Supplementary Table: Complete list of peptides identified by Gel-LC-MS/MS and 2D-LC-MS/MS

Score, MASCOT Probability based MOWSE score; Mass_exp, experimental m/z value; Mr (expt), experi
number of peptides matched to the accession searched; Acc. searched, accession number of the repres

* Red font indicates peptides which occur in more than one accession; Bold **M** indicates oxidised methio

Score	Mass_exp	Mr (expt)	Delta	Peptide*
63.93	599.787741	1197.56	0.01	FGCTEFVNPK
53.56	593.825763	1185.64	0.04	GTFFGNYKPR
48.42	549.830395	1097.65	0.03	IIGIDLNANR
40.97	663.842182	1325.67	0.03	KFGCTEFVNPK
62.19	656.302142	1310.59	0.03	SAESN**M**CDLLR
59.85	711.399602	1420.78	0.06	TDLPNVVELYMK
46.14	944.582232	1887.15	0.13	GSTVAIFGLGAVGLAAAEGAR
38.33	694.36863	1386.72	0.03	LLPDAVGTTCGQR
41.42	602.840815	1203.67	0.03	SIGNGVQFLNR
38.55	633.884988	1265.76	0.09	AADILVNFFEK
39.32	584.630873	1750.87	0.00	AAHLVDSTNQVGHFQK
71.66	637.771686	1273.53	-0.08	ADGFAGVFPEHK
44.66	745.356341	1488.7	-0.01	ADIGIAVDDSTDAAR
140.9	943.445868	1884.88	0.06	D**M**TSYNDLNQLAEEAR
92.32	702.894417	1403.77	0.07	GVDQDTVIL**M**AAR
79	878.405937	1754.8	-0.01	HICGMTGDGVNDAPALK
105.02	779.802751	1557.59	-0.23	IDQSALTGESLPVTK
53.08	539.934002	1616.78	-0.02	KADIGIAVDDSTDAAR
66.66	628.66793	1882.98	0.08	KHICGMTGDGVNDAPALK
42.29	520.81197	1039.61	0.04	LGDIIPADAR
53.36	808.793701	2423.36	0.04	LLEGDPLKIDQSALTGESLPVTK
37.78	715.365794	1428.72	-0.06	LNLFGPNRLEEK
100.62	974.904976	1947.8	0.00	**M**TAIEE**M**AG**M**DVLCSDK
53.84	668.358681	2002.05	0.00	QGEIEAVVIATGVHTFFGK
78.9	695.393783	1388.77	0.07	SLGVAYQQVPDGR
45.67	1001.513218	2001.01	0.04	TENQDAIDATIVGMLADPK
41.01	776.888592	1551.76	-0.09	TIHGLQPAATAAVFR
87.22	978.465374	1954.92	-0.11	WSEEEAAILVPGDIISVK
42.63	636.341263	1906	0.04	ADGFAGVFPEHKYEIVK
38.1	657.05469	1968.14	0.12	AGIQEVHFLPFNPTDKR
57.6	590.295766	1178.58	0.02	DFGTQENQLK
70.79	1105.090536	2208.17	0.03	ESPGGPWQFVGLLPLFDPPR
85.53	702.866598	1403.72	-0.03	GAPEQILNLAHNK
37.05	1031.884126	3092.63	0.10	GDNLEAVLNESVDLENIPLEEVFEHLR
63.22	733.860698	1465.71	-0.02	GLDLETIQQSYTV
52.59	642.797652	1283.58	0.04	GPGDGVYSGSTCK
50.06	628.636257	1882.89	-0.02	HICGMTGDGVNDAPALKK
43.23	779.782872	2336.33	0.10	KESPGGPWQFVGLLPLFDPPR
75.29	581.826312	1161.64	0.03	**M**ITGDQLAIGK
45.17	542.343606	1082.67	0.02	RALNLGVNVK

92.8	776.801319	2327.38	0.09	SASDIVLTEPGLSVIISAVLTSR
87.14	759.38776	1516.76	-0.04	SLGVAYQQVPDGRK
76.15	584.317147	1166.62	0.04	TALTYIDGEGK
44.41	544.313995	1086.61	0.04	VFHVESLEK
56.64	565.333805	1128.65	0.06	AWDLVLEQR
44.96	835.458666	1668.9	0.02	DESIVALPVDELIEK
44.74	542.307019	1082.6	0.02	RGDIIPADAR
65.29	715.344426	1428.67	-0.05	ADIGIAVADATDAAR
53.65	821.347633	1640.78	-0.07	DASLEALPVDELIEK
53.89	721.392382	1440.77	0.03	EVHFLPFNPVDK
66	752.372559	1502.73	0.01	GAPEQILTLCNCK
66.18	740.389349	1478.76	0.04	GLDIDTIQQNYTV
59.87	469.563065	1405.67	-0.14	GVDKDHVLLLAAR
61.84	565.631501	1693.87	0.03	HIVGMTGDGVNDAPALK
108.04	779.338212	1556.66	-0.15	KADIGIAVADATDAAR
44.73	608.31675	1821.93	-0.01	KHIVGMTGDGVNDAPALK
90.55	957.422577	1912.83	-0.07	LG**M**GTN**M**YPSSALLGQNK
93.64	699.293982	1396.57	-0.02	NPGDEVFSGSTCK
67.28	694.312943	2079.92	-0.14	TLHGLQPPEVASNTLFNDK
73.67	970.086056	1938.16	0.11	WGEQEAAILVPGDIISIK
62.44	559.305426	1116.6	0.03	ELSEIAEQAK
79.14	637.352657	1272.69	0.02	ELSEIAEQAKR
94.53	1092.08729	2182.16	0.04	ESAGGPWQFVGLLPLFDPPR
59.37	608.340984	1822	0.06	HIVGMTGDGVNDAPALKK
50.37	717.856445	1433.7	-0.02	IEMFGPNKLEEK
65.09	513.735395	1025.46	-0.09	LGDIVPADAR
43.45	860.966435	1719.92	0.01	LKGLDIDTIQQNYTV
70.1	746.435842	1490.86	0.02	LSVDKNLVEVFTK
41.73	685.362653	2053.07	0.06	RLGMGTNMYPSSALLGQNK
41.53	800.120712	2397.34	0.09	SKESAGGPWQFVGLLPLFDPPR
41.52	563.941255	1688.8	0.01	GTALTYIDADGNWHR
55.07	1115.090494	2228.17	0.05	NEAVDLENIPIEEVFEQLK
43.31	544.859159	1631.56	-0.21	TALTYIDADGNWHR
81.47	995.476731	1988.94	0.02	TENQDAIDAAMVGMLADPK
41	533.297137	1596.87	0.03	EVHFLPFNPVDKR
56.64	565.333805	1128.65	0.06	AWDLVIEQR
63.22	733.860698	1465.71	-0.02	GLDIETIQQSYTV
46.29	568.961886	1703.86	0.04	TALTYVDLADGSWHR
37.75	943.008924	1884	0.09	LG**M**GVN**M**YPSSALLGQSK

53.69	639.796202	1277.58	0.03	AEDDYDYLFK
50.77	637.848992	1273.68	0.08	AQIWDTAGQER
45.26	522.332654	1042.65	0.05	VVLIGDSGVGK
41.39	556.642648	1666.91	0.07	DHTDPNIVV**M**LVGNK
66.98	667.403266	1332.79	0.05	GAVGALLVYDVTR

64.36	711.3733	1420.73	0.04	NALDIGDDPAAPPR
62.78	653.828566	1305.64	0.07	AEEEYDYLFK
43.28	660.403918	1318.79	0.07	GAVGALVVYDVTR
42.59	640.370425	1278.73	0.08	ALDIGDDPAAPPK
53.94	624.044695	1869.11	0.12	AISKKPVASDEGGAGAAGGVK
52.8	645.361291	1288.71	0.08	TINVAAGDANSEK
62.31	649.383821	1296.75	0.09	EAAAASAPLPSQGK

45.42	658.346184	1972.02	0.03	GHYTEGAELIDSVLDVVR
58.55	570.305335	1138.6	-0.09	LAVNLIPFPR
64.09	708.846808	1415.68	0.00	**MM**LTFSVFPSPK
43.04	848.916509	1695.82	-0.01	NSSYFVEWIPNNVK
65.79	716.311938	1430.61	-0.02	VNVYYNEASCGR
41.03	608.363718	1822.07	0.15	EILHIQGGQCGNQIGAK
53.77	634.440069	1266.87	0.08	KLAVNLIPFPR
44.97	873.962258	1745.91	0.04	ALTVPELTQQ**M**WDAK
41.28	817.441368	1632.87	0.08	AVLMDLEPGTMDSVR
37.1	573.825566	1145.64	0.05	FPGQLNSDLR
39.72	546.969987	1637.89	0.05	LHFF**M**VGFAPLTSR
51.32	616.286783	1230.56	-0.01	VSEQFTA**M**FR
57.06	976.490742	1950.97	0.09	**M**ASTFIGNSTSIQE**M**FR
43.55	671.819121	1341.62	-0.01	INVYYNEASGGR
62.9	641.842663	1281.67	0.09	YSGDSDLQLER
43.84	643.383209	1284.75	0.08	SSVCDIPPIGLK
47.37	640.872712	1279.73	0.09	YVGTSDLQLER

41.91	606.957221	1817.85	-0.11	SAQDIALADLPTTHPIR
68.37	604.90267	1207.79	0.18	EAAENTLVAYK
57.85	526.33199	1050.65	0.11	GNEAYVASIK
58.26	595.380811	1188.75	0.09	DSTLIMQLLR
43.54	546.940031	1637.8	-0.06	LLDSHLVPSATAAESK
74.05	772.953369	1543.89	0.09	VEAELSNICAGILR
78.56	709.865656	1417.72	0.02	TVDVEELTVEER
39.54	570.361622	1138.71	0.11	GNEEHVTLIK
45.03	591.662779	1771.97	0.01	AAQDIALADLAPTHPIR
42.14	1054.492567	2106.97	0.01	DNLTLWTSDLTEDGGDEVK
55.47	766.921562	1531.83	0.12	AAGGASGGEELTVEER
72.9	1039.966988	2077.92	0.01	DNLTLWTSDANDDGGDEIK
48.2	605.00599	1812	0.01	AAQDIALAELPPTHPIR

52.98	703.859604	1405.7	0.05	TVDSEELTVEER
43.13	838.004341	1673.99	0.11	ALADEIGIPFLETSAK
45.22	536.343169	1070.67	0.04	LLLIGDSGVGK
64.36	549.80951	1097.6	0.08	AFMTMAGEIK
56.22	658.871669	1315.73	0.08	LQIWDTAGQER
60.23	769.054254	2304.14	0.00	GAHGIIVVYDVTDQESFNNVK
62.13	888.928645	1775.84	0.07	AFADE**M**GIPF**M**ETSAK
45.01	610.327433	1827.96	0.11	NATNVEQAF**M**A**M**AASIK
86.34	819.479797	1636.95	0.09	TNLNVEQVFFSIAR
38.23	833.974191	1665.93	0.09	TNQNVEQVFFTIAR
38.72	641.012955	1920.02	0.10	**M**ASQPATNASKPATVQ**M**R
65.84	538.972023	1613.89	0.07	INKPEGDAEATTLQK
82.59	960.553043	1919.09	0.09	GTATS**M**QLLDSGNLVVLGK
40	540.947501	1619.82	0.02	KLEEGDLQDIFDAK
61.96	941.027058	1880.04	0.10	LGQGGFGSVYLGTLPDGSR
43.52	928.009077	1854	0.08	GYLAPEWLTNYAISEK
51.69	577.800667	1153.59	0.07	SYDPSEISEK
76.41	826.421953	1650.83	-0.03	DIVGSAYYVAPEVLR
70.08	865.950015	1729.89	0.05	GQFGVTYLCTEIASGK
52.62	756.943047	1511.87	0.12	ATDFGLSVFIEEGK
44.92	724.893446	1447.77	0.13	DIISEVDTDNDGR
65.6	679.894444	1357.77	0.07	VIASNLNEEEIK
40.83	553.966672	1658.88	0.07	DGEASDKPIDSAVLSR
40.8	748.292257	1494.57	-0.02	INYEEFCA**MM**R
56.05	1185.518868	2369.02	0.02	Q**M**FTN**M**DTDNSGTITYEELK
51.61	625.347981	1248.68	0.05	TAQNVEEAFIK
54.77	679.353222	1356.69	0.07	AVSYEEGEQFAK
58.34	660.403918	1318.79	0.07	GAAGALLVYDITR
63.23	885.97027	1769.93	0.08	IQDGVFDVSNESYGIK
63.07	775.915244	1549.82	0.06	LQIWDTAGQESFR
49.1	568.355518	1134.7	0.07	YIIIGDTGVGK
54.19	618.361665	1234.71	0.09	TAQNVEEAFVK
91.33	989.475396	1976.94	0.06	TVGGGDDAFNTFFSETGAGK
40.08	501.273936	1000.53	-0.02	DVNAAVATIK
74.54	951.506625	1901	0.10	AVCMISNSTSVVEVFSR
57.28	851.503999	1700.99	0.10	AVFVDLEPTVIDEVR

76.4	737.477709	1472.94	0.08	LVSQVISSLTASLR
58.16	799.927499	1597.84	0.08	TIQFVDWCPTGFK
51.72	936.510748	1871.01	0.08	CGINYQPPSVVPGGDLAK

37.66	740.852813	1479.69	-0.01	DEEGYPAFALVNR
47.62	495.793933	989.57	0.06	DGTTVALWK
43.32	614.806319	1227.6	0.00	GGSVCLAPTNPR
109.74	922.945824	1843.88	0.01	ILPWGDEAYAGGSANAPR
71.55	540.807812	1079.6	0.08	ADEGFSVTVR
68.65	570.287835	1138.56	0.05	ADEGYCVAVR
54.87	633.864653	1265.71	0.04	EGNVVLAPTNPR
42.08	548.947536	1643.82	-0.03	IKDEEGNPAFALVNK
41.28	850.809083	2549.41	0.21	LAPFNPEYPDESVLWTESGDVGK
68.94	1127.096127	2252.18	0.10	LVPYNPGYQDESVLWTESR

48.84	745.882299	1489.75	0.09	ALGWSTGDPCSSPR
54.11	893.501908	1784.99	0.08	LAGTFGYLAPEYAVTGR
60.37	634.355979	1266.7	0.07	**M**GFSGSISPAIGK
47.06	861.970804	1721.93	0.09	NLVSLLGYCLDGNER
78.8	789.908171	1577.8	0.06	NVTNNFSDENVLGR
90.5	748.462913	1494.91	0.07	VTLTNNLLQGPTPK
49.14	625.804115	1249.59	0.04	AWAGVTCDSAGR
64.87	1116.11923	2230.22	0.08	EVAALPALTEVDLSNNNLYGK
51.03	633.705004	1898.09	0.11	GVEYLHSLAQQTFIHR
59.96	748.886122	1495.76	-0.03	DNQLTGPVPDSLLK
60.5	808.097291	2421.27	0.12	ITVAGGNVNGGAAASETYSQASSGPR

91.65	745.356341	1488.7	-0.04	TDALDAAGNTTAAIGK
59.88	508.293919	1014.57	0.04	AADVGADLVGK
59.14	635.388283	1268.76	0.06	AAVIGDTIGDPLK
42.72	629.385788	1256.76	0.06	DTSGPSLNILIK
47.15	592.314363	1773.92	0.04	ERTDALDAAGNTTAAIGK
45.46	586.821584	1171.63	0.03	FTIFNFGAQK
42.09	855.077624	2562.21	0.02	NGGYGDYLIEEEEGLNDHNVVVK
56.81	607.887508	1213.76	0.07	AAISTVDVLTPK
42.62	811.08764	2430.24	0.12	SGPSDYLIEEEEGLNDHNVVSK
39.09	801.729614	2402.17	0.08	DGYGDSLIEEEEGLNDHNVVAK

52.96	608.34874	1214.68	0.04	DAGVIAGLNVMR
57.69	654.887985	1307.76	0.06	EIAEAYLGTTIK
69.49	678.899411	1355.78	0.07	ELEGICNPIIAK
48.91	886.805544	2657.39	0.13	EQVFSTYSDNQPGVLIQVYEGER
57.7	665.334047	1328.65	0.05	FEELN**M**DLFR
71.28	830.428509	1658.84	-0.05	IINEPTAAAIAYGLDK
40.36	596.634091	1786.88	-0.10	IINEPTAAAIAYGLDKK

47	867.824984	2600.45	0.18	NINPDEAVAYGAAVQAAILSGEGNEK
44.06	791.448387	1580.88	0.07	QFAAEEISS**M**VLIK
56.99	730.359816	1458.71	0.04	TTPSYVGFTDSER
73.23	718.911632	1435.81	0.06	VQQLLQDFFNGK
45.14	514.296282	1539.87	0.12	ARFEELNMDLFR
83.22	598.829179	1195.64	0.07	FSDASVQSDIK
73.21	687.872207	1373.73	0.13	NALENYAYN**M**R
59.41	840.978048	1679.94	0.11	NAVVTVPAYFNDSQR
40.71	706.914725	1411.81	0.07	SSVHDVVLVGGSTR
74.31	614.845494	1227.68	0.06	VEIIANDQGNR
48.84	572.345586	1142.68	0.07	FDLSGIPAAPR
45.94	648.868385	1295.72	0.11	FEELNNDLFR
42.41	578.336122	1154.66	0.02	DAGVIAGLNVAR
44.9	754.921707	1507.83	0.10	ITPSWVAFTDSER
54.22	709.819335	1417.62	-0.03	NQLETYVYN**M**K
38.22	671.275173	2010.8	0.00	TGGAPGGGADGEGGVDDEHDEL
57.67	1028.024956	2054.04	0.05	VEIESLFDGTDFSEPLTR
51.83	761.936731	1521.86	0.08	VFSPEEVSA**M**ILGK
100.21	839.422994	1676.83	0.01	NQVA**M**NPINTVFDAK
41.56	737.380965	1472.75	0.07	TTPSYVAFTDSER
42.86	693.891446	1385.77	0.05	ELESICNPIIAK
69.49	678.899411	1355.78	0.07	ELEGLCNPIIAK
38.39	640.895261	1279.78	0.11	EIAEAYLGSTVK
49.5	695.852047	1389.69	0.09	NSLENYAYN**M**R
57	713.917822	1425.82	0.06	STVHDVVLVGGSTR
42.98	737.380965	1472.75	0.07	TTPSYVGFTDTER
37.71	744.39925	1486.78	0.09	TTPSYVAFTDTER
71.28	830.428509	1658.84	-0.05	IINEPTAAAIAYGIDK
40.36	596.634091	1786.88	-0.10	IINEPTAAAIAYGIDKK
42.65	799.927499	1597.84	0.07	QFSAEEISS**M**VLNK
50.95	616.359242	1230.7	0.06	DAGVISGLNVMR
62.2	592.796231	1183.58	0.04	FSDTSVQSDAK
49.67	772.422428	1542.83	0.07	**M**KETAEAYLGSTVK
42.06	634.860805	1267.71	0.08	ETAEAYLGSTVK
54.6	863.501192	2587.48	0.21	SINPDEAVAYGAAVQAAILTGEGNEK

59.35	513.33876	1024.66	0.06	IGGIGTVPVGR
53.63	457.784726	913.55	0.00	QTVAVGVIK
44.66	484.551614	1450.63	-0.03	YYCTVIDAPGHR

80.23	1006.469529	2010.92	0.00	FGYAPLDSFYQSTEASTK
84.8	808.363158	1614.71	-0.10	GQQPLQGDITAANFR
54.46	998.967528	1995.92	-0.10	ISCPITVPASAPNAPAFQR
60.08	627.779953	1253.55	0.04	AVSCLCCPCK

79.2	1030.058433	2058.1	0.10	VGLYYDNVESLALFDGQR
64.66	561.349035	1120.68	0.07	AGIALSDTFVK
59.43	749.974393	1497.93	0.09	VPTVDVSVVDLTVR
62.57	661.341013	1320.67	0.03	DAP**M**FVVGVNEK
54.22	1118.089496	2234.16	0.10	SDVNIVSNASCTTNCLAPLAK
41.78	581.327916	1160.64	0.02	AGIALNDNFVK
62.54	665.325087	1328.64	0.00	YGGGANTLAAGYSK
42.01	552.243274	1102.47	-0.05	AFQSAYFNR
47.2	631.857246	1261.7	0.03	SIGAAVIFNNEK
54.1	711.896007	1421.78	0.06	LPYEDQFLLER
37.11	476.605369	1426.79	-0.01	ASNILLDKDLTPK
47.44	563.276465	1124.54	-0.02	IGEGGFGSVFR
55.97	797.473337	1592.93	0.08	VAGTLGYLAPEYAIR
49.84	557.304765	1112.59	0.04	IGEGGFGSVYK
51.06	694.90065	1387.79	0.05	LPYEDQILLER
61.67	718.37442	1434.73	0.04	ASNVLLDSDYNPK
38.05	785.694579	2354.06	0.02	SGTDSNIYSESYPQTSQPTHR
54.29	870.437581	1738.86	0.09	VVGTYGY**M**APEYA**M**R
50.28	657.331814	1312.65	0.00	LLVYEY**M**PNR
48.24	715.844486	1429.67	-0.05	GLQYLHEDSQLK
53.3	710.386485	1418.76	0.05	ASNVLLDSDFNPK
90.88	747.389493	1492.76	0.07	LFGNDQSQDVTNR
77.9	549.297159	1096.58	0.02	LGEGGFGAVYK
48.15	737.863164	1473.71	0.07	SSVNSDSYSEPFR
38.2	643.360618	1284.71	0.06	LLVYEY**M**PNK
53.71	708.904922	1415.8	0.09	ASNILLDAN**M**NPK
105.59	1138.07196	2274.13	0.12	C**M**VSYSAINFLSGGAGGEDPAR
79.44	739.401826	1476.79	0.06	IFGQDQTQAVTNR
63.94	618.82095	1235.63	-0.03	IVAQELWSYK
70.02	625.325709	1248.64	-0.05	LLVYEFVPNR
51.51	647.388085	1292.76	0.08	SLDLILFDTEK
115.68	839.448799	1676.88	0.06	VYSLAQCTPDLSPAR
45.01	922.418269	1842.82	0.06	W**M**AGTVDE**M**VDPA**M**SR
68.87	719.843275	1437.67	-0.01	YAAGEADFDAALPK
50.2	617.332696	1848.98	0.04	IVAQELWSYKDDIGGR
63.76	773.875028	1545.74	0.01	NGGAKPGVASDESTASV
37.48	943.47394	2827.4	0.17	GDVSASSCLGCLTQAFADLPNACGNSR
42.33	532.272274	1593.79	0.02	RYAAGEADFDAALPK
38.85	483.94406	1448.81	0.02	SLDLILFDTEKR
49.69	752.391048	1502.77	0.06	EVSIVYDSCYLR

67.09	725.877668	1449.74	0.06	LFGGDQTQDVTNR
42.82	810.878854	1619.74	0.00	WWQTFEPNTQGAR
53.8	724.868725	1447.72	0.05	GMQYLHEDSQLK
44.07	618.860869	1235.71	0.06	GSLPHGEEIAVK
53.98	707.753973	2120.24	0.13	LFASGAVGAVPDAVYALALCR
61.63	563.313253	1124.61	0.03	LGEGGFGVVYK
59.64	658.344754	1314.67	0.06	MLVYEYMPNR
57.67	936.98779	1871.96	0.07	SAP**M**SPNEVSITELEPR
62.07	626.339497	1250.66	0.03	SLDTILFDAEK
55.93	562.320146	1122.63	0.05	IGEGGFGPVYK
86.46	1001.513413	2001.01	0.03	FFISANDITGELPSTFSR
60.77	577.82291	1153.63	0.00	LPQQEVEALK
47.62	644.850621	1287.69	0.03	LTGQIPQNFDR
41.16	517.780617	1033.55	0.04	VTDLSGPSMK
46.17	584.359723	1166.7	0.07	IFDVFIQGTK
41.91	623.304386	1244.59	0.01	YSSLFINCGGK
63.02	695.346811	1388.68	0.05	YFATGEESFNPK
40.37	730.396631	1458.78	0.08	SNNILLGEDMEPK
42.77	694.407868	1386.8	0.07	VPEVGWFNAAVAK
49.84	557.304765	1112.59	0.04	LGEGGFGSVYK
47.66	762.920439	1523.83	0.09	NGSLDNFLFDINR
59.81	677.856668	1353.7	0.03	GSTTTTVSAVSTSR
78.6	786.362391	1570.71	0.02	FGTGEVGSDDATYPR
57.42	582.004551	1742.99	0.09	NLVSLVGVCLEQQER
65.79	932.481194	1862.95	0.06	NVIGTYGYMAPEYLTR
58.31	1006.497785	2010.98	0.09	VYSWAQCTPDLTPASCR
52.31	630.848876	1259.68	0.01	GVLPDGYEIAVK
39.29	595.82614	1189.64	0.07	SEQLDWEKR
51.07	658.894161	1315.77	0.06	TCLSTVIGQLPK
97.88	719.348602	1436.68	0.03	IFGGDQSEDVTNR
54.32	656.310968	1965.91	0.04	RYGTGEEEGVDGDSDRPK
55.21	604.280293	1809.82	0.05	YGTGEEEGVDGDSDRPK
43.03	741.922693	1481.83	0.09	ASNILLDFDYSPK
50.28	657.331814	1312.65	0.00	ILVYEY**M**PNR
54.83	673.352702	1344.69	0.05	GATVSGPGDGCVLR
62.06	601.349191	1200.68	0.05	GVLSDGQEVAVK
51.43	893.981183	1785.95	0.09	GTISQFIDQSLDGYSR

41.84	597.337125	1192.66	0.05	AQFSDGSIAAVK
51.4	576.323026	1150.63	0.03	ATNNFSTVIGK
53.73	572.320894	1142.63	0.04	VADFGLAHASR
40.44	747.415523	1492.82	0.06	TGAISFEAVNTDIR
41.68	665.897016	1329.78	0.05	VPLYGGGPTLTAGK

62	1070.514323	2139.01	0.10	G**M**SLEEVSKENVADDEEATA
39.06	641.328702	1280.64	0.06	NAYPAPSYADGR
45.12	606.316709	1210.62	0.05	T**M**NAVEEVFR
81.64	702.353588	1402.69	0.04	VLDTEIQEDADR
37.45	738.917535	1475.82	0.08	AASLVPEADYVWR
76.13	881.984946	1761.96	0.11	AEAVAAGGAGNEWGLFSR
51.38	748.889386	1495.76	0.00	EQIQSYVFDVIR
66.7	596.826881	1191.64	0.06	LNLDDAFEQK
53.47	530.812196	1059.61	0.10	AMNEINAAAR
63.93	818.402261	1634.79	-0.03	DSVLAFSENVPGTTAK
37.46	475.284587	948.55	0.02	YLSGLGIAR
71.37	664.8	1327.59	-0.05	DGLLQGQATTTSH
66.03	796.455024	1590.9	0.07	DSVLGFSVNVPGTTAK
56.79	719.926914	1437.84	0.08	SQIQAYVFDVIR
95.97	811.309292	1620.6	-0.20	DSVLAFSENVPGTSAK
57.79	691.837261	1381.66	-0.08	SSSVFIPHGPGAVK
59.8	605.778385	1209.54	0.01	MNLDDAFEQK
42.56	467.322801	932.63	0.09	YLAGLGIAR
43.71	510.806211	1019.6	0.02	QIAGYLSLR
46.17	504.848353	1007.68	0.04	LGPITIPLGK
91.12	851.971876	1701.93	0.07	IVAAEYLGEGAVEEPR
39.76	762.37557	2284.1	-0.01	WVDASALEYTAGNKPAVYSSR
73.32	840.387755	1678.76	-0.03	GIGAGTFCCGAVGLSPR
78.8	677.890304	1353.77	0.11	AAT**M**SALEELFR
41.95	471.253243	1410.74	0.00	RPFGLFSGEFVR
67.47	616.845419	1231.68	0.02	DIFSAVGWIPK
58.12	819.754794	2456.24	0.12	SLEE**M**SGDAEAQEEAPPPLQTVL
47.83	532.817327	1063.57	0.05	YTALVANNAK
41.49	946.540434	1891.07	0.12	LYDADPA**M**LAALANTGIR
62.25	767.391988	1532.77	0.06	**M**LQAALDWACGPGK
40.92	597.392738	1192.77	0.03	SLDPVLVPLLK
69.69	709.41486	1416.82	0.04	YLQNALVAAALDR
51.73	934.522112	1867.03	0.01	LPIYVVQPQDGLDAIAR
84.95	877.955825	1753.9	-0.02	LQ**M**GQILDVPLPVCR
80.5	620.291267	1238.57	-0.08	YGVTESTLLTR
80.33	833.434144	1664.85	0.04	AETVAVGGESWGLFSR

50.69	823.697516	2468.07	-0.02	G**M**SLEVISQEVADGDDEEAAYPK
61.15	628.261555	1254.51	-0.08	T**M**NALEELYR
61.25	699.382519	1396.75	0.06	VLHTQIEESADR
61.32	593.322702	1184.63	0.03	GVVSTLCFFR

62.49	723.863405	1445.71	-0.04	DIFSAIGWIPEAK
61.54	768.362856	1534.71	-0.03	T**M**SALDELYHIAR
40.76	633.368685	1264.72	0.06	AAAHGYPPGIGVR
59.37	802.909219	1603.8	0.09	SLEEMSRENEVGQP

101.73	941.47792	1880.94	0.05	AAA**M**GGQEANVNTDYILK
41.51	545.930313	1634.77	-0.03	AANIKPDADIDAF**M**K
56.34	644.377611	1286.74	0.05	AIANELAVPFDK
47.71	714.367875	1426.72	-0.06	AQGVADDRLELLK
39.06	863.465449	1724.92	0.01	DALVGLPGVNGLSTEQR
46.91	556.306486	1110.6	0.06	FDMLTELSR
76.32	647.365424	1292.72	0.06	GVADFLQEVTSK
40.99	688.715539	2063.12	0.04	GVSGSFRPGVLTALMGVSGAGK
42.68	553.311183	1104.61	0.00	GVVDVHGLGPR
45.9	593.860527	1185.71	0.06	**M**TLLLGPPGSGK
48.97	856.054525	2565.14	0.02	RP**M**GNGTENDSTIVDDDTEVTQR
74.79	514.812914	1027.61	-0.03	TTLLLALAGR
68.57	546.820602	1091.63	0.06	TTL**M**DVLAGR
68.48	623.356187	1244.7	0.05	VGID**M**PTIEVR
62.63	735.387806	1468.76	0.05	AILPLGGDDGAGDGGGK
37.24	504.931773	1511.77	0.06	EFVSAFQSFHTGR
54.07	665.331369	1328.65	0.01	FEHLEAEAEVR
57.66	955.011205	1908.01	0.03	GMVLPFTPLSLSFDNVR
56.66	711.392497	1420.77	0.01	KGVADFLQEVTSK
53.8	573.271883	1144.53	-0.01	LPEDVDSNTR
38.11	603.011154	1806.01	0.03	QT**M**PVLHDVSGIIKPR
48.76	542.623644	1624.85	0.03	RAILPLGGDDGAGDGGGK
38.48	671.897444	1341.78	0.04	RMTLLLGPPGSGK
46.3	468.268835	1401.78	0.04	RVTTGE**M**LVGPAR
86.72	623.836912	1245.66	0.02	VTTGE**M**LVGPAR
41.63	630.293304	1258.57	0.05	YSVD**M**PQE**M**K
40.89	642.661715	1924.96	0.00	ANLNGEIVGDVHLSSGSTR
61.48	774.427402	1546.84	0.12	EDVLEFFESTGFK
46.41	828.440587	1654.87	0.05	TGGYIEGSINISGYPK
39.06	863.465449	1724.92	0.01	DAIVGLPGVNGLSTEQR
67.62	608.842659	1215.67	0.02	**M**TLLLGPPSSGK
94.73	661.388477	1320.76	0.10	GVADFLQEVTSR
44.69	673.835239	1345.66	0.04	DYDVFSIASSSR
40.17	559.779438	1117.54	0.02	LPSDVDSETR
46.3	468.268835	1401.78	0.04	RVTTGEMIVGPAR
86.72	623.836912	1245.66	0.02	VTTGE**M**IVGPAR
68.48	623.356187	1244.7	0.02	VGLDFPTIEVR

69.58	654.386647	1306.76	0.08	AVADFLQEVTSK
38.48	653.336819	1304.66	0.01	QSVSEEELKEK
42.12	639.683128	1916.03	0.02	HALATSELDNANLLHGIK
48.02	595.326547	1188.64	0.03	QGLTGLSTEQR
69.58	654.386647	1306.76	0.08	GIADFLQEVTSK
43.38	664.336196	1326.66	0.02	ADEVDIANLDPR
85.41	718.847064	1435.68	0.02	AVDGGGDGEGAGSLFK
53.93	849.960792	1697.91	0.01	DALVGLPGVSGLSTEQR
38.79	480.294004	1437.86	0.03	ILNDVNGIIKPSR
65.27	556.32902	1110.64	0.02	LDQVGIELPK
68.63	603.328313	1204.64	0.02	SWLSSGAASLAR
49.73	730.872043	1459.73	0.03	YVSVEEFAQNFK

51.87	623.62684	1867.86	-0.03	EGATEAEVVEAATAANAHK
65.55	650.369425	1298.72	0.03	ATQIAGEAVANVR
71.58	668.344175	1334.67	0.03	SVQEALASSSGSGR
78.61	1058.624362	2115.23	0.18	NPAILLLDEATSALDSESEK
47.68	1071.646586	2141.28	0.19	QAPILLLDEATSALDAESER
57.98	922.567051	1843.12	0.10	QIGLVSQEPALFATTIR
49.66	682.082422	2043.23	0.20	SQDALSDASGIAEQALAQIR
57.06	681.846488	1361.68	0.02	LPDAYNTQVGER

79.23	776.423917	1550.83	0.04	ALNSYSEAIQNTLK
50.01	630.674025	1889	0.04	DSYANAGIIAEQAIAQVR
74.74	989.51742	1977.02	0.04	FYDPNQGQVLLDNVDIK
61.08	533.29081	1064.57	0.01	GSSGAYAALIR
76.28	635.803685	1269.59	0.03	QDVGFFDTDAR
40.06	541.808513	1081.6	0.01	SVFAILNYR
44.31	619.341706	1236.67	0.02	VLSLFCTELR
83.03	608.326396	1214.64	0.01	GVDSIAVVQDGR
59.8	856.412328	1710.81	0.02	IDPDEPETEPVESVR
72.44	886.156983	2655.45	0.09	ILLLDEATSALDAGSENIVQEALDR
63.21	695.836185	1389.66	0.04	NLSYSYSTGADGR
78.65	501.315964	1000.62	0.03	STVIALIER
48.86	657.019989	1968.04	0.09	TRIDPDEPETEPVESVR
65.22	667.874116	1333.73	0.07	TSMIAGEGVSNIR
42.74	579.301046	1734.88	0.04	VAN**M**HGFVSALPEGYK
43.05	564.825677	1127.64	0.07	DFSLFFPAGK
51.68	681.315291	1360.62	-0.02	DGATEEEVIEAAK
89.94	1076.009886	2150.01	0.04	NDVGWFDQEENNSSLVAAR
108.32	938.528783	1875.04	0.09	ESYANAGVVAEQAIAQVR
42.94	541.290367	1080.57	0.01	GSSGAYASLIR
79.09	680.84685	1359.68	0.03	DGATEEEVIQAAK
62.98	990.004895	1978	0.03	FYDPNEGQVLLDNVDIK
60.55	639.310295	1276.61	0.03	IEMISNADNDR

52.08	620.889841	1239.77	0.08	ILSLFSYELR
61.7	653.85055	1305.69	0.05	SSMVAGEGVSNIR
64.58	544.783398	1087.55	0.03	TVYSFAGESK

54.83	674.381686	1346.75	0.07	AAELANAANFIDK
44.86	899.488732	2695.44	0.15	AAELANAANFIDKLPDGYDT**M**VGQR
40.65	507.299029	1518.88	0.03	AKDSAISIFALLDR
38.62	793.687404	2378.04	-0.07	ASNAHEFISSLPQGYDTTVGER
54.26	611.351016	1220.69	0.05	DGVYASLVELR
56.71	1016.535187	2031.06	0.05	DQMGLVGQEPVLFNDTIR
65.38	660.919003	1319.82	0.11	DSAISIFALLDR
68.72	946.567836	1891.12	0.15	FYDPQAGEVLIDGINIK
61.43	984.061686	1966.11	0.12	FYNPESGTILLDEVEIK
104.52	1011.576156	2021.14	0.13	GQASYSDAANVVEQTIGAIK
54.69	896.526156	1791.04	0.05	IGLVSQEPLLF**M**TSIK
164.82	923.541195	1845.07	0.13	ILLLDEATSALDAESER
112.77	937.546765	1873.08	0.11	ILLLDEATSALDVESER
62.64	723.408186	1444.8	0.07	IVQDALDNV**M**VGR
109.29	986.507907	1971	0.08	**M**LYEDASQVATDAVSSIR
75.14	781.905795	1561.8	0.03	MSGDTVLVQDAIGEK
52.08	487.303022	972.59	0.03	STAIALLER
71.74	538.275677	1074.54	0.02	EDATIEEIR
72.59	635.330673	1268.65	0.02	HGDVTEEELIK
61.41	663.861938	1325.71	0.03	KPQIDPDDITGK
42.76	527.819836	1053.63	0.03	KVSFTGLFR
76.85	659.840818	1317.67	0.03	NADCISVVQQGK
42.83	494.945258	1481.81	0.03	RKPQIDPDDITGK
47.74	623.000447	1865.98	0.08	DNITYGKEDATIEEIR
61.75	493.802862	985.59	0.04	LSVDALNVR
37.86	742.978367	1483.94	0.08	LSTIQNADLIAVVK
40.29	632.887516	1263.76	0.08	SAVSSIFAIVDR
45.1	738.85428	1475.69	-0.01	EGEATESEIIEAAK
37.71	707.05768	2118.15	0.07	ENILFGKEEATAEEVVAAAK
54.88	938.528783	1875.04	0.10	ILLLDEATSALDTESER
39.29	613.68691	1838.04	0.03	HIGLVSQEPTLFAGTIR
54.93	522.309744	1042.6	0.03	LAAEAVSNLR
46.75	588.803661	1175.59	0.04	LFEQSQDGPR
45.72	501.315964	1000.62	0.03	STIIGLIER
78.65	501.315964	1000.62	0.03	STVIALLER
40.75	704.8632	1407.71	0.02	VIADAGS**M**TTDLAK
49.67	609.293244	1216.57	0.04	YFSEASSAAER
41.08	771.380931	2311.12	-0.02	ELGPHDELIANDNGLYSSLVR
46.23	723.346387	2167.02	0.03	ENIVYGTETASEAEIEDAAR
53	645.339961	1933	0.03	EQYTRPGAIAEQAVSSAR
46.75	874.014919	1746.02	0.09	LSTIQNCDLITVLEK
64.96	702.894417	1403.77	0.07	VVQEALDLASMGR
61.93	559.811045	1117.61	0.01	TIALVGESGSGK

60.19	603.36137	1204.71	0.06	EFVAEVVSIGR
43.53	557.971746	1670.89	0.03	LHGDFVESEASLVLR
47.86	618.333632	1234.65	0.00	NLVQLLGYCR
63.7	607.382549	1212.75	0.06	VVLVDWVLDR
77.73	558.273828	1114.53	-0.03	AGAITDTVDPR
50.2	696.341382	1390.67	0.02	ASNVLLDAD**M**NGR
37.23	766.39853	1530.78	0.01	GHAFFPSPLQFQR
55.64	568.802569	1135.59	0.01	HYVLGWSFK
47.86	618.333632	1234.65	0.00	NIVQLLGYCR
39.38	467.549368	1399.63	0.01	EDWEVEFGPHR
48.64	610.370425	1218.73	0.07	EFIAEVVSIGR
39.64	696.369028	1390.72	0.07	ASNVLLDGEMNGR
38.62	717.897589	2867.56	0.13	LYDHGVDPQTTHVVGTMGYLAPELVR
37.55	600.344916	1198.68	0.03	TKPVLDWGQR
66.21	545.299402	1088.58	0.05	EGAITDAVDAK
60.19	603.36137	1204.71	0.06	EFVAEVVSLGR

56.04	518.827102	1035.64	0.08	ATIGADFLTK
40.28	613.819941	1225.63	0.03	GNIPYFETSAK
51.78	806.933058	1611.85	0.12	EGFNVEAAFECIAR
43.67	594.310186	1186.61	-0.01	FQSLGVAFYR
108.43	805.435018	1608.86	0.11	DGTNVEEAFQCIVK

100.99	672.315528	1342.62	-0.08	GQQSLVTWATPR
54.92	854.977149	1707.94	0.07	GVQGAQPGPVLDWTQR
93.18	880.491114	1758.97	0.10	IADFNLLNQAPDMAAR
63.77	649.860548	1297.71	0.05	SSNVLLFEDFK
91.05	879.434299	1756.85	0.05	TDNFGSNALIGEGSYGR
49.94	612.991275	1835.95	-0.01	KGVQGAQPGPVLDWTQR
39.75	583.625329	1747.85	0.03	KLDASENEPNDEFLK
83.21	810.891597	1619.77	0.04	LDASENEPNDEFLK
37.17	672.025484	2013.05	0.10	QKTDNFGSNALIGEGSYGR
55.17	776.751934	2327.23	0.11	VLGTFGYHAPEYA**M**TGQLTQK
49.17	656.872425	1311.73	0.06	SSNILLFEDFK
69.73	866.408736	1730.8	0.03	TDDFGSSALIGEGSYGR
69.76	860.441773	1718.87	0.06	VADFNLSNQAPDMAAR
50.1	683.86499	1365.72	0.00	GAQPGPVLSWAQR
63.77	867.893877	1733.77	-0.03	IADFDLSNQAPDMAAR
82.81	784.897233	1567.78	0.05	NFGDEALIGEGSFGR
51.51	711.896007	1421.78	0.07	SSNVLLFDDDVAK
38.02	498.331563	994.65	0.06	ALQPLLNAR

40.03	829.99716	1657.98	0.00	VQPIAVPIIPVDEIR

52.44	563.284429	2249.11	0.01	ALEGDVSLEDLNEGVRPGHSR
57.3	510.81943	1019.62	0.06	ASNILLDFK
69.4	728.0126	2181.02	-0.01	ATDGFSDANLLGQGGFGYVHR
68.34	897.473115	1792.93	0.10	V**M**GTFGYLAPEYASSGK
45.47	569.780066	1137.55	0.04	**M**IACAAACVR
40.46	497.278079	1488.81	0.04	HLVSLVGYCISGGK
56.89	629.821576	1257.63	0.00	STFTYEELLR
40.98	559.781088	2235.1	0.01	ALEGDVSLDDLNEGVRPGHSR

72.08	790.909767	1579.8	0.09	AASYANDISEAESPR
58.49	739.438154	1476.86	0.08	EVIAIASNALDSFK
62.26	823.002053	1643.99	0.10	GYVEAVLNSLAANVPK
56.79	968.062068	1934.11	0.11	IVLEADGYQPYLISPEK
37.14	570.337239	1138.66	-0.01	LPNLLSGLQGK
45.02	563.344943	1124.68	0.06	LVDLPGIDQR
41.96	735.07049	2202.19	0.01	SAVLNSLIGHPVLPTGENGATR
83.44	891.040991	1780.07	0.08	VLLDIVNASANATPGLGR
38.23	728.734498	2183.18	0.13	AKEDMLNQLYSSISGQSNAK
46.79	505.819896	1009.63	0.03	APIVVDLQR
45.96	497.273058	1488.8	0.06	FLAHITSGEGSGWK
88.3	682.860821	1363.71	0.07	LGESMVQSAEGTR
66.88	922.441861	1842.87	0.05	QAASLLADDDPSDDSAPR
54.7	591.366911	1771.08	0.10	RPSTFLNAVALGNVGAGK
95.26	821.88854	1641.76	0.08	SAFDSASNGPSSGSESR
55.58	596.815728	1191.62	0.06	SQMVQDELAR
49.04	659.397221	1316.78	0.07	TIACVQALLSNK

59.53	691.406774	1380.8	0.09	LFSESAESITGLK
58.93	700.890163	1399.77	0.01	SINLLGVQQICR
69.3	678.399543	1354.78	0.06	EGLQAVGALQDVR
80.11	783.461087	1564.91	0.06	HVLSLLDQVEDVAK
40.75	494.763818	987.51	0.04	IDEGWAAAR
47.89	850.462019	1698.91	0.08	ITDAAITAPNEGQGWR
55.19	580.844713	1159.67	0.07	LVNS**M**QPLSR
68.42	558.335569	1114.66	0.06	VAAAGAVICQR
39.66	593.296345	1184.58	0.03	DGSEGLSFAFR
41.8	843.440405	1684.87	0.07	LGESFINSSTMLENK
57.83	849.435574	1696.86	-0.02	NYVFGGISSVAANASIK
55.15	562.30456	1122.59	0.03	SLASLANEYR

70.5	918.365975	1834.72	-0.05	DGDIEMGMQADPSDNLK
107.45	736.425952	1470.84	0.07	GQILDTVAEIQER
67.7	593.863654	1185.71	0.02	KVDAIESLIAK
92.42	831.365582	1660.72	-0.10	SEQIFQEAIQQQGR
38.4	812.381788	2434.12	-0.07	VFTVTGSRPDEETVDNLIETGR

46.98	649.839687	1297.66	0.01	EIDIGVPDEVGR
51.22	723.947277	1445.88	0.06	IVSQLLTLMDGLK
71.77	922.049672	1842.08	0.11	NAPSIIFIDEIDSIAPK
68.42	594.337869	1186.66	0.03	TALGTSNPSALR
76.61	782.927227	1563.84	0.07	AIANECQANFISVK
41.04	684.67847	2051.01	0.11	EDEERLDEVGYDDVGGVR
37	697.332226	1392.65	0.00	LDEVGYDDVGGVR
63.01	720.860001	1439.71	-0.01	YQAFAQTLQQSR
42.91	923.459996	1844.91	0.07	YTQGFSGADITEICQR
40.4	588.633642	1762.88	0.14	DATNDFEDIGHSESAR
46.77	554.64095	1660.9	0.04	KVFGFEEVAGHNVTK
60.2	759.958942	1517.9	0.07	YLIGEIDASTIPVK
40.12	709.864209	1417.71	0.06	ESAMDVPTNLDAR
67.39	836.411716	1670.81	0.05	GGGESSPSPAAGAGAAASGGR
48.18	549.307596	1096.6	0.04	LMTTYPSLR
49.66	565.307128	1128.6	0.06	MLFNQAFSR
59.65	894.460587	1786.91	0.03	AADLLNDESPLLTQCK
66.44	717.419871	1432.83	0.07	DVGLNQISLFEAK
40.62	665.66972	1993.99	-0.01	IEVDQAILETHNQVEEK
41.13	595.891628	1189.77	0.06	NIIYTLVVGAK
50.19	823.743197	2468.21	0.09	VRGTDDIEEEYNDLVAASEESK
56.25	569.311417	1136.61	0.02	FGFSGVADIPK
122.48	1107.458726	2212.9	-0.05	GTDDIEEEYNDLVAASEESK
41.24	499.822259	997.63	0.07	QAVDISPLR
55.9	710.400797	1418.79	0.00	VNQAIYLLTTGAR
82.37	816.474004	1630.93	0.11	TIAECLADELINAAK
57.66	619.869877	1237.73	0.05	ALYAAIEGFVGK
87.44	618.351843	1234.69	0.03	LAGSLETLEFR
67.74	941.095364	1880.18	0.10	LVLSGNGLSGQIPASLGGLK
54.45	725.874084	1449.73	-0.06	TNPGLTGPIPASLGR
57.49	547.774579	1093.53	-0.05	FSPQLFDLK
37.16	594.829748	1187.64	0.10	**M**LESDDPIPR
38.02	762.465395	1522.92	0.04	ASANIPITQIPAISK
50.95	598.884839	1195.76	0.06	GQLINGTPVAVK
42.86	726.861837	1451.71	0.03	SSNILIDDDFDAK
97.21	768.37921	1534.74	0.02	GIGFVSDDVGLDADR

40.71	660.38103	1978.12	0.14	TQVTVEYLNDAGAMVPVR
38.98	774.026271	2319.06	0.02	LCDQVSDAVLDACLAQDPDSK
72.48	652.340644	1302.67	-0.02	GLAGNLSSALASSR
44.13	706.039717	2115.1	0.04	TGGGLTSRPDVDALWDSAVAK
44.67	772.772902	2315.3	0.05	AVDAIDRDLASGPEPLPLPTLR
38.72	678.667138	2032.98	0.02	ACEFFTGHAAQLCGVPLR
42.09	788.451586	1574.89	0.02	DLASGPEPLPLPTLR
63.07	742.347299	1482.68	0.05	DSSESYFSTFGTR
66.19	726.393673	1450.77	0.04	FNASAVTGIDTDLK
38.63	557.836192	1113.66	0.00	**M**LLSLVPAVR
41.59	557.839337	1113.66	0.02	AVLGDGSVVAVK
47.13	663.348053	1324.68	0.05	MVFLEDVSSGGGK
53.05	1145.611013	2289.21	0.08	IVYSSSPYGATGVVTAAGGTFER
91.67	900.50407	1798.99	0.09	LADCGLAQLGSSPAAAAAR
55.15	935.584271	1869.15	0.12	LVLEGFGLSGDAALPALAR
50.83	713.39391	1424.77	0.06	NGAVGWIPDNLNR
59.35	828.323353	1654.63	-0.06	ACPYILANECCER
68.05	514.316919	1026.62	0.00	IAQVLVASAR
54.01	650.889251	1299.76	0.11	KWGVEVPADGSR
54.3	660.388207	1318.76	0.08	LCTVTQVEELK
38.74	900.418602	1798.82	0.00	LAYYG**M**STNLVNY**M**K
37.33	591.887063	1181.76	0.08	APLGENTVLLR
83.96	939.019984	1876.03	0.07	IVNAGGECLTFDQLALR
41.6	534.813469	1067.61	0.05	YGVSGFPTLK
37.8	627.677615	1880.01	0.09	TAEALAEYVNSEAATNVK
43.45	906.567901	1811.12	0.12	GQLTSEAGIVESLAPLVK
90.18	617.315316	1232.62	-0.01	AAGGFGGITVNNR
39.59	807.86944	1613.72	0.00	ASGPLPDPPNDEYDK
73.69	958.070315	1914.13	0.16	DQIGSFFYFPPLSLQR
59.35	1039.599217	2077.18	0.16	GVYTLDFPTMPIDGPPVMK
104.55	1001.516751	2001.05	0.07	TENLDTWYLGQETYIR
55.17	861.944655	1721.87	0.05	TTLSGISFSPPDTPMR
79	690.37671	1378.74	-0.01	VTGVAILQYSNSK
48.87	669.394856	1336.78	0.03	LRNEPPVTINGK
42.19	688.645423	2062.91	-0.08	IQNHNLALVETEGSYT**M**K
40.57	788.006886	1574	0.09	LLILGSPGAGTSTIFK
57.11	815.373169	1628.73	-0.03	EFDDVSEQYVAVTK

90.65	562.362387	1122.71	0.05	ILLLDASPPGK
68.14	661.7	1321.39	-0.17	GEGMSAVADSGEGR
59.85	638.309742	1911.91	0.08	LG**M**EKGEG**M**SAVADSGEGR
86.13	811.924912	1621.84	0.06	CIGA**M**IGFAAASAGPGR
52.47	602.825493	1203.64	0.03	ELVLLEDDMK
38.1	1005.465924	3013.38	-0.04	HLSSAVETFPNSFTSFSTGQPCISTSPK
38.54	1037.436259	2072.86	-0.05	QCAAYTAPANSQTTWT**M**R
50.64	815.901492	1629.79	0.02	QDLPNAMNAAEITDK
58.19	545.342876	1088.67	0.05	DAVLLVFANK
39.61	581.854153	1161.69	0.05	LVFLGDQSVGK
56.22	658.871669	1315.73	0.08	LQLWDTAGQER
38.71	655.84716	1309.68	0.02	DLGVMFIETSAK
57.17	800.889262	1599.76	0.03	ALTSSSTSNSE**M**LEK
67.01	661.860751	1321.71	0.01	SNLQYASLSALR
46.97	737.417243	1472.82	0.06	AVQGVEFSDPVAVR
85.1	702.410433	1402.81	0.06	DVGLNQIALFEGK
58.45	754.395665	1506.78	0.05	ESAVFSGNLGELER
75.59	587.345452	1172.68	0.06	LPATFSVPDAR
57.83	611.373038	1220.73	0.07	VAYVDIVESVK
91.27	765.378338	1528.74	0.04	AADEIQDEDPTVAR
74.05	565.328304	1128.64	0.04	AAISALQYHR
44.65	639.843078	1277.67	0.02	FAPFWNEIVR
86.93	1158.53946	2315.06	0.03	GNAVQTID**M**NQDNYFEEALK
48.15	767.720841	2300.14	0.06	ILCEHAYTLAQNLDPNSEGR
88.97	593.838575	1185.66	0.05	VAGGNGEQVLSR
45.42	548.295818	1094.58	0.01	LLFNQAFSR
65.81	764.421816	1526.83	0.07	NEDGISTLFYLQK
44.49	562.691102	1685.05	0.05	IAAIGAVQHELVVPLR
45.24	766.417729	1530.82	0.05	YNALTGPIPDDLSR
37.74	620.823754	1239.63	0.06	FSGEISPDFNK
60.97	905.026591	1808.04	0.10	LGTLFLDGNSFTGEIPK
38.92	573.296213	1716.87	-0.01	APTHAVVNEEGLDLPR
62.93	592.849453	1183.68	0.07	AFDLGGHQIAR
41.71	580.885075	1159.76	0.10	ILFLGLDNAGK
57.2	753.393023	1504.77	0.03	IDIPYAASEEELR
39.19	682.363581	1362.71	0.03	YYLGLSNFTTGK

74.03	665.92	1329.83	0.09	AALLDFLAGLGGGR
60.06	581.8484	1161.68	0.00	LPGLGLSGPVPR
57.43	557.363002	1112.71	0.02	LTALQVLSLR
58.76	727.853444	1453.69	0.04	SLGYCAPEVTDSR
44.73	587.996533	1760.97	0.01	SPVQITGGGNEVVHLVR
58.27	616.868851	1231.72	0.07	AIAVDEFAGIAR
73.88	558.367075	1114.72	0.06	VGLTLIDTGVK
41.56	601.627795	1801.86	-0.02	DVHSDALCNGSLVIFR
42.75	633.884988	1265.76	0.07	VVSIISTSEFGK
61.06	770.973688	1539.93	0.09	AVLDAATIAGLCPLR
39.91	494.264902	1479.77	0.03	VSEGPDGFPLVHAR
47.54	628.971925	1883.89	0.08	APADAAADGAENGAPNSEEK
51.5	726.884367	1451.75	0.05	FIGTAGAASSTMNPK
56.23	595.869886	1189.73	0.05	LSFQLSTPLGK
50.14	603.890267	1205.77	0.09	FFLGIGLPGSAK
52.7	916.936096	1831.86	-0.02	AEIGISDNDAGTVESVQK
48.32	743.816159	1485.62	0.02	SYDDGTFYFDEK
42.99	725.733699	2174.18	0.11	VDKAEIGISDNDAGTVESVQK
71.55	772.45821	1542.9	0.06	VEVTTVFGSAAPPLR
68.73	629.877457	1542.9	0.06	VNLVQVLGSDSK
40.17	647.422078	1292.83	0.06	VADIPQTIPLVK
59.19	876.059652	2625.16	-0.05	LVISSPQSSNSGIVYGSEEDESDAR
54.11	776.957583	1551.9	0.09	LFGADL**M**AIPGLYR
46.78	746.867762	1491.72	0.06	SNLNPEWNEDFK
45.92	752.354171	1502.69	0.00	FLE**MM**WPYLNK
58.79	571.004709	1709.99	0.02	TALDIAKPIIEENRK
56.1	962.527722	1923.04	0.09	VYVTEEQELI**M**EPSLK
41.75	649.375499	1296.74	0.02	WAANPNVTVVVK
45.95	712.395133	1422.78	0.06	FVENIWPYLDK
53.26	487.322683	972.63	0.06	IG**M**SVIPLK
37.05	649.375499	1296.74	0.02	WAGNPNITVVVK
88.04	948.514379	1895.01	0.09	VYTTDEQELIMEPSIK
66.91	990.021787	1978.03	0.09	ETGATPDNAQTYNTNLIR
51.73	642.412149	1282.81	0.05	VVQLIQQQSLK
38.25	774.132104	2319.37	0.13	NADDLPAPDKVVQLIQQQSLK
42.19	646.346075	1290.68	0.05	IMVTETGWPNK
41.12	495.612231	1483.81	-0.02	ITISSTHSLGILSR
38.13	597.349201	1192.68	0.05	IYDTNIDVIK

56.76	541.787782	1081.56	0.01	VLFNEAFSR
45.62	640.699429	1919.08	0.09	AAVEALSHASDFPAPPLAR
40.51	497.24062	1488.7	0.05	DS**M**DDVPKNPEAR
44.4	739.423171	2215.25	0.06	EGLALSRPTESQLLFQDAIK
60.35	676.824134	1351.63	0.06	EG**M**ASDDGIWAGK
65.67	726.381671	1450.75	0.04	DVGLNQISMFEAK
38.79	497.30787	1488.9	0.02	EHLVLLLANAQLR
48.98	573.377614	1144.74	0.06	VVTPIYNVLK
75.41	585.835894	1169.66	0.02	LNVGGQAISPSK
45.68	820.972005	1639.93	0.09	VSAAPFTYSFPLGAGR
57.16	955.549503	1909.08	0.13	AATNNFDESLLLGVGGFGK
52.75	674.395498	1346.78	0.02	GILDQIVDPHLK
51.93	940.03008	1878.05	0.11	SPASPSSSSSGAPLLVYGSK
64.09	507.309781	1012.61	0.00	TVVGLNAIAR
55.48	528.293591	1054.57	0.06	EEFAAYVAR
53.27	535.843866	1069.67	0.05	NGVLAVQTLR
43.24	671.356051	1340.7	0.09	WVTV**MM**ANTEK
62.95	569.28446	1136.55	0.02	LDGEDSVFQK
55.57	760.425518	1518.84	0.08	TDAAAAFLASLEDPK
46.92	733.431958	2197.27	0.13	EAAAVAAQAAAAAASAASAATVQVR
48.61	499.615451	1495.82	0.01	SALLAFLAATPHER
50.6	874.029668	1746.04	0.04	ILGGIPDDVLQLPQLR
54.96	794.500137	1586.99	0.04	LPGVGLIGAIPPGTLGR
77.55	609.348292	1216.68	0.07	STTAAAAGAGAAAAR
66.14	578.855362	1155.7	0.00	LTNLQVLSLR
41.23	794.407799	1586.8	0.05	VDAIEYYTSEIER
44.66	590.321897	1178.63	-0.02	SVVPAAFVSFR
50.72	642.378288	1282.74	0.09	SLDLFLFDASR
38.13	570.787781	1139.56	0.04	ATNYFDPANK
47.58	563.805026	1125.6	0.01	LGQGSYGAVFK
37.06	550.784913	1099.56	0.04	LYLDGCFGR
39.77	548.802771	1095.59	0.02	DIEAHVASVR
37.91	708.904922	1415.8	0.08	FQQSIAPGGLAGDR
39.87	647.909405	1293.8	0.08	TPLENLEPILR
43.89	855.445979	1708.88	0.07	SIQSFDPLASSSWER

55.93	562.320146	1122.63	0.05	LGEGGFGPVYK
45.92	829.491965	1656.97	0.09	SVTLPAPSAPAFVSASR
49.03	766.92328	1531.83	0.10	FEVYPFFDAQAAK
46.95	727.426234	1452.84	0.09	GSESLLYDLSTLR
67.52	626.384078	1250.75	0.06	ILVYEYLPNK

39.83	486.255737	1455.75	0.05	EAEDRGDPVEIAR
47.59	1043.55156	2085.09	0.10	TSNLNEELGQVEYIFSDK
48.85	547.826691	1093.64	0.02	YNVLTFLPK
39.25	704.418283	1406.82	0.08	QFIISSETDVIR

76.1	730.407957	1458.8	0.08	AGLQDGAAALSGWSR
87.76	594.352819	1186.69	0.04	AELSSGQVVAVK
50.17	775.890435	1549.77	0.09	**M**SSLESVDFSYNR

47.41	515.253489	1542.74	-0.07	GTIGHIAPEYLSTGK
91.41	831.956337	1661.9	0.10	LANDDDV**M**LLDWVK
86.36	1011.15129	2020.29	0.16	VDLGNAQLSGALVPQLGQLK
64.72	683.327459	1364.64	-0.02	ELQVATDNFSNK
38.95	721.350087	1440.69	0.04	GLSYLHDHCDPK
48.8	816.921471	1631.83	0.06	HNDWIVDSTYNLR
67.99	486.779545	971.54	-0.02	LADGSLVAVK
53.76	820.96135	1639.91	0.07	LLVYPYMANGSVASR
55.9	545.788275	1089.56	0.05	MLEGDGLAER
45.72	740.89288	1479.77	0.06	QPNDPPLEWQTR
53.92	798.091415	2391.25	0.13	TPGGELQFQTEVEMISMAVHR
61.59	997.630838	1993.25	0.13	VDLGNAALSGTLVPQLGQLK
62.36	676.870283	1351.73	0.06	ELQVATDTFSNK

69.01	764.446441	1526.88	0.08	GIVDSEDLPLNISR
68.39	636.870881	1271.73	0.04	SDLVNNLGTIAR

48.54	645.973609	1934.9	-0.02	DHNYSALQQYGGISGVAR
56.57	588.82496	1175.64	0.05	GAAEIILDSCK
39.28	563.773306	1125.53	0.01	NAFGSNTYPR
54.71	808.804076	2423.39	0.13	AIALECGILSDPNVSEPVIIEGK
61.44	730.887931	1459.76	0.05	ALSDLEREEAAEK
44.19	770.947046	1539.88	0.05	EVAAPPVDGALGFGIK
54.61	620.324056	1238.63	0.04	FIEDMAASSLR
66.82	603.809604	1205.6	0.05	GISGDDSDLTAR
69.49	603.328223	1204.64	0.05	MVTGDNLQTAR
49.01	521.818952	1041.62	0.03	QAALVLNASR
44.58	947.005631	1892	0.04	ESSDIIILDDNFASVVR
50.07	739.401826	1476.79	0.07	QSLQFQNLNEEK

43.18	802.915325	1603.82	0.07	NLDLNYVPNEEER
65.08	749.361453	1496.71	-0.01	DNEGSTPPPPPPPPV
46.64	638.355206	1274.7	0.07	EAVADQISVMGR
37.07	482.249851	1443.73	-0.01	SSIIHVSPFNSEK
45.99	725.43381	1448.85	0.09	TGTLTLNQMTVVR
71.49	657.876366	1313.74	0.04	GISLNADDLLQR
78.13	513.82318	1025.63	0.04	VSALELAAPR
41.49	454.516019	1360.53	-0.10	SKYTYEAESAGR
46.17	581.793288	1161.57	-0.01	SLFYNISYR
61.33	669.339839	1336.67	-0.02	LGQGGFGNVYLGR
47.35	919.998864	1837.98	0.06	SVLGTAGYIDPEFVNTR
64.23	610.30492	1218.6	0.03	AMNVLQSDDAR
108.69	1008.024196	2014.03	0.10	E**M**YEQASTIASDAISNIR
39.67	952.453726	1902.89	0.02	FYDPDSGAIFLDGMDLK
38.94	964.504428	1926.99	0.09	FYDPQSGEVLLDGVN**M**K
61.93	894.567139	1787.12	0.10	IGLVSQEPILFTTTIR
67.13	722.701683	2165.08	0.05	QDQVSEEEIVAVAEAANAHR
45.32	985.095717	1968.18	0.10	QQIGLVGQEPVLFNGTIR
57.5	826.980022	1651.95	0.10	SGLVLENFVGDVEFK
74.16	924.515852	1847.02	0.10	VLLLDEATSALDSESER
75.81	668.298127	1334.58	0.02	IDASSDDGMAPEK
75.71	533.27657	1064.54	0.01	LSDAGNFVSR
55.86	563.303934	1124.59	0.00	NADTISVLHR
61.5	589.798188	1177.58	0.05	NGTYELDPNR
52.1	525.299982	1048.59	0.03	VQDAAASIFK
73.31	981.406753	1960.8	-0.03	EAVSDDSGEPLWADADER
45.28	782.682926	3126.7	0.10	TGHNAVTTHIVGTQGYIAPEYLADGLVTTK
57.54	489.602115	1465.78	0.02	RPSMVDVAYTLSK
46.18	693.903177	1385.79	0.05	ASNVLLDTDLTPK
65.62	647.365424	1292.72	0.06	LSGNLEAIDFSK
46.19	683.8417	1365.67	-0.02	NILGEGGYGPVYK
74.12	770.961323	1539.91	0.08	TDPVEAAALNTILGR
48.64	830.431697	1658.85	0.04	IAGTFGYLAPEYAMR
42.88	602.344297	1804.01	0.07	SQFITEVTTISSVQHK
42.96	813.972941	1625.93	0.01	YLALPFNPLSGPLPK
48.64	830.431697	1658.85	0.07	IAGT**M**GYLAPEYAMR
62.59	648.88461	1295.75	0.07	LGENQLAGEIPR

48.97	563.847322	1125.68	-0.01	LLLLGNALSGR
41.54	520.306778	1038.6	0.02	LAGEVPGALGR
81.76	722.421344	1442.83	0.01	LILSGNMLSGTLPK
80.19	850.339024	1698.66	-0.01	FDTSDGNFDDEYFK
64.77	715.870084	1429.73	0.03	LNGANVAGEDPFAR
54.54	528.81015	1055.61	0.04	SDLVAALPDR
42.85	595.30855	1188.6	0.00	IQSIPDGSSSAK
57.5	578.861004	1155.71	0.05	ATVVALNAEIR
45.22	865.46863	1728.92	0.04	QDEGLDIIGEGLETLK
87.9	676.360678	1350.71	0.06	LADCLDYVTPGK
37.23	562.959118	1685.86	0.04	ALHLPAACGADASAFSK
40.42	779.379995	1556.75	0.05	DSAAVGCLCAAFTSK
47.41	775.902839	1549.79	0.07	GWNPDVDYTAWVK
37.48	921.39127	1840.77	-0.01	SDVVQVDEVGYDNCDK
39.85	525.788737	1049.56	0.03	GHSYAFQLK
44.97	749.352417	1496.69	-0.01	GDWLLFEYQNGR
67.4	737.937333	1473.86	0.08	LLNLAFQCAAPTR
48.05	713.953055	1425.89	0.06	VGSVNLTVQQILR
43.01	598.381603	1194.75	0.05	AVLPDGQVVAVK
51.01	629.855104	1257.7	0.06	EVGEQLWEIR
42.65	744.958259	1487.9	0.07	IIITEYVPNGTLR
61.29	578.314703	1154.61	0.04	LGEGGFGTVYR
47.73	639.315251	1276.62	0.00	FNPAADNPLYR
59.6	581.338653	1160.66	0.06	IDGPAAYDVLK
60.98	754.420128	1506.83	0.08	ITAFIGGLDLCDGR
38.55	751.688701	2252.04	0.04	DLDTVFDNDYHNPTFPSGAK
38.21	750.870922	1499.73	0.03	EGDLPEIELDEGGK
41.39	628.692083	1883.05	0.05	FAVPLAHYAAALEFHVK
42	571.343677	1711.01	0.04	FTAEQLITLQGHLLK
39.8	627.843789	1253.67	0.02	HSSVICVLSPR
46.89	723.391152	1444.77	0.02	ILGAPTSLPDTLT**M**
64.5	1062.59235	2123.17	0.04	ISWILSPSPTIPNDDISLR
49.35	647.386124	2585.52	0.10	LVREPSPSRPLPEGGDLNLGELLK
55.72	623.377407	1867.11	0.04	RFTAEQLITLQGHLLK
46.34	574.306568	1146.6	0.02	VCLLVWDDK
41.34	633.334314	1264.65	0.03	VTLYQDAHYR
40.49	788.969751	1575.92	0.09	SALASVIMGMAPVLGK
41.95	794.703905	2381.09	0.01	YMVANQLYELCEAVGPEHSR
73.99	836.458087	1670.9	0.08	**M**TTAQAIDTLVNSYK
39.46	564.240658	1126.47	-0.04	STDGFPFGSGR

51.57	508.836815	1015.66	0.09	STLLDALAGR
40.56	643.857714	1285.7	0.02	SSFAPPPFLPAR
48.19	743.913325	1485.81	0.05	A**M**PGAAAALIGDVSAR
38.76	539.828267	1077.64	0.01	HVVAPFALPK
42.54	918.108805	1834.2	0.11	LPPSVSNLVNLQSLILK
64.31	630.391104	1258.77	0.05	AIVSIVGESSIGK
45.8	621.655726	1861.95	0.10	DVAFEAEDALDDFLHR
50.31	608.831743	1215.65	0.04	EQLIDDAVTGR
40.83	560.294477	1118.57	0.04	SVVCDLVDGR
52.03	568.854581	1135.69	0.03	VIDIHGLELK
37.61	677.867115	1353.72	0.06	LSPENTYEVFR
73.28	713.370122	1424.73	0.07	LFDAGEDTMSALR
65.11	1106.06056	2210.11	0.12	LSDSISYACSLADCTSLGYK
54.48	967.423066	2899.25	0.01	NDQDDVACGFSNLATITGQDPSTGTCR
38.35	657.854678	1313.69	0.05	ADLNVPLDDSQK
38.32	601.637124	1801.89	0.00	**M**SHISTGGGASLELLEGK
62.75	521.859274	1041.7	0.06	IGVIESLLAK
49.76	694.90065	1387.79	0.05	ELDYLVGAVANPK
64.45	813.422929	1624.83	0.06	LTDYESPGGEAAFLR
62.33	745.395891	1488.78	0.08	WEEWQQVEVTR
47.55	603.847128	1205.68	0.00	YLTVLSLAGNR
49.13	626.341368	1250.67	-0.03	EVELISVAVHR
39.53	556.316989	1665.93	0.08	LEEEDDVLLLDHVK
66.27	529.30998	1056.61	0.05	EGQLGAIVDR
40.84	716.4307	1430.85	0.06	LSGSIPGSLFQVAR
58.06	871.554711	1741.09	0.12	IGELQFLNVLSLPGNK
67.29	700.417235	1398.82	0.04	VVEIYEAAPAPLK
44.61	816.995801	1631.98	0.08	VGPALLSGPVFATFEK
44.37	560.294477	1118.57	0.07	EGALAEENMR
44.52	694.33891	1386.66	0.00	GFVQFCYEPIK
45.86	712.882544	1423.75	0.07	LWGENFFDPATK
127.17	894.395979	1786.78	-0.10	AVTDGADVIDCPVQVTK
58.01	593.778277	1185.54	-0.04	DGAGICLPDIR
52.22	575.943499	1724.81	-0.08	GAGVDGIITDFPATVHR
47.36	730.323711	1458.63	-0.05	ISNP**M**TTFDVYR
57.24	559.356669	1116.7	0.04	LGFGVVDAVIK

54.94	506.250154	1010.49	-0.06	LSDFLAFAK
49.83	516.801996	1031.59	-0.01	TFASGILVPK
72.02	581.773211	1161.53	-0.12	VNLVQSLFSR
81.33	780.412218	1558.81	0.08	YNLVY**M**LEEDVR
51.17	544.313995	1086.61	0.06	DAAPSSLADIK
60.95	608.348306	1214.68	0.03	DAAPSSLADIKK
37.02	655.035342	1962.08	0.13	ELSGVMISIEHAAFMAEK
59.89	716.726837	2147.16	0.08	GKELSGVMISIEHAAFMAEK
62.27	618.694707	1853.06	0.08	KGAGVDGIITDFPATVHR
53.47	899.138296	2694.39	0.11	KTYSVNGVSTPGWFSVDYDSTGLSK
40.57	911.492117	2731.45	0.13	NYIWPVTQDNYLQPSTSVVGDAHK
103.65	1180.656965	2359.3	0.13	QYIADYISSPEVNFLTSLSGR
51.32	591.312766	1180.61	-0.07	TLSGNPPAIIAK
81.14	1284.157723	2566.3	0.11	TYSVNGVSTPGWFSVDYDSTGLSK
68.25	1193.20679	2384.4	0.17	VPYYDGTLPILPVESVFANYK

54.54	539.799493	1077.58	0.00	TGYLTLASPR
47.49	702.273024	1402.53	-0.06	NGGADDPDATSVER
91.35	1139.108795	2276.2	0.09	AFSNIGTSGTEYPAPYAIVYR
68.01	754.909472	1507.8	0.06	NFPTLGLEAYNNR

74.22	680.396016	1358.78	0.08	ANMLAAEAVSNIR
78.85	638.31985	1274.63	0.03	DGATEAEVVDAAK
37.91	565.979876	1694.92	0.08	IVETGTHEQLMANPR
37.89	638.872224	1275.73	0.06	LYADELKEPAK
69.4	629.865709	1257.72	0.06	NADVISVLQDGK
38.34	720.403522	1438.79	0.06	TAAYPIFQMIER
45.23	554.312708	1106.61	0.05	TVQAFVGEEK
44.96	678.887808	1355.76	0.06	AGEIAEEVIGNVR
66.38	1058.624362	2115.23	0.18	NPSILLLDEATSALDAESEK
46.61	501.329593	1000.64	0.02	STVLSLILR

56.13	738.812172	1475.61	-0.06	LAEQGDNCAETIR
62.68	777.912599	1553.81	-0.01	SLVVLNLYNYGSGR
45.73	670.328629	1338.64	0.05	AYVQ**M**DGEPWK

85.64	892.490526	1782.97	0.09	ATAAQQYDSSPFLSGLK
64.35	664.438383	1326.86	0.08	LAAVTSLSSLLPR
93.81	701.866384	1401.72	0.03	AGASQDQILNETR
54.36	528.646625	1582.92	0.05	LAGDKLVDGEGALAVR
68.69	550.335732	1098.66	0.05	LVDGEGALAVR
97.59	851.488281	1700.96	0.10	QSSALLQALQQCAAGR
44.99	599.385957	1196.76	0.07	VTVYPIVHAAK

43.21	566.318952	1130.62	0.03	LPTFTPEQAK
38.29	545.244329	1632.71	-0.11	IVAALGHDTGTDPPNR
46.65	554.288037	1106.56	-0.01	KYEGWLSPK

37.95	561.770561	1121.53	-0.07	YKEDVDLLK
42.48	701.926616	1401.84	0.08	FGIVYVDFTTLK
62.51	1044.601987	2087.19	0.13	VNTEGVAYYNNLIDYVIK
38.88	552.306064	1653.9	0.03	SQHTADVVSLLSEIR
83.43	679.433265	1356.85	0.05	VTSISGVLFPLPK
110.69	916.963751	1831.91	0.06	AVGSAENNTVPSEATTER
69.6	742.429216	1482.84	0.04	GIQVDSGIPLQSAAK
51.55	698.437736	1394.86	0.05	IAQGTPPLVVSSVK
64.73	859.49258	1716.97	0.08	ITVPGDDLYLPTATNK
55.42	552.809462	1103.6	0.04	IVDGFTPEAR
42.52	636.367231	1906.08	0.06	LIVHVLGGEGGLESDNVAK
65.89	631.870618	1261.73	0.03	LLQDFVVTAEK
63.61	473.781918	945.55	0.02	TALSAALGSR
54.53	824.42641	1646.84	0.04	TANVPAVMDSAAAASGAK
42.72	737.438653	1472.86	0.03	TIPEALPFFITPK
54.29	835.453788	1668.89	0.08	FSCNGGILSATSTLNK
53.19	750.950352	1499.89	0.10	LLLEFAGSEEAPPK
58.28	544.351008	1086.69	0.03	AFLALQGLVR
101.5	826.89038	1651.77	-0.05	APSQAALNDEGVDLPR
44.43	503.278645	1004.54	0.02	FSGEIPDLK
39.14	617.346765	1849.02	0.01	IADIGELQHEFIVPLR
126.84	864.482923	1726.95	0.07	LSDNGLSALVGPSSAPSR
51.48	572.824164	1143.63	-0.02	AVLESGATVAVK
52.15	625.324616	1872.95	0.06	GVEYIHSTSSSASHGNIK
46.03	740.74078	2219.2	0.08	LLVYDFMPMGSLSAVLHGNR
40.33	603.803085	1205.59	0.00	DVTLTEPEFR
41.16	502.615954	1504.83	0.00	GPAEASVDAVHLVLK
56.1	565.773993	1129.53	-0.04	GTNAVDVLEGR
72.15	523.814337	1045.61	0.04	SSVLESIVGR
37.38	568.933027	1703.78	-0.01	TEGGQEYAEFLHAPR
47.75	662.442538	1322.87	0.08	LVPLITLVDNAR
54.39	556.343695	1110.67	0.00	LIGGLLEQLR
41.79	656.883839	1311.75	0.09	EPLEQLEDALR
50.82	566.271451	1130.53	-0.06	AGCAAVLLSNR
59.45	657.831506	1313.65	0.06	FDEDSLAFQSR
56.78	699.945887	1397.88	0.09	EQALLLTEIVNR
37.78	637.399193	1272.78	0.08	LPDFLQSVNLK
50.03	810.910092	1619.81	0.07	SPWLDCVEQYPAR
42.28	527.62847	1579.86	0.00	LTTHAIPASQSLVSR
85.22	665.908508	1329.8	0.08	QADTGAIVSLLSR

38.21	683.944581	1365.87	0.10	FLPLYILSICK
38.97	780.413689	1558.81	0.07	TYINPYATFADAGR
63.16	794.018748	1586.02	0.10	LLVFQSTLPSLGVGR
51.98	645.893289	1289.77	0.07	EIIFSLLPACK
56.5	749.450078	1496.89	0.09	GFLPSGPSEIPIQR
65.72	654.329288	1306.64	0.06	AMESEDGVSGAVR
39.52	720.381596	1438.75	0.07	LVDAINF**MM**EPK
50.6	572.844566	1143.67	0.05	GDVQPFIAIGK
63	593.322702	1184.63	0.01	GWGGLGTLAEPK
46.28	480.299549	958.58	0.06	GVEIAAFPR
41.91	817.454101	1632.89	0.08	LFSAYDPPQPSLGNK
46.87	840.094048	2517.26	0.05	VLAAPATVDGG**M**QSSGDLQASSAAAAR
52.79	653.373166	1304.73	0.03	LADIPFLEPYK
57.55	711.825792	1421.64	-0.06	LQNGLECGGAYLK
51.85	641.309741	1920.91	0.00	EKAEEAAAAAGDGLSEFQK
85.95	832.894271	1663.77	0.01	AEEAAAAAGDGLSEFQK
82.7	926.033007	1850.05	0.14	ANFLSADDFEPSLIPSK
59.08	746.377903	1490.74	-0.01	DTSAADLESGALTLK
51.84	691.395064	1380.78	0.09	TYLSTEAEQALR
44.83	819.505294	1637	0.09	GVEVLDPLGLGVIDNK
63.17	689.920449	1377.83	0.06	LLVVLSNIGYCK
92.63	941.423265	1880.83	0.08	GGSESGGGSAEDGSWWAER
48.57	636.848404	1271.68	-0.01	GTLVDWVNQLK
87.17	817.809707	1633.6	-0.20	LSGNSFSGQIPDSLGR
50.82	671.332094	1340.65	0.01	EPGEAPLDWATR
62.15	665.343927	1993.01	0.00	HPNIVPLLGFCVVEDER
40.32	657.853086	1313.69	0.02	IAFACIMVHPR
50.91	798.389873	2392.15	-0.02	LADL**M**AATQDFSTSHIVVAGSSR
55.82	811.404737	1620.79	-0.02	ALTLFAPNDDAFQAK
59.16	679.41005	1356.81	0.09	LLTLLDYYDTK
37.71	786.10311	2355.29	0.00	LTSAELVTLLQYHALPQYAPK
75.5	635.780603	1269.55	0.06	GDDVSMDTGMDK
69.86	620.856123	1239.7	0.04	GHIQTLASTGAGK
51.87	467.272985	932.53	-0.01	LIVSSGVMK
38.68	495.963097	1484.87	0.05	LLTLLDYYDTKK
58.74	496.270584	990.53	0.01	VGFASAAPGSK
84.77	733.407838	1464.8	0.06	ACYNDGTVLAILR
64.17	751.902522	1501.79	0.07	CGALQVLDLEDNR

43.85	637.376707	1272.74	0.06	FSGEVPAALGGLR
52.7	662.376386	1322.74	-0.03	IPSNIGNLLNLR
49.48	618.322559	1851.95	0.01	LGELEELDLSHNQLSR
66.18	780.44954	1558.88	0.07	LGGNAFTGTVPAEIGR
58.44	925.992353	1849.97	0.06	LPSTSSDGAVVIEEGSFR
95.46	618.828105	1235.64	0.06	QFDEENVLSR
40.16	736.909425	1471.8	0.06	SNQLTGPIPGDFAR
47.45	596.308545	1190.6	0.03	GYYAGPPPDVR
64.64	620.323643	1238.63	0.02	ITYADTVEATR
49.47	521.923086	1562.75	0.01	RPGMFAGEDEDIVK
67.81	1007.600077	2013.19	0.10	IVQVGGNAFSQVDVPVSLGK

53.07	842.990536	1683.97	0.05	IYALDVPGTIPQELR
39.37	655.366713	1308.72	0.06	ISDNLASIDFSK
48.52	759.909837	1517.81	0.03	TDPTEAAALNAVFAK
39.37	655.366713	1308.72	0.06	ISDNLASLDFSK

44.51	527.367206	1052.72	0.06	LGVSLPIQVK
42.14	568.866886	1135.72	0.10	QLAATIASFSK
61.28	700.900532	1399.79	0.08	NAIEDSITWPVR

37.28	491.259858	1470.76	-0.01	VVDELLEEQGGKR
53.19	881.006541	1760	0.12	VTVFFGTQTGTAEGFAK
41.57	593.657488	1777.95	0.02	AALVALAAHASDLAEAER

37.16	740.028849	2217.06	0.01	HPAAAGGGGGDELGGVGGGGGGDGIIR
45.7	801.502663	1600.99	0.09	ASVLATGLI**M**NNILR
57.26	865.378283	1728.74	-0.05	YWMNPNQVYQSGVK
52.28	559.809647	1117.6	0.06	LSVDDWIDR

37.29	585.868229	1169.72	0.04	VIIPLTMIDR
55.02	730.91353	1459.81	0.07	ETSPFLGGGQVVGGR
59.08	743.925471	1485.84	0.06	IQTVVGDIATQGER
42.92	589.337733	1176.66	0.03	LPSTPVNFFR

58.4	839.90511	1677.8	0.00	DLETPSYELMDIPR
52.16	641.35485	1280.7	0.00	DLTAIHEILEK
97.23	1009.056592	2016.1	0.07	GGATSVQSLLLSPLAEACSR
50.21	629.923893	1886.75	-0.19	LATSGFAVENIVSEHGEK
53.77	797.372734	1592.73	-0.08	LLVAEY**M**PNDTLAK
55.85	584.392019	1166.77	0.07	SLVQALAPLQK
38.08	618.304324	1234.59	-0.02	ALYHDLNAYR
46.31	896.912882	1791.81	0.00	SYSTNLAFTPPEYMR
63.17	625.804649	1249.59	0.06	VLFDDDCNPR

68.06	664.932072	1327.85	0.06	LAVAEILLPAYR
38.8	518.624983	1552.85	0.03	SSDGVLNHVNALLSK
59.36	690.868236	1379.72	0.08	WVGAAVDFSEGSR
46.52	660.976738	1979.91	-0.05	YGAKPDAETLD**M**LNTVAR
37.39	664.919001	1327.82	0.03	AGDHLILLHVLK
59.18	1039.06802	2076.12	0.10	LCQAINEIP**M**SCLVIGSR
53.2	778.795787	2333.37	0.14	VLLGSVSDYVVNNATCPVTVVK
70.06	573.324298	1144.63	0.06	GTDAVDILEGR
60.37	670.884528	1339.75	0.02	LQQQWIGVVNR
78.21	703.8747	1405.73	0.05	VEVGNAAFESLDR
67.87	535.307025	1068.6	-0.05	IPGLQSLITK
50.66	595.384028	1188.75	0.10	LIESCLVSIR
47.04	502.76624	1003.52	-0.04	SSVLESVVGK
48.61	644.892626	1287.77	0.10	TIAELETELNR
37.47	652.277187	1302.54	-0.07	LLDEDPAV**M**ER
55.05	576.804219	1151.59	0.05	DGGLTSYAGSPK
45.89	1119.057601	2236.1	0.08	QISNCNVNGVCPLSFPDTSK
79.65	1085.100451	2168.19	0.13	QSFITNLQALDCAQFLGDK
43.75	706.926205	1411.84	0.06	LPLGAGDFPVSALR
38.17	639.334457	1276.65	0.07	WPDSAFVNGER
41.66	654.842607	1307.67	0.02	SVAHYKPFSVSS
69.78	875.555957	1749.1	0.12	LDLAANALSGPIPAALSR
46.69	739.934728	1477.85	0.08	LQYLAVSGNELSGK
57.43	515.301036	1028.59	0.03	GAVVGLDVSGR
47.41	625.012858	1872.02	0.04	KPVGEFGDGVDIVQWVK
37.74	880.427723	1758.84	0.00	ADLSGNSFDGGVPPEIGK
53.5	749.962198	1497.91	0.09	ATNILLDGLDLNAR
55.92	700.392436	1398.77	0.04	FSGPIPDNIGNLR
93.85	893.915448	1785.82	0.04	LDYPASSSGSGSSSGSAGGR
58.79	518.287385	1034.56	0.02	LSGVGGFSPSK
47.52	670.882172	1339.75	0.04	GGLVVSADELGAPR
41.19	825.009025	1648	0.11	LANNAFTGFVPSGLLK
57.33	756.03521	2265.08	0.01	AVGHGDMPIIVGEVGWPTDGDK
45.09	535.966914	1604.88	0.02	FRPEIAGL**M**TDIVK
57.72	533.304672	1064.59	0.09	FAMDLAGQGR
83.19	974.015286	1946.02	0.04	ATVPLNADVYESTVPSAGR

40.19	549.802935	1097.59	0.05	FDFDGGVTIK
45.4	521.806236	1041.6	0.03	FINSVHGIR
40.82	537.313058	1072.61	0.05	GGAELFVPAGR
60.01	935.965706	1869.92	0.06	NSAGIAFGSE**M**SGGISDVR
45.68	998.573463	1995.13	0.15	SGTLFDNFLITDDPELAK
76.29	833.434144	1664.85	0.08	FYAISAEYPEFSNK
39.27	678.412162	1354.81	0.06	LIEQIVDLQER
39.06	784.972092	1567.93	0.09	VTAYVQGPPPGVDLR
62.76	771.418895	1540.82	0.07	FQGSDAANLFGSSIK
73.53	873.333478	1744.65	-0.08	DAAGGAPYGGSNIGMGTYS
61.35	787.369469	1572.72	0.03	G**M**FVGESVSCETVR
85.26	1002.999285	2003.98	0.12	SRDAAGGAPYGGSNIG**M**GTYS
85.17	835.453788	1668.89	0.05	VLDGSAADADAPLLWR
77.48	627.342404	1252.67	0.04	LGAGGFGPVYMGK
41.42	784.398263	1566.78	0.09	FTSWTSETDPSPGR
38.2	643.360618	1284.71	0.06	ILVYEY**M**PNK
62.07	640.866742	1279.72	0.07	SLDAFLFNPEK
50.38	700.393664	1398.77	0.06	VFALQDEPEVPR
56.08	559.279429	1116.54	0.02	EDQLG**M**VPGR
48.67	764.384879	1526.76	0.05	LGSDLY**M**ANIGDSR
40.2	837.965667	1673.92	0.09	VWLPFDDAPGLA**M**AR
73.6	663.440085	1324.87	0.06	VLAAQQIGLLTAK
59.51	660.656217	1978.95	0.01	GHYDAAFETGSIESQVLR
83.39	866.972474	1731.93	0.04	AANVDNALAYNTNLIR
45.12	702.647867	2104.92	-0.03	SDDIVAVASYAFNDYYHR
45.61	748.95131	1495.89	0.11	GQGVFPLEYALFR
41.68	668.382086	1334.75	0.07	AFSIIDQDKNGK
46.33	929.926582	1857.84	0.01	EAFDLFDTDNSGTIDAK
43.58	763.867858	1525.72	0.05	NGDGEIDFDEFIR
67.23	773.894606	1545.77	0.03	AAALPAACGGDSSALSK
100.12	1132.115575	2262.22	0.10	SALGSPAAVACLCGALGQDFGIK

41.69	706.464507	1410.91	0.08	GTVEIITPVELIK
48.08	871.988613	1741.96	0.06	FAVAAPVAADSGAAAPSAAK
70.63	728.964426	1455.91	0.10	CILPTSLDGLVLR
59.72	870.893239	1739.77	-0.04	SNYSGSISSSVPGAGGSAR
58.72	807.854703	1613.69	0.01	CVYTSTCLYEYR
38.74	585.632641	1753.88	0.03	HAVDFYISDFQSGLR
39.47	1228.668632	2455.32	0.14	NDNVLMIVPPSEPISTGCQWAK
90.93	925.491023	1848.97	0.10	NTSFGGAGSNSGPVSNALGR
69.41	999.544692	1997.07	0.11	VTGVVTCGNFPLESSFQR
76	631.83759	1261.66	0.01	DADPLAVYAISK
92	965.486623	1928.96	0.06	VSFTAEDAADSATPSSFVK
60.28	538.81926	1075.62	0.04	VNSASVTATVK
39.25	524.301532	1046.59	-0.01	VSTLATASVAK
71.25	1091.623429	2181.23	0.13	GGSVQYISSPELGFLQSISGR
49.6	713.893561	1425.77	0.02	ISSPESIYYLVR
58.18	521.310071	1040.61	0.05	LSDFLTFAK
62	648.36594	1294.72	0.01	SAGLAIYAQVFR
44.43	764.882954	1527.75	0.02	ESIFPESQGFI**M**K
41.41	503.282072	1004.55	0.02	FADAVIVDR
60.34	873.48838	1744.96	0.06	LNLLTGAATSSGGGGSNLR
47.92	760.400957	1518.79	0.06	YPATDLAAEVAADGR
39.01	587.682829	1760.03	0.12	LKYPATDLAAEVAADGR
67.42	1145.098594	2288.18	0.12	GGGGGYEVQTFDIEGYSLSAPGK
51.72	896.526156	1791.04	0.13	GLVYLFEEALNSPDPK
51.29	677.312854	1352.61	-0.01	G**M**GYEPLSWAAR
77.03	800.920977	1599.83	0.02	IGQGGFGAVYYAELR
51.09	681.884719	1361.75	0.05	LGEDYPIDSILK
55.59	919.553175	1837.09	0.07	VTPSTIVGPSPVAGITVDK
52.25	801.918764	1601.82	0.07	VVGTFGY**M**PPEYAR
64.17	711.872677	1421.73	0.05	LTEVGGTS**M**PTGTR
37.6	1086.134088	2170.25	0.14	SLAPYNPNIPNLDFINVGGR
48.55	638.320825	1274.63	0.07	VNVYFTCGCR
57.1	760.423709	1518.83	0.08	VEQGSLTGETASVNK
58.52	967.436917	1932.86	0.00	DGSDASGSEPAAAAFPAWAR
74.49	794.909942	1587.81	0.05	TPSECLAELGVAADR
112.32	864.96745	1727.92	0.02	AVLAANALDFASPGAANR
116.82	666.345264	1330.68	-0.01	VSEVAALFGADPR

54.13	661.345316	1320.68	-0.02	QQQAAIVFFNR
50.93	459.331145	916.65	0.07	IGFLGLIGK
37.78	542.595527	1624.76	-0.01	KVDTIEYCNDQIK
43.31	635.807105	1269.6	0.00	VYVPSYESNGR
50.4	598.819453	1195.62	0.04	DAQIFEQFAK
47.03	498.319974	994.63	0.04	LLNLPPNSK
54.84	1049.06859	2096.12	0.11	ALSLPQLCNAPANISDCPR
39.82	855.724663	2564.15	-0.11	KPPETSFAETFAPNCGVQAATLTK
43.9	867.470813	2599.39	0.15	LLACQSNYATPDQAFNFLVNDAK
116.13	1040.575826	2079.14	0.11	ASTLDDNQGLGCIALQYIK
75.72	690.950173	1379.89	0.07	SLLAGQVLDVPLR
72.11	669.855812	1337.7	0.07	ACSSAISSTAIDR
70.67	501.739311	1001.46	-0.05	AGDTLDAIAR
45.04	1114.176672	2226.34	0.10	ALLASNGLPLSTPPSAPAPSPLR
43.71	586.859888	1171.71	0.05	GILLYGPPGTGK
46.18	649.337971	1296.66	0.05	FLDQV**M**TSGQR
67.64	821.967564	1641.92	0.08	GSPLVTCLLEGPAGSGK
69.68	565.863348	1129.71	0.06	LLEYVAIGPR
70.5	799.474139	1596.93	0.09	NEELDAVVLAQQLR
59.77	970.502206	1938.99	0.07	VSAGDSITVSSFAPPDDFK
83.01	654.272734	1306.53	-0.06	AGFPAPAYQDDR
64.2	551.240247	1100.47	-0.06	NSSSFGLFSR
45.89	591.832894	1181.65	0.08	TMSALEEVFR
45.05	636.375952	1906.11	0.12	QEQQQHLQVLSALDAAK
60.67	667.380257	1332.75	0.04	DIFTSINWIPK
43.53	766.393072	1530.77	0.02	LQDVTELDLSENR
51.89	799.00832	1596	0.11	LVDQIEWLPVSLGK
39.18	780.014171	1558.01	0.12	LSLIQVASLIESSAK
57.41	576.837772	1151.66	0.05	EALESLTVYK
41.93	461.579425	1381.72	0.00	SSNILLDADLHGK
88.07	848.958919	1695.9	0.07	VVGDVSSSAEYGALASGK
39.91	707.359973	1412.71	0.05	CACPSPPQAAAGVK
91.65	756.88647	1511.76	0.03	QTTTATSMSSLSAAR
53.5	630.380498	1258.75	0.07	VSGDVSGEVGILK

44.17	737.973625	1473.93	0.11	EFLNEIGIISALR
40.14	808.439127	1614.86	0.09	IAGTVGYMAPEYATR
59.79	566.341304	1130.67	0.04	GTLANGTTVAVK
55.28	463.904199	1388.69	0.02	LGSHYSQEEALR
40.96	520.276306	1038.54	0.02	YNICLGTAK
39.01	789.412265	1576.81	0.02	ALQYFPTIEDPGAR
47.01	568.972508	1703.9	0.07	KAEDAEVDTAEQSAIK
80.3	706.389139	1410.76	0.03	TELSSVPDTIPPR
46.59	554.660247	1660.96	0.07	VSAYLLGEYGHLLAR
39.24	557.315278	1112.62	0.07	AVEYFELSR
42.78	675.365033	1348.72	0.06	EFSESLAPDVQK
46.49	1004.041	2006.07	0.06	VVQFVTNNEDLQPYAAAK
40.93	613.897175	1225.78	0.05	LVSILDPLQTK
82.36	869.452472	1736.89	0.07	AATGGFAAENIVSESGEK
45.28	894.475885	1786.94	0.02	DAPTEQAQAAGILSFLR
65.45	556.380013	1110.75	0.07	GLPLSLVTVGR
40.05	469.332784	936.65	0.01	LLALLGLPK
54.95	884.009586	1766	0.08	LVQYFVSTAPVAGSAEK
68.73	654.328894	1306.64	0.08	GDGGECAFPELR
53.57	691.417341	1380.82	0.05	LAHSVISVLEASR
51.54	736.919936	1471.83	0.06	RVQEAQDEVASLK
42.21	737.427753	2209.26	0.11	SLPLLSAQHAAEFGGVQESIR
41.65	556.705766	1667.1	0.13	VKELADAVEALLQLR
54.91	658.859031	1315.7	0.04	VQEAQDEVASLK
50.91	720.966827	1439.92	0.12	ELADAVEALLQLR
73.32	925.491023	1848.97	0.08	FLGDCDAALGVWGAGGVGK
55.6	1031.531084	2061.05	0.09	TGGALADAQPETL**M**LQCNR
44.72	691.385074	1380.76	0.02	LLGSALFGVGEYR
43.97	564.825677	1127.64	0.04	QDLANALDIR
58.49	548.300475	1641.88	0.09	FKEYGNESEALIDK
63.98	587.841819	1173.67	0.03	ILSVLDASGSGR
54.36	637.364825	1272.72	0.04	VEVYDAISHLK
44.21	808.502438	1614.99	0.09	SQPDLAILAVNTFVK
40.12	577.811372	1153.61	0.04	DSQDPNPLIR
46.02	522.806163	1043.6	0.05	LLSTDPEAAK
49.95	721.851941	1441.69	0.02	EYATEVDVDFVR
56.34	725.409822	1448.81	0.09	LYDINAELVEDR
41.73	776.473553	2326.4	0.14	**M**APPLVTLLSAEPEIQYVALR
40.8	609.876448	1217.74	0.07	NIDQVLLEFK
51.69	709.343695	1416.67	0.00	FDLPEGGPITDEK

48.91	515.910725	1544.71	-0.06	KFDLPEGGPITDEK
82.28	585.878584	1169.74	0.07	VSQLELALAAR
41.08	615.381009	1843.12	0.14	ELSPQDAALLIQLNYR
45.18	786.785111	2357.33	0.18	KS**M**LDELEG**M**LEIVDPQPPGK
37.44	648.28657	1941.84	0.00	WEAELDSPYDDGFDRK

60.77	771.418895	1540.82	0.06	AAIAAIQNCEDLPR
62.85	692.918143	1383.82	0.07	ENVVLALANAQSR
59.07	644.377611	1286.74	0.04	FPSDALQLQLR
39.97	755.729477	2264.17	0.09	IITPIYQT**M**EAEAQNNNNGK
52.97	528.847311	1055.68	0.01	LTGLTGLLIR
40.54	775.356145	1548.7	-0.01	SCFNLGWPPAEGSK
55.67	794.897386	1587.78	0.07	SCTITNDSASYLEK
41.1	855.784659	2564.33	0.13	TTNIEHILQAADDIEDDDPNVAR
82.22	717.358428	1432.7	0.03	ELDGILDSSEAER
53.49	637.794669	1273.57	0.05	ESGTFSTDMGSR
83.24	596.797978	1191.58	0.04	ESPSD**M**LELR
49.65	565.307128	1128.6	0.03	FLFNQAFSR
101.14	705.895214	1409.78	0.02	ISNGPVAQGPEITK
41.47	520.930686	1559.77	0.05	VAFIHEEDVSSDGR
74.88	860.908199	1719.8	-0.03	FTYVVSCQIYGQQK
57.93	529.363288	1056.71	0.06	ILETILSLR
41.69	509.618552	1525.83	0.01	KAPEAADIALLMQR
64.18	542.829106	1083.64	0.03	LGLLDVTEPK
39.82	722.929883	1443.85	0.00	LVQWPLFLLTSK
42.58	609.35967	1216.7	0.06	VAWTSLEAVNK

62.87	594.859352	1187.7	0.06	GGDVLESLASIK
41.5	771.869499	1541.72	0.04	ATAG**M**SAL**M**S**M**APQK
42.33	650.405576	1298.8	0.08	AILAETGEVVAAR
77	906.421794	1810.83	-0.02	SEVDESTLTGESFPVSK

50.3	814.007276	1626	0.09	ILTLQGGEAVYPLPR
38.93	682.931707	1363.85	0.07	LLLVNPTDINPR
71.85	644.863083	1287.71	0.03	GQSQLTISDIAR
48.31	756.474667	1510.93	0.06	LPLITISDSGNLLR
63.56	758.899709	1515.78	0.06	NVANAGGDSVGDTLAR
54.63	529.322613	1056.63	0.04	SVLLGALNDR
54.34	551.825894	1101.64	0.01	QLFAVLQGAR

68.7	554.312611	1106.61	0.05	EGNVAETLFK
67.85	777.953258	1553.89	0.11	SLMSSLMEATALLR
47.86	646.823665	1291.63	0.00	ADAVLDEDLGFK
37.93	547.584616	1639.73	-0.01	EGHPVCYNAYGVFK

37.22	581.8484	1161.68	0.01	QILSLYQGLK
37.58	673.942304	1345.87	0.07	SVATILTYPLIR

37.3	682.044177	2043.11	0.05	ISTTKPIFVSTNEEPPQR
54.74	702.894417	1403.77	0.07	ANYLVDVAPGTER
61.76	660.896106	1319.78	0.07	EFLNEVTLLSR
81.81	1016.099414	2030.18	0.09	ANLLLQNQQLQQYTTVR
57.09	659.342755	1316.67	-0.01	IGSGGFGIVYYGK
80.68	690.891646	1379.77	0.02	ANLPGAENLVVQR
57.74	552.82479	1103.64	0.04	DPTLAVVAYR
77.21	777.938516	1553.86	0.06	EAAELAAESPQGLLR
76.4	725.43381	1448.85	0.10	EGLVSEAIESFIR
50.44	654.990554	1961.95	0.07	ESVD**M**HDNFDQIGLAQK
54.28	816.384933	1630.76	0.08	EVCFACVDAEEFR
52.02	556.316989	1110.62	0.05	FQELFAQTK
51.16	672.347857	1342.68	0.05	LYDEELYEAAK
71.12	814.490156	1626.97	0.08	QLIDQVVSTALPESK
44.39	512.960394	1535.86	0.01	RANLPGAENLVVQR
68.38	752.867265	1503.72	-0.06	TANLANNQIINYR
81.46	613.345609	1224.68	0.04	VDGELIFAYAK
56.93	680.873395	1359.73	0.07	VEEDAVWSQVAK
73.54	868.467922	1734.92	0.06	VVGNENPSTLICFASK
39.51	535.308298	1068.6	-0.02	YGLIYVITK
84.93	718.861994	1435.71	0.03	AAEEANVYDDLVK
46.53	565.307128	1692.9	0.03	AH**M**GIFTELGVLYAR
50.39	476.606698	1426.8	0.05	ALQHYTELPDIK
41.48	528.632442	1582.88	0.03	ALQHYTELPDIKR
37.4	772.391831	2314.15	0.02	ETSPQNSVVIVD**M**A**M**PAQPLR
47.59	570.858018	1139.7	0.04	GNLQIVVQAAK
93.04	711.85882	1421.7	0.03	GNMQLFSVDQQR
104.97	753.362261	1504.71	0.03	GQCDDELINVTNK
39.18	593.343619	1777.01	0.02	LHVIELGAQPGKPGFSK
56.61	652.373091	1302.73	0.03	LKQFQGAVDAAR
61.83	554.622246	1660.84	0.06	RGQCDDELINVTNK
44.69	505.937085	1514.79	0.06	SHQMPEQVVFWK
41.28	522.273141	1563.8	0.03	SQALEAHAASFASFK
64.93	647.864065	1293.71	0.06	LNAYESLELSR
38.61	672.879129	1343.74	0.07	NLLENWLAEDK
56.35	549.798371	1097.58	0.01	VANVELYYK
47.04	636.312492	1270.61	-0.02	APNTPISWETR
42.27	601.863699	1201.71	0.06	ATLEDGSLVAVK
64.73	808.369329	1614.72	-0.01	DGDNGPAGDELVDTLK
42.84	601.31643	1800.93	0.08	GEKPGSGAAEVESGGEVGGK
38.74	496.604881	1486.79	0.05	GHKDFESEAAVLGK
53.28	583.28877	1164.56	0.00	DFESEAAVLGK
89.39	991.058944	1980.1	0.09	L**M**TTAANSNVLAAAGALGYR
53.76	527.823742	1053.63	0.00	VVAITLPWR

72.2	851.958878	1701.9	0.05	IWCSLTIPVTADGGGR
73.66	814.896902	1627.78	0.01	VNIYYDELDSELR
40.22	809.874668	1617.73	-0.06	LGHATGATPAEFYQR
67.97	604.328705	1206.64	0.01	GNFSQLSSLVR
54.14	703.933775	1405.85	0.07	LLQDGAFSTIITK
52.69	699.380727	1396.75	0.06	ALNQISSYDTSAK
65.19	765.433009	1528.85	0.04	ELSSTELNPSIALR
40.58	591.625803	1771.86	0.05	NDNDNKNEIAAGDNIR
49.54	611.812565	1221.61	0.06	TLENLESCEK
64.4	895.52639	1789.04	0.10	SSGATVSLIQFVEAPQR
42.75	554.344066	1660.01	0.09	VLVAQTAGSTLVNI**M**K
46.77	765.924669	1529.83	0.06	SEN**M**LLDPQLNLK
73.1	835.437185	1668.86	0.04	ACCVVVEYLTGGTLK
43.85	790.394878	1578.78	-0.03	FIGASMGTTNLNIPK
59.2	888.995033	1775.98	0.08	LLESLDTSNGGGMLLEK
84.25	953.402217	1904.79	-0.04	AQPDEEDAADEAAVEAFK
57.13	728.447508	1454.88	0.07	NIPTLLNLVESSR
45.25	553.614993	1657.82	0.00	YGAGIGPGVYDIHSPR
56.61	565.808771	1129.6	0.04	IPSTEEIADR
43.52	708.690045	2123.05	0.01	ALAGQKDEAYFAANAAAQASR
50.94	600.324245	1198.63	0.07	FALESFWDGK
53.78	653.84283	1305.67	-0.03	IGSASIIGGNVYR
43.89	590.273655	1178.53	0.05	FFASYNCDR
78.85	821.390713	1640.77	0.09	GSSSCCDAAADATLQK
67.21	807.856783	1613.7	0.03	LTDDWQSEADFCK
40.19	748.877199	1495.74	0.07	ATNNFSEDCILGR
55.45	547.320567	1638.94	0.05	DLKPSNILLDQDLR
53.42	628.671033	1882.99	0.02	GIEYLHGLAQETFIHR
53.07	880.491114	1758.97	0.08	IAGTFGYLAPEYATTGK
45.4	695.722636	2084.15	0.10	VLDDSLPDDETHLVTIFR
39.58	777.079744	2328.22	0.09	EHLCDLQQSGFIPLTWTQR
72.28	759.92031	1517.83	0.05	GQEEFLAEIDVLR
41.12	580.651543	1738.93	0.08	HLVALLGYCTHGNER
54.06	503.299148	1004.58	0.05	**M**TIALDVAR
51.85	559.314594	1674.92	0.07	SDDKLSGPIDVIASMK
49.17	1213.148408	2424.28	0.23	SVPALGWDGDNVCGFEGVTCER
40.65	821.916495	1641.82	0.08	GGGGEAFT**M**TSNIAGTR
63.36	755.398641	1508.78	-0.03	LLAGGGAPPLSWSQR

49.34	635.388283	1268.76	0.05	VQVALDVAEGLR
66.97	695.342914	1388.67	0.04	CACPSAAQAAAGVR
79.24	766.92328	1531.83	0.07	AVFNGDAAAVEVVDR
39.73	574.302756	1146.59	0.00	EITALAPSSMK
44.06	566.771504	1131.53	0.01	GYSFTTTAER
109.34	874.47235	1746.93	0.05	SYELPDGQVITIGAER
52	882.487581	1762.96	0.09	SYELPDGQVITIGSER
90.73	882.496181	1762.98	0.09	TITLEVESSDTIDNVK
51.58	508.614955	1522.82	0.05	IQDKEGIPPDQQR
57.69	533.290907	1064.57	0.02	TLADYNIQK
96.77	720.893851	1439.77	0.09	VFFD**M**TVGGAPAGR
66.28	828.935406	1655.86	0.11	VIPEFMCQGGDFTR
44.94	488.29273	974.57	0.06	VVEGMDVVK
40.37	632.36038	1894.06	0.08	LAEAGYVPTKEDVLYAR
56.26	529.327937	1056.64	0.02	LLLLGAGESGK
56.89	816.952025	1631.89	0.06	LWQDPAIQETYLR
59.22	746.372904	1490.73	0.01	YVISPDNQEIGEK
46.26	769.935372	1537.86	0.08	LLFQTGFDEAELR
83.48	838.953805	1675.89	0.09	TYGPAGGINGQWSGVGR
91.73	770.867507	1539.72	0.05	ISAEDETSG**M**DLTR
43.96	721.866895	1441.72	0.04	VEPAAAAASNSNNQV
82.69	997.499992	1992.99	0.10	ENTVTLDNQSSTQDGQEK
69.74	561.327969	1120.64	0.07	YSSGAVLEPAK
50.94	759.909837	1517.81	0.08	NVEACEWLTGAIR
47.32	597.255454	1192.5	-0.11	SAAGWTALSTTK
41.08	467.592778	1399.76	0.08	EIYHGEPQGTAAK
76	695.369117	1388.72	0.09	ELAQCQEEVQR
55.78	560.805796	1119.6	0.03	ISDLESELSK
44.1	625.81824	1249.62	0.03	LLNEDADSFAR
86.25	704.700775	2111.08	0.07	LNSDKDTSLLQYNQSTER
44.25	802.423275	1602.83	0.06	NSEIQSELEALDQK
62.23	479.307972	956.6	0.04	AATALELLR
69.89	760.381041	1518.75	0.06	DGAVLNGAMCGVSPR

64.85	550.269071	1098.52	-0.01	LTAEEFYAR
45.73	596.370038	1190.73	0.09	VFGDVLDWLK
78.16	760.824185	1519.63	-0.04	DGWTTNPAEPYNR
126.49	1298.674492	2595.33	0.18	DAGGDSTFVFDSSGPFFFISGDPAR
60	491.365448	980.72	0.04	LIVVVLAVR
41.87	614.83497	1227.66	0.06	DQGNPSGVLWR
56.56	569.32201	1136.63	0.05	EFNSALTTVR
56.84	567.336763	1132.66	0.07	TEVQTVGMIR
47.44	563.276465	1124.54	-0.02	LGEGGFGSVFR
45.36	611.729639	1832.17	0.14	AVSSPLHAATAAVLAAGVAR
50.58	737.743797	2210.21	0.16	GVIDEVQHGLGLSDDDVEASR
41.38	891.426532	1780.84	0.07	CVFQEEDEQGNTGIR
83.4	910.524359	1819.03	0.08	QAVALLQDNYPEFIAK
39.09	665.011563	1992.01	0.08	AEAAPAEEAKPAEPEPEEK
51.51	1037.068966	2072.12	0.08	ETVEIPVTENSTIGWELR
64.66	585.371905	1168.73	0.05	IVLTINNPASK
46.94	510.628677	1528.86	0.10	KVEEETPAVEAEAK
43.15	628.368979	1254.72	0.06	KVPANEEPIMK
48.48	571.789809	1141.57	0.04	**MM**SPFLTQR
40.64	771.454084	2311.34	0.10	QLIAAALAACEFNLPPPPPPPK
70.33	638.861001	1275.71	0.05	TVVVTEEEAATK
70.31	917.538759	1833.06	0.10	QALALLQDNYPEFIAK
40.74	633.996504	1898.97	0.09	AEAAAEEAKPAEPETEEK
42.88	789.142787	2364.41	0.13	ELVAAALAAGEFDLPPPPPPPPAK
69.23	565.842158	1129.67	0.04	IVLTVDNAASK
41.9	547.800066	1093.59	0.03	**M**VSPFLTQR
51.51	715.404433	1428.79	0.08	IEDVTPVPTDSTR
54.06	527.812073	1053.61	0.05	TPGPGAQSALR
44.42	766.380744	2296.12	0.08	ADRDESSPYAA**M**LASQDVAQR
56.19	616.849581	1231.68	0.02	VLNLQQAGAYR
64.77	657.889609	1313.76	0.02	LPNLQQFLVSR
39.93	671.390156	1340.77	0.04	LTGNLPSEVGNLK
61.32	721.950654	1441.89	0.07	IELLVDKTENLR
45.71	525.758103	1049.5	0.01	GVMMENIEK
56.56	534.303343	1066.59	0.04	LGAGGFGAVYR

57.9	879.035151	1756.06	0.10	GYLAPEWLANLPITAK
41.14	728.871529	1455.73	0.06	EEDFSPGPFYLR
46.17	500.798462	999.58	0.03	GVPLSSVWR
38.65	808.76248	2423.27	0.09	TTQPASYVFTHFETAPEATGIR
53.62	704.940703	1407.87	0.08	AIPNVLANLEQAR
40.27	485.617307	1453.83	0.10	QNRPSESPVTPSR
41.79	614.68039	1841.02	0.08	IAEDIGQGLAYIHQASR
55.2	668.380588	1334.75	0.05	FSGPFPASVASLR
61.85	699.379531	1396.74	0.02	VTEVPIQEPTER
52.57	700.852357	1399.69	0.06	FQDSLICSSSEK
46.86	627.835741	1253.66	0.06	LSPDVQDNNPR
48.11	747.375738	1492.74	0.05	NSDISEPETLSSSK
46.53	660.332777	1977.98	0.05	TTFAESHGTPSSEVSVNTK
77.9	770.999745	1539.98	0.10	VVVGNVIEEVVSIGK
44.78	474.944019	1421.81	0.07	MAEHPGVQVTVVR
61.22	569.873152	1137.73	0.04	VSLVVLPFHK
63.98	624.824163	1247.63	0.04	ADPFASWAAGQK
42.43	605.693208	1814.06	0.07	GLAYLHELADPPIIHR
44.8	571.832404	1141.65	0.04	LNELNLANNK
49.64	773.471518	1544.93	0.07	NGFTGAIPATIGSLVK
40.67	792.411226	1582.81	0.08	QLQNASPYSTSMEK
40.55	622.866563	1243.72	0.04	STNILLDNNLK
55.29	1038.970739	2075.93	0.11	WSNDQQTLCFQCDSCK
57.78	639.840861	1277.67	0.10	IENDEPFGMAR
63.02	737.423693	1472.83	0.06	EISDLEGELLSIR
80.31	550.33379	1098.65	0.05	SSAANLALQPK
65.08	636.862304	1271.71	0.04	GVLDNSQEVAIK
68.42	703.380777	1404.75	0.06	LQSSVGSSASTEPR
60.27	665.336573	1328.66	0.01	FLGEGGFGQVYR
55.03	612.341984	1222.67	0.05	FTSDVTGEVIR
43.16	598.328881	1194.64	0.05	IIADQDVMYK
38.12	671.931266	1341.85	0.07	IIWSNLLQSLR

43.3	618.406746	1852.2	0.12	QLLIGTIGDQVLALDKR
58.48	676.386027	1350.76	0.01	YVVTLSSGGSILR
38.62	641.89477	1281.77	0.05	IVVQETPEVIR
49.19	747.874947	1493.74	0.04	SETTAGSSIPSGSSAR
58.08	725.395635	1448.78	0.08	VITEDDANLASSSK
54.92	593.339734	1184.66	0.05	VDTVVWGAPNK
102.04	855.923838	1709.83	0.09	VAAGYGGGGYGYGGYEGR
58.64	727.934021	1453.85	0.08	ENPLLGPSSATLQK
64.46	625.347451	1248.68	0.06	GFISVDCGLPGK
74.62	671.388833	1340.76	0.06	LAQGNIEGVVDAR
39.5	608.891091	1215.77	0.08	AVLPDGSFLAVK
42.86	575.820661	1149.63	0.05	LTSFNVAENR
42.22	766.960278	1531.91	0.08	TIFQSVTDPNGILK
44.41	893.498752	1784.98	0.08	GNPVGYIIDPNEVTAAR
64.97	910.994733	1819.97	0.07	LVFLDEPTTG**M**DPITR
45.2	745.408049	1488.8	0.06	DQLFCLLGPNGAGK
66.81	606.329041	1210.64	0.02	AYIDGEVFAVK
48.79	581.650657	1741.93	0.04	FLVSDISEWLDKYK
52.87	727.412736	1452.81	0.09	DAYTLLSSFSPPR
44.7	564.846851	1127.68	0.07	IAGQVNGNSLR
60.47	861.510434	1721.01	0.08	NLIGVGGFGNVYSGVLR
43.03	732.911919	1463.81	0.07	TFVPDAPFLSSAGR
44.75	790.907657	1579.8	0.07	TWLPDDPYFSSPR
82.1	993.579809	1985.15	0.09	VPAVTSTGSNTIPPLYAAAR
52.8	681.919606	1361.82	0.07	STNILLGDAFIAK
54.68	580.341155	1158.67	0.01	SLSLLNLASNK
38.8	815.447356	1628.88	0.00	LEGPIPSSLSPTLYR
46.28	636.33003	1905.97	0.05	VATAAANAAEAAAAAGESSFR
39.4	614.812637	1227.61	0.03	DITEYGEFVR
37.52	592.309852	1182.61	0.04	GVDGLFDSFAR
38.61	676.901974	1351.79	0.02	CVVPLAAAISPVR
58.02	861.006311	1720	0.08	SPESLASPPLPYPPLR

56.56	800.882804	1599.75	0.07	GTGAVTSNDPSYGSCK
43.71	727.072753	2178.2	0.05	VTTPHYLGILAPSDGIPSNAR
60.44	750.901353	1499.79	0.01	DVAAFLAAHTTIDR
40.13	1162.524427	2323.03	0.00	YGQDATNVGDEGGFAPNIQENK
54.24	790.997437	1579.98	0.09	AVDNVNSVIAPALIGK
68.14	896.006208	1790	0.08	AAVPSGASTGVYEALELR
74.69	746.417532	1490.82	0.06	IEEELGAAAVYAGAK
78.85	787.431949	1572.85	0.01	VNQIGSVTESIEAVK
44.25	859.984635	1717.95	0.05	ILDVVYNASNNELVR
60.37	623.378424	1244.74	0.07	SAIVQVDAAPFK
98.65	828.427769	1654.84	0.08	LDTGNYSWGSEAVTR
48.89	932.916403	1863.82	0.01	SIDGGACDGFPSSPEAAAR
54.11	754.420128	1506.83	0.08	IVSFVGGLDLCDGR
59.11	643.847593	1285.68	0.00	SIQDAYIHAIR
44.79	550.769862	1099.53	-0.01	APEFYFAQK
54.11	823.94771	1645.88	0.05	SGTSSYVDPSVPVPVR
47.06	483.27866	964.54	0.01	SGFISLVSR
61.53	679.909268	1357.8	0.05	IVTEDFLPLPSK
42.29	770.405	1538.8	0.07	YLSGEAEQIEWSK
55.94	873.076095	2616.21	-0.03	TTASSVQLQAGGEPPAA**M**DVEEEKR
80.3	657.34046	1312.67	0.07	YGYTDALEEPR
64.48	605.364812	1208.72	0.07	EFAAFLVDGLK
90.89	679.874433	1357.73	0.03	LIEDGSLDELVR
45.2	705.931967	1409.85	0.09	VLEWGEPIVPSGK
43.94	694.912389	1387.81	0.11	FDNSYFLELLK
61.17	562.879971	1123.75	0.06	IAIDLLEPIK
39.87	664.358033	1326.7	0.05	TDCPATLPEPVK
46.41	483.807439	965.6	0.00	LLVAGLPQR
45.36	738.36102	1474.71	0.01	WFASNPASTQPNR
43.17	554.302127	1106.59	0.05	AEFGPSQPFK

46.27	574.266888	1719.78	-0.02	SGKVPDPESTDNAEFK
47.94	955.466909	1908.92	0.03	IYDDEGLQASELIGCAR
42.7	744.359777	1486.71	0.00	DTIEDQLTWPNR
45.24	613.003763	1835.99	0.10	SAEALAEFVNTEGGTNVK
45.2	542.793672	1083.57	0.01	YGVSGYPTLK
53.42	549.876031	1097.74	0.09	DLVLQLLER
37.82	748.901453	1495.79	0.04	SFASVSAAQFPWAK
41.7	659.808959	1317.6	0.04	DFATAVECYSR
42.83	558.320106	1114.63	-0.01	SVVSALGNLQK
39.54	554.307881	1106.6	0.01	IGYVQFPQR
46.09	574.839435	1147.66	0.06	IALYGFDPPR
49.82	660.861761	1319.71	0.05	**M**VVVEDPAAAFR
47.77	824.945071	1647.88	0.09	VAAEELSWDQTPFR
44.66	731.431321	1460.85	0.05	GEQPAVAVAAAGPPVK
53.58	722.41439	1442.81	0.08	LTATSALESEFFK
46.2	720.452753	1438.89	0.09	LIETLLAIDPADR
93.17	820.423429	1638.83	0.05	LNVSTAAASDAVYDSR
73.91	805.946648	1609.88	0.08	WATSQLYDIDAISK
44.96	585.840344	1169.67	0.01	SPLAQCLLIR
41.5	622.933757	1243.85	0.08	SIATLAITTLLK
49.44	624.379505	1246.74	0.08	SGAGLAADFLIGR
37.2	667.829003	1333.64	0.04	DPTGFWDAQAAR
47.49	1001.037643	2000.06	0.09	AEVASLWSPESGEPITAEK
44.15	545.328076	1088.64	0.01	VGAVFASGLLR
42.68	657.352516	1969.04	0.02	VGDILQVTGFHNAAPQFR
42.85	802.915325	1603.82	0.10	AGTFEEV**M**DYAISR
52.24	576.318952	1150.62	-0.02	YLLYEVPVR
42.76	777.441763	1552.87	0.08	LFTIQDV**M**QSTVR

52.71	548.79644	1095.58	0.01	ILFNEAFSR
49.25	558.83581	1115.66	-0.01	VVTPIYGVIR
55.62	694.407691	1386.8	0.09	SGNEVNLVEWLK
42.17	531.29766	1060.58	-0.01	QTQIPIFSK
60.71	756.402949	1510.79	0.05	ENVLGEGGYGVVYR
64.43	474.779894	947.55	0.00	LGNVFTIGK
60.41	683.874682	1365.73	0.06	FDVGNVV**M**VTGGR
60.29	683.956204	1365.9	0.11	VIAPLVELLDER
75.49	735.930557	1469.85	0.06	VQAAVADAIGTLADR
72.75	732.467455	1462.92	0.08	LIIEEDGVPPLLR
68.67	820.487207	1638.96	0.12	YSIEEATTLVDLASK
41.93	887.972936	1773.93	0.07	SYSTNLAYTPPEYLR
50.21	869.452472	1736.89	0.07	EATGGFAAANIVSESGEK
43.04	578.3305	1154.65	0.01	YIYLSDLLR
37.77	512.900993	1535.68	0.01	T**M**DLFEGAQEHSR
72.4	715.346883	1428.68	-0.02	NTGSASITGGFVYR
38.87	604.263024	1206.51	0.00	FFVSYNCDR
38.26	955.040234	1908.07	0.11	GLDGIQGPIYVGTGCVFR
42.96	598.81306	1195.61	0.03	VCYVQFPQR
38.01	642.325079	1282.64	0.02	SVCYVQFPQR
39.72	626.361787	1250.71	0.05	TALYGYEPPIK
41.86	606.310117	1815.91	0.00	SMDVDKLENGGDKPALK
37.86	542.285425	1082.56	0.03	AGGAAPSNPWR
40	530.640012	1588.9	0.02	KADLIFGEIQSQIK
55.19	616.868851	1231.72	0.07	SILSFAVPDQR
40.88	463.581123	1387.72	-0.02	LGQIVFSDPEKR
73.12	1002.038263	2002.06	0.06	IVEAFGNDVLLENGEIDR

45.79	712.34759	1422.68	0.02	ELAEDGYSGVEVR
75.52	828.940549	1655.87	0.08	FNFPENGVELYAEK
43.08	644.833015	1287.65	-0.01	GLCAIAQAESLR
52.56	866.889692	1731.76	-0.01	NLYC**M**GFQNGGVQTK
54.47	992.587637	1983.16	0.14	GTIIDSGTTLAYVPEGVYK
51.23	1067.117575	2132.22	0.15	GIDVGGTALGLPTNIFDSGNSK
48.41	648.331924	1294.65	-0.01	YNASIDSLVWK
56.44	573.345624	1144.68	0.05	ITEGVNLPFR
45.93	605.807467	1209.6	-0.01	QFNGLVDVYR
46.54	723.888057	1445.76	0.03	YFPTQALNFAFK
53.82	631.86844	1261.72	0.06	IASEAFLADVAR
38.42	653.84283	1305.67	0.02	IGSGAGGTVW**M**VR
72.72	845.018986	1688.02	0.10	VLTLGLLNQGYDLNR
58.03	620.890331	1239.77	0.07	LNIETWVIPR
40.44	537.329595	1072.64	-0.02	VTIYLVPLR
71.01	801.414413	1600.81	0.08	EQFDGYTASLISDR
45.86	636.874268	1271.73	0.01	LIVWNALTSQK
49.99	894.926798	1787.84	0.06	GYVSSCQYVPDQETR
50.22	790.972388	1579.93	0.08	NLLSINPDDEIPIK
48.89	693.950101	1385.89	0.08	YGLAIGASVAPLVR
50.17	819.467049	1636.92	0.05	LAAELGENIPSLPEGK
56.72	634.41206	1266.81	0.05	LILGELQAPSVK
53.46	660.873209	1319.73	0.07	VIGNNIFCLDR
61.54	801.847548	1601.68	-0.02	AHCSYAVNSFYQR
37.33	1021.159228	3060.46	0.13	TLDYACGDGADCKPIQQSGACFSPDTVK
43.11	582.348389	1162.68	0.05	LSFSVEQVVR
70.4	671.943768	1341.87	0.09	LSNLVVLGLADTK
39.91	600.869925	1199.73	0.05	VGLDTGEVIAVK
41.48	618.351843	1234.69	0.06	SINFLDLGSNR
57.97	815.481778	1628.95	0.11	NLELLDLSDNALSGR

77.46	639.34903	1276.68	-0.01	FAGAGMSLVLVGR
68.85	826.442244	1650.87	0.07	YGEWAVVTGATDGIGR
49.7	993.036652	1984.06	0.09	GLDVGVLVNSAG**M**SYPYAR
77.42	831.982027	1661.95	0.10	GIDVQCQVPLYAATK
38.8	887.503708	2659.49	0.01	VSDARPPPPPAAVVPAIQPAVAANVAGK
51.99	723.408186	1444.8	0.05	YNALSGPLPSDLAK
74.3	629.846757	1257.68	0.02	DTAAELAGILER
80.6	699.380478	1396.75	0.08	AFDDASEQVLFR
48.56	923.473529	1844.93	0.09	NASFGGAASNSGPVPNAGDR
69.77	1007.529399	2013.04	0.08	VTGVVTCGNFPLESSYQR
66.05	885.912473	1769.81	-0.01	SNYSGSLSSSVPGASGSAR
81.12	1039.09673	2076.18	0.15	SDSLYLTTGEAVASLSTFSK
45.26	753.967627	1505.92	0.07	LLFDPQYLGLTVK
49.34	493.810206	985.61	0.01	IGGGVFPVIK
47.21	610.626997	1828.86	0.00	FGELTTEYGKPPGYDR
45.23	659.374351	1316.73	0.07	FYSLLDPTYAK
55.91	577.865003	1153.72	0.04	GLVPLLAEGSAK
42.75	880.993323	1759.97	0.10	VENQEGVVNFDEILR
50.69	573.846901	1145.68	0.06	FAGVLTSAPAGR
53.24	708.904922	1415.8	0.07	WVADELAVVAESK
41.3	631.860783	1261.71	0.00	GILSIPFPYQK
46	546.293253	1635.86	0.01	KNESIFSEIQSQVK
50.76	792.939943	1583.87	0.08	LILESLYDQGDYR
64.17	901.93453	1801.85	0.09	AGQQAGSLSDFYENCR
46.8	564.291522	1126.57	0.00	TYGLFLEER
41.64	579.636356	1735.89	0.01	AHELSPDDETIAAVLR
66.16	708.40702	1414.8	0.07	ELGNLEAAVGDLSK
39.54	649.883253	1297.75	0.08	VPDVYGVFQFK

46.79	519.792701	1037.57	0.00	LGYTGLSLSK
56.77	606.406159	1210.8	0.07	VLVLVDDLAVR
50.67	710.9339	1419.85	0.08	VLISGSLDLFSNR
47.78	907.533563	1813.05	0.07	LAVNSLQPEATSEITLK
43.8	468.262552	934.51	0.00	FSLGTVSPK
42.49	619.285731	1236.56	-0.01	DGETAIEFAER
39.06	613.812977	1225.61	0.00	IFVDAFWNSK
44.79	570.342562	1138.67	0.07	LGEGGFGIVYK
46.91	816.410382	1630.81	0.08	FGTGEVGFDDATYPR
67.52	626.384078	1250.75	0.06	LLVYEYLPNK
60.5	991.99846	1981.98	0.10	IFSLAQCTPDLSEADCR
55	841.992515	1681.97	0.07	VVFLNVENPGPQLEK
47.37	679.41005	1356.81	0.08	IVGEGLVIDEWK
97.78	806.958359	1611.9	0.08	LNNQLAEAEAALEAR
39.65	545.821357	1089.63	0.06	ETLGPEFIGK
38.56	571.795134	1141.58	0.00	VIFFSSTGER
37.33	604.85428	1207.69	0.02	LAVGVGYNFLR
48.28	699.439364	1396.86	0.10	ENALTVIGTNPLR
38.62	555.627193	1663.86	0.00	YGLNHVTYLIEQSK
50.09	596.870399	1191.73	0.07	TASVLCLTTVK
68.39	943.419226	1884.82	0.05	T**M**ISDSDYAEFDNFSK
41.33	482.62248	1444.85	0.03	LNLLDLAPGGHLGR
54.14	614.868532	1227.72	0.06	NFVAEIVSPPR
78.66	864.915062	1727.82	0.02	FLEGGEGFDTDITATR
42.46	574.850112	1147.69	0.06	GYAGVDLAGVVK
52.11	845.977205	1689.94	0.06	VILAIYEDDLSNPTK
37.55	724.882834	1447.75	0.02	QYSLYGLYSNLK
40.23	525.309095	1572.91	0.01	LSLASSGQLAVFRPK

47.08	1009.481018	2016.95	0.01	ESPSSNSASDGAAAAVVVGGER
37.51	887.031003	1772.05	0.08	VVQILDPALEGQYSLK
44.98	740.404427	2218.19	0.03	VLGTQGYVAPEYALTGHLTTK
54.05	723.923313	1445.83	0.07	G**M**TSGLLVGALGQAR
55.89	581.816176	1161.62	0.00	SYGGALAATVPR
47.13	617.336915	1232.66	0.03	DEMIDIIGVTK
39.42	492.275983	982.54	0.00	HGSLGFLPR
44.78	566.694078	1697.06	0.03	AHAVLLAPPLVLAAVSR
41.73	629.352272	1256.69	0.05	LPFPDEEALAR
52.92	758.928072	1515.84	0.07	SSNILLDQQWNAK
45.07	650.828826	1299.64	0.02	LLGYCVEGAYR
40.61	451.579355	1351.72	0.02	LAEDVDLEHIAK
38.98	854.755801	2561.25	0.12	LVVDEATNDDNSVIG**M**HPDT**M**EK
44.64	593.939619	1778.8	-0.01	ETTENHLSGYSSEGLR
37.87	605.369127	1208.72	0.00	IPLGQSNIVLR
48.11	616.307159	1845.9	-0.02	FVRPVCAAAADEATAAAR
45.76	614.382757	1226.75	0.05	AGLSAGEAVALLR
38.82	597.360085	1192.71	0.06	IQLTVNSGFSK
39.35	675.864966	1349.72	0.02	FCIFLLPGGGNR
45.1	694.372487	1386.73	0.08	AFFDSTGSLWEK
40.32	734.940265	1467.87	0.06	AAAGVAAVDGVEAVLR
48.95	648.827892	1295.64	0.04	FDSVDDPLFNK
44.81	607.320959	1212.63	0.01	I**M**TVPFFTNK
50.27	741.847027	1481.68	0.01	DITGSCDPYVEVK
54.81	587.356245	1172.7	0.05	VLFDLNEVPK
72.63	798.467133	1594.92	0.09	VNVIEAQDLIPNDR
59.08	743.925471	1485.84	0.06	IQTVVGDLATQGER
40.65	641.636818	1921.89	-0.01	VLLSAGADPTAQDDPHCR

43.19	639.863789	1277.71	0.07	LSAFEVGDWVR
37.54	688.42404	1374.83	0.06	GLYPVETISIVGK
90.71	660.884657	1319.75	0.05	LGDLSQTQIFAK
64.59	607.865549	1213.72	0.08	IDFLSLSYTR
65.73	777.379681	1552.74	0.02	LLSDEEYDVAQSGK
59.89	853.454336	1704.89	0.06	ANEILGNTTEELVMR
40.28	805.984576	1609.95	0.06	ILALLSGGGGGGGGGGIAAR
45.09	816.43583	1630.86	0.06	FLAQAQGETPAEVDR
67.6	627.421032	1252.83	0.08	ATLSIGNVLPIR
37.78	639.831334	1277.65	-0.02	GVVTDIIHDPGR
50.52	658.656862	1972.95	0.02	ASGDYAIVISHNPDNGTSR
49.91	658.885453	1315.76	0.00	AALQFIQGLSLR
43.3	831.442625	1660.87	0.07	NASDLCSELPETVVK
47.52	502.295853	1002.58	0.07	**M**GIIDVDPK
40.1	495.8098	989.61	0.08	QGIGVGGFQK
38.35	605.345544	1208.68	0.06	AIAPPPSESAGGR
75.54	572.347412	1142.68	0.05	ISPSELAAVTR
45.56	624.389619	1246.76	0.07	SLNKEYGPVIK
86.59	691.373353	1380.73	0.08	TSDLQSQAQEFK
59.77	762.387617	1522.76	0.03	AATEEGGVTPSVYSR
67.2	665.656349	1993.95	0.09	QSKPDEVTEDD**M**PSTSGR
38.58	602.326134	1803.96	0.08	SSFDGIHGSLNSSAVAQK
80.27	596.830614	1191.65	0.04	TGDSLLLGSSSR
41.61	836.965585	1671.92	0.06	VSPQLSSPNQPYSLR
73.25	516.294548	1030.57	0.05	ADACLAALAR
92.64	729.864916	1457.72	0.06	AGLCGGPAQVEEDR
72.77	777.426097	1552.84	0.10	NSEVLFT**M**WPGTR
45.71	594.341117	1186.67	0.04	RADACLAALAR
51.14	801.431248	1600.85	0.04	AQSQQSDASVSPLVGK
37.51	456.940121	1367.8	0.06	KPSADVLDPSLAR

81.97	664.355393	1326.7	0.02	VALACVQANPER
45.19	510.800795	1019.59	0.08	AATEIICSR
81.93	595.300761	1188.59	-0.01	EALSGDTIDLR
46.21	537.351502	1072.69	0.10	TFLLSLVGSH
49.03	613.359644	1224.7	0.02	VLEGLNQLSPR
51.31	568.296782	1134.58	0.02	VPSEEFVNSK
63.99	742.933703	1483.85	0.09	QQLSQEQGKPVVSG
42.66	569.30457	1704.89	0.08	SGEGSTAAAAAAEEEKVK
48.47	620.30148	1238.59	0.04	DLDSVDMGPYK
46.59	619.336907	1236.66	0.06	DPEAAAPPAGATAV
77.14	706.879204	1411.74	0.07	LGSQLMAASYDTR
42.62	510.625904	1528.86	0.05	TRVPEDGTVVTIDK
68.12	636.858994	1271.7	0.04	VPEDGTVVTIDK
49.84	589.829065	1177.64	0.03	YLLNQIGSDR
54.66	589.865942	1177.72	0.07	GISSSAIPYKR
43.35	476.974032	1427.9	0.11	KGQMPSQIGVVLR
67.58	670.836524	1339.66	0.06	TAAADVEE**M**I**M**K
54.66	589.865942	1177.72	0.07	GISSSALPYKR
82.95	678.841614	1355.67	0.07	TAASDVEE**M**I**M**K
39.94	601.374942	1200.74	0.08	IAPSELGVL**M**R
66.75	621.369699	1240.72	0.07	SLGGNPTQAQLR
46.07	612.83692	1223.66	0.08	AFMDATGGLWR
43.3	531.297007	1060.58	0.04	GASSVEGVEVK
100.1	736.8647	1471.71	0.08	GGSPYGSGTFAGDGSR
39.88	872.524359	1743.03	0.13	LWQVPETLSDDVLTK
42.1	620.833695	1239.65	0.05	AFFDATGGLWR
55.53	855.448634	1708.88	0.11	GVPCFSCSFPDAPLR
46.37	788.458579	2362.35	0.13	LVRPPDGGGIPTTLDGPFEPATR
67.94	583.829763	1165.64	0.05	ATYTLAGDGAVK
52.61	645.021932	1932.04	0.15	KTAHPDPPPETEQSAGDR
72.72	602.320763	1803.94	0.14	TAHPDPPPETEQSAGDR

41.74	674.392269	2020.15	0.11	FLDLANNALDGALPQHVGR
41.49	780.964648	1559.91	0.01	LSGAVPPEVAALPALR
40.23	510.794026	1019.57	0.06	LLAMPTACK
51.99	508.330166	1014.65	0.10	NEVQSLGLR
44.19	571.776166	1141.54	0.01	AFVEDSI**M**SK
45.36	619.380918	1236.75	0.03	ALEGVAPVVNIR
38.1	546.30646	1635.9	0.06	DGAINRPLFSLYDR
50.97	712.362062	1422.71	0.03	FPAAYDDGEAVLR
59.14	573.986359	1718.94	0.01	AELEVLGTLSHPNLAR
44.91	575.790903	1149.57	0.01	LLGFCAAGADR
75.41	574.349176	1146.68	0.02	LLVYELLER
42.14	640.358866	1918.05	0.10	IAKPGDTTIADSVESSAEK
77.28	785.918556	1569.82	0.06	ILFNTESSTTTSNR
52.22	656.392333	1310.77	0.05	ILNLTEPELNR
59.41	559.820233	1117.63	0.03	MVASGAVNTLR
54.48	809.475444	1616.94	0.09	TVATEILAAPSSAVCK
44.98	599.385957	1196.76	0.07	VTVYPLVHAAK
63.73	613.311073	1224.61	0.06	**M**GTEEQVPYR
113.45	850.940995	1699.87	0.09	WESQEGEGPDNIALR
77.24	589.325301	1176.64	0.06	LGLSCEGVSQK
70.32	662.351623	1322.69	0.08	YPPGLFANECR
53.26	547.828933	1093.64	0.07	ELNSYVTLR
39.98	905.147168	2712.42	0.13	**M**VVAQTIETGTQTASALSQQTEQ**M**K
55.85	840.791195	2519.35	0.10	VVAQTVEVGSQTAAALSQQTEQ**M**K
51.44	516.805775	1031.6	0.06	IAFASANPGGK
50.44	618.894575	1235.77	0.06	FASLITSTGVLK
38.73	545.328445	1088.64	0.06	LQSVSESAIR
44.57	703.910144	1405.81	0.09	SIGLGYDIANDIR
49.11	640.312776	1278.61	0.02	ISSSSSPECVAR
70.27	975.989835	1949.97	0.03	EVNTAYQSGEIAGVIDER

50.62	560.357724	1118.7	0.06	SLASVMLSALK
64.61	792.965023	1583.92	0.08	VVGTFGYLAPEYLR
39.49	576.792132	1151.57	0.02	GTYDGQDVAVK
44.38	745.882278	1489.75	-0.01	YVIAQGTYGTVYR
53.25	522.806256	1043.6	0.04	ATADDAVLLR
65.15	488.776338	975.54	-0.01	LTAAGVAAFR
41.88	518.776383	1035.54	0.06	SGFEGPWTR
52.81	863.448848	1724.88	0.06	NYPVVSAEYQEAVEK
47.65	569.80406	1137.59	0.06	LIDDYNTER
62.7	638.89539	1275.78	0.09	EGVLVEGLFWK
52.62	566.850094	1131.69	0.02	VGPPLYFVIK
45.42	868.481046	1734.95	0.12	LPWFLDALPSSDCSK
69.13	622.83581	1243.66	0.08	IGVAMDYSASSK
45.4	628.403026	1254.79	0.08	ALDWAIANLLR
47.48	620.800407	1239.59	0.01	AELGEEPGDAPR
59.63	663.405675	1324.8	0.06	IDEGVPLVNLTR
52.67	616.364651	1230.71	0.09	SDLSAIENQVR
41.13	824.497463	2470.47	0.16	IAIANADAVDPLIHVLETGNPEAK
95.49	784.864619	1567.71	0.03	YVEMEQDGGGPSTAK
54.03	585.318207	1168.62	0.01	QIDTFGLFTK
59.52	620.855888	1239.7	0.04	VPVDQGLQQTR
64.6	577.784468	1153.55	0.00	GSNEFFLQGR
50.82	579.29894	1156.58	0.03	ADGGAGWPAVEK
51.99	894.500544	1786.99	0.07	FAESVSAPLSAPSGVAAAR
45.33	604.020558	1809.04	0.13	VFDKDQNGFISAAELR
38.18	635.290694	1902.85	-0.02	EAFSLFDKDGDGCITTK

49.49	526.319461	1050.62	0.06	VYTLEEVAK
40.27	588.814154	1175.61	0.05	DDCWLIIGGK
72.05	670.375588	1338.74	0.08	IIYGGSVTGANCK
47.92	687.898344	1373.78	0.08	VIACVGETLEQR
53.61	835.51101	1669.01	0.10	QLGPGGSTAVTAIVVDGK
37.37	786.957159	1571.9	0.10	EPIFWTNPQEAIK
46.96	563.331008	1124.65	0.03	TLHDIAVGTAK
41.81	806.465071	1610.92	0.10	ALVYEFLENGSLEK
56.14	671.401694	1340.79	0.07	SVLSDTILPGDPK
49.86	601.394011	1200.77	0.08	LSSLEGIEILK
51.59	582.308778	1743.9	0.11	DAEAGDEKAAAAAGADPSK
63.45	649.837843	1297.66	0.06	SSNFGAADAFGVR
47.67	677.87896	1353.74	0.08	FSQVVSNALD**M**K
42.92	520.300456	1038.59	0.01	I**M**FALTSIK
62.02	665.851051	1329.69	0.04	YSTATSPLSFEK
59.6	812.451231	1622.89	0.03	DIVGSAYYVAPEVLK
45.22	536.343169	1070.67	0.04	ILLIGDSGVGK
54.06	897.459774	1792.9	0.06	VSDVQTSSPGQCIYPR
98.8	796.302529	1590.59	-0.19	NAACLAEQLAQQFK
48.02	618.883497	1235.75	0.07	LVTTLFQTTGR
50.36	1183.143423	2364.27	0.11	SSDLASEGITTSAPVSQPAFPFR
63.04	624.869215	1247.72	0.07	LWDLSTGVTTR
50.11	966.621612	1931.23	0.14	ILELGDNQLGGAIPPVLGR
38.43	980.572353	1959.13	0.12	ALDLSGNQFVGEIPSSLGR
37.55	486.269076	970.52	0.03	SGAAAGVPWR

51.68	771.938465	1541.86	0.06	TDPTEAAALNTILGR
43.53	699.922323	1397.83	0.08	GEVLGVVAEIQER
44.65	758.4129	1514.81	0.05	SIQNEINIDDVQK
44.93	711.861435	1421.71	-0.02	FQGIQQFQAEVK
66.73	711.337668	1420.66	0.02	DCCAGLGQVVAGSK
49.7	629.367055	1256.72	0.00	IPSSLCGIIGLK
64.12	595.348213	1188.68	0.07	LFDGSDIGPLR
49.83	516.801996	1031.59	-0.01	TFASGIIVPK
39.92	552.835261	1103.66	0.08	DIVQFVPMR
53.29	630.316998	1258.62	-0.02	AAGGFGPVTVNNR
38.07	658.368439	1314.72	0.03	GNQLSSLPSSIGR
78.03	831.468307	1660.92	0.08	AITSGVLAGCSDAIAQK
71.83	972.54263	1943.07	0.10	SFLPNDVQNQINEIQGK
64.4	746.344498	1490.67	0.00	LSNNYNTYNFGGK
53.18	598.863044	1195.71	0.06	IPEDLAVNVAR
66.7	529.318487	1056.62	-0.01	LTGAQVLLSR
60.86	688.377303	1374.74	0.06	NAIFYLSSFADK
55.98	797.473337	1592.93	0.08	VAGTIGYLAPEYALR
45.63	688.377303	1374.74	0.06	SAQAEIDAVAWSK
39.53	520.938583	1559.79	0.03	HFFAAAAGQPPQYR
70.17	647.376755	1292.74	0.07	VSAGFASDALLSR
49.8	709.401686	1416.79	0.05	SSNILLDGSWVAR
41.41	521.285359	1560.83	0.00	AVAHQPVSVAIEAGGR
51.38	687.384525	1372.75	0.06	AIDDWLPITSSR
60.92	717.873203	1433.73	0.03	LTPDYDALDVANK
69.03	570.300022	1138.59	-0.02	QIDTFGLFAK

59.6	812.451231	1622.89	0.03	DLVGSAYYVAPEVLK
58.6	715.320606	2142.94	-0.05	GLAAAAAGEDEEETSPIEEVR
61.34	794.407799	1586.8	0.06	VFSAAGEDYCLTVR
43.26	676.37226	1350.73	0.07	CFLTDALQLDR
53.82	698.919082	1395.82	0.09	AEIELGNGLPDIR
45.81	921.970426	1841.93	0.11	AGGQPSYGGGAFYMPNPR
42.87	595.351177	1188.69	0.08	AGNLGESVTVSR
47.42	471.307693	940.6	0.07	ALVVEASPR
61.54	655.834458	1309.65	0.06	ANPADSYSTQTR
68.6	724.377237	1446.74	0.06	DAAAAGSETGEELVK
40.94	499.290989	1494.85	0.08	DHDSVLLQEVGGVK
37.03	477.95369	1430.84	0.12	ELQAMEAELNKR
38.5	802.480228	1602.95	0.11	EPAAPAAAAPAQTAAAPK
47.01	585.318652	1168.62	0.01	EQALEIVDPR
60.94	604.323262	1206.63	0.04	ETPSSFSLSPR
44.72	621.347499	1240.68	0.07	EVEYAGGGIPLH
40.13	677.961025	1353.91	0.11	FAPNVPIVLVGTK
54.69	548.310902	1094.61	0.05	GADSSLFGITK
95.13	598.332037	1194.65	0.09	GASSETAAFAGAR
41.63	608.852476	1215.69	0.06	GATVDIPLDSTK
45.03	818.42925	1634.84	0.10	GGATVDIPLDN**M**SDSK
43.26	716.349519	1430.68	0.07	GGTPEEEGGGADVEK
42.43	605.693208	1814.06	0.07	GIAYLHELADPPIIHR
62.99	604.320662	1206.63	0.04	GLGADEVLDYR
52.87	558.314524	1114.61	0.04	GPGLVTFGPDR
38.03	528.293591	1054.57	0.03	GVDPVPTASGR

51	575.787186	1149.56	-0.01	GVYDGQDVAVK
40.18	620.346239	1238.68	0.05	HVWDIIEEAK
66.34	782.925196	1563.84	0.07	IENINDQYWTLR
77.9	549.297159	1096.58	0.02	IGEGGFGAVYK
40.84	518.969254	1553.89	0.11	KPVGEAVDVEAGGGGGR
83.27	659.35187	1316.69	0.03	LANDTQGTVEAAK
47.81	558.844807	1115.68	0.07	LEVSDVVVEK
54.74	727.982084	1453.95	0.10	LGPQLEILAPIKY
44.06	625.81824	1249.62	0.03	LINEDADSFAR
44.49	797.540584	1593.07	0.09	LLPLPELLSSIASIK
68.28	578.83946	1155.66	0.04	LNVGGNAISPSK
53.67	537.302976	1072.59	0.05	LPQDSISDAK
39.36	684.876315	1367.74	0.01	LSEPSDIILPER
46.92	584.306383	1166.6	0.04	LSGDYSQIER
46.84	601.313766	1200.61	0.04	LSTFDVSYNR
51.65	532.975601	1595.9	0.01	NKPTEVVNILVTNR
37.37	522.841684	1043.67	0.05	NVLMLILGR
66.59	648.897179	1295.78	0.10	NVVSDPSAAPLAR
45.85	758.405194	1514.8	0.09	QIGAPYYIECSSK
40.82	556.290363	1110.57	-0.04	QLDPALDALR
42.73	766.391205	1530.77	0.08	QNTVVSDASNDPER
48.96	613.653019	1837.94	0.05	QQYGFRPTEPAGFGAGR
58.97	800.908009	1599.8	0.06	QTGPVTEQNEPDSAK
58.31	557.845182	1113.68	0.07	SEQPTALLQK
60.15	588.823654	1175.63	0.05	SGAVTLAGSEER
40.98	486.745954	971.48	-0.03	SGGDWPLLK

48.41	707.371817	1412.73	0.04	SGLGSSPQAPSPSNK
108.2	767.894955	1533.78	0.09	SLAGDASCDAGQGVAR
46.22	617.67525	1850	0.17	SNNIHHDLDTQCPTAK
71.91	729.864955	1457.72	0.08	SQAECQQFYAAR
64.06	518.309891	1034.61	0.07	SSDPYVIVR
51.43	642.306986	1282.6	0.06	SVDAQASYDGDR
46.47	686.335431	1370.66	-0.01	TEPAAAAGAGLEEGK
38.61	562.976345	1685.91	0.05	TSAAGGGAGVAAAAHPPPAR
77.78	730.911944	1459.81	0.09	TSLGGDDDLLAQQK
93.94	528.815758	1055.62	0.02	VAALESTLPR
63.04	796.863487	1591.71	0.03	VEEVAEASDEEETR
42.97	481.331383	960.65	0.07	VILTAAFAR
43.76	681.36744	1360.72	0.05	V**M**NNQEVVDVAK
42.47	743.413775	1484.81	0.07	VVANLAAEEANQEK
41.43	734.902321	1467.79	0.08	VVGPGGVGGGGGGAEGER
38.04	573.825494	1145.64	0.03	VYLAELPEGR
40.76	776.850965	1551.69	-0.08	VYNDTNISPGFAVR
42.16	679.887276	1357.76	0.10	YGAVPAADAEPAAR
40.64	560.312036	1118.61	0.07	YGAVPEAEAGR
38.21	652.905764	1303.8	0.07	YPARPEVVVFK
58.28	666.886357	1331.76	0.06	GILAADESTGTIGK
40.63	767.433948	1532.85	0.09	AAAVGANSQAAQSMLK
48.03	488.241151	974.47	-0.01	AFLPEGADR
38.79	454.62561	1360.86	0.04	AVVLHSPILSGLR
57.11	707.828752	1413.64	0.02	DLEASNVCSTYR
43.83	669.360291	1336.71	0.08	DNADAYNSNLIK

45.22	597.379784	1192.75	0.06	DVVVDPAIPLR
64.28	573.833263	1145.65	0.06	EAISQVVGESK
51.41	647.353997	1292.69	0.08	GAHVGDAEIDPGR
62.25	757.363081	1512.71	0.04	GVYCVFEGGTPDGR
54.3	660.388207	1318.76	0.08	ICTVTQVEELK
43.95	584.359559	1750.06	0.08	LAAVLLSPGAGTHFAPTK
53.18	668.888961	1335.76	0.01	LAGATPPPASVLSR
72.1	696.829145	1391.64	0.08	QAGDDDVEMAEGR
40.15	887.947203	1773.88	0.06	SAAAGVSDNQVSEQQQR
57.23	553.285697	1656.84	0.10	SDVSDASEGAEVQHAR
47.3	681.396532	1360.78	0.09	SKVVIADSGELPM
37.74	567.839246	1133.66	0.08	TYPQQAGTIR
45.7	712.429373	1422.84	0.11	VLGTDSLNSYLNK
53.61	703.447514	1404.88	0.12	VLGTEALNAYLNK
37.13	772.451003	2314.33	0.15	VLQVEIQEEQDKLEQMVTR
91.55	672.417578	1342.82	0.11	VTGGEVGAASSLAPK
44.46	560.586153	1678.74	0.07	VYHDGCPGCAMEQR
51.85	539.830499	1077.65	0.06	YAAAVSAAAVGK
57.86	544.318352	1086.62	0.05	YLEDVIAHK
54.81	602.353552	1202.69	0.06	YVDIGIPANNK
42.15	543.846379	1085.68	0.05	AFEPILLAGR
47.5	644.920336	1287.83	0.07	LGSVFTVPILSR
46.3	602.348903	1202.68	0.01	VVSNFIAQAVR
42.11	621.378671	1240.74	0.07	AADAALAAELGLR
38.94	805.415755	1608.82	0.09	VFFENPPDCETVR
49.14	805.466308	1608.92	0.08	LSTNENTLTVGGLYK

58.66	612.331377	1222.65	0.05	LGDYSNWLQK
38.12	632.876312	1263.74	0.07	LEYLETLDIR
48.73	757.370824	1512.73	0.06	EIAQGYCDSFAPR
37.8	690.961879	1379.91	0.07	ATAVLPTILSPLGK
80.67	603.842769	1205.67	0.04	VADLQDAIYAK
38.01	776.920344	1551.83	0.07	VFQGDFSSNLPVDK
49.51	480.940358	1439.8	0.01	KFAPTIGISVDHR
40.61	700.843006	1399.67	0.02	YGLGCAVFSGNQK
43.11	653.373166	1304.73	0.06	TGEIVVFNVDGR
42.13	535.772034	1069.53	0.00	**M**ATGYVVWK
37.73	669.406564	1336.8	0.06	VSGVEIVPDPVAR
46.1	629.408132	1256.8	0.07	SIVGATLEVIQK
56.86	744.93395	1487.85	0.08	FNVLQADAQDLVR
37.63	723.696372	2168.07	-0.02	VGDLDAWGIPPPSKPDVYSR
37.56	1001.446287	2000.88	0.02	EATNNFDPSSMLGEGGFGR
38.28	902.991393	1803.97	0.09	VCCLSIIDPGDSDIIK
39.75	748.36545	1494.72	0.09	GYYEEATTDSFGR
46.76	791.135213	2370.38	0.14	DVGEVHIPLSELLSGAPDGAVPAK
37.32	466.923704	1397.75	0.02	SSNILLGEGFHPK
51.23	666.87416	1331.73	0.03	DPATSLYTIPVR
40.16	543.789058	1085.56	-0.02	HVTIFQTQL
56.41	874.502109	1746.99	0.07	VNSFVVNEEVTAAQIK
43.7	596.859519	1191.7	0.05	IVEDSLFTIR
56.77	564.868013	1127.72	0.07	LDALEVLSLR
62.47	778.944926	1555.88	0.05	LGNDASIGQVVQVEK
43.27	878.021802	1754.03	0.08	QQVLLAFGNAIPVNDR

37.5	622.378146	1242.74	0.08	APNLDILTCVK
55.2	926.507373	1851	0.10	SSSSDAPLVAFGSSDGVIR
43.02	540.956602	1619.85	0.00	KNESVFGELQTQLK
61.62	818.422045	1634.83	0.05	AWDGTVETIDLSSNK
75.18	822.401715	1642.79	0.01	GVVENLLDNDEEAAR
46.32	611.373038	1220.73	0.07	VLCAGFTAALAK
41.44	816.43583	1630.86	0.04	IVSGADDQSVIVWDK
52.56	811.404737	1620.79	0.01	GADDPATANCLYLLK
43.69	485.807656	969.6	0.01	LGSLSGLVPK
53.66	667.426275	1332.84	0.07	GALGALLVYDITK
68.03	618.333632	1234.65	-0.01	FNTIVANISTR
60.71	756.402949	1510.79	0.05	ENVIGEGGYGVVYR
54.93	685.902532	1369.79	0.08	GVDEEGLLSNLPK
39.05	494.263887	1479.77	0.01	KQSESLLLEYDR
39.8	646.80211	1291.59	0.00	FYFNPGDTGFK
40.45	705.316837	1408.62	0.02	VDCTEEIDLCR
54.15	627.323597	1252.63	0.00	DFPLAVYSVDK
63.31	553.333273	1104.65	0.02	TALLQSFLGR
62.83	521.326876	1040.64	0.01	SLVGGQLVLR
56.37	885.479895	1768.95	0.01	VGDLGQLTPTDQVLASR
49.02	621.856097	1241.7	0.07	FTELTLDTFR
47.82	735.894315	1469.77	0.08	VEGQEEINNPWR
98.58	853.96179	1705.91	0.08	VFDADGNGTISAAELAR
63.92	811.062274	1620.11	0.11	AANLALAGLSLAPLVVK
40.91	818.485746	1634.96	0.09	SAASYALGNIAVGNLSK
52.46	643.826994	1285.64	0.01	YFNASLYSPPK

46.76	652.371845	1302.73	0.06	ETVEQILQESK
47.82	680.919877	1359.83	0.07	FLQADSLLNLAR
42.96	568.286573	1701.84	0.02	ALEELFSENALDSHK
43.2	788.944734	1575.87	0.08	FEGPVSPSGNVPVYK
37.07	857.492104	1712.97	0.09	TEVILNSLNPSWNAR
38.38	815.011318	1628.01	0.13	TVGLDEAAIESIALAR
56.67	573.350852	1144.69	0.00	SGLLLITGPFK
62.37	613.422814	1224.83	0.08	LAASGLGLVLVGR
45.45	802.43589	1602.86	0.02	ESETVTSEPLALISK
46.63	597.664881	1789.97	0.09	ATTASAVEAGEATAASAVGR
37.27	652.029663	1953.07	0.02	HVLITGGSSGIGLAMATAAAR
61.73	875.951313	1749.89	0.07	ASLTGSTEVGDVEAVCR
54.43	803.407527	1604.8	0.03	EIYENSLVDGNPQK
42.4	809.46507	1616.92	0.08	SFQAVNPILPFNDR
40.67	1007.501129	2012.99	0.03	TGLLLADPIDCCDPPTQK
62.94	738.445505	1474.88	0.07	ILTTNLWSAELSK
48.37	758.387942	1514.76	0.00	**M**GFLFELPLYNR
64.65	567.35278	1132.69	0.01	VSGVSLLALFK
50.48	690.891646	1379.77	0.10	ESFTNLADVWAK
41.56	641.915611	1281.82	0.08	NVGPSGVTIAIVR
73.61	645.40672	1288.8	0.07	IPISLIYDDIK
50.63	645.915924	1289.82	0.08	ASALGVGVVYGAVK
43.76	846.00311	1689.99	0.11	FVAPDVSILESDSAIK
42.81	936.210955	2805.61	0.15	TDQAILSHTPDLGQGGSTAVTAILLNGR
84.8	916.018508	1830.02	0.07	GGTDSVIGVTLLGADGSGVR
37.86	722.917189	1443.82	0.06	QLEGSIGEQSLVGK

39.53	564.97807	1691.91	0.03	QGASIGVDGLAETLPHK
53.35	676.30496	1350.6	-0.01	SNFSGYEIYSGK
56.2	657.364765	1312.71	0.02	DALEQQLLEVR
50.27	506.841495	1011.67	0.06	LGAAGLELLR
48.08	746.368866	1490.72	0.06	EFYNEDVSTMIK
42.78	820.959245	1639.9	0.08	IATEGPCTAPQPSALK
42.66	663.864557	1325.71	0.05	ADSQVFLFANSK
43.73	709.379277	1416.74	0.09	AFLCGGLFDFDR
67.22	1019.551802	2037.09	0.09	SNQYENTSLLQIEGVNTK
39.46	715.953492	1429.89	0.07	LGSQIDILAPIKY
45.28	766.972611	1531.93	0.09	ALLYCGLAPTVLGGK
76.95	811.430108	1620.85	0.05	LADCVQYATAGSPLR
56.59	716.370601	1430.73	0.08	GEFGVTYLCTER
53.81	789.958235	1577.9	0.10	LQENGLSFDLVSTR
37.24	591.306882	1180.6	0.01	FYSPAVNVER
41.77	591.350197	1180.69	-0.01	APLGQNTVLLR
41.3	677.403417	1352.79	0.08	QALLDFASAVYR
56.74	737.441429	1472.87	0.07	LIQYDLAGAPLGSR
70.87	962.429527	1922.84	-0.02	SLNDGDVVEFSVGSGNDGR
55.88	828.886469	1655.76	-0.01	TNYDQWVSNINFR
70.61	806.401839	1610.79	0.07	VSESENGDSLGGGFTR
43.39	569.327382	1136.64	0.00	GITGLSITTFK
53.47	792.977563	1583.94	0.09	VLGDVTEGNALEVLR
47.56	680.863823	1359.71	-0.01	GAAGFATQANALLR
56.63	553.301848	1104.59	0.00	GVTAASIFSPR
64.44	656.861012	1311.71	0.06	TFEANDTLVFR

46.37	687.3962	1372.78	0.08	VFALQDEPEVAR
46.85	651.394022	1300.77	0.07	LNVADIEATLSR
58.16	905.964623	1809.91	0.10	LGNPGEAFNFSQCQNK
82.85	958.525242	1915.04	0.09	SVNQVWQVGSSVTGGAPDK
45.29	903.075011	2706.2	-0.02	NTHPPEPEGFDGSNDSGVQTPQQLR
41.27	538.321007	1074.63	0.01	SVFGGQLVLR
44.26	748.045606	2241.11	-0.04	TGGGAGAVAGADSAPVPPLHPSLSR
67.62	1147.028299	2292.04	0.02	VAETGWASSGDQTEAGASVENAR
46.45	598.906636	1195.8	0.07	IAVALLQEIAR
46.71	564.312678	1126.61	0.01	TGFFNSITLK
49.24	692.437606	1382.86	0.10	AVILWTLDPAER
37.61	674.693966	2021.06	0.12	**M**DGTDRVPAGVDEATGVTSK
37.84	672.902233	1343.79	0.07	NSPVPSFSGLLAR
43.72	587.350285	1172.69	-0.01	LYLINSPVVR
42.34	985.557014	1969.1	0.08	TVNDVTIINAGQVLENNR
37.76	661.342667	1320.67	0.08	GGADQFIEEAER
38.87	782.466254	1562.92	0.09	TVQSLTEVEAFALR
49.74	617.366672	1232.72	0.07	AFNINISDALR
54.63	638.831183	1275.65	-0.01	FPVSGSPYVAPR
48.45	915.560309	1829.11	0.11	VQNELLAQYATPLLEK
57.96	664.426904	1326.84	0.08	IIADEGVLALWK
41.72	725.002079	1447.99	0.10	GGLGAAVLALPLAAVR
41.21	609.810464	1217.61	0.06	GGGGDFSAFTFR
47.55	512.790835	1023.57	-0.01	FVTAVVGFGK
38.76	618.916733	1235.82	0.08	LPFAPVPLVQR
39.98	528.796109	1055.58	0.01	STLFNLAYK

38.85	716.918988	1431.82	0.10	VTLEGLDGDLGTSR
45.66	515.293922	1542.86	0.01	AHLPAPAEDIQILR
93.73	776.448735	1550.88	0.05	LQIDQNEISGPIPK
55.05	670.455462	1338.9	0.07	VVVVGGGIAGSLLAK
41.27	692.449325	1382.88	0.09	LTITEWALPLAR
61.89	618.362916	1234.71	0.06	TLSEVEAFALR
40.78	797.448186	1592.88	0.09	YGAWAVVTGATDGIGR
38.4	613.345609	1224.68	0.06	LQDVYGEVFR
37.27	687.898344	1373.78	0.08	EGDILTLLESER
81.96	790.997437	1579.98	0.09	AVDNVNSIIGPALIGK
82.12	1037.50393	2072.99	0.09	LVGCCNELNAGYAADGYAR
43.71	896.434701	1790.85	0.02	LVESDDDWETAVVTGR
50.79	758.964877	1515.92	0.09	SSGNEQLILTSVIR
67.08	808.439127	1614.86	0.08	VGACLDYVTPGNPPR
38.39	545.276082	1632.71	-0.11	IVAALGHDTGTDPPNR
41.09	748.901453	1495.79	0.01	GQGVFPLEYALFR
43.79	590.798051	1179.58	0.01	SLYAPSGWSGR
41.63	634.827144	1267.64	0.06	**M**NLDDLFEQK
52.57	738.941746	1475.87	0.09	YMVIQGEPGVVIR
45.7	651.894212	1301.77	0.05	EAILVGTTELTR
48.94	616.839651	1231.66	0.01	LLGPGNETYIR
40.73	707.43543	1412.86	0.07	SANILLDENLLAK
49.75	748.438546	1494.86	0.09	LLESFVNSAVSSSR
38.47	598.852146	1195.69	0.07	ISGQEAVAFFK
43.03	637.874844	1273.74	0.02	NIINTLVFGQR
37.43	548.775576	1095.54	0.00	ACNFSSGLIK

50.81	589.841174	1177.67	0.06	IQSTAGALDFR
45.99	588.025579	1761.05	0.15	CTVNDVLVGVTSAALSR
45.75	741.413326	2221.22	0.11	VPAQYPQPSPVVAADAAADAQR
39.15	734.433301	1466.85	0.06	LTGALPAALCDIPR
44.86	603.825243	1205.64	0.01	LIICGGSAYPR
52.55	919.499159	1836.98	0.09	GLSQEDIEAIPAFEYR
57.15	660.325132	1318.64	0.00	DLSIGEEVGWSK
46.05	892.450615	1782.89	0.10	VDACNAVAAWAGQYCK
42.81	585.355419	1168.7	0.00	FVLSGILPAPR
37.83	683.432217	1364.85	0.07	DGNINILPLLQR
43.24	581.826917	1161.64	-0.01	LTNYIAIAQR
45.82	614.415872	1226.82	0.09	LIDLLEIVGSR
47.56	656.438785	1310.86	0.08	AILSTINPELLK
77.57	599.898786	1197.78	0.07	VDIGQVLLSVR
44.23	557.872607	1113.73	0.05	VLITTDLLAR
65.32	823.986059	1645.96	0.12	TEEELIEAIATATGAK
73.41	927.999029	1853.98	0.07	GLYETTGGGANVVAPGYTK
50.13	875.990854	1749.97	0.07	EAPAEFQQYLVQVTK
43.9	525.299773	1048.58	-0.01	SLGAAIIYNK
39.79	745.420208	1488.83	0.07	ALEYVGLAPQGSER
37.92	577.29219	1152.57	-0.01	NLSTESIFSR
55.52	620.912524	1239.81	0.10	SPGLDDILVALK
45.45	821.444182	1640.87	0.06	EQAVWALGNVAGDSPK
38.15	603.004831	1805.99	0.05	FLALTDKEVLGEGDTAK
40.83	667.403266	1332.79	0.08	DIYTAVQWLPK
38.01	823.500372	1644.99	0.10	LLVAGDLQSFGEQLR

38.72	679.92088	1357.83	0.10	GLDFDLVPVDLR
44.77	693.891446	1385.77	0.06	GTLLDALQSDPEK
61.09	486.277384	1455.81	0.03	KYAPTIGISVDHR
53.18	602.348903	1202.68	0.01	VVSNFVAQALR
60.5	668.349409	1334.68	0.01	AGCYAANVIIQR
41.42	668.381514	1334.75	0.07	ASAYEALNEIVR
39.72	675.885919	1349.76	0.07	NVADFLQEVTSK
38.18	557.299925	1668.88	0.03	FLDILQDLHGDDLR
41.41	879.500332	1756.99	0.08	LAGTFGYLAPEYAVTGK
39.27	578.357541	1154.7	0.06	LFLANPDLPR
64.68	607.382549	1212.75	0.05	VLEEVSILPSK
87.13	643.375106	1284.74	0.00	VASIQQQLASLK
39.1	619.829421	1237.64	0.00	FQGSPAVITYR
40.49	690.879941	1379.75	0.08	TGGTYSGILPDGSR
40.49	738.445505	1474.88	0.06	VLQQASQIFQSVK
64.16	759.934389	1517.85	0.05	VLEQLSGQSPVFSK
49.48	728.868241	1455.72	0.06	SFGFDTAVEEAQR
54.04	675.818659	1349.62	-0.02	FNIANPTTGCQK
47.4	467.780864	933.55	0.02	SGLFVGINK
63.12	792.939943	1583.87	0.08	STGFGLIYDNLDAAK
45.92	544.639623	1630.9	0.02	RVEQFVNEAAILSR
37.46	774.46458	1546.91	0.08	LLVASPGSVSAYDLR
43.94	694.912389	1387.81	0.11	FDNSYFIELLK
60.7	1119.608863	2237.2	0.09	LNLAGNQFAGNVPYSIST**M**PK
49.42	774.897422	1547.78	-0.03	YAPFLNTPISAAQR
71.33	719.914965	1437.82	0.07	APVIDVTQFGYTK

62.94	738.445505	1474.88	0.07	IITTNLWSAELSK
42.87	539.302992	1076.59	0.00	GPLSFLSQTK
59.98	705.446938	1408.88	0.08	QEVQNLPVTLLR
37.45	461.579425	1381.72	0.01	SSNILLDGSFTTK
39.39	576.324499	1150.63	0.06	LGEGGFGPVYR
58.33	834.977601	1667.94	0.09	VLQFAGIEDVFTSSR
52.47	732.431298	1462.85	0.08	LIEAYNELVSQGK
65.9	807.426489	1612.84	0.07	VNNSVLFDQATYDK
37.38	836.857399	2507.55	0.17	AAVIGDTIGDPLKDTSGPSLNILIK
60.69	842.457773	1682.9	0.07	NLITCQPEDEVPIR
52.26	588.267982	1174.52	-0.02	AGEFFYSAQR
43.14	622.333707	1242.65	0.04	AGELTPEELER
39.39	690.027489	2067.06	0.06	EGGQASDIPLDISVLHN**M**R
41.71	584.811944	1167.61	0.05	FYTDEAPGLR
80.32	869.990929	1737.97	0.08	VSNLSGVEIYSLQSSR
38.95	718.899691	1435.78	0.07	YVNWDTFPLPGK
53.16	847.454442	1692.89	0.07	AEAGTAEYLIELEER
40.31	609.854453	1217.69	0.05	QLSVSAVDFPR

mental m/z value transformed to relative molecular mass; Delta, difference between experimentally determined an entative protein for which the MW, pI, Location and # TMDs was determined; MW, molecular weight in Daltons; pI, nine.

log(e)	Found by	Accession #	Elution Start	# peptides	Acc. searched
-2.7	Both	20165, 77549234, 7158297	56.18	7	20165
-3.3	Both	20165, 77549234, 4680365, 7754923	56.67		
-2.3	Both	20165, 77549234	61.89		
-1.4	Gel	20165, 77549234, 7158297	53.95		
-2.7	Gel	20165, 77549234, 7158297	53.2		
-4.3	Gel	20165, 77549234, 4680365, 7754923	76.6		
-4.1	2DLC	20165, 77549234, 7158297	74.92		
-2.8	Gel	20374, 16905493	48.74	2	20374
-2.7	2DLC	20374, 16905493, 3915054, 1401806	53.63		
-4.6	2DLC	20374, 16905493, 283009	71.65		
-10.2	Both	50934877, 633110, 218179, 5083897	46.34	36	50934877
-4.4	Both	50934877, 633110, 20302443, 50929	53.41		
-4.6	Both	50934877, 633110	50.66		
-8.8	Both	50934877, 633110	64.63		
-5.3	Both	50934877, 633110	54.25		
-7.8	Both	50934877, 633110, 50838972, 77556	48.61		
-6.5	Both	50934877, 633110, 20302443, 50929	54.47		
-9.8	Both	50934877, 633110	48.45		
-10.3	Both	50934877, 633110, 50838972, 77556	59.69		
-2.7	Both	50934877, 218179, 50838972, 77556	52.34		
-10.3	Both	50934877, 633110, 20302443, 50929	65.16		
-4	Both	50934877	56.03		
-9.7	Both	50934877, 633110, 20302443, 50929	53.38		
-7.7	Both	50934877, 633110, 20302443, 50929	79.15		
-6.1	Both	50934877	50.31		
-8.7	Both	50934877, 633110	69.42		
-9	Both	50934877, 633110	54.63		
-6.8	Both	50934877, 633110	65.24		
-5.3	Gel	50934877, 633110, 20302443, 50929	53.56		
-8	Gel	50934877, 633110, 218179, 5083897	63.27		
-2.5	Gel	50934877, 633110	34.42		
-5.5	Gel	50934877, 633110, 20302445	85.71		
-5.5	Gel	50934877, 633110, 218179, 5083897	51.17		
-1.2	Gel	50934877, 633110	88.12		
-4.5	Gel	50934877, 633110	61.52		
-4.7	Gel	50934877, 633110	40		
-6.6	Gel	50934877, 633110, 50838972, 77556	45.97		
-7.9	Gel	50934877, 633110	81.42		
-5.2	Gel	50934877, 633110, 20302443, 50929	78.34		
-1.5	Gel	50934877, 633110, 218179, 5083897	46.3		

-3.7	Gel	50934877, 633110, 20302443, 50838	88.51		
-3.9	Gel	50934877	47.42		
-4.9	Gel	50934877, 633110	46.29		
-4.3	Gel	50934877	50.12		
-1.1	2DLC	50934877, 633110	58.28		
-3.4	2DLC	50934877, 633110	68.38		
-2.8	2DLC	633110	61.56	32	633110
-4.7	Both	20302443, 50929295, 218179, 50838	55.06	32	20302443
-5.6	Both	20302443, 50929295, 29367383	65.17		
-4	Both	20302443, 50929295	57.19		
-5.5	Both	20302443, 50929295	52.88		
-3.3	Both	20302443, 50929295, 29367383	58.92		
-9.3	Both	20302443, 50929295	50.93		
-9.9	Both	20302443, 50929295, 29367383	50.32		
-7.7	Both	20302443, 50929295, 218179, 50838	53.98		
-7.4	Both	20302443, 50929295,. 29367383	49.6		
-7.6	Both	20302443, 50929295, 218179, 50838	52.12		
-7.3	Both	20302443, 50929295	37.52		
-14	Both	20302443, 50929295, 29367383	59.58		
-9.9	Both	20302443, 50929295	74.24		
-2.2	Gel	20302443, 50929295, 20302439, 293	37.67		
-3.1	Gel	20302443, 50929295, 20302439, 293	31.05		
-5.1	Gel	20302443, 50929295, 29367383	84.37		
-11.6	Gel	20302443, 50929295, 29367383	65.02		
-5.4	Gel	20302443, 50929295	50.32		
-4	Gel	20302443, 50929295, 20302439, 203	47.87		
-2.1	Gel	20302443, 50929295, 29367383	58.25		
-5.9	Gel	20302443, 50929295	59.42		
-9.4	Gel	20302443, 50929295, 218179, 50838	51.88		
-6.9	Gel	20302443, 50929295, 29367383	80.45		
-5.3	2DLC	20302443	57.25		
-4.2	Both	50929295	76.84	35	50929295
-7.6	Both	50929295	55.92		
-9.6	Both	50929295	64.53		
-5.5	Gel	50929295	53.63		
-1.4	2DLC	218179, 50838972, 77556811	58.28	16	218179
-4.5	Gel	77556811	61.52	20	77556811
-2.7	Gel	20302439, 50725833 50942783	57.09	10	20302439
-3.1	2DLC	20302439, 50725833, 50942783	54.37		
-2	Both	13195452, 50899518, 34909538, 509	59.48	5	13195452
-3.5	Both	13195452, 34910940, 50899518, 218	48.88		
-3.3	Gel	13195452, 34910940, 50899518, 218	56.44		
-4.8	2DLC	13195452, 218228	57.26		
-3.4	2DLC	13195452, 218228, 34909538, 50932	63.58		

-7.5	Both	34910940	52.33	5	34910940
-1.6	2DLC	34910940, 50931085	59.48		
-3.4	2DLC	34910940, 50899518, 50511479	58.78		
-3.7	Gel	50511479	55.36	4	50511479
-6.1	Gel	50931085	34.79	5	50931085
-3.9	Gel	50931085	42.51		
-3.9	Gel	50933495	46.37	2	50933495
-3.3	Both	460991, 52077238, 303842, 310317, 4	79.86	12	460991
-3	Both	460991, 34902354, 52077238, 303842	66.34		
-3	Both	460991, 34902354, 52077238, 303842	64.18		
-4.9	Both	460991, 34902354, 52077238, 303842	67.42		
-6	Both	460991, 34902354, 310317, 1076737,	46.94		
-2	Gel	460991, 34902354, 52077238, 303842	45.98		
-2.7	Gel	460991, 34902354, 52077238, 303842	54.4		
-2.2	2DLC	460991, 34902354, 52077238, 303842	61.46		
-5.4	2DLC	460991, 34902354, 52077238, 310317	62.42		
-3.5	2DLC	460991, 34902354, 52077238, 303842	50.58		
-4.3	2DLC	460991, 34902354, 52077238, 303842	69.81		
-3.1	2DLC	460991, 34902354, 52077238, 303842	51.73		
-1.3	2DLC	34902354, 52077238, 493725, 107673	57.73	12	34902354
-3.5	Both	52077238, 303842, 493725, 1076738,	48.19	15	52077238
-2.3	Gel	52077238, 493725, 1076738, 5090551	45.28		
-3	2DLC	52077238, 829169	56.88		
-3.9	Gel	34902500	47.22	12	34902500
-8.3	Both	62733539, 303859	59.95	5	62733539
-1.4	Gel	62733539, 303859	29.01		
-2.4	Gel	62733539, 303859	26.57		
-1.5	2DLC	62733539, 50946923, 51964902, 7755	73.78		
-6.8	2DLC	62733539	52.02		
-2.4	2DLC	50946923	62.46	2	50946923
-5.4	Both	51964902	55.23	5	51964902
-2.4	Gel	51964902	25.69		
-6.3	2DLC	51964902, 77551433	59.99		
-1.6	2DLC	51964902	63.79		
-4.8	Gel	77551433	26.64	4	77551433
-5.2	2DLC	77551433	58.13		
-8	Both	50924834, 7271253	59.52	3	7271253

-4.2	Gel	50924834, 7271253	31.5		
-6.5	Both	432607, 34914060	73.44	5	432607
-2.3	Both	432607, 34906164, 50919469, 519633	56.44		
-1.7	Gel	432607, 34914060	62.44		
-2.3	Gel	432607, 34906164, 50919469, 519633	62.35		
-7.4	2DLC	432607, 34914060	63.09		
-3.9	Both	34906164, 50911379	56.5	4	34906164
-5	2DLC	34906164, 50911379	60.08		
-3.4	2DLC	50919469, 50931689, 50935375	76.43	3	50919469
-5.4	2DLC	51963318	67.63	3	51963318
-5.7	Gel	34914060	31.95	6	34914060
-8.9	Gel	50935375	48.37	4	50935375
-6.2	Both	52077416	63.82	5	52077416
-3.7	Both	52077416, 450300	62.91		
-6.8	Both	52077416, 450300	63.03		
-3.1	Gel	52077416, 450300	68.12		
-4.8	Gel	52077416, 450300	35.76		
-5.6	Both	587498, 51963444	61.82	8	587498
-3	Both	587498, 51963444	61.68		
-3.2	Gel	587498, 51963444	59.13		
-3	Gel	587498, 51963444	48.26		
-4.1	Gel	587498, 51963444	46.09		
-6.5	2DLC	587498, 51963444	50.06		
-2.4	2DLC	587498, 51963444	52.31		
-2.7	2DLC	587498, 51963444	55.43		
-3.5	Both	50909885, 642121	52.14	6	50909885
-1.4	Gel	50909885, 642121, 50924964, 502526	53.71		
-4.6	2DLC	50909885, 642121, 50924964	64.3		
-2.1	2DLC	50909885	60.15		
-1.3	2DLC	50909885, 642121, 50924964	59.59		
-1.5	2DLC	50909885, 642121, 50924964	54.58		
-1.1	Gel	50924964	57.21	5	50924964
-4	Both	50428726, 1136122, 2613143, 504287	66.42	6	50428726
-1.6	Gel	50428726, 1136122, 1136120, 261314	49.02		
-5	2DLC	50428726, 1136122, 1136120	61.53		
-5.8	2DLC	50428726, 1136120, 2613143, 504287	69.44		

-3.6	2DLC	50428726, 1136122, 1136120, 261314	73.41		
-4.5	2DLC	50428726, 1136122, 1136120	66.54		
-5	2DLC	1136122, 51979002	57	6	1136122
-2.4	Both	1296955, 34902150	58.39	10	1296955
-1.3	Both	1296955, 34902150	54.92		
-2.5	Both	1296955, 34902150	45.41		
-8.5	Both	1296955, 34902150	56.78		
-2.1	Gel	1296955, 34902150	47.36		
-2.6	Gel	1296955, 34902150	35.08		
-2.1	Gel	1296955, 34902150	60.06		
-3.9	Gel	1296955, 34902150	50.17		
-3.4	Gel	1296955, 34902150	61.71		
-2.4	Gel	1296955, 34902150	57.74		
-5.6	Both	1707642, 50918329	50.49	11	1707642
-2.5	Both	1707642, 50918329	63.81		
-7.3	Both	1707642, 50918329	50.49		
-4.6	Both	1707642, 50918329	72.08		
-5.6	Both	1707642, 50918329	53.58		
-5.3	Both	1707642, 50918329	54.86		
-4.1	Gel	1707642, 50918329	47.36		
-4.3	Gel	1707642, 50918329	65.66		
-4.2	Gel	1707642, 50918329	58.43		
-4.8	2DLC	1707642, 50918329	57.17		
-7.5	2DLC	1707642, 50918329	51.29		
-6.9	Both	50933571, 38488590, 41023649, 1747	50.32	7	50933571
-1.1	Gel	50933571, 38488590, 1747294, 32984	49.26		
-1.5	2DLC	50933571, 38488590, 41023649, 1747	57.87		
-2	2DLC	50933571, 38488590, 41023649, 1747	61.64		
-3.3	2DLC	50933571, 38488590, 41023649, 1747	49.06		
-2	2DLC	50933571	65.49		
-4.9	2DLC	50933571	63.67		
-2.9	2DLC	38488590, 1747294, 3298474, 509057	55.35	7	38488590
-5.7	2DLC	38488590, 50905735	59.25		
-3.4	2DLC	41023649, 51090728	60.16	5	41023649
-2.7	Both	21664287, 34908140, 50919489, 5093	60.67	17	21664287
-2.8	Both	21664287	56.61		
-2	Both	21664287, 50931675	57.68		
-3.6	Both	21664287, 34908140, 50919489, 5093	68.36		
-2.2	Both	21664287, 34908140, 50919489, 5093	61.08		
-4.4	Both	21664287, 50904765, 34908140, 5091	62.23		
-4.3	Both	21664287, 50904765, 34908140, 5091	60.64		

-5.6	Both	21664287	75.55		
-2.2	Both	21664287, 50931675	63.28		
-4.8	Both	21664287	51.17		
-4.1	Both	21664287, 34908140, 50931675, 5091	66.5		
-1.5	Gel	21664287, 34908140, 50919489, 5093	58.27		
-4.1	Gel	21664287, 50919489	52.28		
-2.4	Gel	21664287, 34908140, 50931675	46.71		
-4.3	Gel	21664287, 34908140, 50919489, 5093	52.7		
-3.2	Gel	21664287, 34908140, 50931675	53.21		
-3.5	Gel	21664287, 50919489, 50931675, 5573	39.69		
-5.6	Gel	50904765, 2267006	52.52	10	50904765
-1.7	Gel	50904765, 2267006, 50931201	54.26		
-2	2DLC	50904765, 2267006	55.8		
-1.8	2DLC	50904765, 2267006	60.16		
-3	2DLC	50904765, 2267006	51.78		
-6.5	2DLC	50904765	47.89		
-2.4	2DLC	50904765, 2267006	70.03		
-4.4	2DLC	50904765, 2267006	68.74		
-8	Both	34908140, 50919489	59.95	14	34908140
-4.7	Both	34908140	51.67		
-2.3	2DLC	34908140	56.75		
-1.3	Both	50919489	57.68	16	50919489
-2.2	Gel	50919489	49.27		
-2	Gel	50919489	52.88		
-5.5	Gel	50919489	52.93		
-1.7	2DLC	50919489	51.67		
-4.6	2DLC	50931675	52.97	14	50931675
-4.4	Both	55733909, 50942015	62.23	3	55733909
-4.3	Both	55733909, 50942015	60.64		
-2.9	Both	11669.m01695|Os	60.79	6	11669.m01695
-1.2	Gel	11669.m01695|Os, 11669.m01702|Os	61.26		
-2.5	Gel	11669.m01695|Os	31.48		
-2.8	Gel	11669.m01695|Os	53.71		
-3.9	2DLC	11669.m01695|Os	52.69		
-4.3	2DLC	11669.m01695|Os	75.63		

-3.7	Both	2662343, 2662347, 6015059	49.2	3	2662343
-2.1	Gel	2662343, 2662347, 6015059	45.27		
-5.9	2DLC	2662343, 2662347, 6015059	48.21		

-11.2	Both	2801538, 50929783	65.78	5	2801538
-8	Both	2801538, 50929783	55.48		
-6.4	Both	2801538, 50929783	57.04		
-2.1	Gel	2801538, 50929783	33.46		

-3.2	2DLC	2801538, 50929783	72.74		
-2.2	Both	24415114, 51964138	56.59	4	24415114
-4.6	Both	24415114, 51964138, 3023816, 5092	65.45		
-1.1	Gel	24415114, 51964138, 50925303	48.87		
-7	2DLC	24415114, 51964138	59.91		
-2.9	2DLC	3023816, 50925303, 50940735	54.53	2	3023816
-3.5	Both	34901270, 3135543, 5381216	46.57	3	34901270
-1.9	2DLC	34901270, 5381216	50.75		
-2.7	2DLC	34901270, 3135543	53.31		
-6.3	Both	50928771, 5679843	62.51	4	50928771
-5.7	2DLC	50928771, 50905471, 52076900, 567	53.28		
-3.7	2DLC	50928771, 34895942	59.12		
-6	2DLC	50928771, 50905471, 52076900, 567	60.81		
-2.1	2DLC	50905471, 34898856, 34901778, 502	50.17	4	50905471
-3.2	2DLC	50905471	59.31		
-3.5	Both	34898856, 50938099	52.62	5	34898856
-5.4	Both	34898856	47.39		
-3.3	Both	34898856, 50938099, 50938043	50.18		
-3.3	2DLC	34898856, 34898854, 50924218, 348	53.6		
-5.5	Both	50938043, 50938053, 50938057, 509	49.43	7	50938043
-1.9	Gel	50938043	56.86		
-2.9	Gel	50938043	49.52		
-3.5	Gel	50938043, 50938053, 50938125, 509	72.46		
-1.4	Gel	50938043	51.18		
-1.4	2DLC	50938043, 50725798, 50938125, 509	50.83		
-4.8	Both	50938053	50.96	16	50938053
-5.8	Both	50938053	64.74		
-4.4	Both	50938053	48.89		
-2.8	Both	50938053	58.05		
-3.9	Both	50938053, 50938057, 34898858	60.15		
-3.5	Both	50938053, 50938057	70.03		
-5.2	Both	50938053	54.67		
-5.8	Both	50938053	51.91		
-5.9	Both	50938053	57.03		
-6.6	Gel	50938053	56.21		
-3.7	Gel	50938053	29.7		
-3.4	2DLC	50938053	74.2		
-3.5	2DLC	50938053	53.89		
-4.7	2DLC	50938053	68.06		
-4.2	Both	50938099	58.81	12	50938099

-5.3	Both	50938099	49.23		
-6.1	Both	50938099	60.29		
-1.1	Gel	50938099	49.38		
-4.7	Gel	50938099	48		
-8.7	Gel	50938099	75.78		
-1.7	Gel	50938099, 50938137, 50938133	54.82		
-2.7	Gel	50938099, 50508396	57.17		
-3.2	2DLC	50938099	58.58		
-3.2	2DLC	50938099	65.08		
-1.4	Both	50251780, 52076900	50.31	7	50251780
-3.1	Gel	50251780	66.51		
-2.5	Gel	50251780	48.05		
-1.8	Gel	50251780	50.86		
-1.1	Gel	50251780	33.65		
-1.4	2DLC	50251780	61.37		
-2.7	2DLC	50251780	52.69		
-5	Both	50509688	50.05	5	50509688
-1.8	Gel	50509688, 50938061, 50938045, 5093	57.22		
-3.3	Gel	50509688	62.22		
-2.1	2DLC	50509688, 50725798, 50937235	50.17		
-1.7	2DLC	50509688	70.52		
-2.3	Gel	50725798	49.83	3	50725798
-4.8	Gel	50938125	49.08	3	50938125
-4.2	Both	50938057	67.13	9	50938057
-9.2	Both	50938057	58.15		
-9.1	Both	50938057	58.01		
-3.7	Gel	50938057	55.12		
-2.2	Gel	50938057	46.06		
-2.4	Both	50938129	59.99	6	50938129
-4.9	Gel	50938129	47.39		
-5.9	Gel	50938129	28.68		
-7.3	Gel	50938129	28.98		
-2.1	2DLC	50938129	66.56		
-3.3	2DLC	50938137	53.6	3	50938137
-1.9	Gel	50938061	49.03	4	50938061
-2	Gel	50938061, 50938055, 50938045, 5093	50.6		
-2.6	2DLC	50938061	72.28		

-1.2	Gel	5777621, 50929863	51.76	5	5777621
-3.7	Gel	5777621, 50929863	52.21		
-2.3	Gel	5777621, 50929863	52.47		
-2.6	2DLC	5777621, 50929863	58.91		
-2.8	2DLC	5777621, 50929865	51.81		

-5	Gel	31432350, 23600446	56.32	6	31432350
-2.9	Gel	31432350, 7547148, 7208420, 23600	50.05		
-2.4	Gel	31432350, 7547148, 23600446	60.18		
-5.4	Gel	31432350, 7547148	54.71		
-2.1	2DLC	31432350, 7547148, 7208420, 23600	62.15		
-5.1	2DLC	31432350, 7547148, 23600446	62.62		
-3.7	Both	50899628, 14150732, 50945439	68.26	4	50899628
-3.3	Both	50899628, 50932977	57.38		
-3.3	Gel	50899628, 50932977, 14150732, 3143	24.78		
-2.8	2DLC	50899628	55.99		
-3.2	Both	50932977, 31432559	52.71	6	50932977
-2.6	Gel	50932977	27.32		
-3.4	2DLC	50932977	66.16		
-4	2DLC	50932977	67.27		
-4.4	Both	14150732, 50945439	55.8	7	14150732
-3	Both	14150732, 50945439	49.39		
-2	Gel	14150732, 50945439	55.86		
-1.7	Gel	14150732, 50945439	54.02		
-1.4	2DLC	14150732, 50945439	54.68		
-2.5	Both	21321777	58.47	4	21321777
-5.5	2DLC	21321777	57.31		
-3.9	2DLC	21321777	59.16		
-5.8	2DLC	21321777	58.06		
-5.4	Both	47498548, 50948577, 21429216	63.86	5	47498548
-7	Both	47498548, 50948577, 21429216	67.35		
-2.5	Gel	47498548, 50948577, 21429216	81.7		
-4.2	Gel	47498548, 50948577, 21429216	71.8		
-3	Gel	47498548, 50948577	43.87		
-5.7	Both	22748323	66.16	4	22748323
-4.9	Both	22748323, 29150650	57.67		
-4.9	Both	22748323	68.9		
-7.2	Both	22748323	62.59		
-5.1	Both	22758281	67.81	3	22758281
-6.2	Both	22758281	64.62		
-3.9	Both	22758281	52.15		
-7.2	Both	23600439	65.92	5	23600439

-10.5	Both	23600439	58.84		
-3.7	Both	23600439, 23600443	56.09		
-5.1	Gel	23600439	48.48		
-2.5	2DLC	23600439	64.83		
-3.4	Both	23600464	76.79	4	23600464
-7.3	Both	23600464	63.01		
-3.9	Gel	23600464	51.5		
-8.6	Gel	23600464, 34909374	54.59		
-4.1	Both	33304608, 34912538, 28144343, 5379	53.54	29	33304608
-6.6	Both	33304608, 28144345, 34912538, 2814	52.96		
-4.9	Both	33304608, 34912538, 28144343, 5379	58.57		
-3.3	Both	33304608, 34912538, 28144343, 5379	53.87		
-3.4	Both	33304608, 50945227, 28144345, 3491	58.65		
-2.5	Both	33304608, 28144345, 34912538, 2814	62.63		
-5.2	Both	33304608, 34910744, 34912538, 3489	68.41		
-13.3	Both	33304608, 50945227, 28144345, 3491	62.95		
-5.7	Both	33304608, 34912538, 28144343	48.44		
-3.5	Both	33304608, 50945227, 28144345, 3491	51.28		
-8	Both	33304608, 28144343, 53791468	47.51		
-3.1	Both	33304608, 28144345, 34912538, 2736	62.02		
-3.6	Both	33304608, 50945227, 50252713, 2814	57.78		
-3.1	Both	33304608, 34912538, 27368819, 2814	53.25		
-5.8	Gel	33304608, 34912538, 28144343	54.18		
-3	Gel	33304608, 34912538, 28144343, 5379	55.91		
-5.6	Gel	33304608, 28144345, 34912538, 2814	49.61		
-2.8	Gel	33304608, 34912538, 28144343, 5379	73.93		
-3.2	Gel	33304608, 34910744, 34912538, 3489	62.3		
-4.7	Gel	33304608, 34912538, 28144343, 5379	30.26		
-8.2	Gel	33304608, 34912538, 28144343	53.43		
-11.6	Gel	33304608, 34912538, 28144343	51.58		
-5.3	Gel	33304608, 50945227, 28144345, 3491	50.74		
-2.6	Gel	33304608, 34912538, 28144319, 3489	31.74		
-4.2	Gel	33304608, 34912538, 28144319, 3489	58.04		
-5.5	Gel	33304608, 28144345, 34912538, 2736	46.93		
-6.5	2DLC	33304608, 28144343, 53791468	56.23		
-4.9	2DLC	33304608	79.87		
-5.2	2DLC	33304608, 34912538, 28144343, 5379	56.53		
-3.4	Both	34910744	58.65	4	34910744
-3.6	Gel	34910744, 50252713, 50937841, 2736	52.65		
-5.2	Both	50945227, 28144345, 50937841, 2736	68.97	11	50945227
-3	Gel	50945227	59.22		
-2.4	Gel	50945227	30.03		
-2.6	Gel	50945227	31.74		
-4.2	Gel	50945227	58.04		
-2.3	2DLC	50945227	53.25		

-4.8	2DLC	50252713	72.7	3	50252713
-4	Gel	34912538, 28144343, 53791468	29.1	27	34912538
-6.3	Both	27368813, 31430876	57.44	4	27368813
-2.9	Gel	27368813, 31430876	47.19		
-5.1	2DLC	27368813, 27368833, 31430876	72.7		
-2.9	Both	50937841, 27368829	53.51	10	50937841
-5.3	Gel	50937841, 27368829	52.01		
-4.7	Gel	50937841, 27368829, 50909155	60.24		
-2	Gel	50937841, 27368829	52.57		
-3.3	Gel	50937841, 27368829	55.04		
-2.7	Gel	50937841, 27368829	56.8		
-2.9	Gel	50937841, 27368829	63.02		
-6.9	Both	27368845, 50948583, 50948585	53.48	7	27368845
-2.9	Gel	27368845, 50948581, 50948583, 509	49.19		
-3.2	Gel	27368845, 50948583, 50948585	31.94		
-4.7	2DLC	27368845, 50948581, 50948583, 509	84.03		
-2.9	2DLC	27368845, 50948583, 50948585	79.28		
-7.6	2DLC	27368845, 50948581, 50948583	67.75		
-3.5	2DLC	27368845, 50948581, 50948583	78.69		
-5.9	Gel	50948583, 50948581	48.48	8	50948583
-7.3	Both	27368847, 50929087, 50924782	57.4	18	27368847
-4	Both	27368847, 50924782	64.92		
-9	Both	27368847, 50924782	64.94		
-2.6	Both	27368847, 50924782	50.92		
-3.6	Both	27368847, 50924782 50929087, 1024	55.44		
-2.4	Both	27368847, 50924782	67.08		
-2.4	Both	27368847, 50924782	66.37		
-5.7	Gel	27368847, 50924782	50.36		
-4.1	Gel	27368847, 50924782	49.96		
-6.9	Gel	27368847, 50924782, 50929087	84.11		
-4	Gel	27368847, 50924782	47.51		
-1.9	Gel	27368847, 50929087, 10241621, 509	57.22		
-7.3	Gel	27368847, 50924782	49.69		
-6	Gel	27368847, 50924782	51.58		
-6.8	Gel	27368847, 50924782	52.2		
-2.4	2DLC	27368847, 50924782	69.72		
-4	2DLC	27368847, 50924782	50.13		
-3.6	2DLC	27368847, 50924782	61.91		
-5	Both	50929087	64.41	12	50929087
-2.5	Both	50929087	50.31		
-4	Gel	50929087, 10241621	50.95		
-5	Gel	50929087	61.44		
-2.9	Gel	50929087	45.56		

-1.8	Gel	50929087, 10241621	70.96		
-3.1	Gel	50929087, 10241621	49.46		
-2.5	Gel	50929087	47.85		
-5.1	Both	50901966, 27368855, 27368859, 349	56.51	25	50901966
-7.3	Both	50901966	65.96		
-2.2	Both	50901966	73.79		
-7.9	Both	50901966	59.97		
-3	Both	50901966, 50932623	62.95		
-5.5	Both	50901966, 27368859	64.35		
-2.1	Both	50901966	80.18		
-9.4	Both	50901966	69.07		
-6.7	Both	50901966	71.5		
-7.3	Both	50901966	73.54		
-5.8	Both	50901966	70.36		
-8	Both	50901966, 34894326, 50932093, 273	73.53		
-6.3	Both	50901966, 27368859	74.01		
-6.1	Both	50901966	53.91		
-6.5	Both	50901966	67.32		
-4.7	Both	50901966	58.19		
-2	Both	50901966, 34913530	53.35		
-2.5	Gel	50901966	48.33		
-6.5	Gel	50901966	47.4		
-5.1	Gel	50901966	48.7		
-1.5	Gel	50901966	56.44		
-2.5	Gel	50901966	36.25		
-7.4	Gel	50901966	45.61		
-7.4	2DLC	50901966	53.01		
-1.6	2DLC	50901966, 27368859	53.32		
-1.6	2DLC	34894326	61.24	4	34894326
-2.5	2DLC	34894326, 50932093	70.65		
-1.3	2DLC	34894326	50.89		
-4.3	Both	50905835	68.69	14	50905835
-5.9	Both	50905835, 50932093	71.63		
-6.2	Gel	50905835	59.22		
-1.5	Gel	50905835	49.07		
-1.3	Gel	50905835	31.78		
-2.4	Gel	50905835	58.5		
-1.9	Gel	50905835, 27368855, 34911450, 509	57.22		
-2.5	Gel	50905835	46.87		
-1.4	Gel	50905835	30.9		
-2.5	2DLC	50905835	62.91		
-2.3	2DLC	50905835	58.5		
-4.5	2DLC	50905835	52.66		
-1.4	2DLC	50905835	67.11		
-4.8	2DLC	50905835	54.79		
-3.3	Gel	27368859	47.07	6	27368859

-2.8	Both	50926666, 50907203, 50938591, 3489	60.62	8	50926666
-6	Both	50926666	63.98		
-2	Both	50926666, 34897016, 50938591, 3753	64.54		
-3.9	Both	50926666	72.56		
-2.8	Gel	50926666	32.63		
-2.9	Gel	50926666, 50934003	47.93		
-5	Gel	50926666	57.3		
-2.5	Gel	50926666	55.35		
-1.3	Both	50907203, 34899528, 50933983, 3489	64.54	3	50907203
-1.9	2DLC	50907203, 34897016, 28564579, 5093	57.37		
-2.5	Gel	34897016, 37534762, 50933975, 5093	61.66	3	34899552
-2	Gel	50926668, 34899524	48.37	5	50926668
-5.2	Gel	50926668	61.44		
-2.3	Gel	50926668	51.19		
-1.6	Gel	37534762	33.57	4	37534762
-3.1	Both	28564579, 50933969	60.62	2	28564579
-2.3	Gel	34904236, 29293694, 50932369	62.12	4	34904236
-2.9	2DLC	34904236, 29293694, 34910572, 5093	51.89		
-1.6	2DLC	34904236	73.69		
-1.5	2DLC	34904236, 29293694, 34910572, 5093	61.48		
-1.4	Gel	29293694, 50932369	71.83	4	29293694
-5.9	Both	50920049, 34907668, 51038251, 2936	56.15	10	50920049
-7.3	Both	50920049	57.45		
-6	Both	50920049	65.04		
-2	Both	50920049	64.55		
-12.1	Both	50920049	56.43		
-11.3	Gel	50920049	60.91		
-7.4	Gel	50920049	56.79		
-5.1	Gel	50920049	58.56		
-5.5	Gel	50920049	58.42		
-9.8	Gel	50920049, 34907668, 50540700, 5072	61.44		
-2.1	2DLC	34907668	67.13	5	34907668
-9.1	2DLC	34907668	57.79		
-2.3	2DLC	34907668	56.21		
-6.2	Both	51038251, 29367479	56.4	7	51038251
-4.9	Both	51038251, 29367479	55.26		
-4	Both	51038251	61.42		
-2.7	Both	51038251, 29367479	59.81		
-2.7	Gel	51038251, 29367479	55.13		

-4.1	Gel	51038251	60.09		
-7.8	Both	29367569, 53982302	55.66	7	29367569
-2.1	Both	29367569, 53982302	59.37		
-4.1	Both	29367569, 53982302	65.27		
-8	Both	29367569, 53982302, 34894174, 348	56.81		
-3.4	Gel	29367569, 53982302, 34904234	31.17		
-3.3	2DLC	29367569, 53982302	56.23		
-3.6	2DLC	29367569, 53982302	59.7		
-1.9	2DLC	34904234	54.67	2	34904234
-3.2	Both	52076761	50.67	17	52076761
-3.8	Both	52076761	67.42		
-4.1	Both	52076761, 50912565	79.87		
-3.4	Both	52076761, 50912565, 50945895	64.04		
-4.8	Both	52076761, 50912565	65.26		
-2.7	Both	52076761, 29367509, 50912565	56.35		
-5.7	Both	52076761, 29367509, 50912565	64.33		
-8.2	Both	52076761, 50912565	64.71		
-3.9	Gel	52076761	64.94		
-2.1	Gel	52076761, 29367509, 50912565	53.5		
-9.3	Gel	52076761	53.59		
-4.3	Gel	52076761	50.47		
-2	Gel	52076761	52.32		
-7.9	Gel	52076761, 29367509, 50912565	59.44		
-2.7	Gel	52076761	30.37		
-1.9	Gel	52076761	33.61		
-1.9	2DLC	52076761	58.3		
-1.9	Both	50508194, 50944061	58.26	12	50508194
-3	Both	50508194, 29371755, 50944059	61.52		
-3.9	Gel	50508194, 50944061	56.08		
-6	Gel	50508194, 50944061	66.41		
-1.2	Gel	50508194, 50944061	48.63		
-2.4	Gel	50508194, 29371755	53.35		
-3.3	Gel	50508194, 50944061	32.23		
-2.4	Gel	50508194, 50944061	42.82		
-3.8	2DLC	50508194, 29371755	60.6		
-1.7	2DLC	50508194, 29371755, 50944059	56.09		
-6.3	2DLC	50508194, 29371755, 50944059	64.17		
-1.5	2DLC	50508194, 29371755, 50944059	53.93		
-7.7	Both	51963280, 29370368	53	5	51963280
-5.2	Both	51963280	59.66		
-5.1	Both	51963280, 29370368	54.13		
-7.1	Both	51963280	54.75		
-7.6	2DLC	51963280	61.09		

-3.3	Both	31432331	54.01	9	31432331
-2.2	Both	31432331	65.2		
-4	Gel	31432331	76.72		
-1.9	Gel	31432331	47.71		
-2.5	2DLC	31432331	52.22		
-1.6	2DLC	31432331	54.32		
-3.2	2DLC	31432331	50.2		
-3	2DLC	31432331	51.06		
-2.6	2DLC	31432331	56.21		
-4.2	Gel	31433081	54.36	3	31433081
-3.9	2DLC	31433081	52.8		
-5	2DLC	31433081	63.7		
-3.1	Gel	50916185, 32483423	86.64	8	50916185
-8.8	Gel	50916185	45.75		
-1.1	Gel	50916185, 32483423	78.12		
-1	Gel	50916185, 32483423, 34902268	115.33		
-3.4	2DLC	50916185, 32483423	60.61		
-3	2DLC	50916185, 32483423	66.38		
-2.1	2DLC	50916185	54.45		
-1.2	2DLC	50916185	63.35		
-10.3	Both	50938349, 33694268	64.06	3	50938349
-4.8	Both	50938349	57.93		
-12.6	Both	50938349, 33694268	64.5		
-1.4	Gel	34893994	56.58	3	34893994
-3	2DLC	34893994	60.05		
-4	2DLC	34893994	78.19		
-2.7	Both	55769773, 34894182	64.65	5	55769773
-4.2	Both	55769773, 34894182	58.37		
-4.9	Both	55769773	66.06		
-1.9	Gel	55769773, 34894182	59.3		
-1.7	2DLC	55769773, 34894182	64.32		
-1.8	Gel	34894708	51.37	4	34894708
-2.1	2DLC	34894708	59.65		
-2.8	2DLC	34894708	49.82		
-1.9	2DLC	34894708	58.55		
-6.4	Both	34894718	60.05	3	34894718

-3.8	2DLC	34894718	59.47		
-3.9	2DLC	34894718	58.19		
-6.7	Both	34895194	57.5	8	34895194
-3.9	Both	34895194	63.89		
-4.8	Gel	34895194	63.05		
-3.4	2DLC	34895194	60.91		
-4	2DLC	34895194	62.68		
-1.6	2DLC	34895194	57.99		
-2.4	2DLC	34895194	58.62		
-1.7	2DLC	34895194	62.58		
-4	Gel	34895614, 55770095	51.94	5	34895614
-3.9	Gel	34895614, 55770095	57.2		
-6.3	2DLC	34895614, 55770095	61.3		
-4.1	2DLC	34895614, 55770095	56.08		
-5.7	2DLC	34895614, 55770095	75.3		
-3.3	Both	34895718	57.47	6	34895718
-7.3	Gel	34895718	53.27		
-2.9	Gel	34895718	48.5		
-3.4	Gel	34895718	45.67		
-3.4	Gel	34895718, 31429830, 31429832, 349(	48.08		
-2.8	2DLC	34895718	54.1		
-4.7	Both	34897628	52.34	2	34897628
-3.6	2DLC	34897628	64.9		
-2.6	Gel	34897646	63.05	3	34897646
-3.7	2DLC	34897646	60.05		
-1.5	2DLC	34897646	73.29		
-3.9	Both	34897712	49.84	9	34897712
-3.5	Both	34897712	50.83		
-3.8	Both	34897712	81.85		
-6.8	Both	34897712	74.95		
-8.6	Both	34897712	66.4		
-7.4	Both	34897712	59.37		
-6.3	Both	34897712	53.27		
-2.5	Gel	34897712	31.73		
-5.2	2DLC	34897712	51.91		
-3.1	Both	34897868	65.53	2	34897868
-1.6	2DLC	34897868	53.3		

-2.2	Both	34897922	57.17	4	34897922
-5	Gel	34897922	33.87		
-13.1	Gel	34897922	48.41		
-7	2DLC	34897922	53.91		
-2.3	Both	55775318, 34898044, 55775316	60.84	3	55775318
-9.3	2DLC	55775318, 34898044, 55775316	64.77		
-5.5	2DLC	55775318, 34898044	49.24		
-4.9	Both	50511366, 34900346, 34903082, 349(	56.07	2	50511366
-3.4	Both	50511366, 34900346, 34903082, 349(	63		
-1.9	Both	34901804	54.98	3	34901804
-2.3	Gel	34901804	62.35		
-1.9	2DLC	34901804	60.41		
-2.6	Gel	34902004	30.25	3	34902004
-4.5	2DLC	34902004	57.17		
-3.9	2DLC	34902004	57.05		
-2.7	Both	34902210	66.52	12	34902210
-3.7	Both	34902210	59.26		
-6.7	Both	34902210	54.74		
-4.9	Both	34902210	58.11		
-4.4	Gel	34902210	56.82		
-2.7	Gel	34902210	60.66		
-3.8	Gel	34902210	0.57		
-4	Gel	34902210	115.81		
-8.2	Gel	34902210	98.14		
-4	Gel	34902210	31.74		
-2.5	2DLC	34902210, 34913506	58.5		
-2.2	2DLC	34902210	65.85		
-4.2	Gel	34902474	59.19	5	34902474
-2.1	2DLC	34902474	59.72		
-2.3	2DLC	34902474	52.01		
-2.6	2DLC	34902474	70.85		
-7.1	2DLC	34902474	52.47		
-3.1	Gel	34902852, 34894960	56.16	4	34902852
-3.1	Gel	34902852, 34894960, 47499876, 515(	71.91		
-5.7	2DLC	34902852, 34894960	59.22		
-4.6	2DLC	34902852	61.97		

-5.1	Both	34904136	81.17	5	34904136
-6.1	Both	34904136	58.25		
-3.3	Both	34904136	66.81		
-3.8	Gel	34904136	49.53		
-6.4	2DLC	34904136	55.82		
-4.1	Both	34905784	58.64	4	34905784
-3.5	2DLC	34905784	57.45		
-4.1	2DLC	34905784	63.6		
-2.7	2DLC	34905784	56.89		
-3.1	Both	34906196	67.59	4	34906196
-8.6	Both	34906196	53.46		
-2.7	Gel	34906196	29.6		
-2.9	Gel	34906196	50.2		
-2	Both	34906860	59.77	7	34906860
-4.5	Gel	34906860	60.85		
-3	2DLC	34906860	50.31		
-5.8	2DLC	34906860	57.28		
-3.8	2DLC	34906860	50.39		
-5.2	2DLC	34906860	61.13		
-2.7	2DLC	34906860	58.67		
-2.5	Both	34907656	59.36	2	34907656
-3.7	2DLC	34907656	52.84		
-4.5	2DLC	52076051	70.11	6	52076051
-4.2	2DLC	52076051, 50252111	54.14		
-2.3	2DLC	52076051, 34909290	61.89		
-2.9	2DLC	52076051	53.78		
-2.4	2DLC	52076051	60.62		
-1.8	2DLC	52076051, 34909290	54.14		
-1.5	2DLC	50252111	66.61	5	50252111
-1.9	2DLC	50252111	50.16		
-2.7	2DLC	50252111	55.99		
-2	2DLC	50252111	60.03		
-5.4	Both	34909360	52.72	6	34909360
-1.6	Both	34909360, 11667.m05279|Os	50.8		
-4.9	Gel	34909360	61.75		
-2.5	2DLC	34909360	50.38		
-2	2DLC	34909360	56.5		
-2.7	2DLC	34909360	55.02		

-1.8	Both	34909624	55.49	8	34909624
-8.9	Gel	34909624	102.41		
-3.6	Gel	34909624	45.56		
-2.5	Gel	34909624	119.37		
-3.4	Gel	34909624	71.58		
-1.3	2DLC	34909624	64.22		
-4	2DLC	34909624	63.82		
-2	2DLC	34909624	57.21		
-4.1	Gel	34909896	48.73	4	34909896
-2.6	2DLC	34909896	63.69		
-5.6	2DLC	34909896	72.48		
-4.7	2DLC	34909896	64.87		
-7.9	Both	34911220	53.76	5	34911220
-2.3	Both	34911220	52.82		
-1.5	Gel	34911220	56.29		
-1.7	Gel	34911220	58.43		
-2.4	Gel	34911220	52.73		
-2.2	Gel	34911910	76.28	3	34911910
-2.5	2DLC	34911910	72.51		
-7.9	2DLC	34911910	68.55		
-5.3	Both	53793399, 34912508	67.39	5	53793399
-5.3	Gel	53793399, 34912508	68.35		
-8.1	Gel	53793399, 34912508	62.2		
-3.5	Gel	53793399, 34912508	29.33		
-1.5	2DLC	53793399, 34912508	60.15		
-3.3	Both	34913548	65.28	2	34913548
-2.6	2DLC	34913548	62.16		
-4	Both	34913832	73.74	4	34913832
-1.3	Gel	34913832	48.21		
-1.8	2DLC	34913832	51.54		
-1.7	2DLC	34913832	53.79		
-1.6	Gel	34914314, 52075791	31.54	4	34914314
-3.8	2DLC	34914314	50.01		
-2.8	2DLC	34914314	62.78		
-4.3	2DLC	34914314, 52075791	66.32		

-1.3	Both	50931891, 37530902, 32966059, 349	50.31	4	50931891
-3.6	2DLC	50931891	60.16		
-3.7	2DLC	50931891	67.4		
-1.3	2DLC	50931891	72.45		
-3	2DLC	37530902, 34913760, 53793509, 349	58.46	2	37530902
-2.7	Gel	37534296	31.89	4	37534296
-3.5	2DLC	37534296	76.76		
-1.8	2DLC	37534296	67.36		
-2.4	2DLC	37534296	59.21		
-4.3	Both	37535238	58.83	3	37535238
-4.2	Gel	37535238	62.61		
-2.7	2DLC	37535238	54.84		
-8.8	Both	52854318, 50924762, 38679443, 509	51.89	11	52854318
-2.4	Both	52854318, 50924762, 38679443, 509	70.39		
-6.9	Both	52854318, 50924762	70.11		
-6.6	Gel	52854318, 50924762	50.75		
-1.3	Gel	52854318, 50924762, 38679443, 509	30.42		
-3.1	Gel	52854318, 50924762	57.46		
-2.7	Gel	52854318, 50924762, 38679443, 509	50.15		
-4.2	Gel	52854318, 50924762, 38679443, 509	59.19		
-2.9	Gel	52854318, 50924762, 38679443, 509	51.7		
-3.3	Gel	52854318, 50924762	54.22		
-2.1	Gel	52854318, 50924762, 38679443, 509	66.89		
-7.6	Both	38679443, 50941595	71.28	9	38679443
-3.4	Gel	38679443, 50941595	54.94		
-3.6	Both	39104468, 50725877, 50725880, 509	62.16	2	39104468
-1.5	2DLC	39104468, 50725877, 50725880, 509	56.95		
-7.1	Both	50928545	56.32	12	50928545
-3.9	Both	50928545	53.57		
-3.4	Both	50928545	45.46		
-4.5	Gel	50928545	65.7		
-2.3	Gel	50928545	49.04		
-1.3	Gel	50928545	60.5		
-2.8	Gel	50928545	54.48		
-4	Gel	50928545	38.33		
-3.7	Gel	50928545, 50252047	34.13		
-3.1	Gel	50928545, 50252047, 50947627	48.26		
-3.6	2DLC	50928545	67.61		
-4.2	2DLC	50928545	50.28		

-4.3	Both	50252047	55.93	7	50252047
-5.6	2DLC	50252047	49.54		
-2.1	2DLC	50252047	53.57		
-2.5	2DLC	50252047	52.1		
-3.7	2DLC	50252047	49.98		
-2.9	Both	50947627	59.96	2	50947627
-3.1	Both	50252095	51.59	3	50252095
-2	Gel	50252095	31.06		
-2.2	2DLC	50252095	61.64		
-5	Both	50252299	56.77	3	50252299
-5.3	Both	50252299	64.16		
-1.5	Gel	50252299	47.28		
-5.5	Both	50252693	63.75	13	50252693
-5.4	Both	50252693	68.2		
-9.6	Both	50252693	61.05		
-7.7	Both	50252693	71.25		
-11.9	Both	50252693	60.85		
-7.4	Both	50252693	66.22		
-3.7	Both	50252693	74.89		
-6.6	Both	50252693, 27368861, 34913544	69.3		
-3.8	Gel	50252693	29.97		
-2.3	Gel	50252693	47.1		
-4.5	Gel	50252693	47.82		
-3	Gel	50252693	34.45		
-3.2	Gel	50252693	73.46		
-4.7	Both	50253149	53.95	3	50253149
-8.3	Gel	50253149	58.54		
-4	2DLC	50253149	56.69		
-1.5	Both	50300541, 50300550, 50922529, 509	58.28	7	50300541
-2.9	Both	50300541	56.74		
-4.7	Both	50300541	55.85		
-9.1	Both	50300541	69.93		
-2.2	Gel	50300541	60.27		
-3	Gel	50300541	56.13		
-3.7	Gel	50300541	70.42		
-1	Gel	50300550	60.27	2	50300550
-3.1	Both	50725436	53.39	4	50725436

-2.7	Both	50725436	64.66		
-1.3	Gel	50725436	49.59		
-2.5	Gel	50725436	61.36		
-4.4	Both	50932687, 50878427	55.45	6	50932687
-6.2	Both	50932687, 50878427	53.51		
-2.2	Both	50932687, 50878427	53.49		
-2.9	Gel	50932687, 50878427	46.1		
-2.2	2DLC	50932687, 50878427, 34911252	52.11		
-2.8	2DLC	50932687, 50878427	68.8		
-5.4	Both	50881461	53.92	3	50881461
-14.9	Gel	50881461	91.4		
-3	2DLC	50881461	59.3		
-2.4	Both	50882442	63.19	4	50882442
-5.3	Both	50882442	49.93		
-1.6	Gel	50882442	54.38		
-2.4	2DLC	50882442	68.52		
-3.2	Both	50898642	57.99	6	50898642
-2.4	Both	50898642	62.27		
-3.5	Gel	50898642	58.32		
-1.3	2DLC	50898642	60.39		
-3.4	2DLC	50898642	59.82		
-3.2	2DLC	50898642, 34898852	50.61		
-3.5	Both	50898796	54.35	16	50898796
-4.4	Both	50898796	55.76		
-2.4	Both	50898796, 50935575, 8699602, 1876	65.62		
-3.7	Gel	50898796	57.29		
-4.1	Gel	50898796	54.68		
-5.3	Gel	50898796	62.27		
-2.4	Gel	50898796	62.42		
-3.5	Gel	50898796	48.75		
-4.5	Gel	50898796	59.11		
-4.1	Gel	50898796	64.8		
-3.7	Gel	50898796	59.22		
-8.6	Gel	50898796	58.69		
-1.4	Gel	50898796, 50904833	58.76		
-2.1	Gel	50898796	32.89		
-1.5	2DLC	50898976	62.43		
-3.2	2DLC	50898976	65.35		
-4.5	Both	50900394	65.71	4	50900394
-1.8	Gel	50900394	52.79		

-1.3	Gel	50900394, 50510110, 50926616, 5094	56.24		
-3.4	2DLC	50900394	58.67		
-5.1	2DLC	50926616	57.78	2	50926616
-2.9	Both	50904361	53.81	8	50904361
-6.4	Both	50904361	77.01		
-2.7	Gel	50904361	56.13		
-3.7	Gel	50904361	75.47		
-2.5	Gel	50904361	52.64		
-1.6	Gel	50904361	54.83		
-1.5	Gel	50904361	57.98		
-1.8	2DLC	50904361	54.59		
-5	Both	50905193	59.24	3	50905193
-3	2DLC	50905193	63.95		
-4	2DLC	50905193	61.17		
-4.6	Gel	52076544	55.82	4	52076544
-5.1	2DLC	52076544, 50905557	55.85		
-4.5	2DLC	52076544, 50905557	64.16		
-2.8	2DLC	52076544, 50905557	59.71		
-5.5	Both	50906955, 50918085, 50918087	57.4	5	50906955
-2	Both	50906955, 50918085, 50918087	55.45		
-3.4	Both	50906955	62.37		
-3.1	2DLC	50906955, 50918085, 50918087	55		
-6.1	2DLC	50906955, 50918085, 50918087	59.41		
-1.7	Gel	50918085, 50918087	54.04	7	50918085
-4.5	Gel	50918085, 50918087	63.41		
-2.2	2DLC	50918085, 50918087	77.24		
-4.7	Both	50906969	55.43	2	50906969
-4.5	2DLC	50906969	72.43		
-2	Gel	50909007, 50921395, 34909390, 3491	33.07	3	50909007
-1.6	2DLC	50909007, 50921395	61.11		
-3.2	2DLC	50909007, 50921395	67.09		
-6.1	Both	50909927	52.32	20	50909927
-3.1	Both	50909927, 50909929	56.89		
-8.8	Both	50909927	63.02		
-4.8	Both	50909927	53.29		
-3.5	Both	50909927	65.31		

-3	Both	50909927	61.07		
-2.8	Both	50909927	56.54		
-2.4	Both	50909927	68.2		
-6.4	Both	50909927	69.71		
-3.2	Gel	50909927	51.69		
-2.6	Gel	50909927	46.19		
-4.1	Gel	50909927	72.01		
-6.2	Gel	50909927	68.86		
-8.5	Gel	50909927	57.61		
-3.4	Gel	50909927, 50909929	62.72		
-5	Gel	50909927	61.19		
-8.4	Gel	50909927	76.46		
-3	Gel	50909927, 50909929	50.94		
-4.7	Gel	50909927, 50909929	65.15		
-9.9	Gel	50909927	81.89		
-3.6	Both	50910954	51.65	4	50910954
-5.1	Gel	50910954	24.56		
-4.1	2DLC	50910954	63.94		
-5.2	2DLC	50910954	59.06		
-1.7	Gel	50911703, 50911701	56.4	10	50911703
-3	Gel	50911703, 50911701	48.7		
-3.5	Gel	50911703	47.96		
-2.3	Gel	50911703, 50911701	47.99		
-3.3	Gel	50911703, 50911701	56.47		
-1.6	Gel	50911703	71.2		
-1.4	Gel	50911703	47.91		
-2.4	2DLC	50911703	59.28		
-4.1	2DLC	50911703	77.74		
-2	2DLC	50911703, 50911701	69.53		
-6.4	Gel	50915428	25.11	3	50915428
-4.9	2DLC	50915428	67.13		
-2.7	2DLC	50915428	48.58		
-4	Both	50915532	60.96	7	50915532
-6.3	Both	50915532	67.68		
-5	Gel	50915532	48.45		
-7.3	Gel	50915532	53.83		
-3.3	Gel	50915532	50.81		
-3.9	Gel	50915532	62.2		
-4.2	Gel	50915532	50.65		
-2.3	Both	50918083	50.11	6	50918083
-9	Gel	50918083	26.12		
-1.3	Gel	50918083	29.57		

-1.4	Gel	50918083	31.66		
-2	2DLC	50918083	72.07		
-5.6	2DLC	50918083	76.12		
-4.8	Both	50918229	67.86	14	50918229
-2.7	Both	50918229, 22797099	66.38		
-9.1	Gel	50918229, 13324783	50.21		
-5.2	Gel	50918229, 22797099	91.32		
-5.7	Gel	50918229, 13324783	88.22		
-5.6	Gel	50918229, 22797099	108.11		
-2.5	Gel	50918229, 22797099	74.37		
-4.2	Gel	50918229, 13324783	98.8		
-2.5	Gel	50918229	104.6		
-2.2	Gel	50918229, 13324783	78.92		
-5.5	Gel	50918229	58.74		
-4	Gel	50918229, 22797099	0.75		
-3.3	2DLC	50918229	55.29		
-2.2	2DLC	50918229, 13324783	59.99		
-3.3	Both	50918255	66.47	9	50918255
-9.4	Both	50918255	54.14		
-3.6	Both	50918255	54.02		
-7.2	Both	50918255	73.08		
-7.3	Both	50918255	57.94		
-2.8	Gel	50918255	47.96		
-11.9	Gel	50918255	29.32		
-5	Gel	50918255	74.26		
-2.2	2DLC	50918255	53.04		
-4.4	Both	50918269	61.82	4	50918269
-2.3	Gel	50918269	51.66		
-1.3	2DLC	50918269, 78709029, 53793520	57.55		
-4.4	2DLC	50918269	54.68		
-2.9	Both	50919773	70.9	3	50919773
-1.5	2DLC	50919773	66.66		
-1.4	2DLC	50919773	65.71		
-2.3	Gel	50920373	31.17	5	50920373
-1.6	2DLC	50920373	54.85		
-3.6	2DLC	50920373	66.74		
-4.7	2DLC	50920373, 51854289	67.18		
-2.8	2DLC	50920373	57.88		
-5.5	Both	50921575	49.28	5	50921575
-3.6	Both	50921575	63.93		

-2.1	Gel	50921575	75.76		
-3	Gel	50921575	59.21		
-3.2	2DLC	50921575	68.55		
-2.8	Both	50921619, 50936347	68.55	6	50921619
-3.3	Both	50921619	59.7		
-3.6	Gel	50921619	31.43		
-1.9	Gel	50921619, 50921617	56.4		
-3.3	2DLC	50921619, 50936347	56.91		
-3.2	2DLC	50921619, 50921617	58.42		
-2.8	Both	50922337	52.05	3	50922337
-5.7	Both	50922337	56.33		
-6.1	Both	50922337	52.38		
-3.1	Both	50924021	67.79	5	50924021
-3.6	2DLC	50924021	52.01		
-5.8	2DLC	50924021	53.25		
-4.4	2DLC	50924021	53.72		
-7.1	2DLC	50924021	69.13		
-3.7	Both	50924234	55.73	4	50924234
-3.3	Both	50924234	54.63		
-3.1	2DLC	50924234	71.99		
-2.3	2DLC	50924234	61.84		
-5.2	Both	50925336	53.47		
-2.5	Both	50925336	68.06		
-3.7	Gel	50925336	56.05		
-3.2	2DLC	50925336	57.11	7	50925336
-6.3	2DLC	50925336	70.65		
-2.1	2DLC	50925336	57.78		
-5.1	2DLC	50925336	60.34		
-4.7	Both	50928109	63.94	8	50928109
-3	Both	50928109	68.37		
-5	Both	50928109	75.46		
-6.4	Gel	50928109	44.55		
-5.7	Gel	50928109	29.36		
-11	Gel	50928109	50.25		
-4	Gel	50928109	61.08		
-3.5	Gel	50928109	33.89		
-5.9	Both	50928147	65.42	13	50928147
-5.5	Both	50928147	61.42		

-6	Both	50928147	56.36		
-4.4	Both	50928147	68.29		
-6.7	Both	50928147	59.35		
-7.8	Both	50928147	56.26		
-6.5	Both	50928147	58.12		
-1.9	Both	50928147	52.2		
-5.1	Both	50928147	55.62		
-3.2	Gel	50928147	62.34		
-4.6	Gel	50928147	48.8		
-5.2	Gel	50928147	52.2		
-7.3	2DLC	50928147	65.51		
-3.1	Gel	50928731	62.73	3	50928731
-2.2	2DLC	50928731, 50928737	58.64		
-4.2	2DLC	50928731, 50928737, 50928735, 5092	63.28		
-2.2	2DLC	50928735	58.64	2	50928735
-1.8	Both	50929141	58.69	3	50929141
-2.3	Gel	50929141	50.99		
-1.1	2DLC	50929141	62.27		
-3.8	Both	50929267	48.92	3	50929267
-1.9	2DLC	50929267	60.55		
-1.8	2DLC	50929267	64.36		
-9.5	Both	50929717	51.97	4	50929717
-2.9	2DLC	50929717, 50929719	64.62		
-4.5	2DLC	50929717, 50929719	53.39		
-2.7	2DLC	50929717	60.77		
-1.6	Gel	50929759	62.63	4	50929759
-2.3	2DLC	50929759	53.62		
-3.1	2DLC	50929759, 51963410	54.97		
-1	2DLC	50929759	61.95		
-5.1	Both	50929765	62.1	9	50929765
-3.9	Both	50929765	62.08		
-9.6	Both	50929765	72.52		
-5.3	Both	50929765	59.26		
-4	Both	50929765	56.51		
-17.7	Both	50929765	57.37		
-4.4	Gel	50929765	30.4		
-5.1	2DLC	50929765	55.94		
-2.3	2DLC	50929765	49.99		

-4.2	Both	50929789	69.48	2	50929789
-5.4	2DLC	50929789	62.57		
-4	Both	50932159	55.99		50932159
-3.8	Both	50932159	55.46		
-5.5	2DLC	50932159	58.56		
-6.1	2DLC	50932159	62.08		
-2.5	2DLC	50932159	68.97		
-2.5	Both	50932725	57.45	7	50932725
-3.9	Both	50932725	54.54		
-4.3	Both	50932725	56.86		
-2.6	Gel	50932725	59.87		
-2.4	Gel	50932725	51.88		
-1.1	Gel	50932725, 34911188	52.97		
-1.2	Gel	50932725	52.2		
-2.7	Gel	34911188	28.22	2	34911188
-2.4	Gel	50933663, 51963236	36.18	3	50933663
-6.9	2DLC	50933663, 51963236	58.99		
-6.4	2DLC	50933663, 51963236	73.95		
-5.2	Both	50934021, 50934023	66.21	3	50934021
-5.3	Both	50934021, 50934023	53.69		
-3.6	Gel	50934021, 50934023	53.39		
-5.7	Both	50934027, 8132685	68.13	5	50934027
-4.9	Both	50934027	55.47		
-2.1	Gel	50934027, 8132685	50.75		
-3.7	Gel	50934027	62.55		
-2.4	2DLC	50934027	53.67		
-4.6	Both	50934165	69.11	6	50934165
-4.4	Gel	50934165	58.88		
-13	Gel	50934165	29.92		
-2.1	Gel	50934165	49.79		
-3.3	2DLC	50934165	55.9		
-1.9	2DLC	50934165	69.61		
-6.4	Both	50934423	61.1	5	50934423
-5	Both	50934423	59.31		
-3.6	Gel	50934423	47.66		
-4.5	2DLC	50934423	57.61		

-1.9	2DLC	50934423	58.72		
-1.5	Gel	50935429	34.44	3	50935429
-2.7	2DLC	50935429	51.11		
-5.6	2DLC	50935429	54.17		
-4.3	2DLC	50935447, 50935449	75.86	2	50935447
-5.5	2DLC	50935447, 50935449, 11131838, 509[illegible]	59.02		
-2	Both	50936843	60.16	3	50936843
-3	2DLC	50936843	54.25		
-2.6	2DLC	50936843	59.48		
-7.5	Both	50936921	53.62	3	50936921
-5.7	Both	50936921	50.24		
-5.7	Gel	50936921	51.97		
-4.6	Both	50938247	64.42		50938247
-2.9	Gel	50938247	57.03		
-3.9	2DLC	50938247	51.15		
-1.4	2DLC	50938247, 50938243, 34899292	50.83		
-1.5	2DLC	50938247	66.13		
-4.5	Both	50938435	57.06	4	50938435
-2.3	Gel	50938435	49.45		
-4.4	2DLC	50938435	53.16		
-1.4	2DLC	50938435	70.67		
-6	Both	50939247	57.7	2	50939247
-4.2	2DLC	50939247	59.49		
-6	Both	50938623	58.07	3	50938623
-10	Both	50938623	72.08		
-3.4	Gel	50938623	77.58		
-2.1	Gel	50939299	52.16	3	50939299
-3.3	2DLC	50939299	60.98		
-2.7	2DLC	50939299	66.81		
-8.3	Both	50939365	48.37	2	50939365
-13	Both	50939365	76.47		

-2.9	Both	50940807	68.51	2	50940807
-4.3	2DLC	50940807, 50940809	53.12		
-4.2	Both	50942575	71.96	7	50942575
-5	Both	50942575	48.41		
-3.1	2DLC	50942575	54.48		
-1.7	2DLC	50942575	64.82		
-2.5	2DLC	50942575	68.02		
-4.9	2DLC	50942575	50.6		
-3.7	2DLC	50942575	63.32		
-6.1	Both	50944109	56.17	4	50944109
-10.7	Both	50944109	58.76		
-1.9	Gel	50944109	30.69		
-2	Gel	50944109	32.15		
-5.6	Both	50947381	75.13	6	50947381
-4.1	Both	50947381	61.56		
-2.8	Both	50947381	61.53		
-6.3	Both	50947381	66.6		
-2.9	Gel	50947381	57.03		
-1.8	Gel	50947381	51.62		
-5.3	Both	50947767	53.68	4	50947767
-7.3	Both	50947767	58.19		
-2.7	Gel	50947767	53.09		
-7.4	2DLC	50947767	66.36		
-4.1	Both	50948043	78.86	9	50948043
-3.1	Both	50948043	57.55		
-4.1	Both	50948043	62.67		
-5.2	Both	50948043	65.41		
-5	Both	50948043	59.9		
-4.2	Both	50948043	53.86		
-4.9	Gel	50948043	30.07		
-5.1	Gel	50948043	68.8		
-2.3	Gel	50948043	52.8		
-3.8	Gel	50948941, 2160712, 50949101	45.33	3	50948941
-6.2	2DLC	50948941	58.86		
-4.6	2DLC	50948941	58.02		
-11.8	Both	51091208	61.43	2	51091208
-4.2	Both	51091208	60.2		

-5.3	Both	51963264	58.6	4	51963264
-1.5	Gel	51963264	60.86		
-1.3	2DLC	51963264	47.6		
-2.1	2DLC	51963264	47.37		
-1.9	Both	51963322	59.45	3	51963322
-2	Gel	51963322	55.03		
-3.9	2DLC	51963322	62.39		
-8.3	Both	51964944	60.58	3	51964944
-3.6	Both	51964944	74.33		
-4.7	Both	51964944	69.23		
-5.2	Both	52076021	66.43	4	52076021
-2.1	Gel	52076021	34.12		
-1.7	Gel	52076021	29.62		
-2.7	2DLC	52076021	63.35		
-3.3	Both	52353695, 50945715	53.46	6	52353695
-2.6	Gel	52353695	51.77		
-4.3	2DLC	52353695	65.41		
-1.6	2DLC	52353695	55.65		
-2.6	2DLC	52353695	65.44		
-2.6	2DLC	52353695	63.65		
-5	Both	78708737	49.44	5	78708737
-4.6	Both	78708737	56.33		
-4.4	Both	78708737	62.09		
-8.9	Gel	78708737	63.99		
-1.9	2DLC	78708737	74.92		
-4.3	Both	78709035	55.28	3	78709035
-2.2	2DLC	78709035	73.16		
-5	2DLC	78709035	82.83		
-3.6	Both	11668.m00920|Os	54.91	6	11668.m00920
-3.2	Both	11668.m00920|Os	53.02		
-6.9	Both	11668.m00920|Os	53.66		
-2.4	Gel	11668.m00920|Os	30.54		
-4.7	Gel	11668.m00920|Os	47.85		
-2.7	2DLC	11668.m00920|Os	53.98		

-2.1	Both	11668.m01281|Os, 11668.m01282|Os	75.04	5	11668.m01281
-3	Both	11668.m01281|Os, 11668.m01282|Os	49.95		
-1.1	Gel	11668.m01281|Os, 11668.m01282|Os	34.05		
-4.5	Gel	11668.m01281|Os, 11668.m01282|Os	30.41		
-1.8	Gel	11668.m01281|Os, 11668.m01282|Os	50.52		
-4.6	Gel	11669.m00136|Os, 11669.m00137|Os	57.6	7	11669.m00136
-4	Gel	11669.m00136|Os, 11669.m00137|Os	45.22		
-4.7	Gel	11669.m00136|Os, 11669.m00137|Os	51.72		
-5.4	Gel	11669.m00136|Os, 11669.m00137|Os	61.81		
-1.7	2DLC	11669.m00136|Os, 11669.m00137|Os	53.95		
-2	2DLC	11669.m00136|Os, 11669.m00137|Os	51.79		
-3.3	2DLC	11669.m00136|Os, 11669.m00137|Os	57.95		
-2.6	Both	11669.m00342|Os	63.14	2	11669.m00342
-2.8	2DLC	11669.m00342|Os	54.8		
-3.2	Both	11669.m01476|Os	70.09	13	11669.m01476
-2.4	Both	11669.m01476|Os	61.61		
-3.1	Both	11669.m01476|Os	65.52		
-5.9	Both	11669.m01476|Os	56.82		
-2.7	Gel	11669.m01476|Os	54.54		
-2	Gel	11669.m01476|Os	57.86		
-1.4	Gel	11669.m01476|Os	47.94		
-5.4	Gel	11669.m01476|Os	61.22		
-3	Gel	11669.m01476|Os	80.32		
-2.4	Gel	11669.m01476|Os	49.4		
-1.6	2DLC	11669.m01476|Os	82.77		
-5.7	2DLC	11669.m01476|Os	66.55		
-4.9	2DLC	11669.m01476|Os	55.81		
-2.7	Both	11669.m01571|Os	66.11	5	11669.m01571
-3	Both	11669.m01571|Os	58.09		
-3.1	Gel	11669.m01571|Os	51.58		
-3.2	Gel	11669.m01571|Os	54.61		
-2.7	Gel	11669.m01571|Os	56.51		
-4.6	Both	11669.m02421|Os	73.77	7	11669.m02421
-2.3	Gel	11669.m02421|Os	48.48		
-1.5	Gel	11669.m02421|Os	33.9		
-2.5	2DLC	11669.m02421|Os	58.81		
-2.3	2DLC	11669.m02421|Os	59.45		
-3.6	2DLC	11669.m02421|Os	84.22		
-2.7	2DLC	11669.m02421|Os	69.52		
-4.5	Both	11680.m00052|Os	57.72	6	11680.m00052

-8.1	Both	11680.m00052|Os	55.12		
-4.1	Both	11680.m00052|Os, 11680.m00053|Os	55.35		
-5	Gel	11680.m00052|Os, 11680.m00053|Os	59.17		
-2.3	Gel	11680.m00052|Os	57.1		
-6.6	2DLC	11680.m00052|Os, 11680.m00053|Os	58.18		
-4.9	Both	11680.m00133|Os	53.12	20	11680.m00133
-5.3	Both	11680.m00133|Os	57.77		
-3.5	Both	11680.m00133|Os	60.89		
-2.3	Both	11680.m00133|Os	52.07		
-2	Both	11680.m00133|Os	65.62		
-2.9	Both	11680.m00133|Os	61.37		
-1.7	Both	11680.m00133|Os	50.55		
-2.6	Both	11680.m00133|Os	68.4		
-5.7	Gel	11680.m00133|Os	94.99		
-1.3	Gel	11680.m00133|Os	56.27		
-2.7	Gel	11680.m00133|Os	77.33		
-1.6	Gel	11680.m00133|Os	115.33		
-6.6	Gel	11680.m00133|Os	58.67		
-2.7	Gel	11680.m00133|Os	76.59		
-4.6	2DLC	11680.m00133|Os	56.5		
-1.6	2DLC	11680.m00133|Os	62.8		
-2.9	2DLC	11680.m00133|Os	59.76		
-4.9	2DLC	11680.m00133|Os	58.51		
-2.3	2DLC	11680.m00133|Os	80.41		
-1.7	2DLC	11680.m00133|Os	53.9		
-3.1	Both	11680.m04826|Os	64.08	4	11680.m04826
-1.7	Gel	11680.m04826|Os	29.44		
-3.9	2DLC	11680.m04826|Os	53		
-3.4	2DLC	11680.m04826|Os	53.46		
-3.1	Both	11681.m02182|Os	61.74	7	11681.m02182
-2	Both	11681.m02182|Os	61.15		
-6.1	Gel	11681.m02182|Os	53.74		
-4	Gel	11681.m02182|Os	66.06		
-7.2	Gel	11681.m02182|Os	63.41		
-2.7	Gel	11681.m02182|Os	56.73		
-1.4	2DLC	11681.m02182|Os	59.89		
-2.9	Both	11682.m02598|Os	55.28	4	11682.m02598
-1.8	Gel	11682.m02598|Os	61.44		
-1.4	2DLC	11682.m02598|Os	56.62		
-2.1	2DLC	11682.m02598|Os	52.89		
-4.3	Both	11682.m03050|Os	60.32	2	11682.m03050
-1.7	Both	11682.m03050|Os	68.01		

-8.8	Gel	11686.m00020|Os, 11687.m00020|Os	50.16	5	11686.m00020
-1.9	2DLC	11686.m00020|Os, 11687.m00020|Os	53.33		
-2.5	2DLC	11686.m00020|Os, 11687.m00020|Os	64.8		
-5.2	2DLC	11686.m00020|Os	60.1		
-1.8	2DLC	11686.m00020|Os, 11687.m00020|Os	57.79		
-7.4	Both	11686.m00040|Os, 11687.m00038|Os	53.21	31	11686.m00040
-5.3	Both	11686.m00040|Os, 11687.m00038|Os	54.36		
-3	Both	11686.m00040|Os, 11687.m00038|Os	57.83		
-3.5	Both	11686.m00040|Os, 11687.m00038|Os	78.95		
-6	Both	11686.m00040|Os, 11687.m00038|Os	51.48		
-3.9	Both	11686.m00040|Os, 11687.m00038|Os	60.81		
-2.6	Both	11686.m00040|Os, 11687.m00038|Os	51.78		
-4	Both	11686.m00040|Os, 11687.m00038|Os	54.03		
-7.4	Both	11686.m00040|Os, 11687.m00038|Os	64.69		
-10.6	Both	11686.m00040|Os, 11687.m00038|Os	51.11		
-6.4	Both	11686.m00040|Os, 11687.m00038|Os	53.2		
-1.7	Both	11686.m00040|Os, 11687.m00038|Os	62.03		
-5	Both	11686.m00040|Os, 11687.m00038|Os	55.09		
-4.6	Both	11686.m00040|Os, 11687.m00038|Os	61.38		
-3.4	Both	11686.m00040|Os, 11687.m00038|Os	60.16		
-4.8	Gel	11686.m00040|Os, 11687.m00038|Os	97.75		
-3.8	Gel	11686.m00040|Os, 11687.m00038|Os	0.45		
-6.5	Gel	11686.m00040|Os, 11687.m00038|Os	89.57		
-6.5	Gel	11686.m00040|Os, 11687.m00038|Os	83.74		
-4	Gel	11686.m00040|Os, 11687.m00038|Os	92.83		
-1.1	Gel	11686.m00040|Os, 11687.m00038|Os	86.19		
-3.2	Gel	11686.m00040|Os, 11687.m00038|Os	96.8		
-3.4	Gel	11686.m00040|Os, 11687.m00038|Os	51.64		
-8.5	Gel	11686.m00040|Os, 11687.m00038|Os	89.62		
-1.8	Gel	11686.m00040|Os, 11687.m00038|Os	55.79		
-5.7	Gel	11686.m00040|Os, 11687.m00038|Os	84.45		
-1.6	Gel	11686.m00040|Os, 11687.m00038|Os	102.93		
-3.5	Gel	11686.m00040|Os, 11687.m00038|Os	92.49		
-2.4	2DLC	11686.m00040|Os, 11687.m00038|Os	54.18		
-1.3	2DLC	11686.m00040|Os, 11687.m00038|Os	67.8		
-2.8	2DLC	11686.m00040|Os, 11687.m00038|Os	50.72		
-3.5	Both	11686.m00076|Os	52.12	8	11686.m00076
-1.7	Both	11686.m00076|Os, 11687.m00064|Os	52.9		
-3.9	Both	11686.m00076|Os	55.32		
-6.5	Gel	11686.m00076|Os, 11687.m00064|Os	29.75		
-2.4	Gel	11686.m00076|Os, 11687.m00064|Os	49.85		
-1.9	2DLC	11686.m00076|Os, 11687.m00064|Os	53.84		
-6.6	2DLC	11686.m00076|Os	61.3		
-1.9	2DLC	11686.m00076|Os, 11687.m00064|Os	65.89		

-3.9	Both	11686.m00559|Os	62.55	3	11686.m00559
-6.5	2DLC	11686.m00559|Os	63.4		
-5.9	2DLC	11686.m00559|Os	48.51		
-2.7	Both	11686.m01769|Os	59.52	8	11686.m01769
-3.1	Both	11686.m01769|Os	61.62		
-4.9	Gel	11686.m01769|Os	49.3		
-4.3	Gel	11686.m01769|Os	57.57		
-5	Gel	11686.m01769|Os	30.31		
-2	Gel	11686.m01769|Os	37.27		
-2.4	2DLC	11686.m01769|Os	69		
-6.4	2DLC	11686.m01769|Os	56.93		
-3.2	Both	11686.m04099|Os	60.04	4	11686.m04099
-3.8	Gel	11686.m04099|Os	61.13		
-3.6	2DLC	11686.m04099|Os	55.25		
-1.8	2DLC	11686.m04099|Os	62.52		
-4.9	Both	11686.m04206|Os	54.97	2	11686.m04206
-3.3	Both	11686.m04206|Os	71.66		
-9.2	Both	11686.m04282|Os, 11686.m04283|Os	52.78	4	11686.m04282
-3.1	Gel	11686.m04282|Os, 11686.m04283|Os	48.42		
-6.5	2DLC	11686.m04282|Os	54.4		
-1.5	2DLC	11686.m04282|Os, 11686.m04283|Os	66.56		
-3.9	Both	11686.m04421|Os	52.45	4	11686.m04421
-3.1	Gel	11686.m04421|Os	50.4		
-4.3	Gel	11686.m04421|Os	32.89		
-2.9	2DLC	11686.m04421|Os	56.42		
-3.9	Both	11687.m02345|Os	54.43	11	11687.m02345
-5.1	Both	11687.m02345|Os	58.91		
-10.9	Both	11687.m02345|Os	62.13		
-5.7	Both	11687.m02345|Os	60.61		
-4.7	Both	11687.m02345|Os	68.05		
-4.5	Gel	11687.m02345|Os	64.76		
-2.6	Gel	11687.m02345|Os	69.56		
-9.3	Gel	11687.m02345|Os	52.58		
-1.8	Gel	11687.m02345|Os	51.5		
-3.7	Gel	11687.m02345|Os	62.15		
-3.1	Gel	11687.m02345|Os	62.49		
-5.2	Both	11687.m03236|Os	49.18	5	11687.m03236
-8.2	Both	11687.m03236|Os	57.72		

-3.2	Both	11687.m03236|Os	58.18		
-3.1	Gel	11687.m03236|Os	30.96		
-3	2DLC	11687.m03236|Os	57.16		
-2	Gel	50918345, 50919951, 77548871, 3143	56.44	3	50918345
-2.7	Gel	50918345, 50919951, 77548871, 2032	53.55		
-2.5	Gel	50918345, 50919951, 77548871, 2032	70.26		
-4.6	2DLC	34905850	63.41	2	34905850
-5	Both	218189, 248339, 34894792, 5072610	52.51	3	218189
-4.1	Gel	218189, 248339, 34894792, 5072610	45.01		
-2.1	Gel	218189, 248339, 34894792, 5072610	61.13		
-8.3	Both	50904851, 600769	60.44	3	50904851
-4.3	Gel	50904851, 600769	66.58		
-3.1	Gel	50904851, 600769	50.32		
-5.7	Gel	55167970, 862310, 600771	60.56	5	55167970
-1.5	Gel	55167970, 862310	61.81		
-3.7	Gel	55167970, 862310	68.22		
-2.6	Gel	55167970, 862310, 600771	55.65		
-2.4	2DLC	55167970, 862310	65.46		
-5.6	Both	50926368, 15705368, 2160782	59.84	3	50926368
-2.9	Gel	50926368, 15705368	50.72		
-2.8	Gel	50926368	48.93		
-3.1	Gel	37718774, 29370073	31.86	3	37718774
-4.7	Gel	37718774, 29370073	39.7		
-1.7	2DLC	37718774	61.98		
-4.9	Both	29467456, 50909815	52.78	2	29467456
-2.6	Gel	29467456, 50909815	34.79		
-2.5	Gel	31432145	30.13	5	31432145
-1.3	Gel	31432145	86.73		
-1.5	Gel	31432145	74.4		
-2.6	Gel	31432145	81.72		
-3.3	2DLC	31432145	62.83		
-1.9	Gel	34894634	65.05	4	34894634
-3.4	Gel	34894634	51.96		

-1.6	Gel	34894634, 34894624, 52076681	57.3		
-2.4	2DLC	34894634	78.04		
-4.7	Both	34903678	49.76	3	34903678
-11.9	Gel	34903678	77.95		
-3.8	Gel	34903678	66.87		
-2.9	Gel	34904142	54.5	4	34904142
-1.6	Gel	34904142	52.04		
-1.5	Gel	34904142	51.03		
-3.2	2DLC	34904142, 34904140	59.12		
-4.8	Gel	34913436	54.83	3	34913436
-5.3	Gel	34913436	55.11		
-2.2	2DLC	34913436	50.34		
-5.4	Both	50902148	63.25	9	50902148
-6.1	Gel	50902148	30.52		
-3	Gel	50902148	64.08		
-1.3	Gel	50902148	53.81		
-4.2	Gel	50902148	31.28		
-2.6	Gel	50902148, 55733912	31.16		
-3.7	Gel	50902148	48.55		
-3.2	Gel	50902148	69.06		
-2.9	Gel	50902148	33.28		
-3.5	Both	55733912	66.94	6	55733912
-7.2	Gel	55733912	29.15		
-3.3	Gel	55733912	69.26		
-4.9	Gel	55733912	50.69		
-2.1	Gel	55733912	51.13		
-5.6	Gel	50905421, 50924099	50.95	3	50905421
-3.4	Gel	50905421, 50924099	30.16		
-6.4	2DLC	50905421, 50924099	49.45		
-2.9	Both	50906319	86.32	3	50906319
-2.2	Gel	50906319	0.46		
-2.4	Gel	50906319	91.48		
-5.8	Both	50919181, 60543737	61.3	2	50919181
-1.4	Gel	50919181, 60543737	54.27		
-4.2	Both	50919991	53.61	2	50919991

-4.7	Gel	50919991	73.5		
-5.1	Both	50924430	68.62	3	50924430
-3.4	Gel	50924430	63.47		
-5	Gel	50924430	71.42		
-7.6	Both	50925761	74.42	2	50925761
-4.7	Gel	50925761	32.41		
-4	Both	50929201	57.62	2	50929201
-2.3	Gel	50929201	60.69		
-3.4	Both	50929405	82.29	5	50929405
-2.1	Gel	50929405	94.07		
-2.6	Gel	50929405	30.24		
-4.2	Gel	50929405	57.89		
-6.8	Gel	50929405	48.13		
-5.1	Both	50931101	73.25	3	50931101
-6	Gel	50931101	48.81		
-1.6	Gel	50931101	61.33		
-6.9	Both	50931845	57.62	6	50931845
-5.4	Gel	50931845, 34909240	60.66		
-1.7	Gel	50931845	50.35		
-2.8	Gel	50931845	67.83		
-2.2	Gel	50931845	48.89		
-2.2	Gel	50931845	55.5		
-2.2	Both	50931989	58.51	2	50931989
-3.2	Gel	50931989	57.01		
-2.2	Both	50934989	66.86	2	50934989
-2.1	Gel	50934989	34.37		
-1.1	Gel	50948989	47.45	3	50948989
-2.8	Gel	50948989	36.12		
-2.6	2DLC	50948989	58.77		
-2	Gel	51038046	53.11	5	51038046
-1.2	Gel	51038046	51.46		
-2	Gel	51038046	75.18		

-3.2	Gel	51038046	72.02		
-6.2	2DLC	51038046	58.34		
-1.5	Gel	51535686	85.76	4	51535686
-3.1	Gel	51535686	44.34		
-2.3	Gel	51535686	53.91		
-2.4	2DLC	51535686	51.5		
-6.7	Both	52077312	54.67	2	52077312
-5	Gel	52077312	58.94		
-5.4	Gel	52353491, 55168179	55.97	2	52353491
-6.6	Gel	52353491	52.6		
-2.2	Gel	54291762	54.85	3	54291762
-1.3	Gel	54291762	53.27		
-3.2	2DLC	54291762	63.47		
-2.2	Gel	50945431	59.95	3	50945431
-3.9	Gel	50945431	60.29		
-1.2	2DLC	50945431	65.18		
-3.4	Both	11668.m04421|Os	54.79	2	11668.m04421
-4.2	Gel	11668.m04421|Os	70.47		
-1.6	Gel	11669.m00259|Os	67.99	7	11669.m00259
-3.9	Gel	11669.m00259|Os	31.8		
-3	Gel	11669.m00259|Os	67.75		
-2.4	Gel	11669.m00259|Os	61.52		
-3	Gel	11669.m00259|Os	62.06		
-5.9	Gel	11669.m00259|Os	57.4		
-3.6	2DLC	11669.m00259|Os	65.38		
-2.6	Both	11686.m00773|Os	58.93	2	11686.m00773
-3.6	Gel	11686.m00773|Os	58.6		
-6.5	Both	11686.m01329|Os	56.34		
-1.5	Gel	11686.m01329|Os	54.89	3	11686.m01329
-1.4	Gel	11686.m01329|Os	61.97		
-6.4	Both	11687.m02188|Os	58.83	2	11687.m02188
-2	Gel	11687.m02188|Os	60.67		

-4.4	Gel	11687.m04496|Os	29.85	3	11687.m04496
-6.1	Gel	11687.m04496|Os	56.64		
-3.8	2DLC	11687.m04496|Os	62.74		
-5.4	2DLC	780372, 33113259, 37531422	53.91	5	780372
-4.7	2DLC	780372, 33113259, 37531422	61.84		
-3.8	2DLC	780372, 33113259, 37531422	62.17		
-3.8	2DLC	780372, 33113259, 37531422	55.37		
-3.4	2DLC	780372, 33113259, 37531422, 21672(	57.56		
-1.7	2DLC	1351014, 32489919, 50908507	59.67	3	1351014
-2.6	2DLC	1351014, 32489919, 50908507	56.03		
-1.6	2DLC	1351014, 32489919, 50908507	55.48		
-2.8	2DLC	8699600, 51090926	52.55	3	8699600
-2.2	2DLC	8699600, 1902903, 51090927	65.25		
-2.3	2DLC	8699600, 1902903, 51090927, 510909	52.75		
-2.8	2DLC	52353730, 2781433	54.27	2	52353730
-1.5	2DLC	52353730, 2781433	55.33		
-2.1	2DLC	15823775	57.46	3	15823775
-2.7	2DLC	15823775	63.82		
-1.6	2DLC	15823775	54		
-3.3	2DLC	18426983, 34538929, 50924015	50.68	3	18426983
-2	2DLC	18426983, 34538929, 50924015	51.59		
-2	2DLC	18426983, 34538929, 50924015	69.34		
-4.2	2DLC	50939837, 19070759	60.75	2	50939837
-1.5	2DLC	50939837, 19070759	60.78		
-1.7	2DLC	50948277	75.48	2	50948277
-1.2	2DLC	50948277	65.7		
-2	2DLC	29126358	50.06	3	29126358
-1.4	2DLC	29126358	53.41		
-3	2DLC	29126358	48.8		
-2.1	2DLC	29367605	49.49	2	29367605

-7.4	2DLC	29367605	46.55		
-3.1	2DLC	34015384, 50508139, 50943773	60.99	2	34015384
-1.9	2DLC	34015384, 50508139, 50943773	56.65		
-3.6	2DLC	34894982	60.83	2	34894982
-2.3	2DLC	34894982	51.31		
-1.5	2DLC	34895518	71.93	2	34895518
-4	2DLC	34895518	66.22		
-1.5	2DLC	34897368	57.43	2	34897368
-2.4	2DLC	34897368	55.36		
-1.4	2DLC	34897878	52.77	2	34897878
-3.4	2DLC	34897878, 31433684	58.1		
-3.9	2DLC	34898886	56.72	2	34898886
-3.2	2DLC	34898886	63.18		
-4.7	2DLC	34899282	50.71	3	34899282
-2.9	2DLC	34899282	66.27		
-2.1	2DLC	34899282	66.51		
-5.1	2DLC	34899766	54.13	2	34899766
-2.7	2DLC	34899766	62.83		
-3.1	2DLC	34902322, 50934997	58.56	2	34902322
-3.5	2DLC	34902322, 50934997	75.26		
-2.9	2DLC	34903888	64.01	3	34903888
-2.7	2DLC	34903888	56.45		
-3.5	2DLC	34903888	61.53		
-1.5	2DLC	34909816	60.53	3	34909816
-4.6	2DLC	34909816	64.75		
-2.4	2DLC	34909816	58.88		
-1.6	2DLC	34910878	58.61	2	34910878
-1.7	2DLC	34910878	60.72		

-1.6	2DLC	34911030	57.49	2	34911030
-1.3	2DLC	34911030	55.87		
-1.8	2DLC	34912966	66.35	3	34912966
-1.9	2DLC	34912966	54.54		
-2.5	2DLC	34912966	55.99		
-3.6	2DLC	34915072, 50252099, 53791616, 2463	54.27	2	34915072
-3.8	2DLC	34915072, 50252099, 53791616	58.83		
-2.9	2DLC	37531056	76.38	3	37531056
-4	2DLC	37531056	61.49		
-1.7	2DLC	37531056, 50726589, 50948267	67.54		
-2.9	2DLC	37536550	68.34	3	37536550
-3.7	2DLC	37536550	56.83		
-5.2	2DLC	37536550	55.75		
-1.5	2DLC	50252134	69.89	2	50252134
-4.5	2DLC	50252134	47.41		
-2.2	2DLC	50428634	54.03	2	50428634
-3.6	2DLC	50428634	51.99		
-2.6	2DLC	50509283, 50919973, 50935509	66.28	2	50509283
-1.5	2DLC	50509283, 50919287, 50919973, 5093	52.13		
-1.3	2DLC	50935131	52.57	2	50935131
-3.4	2DLC	50935131, 50919287	53.01		
-3	2DLC	50872461	49.15	2	50872461
-3.4	2DLC	50872461	45.63		
-3.3	2DLC	50899632	62.83	2	50899632
-2.2	2DLC	50899632	61.08		
-7	2DLC	50900844	52.1	2	50900844
-6.1	2DLC	50900844	65.19		

-4.5	2DLC	50901182, 50939157	50.91	3	50901182
-1.3	2DLC	50901182, 50939157	63.78		
-3.2	2DLC	50901182, 50939157	56.78		
-4.1	2DLC	50908213	49.98	3	50908213
-4.6	2DLC	50908213	64.2		
-7.2	2DLC	50908213	72.81		
-2.3	2DLC	50911657	62.47	2	50911657
-1.7	2DLC	50911657	55.71		
-2.2	2DLC	50912175	58.13	2	50912175
-2.3	2DLC	50912175	69.91		
-2.1	2DLC	50915418	58.23	2	50915418
-4.2	2DLC	50915418	51.77		
-4.1	2DLC	50915816	68.59	2	50915816
-2.9	2DLC	50915816	65.17		
-1.2	2DLC	50915848, 50915850	64.14	2	50915848
-3	2DLC	50915848, 50915850	59.88		
-1.7	2DLC	50917633	61.55	2	50917633
-5.5	2DLC	50917633	49.27		
-2.4	2DLC	50917709	66.32	2	50917709
-5.5	2DLC	50917709, 12039276	61.83		
-3.4	2DLC	50918233, 50918235, 50898730	60.67	3	50918233
-3.1	2DLC	50918233, 50918235	59.81		
-1.9	2DLC	50918233, 50918235	59.47		
-5.3	2DLC	50918839	49.55	2	50918839
-3.2	2DLC	50918839	54.67		
-2.5	2DLC	50921631	57.93	5	50921631
-4.4	2DLC	50921631	63.43		
-2.3	2DLC	50921631	56.03		
-2.4	2DLC	50921631	61		
-5.3	2DLC	50921631	70.19		

-2.3	2DLC	50925255	64.03	4	50925255
-4.5	2DLC	50925255	62.51		
-1.2	2DLC	50925255	65.44		
-5.7	2DLC	50925255	57.58		
-6.5	2DLC	50924844	58.06	2	50924844
-4	2DLC	50924844	57.38		
-2.5	2DLC	50928103	62.03	2	50928103
-3.8	2DLC	50928103	59.66		
-4.8	2DLC	50928559	48.29	3	50928559
-2.4	2DLC	50928559	57.26		
-7.1	2DLC	50928559	48.85		
-3.5	2DLC	50929237	73.97	2	50929237
-3.7	2DLC	50929237	73.06		
-3	2DLC	50929611	58.55	3	50929611
-4.7	2DLC	50929611	53.35		
-1.4	2DLC	50929611	60.96		
-1	2DLC	50929647	57.78	2	50929647
-2.4	2DLC	50929647	66.15		
-4.1	2DLC	50931507	49.61	2	50931507
-4.7	2DLC	50931507	63.58		
-2.4	2DLC	50932487	66.91	2	50932487
-1.8	2DLC	50932487	61.5		
-2.8	2DLC	50932629	63.3	3	50932629
-1.4	2DLC	50932629	53.39		
-2.4	2DLC	50932629, 34911436	59.03		
-3	2DLC	50934347	61.22	2	50934347
-2.9	2DLC	50934347	64.37		
-3.9	2DLC	50935149	65.33	4	50935149

-1.1	2DLC	50935149	53.83		
-2.4	2DLC	50935149	65.64		
-2.1	2DLC	50935149	68.72		
-3.8	2DLC	50936275	60.41	2	50936275
-1.5	2DLC	50936275	51.45		
-3.2	2DLC	50938011	51.34	2	50938011
-3.2	2DLC	50938011	66.7		
-2	2DLC	50938121	55.18	4	50938121
-2.3	2DLC	50938121	57.3		
-3	2DLC	50938121	58.46		
-2.7	2DLC	50938121	61.73		
-4.9	2DLC	50938337	60.24	3	50938337
-3.3	2DLC	50938337, 51964688	64.71		
-5.5	2DLC	50938337	62		
-1.9	2DLC	50939419	54.29	2	50939419
-1.8	2DLC	50939419	53.57		
-1.5	2DLC	50940005	62.61	2	50940005
-2.1	2DLC	50940005	59.75		
-4.8	2DLC	50944205	58.21	2	50944205
-1.9	2DLC	50944205, 50904347	53.92		
-4.7	2DLC	51978958	59.03	2	51978958
-2.9	2DLC	51978958, 34897236	66.26		
-1.6	2DLC	52076870	57.99	2	52076870
-4.7	2DLC	52076870	59.83		
-2.9	2DLC	52077261	56.33	2	52077261
-2.8	2DLC	52077261	62.7		
-2	2DLC	53370704	65.91	2	53370704
-4.7	2DLC	53370704	59.43		

-5.6	2DLC	53749329	50.62	3	53749329
-3	2DLC	53749329	65.78		
-4.3	2DLC	53749329	62.5		
-3	2DLC	53793132	56.49	2	53793132
-3.8	2DLC	53793132	51.24		
-1.7	2DLC	77553113, 37909690	59.67	2	77553113
-3	2DLC	77553113	52.12		
-8.5	2DLC	11667.m01330|Os	71.27	2	11667.m01330
-1.6	2DLC	11667.m01330|Os	58.24		
-2.4	2DLC	11669.m00272|Os	56.02	2	11669.m00272
-1.2	2DLC	11669.m00272|Os	55.14		
-3.8	2DLC	11669.m00521|Os	52.93	2	11669.m00521
-1.1	2DLC	11669.m00521|Os	52.04		
-3.6	2DLC	11669.m02225|Os	47.34	2	11669.m02225
-3	2DLC	11669.m02225|Os	54.53		
-5	2DLC	11670.m04510|Os	49.89	2	11670.m04510
-2.3	2DLC	11670.m04510|Os	60.92		
-2	2DLC	11673.m04140|Os	52.18	2	11673.m04140
-3.1	2DLC	11673.m04140|Os	69.72		
-1.1	2DLC	11676.m02587|Os	63.55	2	11676.m02587
-4.8	2DLC	11676.m02587|Os	65.63		
-2.2	2DLC	11682.m02375|Os	58.3	2	11682.m02375
-1.7	2DLC	11682.m02375|Os	59.34		
-2.1	2DLC	11682.m02850|Os	50.7	4	11682.m02850
-1.4	2DLC	11682.m02850|Os	61.77		
-3.4	2DLC	11682.m02850|Os	61.2		
-3.1	2DLC	11682.m02850|Os	54.97		
-9.6	2DLC	11682.m03044|Os	48.34	2	11682.m03044

-1.9	2DLC	11682.m03044|Os	63.86		
-2	2DLC	11686.m00444|Os, 11686.m00445|Os	63.33	3	11686.m00444
-3.9	2DLC	11686.m00444|Os, 11686.m00445|Os	57.29		
-3.7	2DLC	11686.m00444|Os, 11686.m00445|Os	64.93		
-2.3	2DLC	11686.m02865|Os	51.02	2	11686.m02865
-4.4	2DLC	11686.m02865|Os	58.76		
-3.6	2DLC	11686.m03694|Os, 11686.m03695|Os	57.47	2	11686.m03694
-4.4	2DLC	11686.m03694|Os, 11686.m03695|Os	50.21		
-3.8	2DLC	11686.m03743|Os	64.57	3	11686.m03743
-2.5	2DLC	11686.m03743|Os	52.81		
-2.1	2DLC	11686.m03743|Os	49.77		
-2.2	2DLC	11686.m03927|Os	68.38	2	11686.m03927
-5.2	2DLC	11686.m03927|Os	57.6		
-1.1	Gel	30089751	53.27	2	30089751
-1.6	Gel	30089751	52		
-1.7	Gel	34895640, 55770121	29.98	2	34895640
-3.1	Gel	34895640, 55770121	58.48		
-1.4	Gel	34900770	52.23	2	34900770
-4.3	Gel	34900770	53.89		
-4	Gel	34902156	57.65	5	34902156
-3.5	Gel	34902156	43.36		
-1.4	Gel	34902156	82.82		
-2.7	Gel	34902156	81.82		
-3.9	Gel	34902156	86.01		
-2.2	Gel	34909916	55.44	4	34909916
-4.2	Gel	34909916	51.13		
-1.7	Gel	34909916	68.54		
-1.7	Gel	34909916	53.53		
-2.9	Gel	34914668	46.13	3	34914668
-3	Gel	34914668	51.09		

-2.7	Gel	34914668	48.03		
-2	Gel	50900234	25.33	3	50900234
-2.4	Gel	50900234	53.35		
-3.1	Gel	50900234	67.7		
-1.2	Gel	50904583	93.34	2	50904583
-1.5	Gel	50904583	54.32		
-1.8	Gel	50906387	48.39	2	50906387
-4.5	Gel	50906387	50.11		
-2.6	Gel	50936827	54.93	6	50936827
-4.1	Gel	50936827	50.46		
-2.3	Gel	50936827	53.77		
-6.7	Gel	50936827	50.39		
-3	Gel	50936827	50.61		
-1.8	Gel	50936827	55.04		
-1.3	Gel	50940529	49	3	50940529
-3.7	Gel	50940529, 50940531	53.83		
-1.3	Gel	50940529	53.66		
-1.3	Gel	50940531	49	3	50940531
-1.7	Gel	50940531	53.24		
-1.3	Gel	50940533	59.25	2	50940533
-2.3	Gel	50940533	47.41		
-1.1	Gel	50940963	69.49	4	50940963
-1.9	Gel	50940963, 53749369	48.53		
-8.7	Gel	50940963	51.69		
-2.6	Gel	50940963	75.11		
-1	Gel	53749369	62.89	2	53749369
-2.5	Gel	50943425	61.56	2	50943425
-4.5	Gel	50943425	60.29		
-3.5	Gel	50946165	53.01	3	50946165
-3.9	Gel	50946165	32.7		
-9.5	Gel	50946165	34.65		

-2.3	Gel	53792965	63.37	2	53792965
-2.9	Gel	53792965	60.71		
-2.8	Gel	50947945, 50947947	43.26	2	50947945
-1.9	Gel	50947945, 50947947	45.56		
-2	Gel	11680.m01966|Os	53.77	4	11680.m01966
-2.2	Gel	11680.m01966|Os	62.45		
-3.8	Gel	11680.m01966|Os	68.19		
-4.5	Gel	11680.m01966|Os	61.92		
-3.3	Gel	11687.m00612|Os	56.03	3	11687.m00612
-1.8	Gel	11687.m00612|Os	50.14		
-2.6	Gel	11687.m00612|Os	63.07		
-9.2	Gel	11687.m00686|Os	51.1	6	11687.m00686
-3.3	Gel	11687.m00686|Os	50.7		
-2.8	Gel	11687.m00686|Os	57.09		
-4.1	Gel	11687.m00686|Os	48.9		
-4.7	Gel	11687.m00686|Os	57.76		
-4.2	Gel	11687.m00686|Os	50.65		
-4	Gel	11687.m03689|Os	46.17	2	11687.m03689
-2.5	Gel	11687.m03689|Os	58.2		
-3.1	Gel	51964324	49.73	2	51964324
-3.4	Gel	51964324	57.74		
-1.2	Gel	34896946, 50939475	52.29	2	34896946
-2.7	2DLC	34896946	61.08		
-3.8	2DLC	50939475	57.98	2	50939475
-3.5	Gel	34902266	47.17	2	34902266
-1.9	2DLC	34902266	59.17		
-2.1	Gel	34905760	51.16	2	34905760
-1.2	2DLC	34905760	62.01		
-2.2	Gel	34909276	29.32	2	34909276
-1.9	2DLC	34909276	58.47		

-1.8 -2.3	Gel 2DLC	34909372 34909372	74.31 64.66	2	34909372
-2 -4.4	Gel 2DLC	50917223 50917223	50.3 52.96	2	50917223
-2.3 -2.3	Gel 2DLC	50919959 50919959	47.23 51.78	2	50919959
-2.3 -11.1	Gel 2DLC	50920595 50920595	60.38 54.4	2	50920595
-2.4 -3.6	Gel 2DLC	50924592 50924592	36.06 70.88	2	50924592
-5 -4.2	Gel 2DLC	50927963 50927963	64.19 74.58	2	50927963
-3.9 -2.5	Gel 2DLC	50931659 50931659	32.5 75.66	2	50931659
-3.5 -3.6	Gel 2DLC	50934809 50934809	50.64 60.26	2	50934809
-1.1 -3.4	Gel 2DLC	50940413 50940413	50.56 73.04	2	50940413
-5.3 -1.4	Gel 2DLC	11669.m01386|Os 11669.m01386|Os	30.52 62.94	2	11669.m01386
-3.5 -2.2	Gel 2DLC	11681.m03023|Os 11681.m03023|Os	48.66 53.95	2	11681.m03023
-2.4 -3	Gel 2DLC	11687.m03056|Os 11687.m03056|Os	49.7 55.08	2	11687.m03056
-4.3 -2.6	Gel 2DLC	20190, 3336950, 7161883, 34903134, 20190, 3336950, 7161883, 34903134,	63.34 57.71	2	20190

-2.7 -1.2	Gel 2DLC	414705, 52353573 414705, 52353573, 34905998	55.16 63.07	2	414705
-1.6 -1.3	Gel 2DLC	553107, 50900728 553107, 50900728	51.71 52.06	2	553107
-2.5 -1.9	Gel 2DLC	38567903, 50928625 38567903, 50928625	53 63.21	2	38567903
-2.9 -2.8	Gel 2DLC	39545728, 50929285 39545728, 50929285	51.61 68.05	2	39545728
-1.8 -3.2	Gel 2DLC	50509252, 50934215 50509252, 50934215	102.86 63.63	2	50509252
-4.8 -1.7	Gel 2DLC	50912665, 51979361 50912665, 51979361	29.7 53.34	2	50912665
-2.6 -1.7	Gel 2DLC	50919149, 50934523, 50934533 50919149, 50934523	56.67 60.35	2	50919149
-7.1	Both	11544696	51.74		11544696
-1.7	Both	12592069	62.07		12592069
-2.3	Both	31432458	56.44		31432458
-3.9	Both	34897938	49.39		34897938
-4.9	Both	34904816	68.91		34904816
-3.1	Both	34908162	54.88		34908162
-4.6	Both	34908626	64.74		34908626
-2.4	Both	34911282	57.55		34911282
-7.3	Both	37535254	70.53		37535254
-9	Both	50251689	67.8		50251689
-3.5	Both	50252130	48.42		50252130

-4.8	Both	50300546	65.73	50300546
-3.9	Both	50355726	61.61	50355726
-2.7	Both	50910099	55.14	50910099
-3.9	Both	50918837	57.7	50918837
-3.8	Both	50919199	50.42	50919199
-3.8	Both	50921193	66.57	50921193
-2.9	Both	50923895	58.4	50923895
-2.8	Both	50924996	56.54	50924996
-2.2	Both	50931245	60.81	50931245
-5.1	Both	50941247	48.91	50941247
-2.6	Both	50947559	51.85	50947559
-4.9	Both	50948647	54.62	50948647
-9.7	Both	51091329	66.63	51091329
-3.2	Both	52076505	50.35	52076505
-2.5	Both	52353496	53.47	52353496
-1.4	Both	11669.m02172|Os	53.68	11669.m02172
-4.7	Both	11673.m01376|Os	65.36	11673.m01376
-6	Both	11674.m00954|Os	60.81	11674.m00954
-3.1	Both	11682.m04612|Os	55.16	11682.m04612
-6.1	Both	11686.m03594|Os	49.87	11686.m03594
-2.3	Both	11686.m04404|Os	57.03	11686.m04404
-2.6	Both	50932073, 11682.m00292|Os	61.07	50932073
-3.1	Both	218183, 50929527	47.78	218183
-3	Both	30409136, 50940751	65.15	30409136
-6.2	Both	34895146, 50926169	55.69	34895146
-4.4	Both	34908418, 51854378	62.49	34908418

-2.2	Both	34912802, 50932887	62.07	34912802
-5.7	Both	50911737, 50911739	53.15	50911737
-3	Both	50940087, 50940089	56.59	50940087
-4.5	Both	11669.m00388|Os, 11676.m02928|Os	66.17	11669.m00388
-2.2	Gel	50919277	55.98	50919277
-4.7	Gel	34899754	56.7	34899754
-1.7	Gel	42733478	48.03	42733478
-1.1	Gel	50925203	50.15	50925203
-4.8	Gel	34901978	35.29	34901978
-3.1	Gel	11669.m01889|Os	49	11669.m01889
-4.6	Gel	11674.m04065|Os	55.86	11674.m04065
-3.2	Gel	53749380	56.99	53749380
-9.1	Gel	11669.m02251|Os	49.67	11669.m02251
-1.3	Gel	50300547	53.17	50300547
-2.5	Gel	50946791	52.99	50946791
-2.8	Gel	11669.m02488|Os	56.26	11669.m02488
-5.2	Gel	55733794	69.35	55733794
-1.1	Gel	34903286	55.82	34903286
-2.1	Gel	34902016	40.1	34902016
-3.6	Gel	50902072	57.43	50902072
-6.8	Gel	50911775	58.22	50911775
-5.6	Gel	37534336	32.99	37534336
-5.4	Gel	11686.m01039|Os	60.66	11686.m01039
-3.7	Gel	50923621	51.76	50923621
-3.7	Gel	53749344	54.43	53749344
-1.8	Gel	11669.m01894|Os	46.5	11669.m01894

-3.2	Gel	34911620	52.52	34911620
-4.5	Gel	11674.m03026|Os	59.05	11674.m03026
-1.2	Gel	50934367	59.33	50934367
-3.5	Gel	50938155	72.46	50938155
-5.7	Gel	34902250	31.46	34902250
-3.2	Gel	50904383	48.85	50904383
-1.9	Gel	50929523	56.45	50929523
-5.5	Gel	50918835	77.7	50918835
-1.5	Gel	11669.m00606|Os	74.4	11669.m00606
-3.4	Gel	11668.m05022|Os	91.35	11668.m05022
-3.4	Gel	11669.m02209|Os	49.01	11669.m02209
-3.1	Gel	11687.m04378|Os	32.61	11687.m04378
-1.8	Gel	11673.m00460|Os	98.97	11673.m00460
-1.4	Gel	50929561	47.34	50929561
-2.7	Gel	11681.m00363|Os	48.77	11681.m00363
-5	Gel	11673.m03864|Os	51.43	11673.m03864
-2.1	Gel	11673.m03616|Os	82.71	11673.m03616
-3	Gel	50921835	51.45	50921835
-3.7	Gel	51963816	58.55	51963816
-3	Gel	50725801	54.88	50725801
-3.2	Gel	50932485	30.66	50932485
-7.7	Gel	50900486	58.11	50900486
-5	Gel	50924916	29.26	50924916
-2.1	Gel	50872422	52.33	50872422
-2.4	Gel	50947445	31.35	50947445
-1.9	Gel	50940287	57.13	50940287

-3.5	Gel	11680.m01108|Os	29.7	11680.m01108
-4.4	Gel	31430525	49.6	31430525
-3.2	Gel	50949111	44.86	50949111
-3.5	Gel	62733559	47.29	62733559
-3.1	Gel	50907613	54.81	50907613
-3.7	Gel	34908550	23.72	34908550
-1.4	Gel	28209495	25.92	28209495
-5.2	Gel	50924424	29.58	50924424
-3.3	Gel	50919883	55.7	50919883
-2.5	Gel	55733785	56.34	55733785
-2.4	Gel	50909751	50.59	50909751
-2	Gel	50934811	49.96	50934811
-3.9	Gel	50924648	25.48	50924648
-1.9	Gel	11680.m00377|Os	49.28	11680.m00377
-7.1	Gel	53792934	30.46	53792934
-2.7	Gel	50251211	54.71	50251211
-1.7	Gel	55700921	32.68	55700921
-3.3	Gel	50920469	50.88	50920469
-2.8	Gel	50938911	47.69	50938911
-1.1	Gel	11668.m04517|Os	52.93	11668.m04517
-2.5	Gel	50878379, 20204, 218157, 50940603,	55.59	50878379
-1.9	Gel	34898416, 34898478	48.29	34898416
-1.4	Gel	34904770, 34904772	54.29	34904770
-6	Gel	50905845, 50947077, 51535771	66.56	50905845
-3.8	Gel	11686.m00167|Os, 11687.m00170|Os	54.18	11686.m00167
-1.4	Gel	50937631, 50937633	53.03	50937631

-2.4	Gel	11687.m01264|Os, 11687.m01268|Os	63.54	11687.m01264
-1.1	Gel	11674.m04491|Os, 11674.m04492|Os	52.67	11674.m04491
-5.7	Gel	11687.m00182|Os, 11686.m00185|Os	48.42	11687.m00182
-3.3	Gel	11263719, 51979687	60.42	11263719
-3.4	Gel	6409176, 21321787, 50540680, 5090(	48.08	6409176
-3	Gel	11669.m02141|Os, 11669.m02142|Os	57.29	11669.m02141
-4.6	Gel	11686.m03897|Os, 11686.m03898|Os	56.9	11686.m03897
-2	Gel	50726451, 50946229, 53981730	50.01	50726451
-4.1	Gel	34906018, 50947965	23.75	34906018
-3.5	Gel	55769735, 34894126	30.14	55769735
-5.8	Gel	53792606, 53792607	55.3	53792606
-2.2	Gel	20429034, 34915268, 50918889, 509(	31.01	20429034
-2	Gel	34915304, 2827314	53.25	34915304
-2.8	Gel	78058616, 50918937	55.59	78058616
-7	Gel	11676.m02665|Os, 11676.m02666|Os	75.85	11676.m02665
-2.9	Gel	50911805, 50900506	52.75	50911805
-3.8	Gel	11687.m00316|Os, 11686.m00311|Os	49.59	11687.m00316
-3.8	Gel	52077479, 34905540	51.46	52077479
-1.3	Gel	50899126, 50947889	53.71	50899126
-5	Gel	50920389, 50939279	56.7	50920389
-2.7	2DLC	1172818	59.44	1172818
-3.9	2DLC	4586676	66.44	4586676
-1.9	2DLC	18447934	55.72	18447934
-1.7	2DLC	20330742	62.44	20330742
-1.7	2DLC	22748411	55.2	22748411
-1.2	2DLC	29367429	55.59	29367429

-1.6	2DLC	29367553	55.42	29367553
-1.6	2DLC	31430030	63.6	31430030
-2.1	2DLC	31431903	52.13	31431903
-2.2	2DLC	31433613	68.71	31433613
-2.1	2DLC	34895848	53.92	34895848
-2.1	2DLC	34897872	57.5	34897872
-6.1	2DLC	34897952	52.28	34897952
-2.7	2DLC	34898128	53.6	34898128
-1.4	2DLC	34898642	58.98	34898642
-3.3	2DLC	34899362	52.34	34899362
-2.2	2DLC	34899866	56.04	34899866
-3.2	2DLC	34900364	64.31	34900364
-2.3	2DLC	34902126	62.65	34902126
-6.1	2DLC	34902186	60.15	34902186
-3.4	2DLC	34902828	57.86	34902828
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-2.5	2DLC	34905466	52.34	34905466
-3.7	2DLC	34907166	72.24	34907166
-1.7	2DLC	34907210	54.37	34907210
-4.5	2DLC	34907228	58.42	34907228
-1.3	2DLC	34907364	59.97	34907364
-1.7	2DLC	34908726	58.84	34908726
-2.5	2DLC	34908978	60.31	34908978
-1.2	2DLC	34909286	69.84	34909286
-2.7	2DLC	34909656	54.63	34909656
-4.7	2DLC	34911180	65.31	34911180

-4.3	2DLC	34911912	61.74	34911912
-5.8	2DLC	34911914	62.12	34911914
-2.2	2DLC	34912192	60.2	34912192
-4.5	2DLC	34913144	58.71	34913144
-3.2	2DLC	34914144	60.15	34914144
-1.5	2DLC	34914304	55.25	34914304
-4.4	2DLC	34914322	57.47	34914322
-3.2	2DLC	34914972	60.34	34914972
-1.3	2DLC	37531768	57.23	37531768
-5	2DLC	37533688	72.14	37533688
-4.8	2DLC	37534824	53.81	37534824
-2.5	2DLC	37535714	55.99	37535714
-2.1	2DLC	50251665	62.11	50251665
-3.7	2DLC	50252684	52.8	50252684
-2.2	2DLC	50253039	61.24	50253039
-2.8	2DLC	50508559	51.21	50508559
-1.4	2DLC	50511474	58.77	50511474
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-2.4	2DLC	50725803	56.27	50725803
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-2.2	2DLC	50900368	63.1	50900368
-1.6	2DLC	50900586	51.7	50900586
-5.1	2DLC	50904487	57.23	50904487
-7.2	2DLC	50904789	75.4	50904789
-1.7	2DLC	50905527	59.53	50905527
-3.1	2DLC	50905963	53.51	50905963

-1.3	2DLC	50906213	59.47	50906213
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-2.7	2DLC	50909029	61.82	50909029
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-2.4	2DLC	50909993	68.68	50909993
-3.7	2DLC	50910125	62.32	50910125
-1.2	2DLC	50911140	61.16	50911140
-1.4	2DLC	50911623	57.07	50911623
-4.4	2DLC	50911855	61.57	50911855
-5.9	2DLC	50912141	54.74	50912141
-4.2	2DLC	50912795	51.11	50912795
-3.4	2DLC	50912821	62.54	50912821
-4.8	2DLC	50915996	61.41	50915996
-2.3	2DLC	50916735	61.52	50916735
-1.9	2DLC	50918179	75.28	50918179
-3.1	2DLC	50919443	75.08	50919443
-1.4	2DLC	50919703	64.92	50919703
-5	2DLC	50919785	54.95	50919785
-4	2DLC	50920031	67.13	50920031
-1.8	2DLC	50921369	55.76	50921369
-7.2	2DLC	50924390	65.89	50924390
-3.9	2DLC	50924650	67.73	50924650
-5.7	2DLC	50924744	64.98	50924744
-4.5	2DLC	50926394	52.26	50926394

-4.6	2DLC	50926582	58.17	50926582
-3.4	2DLC	50927140	53.35	50927140
-1.5	2DLC	50928707	58.76	50928707
-1.7	2DLC	50929221	58.18	50929221
-1.8	2DLC	50929247	53.65	50929247
-3.5	2DLC	50929727	48.7	50929727
-2.1	2DLC	50931851	58.18	50931851
-1.7	2DLC	50932043	71.13	50932043
-3.9	2DLC	50932737	60.27	50932737
-3.4	2DLC	50933743	66.89	50933743
-3.1	2DLC	50937115	63.47	50937115
-3.4	2DLC	50937245	53.21	50937245
-2.7	2DLC	50938449	55.37	50938449
-1.6	2DLC	50938959	62.73	50938959
-3.9	2DLC	50939233	50.84	50939233
-5.1	2DLC	50939929	52.63	50939929
-3.8	2DLC	50940045	66.57	50940045
-2.2	2DLC	50940253	57.66	50940253
-3.5	2DLC	50940785	55.14	50940785
-3.4	2DLC	50940931	63.78	50940931
-7.2	2DLC	50941297	49.84	50941297
-3.4	2DLC	50944163	61.74	50944163
-2.4	2DLC	50944209	64	50944209
-2.9	2DLC	50945435	57.93	50945435
-2.2	2DLC	50946623	54.57	50946623
-1.2	2DLC	50946957	58.04	50946957

-1.1	2DLC	50947319	55.42	50947319
-3.8	2DLC	50947725	66.78	50947725
-4.8	2DLC	50947759	54.06	50947759
-4.8	2DLC	50947771	57.07	50947771
-4.5	2DLC	50947995	53.08	50947995
-1.9	2DLC	50948259	59.3	50948259
-2.7	2DLC	51091300	55.08	51091300
-6.6	2DLC	51091381	51.39	51091381
-2.6	2DLC	51091510	65.26	51091510
-3	2DLC	51091723	63.3	51091723
-1.7	2DLC	51535089	67.85	51535089
-7.7	2DLC	51535283	48.42	51535283
-4.5	2DLC	51535511	62.09	51535511
-1.4	2DLC	51535528	58.89	51535528
-3.8	2DLC	51536061	63.05	51536061
-1.2	2DLC	52076692	55.36	52076692
-1.2	2DLC	52076930	68.1	52076930
-2.6	2DLC	52077010	62.5	52077010
-4.2	2DLC	52077371	51.77	52077371
-1.1	2DLC	52353466	67.63	52353466
-2.8	2DLC	53749331	71.32	53749331
-2.4	2DLC	53791981	72.4	53791981
-1.4	2DLC	55733950	58.52	55733950
-1.8	2DLC	55773694	56.64	55773694
-1.9	2DLC	62733585	60.18	62733585
-3.4	2DLC	11667.m04511|Os	59.22	11667.m04511

-2.9	2DLC	11667.m05249|Os	58.72	11667.m05249
-3.5	2DLC	11667.m05961|Os	59.55	11667.m05961
-2.6	2DLC	11667.m05999|Os	56.73	11667.m05999
-7.7	2DLC	11668.m00511|Os	60.96	11668.m00511
-2.6	2DLC	11668.m00857|Os	70.77	11668.m00857
-3.5	2DLC	11668.m01461|Os	61.59	11668.m01461
-3.1	2DLC	11668.m03679|Os	63.35	11668.m03679
-1.5	2DLC	11669.m00371|Os	57.15	11669.m00371
-2.7	2DLC	11669.m00671|Os	71.72	11669.m00671
-2.8	2DLC	11669.m01428|Os	65.52	11669.m01428
-2.7	2DLC	11669.m01843|Os	53.32	11669.m01843
-2.9	2DLC	11669.m01976|Os	56.85	11669.m01976
-2.1	2DLC	11669.m01983|Os	62.26	11669.m01983
-2.5	2DLC	11669.m02723|Os	52.61	11669.m02723
-9	2DLC	11669.m04989|Os	45.72	11669.m04989
-3.4	2DLC	11673.m03787|Os	76.59	11673.m03787
-2.7	2DLC	11674.m04392|Os	52.1	11674.m04392
-1.2	2DLC	11680.m00366|Os	59.32	11680.m00366
-4.4	2DLC	11680.m00523|Os	53.56	11680.m00523
-3	2DLC	11680.m00789|Os	56.54	11680.m00789
-2.2	2DLC	11680.m01169|Os	51.52	11680.m01169
-3	2DLC	11680.m02241|Os	63.69	11680.m02241
-2.8	2DLC	11680.m03753|Os	58.92	11680.m03753
-1.3	2DLC	11680.m05116|Os	57.4	11680.m05116
-3.2	2DLC	11680.m05119|Os	68.09	11680.m05119
-2	2DLC	11682.m02342|Os	51.06	11682.m02342

-2.2	2DLC	11682.m02497|Os	51.17	11682.m02497
-4.2	2DLC	11682.m04614|Os	72.73	11682.m04614
-5	2DLC	11686.m00446|Os	55.86	11686.m00446
-2	2DLC	11686.m01300|Os	62.61	11686.m01300
-3.3	2DLC	11686.m02101|Os	50.88	11686.m02101
-4.6	2DLC	11686.m02350|Os	65.84	11686.m02350
-2.3	2DLC	11686.m03640|Os	57.13	11686.m03640
-3.9	2DLC	11687.m00620|Os	61.7	11687.m00620
-1.1	2DLC	11687.m00785|Os	67.71	11687.m00785
-1.3	2DLC	11687.m01023|Os	69.88	11687.m01023
-2.6	2DLC	11687.m02186|Os	52.82	11687.m02186
-2	2DLC	11687.m03385|Os	76.26	11687.m03385
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-2.1	2DLC	20312, 575355, 575357, 1305525, 25(	69.83	20312
-1.6	2DLC	303844, 50905315, 53792733	60.23	303844
-4.8	2DLC	1054821, 1098559, 51038142, 51038′	72.94	1054821
-6.1	2DLC	1632822, 50927905	53.08	1632822
-3.9	2DLC	51535041, 50252072, 2213643	66.42	51535041
-2.2	2DLC	2570509, 2696804, 2894534	51.2	2894534
-3.5	2DLC	3560531, 50935101	53.82	3560531
-2	2DLC	4680192, 52353428	55.73	4680192
-3.4	2DLC	46360428, 53749354, 6225820	73.36	46360428
-4.5	2DLC	6682927, 33337497, 34897636, 3490′	60.02	6682927
-5	2DLC	6863054, 18855040	58.22	6863054
-1.1	2DLC	8547358, 15983299, 23600453, 5093(	68.49	8547358
-3.8	2DLC	9828445, 50251801	68.17	9828445

-2	2DLC	11177843, 34907162	73.14	11177843
-2.7	2DLC	12698878, 50940185	60.7	12698878
-4.1	2DLC	50901176, 16923265	49.42	50901176
-2.3	2DLC	18201659, 25396402, 34908082, 4542	57.9	25396402
-3.8	2DLC	21698922, 29367547, 51964178	50.88	21698922
-4	2DLC	23954312, 55168010	60.28	55168010
-3.8	2DLC	27368837, 50948167	68.25	27368837
-3.5	2DLC	27948554, 34904868	70.72	27948554
-2.3	2DLC	29367519, 50929795	64.6	29367519
-1.7	2DLC	30140333, 30140335, 51091135, 5109	57.14	30140333
-3	2DLC	31432043, 50916209	57.62	31432043
-1.6	2DLC	32966012, 50909061	60.2	32966012
-3.7	2DLC	34894034, 55769659	51.17	34894034
-1.3	2DLC	34894050, 55769675, 55769677	51.25	34894050
-2.3	2DLC	34895376, 55769925	57.62	34895376
-2.6	2DLC	53749326, 34903764	56.1	53749326
-2	2DLC	34906422, 51854456, 55168177	57.95	51854456
-1.7	2DLC	34906842, 50920881	49.03	50920881
-3	2DLC	34908154, 50931673	53.77	34908154
-5.4	2DLC	34910730, 50906559, 53792560	65.66	34910730
-3.4	2DLC	34911340, 50932661	58.25	50932661
-2.6	2DLC	34912468, 53793388	59.78	34912468
-1.8	2DLC	37030052, 50930835	75.48	37030052
-4.4	2DLC	37533916, 78708516	60.69	37533916
-5.3	2DLC	50932939, 49328110	60.66	50932939
-3.3	2DLC	50251205, 50916422	60.3	50251205

-2.3	2DLC	50582697, 50918875, 50919719	61.52	50582697
-3.4	2DLC	50904527, 50939761	60.91	50904527
-3	2DLC	50905467, 52076906	61.52	50905467
-1.5	2DLC	50910936, 50910940	53.37	50910936
-2.8	2DLC	50912035, 52076831	51.36	50912035
-3.4	2DLC	50919281, 50935111	73.22	50919281
-2.4	2DLC	50921127, 50921137, 53370754	57.19	50921127
-2.3	2DLC	51979721, 52077174	54.36	52077174
-4.7	2DLC	11667.m02293|Os, 11668.m00836|Os	71.57	11667.m02293
-1.4	2DLC	11669.m00274|Os, 11669.m00275|Os	57.47	11669.m00274
-3	2DLC	11669.m01453|Os, 11676.m00933|Os	51.54	11669.m01453
-2.5	2DLC	11669.m05878|Os, 11673.m00700|Os	51.74	11673.m00700
-2.8	2DLC	11673.m02094|Os, 11673.m02095|Os	60.55	11673.m02094
-2.7	2DLC	11686.m00026|Os, 11687.m00030|Os	50.38	11686.m00026
-4.2	2DLC	11686.m00325|Os, 11687.m00334|Os	57.9	11686.m00325
-3.2	2DLC	11686.m02879|Os, 11686.m02881|Os	64.55	11686.m02879
-2.5	2DLC	11686.m03098|Os, 11686.m03099|Os	64.05	11686.m03098
-3.5	2DLC	11686.m04429|Os, 11686.m04430|Os	56.19	11686.m04429

d theoretical peptide mass; log(e), X!Tandem expectation of finding the peptide stochastically; Accession #, access
isoelectric point; Location, predicted subcellular location (PM, plasma membrane; UM, undetermined membrane; C

Protein
alcohol dehydrogenase 1 [Oryza sativa (indica cultivar-group)]
sucrose synthase [Oryza sativa]
plasma membrane H+ ATPase [Oryza sativa (japonica cultivar-group)]

plasma membrane H+-ATPase [Oryza sativa (japonica cultivar-group)]

plasma membrane H+-ATPase [Oryza sativa]

OSJNBa0071I13.11 [Oryza sativa (japonica cultivar-group)]

H-ATPase [Oryza sativa (japonica cultivar-group)]

plasma-membrane proton-efflux P-type ATPase

plasma membrane H+-ATPase [Oryza sativa]

GTP-binding protein [Oryza sativa]

putative GTP-binding protein [Oryza sativa (japonica cultivar-group)]

putative GTP-binding protein [Oryza sativa (japonica cultivar-group)]

putative GTP-binding protein [Oryza sativa (japonica cultivar-group)]

putative GTP-binding protein Rab11 [Oryza sativa (japonica cultivar-group)]

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beta tubulin [Oryza sativa (japonica cultivar-group)]

Putative beta tubulin [Oryza sativa (japonica cultivar-group)]

beta-tubulin R2242

tubulin beta-4 chain [Oryza sativa (japonica cultivar-group)]

14-3-3 protein

putative TaWIN2 [Oryza sativa (japonica cultivar-group)]

PREDICTED OJ1124_B05.7 gene product [Oryza sativa (japonica cultivar-group)]

14-3-3, putative, expressed [Oryza sativa (japonica cultivar-group)]

14-3-3-like protein [Oryza sativa]

ras-related GTP binding protein possessing GTPase activity [Oryza sativa]

putative GTP-binding protein [Oryza sativa (japonica cultivar-group)]

ethylene-responsive small GTP-binding protein [Oryza sativa (japonica cultivar-group)]

PREDICTED OJ1715_A07.15 gene product [Oryza sativa (japonica cultivar-group)]

putative RIC1_ORYSA RAS-RELATED PROTEIN RIC1 [Oryza sativa (japonica cultivar-group)]

putative ethylene-responsive small GTP-binding protein [Oryza sativa (japonica cultivar-group)]

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putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]

---

calcium-dependent protein kinase [Oryza sativa (japonica cultivar-group)]

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putative GTP-binding protein yptm3 [Oryza sativa (japonica cultivar-group)]

OSJNBa0089K21.1 [Oryza sativa (japonica cultivar-group)]

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alpha tubulin [Oryza sativa (japonica cultivar-group)]

alfa tubulin [Oryza sativa (japonica cultivar-group)]

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osr40c1 [Oryza sativa]

TMK [Oryza sativa (indica cultivar-group)]

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putative inorganic pyrophosphatase [Oryza sativa (japonica cultivar-group)]

vacuolar proton pyrophosphatase [Oryza sativa (japonica cultivar-group)]

proton translocating pyrophosphatase [Oryza sativa]

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heat shock protein 70 [Oryza sativa (indica cultivar-group)]

putative dnaK-type molecular chaperone BiP [Oryza sativa (japonica cultivar-group)]

putative HSP70 [Oryza sativa (japonica cultivar-group)]

heat shock protein cognate 70 [Oryza sativa (japonica cultivar-group)]

putative hsp70 [Oryza sativa (japonica cultivar-group)]

putative luminal binding protein 5 [Oryza sativa (japonica cultivar-group)]

dnaK protein

EF-1 alpha [Oryza sativa]

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harpin induced gene 1 homolog [Oryza sativa]

cytosolic glyceraldehyde-3-phosphate dehydrogenase GAPDH [Oryza sativa (japonica cultivar-group)]

Glyceraldehyde-3-phosphate dehydrogenase, cytosolic

plasma membrane intrinsic protein [Oryza sativa (japonica cultivar-group)]

OSJNBa0058K23.11 [Oryza sativa (japonica cultivar-group)]

putative receptor protein kinase PERK [Oryza sativa (japonica cultivar-group)]

serine/threonine kinase receptor precursor-like protein [Oryza sativa (japonica cultivar-group)]

putative serine/threonine kinase receptor precursor [Oryza sativa (japonica cultivar-group)]

putative serine/threonine-specific protein kinase(gi|7488195|) [Oryza sativa (japonica cultivar-gro

putative serine/threonine kinase protein [Oryza sativa (japonica cultivar-group)]

disease resistance protein Cf-2.1-like [Oryza sativa (japonica cultivar-group)]

serine/threonine kinase receptor precursor-like protein [Oryza sativa (japonica cultivar-group)]

putative protein serine/threonine kinase [Oryza sativa (japonica cultivar-group)]

putative serine/threonine kinase protein [Oryza sativa (japonica cultivar-group)]

putative serine/threonine-specific protein kinase(gi|7488195|) [Oryza sativa (japonica cultivar-gro

putative serine/threonine kinase protein [Oryza sativa (japonica cultivar-group)]

putative serine/threonine kinase protein [Oryza sativa (japonica cultivar-group)]

putative serine/threonine-specific protein kinase(gi|7488195|) [Oryza sativa (japonica cultivar

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CAA30379.1 protein [Oryza sativa]

phosphate:H+ symporter [Oryza sativa (japonica cultivar-group)]

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putative hypersensitive-induced response protein [Oryza sativa (japonica cultivar-group)]

putative hypersensitive-induced response protein [Oryza sativa (japonica cultivar-group)]

hypersensitive-induced response protein [Oryza sativa]

OSJNBa0031O09.02 [Oryza sativa (japonica cultivar-group)]

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phosphate transporter [Oryza sativa (japonica cultivar-group)]

Putative beta-1,3-glucanase [Oryza sativa (japonica cultivar-group)]

Unknown protein [Oryza sativa (japonica cultivar-group)]

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putative phosphate transporter OsPT1 [Oryza sativa (japonica cultivar-group)]

putative phosphate transporter OsPT7 [Oryza sativa (japonica cultivar-group)]

PDR-type ABC transporter 9 [Oryza sativa (indica cultivar-group)]

putative ABC transporter [Oryza sativa (japonica cultivar-group)]

putative PDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

PDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

PDR-type ABC transporter 9 [Oryza sativa (indica cultivar-group)]

PDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

putative PDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

MDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

putative P-glycoprotein 1 [Oryza sativa (japonica cultivar-group)]

MDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

OSJNBb0079B02.13 [Oryza sativa (japonica cultivar-group)]

putative multidrug resistance protein 1 homolog [Oryza sativa (japonica cultivar-group)]

unnamed protein product [Oryza sativa (japonica cultivar-group)]

putative multidrug resistance p-glycoprotein [Oryza sativa (japonica cultivar-group)]

MDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

OSJNBa0081C01.16 [Oryza sativa (japonica cultivar-group)]

putative receptor-type protein kinase LRK1 [Oryza sativa (japonica cultivar-group)]

putative receptor-like kinase [Oryza sativa (japonica cultivar-group)]

OSJNBa0081C01.17 [Oryza sativa (japonica cultivar-group)]

putative serine/threonine-specific kinase like protein [Oryza sativa (japonica cultivar-group)]

putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]

RAS-related GTP-binding protein Rab7 family [Oryza sativa (japonica cultivar-group)]

small GTP binding protein [Oryza sativa (indica cultivar-group)]

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putative protein kinase [Oryza sativa (japonica cultivar-group)]

putative protein kinase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative receptor protein kinase [Oryza sativa (japonica cultivar-group)]

putative receptor protein kinase PERK1 [Oryza sativa (japonica cultivar-group)]

putative phragmoplastin [Oryza sativa (japonica cultivar-group)]

exocyst complex component Sec8-like [Oryza sativa (japonica cultivar-group)]

PREDICTED P0039H02.103 gene product [Oryza sativa (japonica cultivar-group)]

putative endoplasmic reticulum membrane fusion protein [Oryza sativa (japonica cultivar-group)]

Cytochrome b5, putative, expressed [Oryza sativa (japonica cultivar-group)]

putative callose synthase 1 catalytic subunit [Oryza sativa (japonica cultivar-group)]

putative monosaccharide transporter 3 [Oryza sativa (japonica cultivar-group)]

putative 40S ribosomal protein S5 [Oryza sativa (japonica cultivar-group)]

putative disease resistance protein [Oryza sativa (japonica cultivar-group)]

Putative protein kinase [Oryza sativa (japonica cultivar-group)]

OSJNBa0011P19.5 [Oryza sativa (japonica cultivar-group)]

B1051E10.38 [Oryza sativa (japonica cultivar-group)]

putative receptor kinase [Oryza sativa (japonica cultivar-group)]

putative peptide transport protein [Oryza sativa (japonica cultivar-group)]

cytoplasmic ribosomal protein L18 [Oryza sativa]

putative disulfide-isomerase precursor [Oryza sativa]

putative Bplo [Oryza sativa (japonica cultivar-group)]

putative extra-large G-protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

LMBR1 integral membrane family protein-like [Oryza sativa (japonica cultivar-group)]

ADP-ribosylation factor [Oryza sativa (japonica cultivar-group)]

GTP-binding protein Rab6 [Oryza sativa (japonica cultivar-group)]

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unknown protein [Oryza sativa (japonica cultivar-group)]

Putative callose synthase [Oryza sativa (japonica cultivar-group)]

Putative leucine-rich repeat transmembrane protein kinase [Oryza sativa (japonica cultivar-group)]

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unnamed protein product [Oryza sativa (japonica cultivar-group)]

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unnamed protein product [Oryza sativa (japonica cultivar-group)]

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putative phosphatidylserine decarboxylase [Oryza sativa (japonica cultivar-group)]

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putative heat shock protein [Oryza sativa (japonica cultivar-group)]

P0470A12.7 [Oryza sativa (japonica cultivar-group)]

P0674H09.27 [Oryza sativa (japonica cultivar-group)]

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putative CLB1 protein [Oryza sativa (japonica cultivar-group)]

putative CLB1 protein [Oryza sativa (japonica cultivar-group)] - Ca2+-dependent lipid-binding protein CLB1

P0638D12.12 [Oryza sativa (japonica cultivar-group)]

putative glucan synthase [Oryza sativa (japonica cultivar-group)] (Callose synthase)

putative receptor-protein kinase [Oryza sativa (japonica cultivar-group)]

P0445E10.8 [Oryza sativa (japonica cultivar-group)]

OSJNBb0006H05.17 [Oryza sativa (japonica cultivar-group)]

receptor-like protein kinase 1-like [Oryza sativa (japonica cultivar-group)]

OJ1029_F04.25 [Oryza sativa (japonica cultivar-group)]

putative protein kinase [Oryza sativa (japonica cultivar-group)]

putative root hair defective 3 (RHD3) [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative receptor-like protein kinase 4 [Oryza sativa (japonica cultivar-group)]

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contains similarity to chromaffin granule ATPase II homolog [Oryza sativa (japonica cultivar-group)

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putative protein kinase [Oryza sativa (japonica cultivar-group)]

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somatic embryogenesis protein kinase 1 [Oryza sativa (japonica cultivar-group)]

benzothiadiazole-induced somatic embryogenesis receptor kinase 1 [Oryza sativa (indica

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heat shock protein 90 [Oryza sativa (japonica cultivar-group)]

OSJNBb0015N08.12 [Oryza sativa (japonica cultivar-group)]

putative calcium-transporting ATPase [Oryza sativa (japonica cultivar-group)]

putative calcium-transporting ATPase 8, plasma membrane-type [Oryza sativa (japonica cultivar-group

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calmodulin-binding protein-like [Oryza sativa (japonica cultivar-group)]

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receptor kinase Lecrk-like [Oryza sativa (japonica cultivar-group)]

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putative MDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

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putative serine/threonine-specific protein kinase [Oryza sativa (japonica cultivar-group)]

'hypothetical protein, contains protein kinase domain' [Oryza sativa (japonica cultivar-group)]

unknown protein, contains protein kinase domain, PF00069' [Oryza sativa (japonica cultivar-group)]

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putative receptor-like protein kinase 2 [Oryza sativa (japonica cultivar-group)]

putative syntaxin 71 (SYP71) [Oryza sativa (japonica cultivar-group)]

protease inhibitor/seed storage/LTP family protein [Oryza sativa (japonica cultivar-group)]

blue copper-binding protein-like [Oryza sativa (japonica cultivar-group)]

nodulation receptor kinase-like protein [Oryza sativa (japonica cultivar-group)]

putative phospholipase D beta 1 [Oryza sativa (japonica cultivar-group)]

putative ABC transporter [Oryza sativa (japonica cultivar-group)]

OSJNBa0074L08.3 [Oryza sativa (japonica cultivar-group)]

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putative disease resistance protein [Oryza sativa (japonica cultivar-group)]

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putative beta-1,3-glucanase [Oryza sativa (japonica cultivar-group)]

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putative cytosolic phosphoglycerate kinase 1 [Oryza sativa (japonica cultivar-group)]

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putative SERK2 protein [Oryza sativa (japonica cultivar-group)]

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putative receptor-like kinase (with alternative splicing) [Oryza sativa (japonica cultivar-group)]

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putative DREPP2 protein [Oryza sativa (japonica cultivar-group)]

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putative elongation factor 2 [Oryza sativa (japonica cultivar-group)]

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putative GPI-anchored protein [Oryza sativa (japonica cultivar-group)]

oligopeptide transporter OPT-like [Oryza sativa (japonica cultivar-group)]

MDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

diacylglycerol kinase-like [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative beta-glucosidase [Oryza sativa (japonica cultivar-group)]

putative phosphatidylinositol kinase [Oryza sativa]

putative receptor kinase [Oryza sativa]

putative GTP-binding protein [Oryza sativa (japonica cultivar-group)]

Unknown protein [Oryza sativa (japonica cultivar-group)]

Putative fiddlehead-like protein [Oryza sativa (japonica cultivar-group)]

OSJNBa0027H09.17 [Oryza sativa (japonica cultivar-group)]

OSJNBb0080H08.21 [Oryza sativa (japonica cultivar-group)]

OSJNBa0071G03.1 [Oryza sativa (japonica cultivar-group)]

OSJNBb0012E08.10 [Oryza sativa (japonica cultivar-group)]

OSJNBa0028I23.20 [Oryza sativa (japonica cultivar-group)]

OJ991113_30.7 [Oryza sativa (japonica cultivar-group)]

OSJNBa0019K04.16 [Oryza sativa (japonica cultivar-group)]

OSJNBa0020J04.8 [Oryza sativa (japonica cultivar-group)]

OSJNBa0093O08.1 [Oryza sativa (japonica cultivar-group)]

OSJNBa0093O08.3 [Oryza sativa (japonica cultivar-group)]

OSJNBa0033G05.21 [Oryza sativa (japonica cultivar-group)]

OSJNBa0060D06.20 [Oryza sativa (japonica cultivar-group)]

OSJNBb0017I01.27 [Oryza sativa (japonica cultivar-group)]

OSJNBa0088H09.3 [Oryza sativa (japonica cultivar-group)]

OSJNBa0088H09.6 [Oryza sativa (japonica cultivar-group)]

OSJNBa0088H09.18 [Oryza sativa (japonica cultivar-group)]

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unknown protein [Oryza sativa (japonica cultivar-group)]

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putative dynamin [Oryza sativa (japonica cultivar-group)]

putative dynamin-like protein [Oryza sativa (japonica cultivar-group)]

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unknown protein [Oryza sativa (japonica cultivar-group)]

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putative amino acid permease [Oryza sativa (japonica cultivar-group)]

---

putative OsLRK1 (receptor-type protein kinase) [Oryza sativa (japonica cultivar-group)]

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putative phytosulfokine receptor [Oryza sativa (japonica cultivar-group)]

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putative 3-glucanase [Oryza sativa (japonica cultivar-group)]

putative polygalacturonase [Oryza sativa (japonica cultivar-group)]

putative Calreticulin precursor [Oryza sativa (japonica cultivar-group)]

putative 1,4-beta-D xylan xylanohydrolase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative S-receptor kinase KIK1 precursor [Oryza sativa (japonica cultivar-group)]

putative protein phosphatase 2C [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative elicitor inducible beta-1,3-glucanase [Oryza sativa (japonica cultivar-group)]

putative caltractin [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

60S acidic ribosomal protein P0 [Oryza sativa (japonica cultivar-group)]

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unknown protein [Oryza sativa (japonica cultivar-group)]

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putative fasciclin-like arabinogalactan-protein [Oryza sativa (japonica cultivar-group)]

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putative glycerophosphoryl diester phosphodiesterase 2 precursor [Oryza sativa (japonica cultivar

---

putative auxin-induced protein [Oryza sativa (japonica cultivar-group)]

---

receptor protein kinase PERK1-like protein [Oryza sativa (japonica cultivar-group)]

---

putative calcium ATPase [Oryza sativa (japonica cultivar-group)]

---

putative Erwinia induced protein 1 [Oryza sativa (japonica cultivar-group)]

PREDICTED OJ1027_G06.13 gene product [Oryza sativa (japonica cultivar-group)]

PREDICTED P0417F02.20 gene product [Oryza sativa (japonica cultivar-group)]

PREDICTED P0493A04.32 gene product [Oryza sativa (japonica cultivar-group)]

peptidoglycan-binding LysM domain-containing protein -like [Oryza sativa (japonica cultivar-group)]

putative N-ethylmaleimide sensitive fusion protein [Oryza sativa (japonica cultivar-group)]

Sodium/hydrogen exchanger family protein, putative [Oryza sativa (japonica cultivar-group)]

leucine-rich repeat protein, putative [Oryza sativa (japonica cultivar-group)]

Protein kinase domain, putative

Protein kinase domain, putative

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alpha-adaptin C-like protein

Protein kinase domain, putative

NB-ARC domain, putative

TPR Domain, putative

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beta-adaptin homolog F8L21.170 - Arabidopsis thaliana

IQ calmodulin-binding motif, putative

callose synthase catalytic subunit, putative

cadmium-translocating P-type ATPase, putative

expressed protein

CRAL/TRIO, N-terminus, putative

At3g05290/T12H1_26

receptor-like protein kinase, putative

clathrin heavy chain, putative

Similar to Seq ID: rhg1_peking_amplicon

hin1 protein homolog - rice, putative

F2D10.27

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protein kinase ATMRK1 (EC 2.7.1.-) [imported] - Arabidopsis thaliana

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Sodium/hydrogen exchanger family protein, putative

5-methyltetrahydropteroyltriglutamate--homocysteine S-methyltransferase

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hipl1 protein precursor

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receptor-like kinase RHG4

Protein kinase domain, putative

actin [Oryza sativa (japonica cultivar-group)]

putative actin [Oryza sativa (japonica cultivar-group)]

poly-ubiquitin [Oryza sativa (japonica cultivar-group)]

peptidylprolyl isomerase Cyp2 [Oryza sativa (japonica cultivar-group)]

'GTP-binding protein alpha-1 subunit, Dwarf one gene' [Oryza sativa (japonica cultivar-group)]

OSJNBb0065L13.7 [Oryza sativa (japonica cultivar-group)]

expressed protein [Oryza sativa (japonica cultivar-group)]

sucrose transporter [Oryza sativa (japonica cultivar-group)]

putative centromere protein [Oryza sativa (japonica cultivar-group)]

P0028G04.16 [Oryza sativa (japonica cultivar-group)]

B1015E06.24 [Oryza sativa (japonica cultivar-group)]

unnamed protein product [Oryza sativa (japonica cultivar-group)]

putative fatty acid condensing enzyme CUT1 [Oryza sativa (japonica cultivar-group)]

P0698A10.6 [Oryza sativa (japonica cultivar-group)]

putative cellular retinaldehyde-binding/triple function [Oryza sativa (japonica cultivar-group)]

putative ribosomal protein S14 [Oryza sativa (japonica cultivar-group)]

putative protein kinase Xa21 [Oryza sativa (japonica cultivar-group)]

synaptobrevin-like protein [Oryza sativa (japonica cultivar-group)]

putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]

OSJNBb0086G13.12 [Oryza sativa (japonica cultivar-group)]

OJ990528_30.4 [Oryza sativa (japonica cultivar-group)]

OSJNBb0059K02.5 [Oryza sativa (japonica cultivar-group)]

OSJNBa0084K01.14 [Oryza sativa (japonica cultivar-group)]

putative Na+/H+ antiporter [Oryza sativa (japonica cultivar-group)]

putative receptor protein kinase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative protein kinase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative cytosine deaminase [Oryza sativa (japonica cultivar-group)]

putative membrane protein [Oryza sativa (japonica cultivar-group)]

putative receptor like protein kinase [Oryza sativa (japonica cultivar-group)]

putative systemin receptor SR160 [Oryza sativa (japonica cultivar-group)]

putative ABC transporter [Oryza sativa (japonica cultivar-group)]

Protein kinase domain, putative

receptor-protein kinase-like protein

Leucine Rich Repeat, putative

exocyst complex component sec10

At1g05520/T25N20_16

glucan endo-1,3-beta-glucosidase precursor (ec 3.2.1.39) ((1-3)-beta-glucan endohydrolase)

enolase

40S ribosomal protein S8

phospholipase D [Oryza sativa (indica cultivar-group)]

putative cellulose synthase (CesA1)

UDP-glucose pyrophosphorylase [Oryza sativa (japonica cultivar-group)]

putative potassium transporter [Oryza sativa (japonica cultivar-group)]

putative xylose isomerase [Oryza sativa (japonica cultivar-group)]

putative peroxisome type ascorbate peroxidase [Oryza sativa (japonica cultivar-group)]

putative phosphoesterase [Oryza sativa (japonica cultivar-group)]

wheat adenosylhomocysteinase-like protein [Oryza sativa (japonica cultivar-group)]

putative Ca2+-dependent lipid-binding protein [Oryza sativa (japonica cultivar-group)]

putative protein disulfide isomerase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative protein kinase [Oryza sativa]

putative cellulose synthase [Oryza sativa (japonica cultivar-group)] (CSLD2)

putative protein phosphatase 2C (PP2C) [Oryza sativa (japonica cultivar-group)]

putative CRK1 protein(cdc2-related kinase 1) [Oryza sativa (japonica cultivar-group)]

putative leucine-rich repeat transmembrane protein kinase 1 [Oryza sativa (japonica cultivar-group)]

Putative Nonclathrin coat protein gamma - like protein [Oryza sativa (japonica cultivar-group)]

unnamed protein product [Oryza sativa (japonica cultivar-group)]

putative auxin-responsive GH3 protein [Oryza sativa (japonica cultivar-group)]

P0003E08.5 [Oryza sativa (japonica cultivar-group)]

putative 1,3-beta-glucan synthase [Oryza sativa (japonica cultivar-group)]

similar to protein kinase [Oryza sativa (japonica cultivar-group)]

putative ribosomal protein S4 [Oryza sativa (japonica cultivar-group)]

Armadillo/beta-catenin-like repeat, putative [Oryza sativa (japonica cultivar-group)]

protein kinase-like protein [Oryza sativa (japonica cultivar-group)]

mechanosensitive ion channel domain-containing protein-like [Oryza sativa (japonica cultivar-group)

putative HIPL1 protein [Oryza sativa (japonica cultivar-group)]

putative cellulose synthase [Oryza sativa (japonica cultivar-group)]

cellulose synthase-4 [Oryza sativa (japonica cultivar-group)]

nitrate transporter, putative [Oryza sativa (japonica cultivar-group)]

voltage-dependent anion channel [Oryza sativa (japonica cultivar-group)]

P0460H02.3 [Oryza sativa (japonica cultivar-group)]

putative ribosomal protein [Oryza sativa (japonica cultivar-group)]

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putative aspartic proteinase nepenthesin [Oryza sativa (japonica cultivar-group)]

---

putative Clathrin coat assembly protein AP50 [Oryza sativa (japonica cultivar-group)]

ATP/ADP translocator [Oryza sativa (japonica cultivar-group)]

---

putative MAP kinase kinase [Oryza sativa (japonica cultivar-group)]

---

putative CER1 [Oryza sativa (japonica cultivar-group)]

---

putative receptor protein kinase PERK1 [Oryza sativa (japonica cultivar-group)]

---

guanine nucleotide-binding protein beta subunit [Oryza sativa (japonica cultivar-group)]

---

expressed protein [Oryza sativa (japonica cultivar-group)]

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putative alpha-coat protein [Oryza sativa]

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expressed protein [Oryza sativa (japonica cultivar-group)]

OSJNBa0095H06.6 [Oryza sativa (japonica cultivar-group)]

OSJNBa0081L15.5 [Oryza sativa (japonica cultivar-group)]

B1358B12.16 [Oryza sativa (japonica cultivar-group)]

OSJNBa0019K04.13 [Oryza sativa (japonica cultivar-group)]

OSJNBa0035M09.9 [Oryza sativa (japonica cultivar-group)]

OSJNBb0059K02.23 [Oryza sativa (japonica cultivar-group)]

OSJNBa0018M05.20 [Oryza sativa (japonica cultivar-group)]

OSJNBa0064G10.16 [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

voltage-dependent anion-selective channel (VDAC) protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative dolichyl-di-phosphooligosaccharide- protein [Oryza sativa (japonica cultivar-group)]

putative CLB1 protein (calcium-dependent lipid binding) protein [Oryza sativa (japonica cultivar-group)]

putative 1-acyl-sn-glycerol-3-phosphate acyltransferase [Oryza sativa (japonica cultivar-group)]

putative serine/threonine kinase protein [Oryza sativa (japonica cultivar-group)]

putative 27k vesicle-associated membrane protein-associated protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative potassium transporter [Oryza sativa (japonica cultivar-group)]

60S ribosomal protein L7A [Oryza sativa (japonica cultivar-group)]

PREDICTED OJ1014_E09.28 gene product [Oryza sativa (japonica cultivar-group)]

putative cytochrome P450 [Oryza sativa (japonica cultivar-group)]

putative calmodulin-binding heat-shock protein [Oryza sativa (japonica cultivar-group)]

expressed protein [Oryza sativa (japonica cultivar-group)]

putative serine/threonine-specific protein kinase

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putative cationic amino acid transporter

---

ribosomal protein L3, putative [Oryza sativa (japonica cultivar-group)]

---

hypothetical protein

Similar to probable serine/threonine-specific protein kinase (EC 2.7.1.-) T10P11.10 - Arabidopsis t

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AAA family ATPase, CDC48 subfamily

---

phospholipid-translocating P-type ATPase, flippase

---

expressed protein

---

hypothetical protein

---

flavodoxin, putative

---

cinnamic acid 4-hydroxylase

---

anthranilate phosphoribosyltransferase-like protein

---

ankyrin-repeat containing protein

Pyruvate kinase, barrel domain

expressed protein

phospholipase C

60s ribosomal protein l2 (l8) (ribosomal protein tl2).

calcium-translocating P-type ATPase, PMCA-type

putative ribosomal protein S19 [Oryza sativa (japonica cultivar-group)]

OSJNBa0083M16.33 [Oryza sativa (japonica cultivar-group)]

putative Vesicle-associated membrane protein [Oryza sativa (japonica cultivar-group)]

Putative adapter protein SPIKE1 [Oryza sativa (japonica cultivar-group)]

P0665A11.18 [Oryza sativa (japonica cultivar-group)]

putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]

putative annexin [Oryza sativa (japonica cultivar-group)]

putative HECT ubiquitin-protein ligase 3 [Oryza sativa (japonica cultivar-group)]

integral membrane family protein-like [Oryza sativa (japonica cultivar-group)]

hypothetical protein [Oryza sativa (japonica cultivar-group)]

putative 40S RIBOSOMAL PROTEIN S13 [Oryza sativa (japonica cultivar-group)]

putative 40S RIBOSOMAL PROTEIN S13 [Oryza sativa (japonica cultivar-group)]

putative calmodulin [Oryza sativa (japonica cultivar-group)]

putative quinone-oxidoreductase QR2 [Oryza sativa (japonica cultivar-group)]

putative 1,4-benzoquinone reductase' [Oryza sativa (japonica cultivar-group)]

putative phytase [Oryza sativa (japonica cultivar-group)]

putative temperature stress-induced lipocalin [Oryza sativa (japonica cultivar-group)]

putative serine-threonine protein kinase [Oryza sativa (japonica cultivar-group)]

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lipid transfer protein-like [Oryza sativa (japonica cultivar-group)]

---

expressed protein

---

serine/threonine protein kinase-like protein

---

expressed protein

---

probable protein transport protein SEC12p

PREDICTED P0654B04.18 gene product [Oryza sativa (japonica cultivar-group)]

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putative vesicle soluble NSF attachment protein receptor [Oryza sativa]

vesicle soluble NSF attachment protein receptor-like protein [Oryza sativa (japonica cultivar-group

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Putative endosperm specific protein [Oryza sativa (japonica cultivar-group)]

P0401G10.6 [Oryza sativa (japonica cultivar-group)]

P0454H12.21 [Oryza sativa (japonica cultivar-group)]

putative receptor protein kinase tmk1 precursor [Oryza sativa (japonica cultivar-group)]

putative protein kinase [Oryza sativa (japonica cultivar-group)]

putative harpin inducing protein [Oryza sativa (japonica cultivar-group)]

Putative ascorbate peroxidase [Oryza sativa (japonica cultivar-group)]

OSJNBa0027P08.20 [Oryza sativa (japonica cultivar-group)]

OSJNBb0078D11.11 [Oryza sativa (japonica cultivar-group)]

putative universal stress protein (USP) [Oryza sativa (japonica cultivar-group)]

transducin / WD-40 repeat protein-like [Oryza sativa (japonica cultivar-group)]

putative arm repeat-containing protein [Oryza sativa (japonica cultivar-group)]

probable AUX1-like permease, 10674-8589 [imported] - Arabidopsis thaliana

DHHC zinc finger domain, putative

respiratory burst oxidase homolog

calmodulin [Oryza sativa (indica cultivar-group)]

cytochrome b5 [Oryza sativa (japonica cultivar-group)]

triosephosphate isomerase [Oryza sativa]

OSJNBa0060N03.23 [Oryza sativa (japonica cultivar-group)]

OSJNBa0071I13.6 [Oryza sativa (japonica cultivar-group)]

putative leucine rich repeat protein [Oryza sativa (japonica cultivar-group)]

putative auxin transport protein [Oryza sativa (japonica cultivar-group)]

putative ribosomal protein S18A [Oryza sativa (japonica cultivar-group)]

putative phospholipid hydroperoxide glutathione peroxidase [Oryza sativa (japonica cultivar-group)]

calcium-dependent protein kinase [Oryza sativa]

Ras family, putative [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

P0408C03.24 [Oryza sativa (japonica cultivar-group)]

P0677H08.13 [Oryza sativa (japonica cultivar-group)]

guanine nucleotide-binding protein beta subunit-like protein (GPB-LR) (RWD) [Oryza sativa (japonica

putative disease resistance protein [Oryza sativa (japonica cultivar-group)]

putative SERK1 protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

hypothetical protein [Oryza sativa (japonica cultivar-group)]

putative syntaxin [Oryza sativa (japonica cultivar-group)]

SNF7-like protein [Oryza sativa (japonica cultivar-group)]

putative receptor-like protein kinase (having alternative splicing) [Oryza sativa (japonica cultiva

putative protease inhibitor [Oryza sativa (japonica cultivar-group)]

OSJNBa0068L06.10 [Oryza sativa (japonica cultivar-group)]

OSJNBa0055C08.14 [Oryza sativa (japonica cultivar-group)]

OSJNBb0022F23.4 [Oryza sativa (japonica cultivar-group)]

hypothetical protein [Oryza sativa (japonica cultivar-group)]

putative pectinesterase [Oryza sativa (japonica cultivar-group)]

putative PSR9 [Oryza sativa (japonica cultivar-group)]

putative peroxisomal membrane protein(22-kDa)(PMP22) [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

LEM3-like [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

endo-1,4-beta-D-glucanase

Polygalacturonase (pectinase)

Protein kinase domain, putative

phragmoplastin 5 - soybean

universal stress protein family

At2g28120/F24D13.9 [Arabidopsis thaliana (Mouse-ear cress)]

putative protein kinase [Oryza sativa (japonica cultivar-group)]

unnamed protein product [Oryza sativa (japonica cultivar-group)]

histidine amino acid transporter [Oryza sativa (indica cultivar-group)]

putative 60S ribosomal protein L23A [Oryza sativa (japonica cultivar-group)]

putative AUX1-like permease [Oryza sativa (japonica cultivar-group)]

putative calcium-dependent protein kinase [Oryza sativa (japonica cultivar-group)]

putative sexual differentiation process protein isp4 [Oryza sativa (japonica cultivar-group)]

r40g2 protein [Oryza sativa (japonica cultivar-group)]

TPR Domain, putative

putative endosperm C-24 sterol methyltransferase [Oryza sativa (japonica cultivar-group)]

putative secretory carrier membrane protein [Oryza sativa (japonica cultivar-group)]

BRI1-KD interacting protein 108 [Oryza sativa (japonica cultivar-group)]

OSJNBa0044K18.32 [Oryza sativa (japonica cultivar-group)]

putative receptor ser/thr protein [Oryza sativa (japonica cultivar-group)]

hypothetical protein

calcium-translocating P-type ATPase, PMCA-type

putative secretory carrier membrane protein [Oryza sativa (japonica cultivar-group)]

Ribosomal protein L19e, putative

unknown protein [Oryza sativa (japonica cultivar-group)]

putative SEC23 [Oryza sativa (japonica cultivar-group)]

AT5g10780/T30N20_50

putative racC protein [Oryza sativa (japonica cultivar-group)]

unnamed protein product [Oryza sativa (japonica cultivar-group)]

putative class I low-molecular-weight heat shock protein [Oryza sativa (japonica cultivar-group)]

secretory carrier membrane protein [Oryza sativa (japonica cultivar-group)]

putative secretory carrier membrane protein [Oryza sativa (japonica cultivar-group)]

putative proline transporter 1 [Oryza sativa (japonica cultivar-group)]

expressed protein

OSJNBa0069D17.1 [Oryza sativa (japonica cultivar-group)]

putative Serine/threonine protein phosphatase BSL1 [Oryza sativa (japonica cultivar-group)]

expressed protein

protein kinase -like [Oryza sativa (japonica cultivar-group)]

ABC transporter protein, putative

putative ubiquitin-specific protease [Oryza sativa (japonica cultivar-group)]

putative serine/threonine kinase [Oryza sativa (japonica cultivar-group)]

Hypothetical protein [Oryza sativa (japonica cultivar-group)]

putative transaldolase [Oryza sativa (japonica cultivar-group)]

OSJNBa0043A12.26 [Oryza sativa (japonica cultivar-group)]

putative ribosomal protein L13a [Oryza sativa (japonica cultivar-group)]

Viral A-type inclusion protein repeat, putative

Exocyst complex component Sec6

Protein kinase domain, putative

NB-ARC domain, putative

Leucine Rich Repeat, putative

OSJNBb0004A17.6 [Oryza sativa (japonica cultivar-group)]

Leucine Rich Repeat, putative

Mo25 protein family

Sugar transporter

OSJNBa0091C12.3 [Oryza sativa (japonica cultivar-group)]

PREDICTED OSJNBb0088N06.17 gene product [Oryza sativa (japonica cultivar-group)]

putative cellulase [Oryza sativa (japonica cultivar-group)]

unknown protein, contains IQ calmodulin-binding motif' [Oryza sativa (japonica cultivar-group)]

OSJNBa0093F12.6 [Oryza sativa (japonica cultivar-group)]

OSJNBa0016O02.6 [Oryza sativa (japonica cultivar-group)]

expressed protein [Oryza sativa (japonica cultivar-group)]

putative leucine-rich repeat/receptor protein kinase [Oryza sativa (japonica cultivar-group)]

MAP3K-like protein kinase [Oryza sativa (japonica cultivar-group)]

Kinesin motor domain, putative

expressed protein [Oryza sativa (japonica cultivar-group)]

hypothetical protein [Oryza sativa]

Leucine Rich Repeat, putative [Oryza sativa (japonica cultivar-group)]

C2 domain-containing protein-like [Oryza sativa (japonica cultivar-group)]

P0423B08.25 [Oryza sativa (japonica cultivar-group)]

putative zinc transporter [Oryza sativa (japonica cultivar-group)]

OSJNBa0088K19.16 [Oryza sativa (japonica cultivar-group)]

hypothetical protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative RING-H2 zinc finger protein ATL6 [Oryza sativa (japonica cultivar-group)]

putative nodule-specific protein [Oryza sativa (japonica cultivar-group)]

OSJNBa0086B14.21 [Oryza sativa (japonica cultivar-group)]

kinesin-like protein

auxin-induced protein-like [Oryza sativa (japonica cultivar-group)]

putative leucine-rich repeat transmembrane protein kinase [Oryza sativa (japonica cultivar-group)]

TPA: class III peroxidase 27 precursor [Oryza sativa (japonica cultivar-group)]

Unknown protein [Oryza sativa (japonica cultivar-group)]

putative MFP1 attachment factor 1 [Oryza sativa (japonica cultivar-group)]

ABC transporter, putative

putative fructose-bisphosphate aldolase [Oryza sativa (japonica cultivar-group)]

alpha 3 subunit of 20S proteasome [Oryza sativa (japonica cultivar-group)]

putative esterase [Oryza sativa (japonica cultivar-group)]

putative Cgi67 serine protease [Oryza sativa (japonica cultivar-group)]

expressed protein

putative beta-1,3-glucanase [Oryza sativa (japonica cultivar-group)]

hypothetical protein

L1P family of ribosomal proteins

Harpin-induced protein 1 (Hin1), putative

alpha-amylase (EC 3.2.1.1) isozyme III - rice

nitrate transporter [Oryza sativa]

phospholipid-translocating P-type ATPase, flippase

probable membrane transporter At2g26510 [imported] - Arabidopsis thaliana

serine/threonine protein kinase-like protein [Oryza sativa (japonica cultivar-group)]

putative zinc transporter [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative cyclophilin [Oryza sativa (japonica cultivar-group)]

translation initiation factor, eIF-5A [Oryza sativa]

casein kinase II alpha subunit [Oryza sativa (japonica cultivar-group)]

Hd6 [Oryza sativa (indica cultivar-group)]

phosphate:H+ symporter

putative 60S ribosomal protein L12 [Oryza sativa (japonica cultivar-group)]

Major Facilitator Superfamily

putative ER6 protein [Oryza sativa (japonica cultivar-group)]

putative ribosomal protein L17 [Oryza sativa (japonica cultivar-group)]

Putative 40S Ribosomal protein [Oryza sativa]

40S ribosomal protein S16

sterol 14-demethylase [Oryza sativa (japonica cultivar-group)]

UDP-glucuronic acid decarboxylase [Oryza sativa (japonica cultivar-group)]

Putative C-terminal binding protein [Oryza sativa (japonica cultivar-group)]

hypothetical protein [Oryza sativa (japonica cultivar-group)]

porin-like protein [Oryza sativa (japonica cultivar-group)]

senescence-associated protein-like protein [Oryza sativa (japonica cultivar-group)]

NB-ARC domain, putative [Oryza sativa (japonica cultivar-group)]

dwarf protein, OSDIM [Oryza sativa (japonica cultivar-group)]

protein kinase, putative [Oryza sativa (japonica cultivar-group)]

putative glycoprotein [Oryza sativa (japonica cultivar-group)]

putative phosphogluconate dehydrogenase [Oryza sativa (japonica cultivar-group)]

putative 60S ribosomal protein L13E [Oryza sativa (japonica cultivar-group)]

betaine aldehyde dehydrogenase-like [Oryza sativa (japonica cultivar-group)]

putative signal peptidase subunit [Oryza sativa (japonica cultivar-group)]

putative disease resistance response protein-related/ dirigent protein-related [Oryza sativa (japon

unknown protein [Oryza sativa (japonica cultivar-group)]

putative 60S ribosomal protein L24 [Oryza sativa (japonica cultivar-group)]

hypothetical protein [Oryza sativa (japonica cultivar-group)]

Hypothetical protein [Oryza sativa (japonica cultivar-group)]

unnamed protein product [Oryza sativa (japonica cultivar-group)]

unnamed protein product [Oryza sativa (japonica cultivar-group)]

putative pM5 collagenase [Oryza sativa (japonica cultivar-group)]

P0423A12.20 [Oryza sativa (japonica cultivar-group)]

putative serine/threonine kinase PBS1 protein [Oryza sativa (japonica cultivar-group)]

putative dermal glycoprotein precursor [Oryza sativa (japonica cultivar-group)]

putative amino acid transport protein [Oryza sativa (japonica cultivar-group)]

P0491F11.23 [Oryza sativa (japonica cultivar-group)]

auxin transport protein-like [Oryza sativa (japonica cultivar-group)]

putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]

OJ1414_E05.5 [Oryza sativa (japonica cultivar-group)]

P0019E03.5 [Oryza sativa (japonica cultivar-group)]

OSJNBb0006H05.18 [Oryza sativa (japonica cultivar-group)]

OSJNBb0006H05.19 [Oryza sativa (japonica cultivar-group)]

voltage-dependent anion channel [Oryza sativa (japonica cultivar-group)]

putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]

P0496H05.21 [Oryza sativa (japonica cultivar-group)]

B1151A10.19 [Oryza sativa (japonica cultivar-group)]

B1112D09.9 [Oryza sativa (japonica cultivar-group)]

Ser/Thr protein kinase-like protein [Oryza sativa (japonica cultivar-group)]

putative proton pump [Oryza sativa (japonica cultivar-group)]

putative Ras-related protein Rab [Oryza sativa (japonica cultivar-group)]

putative RNA-binding protein [Oryza sativa (japonica cultivar-group)]

putative kinase [Oryza sativa (japonica cultivar-group)]

putative cyclic nucleotide-gated calmodulin-binding ion channel [Oryza sativa (japonica cultivar-gr

unknown protein [Oryza sativa (japonica cultivar-group)]

putative beta-alanine synthase [Oryza sativa (japonica cultivar-group)]

thioredoxin family-like protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

expressed protein [Oryza sativa (japonica cultivar-group)]

ER lumen protein-retaining receptor-like [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative peptide transport protein [Oryza sativa (japonica cultivar-group)]

B1147A04.10 [Oryza sativa (japonica cultivar-group)]

putative minor histocompatibility antigen H13 isoform 1 [Oryza sativa (japonica cultivar-group)]

putative TIP120 protein [Oryza sativa (japonica cultivar-group)]

putative copper-transporting P-type ATPase [Oryza sativa (japonica cultivar-group)]

putative ABC transporter [Oryza sativa (japonica cultivar-group)]

putative pattern formation protein GNOM [Oryza sativa (japonica cultivar-group)]

cytokinesis-related Sec1 protein-like [Oryza sativa (japonica cultivar-group)]

putative sterol delta-7 reductase [Oryza sativa (japonica cultivar-group)]

putative copine III [Oryza sativa (japonica cultivar-group)]

zinc finger (C3HC4-type RING finger)-like protein [Oryza sativa (japonica cultivar-group)]

putative 60S ribosomal protein L6 (RPL6C) [Oryza sativa (japonica cultivar-group)]

putative b-keto acyl reductase [Oryza sativa (japonica cultivar-group)]

putative vesicle-associated membrane protein-associated protein [Oryza sativa (japonica cultivar-gr

putative RING finger 1 [Oryza sativa (japonica cultivar-group)]

putative short-chain dehydrogenase/reductase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative SEC6 [Oryza sativa (japonica cultivar-group)]

aspartyl protease-like [Oryza sativa (japonica cultivar-group)]

putative growth-on protein GRO10 [Oryza sativa (japonica cultivar-group)]

UDP-glucose dehydrogenase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa]

40S ribosomal protein S23 [Oryza sativa (japonica cultivar-group)]

Putative GTP-binding protein [Oryza sativa]

Putative phosphoserine aminotransferase [Oryza sativa (japonica cultivar-group)]

putative late embryogenesis abundant protein [Oryza sativa (japonica cultivar-group)]

OSJNBb0050O03.8 [Oryza sativa (japonica cultivar-group)]

OSJNBa0084A10.16 [Oryza sativa (japonica cultivar-group)]

OSJNBa0086B14.22 [Oryza sativa (japonica cultivar-group)]

OSJNBa0006M15.20 [Oryza sativa (japonica cultivar-group)]

OSJNBa0004N05.8 [Oryza sativa (japonica cultivar-group)]

OSJNBa0038O10.10 [Oryza sativa (japonica cultivar-group)]

OSJNBb0103I08.5 [Oryza sativa (japonica cultivar-group)]

OSJNBa0008M17.5 [Oryza sativa (japonica cultivar-group)]

OSJNBb0059K02.15 [Oryza sativa (japonica cultivar-group)]

OSJNBa0060D06.10 [Oryza sativa (japonica cultivar-group)]

OSJNBa0032F06.12 [Oryza sativa (japonica cultivar-group)]

putative 60S ribosomal protein L24 [Oryza sativa (japonica cultivar-group)]

hypothetical protein [Oryza sativa (japonica cultivar-group)]

putative ribosomal protein L35A [Oryza sativa (japonica cultivar-group)]

putative 60S ribosomal protein [Oryza sativa (japonica cultivar-group)]

putative Mannose-P-dolichol utilization defect 1 protein homolog [Oryza sativa (japonica cultivar-g

hypothetical protein [Oryza sativa (japonica cultivar-group)]

putative calcium-dependent protein kinase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative 60S ribosomal protein L27a [Oryza sativa (japonica cultivar-group)]

putative cytoplasmic ribosomal protein L18 [Oryza sativa (japonica cultivar-group)]

putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative cold shock protein-1 [Oryza sativa (japonica cultivar-group)]

putative blue copper binding protein [Oryza sativa (japonica cultivar-group)]

putative vesicle-associated membrane protein-associated protein [Oryza sativa (japonica cultivar-gr

putative Na+/K+/Cl-cotransport protein [Oryza sativa (japonica cultivar-group)]

putative GMP synthetase [Oryza sativa (japonica cultivar-group)]

putative ABC transporter [Oryza sativa (japonica cultivar-group)]

putative Cyt-P450 monooxygenase [Oryza sativa (japonica cultivar-group)]

putative blue copper protein precursor [Oryza sativa (japonica cultivar-group)]

putative protein phosphatase 2C [Oryza sativa (japonica cultivar-group)]

DnaJ protein family-like [Oryza sativa (japonica cultivar-group)]

putative signal recognition particle receptor beta subunit (SR-beta) [Oryza sativa (japonica cultiv

putative auxin-induced protein [Oryza sativa (japonica cultivar-group)]

putative DHHC-type zinc finger domain-containing protein [Oryza sativa (japonica cultivar-group)]

putative ER lumen protein-retaining receptor [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative elicitor inducible beta-1,3-glucanase [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative cyclic nucleotide and calmodulin-regulated ion channel [Oryza sativa (japonica cultivar-gr

putative annexin [Oryza sativa (japonica cultivar-group)]

putative PrMC3 [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative isoleucine-tRNA ligase [Oryza sativa (japonica cultivar-group)]

putative NTGP5 [Oryza sativa (japonica cultivar-group)]

putative t-complex protein 1 theta chain [Oryza sativa (japonica cultivar-group)]

putative cyclic nucleotide gated channel homolog [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative auxin efflux carrier protein [Oryza sativa (japonica cultivar-group)]

putative cullin 1 [Oryza sativa (japonica cultivar-group)]

putative 2-oxoglutarate/malate translocator [Oryza sativa (japonica cultivar-group)]

unknown protein [Oryza sativa (japonica cultivar-group)]

putative diacylglycerol acyltransferase [Oryza sativa (japonica cultivar-group)]

40S ribosomal protein S30-like [Oryza sativa (japonica cultivar-group)]

Eukaryotic protein of unknown function (DUF841) [Oryza sativa (japonica cultivar-group)]

probable long-chain-fatty-acid-CoA ligase (EC 6.2.1.3) isoform 2 - rape

expressed protein

cytochrome b5 reductase

Protein kinase domain, putative

Pyridine nucleotide-disulphide oxidoreductase, putative

Protein kinase domain, putative

probable calmodulin binding transport protein - barley

probable b-keto acyl reductase (EC 1.1.-.-) - barley

expressed protein

Ribosomal protein S28e, putative

enolase

pyruvate decarboxylase

hypothetical protein

expressed protein

Protease inhibitor/seed storage/LTP family, putative

putative beta-glucosidase

probable beta-1,3-glucanase [imported] - Arabidopsis thaliana

thaumatin homolog T22A6.10 - Arabidopsis thaliana

hypersensitive-induced reaction protein 4

profilin 1

hypothetical protein

Armadillo/beta-catenin-like repeat, putative

Protein kinase domain, putative

hypothetical protein

Similar to F2D10.25

1,3-beta-glucan synthase component, putative

acyl-CoA synthetase, putative

xanthine/uracil permease family protein

hypothetical protein

Similar to probable receptor-like protein kinase [imported] - Arabidopsis thaliana

Similar to protein kinase homolog T1F15.2 - Arabidopsis thaliana

serine hydroxymethyltransferase

Zinc finger, C3HC4 type (RING finger), putative

At3g62580/T12C14_280 [Arabidopsis thaliana (Mouse-ear cress)]

At5g64090 Oryza sativa (japonica cultivar-group)

dnaK protein, putative

At5g42240/K5J14_4

signal peptide peptidase, putative

hypothetical protein

ATP synthase F0 subunit 1 [Oryza sativa (japonica cultivar-group)]

unknown [Oryza sativa]

eukaryotic initiation factor 4A [Oryza sativa (japonica cultivar-group)]

pyruvate decarboxylase [Oryza sativa (japonica cultivar-group)]

transmembrane protein [Oryza sativa]

putative GI1 [Oryza sativa (japonica cultivar-group)].

aquaporin [Oryza sativa]

cycloartenol-C24-methyltransferase [Oryza sativa subsp. japonica]

hypothetical protein [Oryza sativa subsp. indica]

delta-1-pyrroline-5-carboxylate synthetase [Oryza sativa (japonica cultivar-group)]

importin alpha 1b [Oryza sativa (japonica cultivar-group)]

heat shock protein 90 [Oryza sativa]

phosphate transporter [Oryza sativa]

phosphoenolpyruvate carboxylase [Oryza sativa]

putative glutathione S-transferase OsGSTF4 [Oryza sativa (japonica cultivar-group)]

phosphoinositide-specific phospholipase C [Oryza sativa]

putative 60S ribosomal protein [Oryza sativa (japonica cultivar-group)]

UDP-glucuronic acid decarboxylase [Oryza sativa (japonica cultivar-group)]

adenosine kinase [Oryza sativa]

importin beta 1 [Oryza sativa (japonica cultivar-group)]

PDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]

phosphoenolpyruvate carboxylase [Oryza sativa (indica cultivar-group)]

receptor-like protein kinase-like protein [Oryza sativa (japonica cultivar-group)]

oxo-phytodienoic acid reductase [Oryza sativa (japonica cultivar-group)]

Ribosomal S17 [Oryza sativa (japonica cultivar-group)]

RNA binding protein Rp120 [Oryza sativa (japonica cultivar-group)]

P0672D08.29 [Oryza sativa (japonica cultivar-group)]

putative receptor ser/thr protein kinase [Oryza sativa (japonica cultivar-group)]

putative eukaryotic translation initiation factor 3 large subunit [Oryza sativa (japonica cultivar

putative 60S ribosomal protein L11 [Oryza sativa (japonica cultivar-group)]

putative pyrophosphate-fructose-6-phosphate-1-phosphotransferase [Oryza sativa (japonica cultivar-g

ribosomal protein s6 RPS6-2 [Oryza sativa (japonica cultivar-group)]

putative 60S RIBOSOMAL PROTEIN L36 [Oryza sativa (japonica cultivar-group)]

putative 40S ribosomal protein S24 [Oryza sativa (japonica cultivar-group)]

putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]

P0704D04.8 [Oryza sativa (japonica cultivar-group)]

putative peroxisome-bound ascorbate peroxidase [Oryza sativa (indica cultivar-group)]

putative leucine-rich repeat transmembrane protein kinase 1 [Oryza sativa (japonica cultivar-group

putative RNA polymerase sigma factor [Oryza sativa (japonica cultivar-group)]

putative 60S ribosomal protein L27a [Oryza sativa (japonica cultivar-group)]

putative UDP-glucose dehydrogenase [Oryza sativa (japonica cultivar-group)]

putative nucleoid DNA-binding-like protein [Oryza sativa (japonica cultivar-group)]

zinc finger (C3HC4-type RING finger) protein-like [Oryza sativa (japonica cultivar-group)]

putative wall-associated kinase [Oryza sativa (japonica cultivar-group)]

receptor protein kinase-like [Oryza sativa (japonica cultivar-group)]

putative 40S ribosomal protein S2 [Oryza sativa (japonica cultivar-group)]

putative trypanothione-dependent peroxidase [Oryza sativa (japonica cultivar-group)]

putative 40S ribosomal protein 25S [Oryza sativa (japonica cultivar-group)]

V-type H(+)-translocating pyrophosphatase, putative

At1g47330/T3F24_2

AT4g39080/F19H22_180

ribosomal protein S13p/S18e

calcium-dependent protein kinase

protein transport protein subunit, putative

Similar to auxin transport protein REH1

NBS-LRR disease resistance protein homologue

allantoin permease

crocetin dialdehyde

sion from NCBInr or TIGR rice (versions as given in Experimental Procedures);
Cyto, cytosolic; ER, endoplasmic reticulum; Mito, mitochondria); TMDs, number

MW (Da)	p*I*	Location	TMDs	Classification
41567	6.32	Cyto	0	Metabolism
92568	5.96	PM-associated	0	CW
105717	6.34	PM	8	A

105883	6.61	PM	8	A
104830	6.69	PM	9	A
105208	6.34	PM	9	A
105356	6.69	PM	8	A
105641	6.13	PM	8	A
105385	6.52	PM	9	A
24022	5.53	PM-associated	0	CT

24543	5.22	PM-associated	0	CT
24185	5.59	PM-associated	0	CT
24158	6.13	PM-associated	0	CT
23889	7.77	PM-associated	0	CT
50955	4.74	Cytoskeleton	0	St
50834	4.73	Cytoskeleton	0	St
50716	4.73	Cytoskeleton	0	St
50937	4.73	Cytoskeleton	0	St
29274	4.81	Cyto	0	Sg
29096	4.85	Cyto	0	Sg
28979	4.78	Cyto	0	Sg
29358	4.83	Cyto	0	Sg
29845	4.71	Cyto	0	Sg

22775	5.33	Vesicle-associated	0	CT
50449	9.83	Vesicle-associated	0	CT
23935	7.63	Vesicle-associated	0	CT
24197	7.68	Vesicle-associated	0	CT
22846	5.33	Vesicle-associated	0	CT
24149	7.63	Vesicle-associated	0	CT
90746	5.96	PM	3	R
59940	5.93	ER	0	Kinase
23231	6.95	Vesicle-associated	0	CT
23234	6.96	Vesicle-associated	0	CT
50529	4.88	Cytoskeleton	0	St

50423	4.85	Cytoskeleton	0	St
39254	6.3	Unknown	0	Unknown
102223	5.98	PM	2	Kinase
80564	5.54	Tonoplast	13	T
80512	5.39	Tonoplast	14	T
80312	5.47	Tonoplast	14	T
71352	5.17	Cyto	0	Chaperone

73573	5.09	ER	1	Chaperone
71306	5.1	Cyto	0	Chaperone
71666	5.1	Cyto	0	Chaperone
71190	5.1	Cyto	0	Chaperone
74438	5.09	ER	1	Chaperone
71455	5.1	Cyto	0	Chaperone
49590	9.09	Polysome	0	Translation
22789	9.14	UM	1	Stress

23480	7.87	Cyto	0	Metabolism
36641	6.61	Cyto	0	Metabolism
30494	8.63	PM	6	Channel
42032	7.64	Unknown	0	Kinase
43498	6.8	Unknown	0	Kinase
74502	8.07	PM	1	R
72987	7.44	PM	3	R
77300	6.73	PM	1	Kinase
75582	8.08	PM	3	Kinase

81000	6.62	PM	2	Stress
61520	6.28	PM	2	R
44912	9.72	Unknown	0	Kinase
76324	5.95	Mito	2	Kinase
69383	5.1	PM	1	Kinase
78242	6.36	PM	2	Kinase
72764	6.34	PM	1	Kinase
71075	6.08	PM	1	Kinase
92846	9.22	PM	2	Stress

57234	8.39	PM	12	T
31814	5.22	Cyto	0	Stress
31886	6.01	Cyto	0	Stress
31501	5.22	Cyto	0	Stress
63282	6.77	Unknown	0	Unknown
57969	8.77	PM	10	T
54115	5.36	PM	GPI	CW
38146	7.37	PM	1	Unknown
57762	8.57	PM	12	T

56908	8.97	PM	11	T
163311	6.71	PM	13	T
170486	7.11	PM	13	T
167303	7.83	UM	13	T

167119	6.27	PM	12	T
162846	6.71	PM	13	T
162412	7.82	PM	13	T
164422	8.46	UM	13	T
147237	9.53	PM	12	T
145675	8.66	PM	12	T
136942	8.39	PM	10	T
137663	8.54	PM	9	T

138127	6.83	PM	11	T
138306	8.35	UM	11	T
135424	8.47	PM	11	T
137477	8.88	PM	10	T

74110	7.72	PM	2	R
75479	8.4	PM	1	R
74894	7.75	UM	1	R
73940	6.35	PM	1	Kinase
99971	6.87	PM	3	Kinase
78024	6.34	UM	2	Kinase
24574	5.74	Vesicle-associated	0	CT
23337	5.38	Vesicle-associated	0	CT
41092	6.15	Unknown	0	Kinase
39895	6.32	Mito	0	Kinase
39628	7.67	Unknown	0	Kinase

43914	6.97	Unknown	0	Kinase
64307	7.4	UM	1	R
99466	9.21	PM-associated	0	CW
118008	5.49	PM-associated	0	CT
34343	7.71	PM	1	CT

91599	5.07	ER	0	A
14813	4.83	PM	1	Other
227349	9.19	PM	16	CW
58036	9.45	PM	11	T
22384	9.74	Ribosome	0	Ribosomal
47969	8.6	PM	GPI	Stress
57273	8.69	UM	1	Kinase
43330	5.68	Cyto	0	Metabolism

88114	6.18	PM-associated	0	CT
73046	8.83	PM	2	R
63627	5.63	PM	10	T
21355	11.41	Ribosome	0	Ribosomal
40287	6.58	ER	0	Prot M
65937	6.1	PM	1	Unknown
98851	5.53	PM-associated	0	Sg

63260	9.34	PM	12	Unknown
56593	9.23	PM	9	R
20752	6.43	Vesicle-associated	0	CT
23045	7.67	Vesicle-associated	0	CT
124174	5.68	Unknown	0	Unknown
232547	8.3	PM	8	CW
71107	6.59	PM	2	Kinase
21987	6.32	Vesicle-associated	0	CT

68835	8.62	PM	2	R
71839	5.67	PM	0	Metabolism
93904	5.17	Cyto	0	Chaperone
74270	6.14	ER	4	Prot M
100612	5.98	Unknown	0	Unknown
61549	6.33	PM	1	Unknown
61159	6.36	PM	1	Unknown
83508	6.3	PM	1	CW

207793	9.27	PM	15	CW
97096	5.88	PM	1	R
27327	9.44	UM	4	Unknown
105927	5.86	Unknown	0	Unknown
71021	7.18	PM	2	R
73820	6.35	PM	7	Unknown
71970	8.2	PM	1	Kinase
90934	5.84	Cyto	0	CW

73682	7.44	PM	1	Kinase
71694	7.03	PM	1	Kinase
129723	8.63	PM	8	T
139482	6.42	PM	4	Kinase
69926	5.97	PM	1	Kinase
69211	6.01	PM	1	R
80449	4.98	Cyto	0	Chaperone
118330	7	PM	10	A

116052	6.39	PM	6	A
121669	6.39	PM	8	A
45245	8.86	Peroxisome	0	Unknown
56705	8.17	PM	1	R
138678	8.57	PM	9	T
28500	5.47	Cyto	0	Kinase
112192	5.89	PM	2	Kinase
100091	7.85	ER	1	Kinase
115438	6.91	PM	2	Kinase

35848	4.95	PM	2	CT
17401	8.62	PM	2	Unknown
19427	8.77	PM	2	Other
59659	6.93	PM	0	Kinase
95970	6.51	PM-associated	0	Sg
78888	8.91	PM	6	T

77157	8.96	PM	6	T
109259	7.9	UM	1	Unknown
53853	5.19	PM	1	CW
42310	6.19	Cyto	0	Metabolism
68073	5.51	PM	1	Kinase
67285	5.36	PM	1	Kinase
24034	4.73	PM-associated	0	Unknown
94987	5.85	Polysome	0	Translation
81660	5.72	PM	GPI	Unknown

79070	8.31	PM	12	T
139124	9.28	PM	11	T
54628	6.31	Cyto	0	Kinase
128326	5.64	Unknown	0	Unknown
63287	6.51	PM	GPI	CW

210051	5.84	PM-associated	0	Kinase
72299	8.79	PM	2	R
68217	8.39	Cytoskeleton	0	CT
139143	9.07	Unknown	0	Unknown
66576	9.12	PM	3	Metabolism
112334	8.25	Vesicle-associated	0	CT

66125	5.87	Unknown	0	CW
22056	6.26	UM	3	Unknown
60920	4.72	ER	1	Chaperone
125295	5.61	Unknown	0	Unknown
67067	7.16	PM	1	Kinase
44679	6.18	PM	GPI	Unknown
117446	5.79	PM	3	Kinase

112331	7.15	PM	2	Kinase
113629	8.03	PM	2	Kinase
65260	6.99	ER	1	Unknown
76581	5.13	UM	1	Metabolism
79935	7.46	PM	10	Unknown
115238	9.1	PM	2	Unknown
56050	5.63	Cyto	0	Kinase

72132	7.21	Vesicle-associated	0	CT
18163	5.22	Cyto	0	Stress
60993	6.96	Cytoskeleton	0	CT
73092	8.21	Cytoskeleton	0	CT
47687	4.96	Unknown	0	Unknown
53286	8.8	PM	9	Channel
109576	5.77	PM	1	R
114006	5.71	PM	1	R
51624	5.26	PM	2	CW

48759	5.62	PM	1	CW
48450	4.47	ER	1	Chaperone
123242	6.59	Secreted	0	CW
19940	8.46	PM	4	Unknown
95748	8.23	PM	2	R
46726	5.57	cyto	0	Sg
38638	6.45	Unknown	0	Unknown
71524	6.18	PM	1	CW
19447	4.72	Cytoskeleton	0	St
17278	8.77	PM	2	Unknown

34470	5.38	Ribosome	0	Ribosomal
52176	9.3	UM	2	Unknown
43741	8.23	PM	0	Unknown
84096	5.38	Unknown	0	Metabolism
41038	9.63	PM	5	Other
64534	5.29	PM	1	R
116319	5.17	PM	7	A
41390	4.7	PM	1	Stress

82347	9.32	PM	10	Unknown
21361	8.69	PM	2	Unknown
23667	8.11	PM	GPI	Unknown
39370	8.25	PM	1	Unknown
81591	5.72	Vesicle-associated	0	CT
59530	8.76	PM	12	T
59510	5.15	Unknown	0	Unknown
72190	5.81	PM	1	Kinase

107978	6.01	UM	2	Kinase
100403	5.47	PM	0	CT
60023	6.05	Chloroplast	0	Kinase
105030	6.8	PM	1	Sg
93112	6.11	Unknown	0	Unknown
99787	4.99	PM	0	CT
48186	8.9	Nucleus	0	Unknown

221630	8.83	PM	16	CW
118635	6.3	PM	6	Channel
168223	8.06	Unknown	0	Unknown
47970	8.27	Chloroplast	0	Unknown
36236	9.6	Mito	0	Unknown

102663	5.37	PM	1	Kinase
194536	5.25	Vesicle-associated	0	CT
83439	6.93	PM	2	Kinase

21024	9.08	PM	1	Stress
88667	5.62	Cyto	0	Prot M
45395	5.76	Unknown	0	Kinase
88668	9.45	PM	12	T
85133	5.93	Cyto	0	Metabolism
75701	5.26	PM	1	Metabolism
98977	5.69	PM	1	Kinase
71182	6.33	PM	1	Kinase

42014	5.3	Cytoskeleton	0	St
41929	5.23	Cytoskeleton	0	St
21224	8.77	Cyto	0	Prot M
18634	8.61	cyto	0	Prot M
44464	6.64	PM-associated	0	GTP
53072	6.82	PM	11	T
47046	5.22	Unknown	0	Unknown
57713	8.73	PM	10	T
232495	4.86	Nucleus	0	Other
36179	6.27	Unknown	0	Metabolism

25741	8.85	PM	1	Unknown
86629	5.27	PM	2	Unknown
52935	8.4	PM	1	Metabolism
66588	4.65	Unknown	0	Unknown
64080	4.59	Unknown	0	Unknown
16410	10.45	Ribosome	0	Ribosomal
126740	5.75	UM	1	Kinase
25066	8.96	UM	1	CT
92854	7.77	PM	0	Kinase

58297	8.26	PM	11	T
38267	7	Unknown	0	Unknown
76282	9.1	PM	3	Kinase
98960	4.8	nucleus	0	Unknown
89976	7.16	PM	10	T
98464	6.95	UM	1	R
38915	9.23	UM	5	Unknown
86229	5.17	Unknown	0	Unknown
42794	5.7	Unknown	0	Kinase
109998	6.3	PM	2	Unknown

181112	6.44	Nucleus	0	Other
36050	9.27	PM	7	Prot M
104567	6.25	PM	1	Kinase
68049	7.83	PM	1	R
108286	6.9	PM	6	T
40005	5.75	Mito	0	Kinase
92350	5.74	PM	2	R
89600	6.61	UM	1	Kinase
88801	5.12	PM-associated	0	CT
87767	5.65	Vesicle-associated	0	CT

50171	5.72	PM-associated	0	CW
48299	5.42	Cyto	0	Metabolism
25137	10.38	Ribosome	0	Ribosomal
93845	5.92	PM-associated	0	Sg
122730	6.68	PM	8	CW
51821	5.43	Cyto	0	CW
85213	8.91	PM	13	T
53803	5.42	Cyto	0	Metabolism
31832	7.74	Peroxisome	1	Stress
58439	5.42	Unknown	0	Metabolism
53860	5.62	Cyto	0	Metabolism

48152	5.08	Unknown	0	Unknown
41114	6.43	ER	1	Prot M
63676	8.91	Unknown	0	Unknown
54785	6.2	Unknown	0	Kinase
131366	7.49	PM	6	CW
42165	5.06	UM	1	Sg
63127	9.45	Nucleus	0	Kinase
81949	6.48	PM	2	Kinase
92622	4.98	Vesicle-associated	0	CT
57334	7.23	UM	2	Other
68617	5.73	Unknown	0	Unknown
63875	6.48	PM	2	T

205406	9.48	PM	11	CW
46086	8.95	PM	1	Kinase
28658	10.09	Ribosome	0	Ribosomal
71500	7.26	Unknown	0	Unknown
58824	7.92	Unknown	0	Unknown
108816	9.19	PM	6	Channel
76381	5.22	PM	1	Metabolism
125305	6.74	PM	8	CW
121971	8.03	PM	6	CW
64035	9.08	PM	9	T
29202	7.07	PM	B	Channel
25827	8.42	Unknown	0	Metabolism

25590	9.55	Ribosome	0	Ribosomal
53054	5.03	PM	GPI	Prot M
49638	9.32	Vesicle-associated	0	CT
41655	9.79	Mito	3	T
40261	9.45	Unknown	0	Kinase
72107	8.64	UM	4	Metabolism
81159	7.37	PM	2	R
42467	7.13	cyto	0	GTP
46830	5.49	PM	3	Unknown
137435	6.44	Vesicle-associated	0	CT
18326	4.57	PM	GPI	Unknown
119413	5.7	UM	2	Kinase

34857	9.92	ER	1	Metabolism
70766	8.91	PM	2	Kinase
58416	8.56	UM	1	Other
52005	9.48	UM	2	Unknown
68824	9.24	PM	9	T
81136	8.98	PM	11	Unknown
55875	8.15	Unknown	0	Metabolism
54080	5.74	PM	2	Unknown
29584	8.56	PM	B	Channel
63408	5.25	Cytoskeleton	0	CT
60077	5.42	ER	1	Unknown
48417	6.31	ER	2	Prot M

55457	8.51	ER	3	Unknown
43056	8.69	PM	2	Metabolism
77820	6.31	PM	2	Kinase
30752	9.15	Vesicle-associated	0	CT
78260	5.96	PM	1	Prot M
88281	7.86	PM	11	T
29457	10.35	Ribosome	0	Ribosomal
44825	10.54	Ribosome	0	Ribosomal
59164	8.05	Unknown	0	Other
51822	7.9	PM	1	Metabolism
50165	9.21	Unknown	0	Unknown

45803	8.81	ER	1	Kinase
62278	8.58	PM	14	T
44835	10.1	Ribosome	0	Ribosomal
22092	9.15	UM	1	Unknown
58900	9.23	UM	1	Kinase
90429	5.12	Vesicle-associated	0	CT
147923	5.79	PM	10	A
40412	9.69	UM	1	Unknown
85980	6.03	Unknown	0	Unknown
21653	9.04	Chloroplast	0	Other
57075	9.02	UM	1	Other
89745	9.21	PM	2	Metabolism
190393	6.06	PM	0	Kinase

57862	6.3	Cyto	0	Metabolism
59628	5.73	UM	2	Unknown
54916	6.61	PM-associated	0	Sg
28460	10.99	Ribosome	0	Ribosomal
112163	5.86	PM	8	A
16434	10.04	Ribosome	0	Ribosomal
35237	6.15	Cyto	0	Unknown
27341	9.23	Vesicle-associated	1	CT
210519	5.84	Unknown	0	GTP
16893	9.13	PM	2	Unknown
75651	6.34	PM	1	Kinase

35814	8.9	PM-associated	0	Sg
194303	5.45	cyto	0	Prot M
21948	5.58	UM	3	Unknown
79610	9.04	UM	4	Unknown
17838	10.47	Ribosome	0	Ribosomal
17135	10.53	Ribosome	0	Ribosomal
16672	4.89	PM-associated	0	Sg
21576	6.09	Cyto	0	Metabolism
21616	6.3	Cyto	0	Metabolism
68927	6.03	PM	1	Metabolism
20687	6.1	peroxisome	0	Stress

112354	5.32	PM	2	Kinase
18810	6.25	PM	1	Unknown
39448	6.4	Unknown	0	Unknown
42086	6.57	UM	1	Kinase
128230	5.61	Unknown	0	Unknown
43300	5.18	ER	1	CT
18441	6.54	PM	2	Unknown
31111	7.67	PM	1	R
30214	8.61	PM	1	R
42219	5.74	PM	1	Unknown
64569	8.67	Unknown	0	Other
36982	5.67	Cyto	0	Kinase

66585	5.89	Unknown	0	Kinase
42358	8.19	Unknown	0	Kinase
23184	9.46	UM	1	Stress
27253	5.42	Cyto	0	Stress
21173	9.19	UM	2	Prot M
150687	8.22	PM	14	R
18097	6.29	Cyto	0	Stress
43491	6.18	UM	1	Sg
90220	5.61	Unknown	0	Unknown
58559	9.19	PM	10	T
50252	8.72	UM	4	Unknown
109872	8.92	PM	4	Other
16864	4.1	cyto	0	Sg

15344	5.1	ER	1	Other
27816	6.6	Cyto	0	Metabolism
26553	6.66	Cyto	0	Sg
47848	7.59	UM	1	Kinase
187157	5.75	Cyto	0	Unknown
66985	8.8	PM	9	T
17709	10.74	Ribosome	0	Ribosomal
19450	8.8	PM-associated	0	Metabolism
57891	7.64	PM	0	Kinase
24213	5.88	Vesicle-associated	0	CT
22010	7.57	PM	4	Unknown
21120	5.14	Unknown	0	Unknown
41221	5.17	PM	1	Other
42572	7.66	PM	4	Unknown
36665	5.97	Unknown	0	GTP
120802	5.25	PM	1	Stress
68488	6.15	PM	1	R
36147	9.93	PM	1	Stress

23389	4.81	Unknown	0	Unknown
35704	7.04	PM	1	CT
25452	4.64	Vesicle-associated	0	CT
114897	8.89	PM	1	Kinase
20239	8.81	UM	1	Other
66566	6	Unknown	0	Metabolism
14656	7.63	PM	F	GTP
81608	5.54	PM	GPI	Other
60266	5.3	Unknown	0	Unknown
66358	6.33	PM	1	CW
62646	6.46	Unknown	0	Unknown
21337	10.18	Peroxisome	1	Unknown
61723	8.07	PM	6	Unknown
40060	9.29	PM	2	Sg
28525	8.48	ER	3	Unknown
68838	9.24	PM	1	CW
52153	5.53	PM	1	CW
36058	7.63	Unknown	0	Unknown
69040	7.66	Cytoskeleton	0	CW
18317	6.49	Cyto	0	Stress
89229	9.81	UM	10	Unknown
84153	7.92	PM	3	Kinase
51670	5.27	Secreted	0	Prot M
49669	9.28	PM	11	T
17040	10.29	Ribosome	0	Ribosomal
55239	8.26	PM	10	Channel

58931	6.05	Cyto	0	Kinase
84229	8.31	PM	16	T
39017	6.81	Cyto	0	Unknown
75879	8.46	Unknown	0	Unknown
37333	6.33	cyto	0	Metabolism
34299	8.57	PM	4	CT
14520	9.57	Ribosome	0	Ribosomal
21693	9.38	PM	2	Unknown
43306	8.86	UM	0	R
83193	6.66	ER	1	Kinase
118890	6.42	PM	6	T
31693	8.33	PM	4	CT
24183	11.39	Ribosome	0	Ribosomal
16646	5.1	Unknown	0	Unknown
85463	5.37	Vesicle-associated	0	CT
19287	9	UM	2	Unknown
23921	9.47	Unknown	0	Sg
133114	5.89	PM	11	T
17899	5.8	Cyto	0	Stress
32347	8.66	PM	4	CT
31119	8.23	PM	4	CT
44583	8.72	PM	9	T
104856	6.53	PM	2	Kinase
34763	9.32	Unknown	0	Other
96848	5.9	Unknown	0	Sg
21804	7.98	PM	4	Unknown

43439	8.44	Unknown	0	Kinase
108286	6.9	PM	6	T
131274	5.71	Cyto	0	Prot M
67587	6.2	PM	1	Kinase
23739	9.45	PM	3	Unknown
55973	6.4	Cyto	0	Metabolism
22065	9.84	ER	3	Unknown
23829	10.31	Ribosome	0	Ribosomal
311701	4.95	Unknown	0	Unknown
86131	4.86	Vesicle-associated	0	CT
97007	6.07	PM	1	Kinase
117671	8.68	Unknown	0	Unknown
187323	5.75	cyto	0	Unknown
110686	5.94	PM	1	Kinase
29320	6.99	PM	1	Unknown
38941	8.74	Cyto	0	Other
58036	9.45	PM	11	T
17437	9.53	PM	P	Unknown
21838	9.2	PM	P	Sg
57256	6	PM	1	CW
63779	9.82	Unknown	0	Unknown
27250	5.57	PM	4	CT
68240	4.36	Cyto	0	Unknown
18812	4.41	PM	GPI	Unknown
68818	6.23	PM	1	R
44298	5.89	PM	1	Sg

138226	6.11	Cytoskeleton	0	CT
20590	6.02	PM	3	Unknown
37634	9.3	PM	4	Unknown
86338	8.43	PM	2	Kinase
18650	5.95	Unknown	0	Unknown
26222	9.88	PM	1	Stress
36964	5.7	UM	1	T
132103	6.01	Cytoskeleton	0	CT
12571	9.85	Cyto	0	Unknown
45560	7.13	Unknown	0	Unknown
37594	8.43	PM	2	Stress
67343	9.1	PM	12	Unknown
16826	7.68	Cyto	0	Unknown
83982	5.88	Cytoskeleton	0	CT
14346	9.26	Unknown	0	Unknown
86338	5.85	PM	2	Kinase
3375	8.45	Secreted	0	Stress
15666	4.48	Cyto	0	Unknown
22960	5.35	Unknown	0	St
142631	9.34	PM	11	T
39238	6.96	Cyto	0	Metabolism
27180	6.44	Proteasome	0	Prot M
38792	6.01	Cyto	0	Metabolism
43131	8.58	Unknown	0	Prot M
33763	8.95	UM	1	Unknown
57351	5.5	PM-associated	0	CW

38657	8.76	Unknown	0	Unknown
17796	10.03	Ribosome	0	Ribosomal
25574	10.06	Chloroplast	1	Stress
49224	5.32	PM	1	Metabolism
65613	5.81	PM	9	T
125729	6.18	PM	8	A
60989	9.31	PM	11	T
19191	10.72	cyto	0	Kinase
37651	8.9	PM	9	T
84199	5.75	Unknown	0	Unknown
24167	9.7	Mito	1	Prot M
17749	5.71	Polysome	0	Translation
39545	8.6	Unknown	0	Kinase
39464	8.41	Unknown	0	Kinase
59530	8.76	PM	12	T
17820	9.23	Ribosome	0	Ribosomal
51790	9.28	PM	12	T
19092	5.82	Chloroplast	0	Stress
19597	10.33	Ribosome	0	Ribosomal
33294	4.86	Ribosome	0	Ribosomal
17048	10.67	Ribosome	0	Ribosomal
49145	6.73	ER	0	Other
39455	7.16	Cyto	0	CW
72691	7.55	Unknown	0	Unknown
20079	8.84	PM	4	Unknown
29456	9.17	UM	B	Channel

31695	9.15	PM	4	Other
87660	9.62	Unknown	0	Unknown
65290	8.37	UM	1	Unknown
56564	5.94	PM	0	Kinase
36444	9.6	UM	6	Metabolism
52973	5.85	cyto	0	Metabolism
24096	10.99	Ribosome	0	Ribosomal
66775	7.5	PM	1	Metabolism
24194	6.19	Unknown	0	Prot M
23304	5.42	PM	GPI	Stress
16414	5.32	PM	1	Unknown
18316	10.72	Ribosome	0	Ribosomal
32381	9	PM	2	Stress
20285	6.04	PM	2	Unknown
91593	7.04	Mito	2	Prot M
12584	9.64	Ribosome	0	Ribosomal
131584	5.57	PM	0	Prot M
36216	8.72	UM	1	Unknown
55120	9.33	cyto	0	Kinase
44500	9.38	PM-associated	0	Unknown
57954	8.94	PM	11	T
68777	9.4	cyto	0	Unknown
43853	8.48	PM	9	T
69691	8.66	PM	2	Kinase
42514	4.49	PM	1	Unknown
40992	9.98	PM	6	Unknown

18633	9.1	Cyto	0	Unknown
21672	8.38	Cyto	0	Unknown
29930	7.25	PM	B	Channel
114755	6.1	PM	2	Kinase
24384	5.12	Unknown	0	Unknown
30237	10.38	PM	1	Stress
135379	6.37	Unknown	0	Unknown
68527	6.51	PM	1	Kinase
89233	5.63	Tonoplast	6	T
22342	7.74	PM	0	CT
22980	10.05	PM	2	Stress
58746	7.31	UM	1	Kinase
55033	8.71	PM	6	Channel
25043	8.98	PM	3	Unknown
33670	5.28	Cyto	0	Prot M
54742	7.34	ER	2	Prot M
27992	9.54	Unknown	0	Unknown
72125	5.49	Mito	1	GTP
30772	9.39	ER	7	R
25206	9.55	UM	2	Unknown
66990	8.07	Unknown	0	Unknown
67022	8.52	PM	12	T
19594	4.73	cyto	0	Unknown
38296	7.57	PM	6	Prot M
135842	5.79	Nucleus	0	Other
106146	5.42	PM	8	T

102906	8.87	UM	5	T
160436	5.4	Unknown	0	Sg
27615	5.53	Vesicle-associated	0	CT
51728	8.94	ER	8	Metabolism
64246	5.26	PM-associated	0	CT
33947	6.31	Unknown	0	Unknown
24243	10.11	Ribosome	0	Ribosomal
28303	9.53	Vesicle-associated	0	Metabolism
28665	6.36	Vesicle-associated	1	CT
54285	9.34	PM	1	Unknown
34843	8.96	UM	1	Metabolism
23517	9.41	Unknown	0	Unknown
73043	4.86	PM-associated	0	CT
57034	5.61	PM	1	Prot M
59955	6.22	PM	9	Prot M
52834	5.75	Cyto	0	CW
33027	7.85	UM	6	Unknown
15765	10.43	Ribosome	0	Ribosomal
23588	6.9	Vesicle-associated	0	CT
45302	8.53	Chloroplast	0	Metabolism
34777	4.9	Unknown	0	Unknown
5287	10.12	UM	1	Unknown
49612	4.75	PM	2	Prot M
20765	5.85	Unknown	0	Sg
20923	4.77	Unknown	0	Stress
63495	8.97	PM	11	T

51638	6.15	PM	8	T
83214	8.77	Chloroplast	0	Unknown
207541	4.72	UM	1	Unknown
64153	6.83	Unknown	0	Metabolism
32938	5.57	Unknown	0	Other
36095	4.47	PM	1	Unknown
18440	10.78	Ribosome	0	Ribosomal
40908	6.53	Unknown	0	Unknown
12710	10.65	Ribosome	0	Ribosomal
23885	10.47	Ribosome	0	Ribosomal
26693	9.21	UM	3	Unknown
17316	8.42	PM	2	Unknown
62768	7	Unknown	0	Kinase
10103	8.98	Unknown	0	Unknown
16007	10.87	Ribosome	0	Ribosomal
21992	11.41	Ribosome	0	Ribosomal
70115	7.62	PM	1	Kinase
60733	6.37	ER	1	Prot M
19024	6.28	Unknown	0	Stress
19178	7.71	PM	2	Other
27014	7.64	Vesicle-associated	1	CT
109524	5.91	PM	11	T
60005	6.08	Chloroplast	0	Other
103722	8.75	UM	5	T
56235	8.77	UM	1	Other
18128	6.16	PM	2	Other

58376	5.21	Unknown	0	Sg
44262	5.43	Cyto	0	Chaperone
28461	7.71	ER	1	R
25455	9.23	PM	1	Unknown
48244	8.86	UM	4	Unknown
30822	9.4	ER	5	R
91892	5.24	Unknown	0	Unknown
48104	7.64	PM	1	CW
44207	7.54	Unknown	0	Unknown
79763	9.29	UM	5	Channel
35984	6.21	PM-associated	0	Other
41281	7.77	PM	1	Metabolism
22330	9.47	PM	2	Unknown
97563	6.38	UM	1	Prot M
13660	8.8	PM	P	GTP
60683	6.16	Cyto	0	Chaperone
83416	9.13	PM	5	Channel
13394	7.46	Tonoplast	1	Unknown
66744	9.65	PM	9	T
81659	6.79	Unknown	0	Prot M
33066	9.59	Mito	0	T
70621	8.06	PM	7	Unknown
56294	9.02	PM	7	Metabolism
6927	12.02	Ribosome	0	Ribosomal
21884	10.02	UM	2	Unknown
73750	5.9	Unknown	0	Metabolism

27053	5.51	PM	1	Stress
31175	8.83	ER	1	Other
100359	6.51	PM	1	Kinase
39140	8.49	Cyto	0	Other
35318	6.02	cyto	0	Kinase
83216	8.79	PM	7	T
35818	9.85	PM	2	Metabolism
40878	8.19	ER	1	Metabolism
29423	9	Ribosome	0	Ribosomal
44478	4.84	Cyto	0	Metabolism
65761	5.53	Cyto	0	Metabolism
94796	6.75	Unknown	0	Unknown
111611	6.26	Unknown	0	Unknown
14013	5.77	UM	1	Unknown
63287	6.51	PM-associated	0	CW
53266	5.57	PM	1	CW
38710	4.77	PM-associated	0	Stress
32348	5.44	PM	0	Stress
14352	4.73	Cytoskeleton	0	St
28129	10.47	Chloroplast	0	Unknown
235449	5.26	Unknown	0	Unknown
94675	6.73	UM	1	Unknown
74462	8.95	PM	2	Unknown
129102	5.29	Nucleus	0	Unknown
213172	8.99	PM	9	CW
83103	6.47	ER	1	Metabolism

59824	8.97	PM	9	Channel
62728	9.11	Unknown	0	Unknown
83989	8.77	Unknown	0	Kinase
55731	8.83	PM	2	Kinase
47028	6.43	Cyto	0	Metabolism
20290	6.58	UM	2	Unknown
23185	9.71	PM	5	Unknown
45092	6.92	Chloroplast	0	Unknown
148773	6	cyto	0	Chaperone
52077	6.07	PM	1	Prot M
59439	5.8	PM	9	Prot M
92253	6.21	Unknown	0	Unknown
55576	6.02	Mito	0	T
16061	10.96	Unknown	0	Unknown
47187	5.29	Ribosome	0	Translation
22178	5.24	Cyto	0	Metabolism
31578	8.77	PM	6	T
71439	9.17	Unknown	0	Metabolism
30968	8.99	PM	6	Channel
39591	5.98	Cyto	0	Metabolism
87347	4.85	Cyto	0	Unknown
78094	6.2	Cyto	0	Prot M
59066	5.18	Nucleus	0	CT
92756	4.89	ER	0	Chaperone
43497	9.4	PM	7	T
109805	5.8	Cyto	0	Metabolism

24128	6.23	PM-associated	0	Metabolism
68010	6.32	PM-associated	0	Sg
24056	10.91	Ribosome	0	Ribosomal
45974	9.58	UM	1	CW
32573	5.29	Cyto	0	Kinase
96397	4.66	Nucleus	0	CT
151290	8.62	PM	13	T
110593	5.65	Cyto	0	Metabolism
101356	5.48	Unknown	0	Kinase
42666	5.79	Unknown	0	Other
16419	10.14	Ribosome	0	Ribosomal
108466	7.18	Nucleus	0	Other
20191	9.63	ER	2	CT
45757	9.24	UM	1	R
113938	9.39	Polysome	0	Translation
20994	9.94	Ribosome	0	Ribosomal
58347	8.21	Cyto	0	Metabolism
28269	10.65	Ribosome	0	Ribosomal
12420	11.43	Ribosome	0	Ribosomal
15766	10.57	Ribosome	0	Ribosomal
102413	6.17	PM	2	Kinase
33945	7.96	UM	2	Unknown
32227	8.26	Peroxisome	1	Stress
81530	6.61	PM	2	Kinase
100184	9.36	Nucleus	0	Other
15843	11.14	Ribosome	0	Ribosomal

51987	6.53	Cyto	0	CW
46596	9.5	Unknown	0	Prot M
53419	9.1	Chloroplast	4	Unknown
104877	5.39	PM	2	Kinase
48501	7.08	UM	1	R
30185	10.24	Ribosome	0	Ribosomal
64047	4.95	Cyto	0	Other
12180	10.39	Ribosome	0	Ribosomal
99826	8.34	Tonoplast	14	T
56787	7.25	PM	3	Unknown
92826	5.85	Tonoplast	6	A
17709	10.74	Ribosome	0	Ribosomal
57891	7.64	Unknown	0	Kinase
10724	11.93	Vesicle-associated	1	CT
62646	8.5	PM	7	T
171854	5.54	Unknown	0	Stress
44869	6.54	PM	10	Channel
61267	5.83	Cyto	0	Metabolism

Found by, the approach used to find the peptide (Both, both approaches; Gel, Gel-LC-MS/MS; 2DLC, 2D-LC-MS/M
r of transmembrane domains (GPI, GPI-anchored; F, farnesylated; P, prenylated)

Domain(s)
AdhC, ADH_zinc_N
Sucrose_synth, Glycos_transf_1
E1-E2_ATPase, Cation_ATPase_N, MgtA

E1-E2_ATPase, Cation_ATPase_N, MgtA

E1-E2_ATPase, MgtA, Hydrolase (incomplete)

E1-E2_ATPase, Cation_ATPase_N, MgtA

E1-E2_ATPase, Cation_ATPase_N, MgtA

E1-E2_ATPase, Cation_ATPase_N, MgtA

E1-E2_ATPase, Cation_ATPase_N, MgtA

Rab11_like

Rab11_like

Rab11_like

Rab11_like

Rab11_like

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beta_tubulin, COG5023

beta_tubulin, COG5023

beta_tubulin, COG5023

beta_tubulin, COG5023

14_3_3

14_3_3

14_3_3

14_3_3

14_3_3

14_3_3

Rab1_Ypt1

Rab1_Ypt1

Rab8_Rab10_Rab13_like

Rab8_Rab10_Rab13_like

Rab1_Ypt1, RAN

Rab8_Rab10_Rab13_like

B_lectin, PAN_AP_plant, S_TKc

S_TKc, EFh

Rab2

Rab2

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alpha_tubulin, COG5023

alpha_tubulin, COG5023

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S_TKc, SPS1

H_PPase

H_PPase

H_PPase

HSP70

HSP70

HSP70

HSP70

HSP70

HSP70

HSP70

TEF1

Hin1

Gp_dh_C

Gp_dh_N, Gp_dh_C, GapA

MIP

TyrKc

TyrKc

S_TKc, DUF26

DUF26, TyrKc (incomplete)

S_TKc, DUF26

TyrKc, DUF26

LRR_RI

DUF26, TyrKc (incomplete)

S_TKc

S_TKc, DUF26

S_TKc, DUF26

S_TKc, DUF26

S_TKc, DUF26

DUF26, S_TKc (incomplete)

Hin1, S_TKc (incomplete)

Sugar_tr

Band_7_4

Band_7_4

Band_7_4

DUF946

Sugar_tr (incomplete)

Glyco_hydro_17

LysM

Sugar_tr

Sugar_tr

ABC_PDR_domain1, ABC_PDR_domain2, ABC_PstB_phosphate, COG842, CcmA

ABC_PDR_domain1, ABC_PDR_domain2, COG0842, ABC_putative_ATPase, ABCC_cytochrome_bd

ABC_PDR_domain1, ABC_PDR_domain2, COG0842, ABC_TM1139_LivF_branched, ABC_UvrA_I

ABC_PDR_domain2, ABCG_White, ABC_tran, ABC_BcrA_bacitracin

ABC_PDR_domain1, ABC_PDR_domain2, ABC_PstB_phosphate, COG842, CcmA

ABCG_White, COG0842, ABC_PDR_domain2, SalX, ABC_Class2

ABC_PDR_domain2/COG0842/ABCC_Glucan_exporter_like/ABC_tran

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB, ABC_UvrA_I

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB

Lectin_legB, Lectin_legB, S_TKc

Lectin_legB, S_TKc

Lectin_legB, S_TKc

Lectin_legB, Lectin_legA, TyrKc

Lectin_legB, Lectin_legA, S_TKc

Lectin_legB, Lectin_legA, S_TKc

Rab7

Rab7

S_TKc

S_TKc

TyrKc

TyrKc

TyrKc

DYNc, PH_oxysterol_bp, GED, Dynamin _M (incomplete)

Sec8_exocyst

SynN, t_SNARE

CDC48_N, SpoVK

Cyt-b5

Glucan_synthase

Sugar_tr

RspG

-

S_TKc (incomplete)

MetK

Sec15

COG4886 (incomplete), S_TKc (incomplete)

PTR2

Ribosomal_L18e

PDI_a_ERp38, ERp29c

Cu-oxidase

G-alpha

-

LMBR1 (incomplete)

Arf1_5_like

Rab6

SH3

Glucan_synthase, PPR

S_TKc, COG4886 (incomplete)

Sar1

S_TKc

EFh, PS_Dcarbxylase

HSP70 (split)

Ribophorin_II

-

C2, COG5038 (incomplete)

C2, COG5038 (incomplete)

Glyco_hydro_17

Glucan_synthase
TyrKc
DUF599
-
COG4886 (incomplete), S_TKc (incomplete)
COG5594, DUF221 (2 incomplete and overlapping)
DUF26, S_TKc (incomplete)
GBP, RHD3

DUF26, TyrKc

DUF26, TyrKc

MgtA

LRR_RI, S_TKc (incomplete)

S_TKc, COG4886 (incomplete)

S_TKc, COG4886 (incomplete)

HATPase_c, HSP90

Cation_ATPase_N, E1-E2_ATPase, Cation_ATPase_C, MgtA, Hydrolase (incomplete)

E1-E2_ATPase, Cation_ATPase_C, Hydrolase, MgtA

Cation_ATPase_N, E1-E2_ATPase, Cation_ATPase_C, MgtA, Hydrolase (incomplete)

-

S_TKc

ABC_membrane, ACB_MTABC3_MDL1_MDL_2, ABC_Rad50, MdlB

S_TKc

S_TKc, COG4886 (incomplete)

S_TKc, COG4886 (incomplete)

LRR_RI, TyrK, COG4886 (incomplete)

t_SNARE

AAI_LTSS

Cu_bind_like

TyrKc

C2_2, PLDc

ABCG_EPDR, ABC_trans

ABCG_White, CcmA

NB-ARC

Glyco_hydro_17

Phosphoglycerate_kinase

TyrKc, COG4886 (incomplete)

TyrKc

DREPP (incomplete)

EF2, aeEF2_snRNP_like_IV, FusA

GDPD

OPT

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB

DAGK_cat (incomplete), DAGKa (incomplete)

-

Glyco_hydro_1

PI4Ka, PI4Kc, PI3Kc

COG4886 (incomplete), S_TKc (incomplete)

Dynamin_N, Dynamin_M, GED

Transposase_11

CHS_like

Sec24-like, Sec23_helical

Glyco_transf_28, COG1819

DUF588

Calreticulin

-

TyrKc (incomplete)

FAS1

LRR_RI, S_TKc

S_TKc, COG4886 (incomplete)

S_TKc, LRR_RI (incomplete), COG4886 (incomplete)

C2, COG5038

Flaxodoxin_1, FAD_binding_1, NAD_binding_1, CysJ

DUF580

C2, Pex24p (incomplete), COG5038 (incomplete)

TyrKc, TPR, SPS1

Exo70

USP_like

DYNc, Dynamin_M

DYNc, Dynamin_M/GED

-

Aa_trans

LRR_RI, TyrKc

LRR_RI, COG4886 (incomplete), S_TKc (incomplete)

Glyco_hydro_17

Glyco_hydro_28

Calreticulin

CBM_4_9, Glyco_10

DUF1218

B_lectin, S_locus_glycop, PAN_AP_plant, TyrKc (incomplete)

PP2Cc

vWA_interalpha_trypsin_inhibitor (incomplete)

Glyco_hydro_17, UBCc

EFh, FRQ1

AAI_LTSS

Ribosomal_L10

-

FAS1

UgpQ, GDPD

DUF568, B561

TyrKc

E1-E2_ATPase, Cation_ATPase_C, MgtA

LysM

DUF221

AAI_LTSS

-

LysM

CDC48_N, AAA, SpoVK (incomplete)

Sugar_tr

COG4886

LysM, TyrKc (incomplete)

TyrKc, COG4886 (incomplete)

Adaptin_N, Alpha_adaptinC2

S_TKc, TPR

NB-ARC, COG4886 (incomplete)

TPR, ZnF_AA

Adaptin_N

-

Glucan_synthase

CopZ, E1-E2_ATPase, Hydrolase, ZntA

WD40 (incomplete), COPI_C (incomplete)

Sec14, CRAL_TRIO_N

Mito_carr

S_TKc (incomplete)

CLH, Clathrin

LRR_RI, S_TKc

Hin1

Ubox, ARM

TyrKc

KefB, Na_H_Antiporter_C

CIMS_N_terminal_like, CIMS_C_terminal_like

COG2133

S_TKc, COG4886 (incomplete)

LysM, TyrK (incomplete)

ACTIN

ACTIN

Ubiquitin

cyclophilin_ABH_like

G-alpha

Ammonium_transp

Vps52 (incomplete)

MelB (incomplete)

Smc

MhpC, PldB

Cu_bind_like

B_lectin, PAN_AP_plant, S_TKc (incomplete)

CHS_like

SEC14, CRAL_TRIO_N (incomplete)

SEC14, CRAL_TRIO_N (incomplete)

RpsK

LRR_RI (incomplete), S_TKc (incomplete)

SNC1 (incomplete), Synaptobrevin (incomplete)

B_lectin, PAN_AP_plant, S_TKc

PotE, AA_permease

Cons_hypoth95 (incomplete)

S_TKc

-

KefB

TyrKc, COG4886 (incomplete)

Tetraspannin (incomplete)

-

TyrKc (incomplete)

COG1520

nucleoside_deaminase

Rhomoid, GlpG (incomplete)

S_TKc, COG4886 (incomplete)

TyrKc, COG4886 (incomplete)

ABC_subfamily_A, ABC_sbcCD

S_TKc

TyrKc (incomplete)

S_TKc

Sec10

zf-Sec23, Sec23-like, Sec23_helical, Gelsolin, SEC23

Glyco_hydro_17

enolase, Eno

Ribosomal_S8e

C2_2, PLDc

Cellulose_synt

UDPGP

Kup, K_trans

XylA

ascorbate_peroxidase

Phosphoesterase

SAM1

C2
PDI_a_ERp38, ERp29c
-
TyrKc, TPR
Cellulose_synt
PP2Cc (incomplete)
S_TKc
S_TKc
SEC21
p450
GH3
CorA

Glucan_synthase
TyrKc (2 incomplete and overlapping)
RPS4A
ARM
TyrKc, TPR
MS_channel
COG2133
Cellulose_synth Cellulose_synth
PTR2
Porin_3
DPCK

40S_S3_KH, Ribosomal_S3_C

Asp

Adap_comp_sub

Mito_carrier

S_TKc

Sterol_desat

TyrKc

WD40

DUF21/CorC (incomplete), TlyC (incomplete)

WD40, Coatomer_WDAD, COPI_C

-

LRR_RI, S_TKc, COG4886 (incomplete)

DltE

S_TKc, COG4886 (incomplete)

p450

-

Sulfate_transp, STAS, SUL1

STT3, COG1287

Pyruvate_Kinase

-

Porin_3

ANTH_AP180_CALM

TPR

DDOST_48kD

C2, COG5038 (incomplete)
PslC
DUF26, S_TKc
Motile_Sperm
DnaJ, PDI_a_family
Kup, K_trans
Ribosomal_L7Ae
Ribosomal_L4
p450
Lipase_3, Lipase3_N
-

S_TKc (incomplete)

PotE, AA_permease (incomplete)

Ribosomal_L3

-

S_TKc (incomplete)

CDC48_N, AAA, ABC_Class2, SpoVK

Cof, MgtA (split)

S_TKc (incomplete)

---

vWA_interalpha_trypsin_inhibitor

WrbA (incomplete)

---

p450

C2_1, C2

RING, S_TKc, ANK

Pyruvate_kinase
-
PLCc (split)
Ribosomal_L2, Ribosomal_L2_C
Cation_ATPase_N, E1-E2_ATPase, Hydrolase, Cation_ATPase_C
Ribosomal_S19e
EFh
SNC1 (incomplete), Synaptobrevin (incomplete)
Ded_cyto
Ctr (incomplete)
S_TKc, LRR_RI (incomplete)

Annexin

HECTc, ARM (incomplete)

DUF588

DUF594

Ribosomal_S15p_S13e

Ribosomal_S15p_S13e

EFh, FRQ1

WrbA

WrbA

Metallophos

Blc

LRR_RI, S_TKc, COG4886

AAI_LTSS

Esterase_lipase (incomplete), Aes (incomplete)

S_TKc

-

WD40 (incomplete)

-

Sec20, COG5325 (incomplete)

COG5325 (incomplete)

FAS1

MACPF

TyrKc

LysM, TyrKc
TyrKc
Hin1
ascorbate_peroxidase
SPC25
Patched (split)
USP_like
WD40
Ubox, ARM
Aa_trans
COG5273
EFh, FRQ1, Ferric_reduct
EFh, FRQ1

Cyt-b5
TIM
PP2Cc
S_TKc
LRR_RI (incomplete)
Auxin_eff (split)
Ribosomal_S13
GSH_Peroxidase
S_TKc, Efh, SPS1, FRQ1
Rab18
DUF1218
-
FAS1
COG5273 (incomplete)
WD40
LRR_RI
TyrKc, COG4886 (incomplete)
Hin1

COG4886 (incomplete)

SynN, t_SNARE

SNF-7

S_TKc, COG4886 (incomplete)

AAI_LTSS

Amidase

NTGP5

UgpQ, GDPD

C2, vWA_copine_like

Cu-oxidase, SufI

COG4886 (incomplete)

Mpv17_PMP22

Tweety

CDC50

Reticulon

Glyco_hydro_9

Glyco_hydro_28

S_TKc (incomplete)

Dynamin_M, GED, DYNc

USP_like

Nodulin-like

S_TKc (incomplete)

Peptidase_C1A, GRAN

Aa_trans

RplW

Aa_trans

S_TKc, EFh

OPT

-

TPR

UbiE (incomplete)

SCAMP

Ribosomal_L22e

-

S_TKc (incomplete)

S_TKc, COG4886 (incomplete)

MgtA

SCAMP

Ribosomal_L19e_E

-

SEC23

DUF1077

Rop_like

MgtA

alpha-crystallin-Hsps

SCAMP

SCAMP

Aa_trans

TyrKc, COG4886 (incomplete)

Qor, COG2130

PP2Ac

DUF588 (incomplete)

TyrKc

ABC_subfamily_A, ABC_sbcCD

MATH, peptidase_C19C, COG5077

DUF26, S_TKc

-

Transaldolase_like

Reticulon

Ribosomal_L13

Smc

Sec6

TyrKc

NB-ARC

LRR_RI (incomplete)

LRR_RI, S_TKc

-

Mo25

Sugar_tr

HMA

Rop_like

Glyco_hydro_9

IQ

SCAMP

-

-

TyrKc

PLCXc (incomplete)

KISc_C_terminal, KIP1

-

DUF1218

TyrKc

C2

Hin1

Zip (incomplete)

KISc_CENP_E, UPF0242 (incomplete)

-

-

RING

Nodulin-like

PP2Cc (incomplete)

ARM, KISc (incomplete)

Auxin_inducible (incomplete)

TyrKc

secretory_peroxidase

-

-

ABC_membrane, ABC_MTABC3_MDL1_MDL2, MdlB

FBP_aldolase_I_a

proteasome_alpha_type_4

DUF294 (incomplete), Aes (incomplete)

COG0400

DUF1191

Glyco_hydro_17

Aes (incomplete)

Ribosomal_L1 (incomplete)

Hin1

Alpha-amylase

PTR2

MgtA, COG4087 (incomplete), OPT (incomplete)

xan_ur_permease

-

Zip

Smc (incomplete)

cyclophilin_ABH_like

Efp

S_TKc

S_TKc

Sugar_tr

Ribosomal_L11

AraJ

USP_like

Ribosomal_L22

Ribosomal_S2

Ribosomal_S9

p450

WcaG, adh_short (incomplete)

2-Hacid_dh_C

DUF1218 (incomplete)

Porin_3

Tetraspannin

NB-ARC (incomplete)

FAD_binding_4 (incomplete)

S_TKc, TPR

Steroid_dh

NAD_binding, 6PGD, Gnd

Ribosomal_L13e

PutA

Peptidase_S26

Dirigent

PG-PI_TP

Ribosomal_L24e

Hin1

Cu_bind_like

S_TKc, COG4934 (incomplete)

RPL30

-

C2

TyrKc

-

Aa_trans

DUF668

Auxin_eff (split)

S_TKc

DUF642

DoH, B561

WD40 (incomplete)

WD40 (incomplete)

Porin_3

LRR_RI, S_TKc

DUF247 (incomplete)

Hin1

DENN, WD40

S_TKc (incomplete)

V_ATPase_I

Rab11_like

HR-lesion

TyrKc

-

Bap31 (incomplete)

COG0388

PDI_a_family

FAS1

Miro1, Miro2

ER_lumen_recept

Bap31 (incomplete)

-

PTR2

EFh

Peptidase_A22B

TIP120

HMA, CopZ, E1-E2_ATPase, Hydrolase, ZntA

ABC_subfamily_A, CcmA

Sec7, COG5307 (incomplete)

Sec1 (incomplete)

ERG4_ERG24

C2, vWA_copine_like

RING

Ribosomal_L6e, RPL14A, Ribosomal_L6e_N (incomplete)

DltE

Motile_Sperm

RING

adh_short (incomplete)

COG2945

Sec6

Asp

Peptidase_A22B

UDPG_MGDP_dh, UDPG_MGDP_dh_C, Ugd

DUF1295

Ribosomal_S23

Rab18

SerC, Aminotran_5

LEA_2, COG5608

-

PDI_a_family, COG3118

PP2Cc

PLAT_plant_stress

Sugar_tr (split)

AraJ

DAGK_cat (incomplete)/LCB5 (incomplete)

Smc (incomplete)

2-Hacid_dh_C/ACT/AdoHcyase (incomplete)

S1-P1_nuclease

ACBP, ANK

Ribosomal_L24e

-

Ribosomal_L35Ae

Ribosomal_L13

PQ-loop

-

S_TKc, Efh, FRQ1

COG3268 (incomplete)

L15, Rp10

Ribosomal_L18e, RPL18A

S_TKc, COG4886 (incomplete)

Peptidase_M28

CSD, zf-CCHC, ZnF_C2HC

Cu_bind_like

Motile_Sperm

AA_permease, PotE

GATase1_GMP_Synthase, GMP_synthase_C, GuaA

ABC_subfamily_A, ABC_Rad50

p450

Cu_bind_like

PP2Cc

DnaJ, CbpA (incomplete)

SR_beta

DUF568 (incomplete)

COG5273 (incomplete)

ER_lumen_recept

-

Glyco_hydro_17

COPI_C (incomplete)

CAP_ED

Annexin

Esterase_lipase (incomplete), Aes (incomplete)

-

tRNA-synt_1, IleRS_core (split)

NTGP5

TCP1_eta, GroL

CAP_ED

-

Auxin_eff (split)

Cullin

Mito_carr

UPF0118 (incomplete)

ARE1 (incomplete)

Ribosomal_S30

DUF841

AMP-binding, FAA1

Hin1

FAD_binding_6, NAD_binding_1

TyrKc, LRR_RI (incomplete)

Ndh

TyrKc

CAP_ED

COG0300, DltE, Short-chain dehydrogenases of various substrate specificities [General function prediction only].

UbiE

AAI_LTSS, Ribosomal_S28e (incomplete)

enolase, Eno

TPP_enzyme_N, TPP_enzyme_M, TPP_PDC_TPDC, COG3961

-

-

AAI_LTSS

Glyco_hydro_1

Glyco_hydro_17

THN

Band_7_4

PROF

DUF862

ARM, C2, SRP1 (incomplete)

TyrKc (incomplete)

-

EH, Smc (incomplete)

AMP-binding, FAA1

COG2252

UPF0089, DUF1298

TyrKc

COG4886 (incomplete), Pkinase (incomplete)

SHMT, GcvP (incomplete)

RING

-

-

HSP70

Peptidase_S10

Peptidase_A22B

Sms (incomplete)

ATP-synt_ab_N, F1_ATPase_alpha, ATP-syn_ab_C, AtpA

Ribosomal_L10e (incomplete)

DEADc, HELICc

TPP_PDC_TPDC

MIP

Sterol_desat

MIP

UBiE (incomplete)

LRR_RI, TolB (incomplete)

AAK_P5CS_ProBA, PutA, ProA

IBB ,ARM, SRP1

HAPTase_c, HSP90, HtpG

Sugar_tr

PEPcase

GST_N_Phi, GST_C_Phi, Gst

PLCc (split), C2_2

Ribosomal_L13e

WcaG

adenosine_kinase

IBN_N, ARM, KAP95

ABC_PDR_domain1, ABC_PDR_domain2, COG0842, ABC_NatA_sodium_exporter, ABC_UvrA_II

PEPcase

TyrKc, COG4886 (incomplete)

OYE_like_FMN

Ribosomal_S17e

SNc, TUDOR, Snase (incomplete)

TRAP_beta

TyrKc (incomplete)

PINT (incomplete), SbcC (incomplete)

Ribosomal_L5, Ribosomal_L5_C

PFK

Ribosomal_S6e

Ribosomal_L36e

RPS24A

S_TKc

-

ascorbate_peroxidase

S_TKc, LRR_RI (incomplete)

Sigma70_r2, Sigma70_r3, Sigma70_r4, UPF0121 (incomplete)

L15, Rpl0

Ugd

Asp

RINGv, SSM4 (incomplete)

S_TKc

TyrKc

Ribosomal_S5, Ribosomal_S5_C, RpsE

TryX_like_TryX_NRX, DC1

Ribosomal_S25 (incomplete)

H_Ppase

DUF21, CorC (incomplete)

V_ATPase_I

Ribosomal_S13

S_TKc, EFh, SPS1, FRQ1

Sec61_beta

Auxin_eff (split)

NB-ARC

-

RPE65

/S); Elution start, start time of peptide elution; # peptides,