Supplemental Table 1. Identified proteins differentially expressed between non-allergic and allergic individuals, either in or out of pollen season.

Spotname	SampleID	Observed Regulation	Accession #	Protein Name	Protein pI	Protein MW [kDa]	Sequence Coverage [%]	Mascot Score PMF	ProFound Zvalue PMF	# Peptides Identified	Peptides Identified	Measured m/z [Da]	z	Δ m/z [ppm]	Mascot Score MS/MS	Sequest Metascore MS/MS	ProteinSolver Expectation MS/MS
	051-1	Group B/A on season: 0.65					49.0	109.0	1.9	15	EDPTVSALLTSEK	1389.66	1+	-38.5			
											EDYAGLKEEFR	1356.59	1+	-35.8	84.8	6.6	99.2
											EEFRK	708.34	1+	-44.3			
											FCPFAER	869.40	1+	-2.6			
											FCPFAER + Propionamide(C)	940.42	1+	-11.8			
											HEVININLK	1079.60	1+	-20.6			
											KLLPDDPYEK	1217.60	1+	-30.6			
											LLPDDPYEK	1089.52	1+	-19.6			
											LNECVDHTPK + Propionamide(C)	1226.54	1+	-32.7			
											LWMAAMK	850.44	1+	5.9			
											MILELFSK	980.53	1+	-14.1			
											MILELFSK + Oxidation(M)	996.54	1+	-5.5			
											NKPEWFFK	1095.54	1+	-22.0	39.2	7.1	
											SQNKEDYAGLK	1252.57	1+	-34.5			
											VPSLVGSFIR	1074.60	1+	-26.4	84.8	14.0	97.5
959140			gi|55957303	Glutathione S-transferase omega 1 [Homo sapiens]	7.6	23.3											
	051-16	Group B/A on season: 0.65					46.0	109.0	0.3	15	EDPTVSALLTSEK	1389.71	1+	-0.9			
											EDYAGLKEEFR	1356.64	1+	0.5	86.6	11.2	99.3
											EDYAGLKEEFRK	1484.74	1+	-0.8	67.6		
											FCPFAER	869.40	1+	8.1			
											FCPFAER + Propionamide(C)	940.44	1+	8.9			
											GIRHEVININLK	1405.82	1+	-5.0			
											HEVININLK	1079.64	1+	16.0			
											LLPDDPYEK	1089.57	1+	18.3			
											LNECVDHTPK + Propionamide(C)	1226.59	1+	3.5			
											MILELFSK	980.56	1+	14.8			
											MILELFSK + Oxidation(M)	996.56	1+	20.9			
											NKPEWFFK	1095.58	1+	12.5	39.7	8.1	
											SQNKEDYAGLK	1252.62	1+	3.9			
											SQNKEDYAGLKEEFR	1813.87	1+	-2.6	138.6		
											VPSLVGSFIR	1074.63	1+	4.0	86.7	14.2	97.1

958889	051-2	Group B/A on season: 0.66	gi|4502599	Carbonyl reductase 1 [Homo sapiens]	8.9	30.4	80.1	178.0	2.3	21	ALKSCSPELQQK	1331.72	1+	19.4			
											ALRDFLR	890.48	1+	-40.2			
											DVCTELLPLIKPQGR	1681.89	1+	-22.6			
											DVCTELLPLIKPQGR + Propionamide(C)	1752.93	1+	-20.2	100.5	9.2	97.9
											EGWPSSAYGVTK	1281.58	1+	-23.0			
											EYGGLDVLVNNAGIAFK	1779.89	1+	-18.4			
											FHQLDIDDLQSIR	1599.77	1+	-23.5	106.4	8.6	99.3
											GIGLAIVR	798.54	1+	26.6			
											GQAAVQQLQAEGLSPR	1652.83	1+	-22.3	111.4	19.2	99.9
											ILLNACCPGWVR + Propionamide(C)	1415.69	1+	-28.4			
											ILLNACCPGWVR + 2x Propionamide(C)	1486.73	1+	-27.1	59.0		22.9
											KLSEQR	760.46	1+	34.6			
											LFSGDVVLTAR	1177.63	1+	-20.9	77.4	5.9	67.5
											LSEQRK	760.46	1+	34.6			
											MSSGIHVALVTGGNK + Oxidation(M)	1486.73	1+	-28.7			
											RVEQW	717.35	1+	-29.7			
											SETITEEELVGLMNK	1692.80	1+	-20.9			
											SPEEGAETPVYLALLPPDAEGPHGQFVSEK	3164.70	1+	49.3			
											VADPTPFHIQAEVTMK	1783.88	1+	-15.9			
											VVNVSSIMSVR	1190.64	1+	-16.1	53.0	5.4	34.3
											VVNVSSIMSVR + Oxidation(M)	1206.62	1+	-23.2			
	051-18		gi|56554353	A chain A, structure of human Decr ternary complex	9.6	32.3	42.1	95.6		12	EMIGRIPCGR + Propionamide(C) + Oxidation(M)	1218.65	1+	30.5			
											EQWDTIEELIR	1431.69	1+	-15.1			
											FDGGEEVLISGEFNDLR	1896.89	1+	-5.7			
											FDGGEEVLISGEFNDLRK	2024.98	1+	-8.4			
											FFSPLQK	866.49	1+	14.4			
											FNVIQPGPIK	1112.64	1+	-6.8			
											GMTTLLSSLGAQCVIASR + Propionamide(C)	1878.96	1+	-6.7			
											GMTTLLSSLGAQCVIASRK + Oxidation(M)	1951.97	1+	-32.2			
											NTEALQSK	890.48	1+	19.7			
											VAFITGGGTGLGK	1177.64	1+	-16.5			
											VAGHPNIVINNAAGNFISPTER	2291.20	1+	6.8			
											VHAIQCDVR + Propionamide(C)	1111.56	1+	-5.4			

404412	051-15	Group B/A off season: 0.58	gi|4504011	Glutamate-cysteine ligase regulatory protein [Homo sapiens]	5.7	30.7	33.9	60.3		8	CPSTHSEELHDCIQK + 2xPropionamide(C)	1868.83	1+	-0.2			
											EFPDVLECTVSHAVEK + Propionamide(C)	1873.90	1+	1.6			
											INPDER	743.37	1+	3.4			
											KCPSTHSEELHDCIQK + Propionamide(C)	1925.98	1+	49.6			
											LFIVESNSSSSTR	1426.72	1+	1.3	70.3	4.2	98.9
											QFDIQLLTHNDPK	1568.80	1+	-1.9			
											TLHLQTGNLLNWGR	1622.87	1+	-3.6	79.1	8.0	100.0
											TLNEWSSQINPDLVR	1771.90	1+	-0.8	113.8	13.8	98.8
404412	051-17			not identified													
404520	051-4	Group B/A off season: 0.53	gi|22267436	Nipsnap homolog 3A [Homo sapiens]	9.4	28.5	59.1	134.0	1.3	11	AVHAHVNLGYTK	1309.68	1+	-19.3			
											DKEWQEQFLIPNLALIDK	2200.16	1+	-2.9			
											ESVNYLVSQQNMLLIPTSFSPLK	2608.39	1+	8.6			
											LVGVFHTEYGALNR	1575.81	1+	-10.3	106.4	14.2	99.8
											MNEFLENFEK	1300.57	1+	-14.8	46.6	5.9	4.1
											MNTVFHIWK	1175.59	1+	-6.9			
											QESEITYLVPWCK + Propionamide(C)	1666.79	1+	-11.7			
											QYDGIFYEFR	1337.60	1+	-11.4	62.7	6.6	98.2
											TAHSELVGYWSVEFGGR	1894.90	1+	-5.3	132.5	11.5	100.0
											VHVLWWNESADSR	1598.76	1+	-8.6	80.4	9.5	98.6
											YDNFAHR	922.42	1+	-0.2			
	051-9		gi|22267436	Nipsnap homolog 3A [Homo sapiens]	9.4	28.5	21.9			4	LVGVFHTEYGALNR	1575.81	1+	-8.7	95.8	9.3	99.8
											QYDGIFYEFR	1337.60	1+	-9.5	64.7	6.4	98.2
											TAHSELVGYWSVEFGGR	1894.90	1+	-2.9	97.1	7.9	100.0
											VHVLWWNESADSR	1598.76	1+	-7.8	69.1	6.8	98.4
383960	051-3	Group B/A off season: 0.48	gi|55859708	Talin 1 [Homo sapiens]	6.0	30.2	37.9	46.7		9	ACEFAGFQCQIQFGPHNEQK + 2x Propionamide(C)	2424.10	1+	5.8			
											DDILNGSHPVSFDK	1543.73	1+	-9.8			
											DKTLLR	745.45	1+	-3.6			
											DPVQLNLLYVQAR	1528.83	1+	-9.8	101.1	11.6	95.9
											EQGVEEHETLLLR	1552.78	1+	-8.1	90.7	7.5	97.3
											FFYSDQNVDSR	1377.59	1+	-10.5	99.5	5.8	89.3
											KFFYSDQNVDSR	1505.70	1+	-3.9			
											LHTDDELNWLDHGR	1720.79	1+	-6.7	79.0	6.9	98.9
											MVALSLK + Oxidation(M)	777.47	1+	23.2			
	051-10		gi|55859708	Talin 1 [Homo sapiens]	6.0	30.2	43.7	57.4		10	ACEFAGFQCQIQFGPHNEQK + 2x Propionamide(C)	2424.11	1+	7.9			
											DDILNGSHPVSFDK	1543.74	1+	1.3			
											DPVQLNLLYVQAR	1528.85	1+	2.7	104.0	9.6	95.2
											EQGVEEHETLLLR	1552.80	1+	3.5	66.7	7.2	88.9
											FFYSDQNVDSR	1377.60	1+	-2.2	89.5	5.9	89.0
											KFFYSDQNVDSR	1505.72	1+	13.3			
											LHTDDELNWLDHGR	1720.82	1+	6.6	84.3	6.4	99.7
											MLDGTVK	763.42	1+	27.0			
											TLREQGVEEHETLLLR	1922.94	1+	-47.5			
											TMQFEPSTMVYDACRIIR	2160.94	1+	-40.0			

404641	051-8	Group B/A off	not identified
	051-5	season: 0.64	not identified
405306	051-6	Group B/A off	not identified
	051-7	season: 0.58	not identified
405097	051-13	Group B/A off	not identified
	051-14	season: 0.63	not identified
1019872	051-11	$Ratio_{off/on}$ season Group B/A: 1.42	not identified
	051-12		not identified