

		10	20	30	40	50	60
AtYSL1	Sequence	-----	-----	-----	-----	-----	-----
AtYSL2	Sequence	-----	-----	-----	-----	-----	-----
AtYSL3	Sequence	-----	-----	-----	-----	-----	-----
AtYSL4	Sequence	-----	-----	-----	-----	-----	-----
AtYSL5	Sequence	-----	-----	-----	-----	-----	-----
AtYSL6	Sequence	-----	-----	-----	-----	-----	-----
AtYSL7	Sequence	-----	-----	-----	-----	-----	-----
AtYSL8	Sequence	-----	-----	-----	-----	-----	-----
OsYSL2	Sequence	-----	-----	-----	-----	-----	-----
OsYSL6	Sequence	-----	-----	-----	-----	-----	-----
OsYSL9	Sequence	MPPLGMPWHH	HACMFLLAAS	LLTYGRRSRV	LLSHRGATIAL	AHAAQVVVVD	VAVSSRRRPV
OsYSL15	Sequence	-----	-----	-----	-----	-----	-----
OsYSL16	Sequence	-----	-----	-----	-----	-----	-----
OsYSL18	Sequence	-----	-----	-----	-----	-----	-----
PtYSL1	Sequence	-----	-----	-----	-----	-----	-----
PtYSL2	Sequence	-----	-----	-----	-----	-----	-----
PtYSL3	Sequence	-----	-----	-----	-----	-----	-----
PtYSL4	Sequence	-----	-----	-----	-----	-----	-----
PtYSL5	Sequence	-----	-----	-----	-----	-----	-----
PtYSL6	Sequence	-----	-----	-----	-----	-----	-----

		70	80	90	100	110	120
AtYSL1	Sequence	-----	-----	-----	-----	-----	-----
AtYSL2	Sequence	-----	-----	-----	-----	-----	-----
AtYSL3	Sequence	-----	-----	-----	-----	-----	-----
AtYSL4	Sequence	-----	-----	-----	-----	-----	-----
AtYSL5	Sequence	-----	-----	-----	-----	-----	-----
AtYSL6	Sequence	-----	-----	-----	-----	-----	-----
AtYSL7	Sequence	-----	-----	-----	-----	-----	-----
AtYSL8	Sequence	-----	-----	-----	-----	-----	-----
OsYSL2	Sequence	-----	-----	-----	-----	-----	-----
OsYSL6	Sequence	-----	-----	-----	-----	-----	-----
OsYSL9	Sequence	ASSFTVVLSE	DEAFLTASPS	RSFSLPSFTG	VTYNCSIQGL	LVCLRVSGGT	LPVFLARNVN
OsYSL15	Sequence	-----	-----	-----	-----	-----	-----
OsYSL16	Sequence	-----	-----	-----	-----	-----	-----
OsYSL18	Sequence	-----	-----	-----	-----	-----	-----
PtYSL1	Sequence	-----	-----	-----	-----	-----	-----
PtYSL2	Sequence	-----	-----	-----	-----	-----	-----
PtYSL3	Sequence	-----	-----	-----	-----	-----	-----
PtYSL4	Sequence	-----	-----	-----	-----	-----	-----
PtYSL5	Sequence	-----	-----	-----	-----	-----	-----
PtYSL6	Sequence	-----	-----	-----	-----	-----	-----

		130	140	150	160	170	180
AtYSL1	Sequence	-----	-----	-----	MEIEQRR	IMKREGEEEE	DNNQLSLQEE
AtYSL2	Sequence	-----	-----	-----	-----M	ENERVE-----	REQS
AtYSL3	Sequence	-----	-----	-----MR	SMMMEREGRN	EIEREV-----	IDDL
AtYSL4	Sequence	-----	-----	-----	METEIPR	STEISETLLL	PETN-----
AtYSL5	Sequence	-----	MRKGVLPDR	DRQIVEHELQ	ETGFSPETEK	VKNKNFEED	EEED
AtYSL6	Sequence	-----	-----	-----	MGTEIPR	SAEISEALLP	PESE-----
AtYSL7	Sequence	-----	-----	-----	MEVERSKKD	DDLNNGSKSN	EEEEI
AtYSL8	Sequence	-----	-----	-----	-----	-----	-----
OsYSL2	Sequence	-----	-----	-----M	EAA-----	APTEIERCDAG	DVES
OsYSL6	Sequence	-----	-----	-----	MG-SVAD	DAEITGPLLA	AAAGG
OsYSL9	Sequence	GSDFLLWSKS	KRESRLIQE	RRRKRQPGPP	RLELVVAHPR	EEEMAGLDGG	GDAE
OsYSL15	Sequence	-----	-----	-----M	EHADADTRV	APTEIGSLHDE	DAEA
OsYSL16	Sequence	-----	-----	-----MD	RHALGGGGAL	EIEKTPAAE	DMES
OsYSL18	Sequence	-----	-----	-----	-----M	ESVG-----	DPRD

PtYSL1	Sequence	-----	-----	-----	MMIEAVEKE	EIEREG	-----	MEL
PtYSL2	Sequence	-----	-----	-----	MEME	-----	-----	MEV
PtYSL3	Sequence	-----	-----	-----	MNMNMEEMK	EIERVG	-----	GEGM
PtYSL4	Sequence	-----	-----	MERRRSGG	DHRENYTNPF	DGEDQVSSAD	-----	EKEEV
PtYSL5	Sequence	-----	-----	-----	MEIADD	NNKYKKPEGE	-----	EEGEE
PtYSL6	Sequence	-----	-----	-----	M	GTEITEPLL	-----	DSKD
<div>190200210220230240</div>								
AtYSL1	Sequence	EPDTEEEMSG	RTIEITKI	IVIVFVIV	IIVFVIAQ	KNTIV	NNSA	AA
AtYSL2	Sequence	QFQDEFIDS	RKPARKI	IVAIALL	IIVYVCL	KNTLV	NNSA	AA
AtYSL3	Sequence	EETQNEGDDF	KSIENKEI	FIILIALI	IIIYVVI	KNTLV	NNSA	AA
AtYSL4	Sequence	-----LDHG	EYVENKEI	IILISAL	LILFCITH	KNTII	SNA	GG
AtYSL5	Sequence	SVEKIFESRE	--VSSKKL	IVAFIVFM	LSILFFIV	KNTII	SNSG	GG
AtYSL6	Sequence	--KT-VTATE	EHVENKEI	IILTLVAL	LTLFCITH	KNTVVI	SNA	GG
AtYSL7	Sequence	SVERIFEESN	EIPENQKL	FIALIVFI	LAILFTFVV	KNTVI	SNI	GG
AtYSL8	Sequence	-----	-----	-----	-----	-----	-----	-----
OsYSL2	Sequence	DHD-GAAAAA	ERVAREIV	AAIMIAALL	IFVYTVII	KATII	TNSA	AA
OsYSL6	Sequence	GGDSAAAAGV	ERVAREIV	IVIIIVAV	LVLFCITH	KNTVVI	SNSG	GG
OsYSL9	Sequence	EGATHARGGG	GAPAREIL	AILLIALA	VIAMYVVI	KNTLV	TNSA	IA
OsYSL15	Sequence	DP--ARAREM	ERLQAREIV	AAIVIAAL	IFVFVVI	KIALLV	TNI	AA
OsYSL16	Sequence	EPALAAAREA	ERVAREIV	AAIMIAALL	IVVYTVVI	KSTII	TNSA	AA
OsYSL18	Sequence	GPSTERAFEG	QPVATEIV	LAVIAVA	LVALSVM	NVFSII	SNI	GG
PtYSL1	Sequence	EPQDESEGS-	R---TITKV	IVIIIVIL	IAIYIIIA	KSTIM	NFS	AA
PtYSL2	Sequence	DPQDEPEGS-	RRPQITKI	IVIFTAIL	IAIYVVI	KNTVLA	NFS	AA
PtYSL3	Sequence	EEVRDEPEDI	KRIAITKI	IVIIIAIA	IIIIYVVI	KNTLV	NNSA	AA
PtYSL4	Sequence	MVEEGFKDTE	--VSAKI	LIALTLV	LSIVNFVC	KNTVVI	SNA	GG
PtYSL5	Sequence	SVERIFAKQE	--VSRNL	WAFGVFI	LSVLFIV	KNTAII	SNSG	GG
PtYSL6	Sequence	--TINTVDST	EIIENKDI	IILIVAV	LVLFCITH	KNTVVI	SNA	GG
<div>250260270280290300</div>								
AtYSL1	Sequence	IVVQTIKI	KKS	-----	FVAK	RGENTMT	SATVGV	AVG
AtYSL2	Sequence	VLKSTKV	QKA	-----	IATT	RGENTIA	ATVGS	SLA
AtYSL3	Sequence	VLRSKL	TKA	-----	IVTK	KENTV	ATVGS	VG
AtYSL4	Sequence	FVKSIGF	SKL	-----	FLSK	KENTGT	IVSSGLY	S
AtYSL5	Sequence	FVKTIKM	HRS	-----	LLKQ	RGENTGT	IVSSG	FS
AtYSL6	Sequence	FVKSIGF	SKL	-----	FTVK	KENTGT	IVSSGLF	S
AtYSL7	Sequence	FVKSIKI	NKA	-----	FLKQ	RGENTGT	IVSSG	FS
AtYSL8	Sequence	-----	-----	-----	-----	-----	-----	-----
OsYSL2	Sequence	LALRGTRA	PALLLPGGGA	ASSSSRRR	RGENTVDT	ATVGTMGF	G	-----
OsYSL6	Sequence	YFLVRSIAV	GRL	-----	FVIA	KENTGT	IVSSGLF	S
OsYSL9	Sequence	VVLRGQA	ARL	-----	FAAR	RGENTVDT	ATVGS	VG
OsYSL15	Sequence	LALRGTRA	ERL	-----	FSPR	RGENTVDT	ATVGT	FG
OsYSL16	Sequence	LALRGTHA	DRL	-----	IASR	RGENTGT	ATVGT	GYG
OsYSL18	Sequence	FLLKATRL	DQL	-----	SPGR	RGENTVDT	IVSSASMTY	S
PtYSL1	Sequence	IVVQTIKV	QKA	-----	FVVR	RGENTMT	ATVGS	SI
PtYSL2	Sequence	IVVRSIKM	RRAT	-----	FVVK	RGENTMT	ATVGS	SH
PtYSL3	Sequence	VLRTIKL	SKA	-----	IVTS	RGENTVDT	ATVGS	VG
PtYSL4	Sequence	AILKFSL	GKA	-----	ILKQ	RGENTVDT	IVSSG	FS
PtYSL5	Sequence	FVKTIRF	ENC	-----	LLKQ	RGENTGT	IVSSG	FS
PtYSL6	Sequence	FVKSIGL	SRL	-----	FVS	KENTGT	IVSSGLF	S
<div>310320330340350360</div>								
AtYSL1	Sequence	-----	-----	AST	NHKVL	S-VNLENS	KSVKE	LI
AtYSL2	Sequence	-----	-----	AST	NRRVEE	T-VNTENN	RGIKE	V
AtYSL3	Sequence	-----	-----	AST	NRIIEQ	S-GTHDNY	EGTKE	I
AtYSL4	Sequence	-----	-----	AST	IAMDERKL	I-SDYPNN	EDVIN	LW
AtYSL5	Sequence	-----	-----	AST	FMSERIATQ	S---D-V	SRGV	DSL
AtYSL6	Sequence	-----	-----	AST	IAMDEKKL	I-ADYPNH	AEDVIN	LW
AtYSL7	Sequence	-----	-----	AST	FMSDVVAKQ	SA---EANT	LNINHL	LI
AtYSL8	Sequence	-----	-----	-----	MSHRIADQ	S---D-V	ARGV	DSL

OsYSL2	Sequence	-----	-----	---	SSS	S	A	NRK	YEL	A	-VSTP	NS	GSY	KE	V
OsYSL6	Sequence	-----	-----	---	SSSM		AMDQK	YEL	I	-PDYP	NR	A	IDVMN	SL	
OsYSL9	Sequence	SSIRRLPSLM	EIPTDWFFGS	FCAG	SSSY		NRK	YEL	A	-EDTE	NV	GSY	KE	IA	
OsYSL15	Sequence	-----	-----	---	SSST		NRK	YEL	A	-NS-P	NV	GSY	KE	I	
OsYSL16	Sequence	-----	-----	---	SSSF		NKK	YEL	S	-ASTP	NV	GSY	KE	I	
OsYSL18	Sequence	-----	-----	---	SSSY		AMDRK	AEK	TS	---TGDDS	SASVSE	EF			
PtYSL1	Sequence	-----	-----	---	LSST		DRN	YEL	S	GLKTE	NS	SSGL	KE	EF	
PtYSL2	Sequence	-----	-----	---	ASST		NRK	YEL	S	-VQTE	NP	STSI	KE	F	
PtYSL3	Sequence	-----	-----	---	SSSY		NRK	YEQ	A	-VDAE	NT	GST	KE	I	
PtYSL4	Sequence	-----	-----	---	TASST		MTPRIANQ	SE	----	G	NT	ANM	KE	LHL	
PtYSL5	Sequence	-----	-----	---	SSSY	F	MSGRIAQE	SA	----	DQPS	AKDI	KE	D	IAL	
PtYSL6	Sequence	-----	-----	---	SSSY	I	A	DEK	KL	I	-TDYP	NR	AEDV	KE	L
<div>370380390400410420</div>															
AtYSL1	Sequence	NTAY	FTC	FIG	V	I	RKV	V	DLNL	YPSGLATAV	LINGFH	-QG	DAQAKQ	RG	
AtYSL2	Sequence	NTS	FT	FIG	V	V	RKV	V	DLNL	YPSG	ATAV	LINGFH	SKG	D	TAKQIRG
AtYSL3	Sequence	NTA	FTC	FVG	L	A	RKI	V	DLNL	YPSG	ATAV	LINGFH	KG	N	MAKQ
AtYSL4	Sequence	NTT	FTS	FLG	S	V	RKV	V	LDNL	YPSG	ATAM	LINSFHNNTG		AELAGQ	KC
AtYSL5	Sequence	NI	FTS	FLG	S	V	RKI	V	DFNL	YPSG	ATAH	LINSFH	QG	A	LAKQ
AtYSL6	Sequence	NI	FTS	FLG	S	V	RKV	V	LDNL	YPSG	ATAM	LINSFH	NTG	AELAGN	KC
AtYSL7	Sequence	NI	FTS	FLG	S	V	RKI	V	DFNL	YPSG	ATAH	LINSFH	QG	A	LAKQ
AtYSL8	Sequence	NI	FTS	FLG	S	V	RKI	V	DFNL	P	PSG	ATAH	LINSFH	QG	A
OsYSL2	Sequence	NT	FTAI	FVG	L	N	RKAL	V	DLNL	YPSG	ATAV	LINGFH	QG	ENS	AKQ
OsYSL6	Sequence	NI	FTM	FLG	S	V	RKV	V	DLNL	YPSG	ATAM	LINSFH	TSG	AEL	AKQ
OsYSL9	Sequence	NT	FTLA	FVG	L	A	RKV	V	DLNL	YPSG	ATAV	LINGFH	HG	D	AM
OsYSL15	Sequence	NI	FTLAI	FAGNLS	I		RKALVVD	DLNL	YPSG	ATAV	LINGFH	QAQ	D	N	AKQ
OsYSL16	Sequence	NT	FTLST	FVG	L	T	RKV	V	DLNL	YPSG	ATAV	LINGFH	QG	D	N
OsYSL18	Sequence	R	MA	FTL			RKT		IRHRL	F	PSGS	SATAH	LINSFH	HG	ARQ
PtYSL1	Sequence	NI	FTY	FLC	FVG	V	RKI	L	VDMNL	YPSGLATAV	LINGFHS	-RG	D	M	AKQ
PtYSL2	Sequence	NI	FTY	FLC	FVG	V	RKI	L	VDMNL	F	PSGM	ATAV	LINGFHS	-RG	N
PtYSL3	Sequence	NT	FTS	FLS	FVG	L	RKI	V	DLNL	S	PSG	ATAV	LINGFH	NTG	D
PtYSL4	Sequence	NI	FTA	FVG	S	V	RKL	V	LK	YPSG	ATAY	LINSFH	KG	A	LAKQ
PtYSL5	Sequence	NI	FTS	FLG	S	V	RKI	V	DFNL	YPSG	ATAH	LINSFH	EG	A	LAKQ
PtYSL6	Sequence	NI	FTS	FLG	S	V	RKV	V	MDNL	YPSG	ATAM	LINSFH	NTG	AEL	AGQ
<div>430440450460470480</div>															
AtYSL1	Sequence	FMKY	FS	L	WG	F	WF	S	I	ED	-CGFAQF	P	G	K	W
AtYSL2	Sequence	FIS	GLS	F	WA	F	WF	YS		EK	-CGFSQF	P	G	Q	L
AtYSL3	Sequence	FVKT	FS	I	WA	F	WF	S		TE	-CGFIQF	P	G	E	L
AtYSL4	Sequence	LGR	L	LSLV	WSC	F	K	WF	S	I	GGA	CGFDHF	P	L	G
AtYSL5	Sequence	LGR	F	LS	F	WS	F	WF	T		EN	-CGFSNF	P	G	K
AtYSL6	Sequence	LGR	L	LSLI	WSC	F	K	WF	S	I	GDA	CGFDNF	P	L	G
AtYSL7	Sequence	LGR	F	FS	L	WG	F	WF	AT		DG	-CGFANF	P	G	K
AtYSL8	Sequence	LGR	F	FS	F	WG	F	WF	TA		EN	-CGFNSF	P	G	R
OsYSL2	Sequence	FLNC	G	ISLL	WS	F	WF	YT		ES	-CGFLQF	P	G	K	W
OsYSL6	Sequence	LGR	L	IS	F	WNC	F	K	WF	S	I	VGDS	CGFDNF	P	S
OsYSL9	Sequence	FTKY	AMS	F	WS	F	WF	YS		DN	-CGFSQF	P	G	K	W
OsYSL15	Sequence	FLKY	GLSLF	WS	F	WF	YT		NA	-CGFVQF	P	G	K	W	H
OsYSL16	Sequence	FLRY	G	ISL	WS	F	WF	YT		DV	-CGFLQF	P	G	K	W
OsYSL18	Sequence	VLRSSLASLF	WS	F	WF	YT		PN	-CGFTSF	P	G	S	FNR	G	F
PtYSL1	Sequence	FVKY	IS	L	WA	F	WF	T		KDGY	CGFAHF	P	G	M	E
PtYSL2	Sequence	FMKY	IS	L	WA	F	WF	YT		KEG	-CGFSQF	P	G	K	W
PtYSL3	Sequence	FMKY	IS	L	WA	F	WF	YS		EK	-CGFSQF	P	A	L	G
PtYSL4	Sequence	LFKY	AGS	L	WAG	F	WF	WTA		ADG	-CGFASF	P	G	P	Q
PtYSL5	Sequence	LGR	F	FS	L	WG	F	WF	KA		EDN	-CGFANF	P	G	K
PtYSL6	Sequence	LGR	L	ISLV	WSC	F	K	WF	S	I	GDS	CGFDNF	P	S	L
<div>490500510520530540</div>															
AtYSL1	Sequence	NLS	L	LG		SYGL	L	NP	L	DKL	K	SWF	D	N	DEHN
AtYSL2	Sequence	NLS	L	FG		SYGI	L	NP	L	ARL	K	EW	F	T	KDNS

AtYSL3	Sequence	NISLFGIVISGILNPFKGLKDWFSITPENSKSNYKYSISISDQ
AtYSL4	Sequence	NCSVLGGISGFLNPFSGHAKDWFDKANDFKSYKYSASISDQYL
AtYSL5	Sequence	INISVLGGISGILNPFETKLDWFDNVPSSHLQAYKYSAVISDQYN
AtYSL6	Sequence	NCSVLGGISGILNPFVSGHAKDWFDGSNDFKSYKYSASISDQYL
AtYSL7	Sequence	INVSLLGGISGVNPFGAQKKNWADSSSTLHLQYRYSASISDQYN
AtYSL8	Sequence	INISLLGGISGILNPFETRLDWFSNVDSSNLQAYKYSAVISDQYN
OsYSL2	Sequence	NLSALFGISGILNPFISIQKKNWGNVPESSTSFYYSIMCVISDQYH
OsYSL6	Sequence	NCSTLLGGISGFLNPFSTKADWFSNGSNDFKSYKYSASISDQYL
OsYSL9	Sequence	NLSLLGGISGVNPFSDLKDWFSNIPESSTSYKYSALCVISDQYN
OsYSL15	Sequence	NLSTLLGGISGILNPFSKHLDWFSNIPESSTSYKYSALCVISDQYH
OsYSL16	Sequence	NLSLFGISGILNPF GKQKNWFSKASESSSYFYYSALCVISDQYH
OsYSL18	Sequence	INVSMLFGSISGILRPYRSKRINWDDQETNLNFSSTYLLVAISLRTIHTVRHHQ
PtYSL1	Sequence	NLSLLGGIVSYGILNPFRLQKEWFSIDESSTSNYKYSLAVISDQYF
PtYSL2	Sequence	NLSLLGGIVSYGVNPF GQLKDWFSSEETSSSYFYKYSLAVISDQYT
PtYSL3	Sequence	NLSLLGGIVSGILNPF GGLKEWFS TSESSSTSNYKYSISISDQYN
PtYSL4	Sequence	NISLLGGISGILNPIETKLDWFSDEKPSLHLQYRYSASISDQYFHV
PtYSL5	Sequence	INASVLGGISGILNPFETRLNDWFS ESKPLHLQYKYSASISDQYN
PtYSL6	Sequence	NCSVLGGISGFLNPFSGHAKAWFDSSNDFKSYKYSASISDQYL

		550	560	570	580	590	600
AtYSL1	Sequence	VILFVIANVNARLNK--	PNDLDDVG--	HK-----	K--QRKDL	KEDENFRDK	
AtYSL2	Sequence	VILFFGRSFHSRLSKTNS	ISTLVEVPED	STK-----	E--SDNLK	RENEVFVRES	
AtYSL3	Sequence	IILFKGINMYVKLNRRNS	GK--SNSEK	DKQ-----	S--IADLK	R-DIEFVRDS	
AtYSL4	Sequence	IIVVVKICNKSSRQHN	LPVFTDILDK	SKT-----	SVLMREKK	KDIIIFKDR	
AtYSL5	Sequence	CVLSRLSGLFVQLRGPTT	SISRTSFTLE	EDP---HASP	LSPKQSYDDQ	RTTRFFKDD	
AtYSL6	Sequence	VIIIVVKELCSSRSRLNL	LPIVTDGVDD	SEA-----	SEILLVKK	KDEVFKDR	
AtYSL7	Sequence	IVLGRVFGLYKQFKNKD-	-----VLPIN	DHT----ST	APVTISYDDK	RTTLFKDR	
AtYSL8	Sequence	CVLIRIFSG LISQIRGKAG	--SRSSLAHK	EDPPASPASP	LTPRISYDDQ	RTTRFFKDD	
OsYSL2	Sequence	IVTGIKAKSLHERSNRRHA	KK--ATDE-	-DT-----	F--VIADM	QDEFFNKDY	
OsYSL6	Sequence	IIVYAIKELVMNARSKQGR	LPLVR-VHDD	DEG-----	SKLSAEEL	LNDTFKDR	
OsYSL9	Sequence	VIVALIKNLFDSKLKNA	KK--GE--	-DM-----	P--VLDEL	HNEVFTTDN	
OsYSL15	Sequence	VVTGVAKSLHNRFNRKSV	SN--TASEE	GDM-----	V--SLDDL	QDEVFKRGT	
OsYSL16	Sequence	VVIVVLKSVRERSRRRL	NN--RVAD-	ADT-----	M--AIDDM	QNEVFNRDN	
OsYSL18	Sequence	VAAETLRSFSDVDAMPR--	-----	-----	PVMSFDR	RTQVFEREH	
PtYSL1	Sequence	VIMGMISNVRRRLKNKNT	SPGKL DILCS	FFL-----	K--LFDEQ	KQNKFFGET	
PtYSL2	Sequence	VVMVCIIINVHGRVRDK--	---KLSAAMD	HQK-----	K--HLDDQ	RVNETFRET	
PtYSL3	Sequence	LILYFARS MRARAKAN--	-K---LKTED	KNQ-----	A--LDLQ	R-NEIFREG	
PtYSL4	Sequence	IFMLSKTISLIINIKKKG-	---SEVPGY	GDD-----	E NSKLVKYDEK	RTTEFFKDD	
PtYSL5	Sequence	CVLSRLIGLYIQLQGD-	--PKMALPVD	GSP-----PP	KTLTVSYDDQ	RTQLFKDD	
PtYSL6	Sequence	IIVIIIIKEMCN-KSTMQN	LPIVSEVQD-	SET-----	SKLLLEQR	KDEVFKDR	

		610	620	630	640	650	660
AtYSL1	Sequence	PMFV VSGY	LTFAAVTVV	VPLIIVQK	FFIVVIF	SISCNYS	ASTDINYS
AtYSL2	Sequence	PLIMCVGY	LFFSLV IIA	PLIVQK	FFLVVLL	SISCNYS	ASTDMNYS
AtYSL3	Sequence	PLIVAVGY	AAFSSV IIA	PIIV E K	FFIVVIML	SISGSYS	ASTDMNYS
AtYSL4	Sequence	PLEFVSGY	VGAAITAI	PLIIVPK	FFLCSLV	GISCNYS	ASTDMSIPS
AtYSL5	Sequence	PTFVGGY	ITIAATTAI	LPHIVH R	FFILVVIC	VISCNYS	ASTDWSLS
AtYSL6	Sequence	PLEFVAGY	VGAAITAT	PIIIVPK	FFLCSFI	AISCNYS	TASTDWSLS
AtYSL7	Sequence	PSFVVTGY	VVAIV IIT	VPHIIVH R	FFILIM I I	VISCNYS	CASTDWSLS
AtYSL8	Sequence	PSFVGGY	VVISAVTAI	LPHIVS R	FFIIVVIF	VISCNYS	ASTDWSLS
OsYSL2	Sequence	PNLLYAGY	ALSVAVIA	PIIVQV K	FFVVFVL	VVGISYS	TASTDMNYS
OsYSL6	Sequence	PSLLGSGY	VGAAITAT	VPMI			
OsYSL9	Sequence	PSLLFSGY	LGTFIAVIA	PMHEM K	FFVIVLL	AGISCNYS	ASTDINYS
OsYSL15	Sequence	VPSIMYSGY	FLSIIAVIT	PIIVR V K	FFIIVV ALG	VVGISYS	ASTDINGY
OsYSL16	Sequence	PTMAYTGY	TLSVIAVVL	PVIRV K	FFIIVVLL	AGISCNYS	TASTDMNGY
OsYSL18	Sequence	PTSTFISGY	VVATVTVV	PLIYG VRY	FFIAVAF	VISCNYS	TASTVAETFS
PtYSL1	Sequence	PLLGLIIGY	VIFSV IIA	VPIIVQK	FFVVSIVL	SISCNYS	ASTDINYS
PtYSL2	Sequence	PLIVVIGY	VAFSILVIA	VPIIVQK	FFIIVVVL	SISCNYS	ASTDINYS
PtYSL3	Sequence	PLIVCLGY	ITFSIIAIIA	PFIV E K	FFVIVVIL	SISCNYS	ASTDMNYS
PtYSL4	Sequence	PNIVGGGY	ILAV IIA	VPHIIVQK	FFQILAVI	VISCNYS	CASTDWSLS

PtYSL5	Sequence	PT	F	V	AGY	VV	IA	AV	TAT	L	PHI	Q	Q	K	Y	IL	VI	AC	T	T	Y	Y	C	IT	D	W	S	L	S							
PtYSL6	Sequence	PT	L	V	AAGY	VG	AA	I	TAV	P	VI	P	K	K	L	L	CS	I	I	A	T	Y	Y	T	IT	D	W	L	T	S						
		<div><div>670</div><div>680</div><div>690</div><div>700</div><div>710</div><div>720</div></div>																																		
AtYSL1	Sequence	NY	K	I	G	VI	VT	R	EN	IV	AG	DL	IK	VL	V	SCI	LD	KT	AHY	IM	S	KA	LA	A												
AtYSL2	Sequence	NY	K	A	VM	LA	K	ND	IV	MA	VA	DL	IK	S	VL	SAD	HD	KT	HH	IQ	S	RS	LL													
AtYSL3	Sequence	NY	K	V	IL	MA	K	QN	IV	MA	VG	DL	IK	S	VL	SSD	HD	KT	HH	IQ	S	RS	LL													
AtYSL4	Sequence	TY	K	T	G	IV	S	I	V	N	NG	II	AA	VI	MM	S	TAA	LD	KT	Y	IS	AK	S													
AtYSL5	Sequence	TY	K	L	I	TI	G	WA	SE	HG	ML	AA	IV	MM	N	TAS	LD	KT	Y	IS	AK	S														
AtYSL6	Sequence	TY	K	I	G	II	S	V	V	S	DG	II	AA	IV	MM	S	TAA	LD	KT	Y	IS	AK	S													
AtYSL7	Sequence	TY	K	L	I	TI	G	WA	AS	NG	LL	AA	IV	MM	N	TAS	LD	KT	Y	IS	AK	S														
AtYSL8	Sequence	TY	K	L	I	TI	G	WA	SD	HG	LL	AA	IV	MM	N	TAS	LD	KT	Y	IS	AK	S														
OsYSL2	Sequence	NY	K	I	IL	IF	WG	R	DN	II	VG	DI	VK	QL	Q	V	SAD	HD	KT	HH	IT	S	RS	LL												
OsYSL6	Sequence																		QT	T	R	P	R	M	E	L	A	L								
OsYSL9	Sequence	NY	K	I	IL	II	WA	K	DS	IV	VG	DL	VK	QL	L	IS	AD	HD	KT	HH	IT	S	RS	LL												
OsYSL15	Sequence	NY	K	I	VF	II	WA	K	DN	II	V	GT	L	VK	QL	L	V	SAD	HD	KT	HH	IT	S	RS	LL											
OsYSL16	Sequence	NY	K	I	IF	II	WA	K	DD	IV	VG	DL	VK	QL	L	IS	AD	HD	KT	HH	IT	S	RS	LL												
OsYSL18	Sequence	Q	N	L	V	I	L	M	F	S	W	I	K	N	G	I	V	G	S	V	I	P	I	V	S	S	T	A	T	L						
PtYSL1	Sequence	NY	K	A	VL	IS	R	EN	IV	A	V	G	DL	VK	VI	V	SCI	LD	KT	AH	IF	S	RA	LL												
PtYSL2	Sequence	NY	K	V	VL	VS	R	EN	IV	A	AG	DL	VK	VL	V	ACI	LD	KT	AQ	IS	S	RA	LL													
PtYSL3	Sequence	NY	K	V	LL	LA	K	NN	IV	MA	VG	DL	IK	S	VL	SSD	HD	KT	HH	IT	S	RS	LL													
PtYSL4	Sequence	NY	K	F	I	I	F	S	W	V	L	P	N	G	I	I	AS	IV	MM	S	TAS	LD	KT	Y	IS	S	RS	I	F							
PtYSL5	Sequence	TY	K	L	I	TI	G	WA	AA	HG	LL	AA	IV	MM	N	TAS	LD	KT	Y	IS	AK	S														
PtYSL6	Sequence	TY	K	I	G	II	S	L	V	S	DG	IV	AA	S	IV	MM	S	TAA	LD	KT	Y	IS	AK	S												
		<div><div>730</div><div>740</div><div>750</div><div>760</div><div>770</div><div>780</div></div>																																		
AtYSL1	Sequence	S	M	V	V	IV	T	S	F	K	DI	N	N	E	F	K	Y	L	Y	R	A	I	I	Q	S	A	L	N	E							
AtYSL2	Sequence	A	A	V	I	IV	V	T	F	K	DI	N	N	E	K	Y	M	Y	R	A	I	I	E	I	S	A	K	N	E							
AtYSL3	Sequence	S	A	V	I	IV	V	T	F	K	DI	N	N	E	K	Y	M	Y	R	A	I	I	E	I	S	A	K	N	E							
AtYSL4	Sequence	T	L	L	V	IV	I	I	T	W	WT	DI	D	D	L	K	Y	V	Y	R	A	I	I	E	I	S	A	K	N	E						
AtYSL5	Sequence	S	V	V	V	IV	V	S	CV	W	K	DI	N	N	E	K	Y	M	Y	R	A	I	I	E	I	S	A	K	N	E						
AtYSL6	Sequence	S	V	V	V	IV	I	I	T	W	WT	DI	D	D	N	P	K	Y	V	F	R	A	I	I	E	I	S	A	K	N	E					
AtYSL7	Sequence	S	A	V	V	IV	I	S	CV	W	K	DI	N	N	E	K	Y	M	Y	R	A	I	I	E	I	S	A	K	N	E						
AtYSL8	Sequence	S	V	V	V	IV	L	V	S	CV	W	K	DI	N	N	E	K	Y	M	Y	R	A	I	I	E	I	S	A	K	N	E					
OsYSL2	Sequence	G	A	V	V	IV	I	I	T	L	I	K	DI	N	D	Y	W	K	Y	L	F	R	A	I	I	E	I	S	A	K	N	E				
OsYSL6	Sequence																																			
OsYSL9	Sequence	A	A	V	I	IV	I	S	T	F	I	S	DI	N	E	Y	W	K	Y	L	V	R	A	I	I	E	I	S	A	K	N	E				
OsYSL15	Sequence	G	E	L	V	GI	I	F	I	T	M	I	R	DI	N	D	Y	W	K	Y	L	V	R	A	I	I	E	I	S	A	K	N	E			
OsYSL16	Sequence	G	V	V	V	IV	I	V	T	F	I	K	DI	N	N	E	K	Y	M	Y	R	A	I	I	E	I	S	A	K	N	E					
OsYSL18	Sequence	S	V	V	V	IV	V	N	AV	TV	H	H	F	Y	EM	N	K	T	Q	L	K	V	R	A	I	I	E	I	S	A	K	N	E			
PtYSL1	Sequence	N	V	V	V	IV	I	V	SS	F	I	K	DI	N	S	G	F	K	Y	L	Y	R	A	I	I	E	I	S	A	K	N	E				
PtYSL2	Sequence	S	V	V	V	IV	I	A	V	SS	F	I	K	DI	N	Y	E	F	K	Y	L	Y	R	A	I	I	E	I	S	A	K	N	E			
PtYSL3	Sequence	S	A	V	V	IV	I	V	VT	F	I	K	DI	N	D	E	K	Y	L	Y	R	A	I	I	E	I	S	A	K	N	E					
PtYSL4	Sequence	S	V	V	V	IV	I	L	T	V	W	V	Q	Y	P	V	E	E	G	S	A	P	Y	G	V	R	A	I	I	E	I	S	A	K	N	E
PtYSL5	Sequence	S	V	V	V	IV	I	S	CV	W	K	DI	N	G	S	Q	P	Y	V	V	R	A	I	I	E	I	S	A	K	N	E					
PtYSL6	Sequence	S	V	V	V	IV	I	I	T	W	W	S	DI	D	D	P	K	Y	V	F	R	A	I	I	E	I	S	A	K	N	E					
		<div><div>790</div><div>800</div><div>810</div><div>820</div><div>830</div><div>840</div></div>																																		
AtYSL1	Sequence	Q	M	V	V	GF	V	L	V	V	VD	T	A	K	---	I	G	R	F	M	P	T	S	V	L	V	S	D	C	T	S					
AtYSL2	Sequence	E	C	V	V	AF	V	A	A	V	AD	L	D	K	---	P	G	K	W	I	P	T	S	V	V	L	V	G	S	D	C	T	S			
AtYSL3	Sequence	Q	C	V	V	AF	V	A	A	V	VD	L	D	K	---	I	G	N	W	V	P	T	S	V	V	L	V	G	S	D	C	T	S			
AtYSL4	Sequence	A	C	V	V	IA	L	I	V	V	ID	M	T	P	K	---	I	S	K	L	I	P	T	S	V	G	Y	I	S	D	F	T	V			
AtYSL5	Sequence	V	C	V	V	GV	I	L	V	V	ID	K	S	L	H	---	SN	W	G	R	F	I	P	T	S	V	I	F	L	P	T	S				
AtYSL6	Sequence	A	C	V	V	IA	L	I	V	V	LD	I	T	P	K	---	I	S	Q	F	I	P	T	S	V	G	Y	I	S	D	F	T	V			
AtYSL7	Sequence	M	C	V	V	AA	V	I	V	V	IDA	L	G	---	PK	W	---	A	R	F	I	P	T	S	V	I	F	L	P	T	S					
AtYSL8	Sequence	M	C	V	V	GV	I	L	I	V	ID	K	S	L	H	---	NR	W	---	G	R	F	V	P	T	S	V	I	F	L	P	T	S			
OsYSL2	Sequence	E	S	A	V	AF	S	V	L	I	V	M	D	F	L	R	---	Y	R	D	Y	V	P	T	S	V	L	V	N	D	C	T	S			
OsYSL6	Sequence																																			
OsYSL9	Sequence	Q	C	V	V	GF	V	A	A	V	TD	L	C	P	K	---	Y	G	R	W	V	P	T	S	V	G	Y	I	S	D	C	T	S			
OsYSL15	Sequence	S	S	V	V	AF	V	L	T	V	ADA	L	A	R	---	Y	K	K	L	V	P	T	S	V	V	L	V	S	D	C	T	S				

OsYSL16	Sequence	<div>QAFVLAADF LRR-----Y GRYMPLVLS DQASV</div>
OsYSL18	Sequence	<div>AISATVL LAVCAMTEV AAHG--KWRA EPYIPSVTG SLLVPAV SDHI S</div>
PtYSL1	Sequence	<div>QCFV IAVVDF LRR-----I GQWVPLV GVI S DCS</div>
PtYSL2	Sequence	<div>QCYAF IAIIVDF SQR-----I GQWMPV GVI S DSI S</div>
PtYSL3	Sequence	<div>QCYAF ILAIVSDL SNN-----I GKYVPLV LVS DQASV</div>
PtYSL4	Sequence	<div>FKSIIIFA MIIIVTEL LRKYETKYRI YRFIPSLCL IIVYLGF DCS</div>
PtYSL5	Sequence	<div>KGIICG ILIIVFKDV MERCKKF-- AKFIPVVI IIVYIP DCS</div>
PtYSL6	Sequence	<div>AACIVA LVIIIVLDV TKE-----I SQFIPVVI IIVYI DFTV</div>
		<div>850860870880890900</div>
AtYSL1	Sequence	<div>VVEKMRKEEFMV SSGEL LLAADV GKSGK LAS-----</div>
AtYSL2	Sequence	<div>VYVKVVRKEDVMV SSGDL LILSSLV KRSGN TAAH-----</div>
AtYSL3	Sequence	<div>VANMRDRVGLMV SSGDL LILSSV GRSGG MPSKYSS---</div>
AtYSL4	Sequence	<div>MLVERMKKDDDYSG SSGDL IISAI SIL RINSGY RPS-----</div>
AtYSL5	Sequence	<div>LIERVDAAKEAFGT SSGDL IISAI SIL GNVVVK LSSATNSKVD</div>
AtYSL6	Sequence	<div>LVERIRKDEDFAG SSGDL IISAI SIL RINSGY GPSSAR----</div>
AtYSL7	Sequence	<div>LIRKLKPDAYSS SSGEL ILSAI I GKA G LSMASNNKVD</div>
AtYSL8	Sequence	<div>LVERLDAPKEAFAT SSGDL ILSAI I GKA G LSAATNHRVD</div>
OsYSL2	Sequence	<div>VAHKISKESALLV SFGDL IMFSSLS KKGK TPGS-----</div>
OsYSL6	Sequence	<div>-----</div>
OsYSL9	Sequence	<div>VTHIDKSALMV SSGDL IFASL KISMIA RSTN-----</div>
OsYSL15	Sequence	<div>LANKMK EAFMV SSGM DI IFSSI KIK G TPGS-----</div>
OsYSL16	Sequence	<div>VLRHFDGKRALLV SSGDL IFSSL KKG G IPGN-----</div>
OsYSL18	Sequence	<div>VLRNRNDKLG SQVFGVL SSGDL SIVYALRY DITGIR LGRVQNDKLD</div>
PtYSL1	Sequence	<div>VVHKRTNKEFMI SSGEL LLAAI KIKGN VAS-----</div>
PtYSL2	Sequence	<div>VLIHKRDTKKEFMV SSGEL LLEAV QKGK VAS-----</div>
PtYSL3	Sequence	<div>VAHKLRSRLSMV SSGDL IILSSI KIRGS LATN-----</div>
PtYSL4	Sequence	<div>LLELRKQSDFG SSGESL GIAAI S GNM MIK LTAAVNGKVD</div>
PtYSL5	Sequence	<div>LYVGRIKADAF SSGDL IILSSI GKAGR FSRATSTRID</div>
PtYSL6	Sequence	<div>LVERIRKDEDYSG SSGDL IISAI IIF RINSGY GPSLSG----</div>
		<div>910920930940950960</div>
AtYSL1	Sequence	<div>-----</div>
AtYSL2	Sequence	<div>-----</div>
AtYSL3	Sequence	<div>-----</div>
AtYSL4	Sequence	<div>-----</div>
AtYSL5	Sequence	<div>NFLKGS I-----</div>
AtYSL6	Sequence	<div>-----</div>
AtYSL7	Sequence	<div>AFLNPS-----</div>
AtYSL8	Sequence	<div>KFLQGSS-----</div>
OsYSL2	Sequence	<div>-----</div>
OsYSL6	Sequence	<div>-----</div>
OsYSL9	Sequence	<div>-----</div>
OsYSL15	Sequence	<div>-----</div>
OsYSL16	Sequence	<div>-----</div>
OsYSL18	Sequence	<div>AFLASKAKAG-----</div>
PtYSL1	Sequence	<div>-----</div>
PtYSL2	Sequence	<div>-----</div>
PtYSL3	Sequence	<div>-----</div>
PtYSL4	Sequence	<div>GFLSG-----</div>
PtYSL5	Sequence	<div>NFIGS-----</div>
PtYSL6	Sequence	<div>-----</div>