

# SCR

PrSCR	MAACIAMNTRFRGGDASGEEV FVVGETDSNNSMII PASEGENRRKRTGMELNGPLFRRIN	60
AtSCR	MA-----ESGDFNGGQPPPHSPLRRTTSSGSSSSNNGRPPPPPPPLVMVR	45
ZmSCR	MP-----PPPPPPPLTPYCRRCPPPHLPPPPPPSSPNHFLH	36
PrSCR	PSESSDYGQIKWNNLSSGLRESQSPVPLASAAGWQYPSSATVDSVSHRISAPSRTPGGLGL	120
AtSCR	-----KRLASEMSSNPDYNNSSRPPRRVS-----HLLDSNYNTVTPQQPPSLTA	89
ZmSCR	YLHQLDHQEAAAAAMVRKRPASDMDLPPRRH-----VTGDLSDVTA AAAAGVGGSG	88
PrSCR	ANSVLSGESNGQPFNGAYSNMFFQNSNMEROVSDSCSQWNKWSVVQPEVGLGCDGTGQ	180
AtSCR	AATVSSQPNPPLSVC-GE SGLPVFP SDRGGRNVMMSV-----	125
ZmSCR	APSSASAQLPALPTQ-LHQLPFAFQHHAPEVDVPAHP-----	124
PrSCR	QLSSLNAVQTMDEAAA AVVVDGMIKDLMMQSS-PNV SMAQIIQSLQEIAL-YNPHIASVL	238
AtSCR	QPMQDSSS--SSASPTVVD AII RDLIHSS--TSVSI PQLIQNVRDII FPCNP NLGALL	181
ZmSCR	APAAHAQAGGEATASITTAWVDGIIRDIIGSSGGA AVSITQLIHNVREI IHPCNPGLASLL	184
PrSCR	EYRLRSLGQSELGLAGNTQIGRDQNVGMNVSSDGRGFKRSMDQSDHHRDMNSQQQIMVD	298
AtSCR	EYRLRSLMLLDPSSSS-----DPSPQTFEP	206
ZmSCR	ELRLRSLLAADPAPLP-----PPQPQQA	209
PrSCR	WKSIGANPDSARRSARASQLDDDENRLIDNIHGRGLDVDDQRLRRGNDDLRLRIQSTESH	358
AtSCR	LYQISNNPSP-----QQQQHQQQ-----	226
ZmSCR	LLHGAPAAAAPAGLTLPPPPPLPK-----	233
PrSCR	DIQREHQPDSALKLYLDSSGYDQTSWASSKDQFSETAFMANQSMWVQPRQPDNNSQPPVL	418
AtSCR	--QQQHKP-----PPPPI	237
ZmSCR	--RRHEHP-----PPCQQ	244
PrSCR	SLQHQANEDDPLRVAPSN DNYITMRRINTNSNQDPSVNQTPQQQG PSDITASDEEGLHL	478
AtSCR	QQQERENSSTDAP--PQPETVTATVP AVQTNTAEALRERKEEIKR-----QKQDEEGLHL	290
ZmSCR	QQQEEHPAPQSPKAPTAEETAAAAAAQA AAAAAAKERKEEQRR-----KQFDEEGLHL	299

# SHR

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PrSHR      ----MDRLFTSRLADYCS-----EHPLSCFNSNKNCEDADTPRHIDSYNNHL 43
PtSCL6     MKGELEIMGINHQADFCISRHAPVLFSEKRMKLEESGOYLVRNEAAALSPQDCFEATGGQ 60
AtSHR      ----MDTLF--RLVSLQ-----QQQSDSIITN--QSSLSRTSTTTTGSPQ 38
OsSHR1     ----MDTLF--RLVSLQAA-----SE0000000SASYNSRSTTSSGSRSSSHOTNASY 47

PrSHR      SQFVLP-----SRRDKSRQCNS-----FMEDEDFSFKQ 71
PtSCL6     IGWILSESSELGQPSSVGLTAVTCQESNIDVNSIKARQOSLOFAD----TSDRPDCTRQV 116
AtSHR      TAYHYN-----FPONDVVEECFN-----FFMDEEDLSSSS 68
OsSHR1     SYHHSSNSGGGGGGGGGGYYGGQPPPSOYYYLEPYOEECGNAPHHQLYMDEFSSSS 107

PrSHR      FLPFKEMFNSNQTG-KGTTGENQFSGTRATSSRSSEVP----- 108
PtSCL6     QCIKNSFKLKSLSKLAFTPQLRSPSMAATHREWNASTDLNTRNSHYEELSTAPADQD 176
AtSHR      SHHHHHNNNPNTIYSPFTTPTQYHPATSSTPSSTAA-----AAALASPYSSSGHHN 120
OsSHR1     SRHFHHGARVOQQOPASSTPTGTAPTPLSTSSTAAGAGHGLFEADLSFPPDLNLDFS 167

PrSHR      DPSLFSELNPSF-PEEFGPAGSRRWASNLLLECARIAENEKSRTQHLLWMLNELSSPYG 167
PtSCL6     QSWPLLGVSIAKGLGNLGACHDASCMEQLLLHCSSALENNDVTLAQQIMWVLNNIASAEG 236
AtSHR      DPSAFSIPQTPP-SFDFSAN--AKWADSVLLEAARAFSDKDTARAQQILWTLNELSSPYG 177
OsSHR1     SPASSSGGGTAS-SGAVGGGGGGRWASQLLLECARSVAARDSQRVQQLMWMLNELASPYG 226
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GRAS

# L1SCL

PrSCL1	M--ANEKNGTFDGSKSNHGSNKIGLQRSWLRRETAIPAAQFQGSLSQKTNGLSNNI	GLQ	58
L1SCL	MVKELKVDDFFTDWDAKNG-----FELGWQPFGIDHPTNFG-----DSPNGS		42
AtSCL14	M--G-SYPDGFPGSMDELD-----FNKDFLPPSSNQTL-G--LANGFYLDD---		41
CsSCL	M--SPNSEDQFSNLIIDEYT-----FNQLSPLPTTDLNFLEGPNLLSDVDLGF		45
PrSCL1	WSWLQHEAAMPAAQLQDSLSEKMNGLSDNIGSQRSWSQEEAVPAAQLLPAAQYQGSLS		118
L1SCL	--AHVSPNGSALVSPDASATSSNG-----	NV	66
AtSCL14	--LDFS-SLDPPEAYPSQNNNNNN-----	IN	64
CsSCL	--TSFEPSITPTDGPEGQPYDPPH-----	VV	69
PrSCL1	SEQTITTTDGDSDDKETYSDIVLKYISDMLMDENMEDKKCMYQECALQATVKPFYDILG		178
L1SCL	SSSTSFEGDDVYADSEIFSDIVLSYINRMLNEEIIIDEKLDIFQGHPELEATEKPFYEILG		126
AtSCL14	NKAVAGDLLSSSSDDADFSDSLKYISQVLMEEDEEEKPCMFHDALALQAAEKSLYEALG		124
CsSCL	MPPTLQADSTTSPDDNDFSETVFKYMNQILMEENIENKPCMFYDPLGLKDEKSFYDALG		129
PrSCL1	ENYPPQGMCSKSKIGQNQNQLLNYTKDDVPYKIEDSSWIGEFFNSQ-----MPTGFESPL		233
L1SCL	EKYPPP---SDQPSMYN-NPSPETPDSNIYVKSSSSNSINSVVTSG---NWAFGAIELPQ		179
AtSCL14	EKY PSS---SSASSVDHPERLASDSPDGSCSGGAFSDYASTTTTTSSDSHWSVDGLENRP		181
CsSCL	QKNPPL---PNQNSLESPLSSSSSGDNGTNSTSSSSTVIDALLSDLGEHNYQPSLS-PP		185
PrSCL1	SANLSAGYSSQYSFSSSGSST-VIDGLPDSPIYEIN-----LSEYFSENKQDSGLG-E		284
L1SCL	NYLIPVDYSSQSSFGSTNSVHNAIEGLGPTMTN-----TEARDQFSEMLAEQFMRG		232
AtSCL14	SWLH-TPMPSNFVFQSTSRNSVTTGGGGGNSAVYGSFGDDLVSNMFKDDELAMQFKKG		240
CsSCL	PILG-EYNAVQSNFNPTDQSQ-FFGNLSDDSVNHFQDGL-AVMAQNIFTNSE SILQFRG		242
PrSCL1	FEEASQVVPKLN-MGISAENGRVMRAPKKETDLELKV GKREDAIGVPFQMNATHSDDENG		343
L1SCL	VEEARFKFLPKEDKLVINLEDNGISLPPKLMYDN---GLNEVKEEKEYTAYGSR-----		283
AtSCL14	VEEASKFLPKSSQLFIDVDSYIFMNSGSKENGSEVFKTEKKDETEHHHHHSYAPPPNRL		300
CsSCL	LEEASKFLPKSNNLVIDLESNTVSSSEWKKGDDL MVESLVVKGEKESDSSDGSR-----		296
PrSCL1	PKRQKDPHREDLDLEDRQSNKHS AVYSDNVIIR---TESFDEVLLCGGRNGKNEADMQVQV		400
L1SCL	-GRKNRHS-DELDLEEGRSNKQSAVDYTEET--LRSEMSDLVLLCPNCDGKEGVSSKTWT		339
AtSCL14	TGKKSHWRDEDEDFVEERSNKQSAVYVEESE---LSEMFDKILVCGPGKPVCI LNQNFPPT		357
CsSCL	-GRKNHER-EEIELEEGRSNKQTAVYVEESEETELSEMLHKVLLCTDAPPSLYGDNCEPL		354
PrSCL1	LQNGVQKSVQN-GSVKGSQG--PKTVGKKQGGKEVVDLRSLLLICAQVAADDTRGANET		457
L1SCL	QNEATRSPQN--GHTRGSGS--SKSRGKKPSKTEVVDLRTLIIHCAQTVAIDRRRSANDL		395
AtSCL14	ESAKVVTAQSNGAKIRGKKS--TSTSHSNDSKKETADLRTLVLCAQAVSVDDRRTANEM		415
CsSCL	QNDASKASPQTKGQVQGGANGGKGSRNKKQGGKKEVVDLRSLLLICAQAVSTGDGRTANEL		414

# PAT

PrSCL10	MSLASPCQESMRGDDNSYRTNSWYRGNLSGVPEISRNMGMQYMPGGIGLNLQRGWGNFR	60
AtSCL5	MRLSVFIIPLVESRQASGIINKQST-----SLLIRFSLYLEASISTKSFFSKSQRIS	52
OsCIGR2	-----MADTPTRMIHPFSN-----IPSONLKQFQYSDNPQHPCHP-----Y	37
AtPAT1	-----	
PrSCL10	SCSTDLSPKQNGNFAIDHTSTTGERSAGTLKMIQDRSPISPLSPKGIQSDGLPQTSQSQR	120
AtSCL5	OTQSPICLSAN-----YYOPDNLDMEATOKHMIQEGSSMEYHQPSVVKQMDLSVQTFDSY	107
OsCIGR2	RAPSDTHVVPH-----HYGLKSHSPDAG-----YESOATPNKYTLD-----	73
AtPAT1	-----MYKQPRQELEA-----YYFEPNSVEKRLRY-----	24
PrSCL10	LYSSERIQMDDDLIHSSSHNHGSFNDQVYIHESFPCNNELSSRESSICIQSSDGSPLSSQH	180
AtSCL5	CTLESSSGTKSHPCLNKNNKNSST-----TSFSS-----NESPISQAN	145
OsCIGR2	-----SSEGAGCMRHDSPSS-----QSFTTR-----SGSPLS----	100
AtPAT1	-----LPVNNRKRFFCTL-----EPFP-----DSPP----	45
PrSCL10	SQSYSSDSRYFHSAEDAADLVGNAYSGNGQPANLKILEEIEETALLGPDGDDPLDMYAYG	240
AtSCL5	NNNLSRFNNHNSPEENNNSPLSGSSATNTNETELSLMLKDIETAMMEPD-----	193
OsCIGR2	-----QEDSHSDSTDGSFVVGASCVTEDPN-DLKQKLDIEAVMLGPD-----	141
AtPAT1	-----YNALSTATYDDT--CGSCVTDELN-DFKHKIREIETVMMGPDS-----	85
PrSCL10	DHTLNSNSEWSLEALSDFNDFLDQTSNPGYSQINNADSSRVPDNLQQLTNHGDRNVKEET	300
AtSCL5	-----VDNSYNNQGGFGQQHG-----	209
OsCIGR2	-----SEIVNSLENSVANQLS-----	157
AtPAT1	-----LDLLVDCTDSFDSTAS-----	101
PrSCL10	VNEVNLKIEHFSPSSSDMEKLEIEELGSPQGDVKSLLEIECAKAIADGR--NADNLIAGLR	358
AtSCL5	-----VVSAMYRSMEMISRGDLKGVLYECAKAVENYDLEMTDWLISQLQ	254
OsCIGR2	-----LEPEKWVR-MMGI PRGNL KELL IACARAVEEKNSFAIDMMIPELR	201
AtPAT1	-----QEINGWRSTLEAISRRDLRADLVSCAKAMSENDLMMAHSMMEKLR	146

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# AtSCL3

PtSCL21	MVKDKSNDLGGAQNDKSNDVRICTKGQEQ-----QPWGAOKDKR-----	39
AtSCL3	MVAMFQEDNGTSSVASSPLQVFSTMSLNRPTLLASSSPFHCLKDLKPEERGLYLIHLLLT	60
PtSCL21	---YVFNGNMEQTNLCLEQISVLACVTGDPMQRLATYFMEGLAARITKSWPGLYKALNST	96
AtSCL3	CANHVASGSLQANANAALQLSHLASPDGDTMQRIAAAYFTEALANRILKSWPGLYKALNAT	120
PtSCL21	HLQP-SMADLVSARQVFFTLFPYLKFAFNTVHLTILESMKEKVVHIIDLDASEAAQWIP	155
AtSCL3	QTRTNNVSEEIHVRRLFEMFPILKVSYLLTNRAILEAMEGKMOVHVIDLDASEPAQWLA	180
PtSCL21	LLQSLSRPPEGPPHLKMTGINEKKEVVQQTAAAILTEEAERLDIPFQFNQLVTRLDRLLTDD	215
AtSCL3	LLQAFNSRPEGPPHLRITGVHHQKEVLEQMAHRLIEEAEKLDIPFQFNPVVSRLDCLNVE	240
PtSCL21	MLAVKTGEAVAI SAVLQFHALLAEDQDFDHNFGGGGGGGGGGGGGGGGGGGRVGINRKRP	275
AtSCL3	QLRVKTGEALAVSSVLQLHTFLASDDDLMR-----KNCALR	276
PtSCL21	RQSC TTLGDEDLILRSMENMEALVKKKEG SVGRPKYSPSEIEAAISSRRPNLEAAGARSNV	335
AtSCL3	FQNNPSGVDLQRVLMMSHGSAAEAARENDSMNNNGYSPS-----GDSASSL	321
PtSCL21	EEVRNGRRSTIVEGNIERFLRMLRGLSPKVMVVVEQESNHNGEHLMDRFVEALYYYSAMF	395
AtSCL3	PLPSSGR-----TDSFLNAIWGLSPKVMVVTEQDSDHNGSTLMERLLESLEYTYAALF	373
PtSCL21	DSLESTLPRQSIERTVVEKYLFGKQIHNIVACEGSERVERHEKLGQWMKRLDRTGFAQLP	455
AtSCL3	DCLETQVPRTSQDRIKVEKMLFGEEIKNIIISCEGFERRERHEKLEKWSQRIDLAFGNVP	433
PtSCL21	LGYTLLHANNLLHTYTSHSYRLLHHEGCLTICWEERPLYSVSAWQSA- 503	
AtSCL3	LSYYAMLQARRLLQCGFDGYRIKEESGCAVICWQDRPLYSVSAWRCK 482	

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# DELLA

PtSCL14	MDPMEERAAKVLGSSP-----	15
PpSCL15	---MKRQHFRLQQQQQPQPNGHGRCSTVPVHFNPVSMPGSGPPPPSPRTTATAPAAGAA	57
AtGAI	---MKRDHHHHHQD-----	11
OsGAI	---MKREYQEAGSS-----	12
PtSCL14	-----GHKNMMGCSSSGVKIEPEIDGLLANAGYTVKASDLAHVAQRLEQLESI	63
PpSCL15	AAGGGGGSGSCKGKEVVLKDTST---KCGVGVDMELASMGYSVKSSSELEQVAHRLEQLEMM	114
AtGAI	-----KKTMMMNNEE---DIDGNGMDELLAVLGYKVRSSSEMADVAQKLEQLEVM	55
OsGAI	---GGSSADMGSCKDKVMAGAA---GEEDVDELLAALGYKVRSSDMADVAQKLEQLEMA	67
PtSCL14	MGT-----VQ---DPGISHLASEAVHYNPSDLAGWIESMFGEINFG---ADMPVVPFGDRGS	113
PpSCL15	MCN-----GQE-DGIIISHLSEAVHYNPSDLGGWIESMLSELHVPILPPTDQPFQFPQA	167
AtGAI	MSN-----VQEDD---LSQLATETVHYNPAELYTWLDSMLTDLNFP-----	93
OsGAI	MGMGGVSAPGAADDGFVSHLATDTVHYNPSDLSSWVESMLSELNAPLPPIPPAPPAARHA	127
PtSCL14	LIDSSQVHKPIQDDPPLSAMDIALIHEYGLQ-----	144
PpSCL15	AADQSSTVREASNSVPESSSTSTSKGTRSVQNV EQDQYRLMGPQGQGVVDNGIDRMFSNY	227
AtGAI	-----SSNAEYDLK-----	102
OsGAI	STSSTVTGGGGSGFFELPAAADSSSSTYALRP-----	159
PtSCL14	-----FNGSQASNPQGFSPDSDPSVRCNIFSGPPLRSGDSTTHTNFQARSFSAQSS	195
PpSCL15	GGLFSQVLDVSDLLVDDPDVLQEPPEASPTLLLQSSSNSSLEVQSGLDHLEEDVTGR	287
AtGAI	-----AIPGDAILNQFAIDSASSN---QGGGGDTYTTNKRLKCSNG-----VVETT	146
OsGAI	-----ISLPVVATADPSAADSARDTKRMRTGGGSTSSSSSSSSSSSLGGGASRGSVVEAA	212
PtSCL14	DEGSSLSSTRLGTAQQSIDN--GAQESGIRVVHLLMGCAEA	
PpSCL15	EQKRYRVCDPQLSERTVVVVMGADPHESGVRLVHTLMACAEA	
AtGAI	-----TATAESTRHVVLV--DSQENGVRLVHALLACAEA	
OsGAI	PPATQGAAAANAPAVPVVVV--DTQEAGIRLVHALLACAEA	

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# HAM

PtSCL12	MNGMLSRTSGNSLPPAQLKHQILOSKT-----SPDQAQKRHCKSSVWQ	43
PtSCL13	---MLDRN--TETRPPLLNLKLVQSSS-----IPAQANNKR-----P	32
PhHAM	---MIAIPQGAKGVLGVSSFMPSISSEEQICKKDANFARNDPQICKKDGNFARNEPQICK	57
AtSCL6	----MPLPFEFQKGKGISCFSSFSSS-----FPQPPSSPLLSHRKARGGEE	42
AtSCL22	----MPLPFEQFQKGVLGFLDSSSSP-----GYKIWANPEKHLHGRVEEDLCF	44
PtSCL12	RSRSGGEIEPTSVLDIRSPSPTSTLSSSLGGSSSESAGAVAAVSSGLLCEAVSDGGGGGSG	103
PtSCL13	YVRSEYQSEPTSVLDIRSPSPTSTLSVSFGGSTD-----GGFFRENACDG-----	77
PhHAM	KEGNFTRNEPVSVDLTRSPSPSSSSCSYAGKVEG-----	91
AtSCL6	EEEEVPAAEPTSVLDSLIS-SP-----TSSSTVSSS-----	71
AtSCL22	VVNNGGFSEPTSVLDSVRSPSPFVSSSTTTLSSS-----	78
PtSCL12	SGGAETLLLEFSSGKEAFNNGGGSTGSPARWYSNRGGSGNGGREGFGWRLNNGEQQPGGGG	163
PtSCL13	-----QLLDCIGVMSKDGGN-----WQLQN-----	98
PhHAM	-----	
AtSCL6	-----	
AtSCL22	-----	
PtSCL12	MVEGKSEVKKEDPQQHSRAEEWGSSGGGAGTAGMDDLESMLFESGAAPPIQSLMRWLL-G	222
PtSCL13	-----VIRNENEFQVAETEAVNVN--PNVSMGMEYLENILLQS-PEGNNNSHIPCLM-G	148
PhHAM	-----QKEELVKELQPFPLVGLPEKCSLGFGLDNLPLP-E-LCGADQTLRWIS-G	140
AtSCL6	-----HGGNSAVGGGGDATIT--DEQCGAIGLGDWEEQVP--HDHEQSIILGLIM-G	116
AtSCL22	-----HGGPSGGGAAAATFSGADGKCDQMGFEDLDGVLSSG-SPGQEQSIFRLIMAG	129
PtSCL12	EIEDP-KDLPPPQIKSATSG-GSTSAPOFVDPSIEPNFA---DPGAFAFSNNNLSVDIAP	277
PtSCL13	EPCLMGNEYPLQGIKAEAVLQQTHFNEATDSQLSEFFCGNSDIGPYSFFGDNAGHTISP	208
PhHAM	DMEDPSVSLKQLLLGGNANGFHGSSGFEASAAGSLVHTDNVSESGSDVSLNANIEKIGSV	200
AtSCL6	DSTDPSLELNSILQT-----SPTFHSDSYSSPGFG--	146
AtSCL22	DVVDPSSEFVGFDIG-----SGSDPVIDNPNFLFGYG	161
PtSCL12	PQHASVPSSFRPSYATLPNLPPQQCFIPPPPPPPPPPPPPFAFYNGMPTPFGPNAYHPEVL	337
PtSCL13	FALNPTSTALFP-----PSNALITPNIHGNPPPLSFTPD-FKTFKVPLDEKHPELQ	259
PhHAM	IDSNGRPSNGFD-----YLNANLYAKSLPLPPASSFQEQKLGQKQPSFSPNQA	248
AtSCL6	-----VVDTGFLDHHVPPSH-----	163
AtSCL22	FPFQNAPEEEKF-----QISINPNPGFFSDPPSS-----	190
PtSCL12	FSGPAVYGSNPVQHLGPDFPRFNMAADPNRNNNNLLFDMPHPPPKRFRGLEHQLWQOTFK	397
PtSCL13	LP---YGNP-----PSYP-----EKNVVFMPAAPRG-HVGVAHEGFPEFEK	297
PhHAM	LFQNASYGNM-----FDSSSYDDTNQEQPPSKRHNSGTLGSSVGGI	289
AtSCL6	-----VSGLLINQSQTHY-----	176
AtSCL22	-----PPAKRLNSGQPGS-----	203
PtSCL12	QQEYMNMMKPPQQQELLOSLHR--RQOFLHQAPPPSPHHQMRQKAVVNHTFKVGG---SG	452
PtSCL13	SLHWQQTQQREFQPAWKTMINRSVRDPLFSAVKQEWPGRTHQGRVDLDEVQKS-----	350
PhHAM	LPKVFFFDPSGDLSMRRQLIGEMQHFNLLPPQQFQPKPLIVPKLEAACCGGNGSLMVPR	349
AtSCL6	-----TONPAAIFY---GHHHTPPPAKRLNPG-----	201
AtSCL22	-----OHLQWVFPFSDPGHESHDPFLTPPKIAGED-----Q	234
PtSCL12	AVADEVHVIVEQLLKAAEA	
PtSCL13	-----AILQQLLNATNY	
PhHAM	HQQEQQFIYDQIFQASEL	
AtSCL6	-----PVGITEQLVKAEEV	
AtSCL22	NDQDQSAVIIDQLFSAAAE	

# LsLS

PrSCL2 MSMGGVNMNMNMSPWLSAPFAWQHDGLMSFPPGICTDVVGDLCSTTTNSYLSEPNVLDL 60  
LsLS -----  
AtSCL4 MAYMCTDSGNLMAIAQQVIKQKQQEQQQQQHHQDHQIFG----INPLSIINPWPNTSLGF 56  
OsMOCI -----

PrSCL2 SRASMLFSPMEQFQDFTQHLHDGIGAKQMPLLLGGVEPPAPAFKDNALYHHEALVKKERPP 120  
LsLS -----  
AtSCL4 GLSGSAFP-----DPFQVTGGGDSNDPGFPPFNLDHHHATT----- 92  
OsMOCI -----

PrSCL2 IKEPGVGDGSSAALRSVFRSPELHTFGFESPVSNRNDFVSPDVCTEWMDCLMSDLQPEA 180  
LsLS -----  
AtSCL4 -----TGGG-----FR---LSDFGGG---TGGGEFES-----DEWMETLIS----- 122  
OsMOCI -----

PrSCL2 IAGNGNAAIASCFDSSNPCESTESSELPNGGSGYRRHSSEDAAAWQSEFGILGEAFKRS 240  
LsLS -----  
AtSCL4 -----GGDSVADGPD-----CDTWHDN-----PDYVIYGPDPFDY 153  
OsMOCI -----

PrSCL2 PLSWTPTDTTTEQLLCSSPSADLLSAASSELLSTNSLKGKAALOEQYGAAGGGHEFOTLH 300  
LsLS -----  
AtSCL4 PS-----RLSVQPSDLN-----RVID 169  
OsMOCI -----

PrSCL2 HRMPNVHQSVCPKQQLIREPSTPPQKRQOQQEQDPLKGRKREEDPPKPEIDALDRHMQG 360  
LsLS -MLGSFGSSSSQSHPHHDEESSDHHQORRFTATATTIT-TTTITTSPIAQ----- 48  
AtSCL4 TSSPLPPPTLWPPSSPLSIPPLTHESPTKEDPETNDSEDDDFDLEPP----- 216  
OsMOCI -MLRSLHSSSSSDTDNNSGGCKNNGGGGGEAAAAVEGGDQRAVAAAAPS----- 49

PrSCL2 QRSDLLHSLLDCAKIVDTEPERAGQS--VAYLQRIASHHGDPQRIASHFADALAKRLSK 418  
LsLS ----IRQLLISCAELISQSDFSAAKR-LLTILSTNSSPFGDSTERLVHQFTRALSLRLNR 103  
AtSCL4 ----LLKAIYDCARISDSDPNEASKT--LLQIRESVSELGDPTEVAFYFTEALSNRLS- 269  
OsMOCI ----TRDLLLACADLLQRGDLPAARRAAEIVLAAAASPRGDAADRLAYHFARALALRVD- 104



# AtSCL26

AtSCL26 -----MNPYPYEDFLDLFFSTHTDP----- 19  
PtSCL11 MVSRLQSPSPSCCKATMSTISYNSHAPSFQFYONPSSDWLLHNKAMDIQSHHQHQQFLFWE 60  
PtSCL116 MEAGMQGASWFSEH-QWDHIFDSPPHVDWDSNTTTT 35  
PtSCL19 METGMAGTPWLSEQ-VWDHIFYNPPHADWYGNTNTHSAA 38  
PtSCL22 -----MGSMEDGT-GTSWFSEQFDWDHVFTSLPQVDWDTNSA----- 36  
PtSCL23 -----MQETGMGSYNSWFSEQ-EWDHVFSSNNPPDGGITYDVAE 37  
PtSCL24 --MWNMGSSMEAAT-GASWFSEH-QWDHVFDNPPHVDWDTNTTTT 41  
PtSCL25 -----MCGVEDGTGTTLFSEK-DW-HY--SLLDVDWDTNSP----- 32  
PtSCL26 ---MSSVSSMEAGS-GTAWFSEL-ELDHLFTSLPHEDWDSNSA----- 38  
PtSCL27 -----MAASWFCEQ-EWDHIFNLLPPVDSDTDTNYT 30  
PtSCL28 -----MEATMAAAWFCEQ-EWDHIFNLLPPVDWDTDTNNT 35  
PtSCL29 -----MEAAT-GASWFSEE-DLDHIFNTLPRVDWHTNSPST 34  
PtSCL30 -----MEAGM-GASWLSEY-HWDHLFDNPP---HVDTPST----- 30

AtSCL26 -----LATAASTSSNGYSLNDDL-IDW----- 35  
PtSCL11 PTPLLPANHKLNPFTAFPPPTSLESIELSKSDADYTSLWESRQIDQKQHISALILRASERD 120  
PtSCL116 -----QSVAVEQLDVLDAIDWLS-WHDLIID-----INASSVN 69  
PtSCL19 -----AAAAEEQMDVLDAAECPS-WGDLIINK-----SNGCTVN 72  
PtSCL22 -----AVEQLDVLDTAQWSP-WDDLIVDD-----NH----- 62  
PtSCL23 -----GEQLMDVLDLDAPEWSS-WDDLIDVD-----INGCSGD 69  
PtSCL24 -----QSTAV---DVLDAVDWSS-WDNLIIDH-----VNGCSVN 72  
PtSCL25 -----AVELPDVHLDAQWSS-LDDLIVDD-----NHGCSFN 63  
PtSCL26 -----ALGHLHMDLDGAQWSS-WDDLIPD-----NNGCSVN 69  
PtSCL27 -----PSTPVQQLGADLDAVDWLS-WDDLIDN-----GCSLN 61  
PtSCL28 -----PSTPVQQLGADLDAEWSS-WHDLIID-----DCSLN 66  
PtSCL29 -----AVEELM---DVELDTAEWSS-WDDIIDH-----NNGGSFS 66  
PtSCL30 -----ALQQL---EVVFDAEWAS-WDDLFIN-----GCSVN 58

AtSCL26 -----DCDFRDVIESIMDEGAMMEPE-----SEAVPMLHDQ-----EGL 75  
PtSCL11 YLENKVDFCDNVSSTVTDEKYVLDGLYQGFDEEGGIVPSKAFGELPFPPFFDDGIDVISF 180  
PtSCL116 N-----MSLPADLQAMEEYLMDAELQDDNNN-----MEEALISSPRKDAI-VFQSP 114  
PtSCL19 ND-----QTLPADLQAIREYLLDEEVQDYDSN-----IQED--PSPGRDASDPVKNS 117  
PtSCL22 -----SLPTELQVIGEHEVIDIDLQEDDNK-----IEEYSSISRRRDAN-VFQCP 105  
PtSCL23 TSNSNPSPNPSLPANLQAIIEHLMDELQDVNNN-----FQEDAVSCPRIDDAIVANSS 123  
PtSCL24 N-----LSLPADLPEMGAHLMDAELQNDNNN-----SEEDLISSPRKDAI-FFRPP 117  
PtSCL25 N-----LLLSTELEAAGEYLIDARRRDDNNN-----IEEDPIWRPOIDPI-FFOCP 108  
PtSCL26 K-----LSLPTDLLAIEKYLKYTDVQDDNIN-----IEEDPISSPRSDAN-VLQIP 114  
PtSCL27 N-----VSLPADLQTIIEEYLMDEGLQDDSDN-----MEQDLISSPTNDAMTVFQCP 107  
PtSCL28 N-----LSLPADLQTIIEEYLMDELQDDSDN-----MEQDLISSPTNDAMTVFQCP 112  
PtSCL29 N-----LPLPADLKTIEEYLMDELHDGYNN-----EEDNLISSPPKDAI-VFQCP 111  
PtSCL30 N-----LSG-----EYLMDAELQDESNN-----IEEDHILSHRKDTI-IFQHT 95

AtSCL26 CNSASTGLSVADG-----VSFGEPKTDESK 100  
PtSCL11 LGNTQNPCSPSDHSEAVGSIGSCSSASLNSIDKFGNEFVLRDEYPSEFEAVLGLQVPLLG 240  
PtSCL116 IDSTDAITLRHPALIAGDQLVS-----KSIVTGNTCSYSVDVDHGS---VEYK 159  
PtSCL19 GPKAGDQLLSDTGLVTNSSSESKSNETEKLK--SGSGSGSGSSSVEVDDGALKDSEYK 175  
PtSCL22 INNEY-PAALIAA---NQPLS-----YSGPPSVDVDHGALEDMEYK 142  
PtSCL23 CKSIETDNAGSSS---VDIDHAG-----SHENRASKDLKTIS--EVEYK 162  
PtSCL24 IDSTDPVTLQHPALIAGDQLVS-----KSTVTDNTGSSSVDVDHGS---VEYK 162  
PtSCL25 VDELHHPAALIAA---DRSLSD-----FAVVTNKSVPVSLIDHGAFEETEYK 153  
PtSCL26 IDNEHPAEDQLFS---GSAHV-----VTNKGDTSSLNIDHGSLQDMECN 155  
PtSCL27 IDSSADLVTPEHP--AGDQLVQT---NSSSSESKSMERHNAGSSSVDVSDSS---LEYK 158  
PtSCL28 IDSSADPVTLEHP--AGDQLVQT---NSSSSESKSMVTDNPGSSSVDVSDGS---LEYK 163  
PtSCL29 VDSTDPVNFDOPTLITGDQLVSDYAVTNSSS--ELKSIVTENAGLSSVDVDHGS---VEYN 167  
PtSCL30 IDSADTITSEQSGVIPRDQLVSDYTATDSS--RSESIAPNKADSSSVDVDHGS---VEYK 150