

Accessory Publication

Table S1. SSL proteins sequences used for phylogenetic analysis

Protein sequences were obtained from the following sources: *Arabidopsis* (<http://www.ncbi.nlm.nih.gov/> or <http://compbio.dfci.harvard.edu/tgi/cgi-bin/tgi/gimain.pl?gudb=arab>); poplar (http://genome.jgi-psf.org/annotator/servlet/jgi.annotation.Annotation?pDb=Poptr1_1); rice (<http://rapdb.dna.affrc.go.jp/tools/blast>); *Aureococcus anophagefferens* (<http://genome.jgi-psf.org/annotator/servlet/jgi.annotation.Annotation?pDb=Auran1>). Other sequences were from National Center for Biotechnology Information (NCBI; <http://www.ncbi.nlm.nih.gov/>). Signal peptides were predicted by <http://www.cbs.dtu.dk/services/SignalP/>

Name	Accession number	Mature protein sequence (secretion signal removed)	Representative SSL in tree (Fig. 2b)
AtSSL1	At2g41300	EYKINADQSENSNVGRFGGNYGRLGRLSGSIHHWTGEYRGGLEKRPNHS EDNPPSRGWTGEPGLDPRGEGPYVGVTDGRILKWSGEDLGWIEFAYSSPHRKNCSSSHKVEPACGRPLGL SFEKKSGLDYFCDGYLGVMKVGPKGGLAEKVVDEVEGQKVMFANQMDIDEEEDAIYFNDS SDTYHFGRD VFYAFLCGEKTGRAIRYDKKTKKAKVIMDRLHFPNGLALSIDGSFVLSCEVPTQLVHRYWAKGPNAGTR DIFAKLPGYADNIRRTETGDFWVALHSHKKTFFSRLSMIHPWVGKFFIKTLKMELLVFLFEGGKPHAVAV KLSGKTGEIMEILEDSEGKNMKFI SEVQERDGRLLWFGSVFLPSVWVLDLDRQ	
AtSSL2	At2g41290	EGPKHGGESMLTVQIPDFRLIPTTGALGPESFVFDFFGDGPYTGLS DGRIVKWLANESRWIDFAVTTTSAREGCEGPHEHQRTTEHVCGRPLGLAFDKSTGDLYIADAYMGLLKVGP TGGVATQVLPRELNEALRFTNSLDINPRTGVVYFTDSSSVYQRRNYIGAMMSGDKTGRLMKYDNTKQVT TLLSNLAFVNGVALSQNGDYLLVETAMCRILRYWLNETS VKSQSHDNYE IFAEGLPGFDPDNIKRSPRG GFWVGLNTHKSKLTKFAMSNAWLGRAALGLPVDWMKVHVSVMARYNGNGMAVRLSEDSGVILEVFEGKNE NKWISISEVEEKDGTLLWVGSVNTPFAGMYKI	

AtSSL3	At1g08470	SISKFPDFKTYKIDMPPLSSLPKERDRQNLLQNSEIRFLNEVQG PESIAFDPPQGRGPYTGVDGRILFWNGTRWTDFAYTSMNRSELCDPKPSLLDYLKDEDICGRPLGLRFD KKNGLDYIADAYLGIMKVGPEEGLATSVTNEADGVPLRFTNDLDIDDEGNVYFTDSSSFFQRRKFMLLI VSGEDSGRVLKYNPKTKETTTLVRNLQFPNGLSLGKDGSEFFIFCEGSI GRLRKYWLKGEKAGTSEVVAL LHGFPDNIRTNKDGDFWVAVHCHRNIFTHLMAHYPRVRKFFLKLPI SVKFQYLLQVGGWPHAVAVKYSE EGKVLKVLEDSKGGVVKAVSEVEEKDGKLMGMSVLMMSFIAVYDLP	
AtSSL4	At3g51420	ITLYQLDSFEPASLPADSLITSPTSIPPLLNDRFLTGAEFIGVGLLNN PEDIAYHKDSNLIYTGCVDGWVKRVSVDHSANDSIVEDWVNTGGRPLGIAFGLHGEVIVADANKGLLSI SDGGKKTPELLTDEADGVRFKLTDVAVTVADNGVLYFTDASSKYDFYQFIFDFLEGKPHGRVMSFDPTTRA TRVLLKDLYFANGISMSPDQTHFVFCETIMRRC SKYYISEERVEVF IQGLPGYPDNIRYDGDGHYWIAL ISEVTTSWKLSMKYFLRKL IYMAAKYGVVELLSIKNAAVLQVDLDGNPIAMYHDHPF SHITSGVKIGNH LYFGSLLHSYITRLDLLKYP AQKKL	
AtSSL5	At3g51430	LYQLDTFDPAPVPSEAYASSTTSIPPLISDKYLTGAEFIGVGLL DK PEDIAYHQDSNLIYTG CIDGWVKRVSVDHSANDSVVEDWVNTGGRPLGIAFGVHGEVIVADAYKGLLNI SGDGKKTPELLTQAEGVKFKLTDVVAVADNGVLYFTDASYKYTLHQVKFDILEGKPHGRLMSFDPTTRV TRVLLKDLYFANGVSMSPDQTHLIFCETPMRRC SKYYINEERVEVF IQGLPGYPDNIRYDGDGHYWIAM VSGASTLWRLSMKYPFLRKITAI AAKYGVELMFMKNAGVLQVDLDGNPIAAYYHDQRLSHITTGKIGNY LYCGNILHSYIIRLDLLKYP AQKKL	
AtSSL6	At3g51440	ITLYQLDTFDPAHHPADSLISSTASIPPLINERFLTGAEFIGVGLLNS PEDIAYHEDSGFIYTGCVDGWVKRVKVAESVNDLVEDLVNTGGRPLGIAFGIHGEVIVADAYKGLLNI SGDGKKTPELLTTEADGVRFKLPDAVTVADNGVLYFTDGSYKYNLHQFSFDILEGKPHGRLMSFDPTTKV TRVLLRDLYFANGVSLSPDQTHLVFCETPIRRRC SKYYINGGRVELFIQGLPGYPDNIRYDGDGHYWIAM PSGVTTLWKL SMKYPFLRKITAMA AKYGYEPMFMENAGVLQVDLDGNPIAAYYHDQALSHITTGKIGNY LYCGSLWHSILRLDLLKYP AQKKL	
AtSSL7	At3g51450	KLDTFDP AIVPSDAFTSSATSLPPLINDEF LTGAEFIGVGLLNI PEDIAYHKE SNLIYTGCVDGWVKRVK VADSVNDSVVEDWVNTGGRPLGIAFGIHGEVIVADVHKGLLNI SGDGKKTPELLTDEADGVKFKLTDVAVTVADNGVLYFTDASYKYTLNQLSLDMLGKPFGRLLSFDPTTRV TKVLLKDLYFANGITISPDQTHLIFCETPMKRCSKYYISEERVEVFTQSLPGYPDNIRYDGDGHYWIAL PSGVTTLWNISLKY PFLRKL TAMVAKYGV DLMFMENAGVLQVDLDGNPIAAYYHDPKLSHIATCDKIGKY LYCGSLSQS HILRLDLLKYP AQKKL	
AtSSL8	At3g57010	PDNLKGTKHVLQDAKTIPLPVDGPESLEFDPQEGEPYV	

		GVTDGRILKWRGEEELGWVDFAYTSPHRDNCSSHEVVPSCGRPLGLSFERKTGDLYICDGYFGVMKVGPE GGLAELVVDEAEGRKVMFANQGDIDEEEDIFYFNDSSTDYHFRDVFYVSLSGTKVGRVIRYDMKKKEAK VIMDKLRLPNGLALSKNGSFVVTCESSNTNICHRIWVKGPKSGTNEVFATLPGSPDNIRRTPTGDFWVAL HCKKNLFTTRAVLIHTWVGRFFMNTMKMETVIHFMNGGKPHGIVVKLSGETGEILEILEDSEGKTVKYVS EAYETKDGKLLWIGSVYWPVWVLDTSVYDSI	
AtSSL9	At3g57020	TLIVPENLEGAKNVLTMAKTIPIPVAGPESIEFDPKGEOPYAA VVDGRILKWRGDDLGWVDFAYTSPHRGNCSTEVVPTCGRPLGLTFEKKTGDLIICDGYLGLMKVGPEG GLAELIVDEAEGRKVMFANQGDIDEEEDVFYFNDSSTKYHFRDVFVAVSGERSGRVIRYDKKTKEAKV IMDNLVCNGLALNKDRSFLITCESGTSLVHRYWIKGPKAGTRDIFAKVPGYPDNIRLTSTGDFWIGLH CKKNLIGRLIVKYKWLKGLVEKTMKLEYVIAFINGFKPHGVAVKISGETGEVLELLEDKEGKTMKYVSE AYERDDGKLLWFGSVYWPVWVLDLDRK	
AtSSL10	At3g57030	ILVKNSTGSGIFAPPEISGSRDVFPSAKVVNLTGASGPESIAFDPAGEGP YVGVSDGRILKWRGEPGLWSDFAHTSSNRQECARPFAPLEHVCGRPLGLRFDKKTGDLYIADAYFGLL VVGPAAGLAKPLVTEAEGQPFRTNDLDIDEQEDVIYFTDTSARFQRRQFLAAVLNVDKTGRFIKYDRS SKKATVLLQGLAFANGVALSKDRSFVLVVETTTCKILRLWLSPGNAGTHQVFAELPGFPDNIRRNSNGE FWVALHSHKGLFAKLSLTQTFWRDLVLRPLISPQRHLSLFTGGIPHATAIKLSESGKVLEVLLEDKEGKT LRFISEVEEKDGKLLWIGSVLVPFLGVYDL	
AtSSL11	At1g74000	TKKSSFQKLPVPGNRTGPEAFDSTGKGFYTGVTGGKILKYLPKKG YVDFAQITNSSKSSLCDGALGTTNVEKCGRPAGIAFNKTGDLYVADAALGLHVI PRRGGLAKKIADSV GGKPFLLFDGLDVPDPTTGVVYFTSFSSTFGPRDVLKAVATKDSTGKFFKYDPSKKVVTVLMEGLSGSAG CAVSSDGSFVLVQFTKSNIKRYWIKGSKAGTSEDFTNSVSNPDNIKRIGSTGNFWVASVVN SATGPTN PSAVKVSSAGKVLQTIPLKDKFGDTLVSEVNEYKQLYIGALFGPFAGILKL	
AtSSL12	At1g74020	DDASFQKLPVPESTRSGPEAFDSTGKGFYTGVS GGKILKYL PETGY VDFAQITESSNSSWCDGTIGTALAGRCGRPAGIAFNEKTGDLYVADAPLGLHVI SPAGGLATKITDSVD GKPFKFLDGLDVPDPTTGVVYFTSFSRFSPIQVLI ALGLKDATGKLYKYDPSTKVVTVLMEGLSGSAGC AVSSDGSFVLVVSQFTKSNIKRYWIKGPKAGSSEDFTNSVSNPDNIKRIGSTGNFWVASVVNKIIVPTNP SAVKVNSNGEVLQTIPLKDKFGDTLLSEVNEFEGNLYIGTLTGPFAGILKLEKGS CPAT	
AtSSL13	TC287152	FHMSPIGGREFKPVKHEVAPYKEVMGSWPRDNL SR LGNHGKLEFVDQVFGPESLEFDSLGRGPYTG LADGRVVRWMMGEAIGWETF SVVTSKWSEEACVRGVDST TNKQWKHEKLCGRPLGLRFHKETGNLYIADAYYGLLVGPEGGIATPLATHVEGKPI LFANDLDIHRNG SIFFTDTSKRYDRANHFFILLEGESTGRLLRYDPPTKTTHIVLEGLAFPNGIQLSKDQSFLLF TETTNC	PtSSL8

		RLVKYWLEGPKMGEVEVVADLPGFPDNVRINEEGQFWVAIDCCRTPAQEVLTNNPWIRSIYFRLPIPMLLAKTMGMRMYTVISRFDDEEGKVLEVLLEDROGKVMKLVSEVREVQGLKWIGTVAHNHIATLPYPLTMNQ	
AtSSL14	At1g74010	DDASFQKLPVPDKRSGPESFAFDSTGGFYTGVSQKILKYVPGKGYVD FAQITDSSNSAWCNGALGTAFAGKCGRPAGIALNSKTGDLYVADAPLGLHVISPAGGLATKLDASVDGK PFKFLDGLDVPDPTTGVVYFTSFSSKFGPREVLIAVGLKDASGKLFKYDPATKAVTELMEGLSGAAGCAV SSDGSFVLVSEFIKSNIKKYWIKGPKAGTIEDFSSLVSNPDNIRRVGSTGNFWVASVVNKVVMPTDPRA VKLDANGKVLQTIIFLKNEFGNTLLSEVNEFNHLYIGTLTGPFAGVMKL	
AtSSL15	At5g22020	LYCSIDPFHHCASDFPNFVSHEVISPRPDEVPWERDSQNSLQKSKILFF NQIQGPESVAFDSLGRGYPYTGVDGRVLFWDGEEKWIDFAYTSSNRSEICDPKPSALSYLNEHICGRPLG LRFDKRTGDLYIADAYMGLLKVGEGLATPLVTEAEGVPLGFTNDLDIADDGTVYFTDSSISYQRRNFL QLVFSGDNTGRVLKYDPVAKKAVVLSNLQFPNGVVISRDGSFFVFCEDIGSLRRYWLKGEKAGTTDVF AYLPGHPDNVRTNQKGEFWVALHCRRNYSYLMARYPKLRMFIILRLPITARTHYSFQIGLRPHGLVVKYS PEGKLMHVLEDSEKVVRSVSEVEEKDGKLMWMSVLMNFVAVYDL	
DmHmu	NP_477159	LPPRTTFFPKDYIVTPPKDLKGALESNFHLEGAERLLEGRVYG PECLIARNNEIYTGIIHGGEVIKLTSNHVTHVTKIGQPCEDIYEESRCGRPLGLAFDTQGNLIIADAYY GLWQVDLGTNKKTLVSPAQELAGKSINRPAKIFNGVTVSKEGDVYWTSSSDFTIEDLVFASFANPSG RLFKYNRSKNVSEVLLDELAFANGLALSPNEDFIVVAETGAMRLTKYHLKGAQAGQSEVFDGLPGLPD NLTPDAEGIWVPLVQSADSEHPNGFTLFTFRFSPVRLFLARMLALFELPFYRLNSVYPNKFQSRFIHFVG HMESITVLPKRRTTVVRVDWNGNIVGSLHGFDKSAATISHVLEFQDFLFLGSPTNQYLARVKSPPKAKQP TLKVRNVRVEGEGLEASIGVPPSKATPKPKAAPSTTTTPKPTTTTTTTTTTPKPTTKTTTTTTTTPKPTTTTT TKKPTTTTTTTTTTPKPTTTKPTAKPSTTTTPTTTTPKPTTTTTPTTPTTPTPEPSKPKVKRTVPEKPA PVEEIPSDTQPPKKEKLVINKQGVNVEL	
DmSSL	NP_651656	FPFEQYFIKPARDLNGTLELNHNLNGARKLWKDQIFG PECLIVLEDKIYTGIIHSGEVIKLTSNHVNNEESVQPIITKIGQPCDYIFDDELGGYVGLALDTQGNLIVSDAY YGIWQVDLETKKKTVLVPAEQILPGKGANRRAKLFNSLVISRQGDIFWTDSEDFVFAAFANPSGRYD RVKKTNEVLLDELSEFANGLALSPSEDFIILAETAMRLRRYYLKGSRAGESEVFVEGLPGCPDNLTADE EGIWVPLSVASDSQNPNFLFAVLAPYPRLSFLARLVALMRLPLRVLNHIYPNDIAARLFHFSFNDLVIRN APKRSTVVRVDWNGNIVRSLHGFDRSASGISHVLEVKGHLYLGSFPNHVYAKVKLPEEGLKSVKGN	
RsSTR1	CAA44208	SPILKEILIEAPSYAPNSFTFDSTNKGFTYSVQDGRVIKYEY PNSGFVDFAYASPYWNKAFKCNSTDAEKRPFCGRTYDISYNLQNNQLYIVDCYYHLSVVGSEGGHATQL ATSVDGVPFKWLYAVTVDQRTGIVYFTDVSTLYDDRGVQQIMDTSKDTGRLIKYDPSTKETTLKELH	

		VPGGAEVSADSSFVLVAEFLSHQIVKYWLEGPKKGTAEVLVKIPNPGNIKRNADGHFWVSSSEELDGNM HGRVDPKGIKFDEFGNILEVIPLPPPFAGEHFQIQEHDGLLYIGTLFHGSVGLVYDKKGNFVSSH	
OpSTR1	BAB47180	SPEFFFEFIEAPSYGNAYAFDSDGELYASVEDGRIIKYDKPSNK FLTHAVASPIWNNALCENNTNQDLKPLCGRVYDFGFHYETQRLYIADCYFGLGFVGPDDGGHAIQLATSG DGVEFKWLYALAIQQAGFVYVTDVSTKYDDRQVQDIIRINDTTGRLIKYDPSTEEVTVLMKGLNIPGG TEVSKDGSFVLVGEFASHRILKYWLKGPKANTSEFLLKVRGPGNIKRTKDGDFWVASSDNNGITVTPRG IRFDEFGNILEVVAIPLPYKGEHIEQVQEHDGALFVGSLEFHEFVGLHNYKSSVDHHQEKNSGGLNASF KEFSSF	
CrSTR1	CAA71255	SPILKKIFIESPSYAPNAFTFDSTDKGFYTSVQDGRVI KYECPNSGFTDFAYASPFWNKAFKCNSTDEKRPKCGRTYDISYDYKNSQMYIVDGHYHLCVVGKEGGY ATQLATSVQGVPFKWLAVTVQRTGIVYFTDVSSIHDDSPGVEEIMNTSDRTGRLMKYDPSTKETTL LLKELHVPGGAEISADGSFVVVAEFLSNRIVKYWLEGPKKGSAEFLVTIPNPGNIKRNSDGHFWVSSSE ELDGGQHGRVVSARGIKFDGFGNILQVIPLPPPYEGEHFQIQEHDGLLYIGSLFHSSVGLVYDDHDNK GNSYVSS	
Ch.rSSL1	XP_001694117	TLNPTLPYPAQRFGFAHIDPATLPLDNSPLEGVYARNEVLRKAHKLFQDGI ASAETVAVSPEGNLTLVDKHGFVYEAEPATKVPVAVFTGEWALDLPATYYLGPGRPLGFHHAAGNLVIA DTLKGLIRLDRTTGAVELLTARVSADSALAPDTPLAYVNDLIDHDGTGVIYFTDSQSI PVYDPRETGTGY DTFQSYLLGFIGGDVAGRLCRYDPATLRDVLTLGLWFANGVALAADKSYVAVVETNRLRVHRYWLSGP KAGTSDLLIERLPGFDPGMSRAPDGNMWAIVAPVTGLPKLLSKVTRFLLAAYLPAWARPRI PRWGAALKI SPTGQPLQLLMDPDGSHIAFVSSVTEVAGRLYFGNVRMNYVSYLKDV	
PpSSL1	XP_001769001	WFLGTDPLEVSMGRGIVEFDPQHVPVPPPMHQFKNFPRDTQNKLOKGEVKWQGFQFLGPESLTFDSQGRGPYTG SDGRIVRYNGPQAGWSTFAYTSRNWSEACTPLSLTTPNHALEHVCGRPLGLRFHKGTTGELWIADAYLGIMK VGAQGGQAEVVLSEIDGVPMKFVNDLDFDNDGNLYFTDSSTHWQRQFLCLMEADDTGRFIKYNPTTKETEI LIDKLRFSNGVAVSKDGMFVLVAEGRLGRLRLRYVVKGGKAGTYEVFADLPGWPDNVRNEAGDFWIAFHCP KLEMILSRYP LLRTLIRLPISKNVYWMLAGKPHGMLMRYGPDGDFKEILEDQEGKVAKMLSEAEHDGKLY LGSVLLPQIVVYTTLENKS	
PpSSL2	XP_001762386	EWCWWLCGNVIWSPSTLPVGGHHSKCGSLILAQSDCKLGYQIHLIVDPLSAHSGRRRLERSRSEVLAWFLA SDPLEFSTLSGIDDFHAQYVALPPFNPLTKITPDAENKLQASAVIGTGDIFGPESIVFDAQGGKPYTGLSDGR IVCYDGPGLGWSTFATTSKNRLLRYWIKGPSANTWEVWIDLPGIPDNVRRNNNCEFWVGFHGKRTFVEMH SGAVPWFRHFVAKLP IPSNYLYKIVAPKAHALIVRYSPEGQVLEVLQDTGKVVVSEVEEHDGKLYIGTVL FPQIDIYTLPT	

PpSSL3	XP_001773641	NRKLECEVEKLGEGVLVGPEDVVVARDGSLVVATR DGWVKVWPRNGTVENWKR VGGYPCGLALGVHGEI LVADPLQGLLNVTD DDEVCITSTAE GTPITFPDSVTVSGKQIYFTDASTKHL LHFVHLDVLESRPHGRVLN FDPTTGR TTVLMKGLAFANGIALSPTEDFLVVCESWKYRCVRYWLEGEF KGTLET FIDNLPGLPDNIHLHAPS QTFWLGLVGGRSWLTDLTLKSALLKHFFAKFWHHVTPFNFERGELIAINLHGQVIVSYQDPRGARFSFATGAV IQDNYLYIGSLTEPFLGRLNL	
PpSSL4	XP_001766712	FYSYVDRKSPIDAVPIILAPFPKAEGVYAPNTLLQSVEKLG TGKLLQPEDIIVDP SGKFLYVSTSDGWIKKLY LADGSVEDWKHVGG RPLGLAVGNDGEVLVCEPSTGLLKVTDEGVEVLVTEVEGT KLN FVDAVAVAKDGLIYFT DASTKYPLDDFVLDNLESRPHGRLLVYNPEDKTSRILRKDLYMANGITLSKDDEYLVFAETVAARISKYYLKG NKKGSIEIINENLPGF PDNVHYDSERELLYIGIVGQRDAALDVFLKTPWLK KFVALYESVRGAVDNSNKMG RV LVIDNNGTPVKSYQDPTGKVVGF TGGVEVDGYVYVGG LRDDYVGRVKL	PpSSL3
PpSSL6	XP_001768837	VHNKLLHGLAKLGDGQLLQPEDMVADPTEMFLYTTNSD GWIKKYLSNGSVENWVNVGGRPLAIALGNE GEVLVCEPVQGHVQVDKLGTKELATEAGGIEFGLIDAVTVSSNGLIYFTDASTKHPLGTWHFDMLEGQVSGR IAVYNPEDKSTRVLLDELYFPNGIALSKSEDFHINCETTVARCMKFFLRGEKEGTIKTFIENLPGHDPDNIHRN LKNGRFYIGIPGNRNGLTDFVARTPVAKQILAFSPVLYKLLDMRKMGRVFEVDP SGKPLQVYEDPTGEVIGFV TTVVEVDWYLYVGGFRDSFAGRIKVH	PpSSL3
PpSSL7	XP_001759191	WDPPLIGPLAGLNF DWSNWNSSDIRPMLGINEWPCDPDNKLLQAQKLI LQDASGPESLAFDSTGAGPYTGVSD GRILRWGDDEARWHTFGVTSSIRTEVCDVHPPLVRNEPVCGRPLGLRFDKHDNLYIADAYFGLLVMGPPQGGVA KPVSTQAEGVPFRFVNDL DLDENGTVYFTDSSSRRPRSQCNIVTFEQDRSGRVLRYPKTQQTTVLARELFYP NGIAVSLDSSFMLLSHTSKSRIGKYWLKGP KLG TLEEF AEVPGFPDNIRRTKEGDFWVALHSRVTKLQNFLAN HWYLLRILYSLPLRFDFISWLT TGTDPAMVIKFNPNGEAIEAFEDRKGQNARLLSFADERDGVLMSSVFMPS IWTLP LNASAASHL	
PpSSL8	XP_001783026	DPLELSSLSGIEDFQAQYVAPPPYNPLSGISR DVESKLAQAEILGQGEIFGPESLAFDAQGNPFTGLSDGRI VRYDGP ELGWT SFATT SKNRS AICDYNHIPEAKLDYEHICGRPLGLRFDKRTGELYIADAYLGILKVGPPQGG L AEPVVTGFNGESFKLCNDLDFDEDEGNLYFTVSSTKYQRRQFFLSRLELDNTGRFFKYDPVSKETT VLIQGLRF PNGVAVSKDGTFFVIAESNMARLLRYWLKGP KASTWEVWMDLPGVPDNVRRNENGDFWVAFHNKRTFME MYTGALPWL RHLVAKLPISKYLYAM L APKPHALILRYSSEGQLLETLEDQPGKVVV VSEVEH DGKLYIGT VLFPPQVAMYALSSSA	PpSSL2
PpSSL9	XP_001783886	MGRGISHFNPQYVEPTPAHVFKDFPRDNQNKLQNGEIVGRGQFLGPESLTFDAQGRGPYTGVS DGRILR YDGP ERGWTTFAYTSKNRSEVCAPKTS LAPNF AFEHVCGRPLGLRFHKETGDLWIADAYLGILKVGPEGGHAE VVLNEIEGVPMKFLNDLDFDDEGNLYFTDSSTRWQRRQFLHSVMEADDTARFIKYNLATKEATV LIDHLRFSN	PpSSL1

		GVAVSKDGTFFVVAECRTGILWRYWLKGSKAGTHELFADLPGWPDNVCNEAGDFWVALHARRCWSEEFLLTKH PWIRYLIIRLPVPVQYVYKLLTGKPSGMILRYGPDGAVKEVLEDQEGKVVKMVSEVEEHDGKLYIGSVLLPYI VIYTLPPPATPATTPAEESTPLSSE	
PpSSL10	XP_001753951	EKLGEENLVWPEDLVLGPDGKFLYVSCAGSGWIKKHLADHSVEDWQHVGVPPLGLALGPDGEVLVADA LQGLVKVTDEGVEVLASEVDGSKITFADGVAVDRDGLIYLSDVSFKYNVSAHWFEFWEKPNGRLIVYDPKAK SSRLLLDNIYSPTGLTLTKDEDALIFTENVVARI TKYVVKGDKKGTMEIMNENLPGHPDNIHYNIDEGVYVVG IVGQRSALFDLIWKTFFLKKLVMVLP EAVRSLDAAARTARLLI IDDSGRALRQYQDPDAKAVGIVTGGIKVG DYLYVSSMKETFFVGR IKL	PpSSL3
PtSSL1	LG_VIII000978	MCDGSTNTKLEPVCGRPLGLKFNSATCDLYIADAYYGLLVGPEGGVATQLAASAEGVPPFRFMNALDVDS RTGVVYFTDSSIYFQRREYLLAIISADKTGRMLKYDPNSKKVTVLLKGLAFPNGVAISKDNSFILVAESFTMRI LKFYLVGSEIHGQETF IQLGRFPDNIKRTANGEFWVALNTGRGKIRRLDSTKLQOETS IDWFVDDPVAVRLTSG GKVVNVLDGNGGNALDSVSEVEEYSGLLWLGSSMKPYVGYIKNKK	
PtSSL2	gw1.VI.1078.1	KKVP IVGAFGPESFAFDSLKGKPYASLSDGRIVKWQGNRKGWTDFAVASPNRYACKQOPFAHTEHICGRPL GLCFDETHGDLYIADAYMGLLRVGTQGG LATKIVTHAQG IPLRFTNGLDIDQSSGAIYFTDSSSQYQRRQYLSV VLSGDKSGRLMKYDPV NKQVRVLLSNLTFPNGVALSKDGNFILLAE TTRCRILRYWIKTSKAGTVEVFAQLQGF PDNIKRSRGGYWVG MNSRREKLSSELLFSYPWIGNVLLKLPDIAMLQSTLSKYRGSGLAVR LSENGDILEVFE DNDGDGLKSI SEVMEKDGRLWIGSIALPFAGRY	
PtSSL3	gw1.XII.136.1	AFGPESIAFESPGGAFYTGVS DGHIFKYIXQPLTGWTVFAFTSPNRSVAFC DGTTPNKGPICGRPFGLAYNS FTRLLYIADAYYGLLVADSNGLAKQIATSAEQPFVFNHNAIDIDPVTGNVYFTDASAVYDLRSISAQVNDSTA RLLKYDPRTSQVTVLLRNL SRAVGLAVSPDGSFLLVSEAIGNRIRRYWLTGPKANTAEIFLSNINVVRPQNIKR TPSGGFWIAAASVK	
PtSSL4	gw1.V.3580.1	FTVLLTILSPVLVATLVFQLDSFEPAPLP IHELTPPLKALKKNDHMLQGSSELVGFQKLI GPEDIAYDSSSGVI YTSCADGWVKRVTINDSVADTIVE SWVNTGGRPLGLALGHDNEVI VADAFKGLLKI SGEKVELLADAEAGVKL KLTDAVDIAEDGTIYFTDASYKYNLLEFFWDFLEGKPYGRAISYDPVTKETKVL AHDLYFANGVAVSPDQQYVV FCETF IKYIQGKKKGSLETFIDNLPGLPDNIHHDGHGHYYIALASGITVALDLALKHPFLRKL MGIYTKYIGE INVVKNSGVFIVDLEGKPT EHYYPGLALISSGIRIGNHIYCGSVVSPYIVRLDVTKH PAR	
PtSSL5	gw1.I.9767.1	ILAGLFLLLTLYCGIDPWKQSAISGFPDFKSYKVE MPWSILPKEKDEENLLQRSEIKFLNQIQGPESMAFDPL GRGPYTG VADGRILFYDQKWTDFAYTSSNRSEICNPQPSPLSYLKNEHICGRPLGLRFDKKTGDLYIADAYFG LMKVGPEGGLATSLSNEAEGIPLRFTNDLDIDDEGNIYFTDSSSTTYQRRNFMQLVFSGENSGRVLKYNPTTKET TVLVRNLQFPNGVSLSKDGSFFVFCESIGRLRKYWLKGEKAGTSEVLAAILPGFPDNVRTNEEGNFVVAIHCRR	

		SFYTHINAQYPNLRFTFLKLP I PMKIQYLLQIGGWPHGLVVKYSPEGKLLQILEDSQGKVVKAISEVEEKDGKLMGWSVLMRFVGVYNL	
PtSSL6	gw1.XVI.1318.1	IPIVGAIGPESFAFDSLGEOPYTSLSDGRI IKWQGDKKRWIDFAVTS PNRDGC GGP HDH HQMEHVCGRPLGS CFDETHGDLYIADAYMGLLRVGPPEGGLATKIATHAQGIPFRFTNSLDIDQSSGAIYFTDSSTQYQRDYL SVVL SGDKSGRLMKYDTASKQVTVLLKNLTFPNGVALSTDGSFVLLAETTSCRILRYWIKTSKAGALEVFAQLQGFPD NIKRSPRGGYWVGINSKREKLSSELLFSYPWIGKVVLLKPLDITKFQTALAKYRGGGLAVRLSENGDIVEVFEDR DGNRLKSI SEVMEKDGKLVIGSIDLPFAGRFKL	PtSSL2
PtSSL7	eugene3.00150409	ESFRQIFLPPTGFGPESLAFESPGGAFYTG VNDGRVLRYPPTGSWTSFAITSPNRTIALCDGTTDPDKGPI CG RPLGLAYSPSTKLLYIADAYYGLFVADSNGR LAKQIATSAEQRFVACNALDIDPITGNIYFTDASAVYDLRNS SKALLANDSTGRLMKYDVRKNQVTVLLRNL SVAVGVAVSKDGGFVLVSEFVGNRIRRYWLTGRDAGTSDIFLSN LNIVRPNNIKRTSLGDFRIAAATVRQDSQTLVPIRVRVDEHGR ISETVSLEAQYGSTPISEVQQSGLSL YVSSRGVNFVGVYTP	PtSSL3
PtSSL8	LG_VII000152	FVIMDPFKMGPLGHDFKPVKHDLAPYKQVMENWPRDNKSRLGSGNLEFANEVFGPESLEFDSLGRGPYAGLAD GRVVRWVGEDVGVETFALVSTNWSEKLCARGVDSTTSKQWKHEKLCGRPLGLRFHKE SGNLYIADAYYGLLVVG PEGGLATPLATHVRGEPILFANDLDIHKNGSIFFTDTSKRYDRVDHFFILLEGESTGRLLRYDPPTKTTHIVLD GLAFPNGVQLSKDQTFVLVFTETTNCRIMKYWLEGPKTGKVELVANLPGFPDNVRLNEKGQFWVAIDCCRTAAQE VLTNNPWVKS VYFRLPIRMRYLAWLMGMKMYTVVSLFNENGEILEVLEDPKGVVMKLVSEVREVEGKLVIGTVA HNHIATLPYP	
PtSSL9	LG_XVI0104	LGPPTIPTSN DHLHSAKILHVSGAVGPESLVFDPNGEGPYTG VADGRVLKWIAGDDGSGSWTDFATTSSNRNEC VRPFAPEMEHCGRPLGLRFDKKTGNLYIADAYLGLQVVGPTGGLATPVVTELEGQPMRFTNDLDIDEQEDVIY FTDTSMVFQRRQF ILSLLTKDKTGRLKDYDKSSKEVTVLARGLAFANGVALSKDSTFLLVAETTTTCRILRFLH GPNAGKSDVFTELPGFPDNIRRNKGEFVVALHSSKGLFAKVVLSNSWIGKTLKFP LSFKQLHSLLVGGKAHA TAIKLSEEGKVLVDLEDCDGKTLRF ISEVEEKDGKLVIGSVLMPFLGTYNL	
Os01g0698200		QQIKTTDTRWSYHLPLPDGVSGAE SLAFDGDGLYTGVS DGRVLKWGGSAAAGWTTFAYNANYRKIPLCSSSEVP PEERESICGRPLGIRLFRKTGELYIADAYKGLMKVGPDGGEAQVVATEAD GVPFHFNLNGLDVDQATGDAYFTDSSTYTRRFNGEITMNADATGRLKDY ARTRRVTVLKTDL PYPNGVAVSRDRTHLVVAHTVPCQAFRYWLRGTKAGE YELFADLPGYPDNGGYWVALNQERMRLGAAPAAKHLVGVRLNPDGVEVEE LTAAGVTLSEVAEQKGLWLGSVELDYIGMFA	

Os03g53950		MVQGCRCEVVDACVREVRLASPYRIHQIFRFTTTPRRLALAHRGDTYKARDEGQCHWRDKA GSATRREGGESEGGERRRRRLMASPAVVAFAVAVAVAALAAFCGTDPLRTGSMVDFPGFV PHVVELPDASEMPPHADTRERLRGAEIFRFRGEVQGPESVAFDPLGRGPYTGADGRVVRW DGARWVYFAHSSPNWTAELCGHKASPLDYLKDEHICGRALGLRFRDRRTGDLYIADAYFGL LKVGPDGGLATPLATEAEGVRFNF'TNDLDDDDGNVYFTDSSIHYQRRHFMLVFSGDPS GRLLKYDPNTKKATVLRHNIQF'PNGVSMKDGLEFFVFCESRGRLSRYWLKGEKAGTVDL FAILPGF'PDNVRTNDKGEF'WVAIHCRRSIYARMVSRNVRLRKFLLSLPIPAKYHYLMQIG GKLHALIIKYNPEGEVLDILEDTTGQVVRVAVSEVEEKDGKLLWIGSVLMPFIAVFDYANAS	
Os03g0750700		DPFHLGPLAGVDYRPRRHELAPYR EVMARWPRDNGSRLRHGRLEFVGEVFGPESIEFDRHGRGPYAGLADGRVVRWGMEDAGWE TFAVMSPDWSEKVCANGVESTTKKQHEMERRCGRPLGLRFHGETGELYVADAYYGLMSVG PNGGVATSLAREVGGSPVNFANDLDIHRNGSVFF'TDTSTRYNRKDHLNVLLEGEGTGRLL RYDPETKAAHVLSGLVFPNGVQISDDQQFLLFSETTNCRIMRYWLEGPRAGQVEVFADL PGF'PDNVRLLSSGGGGGRFWVAIDCCRTAAQEVFAKRPWLRTLYFKLPLTMRTLGMVSMR MHTLVALLDGEGDVVEVLEDRGGEVMRLVSEVREVGRKLLWIGTVAHNHIATIPYPLEEQS SSNVLGD	
Os06g41830		ATARMFKTIDARRSQHLDLTGSLVGPESVAF DGKGGHPYSGVSDGRVMRWNGEAAGWSTYTYSPSYTNNKCAASTLPTVQTESKCGRPLGL RFHFKTGNLYIADAYMGLMRVGPGGGEATVLATKADGVPLRFTNGVDIDQVTGDVYFTDS SMNYQRSQHEQVTATKDDSTGRMLKYDPRTNQVTVLQSNITYPNGVAIGVDRTHLIVALTG PCKLMRYWIQGSKAGKSEPFALPGYPDNVRPDGKGGYWVALHREKYELPFGPDNHLVAM RVSAGGKLVQQMRGPKSLRPTEVMGEEGW	
Os06g41850		ATATTRMFKTIDARRSQHLDLGGSLVGPES VAFDGGKGRGPYSGVSDGRIMRWNGEAAGWSTYTYSPSYTKNKCAASTLPTVQTESKCGRP LGLRFHYKTGNLYIADAYMGLMRVGPKGGEATVLAMKADGVPLRFTNGVDIDQVTGDVYF TDSSMNYQRSQHEQVTATKDDSTGRMLKYDPRTNQVTVLQSNITYPNGVAMSADRTHLIVA LTGPCKLMRHWIRGPKTKSEPFDLPGYPDNVRPDGKGGYWIALHREKYELPFGPDSHL VAMRVSAGGKLVQQMRGPKSLRPTEVMERKDGKIYMGNVLPYVGVVVKSS	
Os07g0543600		AAVAKDTSATLVETLPL PTTLVGPESVAFDKFGDGPYSGVSDGRILRWGDADKGWTTYSHAPGYNVA KCMAPKLHPAELTESKCGRPLGLRFHNTSGNLYIADAYKGLMRVGPGRGGE ATVLATEADGVPFKFTNGVDVNQVTGEVYFTDSSSTRFQRSQHEMVTATGD	

		STGRMLKYDPTTGYLDVLSQSGMTYPNGLAISADRSHLVVALTGPKLVRH WIEGPKAGTSEPFaelPGYPDNVRPDGKGGYWVALHREKTETPYGSDTHL LAVRIGRKGKILQELRGPKNVRPTEKI	
Os07g0614000		CP IQPLAPPPARPPAAARFPPNLLQNLEKLGEGMLSA PEDVYVDDAGGEVFTATRDGWVRRMQANGSWERWGLVGGTGLLGVAPSADGAMLVCDADK GLLKVDENGRVTLASTVEGSTIRFADAAIEASDGTVYFSDASTRFSFDNWFLDFFEYRF TGRLLKYDPRTEASVVL DGLGFANGVALPPDEAFVVV CETMRFRCLRVWLKGEKAGEAE IFVDNLPGNPDNIRLGS DGHFWIALLQVRSPWLDLISRWSLTRRVIASFPALVERTKATL KGAVVAQVSLNGEIVRVLGDSEGNVINMVT SVTEFNGLD LFLGSLATNF IGKLSLAKVTRE QEDAVPS	
Os08g07810		QQVKTSHAQFAFHLPLPDGVTGAE SLAFDSSNHGPTYGVSDGRVLRWGGAAAGWTTFAHHENYRKIPMCTTPVAPAEETESMCG RPLGLAFHDRTGDLYIADAYKGLMRVGPGRGAEVLAAGADGV PFNFVNGIDVDQATGDV YFTDSSTTYPRRFNSEIMMNADATARLLKYDAATKRVTVL RAGLPYANGVAVSRDGSNAV VAHTVPCQAFRYWIKGPNAGEYELLADLPGYPDNVRRDANGGYWVALNQEKARLDATAAA AVAPPAKHLVGVRLDGDGVEVEELTAAGVTLSEVVERGGKLLWLSVELDFIGLMQ	
Os08g0442200		QRVICEAPPCTTASQVKTTPTRASHVRLPEGVGTGAES LAFDSSNRGPF TGVSDGRVLRWGGDSAGWTTFAYNRYRSNPTCASSSEETESTCGRPLG LAFHLKTGILYFADAYKGLMRVGPGRGQADVLATEADGV PFNYLNGVDVDQDTGDVYFTD SSTTI TRRYQENIMRNRDATARLMKYDAKTKQVTVLKDRLPYANGVAVSHDGRYLVAHT GPAQVFRYWLKGAQYELFADLPGYPDNVRRDAKGGYWVGLNREKITFNVPAASPAK HLVGVRLNGDGVEVEELTAASRAVTLSEVVERDRKLLWLSVLDLDYVGLLQ	
Os09g0373200		ATTSAGGGDEPTYETKSI DPSLAVMTLPAPVTGPESLAFDGRGDGPYTGGSDGRILRWRGGRLGWTEF AYNSRHKSVGCSPEKKLVVPE SVCGRPLGLQFHASGDLYVADAYLGLL RVPARGGLAEVVA TEAAGV PFNFLNGLDVDQRTGDVYFTDSSTTYRRSQY LLVVAMGDETGRLLRYDARRRVTVLHSGLPYPNGVAVSDDGTHVVAHT GLCELRRYWL RGPRAKSETFAEVP GYPDNVRRDGDGGYWVALSRGADND DVAPTVAVRVTAAGKKKGGAAVVAEALAGFSFVTVSEVAEQNTLWIGS VDTPYAGAAVRGRR	Os06g41830
Os09g0374900		AAAAAAGGHGEEEMKSIYAGPKVVPVRLGRPAFGPESL	Os06g41850

		AFDHRGGGPPYTGVSNGRVLRWDRRRRPGWTEFAHNYKHATVAECAARKKAAAAAESVCG RPLGVQFDRRTGEMYIADAYLGLMRVGRRGMAEVVAEAGGVALNFANGVDVDQATGDV YFTDSSTTYKRSDYLLVVLSGDATGRLLRYEPRGTGNVTVLESGLAFPNGVAVSADGTHLV VAETASCRLLRHWLRGSNAGATEVLADLPGYPDNVRHAAADGGRGASYWVALNRDKAWTV NGTTPASVAAVRVVDDGGSKVDVALRGGFATVSEVVERNGSLWFGSVDTYPVGLLKL SL	
Os10g39710		LYSPEGFSPAPMPPEYSYGAPVSAPRHEPRALAASER VGEGRLPAPEDLAYDAAGGWLYTGCGDGVRRVSVSSGDVEDWARTGGRPLGVALTADGG LVVADADIGLLKVSPDKAVELLTDEAEGVKFALTDGVDVAGDGVYFTDASHKHS�AEFM VDVLEARPHGRLMSFDPSTRRTTVLARGLYFANGVAVSPDQDSLVCETVMRRCSTRYHIN GDKAGTVDKFIGDLPGFPDNI RYDGEGRYWIAISAGRTLQWDVLRSPFVRKLVYMVDRF VVAVPHNLKNAGAMSVTLAGEPVSMSYSDPGLALTTGWLKVGDYLYYGLTKPYLSRIDLA KSPA EKAQE	
Os11g04660		AILSLDSRSDVRQLEIRDGDVELIPLLDGAAGPESIVFGDAGDG PYTSVSDGRILKWLPPPERRWVEHSCSVPELLDSCRGSKDTKREQECCGRPLGLKFNSKTG ELYVADAYLGLRVVSPGENVSRPLVPKRTGSPFSFNGVEIDHETGVIYFTETSTRFQRR EFLNIVITGDNTGRLLKYDPKENKVEVLVDGLRFPNGLAMSIDGSYLLLAETTTGKILRY WIKTPKASTIEEVAQLPGFPDNIKMSPRGGFWVGLHAKRGKIAEWSISYPWLRKLIKFLP AQRIQRITSFLTGFGRQVIALRLSEDGKTIEAMSVHGDVRKLFKSI SEVEEKDGNLWIGS VLS PFLGLYRI	
Os12g04424		MIWWNIMSRSKCDKAINHISTLHKQIRSRVAISLIAVTISLIAVIHIGSGLLVPMKAR LVVLA AAAVAAAALLVSLDPRSDDVPLEIWERDVELITVDAGGAVGPESVAFDGDGDGPY TGVSDGRVLKWLPLERRWVEHSSAVIEPHMLDSCRGSKDTKREQECCGRPLGLKFNSKTGE LYVADAYLGLRVVSPGENVSRPLVPKWTESPFSFNGVEIDHETGVIYFTETSTRFQRR FLNIVITGDNTGRLLKYDPKENKVEVLVDGLCFPNGLAMSNDGSYLLLAETTTGKILRYW IKTPKASTIEEVVQLHGFPDNIKMSPRGGFWVGLHAKRGKIAEWSISYPWLRKLVILKLP QRIQRITSFLTGFGRQVIALRLSEDGKTIEAMSVHGDVRKLFKSI SEVEEKDGNLWIGSV LSPFLGLYRI	Os11g04660
cyanobact Am	YP_001522267.1	WPVPIEPVAWEAPSNPGYSGAFESNQRKDIQKPLRDNHGPEDIALDSQGRIYASTHEGRIVRLLPDGSSSQ NWWETGGRPLGIDFDKSGHLI IADAFRGLLSIAEDKTIITVLATEADGVPI SYANDVDIADDGKIYFSDASTKF GAKEWGGTYEASLLDLMEHGHHGRLLVFNPTDGSVQTLDDLLNFANGVALSHDQTYVLVNETGNRYRVIRYWLN GPQKGQSETFLKDLPAFPDNI STGLGNRFWVALVSPRSVAVLDQLSNKPFMRKVIQRLPAFLRPKAQPYGHIIA	

		VDGSGNVVQNLQDPQGTYP LNTAITETEEYLYIGSLVAPNIGRLSKPDDF	
proteobact Hc	YP_431405.1	VINPEAYDAPSAPDLEGSYAPNQRLLAEELIGQGRLDGPEdVAQDA DGAIYAGLANGDIVRINKDGELKVLANTGGRPLGLEFNPA GDLI VADA AKGLLQLDKEGKLT VLT SKADN LPFGVADDVDVGEDGVIYFSDASWRWGVHEHRLDLIESRPHGRLLRYDPGAGVTTV LLEDLYFANGVALS QNE D FVAVCETGGRYVRRYWLQGP KQGTSDIL IENLPGFPDGVSSNGAGEFWIALIAPRNGVLD FMHSFP WLKSRMSKLP EALQPQAERYGFV LGVNEQGEILHNLQDPEGERLHTITSVEQVGDVLLFGTLTGDWIGRL SLTREESESEPEL	
Agla Aa	estExt_fgenes2_ kg.C_120003	MPPPYDGVAASAVSAADLDLYPGQPGGTP IPPVLEGA WAPNDRLRAATRLFEGIVAGSESVATLDGGDLLLVD KFGVWVISAGGTATP TRTWYVGPGRPLGFHAHRGKLLVACSTKGLLELDLESGALRILANVATDTREPLNYVN DLAVD GATGDVYFSSSTELGVR RDGTRGFYDTMQGYLMNLMRGDHSGRLLKYDARTGATTTLAAGLAYANGVA LSPDASF AVVAETNRARLMRVDLATGEMSVFVDGLPALPDGVTAAADGFWIAGIARPAPVA AKLAPYPALRTL AAHVAPYVFPVFAKPWAGALKVGF DGAPLDALYDPTGERVSTMSCV VQHGARLYLG NLAGDFVSVVDLGS	

Table S2. Primers and optimal acquisition temperatures used in Q-PCR

Gene	Forward primer (5'–3')	Reverse primer (5'–3')	PCR size (bp)	Acquisition temperature (°C)
GAPDH	TGGTTGATCTCGTTGTGCAGGTCTC	GTCAGCCAAGTCAACAACCTCTCTG	262	77
Actin	GAGTTCTTCACGCGATACCTCCA	GACCACCTTTATTAACCCCATTTACCA	180	76
Cyclophilin	TGGCGAACGCTGGTCCTAATACA	CAAAAACCTCTTGCCCCAATCAA	223	79
Tubulin	ATGTGGGTGAGGGTATGGAA	CCGACAACCTTCTTAGTACTCCTCT	143	78
<i>AtSsl4</i>	GAGCCTCTTGCATTCTACATTACTAG	TGATGTGCCAGGGACGAAG	127	75
<i>AtSsl5</i>	CACAAAATGGTAAACGTATCGTCCC	TTGGAATGGCTTGTATGGTTGA	116	72
<i>AtSsl6</i>	TATGGCGGCTAAGTACGGCTAT	GGTGGTTATGTGAGAGCGC	121	77
<i>AtSsl7</i>	ATCGCGTACTACCATGATCCAAA	TCAGGAGATCAAGTCGGAGGATA	115	72

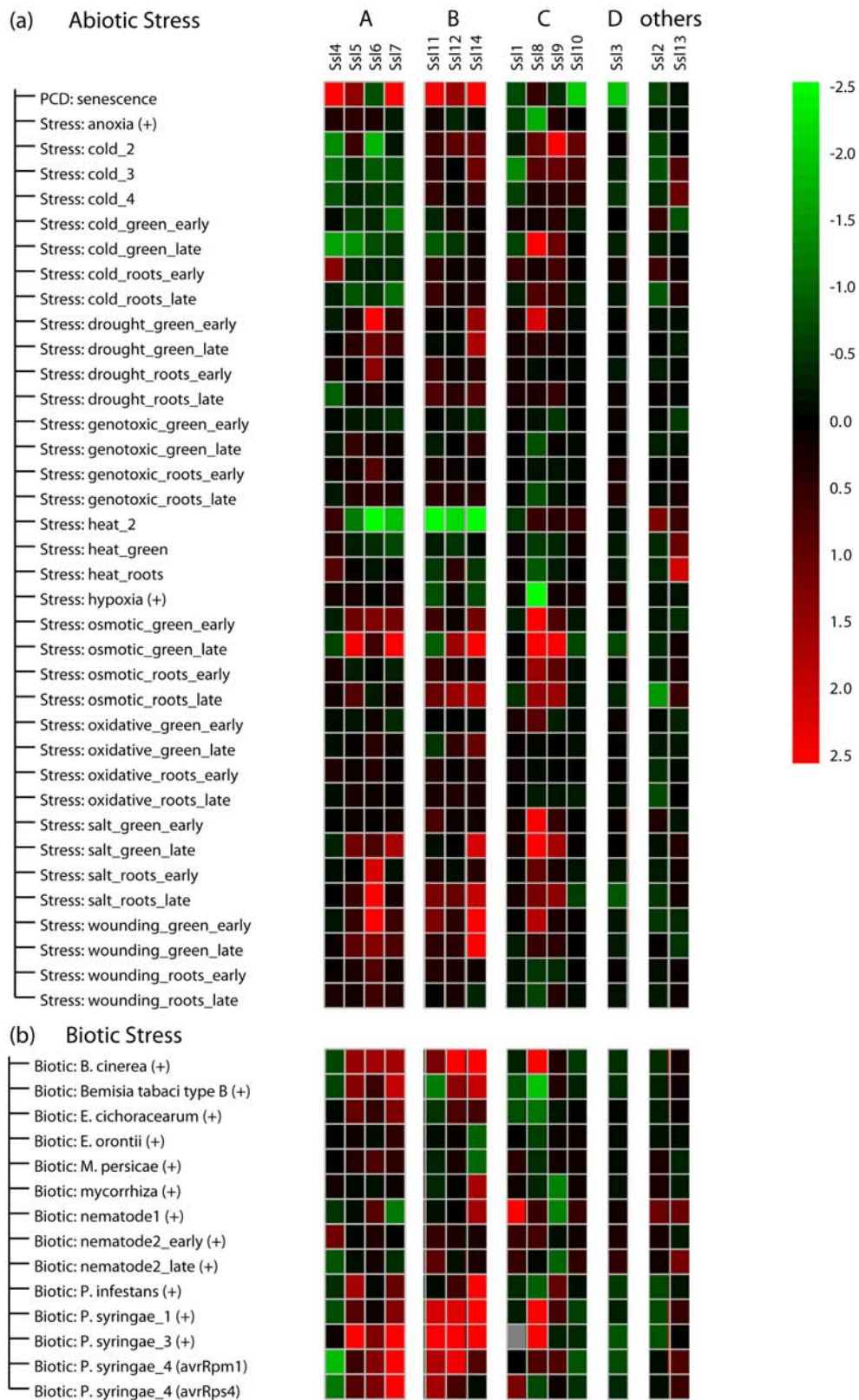


Fig. S2. *In silico* analysis using Genevestigator (Zimmermann *et al.* 2005) showing the response of *AtSsl* genes to a variety of (a) abiotic and (b) biotic stresses.

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