

```

Solyc01g005060_SlIDD12 .....
Solyc01g007120 .....
Solyc01g099340_SlIDD10 .....
Solyc02g062940_SlIDD17 .....
Solyc02g085580_SlIDD1 .....
Solyc03g098070 .....
Solyc03g121660_SlIDD11 .....
Solyc04g008500_SlIDD4 .....
Solyc04g056320_SlIDDb ..... MSFTGDLRH ..... LPPN...
Solyc04g080130_SlIDD18 .....
Solyc05g054030_SlIDD5 .....
Solyc06g062670_SlIDD2 .....
Solyc06g065440 ..... ME
Solyc06g072360_SlIDD9 .....
Solyc06g075250_SlIDD7 .....
Solyc07g053570_SlIDD8 .....
Solyc08g063040_SlIDD16 .....
Solyc08g080850 ..... MEELADKIEIPQKAEDKKDEELEELEDEDEEGEL
Solyc09g007550_SlIDD13 .....
Solyc09g065670_SlIDD15 .....
Solyc09g074780_SlIDD3 .....
Solyc10g084180_SlIDD14 .....
Solyc11g017140 ..... MPSDNHSFTNLN ..... LHEQKWE ..... GSSYLDQEIIRIE
Solyc11g066420 ..... MIQGTSSSANNPQ.NIPLY.S.S
Solyc11g069240_SlIDD6 .....
AT1G03840_MGP/AtIDD3 .....
AT1G14580_BLJ/AtIDD6 .....
AT1G25250_FAL/AtIDD16 .....
AT1G34370_AtSTOP1 ..... METEDDLCNTNWGSSSSKSREPGSSDCGNSTFAGFTSQKWE ..... DASILDYEMGV
AT1G55110_AtIDD7 .....
AT1G68130_AtIDD14 .....
AT2G01940_SGR5/AtIDD15 .....
AT2G02070_RVN/AtIDD5 .....
AT2G02080_IME/AtIDD4 .....
AT2G24990_AtIDDa ..... MEEVVLVTEPPPTIPP ..... VVEYEEHHDDDDDDDL
AT3G13810_AtIDD11 .....
AT3G45260.1_BIB/AtIDD9 .....
AT3G50700_AtIDD2 .....
AT4G02670_AtIDD12 .....
AT5G03150_JKD/AtIDD10 .....
AT5G22890_STOP2 ..... MHIHMNRDEHIAKKVEGSISSFSGE
AT5G37350_AtIDDb ..... MEEVVVVAEPPPKITP ..... FVEYEEHELEDDDD.L
AT5G44160_NUC/AtIDD8 .....
AT5G60470_EGRET/AtIDD13 .....
AT5G66730_ENY/AtIDD1 .....
Os03g0197800_OsIDD1 .....
Os01g0195000_OsIDD2 .....
Os09g0555700_OsIDD3 .....
Os02g0672100_OsIDD4 .....
Os07g0581366_OsIDD5 .....
Os08g0554400_OsIDD6 .....
Os02g0518500_OsIDD7 .....
Os01g0242200_OsIDD8 .....
Os01g0935000_OsIDD9 .....
Os04g0566400_OsIDD10 .....
Os01g0572300_OsIDD11 .....
Os08g0467100_OsIDD12 .....
Os09g0449400_OsIDD13 .....
Os03g0237250_OsIDD14 .....
Os01g0888700_OsIDDa .....
Os01g0871200_OsIDDb ..... MDSGLGRSSETSLKALPSMASNATRNTDPDQQGVRFSSMDQPPCFARFQSFPAFPPLFG
Os03g0838800_OsIDDb ..... MYLEQDEDFSQMIMELCDFDASST
Os04g0165200_ART2 ..... MNPQ ..... E
Os07g0162300_OsIDDe ..... MKRSGRTPTWP .....
Os10g0419200_Ehd2 .....
Os08g0562300_OsIDDe ..... MIPGGGGGGGGGG ..... ISPYLVQ
Os02g0572900_STOP1 ..... MKSTTHLLAGGGGGGSVAPPTAAT
Os12g0170400_DART1 ..... MDRDQMTN ..... TMRDQAANLTSMNPLFYFPMAD

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Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

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Solyc01g005060_S1IDD12 .....MLDN.....
Solyc01g007120 .....MKLDVNVVLRYSKDDFRVLTAVEMGM
Solyc01g099340_S1IDD10 .....MSNSNLSSG..NSSE.....EADET
Solyc02g062940_S1IDD17 .....MNDCVGSG
Solyc02g085580_S1IDD1 .....MPADPDNSSAMNDSTGSG
Solyc03g098070 .....
Solyc03g121660_S1IDD11 .....MKDLMNQQAQVPGVVMEENMSNLTSASG.EASVSSSNR.....NDNNN
Solyc04g008500_S1IDD4 .....M..REE.....ELSQ.....
Solyc04g056320_S1IDDb .....TIGD.....DPMVPLLNLNSAVQTRMDSLQKFLSDSV
Solyc04g080130_S1IDD18 .....MAEIEKSA
Solyc05g054030_S1IDD5 .....MLTSNSFLFG.....A
Solyc06g062670_S1IDD2 .....MSIVTCEEA.AASLSSSS.....NMN
Solyc06g065440 .....QQAN.....QSNENHDF.AGLQEWDPRAMLKSMSFLEQKIHQRLRELVIIV
Solyc06g072360_S1IDD9 .....MT
Solyc06g075250_S1IDD7 .....MMSD..DGLSSLAFI.....Q
Solyc07g053570_S1IDD8 .....MTEEV.....ISN..G
Solyc08g063040_S1IDD16 .....MIKMLGDDSMNS.....LTSASNEASISSTNNR.....IEIGS
Solyc08g080850 .....SWSSDSEIGEALDYLDTKDNSESNVGAFSLQTRRPNAHGGLHTRPNSSALQPLSNRTQKF
Solyc09g007550_S1IDD13 .....MMSG..DLFSIHQ.....Q
Solyc09g065670_S1IDD15 .....
Solyc09g074780_S1IDD3 .....MSNISGEEGSPSSGE.....EAHLH
Solyc10g084180_S1IDD14 .....MMSG..DVFSFPSSV.....KAVLP
Solyc11g017140 .....QQFTGFAKPKHTSEMD.QQGNQNHDT.TRHWDWDPRALNLSFLEQKIHQQLVHLIV
Solyc11g066420 .....NHHPNNN.....IQEDIFSSSSSSSYQQN....SFLFNLSLLKEKVHVQVSLATMFI
Solyc11g069240_S1IDD6 .....MMSN..DGLS.....
AT1G03840_MGP/AtIDD3 .....MTTED.QTSSSSGG
AT1G14580_BLJ/AtIDD6 .....MDLCSFSKNRP...AEKM..SSSYNTIALSSTPTFLLSSAAAAGPG
AT1G25250_FAL/AtIDD16 .....MIHYEQNNLQNL.....
AT1G34370_AtSTOP1 .....PGLQES.....IQANVDFLQGVRAQAWDPRTMLSNLSFMEQKIHQQLVHLIV
AT1G55110_AtIDD7 .....MMMNRDILFHQQQQQ..QMEENMSNLTSASGDQASVSSGNR.....TETSG
AT1G68130_AtIDD14 .....MIDYERSNTTKNINTHHNNPP
AT2G01940_SGR5/AtIDD15 .....MRTDQVMSLNKNNTNCCVV
AT2G02070_RVN/AtIDD5 .....MAASSSSAAS...FFGV..RQD....DQSHLLPPNSSAAAAPP
AT2G02080_IME/AtIDD4 .....MSSSSYNTS...VIPS...SSS....SAQFFFITSS...GTG
AT2G24990_AtIDDa .....SLSSSDIAEALDWLDGKDDDELIGGGFSLHARRPNAHGHSRPNSSSLQPISNKAQKL
AT3G13810_AtIDD11 .....MLLHQHQQP..QQDENMSNLTSASGDQASVSSGNI.....TEASG
AT3G45260.1_BIB/AtIDD9 .....MMMPDDHHPHLPSPSYV.....L
AT3G50700_AtIDD2 .....MPVDLD.....NSSTVSG
AT4G02670_AtIDD12 .....MDMFSSHLSYKLSLSTEASASSGNNTLS..TIQEF
AT5G03150_UKD/AtIDD10 .....MQMIPG..DPFSISSMGGFVHQETHLH
AT5G22890_STOP2 .....TSTSSKQ.....IYVNPVTTGTKSMEDDDVSLSLYLNLSLTHLKHVHQIQLSVFYM
AT5G37350_AtIDDb .....SLSSSDIAEALDWLDGKDDDELIGGGFSLHARRPNAHGHSRPNSSALQPISNKAQKL
AT5G44160_NUC/AtIDD8 .....MTSEVLQTISSSGS
AT5G60470_EGRET/AtIDD13 .....MNQDMMIPHNDRLSFSFV.....H
AT5G66730_ENY/AtIDD1 .....MPVDLD.....NSSTVSG
Os03g0197800_OsIDD1 .....MEVETSSGTAERGA
Os01g0195000_OsIDD2 .....MMLKDLAEIQQQQ.....LLAAAEEN.....LTSA
Os09g0555700_OsIDD3 .....MAAASSAP...FFGL..GD.....TQMPPPPNPTNPA
Os02g0672100_OsIDD4 .....MASNSSAAAVAA...LFGI.RDGDHEDQIKPLFAQQQHHHQPMP
Os07g0581366_OsIDD5 .....GGWSCGGGRSRGD
Os08g0554400_OsIDD6 .....MAAASSAH...YFGL..GE.....PQMQ..QQQQPP
Os02g0518500_OsIDD7 .....MSHTSEESLNNLQ.....QPKLE
Os01g0242200_OsIDD8 .....MATSEAAAI SNPFA
Os01g0935000_OsIDD9 .....MEEFELQQQPYYSK.....LLGSPLEIANVDDSDL
Os04g0566400_OsIDD10 .....MASNSSAAAAAA...FFGISRDGDQHDQIKPLISHQQHQHQQQQLA
Os01g0572300_OsIDD11 .....MFHHHLQQQQQQEE..EEGGGLFLVEEAAEA...ADQQ....QESSM
Os08g0467100_OsIDD12 .....MLSSCAPTAVPPQDASGAAT
Os09g0449400_OsIDD13 .....MLGSCAPT TAGPPPEATTP
Os03g0237250_OsIDD14 .....MALVKSHHQMLASSSTSSSPSSQQQPPP
Os01g0888700_OsIDDa .....MKLDVNALRYSKDDFRVLTAVEMGM
Os01g0871200_OsIDDb .....VQSSSLYLPDDIEAKIGNQFESNPSPNNPTMDWDPQAMLSNLSFLEQKIKQVKDIVQSMS
Os03g0838800_OsIDDC .....TQAR.....HGEEAAAAAAGNARAVLTYLTFLEQKIGHLRGIISSTP
Os04g0165200_ART2 .....FQFFQGV.....EQEMLLLSSHGGGGAAAAASDDVLAHYHVGVLRDKVQQLEPLVGMVV
Os07g0162300_OsIDDe .....MRSTGS.....TARRPNAHGGLSRP...FQPI SNRTQKL
Os10g0419200_Ehd2 .....MLLSDLSDDQEAATGNSHGGGGGDRMVVSHGAAHVVLNLFPLPA
Os08g0562300_OsIDDF .....SQHGHHG.....GVDGMEEEGGGFMGEQPQCHPLLYNLSVLKDRVQQLHPLVLAV
Os02g0572900_STOP1 .....APTLAMEVGGDP...SGALVGGAGGAGAGGGGDARDALLRRLVALGDRMAAVRRRIAASI
Os12g0170400_DART1 .....DALLGMAPP.....PPQQLLP SVSIQHMDWSPDTMLDNLTFIEEKIRQVKDVI R SMA

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Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

	10	20
Solyc01g005060_S1IDD12	.SSSS.....EALINSGD.....SNR	KKR...RPAGT.....
Solyc01g007120	RNHEIVP..CELIDRIARLKHGGTYKVLKLLKHKL	VHHDKSSKYDGF.....
Solyc01g099340_S1IDD10	P..YV.....LS..STDGSSAHQQHSQTNNK	KKR...KLPGN.....
Solyc02g062940_S1IDD17	EVSVL.....SSGDQTAPCKE.....AAK	KKR...NLPGM.....
Solyc02g085580_S1IDD1	EASVS.....SSGNQVVLKE.....SAK	KKR...NLPGM.....
Solyc03g098070	.....	.....
Solyc03g121660_S1IDD11	NNNNNIYPHHQYNFAPPNQOTOPAAQ.....IK	KKR...NQPGN.....
Solyc04g008500_S1IDD4	.....N.....QQENLLQAQ.....APS	KKR...NQPGT.....
Solyc04g056320_S1IDDb	NSNT.....LLGQHQMNMVSDIITSAIHQIIVNG	AALLSSAQLTNP.....
Solyc04g080130_S1IDD18	EESII.....QQNFP.....VK	KKR...NLPGN.....
Solyc05g054030_S1IDD5	PSNYS.....DPFSSPENG.....FIIK	KKR...RPAGT.....
Solyc06g062670_S1IDD2	NDTNG.....AFYPPQHQLVTQQ.....IK	KKR...NQPGN.....
Solyc06g065440	DHRSLAGIQGSDLSIQQQQLITADLTSIIQLISTA	GSLLPTVKHQAN..PPTKRLEQ.
Solyc06g072360_S1IDD9	SSEIN.....ENSCINNNN.....NNK	KKR...RPAGT.....
Solyc06g075250_S1IDD7	DPNSN.....PTNNNPNSN.....PSAK	KKR...NLPKG.....
Solyc07g053570_S1IDD8	FTHDN.....SIE.....GSNPPPL	KKR...RNLPGN.....
Solyc08g063040_S1IDD16	HVLYP.....QLQNIQTQPPP.....NK	KKR...NLPGN.....
Solyc08g080850	ANHIRASPLEEWEGRIKVGMSNSVTTAIRGSVRDMA	IGTKTTEKADR.....
Solyc09g007550_S1IDD13	QHQQV.....LVEQNPNPKAN.....SSSK	KKR...NLPGT.....
Solyc09g065670_S1IDD5	.....MVSNNHHHEQPPK.....IK	KKR...NLPGN.....
Solyc09g074780_S1IDD3	TSNNN.....ISSITTSNGSTSQSQQQPLAK	KKR...NLPGN.....
Solyc10g084180_S1IDD14	HHHQE.....LQTANPNPKPN.....TSSK	KKR...NLPGT.....
Solyc11g017140	GRRGQDEVQGNLDLIVQQQLITADLTSIIIVQLISTA	GSLLPTMKYTLSSAIPAASQLGQ.
Solyc11g066420	TPDNQT..IIHPPPEISISMIIANMGTLIQEITTS	SSLMFSCQKIVLDSTSLSQNSRY
Solyc11g069240_S1IDD6	.....CSM.....	.....
AT1G03840_MGP/AtIDD3	YVQSS.....STTDHVDHHHHDQHESLNPPLV	KKR...RNLPGN.....
AT1G14580_BLJ/AtIDD6	PNNFN.....RQEAAMTMVQQOPTSSVAPPPK	KKR...NQPGN.....
AT1G25250_FAL/AtIDD16	PSSSS.....NDLLLGING.....ADATHK	KKR...RPAGT.....
AT1G34370_AtSTOP1	GRGGQLQGRQDELAAQQQLITDLDLTSIIQLISTA	GSLLPSVKHNMS..TAPGFPTGQ.
AT1G55110_AtIDD7	SNINQ.....HHQECCFVPOSS.....LK	KKR...NQPGN.....
AT1G68130_AtIDD14	PSSSS.....SDLLPDNG.....TAVTQK	KKR...RPAGT.....
AT2G01940_SGR5/AtIDD15	SSSSS.....DPFLSSSENGVTTTNTSTQK	KKR...RPAGT.....
AT2G02070_RVN/AtIDD5	PPPPH.....HQAPLPPLE.....APPQK	KKR...NQPRT.....
AT2G02080_IME/AtIDD4	DNDFN.....RKDTFMSMTQPPNSS..APPK	KKR...NQPGN.....
AT2G24990_AtIDDa	TSHVRASPLEGWEGRVKVGMNSVTTAIRGSLRDE	IGRSRNTDKADR.....
AT3G13810_AtIDD11	SNYFP.....HHQQQEQQQQQ.....IQ	KLS...CSWTDLSLFQLEDIVTFL
AT3G45260.1_BIB/AtIDD9	HQEHI.....APNPNPNPNTSS.....NSAK	KKR...NLPGN.....
AT3G50700_AtIDD2	EASVSI.....SSTGNQNPSPNS.....TGK	KKR...NLPGM.....
AT4G02670_AtIDD12	SGFHN.....VSSVCTHETHK.....PK	KKR...GLPGN.....
AT5G03150_JKD/AtIDD10	HLQQQ.....IPDLNPNSNPNPNKPNSSSAK	KKR...NQPGT.....
AT5G22890_STOP2	VSTNN.....INQSSGSTSLAVANIGSLVQEIITAA	SSMLYTCQQQLIGSN.....
AT5G37350_AtIDDb	TSHVRASPLEGWEGRVKVGMNSVTTAIRGSLRDE	IGRSRNTDKADR.....
AT5G44160_NUC/AtIDD8	FAQPQ.....SSS.TLDHDES...LINPPLV	KKK...RNLPGN.....
AT5G60470_EGRET/AtIDD13	DQEHI.....TPNPYPNSQFAAST...KTPK	KKR...NLPGN.....
AT5G66730_ENY/AtIDD1	DASV.....SSTGNQNLTPKS.....VGK	KKR...NLPGM.....
Os03g0197800_OsIDD1	GAGAQ.....QQPPPPQPPQP.....PAK	KKR...ALPGM.....
Os01g0195000_OsIDD2	SGDQA.....SVSSHPAPP.....AK	KKR...SLPGN.....
Os09g0555700_OsIDD3	LHHHP.....NPSAPVAA.....AAPAPK	KKR...NQPGN.....
Os02g0672100_OsIDD4	APSNA.....AAAASAAGSAAGQAAVAAPPK	KKR...TLP.....
Os07g0581366_OsIDD5	.ATQS.....DGDGGGARAGG.....GAG	SGG...GGGGA.....
Os08g0554400_OsIDD6	LQNN.....AAAPVAA.....TTP.PK	KKR...NQPGN.....
Os02g0518500_OsIDD7	A.....CAAGSSKGDVTMPVVK	KKR...GHPGN.....
Os01g0242200_OsIDD8	PLTNH.....QQE.....HPPPPPPPA	KKR...RNLPGT.....
Os01g0935000_OsIDD9	QLVAG.....VPS.....DPPAPPTA	VKKKKRSLPGT.....
Os04g0566400_OsIDD10	ASLTG.....VATAAPTAASSQGAPPAAPPK	KKR...NLPA.....
Os01g0572300_OsIDD11	SNLTS.....SASTVPPPPPPSSGNNGNSNK	KKR...SLPGN.....
Os08g0467100_OsIDD12	EPFRS.....LQIATAGA.....AAK	KKR...RPAGT.....
Os09g0449400_OsIDD13	EPFRS.....LQIATASAG.....SAK	KKR...RPAGT.....
Os03g0237250_OsIDD14	PASNS.....SSLAAAAAD.....QSPAK	KKR...RPPGT.....
Os01g0888700_OsIDDa	RNHEIVP..AELVDRIAGLKHGGTYKVLRLNLLKKNL	VHHDATKYDGYR.....
Os01g0871200_OsIDDb	NRESQVAG.GSSEAQAQQLVTDLTCIIQLISTA	GSLLPSMKNPIS.SNPALRHLSNT
Os03g0838800_OsIDDc	N.....PPPQIVAAELSCIVQLVVIS	KNLAAARR.....
Os04g0165200_ART2	VSPAAP..HGQLRRDAAAMAASACSVLQEIITAAA	SAVAHRLEQANAASS.....
Os07g0162300_OsIDDe	ASHIRATPLEEWGRMNVGMSNSVTTAIRDSIRETA	IGRTRNTEKADR.....
Os10g0419200_Ehd2	AAAAAT...MLLPAAPVMVPAAMAAQAEPRAK	KKR...SLPGN.....
Os08g0562300_OsIDDF	AHNAHA...HGPLD...VSAADAIQEIIVAAA	SSMMYAFOLLCDLGT.....
Os02g0572900_STOP1	SGESG...PLSSSDIHSVSSEISSAAHLVVLNA	ASLLSSTVASLP.....
Os12g0170400_DART1	GRRAS...SSSAATPEQQLVNADLTCILIVQLISTA	GSLLPSLKNSSFLSRTTPPPAAA.

Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

```

Solyc01g005060_SlIDD12 .....
Solyc01g007120 .....
Solyc01g099340_SlIDD10 .....
Solyc02g062940_SlIDD17 .....
Solyc02g085580_SlIDD1 .....
Solyc03g098070 .....
Solyc03g121660_SlIDD11 .....
Solyc04g008500_SlIDD4 .....
Solyc04g056320_SlIDDb ..... P P P P P P P P R P S S S A E L K I N L K S N H K
Solyc04g080130_SlIDD18 .....
Solyc05g054030_SlIDD5 .....
Solyc06g062670_SlIDD2 .....
Solyc06g065440 ..... F G G ..... A S V P S E T G T N . I G A L T C N G Y V P K A K . D Q L S H V D Q M G D C . .
Solyc06g072360_SlIDD9 .....
Solyc06g075250_SlIDD7 .....
Solyc07g053570_SlIDD8 .....
Solyc08g063040_SlIDD16 .....
Solyc08g080850 .....
Solyc09g007550_SlIDD13 .....
Solyc09g065670_SlIDD15 .....
Solyc09g074780_SlIDD3 .....
Solyc10g084180_SlIDD14 .....
Solyc11g017140 ..... V G G ..... V T V P S T A G T S . A G G L T C N D G V A K L E . D Q S N H I D Q L R D C G I
Solyc11g066420 ..... R E P S Q N D V G H G Q G Q G V D H L L Q D Y D W Y V D N Y N S N C N T H E D N K N H V T S S S T I I A S S T
Solyc11g069240_SlIDD6 .....
AT1G03840_MGP/AtIDD3 .....
AT1G14580_BLJ/AtIDD6 .....
AT1G25250_FAL/AtIDD16 .....
AT1G34370_AtSTOP1 ..... P G S ..... A V F P Y V R E A N N V A S Q S Q N N N N C G A R . E F D L P K P V L V D E . .
AT1G55110_AtIDD7 .....
AT1G68130_AtIDD14 .....
AT2G01940_SGR5/AtIDD15 .....
AT2G02070_RVN/AtIDD5 .....
AT2G02080_IME/AtIDD4 .....
AT2G24990_AtIDDa .....
AT3G13810_AtIDD11 .....
AT3G45260.1_BIB/AtIDD9 .....
AT3G50700_AtIDD2 .....
AT4G02670_AtIDD12 .....
AT5G03150_JKD/AtIDD10 .....
AT5G22890_STOP2 ..... N N N N D I D N D Q . . . T V D A M V L E F S R Q E T D P G H D F V Q E S T N L F G V Q E R G Q I S F P . D
AT5G37350_AtIDDb .....
AT5G44160_NUC/AtIDD8 .....
AT5G60470_EGREY/AtIDD13 .....
AT5G66730_ENY/AtIDD1 .....
Os03g0197800_OsIDD1 .....
Os01g0195000_OsIDD2 .....
Os09g0555700_OsIDD3 .....
Os02g0672100_OsIDD4 .....
Os07g0581366_OsIDD5 .....
Os08g0554400_OsIDD6 .....
Os02g0518500_OsIDD7 .....
Os01g0242200_OsIDD8 .....
Os01g0935000_OsIDD9 .....
Os04g0566400_OsIDD10 .....
Os01g0572300_OsIDD11 .....
Os08g0467100_OsIDD12 .....
Os09g0449400_OsIDD13 .....
Os03g0237250_OsIDD14 .....
Os01g0888700_OsIDDa .....
Os01g0871200_OsIDDb ..... L C A P M I L G T N C N L R P S A N D E A T I P D I S K T H D Y E E L M N S L N T T Q A E S D E M M N C Q N P C G G E G
Os03g0838800_OsIDDb ..... G G ..... D D A D A D A K H D G S .....
Os04g0165200_ART2 ..... A S F R R G V A F A D D A H A A G G V Q M F A A G A H G G G Q G G D D E A G A S L F H H H G P P A V G A P T V
Os07g0162300_OsIDDe .....
Os10g0419200_Ehd2 .....
Os08g0562300_OsIDDF ..... A P T T . . A P S Q E T A A A S A V V V K N N D H A A D A G O M E D D H L M Q Q Q W Q Q N G S R O H D Y S S H
Os02g0572900_STOP1 ..... A P P P P P . . . A T T V Q E L P P V V V S . .
Os12g0170400_DART1 ..... A G A ..... A Q A V S L A A G E S S S S A R N N E T N R E D E E E Q M G S P D Y D E L F K V W

```

Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.



Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

	70	80	90
Solyc01g005060_S1IDD12	QNLQMHRRRH	KVPWKL	VVKR...IEV
Solyc01g007120	IFEVVKEG	DTVLAMK	LHRLG...RVSR...AVKSK
Solyc01g099340_S1IDD10	QNLQLHRRGH	NLPWKL	KQK...S.NEI
Solyc02g062940_S1IDD17	QNLQLHRRGH	NLPWKL	RQR...SNEV
Solyc02g085580_S1IDD1	QNLQLHRRGH	NLPWKL	RQR...SNEV
Solyc03g098070	...MHRRRH	KVPWKL	LKRET...PIV
Solyc03g121660_S1IDD11	QNLQLHRRGH	NLPWKL	KQRT...SKEIR
Solyc04g008500_S1IDD4	QNLQLHRRGH	NLPWKL	KQKN...TKEVA
Solyc04g056320_S1IDDb	ANLRMHRAH	GNQYK	TPAALAKPEK...CIDSSNSN
Solyc04g080130_S1IDD18	QNLQLHRRGH	NLPWKL	RQR...SNEV
Solyc05g054030_S1IDD5	QNLQMHRRRH	KVPWKL	KKKEEKNE...MDQVI
Solyc06g062670_S1IDD2	QNLQLHRRGH	NLPWKL	KKRE...NKEV
Solyc06g065440	ANLRMHMRGH	GDEYKT	SAALIKP...QKD...SSSGTTLIKR...YSCPIGCK
Solyc06g072360_S1IDD9	QNLQMHRRRH	KVPWKL	LKRET...PIV
Solyc06g075250_S1IDD7	QNLQLHRRGH	NLPWKL	KQRN...KNEVI
Solyc07g053570_S1IDD8	QNLQLHRRGH	NLPWKL	KQRN...SKEV
Solyc08g063040_S1IDD16	QNLQLHRRGH	NLPWKL	KQRS...NKEV
Solyc08g080850	VYHATKADG	QELAIKV	YKTS...VLVFKDRDRYVQGDYRFR
Solyc09g007550_S1IDD13	QNLQLHRRGH	NLPWKL	KQRN...KQEI
Solyc09g065670_S1IDD15	QNLQLHRRGH	NLPWKL	KQRN...NKEN
Solyc09g074780_S1IDD3	QNLQLHRRGH	NLPWKL	KQRN...T.AEV
Solyc10g084180_S1IDD14	QNLQLHRRGH	NLPWKL	KQRN...KLEQ
Solyc11g017140	ANLRMHMRGH	GDEYKT	PAALAKP...HKE...PSSEPTLTKR...YSCPIVGCCK
Solyc11g066420	ANLRMHRAH	GDEYKS	SAALSNPMKRI...NDLTSDDGSLKSSSNTIKYSQPEGCR
Solyc11g069240_S1IDD6	QNLQLHRRGH	NLPWKL	KQRN...NKEVI
AT1G03840_MGP/AtIDD3	QNLQLHRRGH	NLPWKL	KQRN...SKEV
AT1G14580_BLJ/AtIDD6	QNLQLHRRGH	NLPWKL	KQRS...NKEV
AT1G25250_FAL/AtIDD16	QNLQMHRRRH	KVPWKL	LKRDKD...EEV
AT1G34370_AtSTOP1	ANLRMHMRGH	GDEYKT	PAALAKP...NKEV
AT1G55110_AtIDD7	QNLQLHRRGH	NLPWKL	KQRS...NKDV
AT1G68130_AtIDD14	QNLQMHRRRH	KVPWKL	LKRETN...EEV
AT2G01940_SGR5/AtIDD15	QNLQMHRRRH	KVPWKL	LKRDNN...IEV
AT2G02070_RVN/AtIDD5	QNLQLHRRGH	NLPWKL	KQRS...TKEV
AT2G02080_IME/AtIDD4	QNLQLHRRGH	NLPWKL	KQRS...TKEV
AT2G24990_AtIDDa	VYHATKSDG	SELAIKV	YKTS...VLVFKDRDRYVQGDYRFR
AT3G13810_AtIDD11	QNLQLHRRGH	NLPWKL	KQRS...NKEV
AT3G45260.1_BIB/AtIDD9	QNLQLHRRGH	NLPWKL	KQRN...NKEV
AT3G50700_AtIDD2	QNLQLHRRGH	NLPWKL	KQRS...NKEV
AT4G02670_AtIDD12	QNLQLHRRGH	NLPWKL	KQRS...TKEQ
AT5G03150_UKD/AtIDD10	QNLQLHRRGH	NLPWKL	KQRS...KQEI
AT5G22890_STOP2	ANLRMHRAH	GDEYKT	TREALISPTS...QDKKGGYSLKHHY...YSCPIHGCR
AT5G37350_AtIDDb	VYHATKSDG	SELAIKV	YKTS...VLVFKDRDRYVQGDYRFR
AT5G44160_NUC/AtIDD8	QNLQLHRRGH	NLPWKL	KQRN...SKEV
AT5G60470_EGRET/AtIDD13	QNLQLHRRGH	NLPWKL	KQRS...NKNQV
AT5G66730_ENY/AtIDD1	QNLQLHRRGH	NLPWKL	RQRS...TKEV
Os03g0197800_OsIDD1	QNLQLHRRGH	NLPWKL	RQRS...GKEV
Os01g0195000_OsIDD2	QNLQLHRRGH	NLPWKL	KQRN...PKEV
Os09g0555700_OsIDD3	QNLQLHRRGH	NLPWKL	KQRN...PKEA
Os02g0672100_OsIDD4	QNLQLHRRGH	NLPWKL	KQRN...PLQA
Os07g0581366_OsIDD5	QNLQLHRRGH	NLPWKL	RQRGP...GAAPP
Os08g0554400_OsIDD6	QNLQLHRRGH	NLPWKL	KQRN...PKET
Os02g0518500_OsIDD7	QNLQLHRRGH	NLPWKL	KQRS...S.TEAK
Os01g0242200_OsIDD8	QNLQLHRRGH	NLPWKL	RQRS...GKEP
Os01g0935000_OsIDD9	QNLQLHRRGH	NLPWKL	RQRGGAG.GGGG...GEP
Os04g0566400_OsIDD10	QNLQLHRRGH	NLPWKL	KQRN...PAQA
Os01g0572300_OsIDD11	QNLQLHRRGH	NLPWKL	KQRG...SKEAV
Os08g0467100_OsIDD12	QNLQMHRRRH	KVPWKL	LKREAG...EAA
Os09g0449400_OsIDD13	QNLQMHRRRH	KVPWKL	LKREAG...EAA
Os03g0237250_OsIDD14	QNLQMHRRRH	KVPWKL	RKPAAATAAEDGGAAGGGGGAGGGGAGGGGAA
Os01g0888700_OsIDDa	IFEVATED	GTVLAMK	LHRLG...RTSFR...AVKSKRDYL
Os01g0871200_OsIDDb	ANLRMHMRGH	GDEYKT	PAALAKP...SKD...SSLESAPVTR...YSCPIVGCCK
Os03g0838800_OsIDDb	ANLRMHMRGH	GDEYKSA	ALAKPPGG...SPSRSPAADAARRRFFYS
Os04g0165200_ART2	ANLRMHMRGH	GDEYKTA	ALAL...STGAGMRAAARRRCSY
Os07g0162300_OsIDDe	VYHATKADG	QELAIKV	YKTS...VLVFKDRDRYVHGDYRFR
Os10g0419200_Ehd2	QNLQLHRRGH	NLPWKL	RRAAAVS
Os08g0562300_OsIDDf	ANLRMHMRGH	GDEYKSA	ALSNPTK...LLAKGGDETMAAAARKYS
Os02g0572900_STOP1	ANLRMHMRGH	DRFKT	LDALS
Os12g0170400_DART1	ANLRMHMRGH	GDEYKSA	ALAKPPP...PPEG.EEQPPQPE

Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.



Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

	160	170	
Solyc01g005060_S1IDD12	HS	CDCGRVFS	RVESFIEHQDSC
Solyc01g007120	ELQNP	...D	VFETIIEAVIRL
Solyc01g099340_S1IDD10	YK	CDCGTFFS	RRDSFVTHRAFC
Solyc02g062940_S1IDD17	YK	CDCGTFFS	RRDSFITHRAFC
Solyc02g085580_S1IDD1	YK	CDCGTFFS	RRDSFITHRAFC
Solyc03g098070	HS	CDCGRVFS	RVESFIEHQDAC
Solyc03g121660_S1IDD11	YR	CDCGTFFS	RRDSFITHRAFC
Solyc04g008500_S1IDD4	YR	CDCGTFFS	RRDSFITHRAFC
Solyc04g056320_S1IDDb	WK	CSCGTFFS	RKDKLFGHMALEF
Solyc04g080130_S1IDD18	YR	CDCGTFFS	RRDSFITHRAFC
Solyc05g054030_S1IDD5	HS	CDCGRVFS	RVETFIEHQDSC
Solyc06g062670_S1IDD2	YK	CECGTFFS	RRDSFITHRAFC
Solyc06g065440	WL	CSCGTFFS	RKDKLFGHISLFF
Solyc06g072360_S1IDD9	HS	CDCGRVFS	RVESFIEHQDAC
Solyc06g075250_S1IDD7	YK	CDCGTFFS	RRDSFITHRAFC
Solyc07g053570_S1IDD8	YR	CDCGTFFS	RRDSFVTHRAFC
Solyc08g063040_S1IDD16	YR	CDCGTFFS	RRDSFITHRAFC
Solyc08g080850	DAALS	SDKLR	ECYVEIIMAMRTLY
Solyc09g007550_S1IDD13	YK	CDCGTFFS	RRDSFITHRAFC
Solyc09g065670_S1IDD15	YR	CDCGTFFA	RRDSFVTHRAFC
Solyc09g074780_S1IDD3	YK	CDCGTFFS	RRDSFITHRAFC
Solyc10g084180_S1IDD14	YK	CDCGTFFS	RRDSFITHRAFC
Solyc11g017140	WL	CSCGTFFS	RKDKLFGHISLFF
Solyc11g066420	WQ	CSCGTFFS	RKDKLMGHVSLFF
Solyc11g069240_S1IDD6	YK	CDCGTFFS	RRDSFITHRAFC
AT1G03840_MGP/AtIDD3	YR	CDCGTFFS	RRDSFITHRAFC
AT1G14580_BLJ/AtIDD6	YR	CDCGTFFS	RRDSYITHRAFC
AT1G25250_FAL/AtIDD16	HS	CDCGRVFS	RVESFIEHQDTC
AT1G34370_AtSTOP1	WL	CSCGTFFS	RKDKLFGHISLFF
AT1G55110_AtIDD7	YK	CDCGTFFS	RRDSFITHRAFC
AT1G68130_AtIDD14	HS	CDCGRVFS	RVESFIEHQDTC
AT2G01940_SGR5/AtIDD15	HS	CDCG.FFS	RVESFIEHQDNC
AT2G02070_RVN/AtIDD5	YR	CDCGTFFS	RRDSFITHRAFC
AT2G02080_IME/AtIDD4	YR	CDCGTFFS	RRDSYITHRAFC
AT2G24990_AtIDDa	DAALS	LDKLR	ECYLELIIMRVLY
AT3G13810_AtIDD11	YR	CDCGTFFS	RRDSFITHRAFC
AT3G45260.1_BIB/AtIDD9	YR	CDCGTFFS	RRDSFITHRAFC
AT3G50700_AtIDD2	YK	CDCGTFFS	RRDSFITHRAFC
AT4G02670_AtIDD12	YR	CDCGTFFS	RKDFITHRAFC
AT5G03150_JKD/AtIDD10	YK	CDCGTFFS	RRDSFITHRAFC
AT5G22890_STOP2	WV	CSCGTFFS	RKDKLMSHVSLFF
AT5G37350_AtIDDb	DAALS	LDKLR	ECYLELIIMRVLY
AT5G44160_NUC/AtIDD8	YR	CDCGTFFS	RRDSFITHRAFC
AT5G60470_EGRET/AtIDD13	FR	CDCGTFFS	RRDSFISHRSFC
AT5G66730_ENY/AtIDD1	YK	CDCGTFFS	RRDSFITHRAFC
Os03g0197800_OsIDD1	YR	CDCGTFFS	RRDSFITHRAFC
Os01g0195000_OsIDD2	YR	CDCGTFFS	RRDSFITHRAFC
Os09g0555700_OsIDD3	YR	CDCGTFFS	RRDSFITHRAFC
Os02g0672100_OsIDD4	YR	CDCGTFFS	RRDSFITHRAFC
Os07g0581366_OsIDD5	YR	CDCGTFFT	RRDSFVTHRAFC
Os08g0554400_OsIDD6	YR	CDCGTFFS	RRDSFITHRAFC
Os02g0518500_OsIDD7	YR	CDCGTFFS	RRDSFITHRAFC
Os01g0242200_OsIDD8	YR	CDCGTFFS	RRDSFITHRAFC
Os01g0935000_OsIDD9	YK	CDCGTFVFS	RRDSFVTHRAFC
Os04g0566400_OsIDD10	YR	CDCGTFFS	RRDSFITHRAFC
Os01g0572300_OsIDD11	YK	CDCGTFFS	RRDSFITHRAFC
Os08g0467100_OsIDD12	HT	CDCGRVFS	RVESFIEHQDAC
Os09g0449400_OsIDD13	HS	CDCGRVFS	RVESFIEHQDTC
Os03g0237250_OsIDD14	HS	CDCGRVFS	RVESFIEHQDAC
Os01g0888700_OsIDDa	ELQNP	...D	VFDLILGLVIRL
Os01g0871200_OsIDDb	WL	CSCGTFFS	RKDKLFGHVALFF
Os03g0838800_OsIDDb	WV	CSCGTFFS	RKDKLFGHVALFF
Os04g0165200_ART2	WL	CSCGTFFS	RKDKLMGHVALFF
Os07g0162300_OsIDDe	DAALS	DDKLR	RESYFELITMTRTY
Os10g0419200_Ehd2	YR	CDCGTFFS	RRDSLITHRAFC
Os08g0562300_OsIDDF	WL	CSCGTFFS	RKDKLIGHVSLFF
Os02g0572900_STOP1	WR	CSCGTFFS	RKDKLFGHVALFF
Os12g0170400_DART1	WL	CSCGTFFS	RKDKLFGHVALFF

Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

180 190

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Solyc01g005060_S1IDD12 .....PRLQPITAACSS.....SDTNLP.....
Solyc01g007120 .....KVTIIDFPQMVSVSHPNQMYFDRDVECIY.....
Solyc01g099340_S1IDD10 .....TTQPLATG..PELIST.TQMLNLPQIR.....
Solyc02g062940_S1IDD17 .....AEEDLKVQVDVSSSTPQTPRTPPPSSEP.PAVPSPAAP.....
Solyc02g085580_S1IDD1 .....NEEPKTOAVASSSPSPSPAPPPATESQPPPPPAAP.....
Solyc03g098070 .....LRSESQSLHP...PCLSRSTASFPSSSDNLSTTPWS.....
Solyc03g121660_S1IDD11 .....ANPILPQAGS.....STSQMNFO.....
Solyc04g008500_S1IDD4 .....LMN...TLGMNNNQYLYGSSSNINLGTFFSKLGNNNNIT.....
Solyc04g056320_S1IDDb .....PAIENEKDVGVINGGSGNGLMDIRTGSDNGFLD.....
Solyc04g080130_S1IDD18 .....NAEG.DLKVDEAINKTVSSS.....SSPPP.....
Solyc05g054030_S1IDD5 .....KECHDMQIPKPIFLPTTTTTHIPPHDQYSKILP.....
Solyc06g062670_S1IDD2 .....RNPTIFSPQMN.....LQFQQPHY.....
Solyc06g065440 .....TSN.QGQP..MMQLQRLEI.....
Solyc06g072360_S1IDD9 .....LRSESQSLIQLPSAPCLSRSTASS.PSPSSDHTNNLITTT.....
Solyc06g075250_S1IDD7 .....STANLNFRN.EILLNGGFNTNLQQSTGNPQF.....
Solyc07g053570_S1IDD8 .....NPLAMANN...INYHFIGAPLGPNMAQHFSS.....
Solyc08g063040_S1IDD16 .....PPNSS.....
Solyc08g080850 .....HLYVIDVSQSVLDLHPLALDFLREDCVHVS.....
Solyc09g007550_S1IDD13 .....TTNNLNFN...QQQQQ.PVGVSQIG.....
Solyc09g065670_S1IDD5 .....LMHRAATSTIANSA.....
Solyc09g074780_S1IDD3 .....MEHNMHSGQMHEIMSS.NASLGLSEFN.....
Solyc10g084180_S1IDD14 .....ATNLINFPNTATLLNQO.QANLHGFG.....
Solyc11g017140 .....TSD.RGQTEVTMKARQENYKVN.ASLGNEFQNP.....
Solyc11g066420 .....KQSAR.....
Solyc11g069240_S1IDD6 .....TAVNLNLR.NQLINGGIS.TNLQQOQ..QM.....
AT1G03840_MGP/AtIDD3 .....SFAATAGS...NLNYHYLMGTLPSPSLPQPP.....
AT1G14580_BLJ/AtIDD6 .....MAAGGGGGARHGFGY..GASS..ALS.HNHFGNNPNSG.....
AT1G25250_FAL/AtIDD16 .....TNHR..HLQHTMGLDAPSRTTS...TASFG.....
AT1G34370_AtSTOP1 .....TSTQRGSSEGGNNNQMGVFNLSGASNANOETTQ.....
AT1G55110_AtIDD7 .....AMPNP.....IMIQASNS.....
AT1G68130_AtIDD14 .....SNHRLHEQQHTTNAQTASTAENNENGDLISG.....
AT2G01940_SGR5/AtIDD15 .....EPPRRPQTAVTVPACSSRTASTVSTPSSETNYGGTVAVIT.....
AT2G02070_RVN/AtIDD5 .....LPSHHFPYGGQNTNNSNNNASS.MILG.LSHMGAPQNLD.....
AT2G02080_IME/AtIDD4 .....MTAASSGVGSGGIYGRLLGGGS..ALS.HHLLSDHPNFG.....
AT2G24990_AtIDDa .....HLYIIDVSQSVLDLHPLALNFLREDCDHVS.....
AT3G13810_AtIDD11 .....QNQNNQPNP.....LLIHQSAS.....
AT3G45260.1_BIB/AtIDD9 .....APAYLNNALDVEVNHGNINQNHQORQL.....
AT3G50700_AtIDD2 .....NPE.....ILTRKNP.....VPN.....
AT4G02670_AtIDD12 .....SSNLTNPN.....
AT5G03150_UKD/AtIDD10 .....I...STTNLNFNGNESVMNPNLPHGFVHRG.....
AT5G22890_STOP2 .....GSSKPPITLK.....
AT5G37350_AtIDDb .....HLYIIDVSQSVLDLHPLALNFLREDCDHVS.....
AT5G44160_NUC/AtIDD8 .....GLAAAGAPGSVNLNYQYLMGTFIP...PLQP.....
AT5G60470_EGRET/AtIDD13 .....PLAANSTIATVDTNPNILIQSQLDQS.....
AT5G66730_ENY/AtIDD1 .....YPE.....TVTRKNPEIEQKSPAAVESSPSLPPSSPPSV.....
Os03g0197800_OsIDD1 .....ADEDGTSASAGAPPPQAPLPPPAPVPAPAPPPPP.....
Os01g0195000_OsIDD2 .....AAAAVAGQQQHGG...GMLFSQVAD.....
Os09g0555700_OsIDD3 .....VYGGAGN..MTLG.LTGMAAPQLPAGFPDQAGQ.....
Os02g0672100_OsIDD4 .....HLYGSAGAANMALS..LSQVGSHLASTLQDHGHHHHHG.....
Os07g0581366_OsIDD5 EEEVKEKEKEKELEENEDSPVAEVDPEQPQSAVAEVPQQCAPSPPPPPPIQLQEHPPQPVVA
Os08g0554400_OsIDD6 .....LYAAAGAG.MAIGGLTGMAASHQLQPFQDHSAS.....
Os02g0518500_OsIDD7 .....SLHGQQDMFSGHGVPSFSSSPDMIANLASN.....
Os01g0242200_OsIDD8 .....AAAAAATATSLCGQSYLAFAGSGGPMGAMRPN.....
Os01g0935000_OsIDD9 .....AVTSALQGO...QQAHPVADDDDAAGVKSPH.....
Os04g0566400_OsIDD10 .....SHLYGASNAGNMALS..LSQVGSHLTTSLQDGGGHHHHP.....
Os01g0572300_OsIDD11 .....PAAMAAPGHHHHHHHHHHHQLFSPPV.....
Os08g0467100_OsIDD12 .....VGAPAAAASSQQQLFAVPASLSRTASS.ASPSSDLVSPVAVPAT.....
Os09g0449400_OsIDD13 .....GGVAVLEQEKQLDLQAPAAAASLSRTASS.TSPSSDVVASPVAVP.....
Os03g0237250_OsIDD14 .....EVVPVATTLPVIRPALRHHHHHHPPPPPELQLLP.....
Os01g0888700_OsIDDa .....KVTMIDFPQMVSVKHRNAQMFFDRDIECIY.....
Os01g0871200_OsIDDb .....SEQPQGSE.AMNTMVGSAGYNFPSSSDDIPNLD.....
Os03g0838800_OsIDDb .....SGQLPHAAGEAVGRTVDTNRFFS...DGLMIK.....
Os04g0165200_ART2 .....EASPSTTTTGTGTTDRSRTGLID.....
Os07g0162300_OsIDDe .....HLYIIDVSQSVLDLHPSALEFLKEDCLHVT.....
Os10g0419200_Ehd2 .....SITTTTCNNSNINSSNNNNNNINSISNS.....
Os08g0562300_OsIDDF .....QRSSASVAGNIDDTTGIGMGAA.....
Os02g0572900_STOP1 .....ATAAAEASISMEEGG.VEANCNDREDEEGGFDP.....
Os12g0170400_DART1 .....RRRHKQEEPEFTWGGGGGNEFLDVKGIAGVGSGS.....

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Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

Solyc01g005060_S1IDD12KLAIMPLPKNS.....TNLE
 Solyc01g007120KFFAKRYNMSFDENENDSDGLEVDINEVGR
 Solyc01g099340_S1IDD10NSN.....MKIP...SIPLNMA
 Solyc02g062940_S1IDD17EPLPPP GSP.STAVVSS.....DSPIQHP...ESPHTNSNGTITKHDIEE
 Solyc02g085580_S1IDD1KSLMTP TVPPSTAVMSF.....ASSVQNRRELRENVPVINSAGAATKQVVEE
 Solyc03g098070STLLK.....KLSSAAAAANP...NMVKSCTNKHNL
 Solyc03g121660_S1IDD11FQPFNH EIPVTFSLKKEQQTGFNLRPEI
 Solyc04g008500_S1IDD4KTTTTTTTTTSG.VQFDHHHHDNNLIGSS...TT.TTTTTNNPF
 Solyc04g056320_S1IDDbRLMLDGFESIDSYCFQDLFESSSPNGLNTPVNTTGWV...
 Solyc04g080130_S1IDD18QPLTPSTSVLSPVLSIQ.....SSELPEYQNGQGGVQIQQAQGTTPVST
 Solyc05g054030_S1IDD5NLDLELFTSPN.....YFNQN
 Solyc06g062670_S1IDD2FNSHEQIQ AATFPMKKEQQSSDFRHIEI
 Solyc06g065440
 Solyc06g072360_S1IDD9NTIP.....WPNFIINTPN...AMIK...EHNLE
 Solyc06g075250_S1IDD7GSNLF RPEFMGLG.LDPAISHHHQPQLNNDVGDQKPRI
 Solyc07g053570_S1IDD8LFKPVSNNNN.....NNNNNENSDPMRR.....NQLSL
 Solyc08g063040_S1IDD16TSHHLLNHTLQNF.....QMKQEQQQ
 Solyc08g080850DFFKKGVAVMTIRELDFDIVDPTINDSV
 Solyc09g007550_S1IDD13TSFAQDFTSMTTVN..PLHQHQ.KPRL
 Solyc09g065670_S1IDD5AIADEPNFHLDQSSVFPFPANQRHFANP
 Solyc09g074780_S1IDD3NFDPKNSLKALPQELLPIPFKSMTNNMA
 Solyc10g084180_S1IDD14AGCRP DFGSYTTGNNSLHQQQKPKRL
 Solyc11g017140GVVKECPYNPSSYF SPLNFDTSNLNGFQEPFRPPDES
 Solyc11g066420
 Solyc11g069240_S1IDD6SGNIS..QLMGLGSLDPSN.....QLNLDHGQKSRL
 AT1G03840_MGP/AtIDD3SFPFGPPQPQ.....HHHHHQFP ITTNNFDHQDVMKPASTLSL
 AT1G14580_BLJ/AtIDD6FTPLAAAGYNLN.....RSSSDKFEDFVPPQA...TNPNGPT.NFL
 AT1G25250_FAL/AtIDD16PLLHGLPLLR.PP.....RPSNQHS
 AT1G34370_AtSTOP1PGMTDGRICFEESFSPMNFDTCNFGGFHEFPRLMFDDSESS
 AT1G55110_AtIDD7PHHHHQ TQCNIGFSSSS.....QNIIS
 AT1G68130_AtIDD14PILPGHPLQRRQS.....PPSEQQP
 AT2G01940_SGR5/AtIDD15PQPLEGRPIHQRISSSILTNSSNNLLELQLLPLSSNQ.....PNQENQQ
 AT2G02070_RVN/AtIDD5HQPGDVLRLGSGGGGGAASRSSDLIAAN...ASGYFMQENPS
 AT2G02080_IME/AtIDD4FNPL..VGYNLN...IASSDNRDFIPOS...SNPN...FL
 AT2G24990_AtIDDaDFFKKGVAVMTIRELDFDIVDPAITDENV
 AT3G13810_AtIDD11HPHHHQ TQPTINVSSSSSSSNNHNIN
 AT3G45260.1_BIB/AtIDD9NTTSSQLDQPGFNTNRNIAFLG...QTL
 AT3G50700_AtIDD2PVPAP.VD TESAKIKS.....SSTLTIK...QS...ESPKTPEI VQE
 AT4G02670_AtIDD12PNFQGHFMFNKSSSLLFTSSP.LFIEP
 AT5G03150_UKD/AtIDD10VHHPDINA AISQFGLGFGHDLFSAMHAQQ
 AT5G22890_STOP2
 AT5G37350_AtIDDbDFFKKGVAVMTIRELDFDIVDPTISDENV
 AT5G44160_NUC/AtIDD8FVPQPQTNP.....HHHQHFQPTS.....SSLSL
 AT5G60470_EGRET/AtIDD13STGTADLN VNNNHTTLFGQKFTNSNPTQQ
 AT5G66730_ENY/AtIDD1AIAPAP AISVETESVKIIS.....SSVLP IQ...NSPESQENNNHPEVIEE
 Os03g0197800_OsIDD1AAAPAPAAQPEQRD.RD.....AALDQFATPAPAP...APPV TAPP
 Os01g0195000_OsIDD2VLDHQAMAMGGHGLMQELCLKREQQQ
 Os09g0555700_OsIDD3PSASAGDVLRLGGGSGNGASQFDHLMASS...SGSSMFRSQG..
 Os02g0672100_OsIDD4ASPDLLRFGGSGGG.....AMAARLEHLLSSS...SASAFRPLPP
 Os07g0581366_OsIDD5 VVPNVDEQEVVAKPAVIAKIEVEDERDEEVCFQEVDRYKDAELEDNSLLDNDTPMLPCFL
 Os08g0554400_OsIDD6IT TAA.....NAAAQFDHLMATSSAAAGSPAFAAAQPT
 Os02g0518500_OsIDD7DHNSDSLRS...LSPYALVTRNTTLF
 Os01g0242200_OsIDD8MMMPPPQDAA.....QLSWLYGN.....SNST
 Os01g0935000_OsIDD9LKMFPD VDN I.....VAAATAGNPLLP
 Os04g0566400_OsIDD10SPELLRLGGAGGGGGAGGSSIAARLDHLLSPS...GASAFRP.PQP
 Os01g0572300_OsIDD11MAHHQELALQEQ...QQQHHDQVMQS
 Os08g0467100_OsIDD12GGGGPAMVSPRAAAPAPAGGSI AAFHHRFTDPALSPPTPCGGRRGGCHTHSLE
 Os09g0449400_OsIDD13GAGAPSMPSPKAAA.....FRGRF.DMAPSPPPP SYDHYRGGAGAHNLE
 Os03g0237250_OsIDD14ASTTAPLAAAFS.....SNST
 Os01g0888700_OsIDDaKFFRKRFLHSSEKCE.EQDGSIDDDENSR
 Os01g0871200_OsIDDbMKMADD...PRYFSPLSFDPC.FGLDDFTTRPGFDISENP
 Os03g0838800_OsIDDCGSMED E...RGSLSPMGLDYCEFDGIDLFAAAAFDF...
 Os04g0165200_ART2
 Os07g0162300_OsIDDeDFFKKGVAVMSVTELFNFVIDQNIAD EDV
 Os10g0419200_Ehd2NNLLITSSSSSPPLFLPFSTTPAENPNP
 Os08g0562300_OsIDDF
 Os02g0572900_STOP1KFFQEWMEELRG...GAVAPN.WSAPSEAGH...
 Os12g0170400_DART1GGGDEFFS..AGSFGAMDFGFGQLDASLAMLPLPSEQFAG..

Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

```

Solyc01g005060_S1IDD12 LGLKSS.....
Solyc01g007120 PQFSEINKNKNSGFLLD.....
Solyc01g099340_S1IDD10 .GSMFSSSSG.....
Solyc02g062940_S1IDD17 TTAKSRLSGICSSSSCTGCTNSNCFTSLTGICSSSSWSSSSNGSTSNSSIFSSLTGICSSST
Solyc02g085580_S1IDD1 AAVVASLTGNCSSS.....
Solyc03g098070 LQLLTT.....
Solyc03g121660_S1IDD11 PPWLLVGGGGGPGP.....
Solyc04g008500_S1IDD4 FLQDTNQDHYN.....
Solyc04g056320_S1IDDb .....
Solyc04g080130_S1IDD18 TPVITISTAAASGP.....
Solyc05g054030_S1IDD5 THNFSS.....
Solyc06g062670_S1IDD2 PPWLITTN SQPFQL.....
Solyc06g065440 .....
Solyc06g072360_S1IDD9 LQLLTT.....
Solyc06g075250_S1IDD7 PLWLDN.NMNPNGND.....
Solyc07g053570_S1IDD8 WNNIGVAEQDQIGININNLRL.....
Solyc08g063040_S1IDD16 NNDLS.SQLFIQNP.....
Solyc08g080850 DSYLEKVQERILAR.....
Solyc09g007550_S1IDD13 SLWLNQANNMMS.....
Solyc09g065670_S1IDD15 PPPQLPISAAATGV.....
Solyc09g074780_S1IDD3 PGGMFSITSGNLFGNsprsv.....
Solyc10g084180_S1IDD14 SLWLDQQAANHNPN.....
Solyc11g017140 FSFLLSGSCFYPPHKAAKFMSSSEME.....
Solyc11g066420 .....
Solyc11g069240_S1IDD6 PLWLHHENSNYGNPND.....
AT1G03840_MGP/AtIDD3 WSGGNINHHQQVT.....
AT1G14580_BLJ/AtIDD6 MQCSPNQGLLAQ.....
AT1G25250_FAL/AtIDD16 PAFAYPF.....
AT1G34370_AtSTOP1 FQMLIANACGFSprNVGESVSDTSL.....
AT1G55110_AtIDD7 .....
AT1G68130_AtIDD14 STLLYPF.....
AT2G01940_SGR5/AtIDD15 QKVKEP.....
AT2G02070_RVN/AtIDD5 FHDQQDHHHHHQQGF.....
AT2G02080_IME/AtIDD4 IQSASSQGMLNTT.....
AT2G24990_AtIDDa DSYLEEVQRKVIER.....
AT3G13810_AtIDD11 SLHFDTNNGNTNNS.....
AT3G45260.1_BIB/AtIDD9 PTNVFASSSSPSPR.....
AT3G50700_AtIDD2 APKPTS LN.VVTS.....
AT4G02670_AtIDD12 . . .SLSTAALSTPP.....
AT5G03150_JKD/AtIDD10 LSEMVMQMASTGNHH.....
AT5G22890_STOP2 .....
AT5G37350_AtIDDb DSYLEEVQRKVIER.....
AT5G44160_NUC/AtIDD8 WMG.....
AT5G60470_EGRET/AtIDD13 QPNALALSSPPSPR.....
AT5G66730_ENY/AtIDD1 ASRTIGFN.VSSSD.....
Os03g0197800_OsIDD1 PPPVAAPND CVSSS.....
Os01g0195000_OsIDD2 QQQFAPSWLTAQQQ.....
Os09g0555700_OsIDD3 .SSSSSFYLANGAAHHAPAQD.....
Os02g0672100_OsIDD4 QQQPPAPFLLGAAP.....
Os07g0581366_OsIDD5 PSPSEAIGTDGSSST.....
Os08g0554400_OsIDD6 SSSSSPFYLG.....
Os02g0518500_OsIDD7 SNQISPKESG.....
Os01g0242200_OsIDD8 .....
Os01g0935000_OsIDD9 .....
Os04g0566400_OsIDD10 AFFLNAAAAAAATG.....
Os01g0572300_OsIDD11 PHQHQQQQQQRQQL.....
Os08g0467100_OsIDD12 LQLMPPRTTTTCAG.....
Os09g0449400_OsIDD13 LQLMPP.....FNA.....
Os03g0237250_OsIDD14 TTGSSS.....
Os01g0888700_OsIDDa PSFLSIQKAAGSLD.....
Os01g0871200_OsIDDb FSFLPSGSCSFGQQNGDS.....
Os03g0838800_OsIDDb .....
Os04g0165200_ART2 .....
Os07g0162300_OsIDDe DHYLEKIQQKMLEN.....
Os10g0419200_Ehd2 NQLLFLQQHQAAH.....
Os08g0562300_OsIDDF .....
Os02g0572900_STOP1 .....
Os12g0170400_DART1 .....DHQEENGDK.....

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Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

```

Solyc01g005060_SlIDD12 .....
Solyc01g007120 .....
Solyc01g099340_SlIDD10 .....
Solyc02g062940_SlIDD17 R S S S S N G S T G S I S V F P S L S G I C S N S R S S S S N G S T Q S S S I F S S S T G I C S S S I F P S S T G I C S
Solyc02g085580_SlIDD1 ..... C S N G .....
Solyc03g098070 .....
Solyc03g121660_SlIDD11 .....
Solyc04g008500_SlIDD4 .....
Solyc04g056320_SlIDDb .....
Solyc04g080130_SlIDD18 .....
Solyc05g054030_SlIDD5 .....
Solyc06g062670_SlIDD2 .....
Solyc06g065440 .....
Solyc06g072360_SlIDD9 .....
Solyc06g075250_SlIDD7 .....
Solyc07g053570_SlIDD8 .....
Solyc08g063040_SlIDD16 .....
Solyc08g080850 .....
Solyc09g007550_SlIDD13 .....
Solyc09g065670_SlIDD15 .....
Solyc09g074780_SlIDD3 .....
Solyc10g084180_SlIDD14 .....
Solyc11g017140 .....
Solyc11g066420 .....
Solyc11g069240_SlIDD6 .....
AT1G03840_MGP/AtIDD3 .....
AT1G14580_BLJ/AtIDD6 .....
AT1G25250_FAL/AtIDD16 .....
AT1G34370_AtSTOP1 .....
AT1G55110_AtIDD7 .....
AT1G68130_AtIDD14 .....
AT2G01940_SGR5/AtIDD15 .....
AT2G02070_RVN/AtIDD5 .....
AT2G02080_IME/AtIDD4 .....
AT2G24990_AtIDDa .....
AT3G13810_AtIDD11 .....
AT3G45260.1_BIB/AtIDD9 .....
AT3G50700_AtIDD2 .....
AT4G02670_AtIDD12 .....
AT5G03150_JKD/AtIDD10 .....
AT5G22890_STOP2 .....
AT5G37350_AtIDDb .....
AT5G44160_NUC/AtIDD8 .....
AT5G60470_EGRET/AtIDD13 .....
AT5G66730_ENY/AtIDD1 ..... L S N D .....
Os03g0197800_OsIDD1 ..... S S G .....
Os01g0195000_OsIDD2 .....
Os09g0555700_OsIDD3 .....
Os02g0672100_OsIDD4 .....
Os07g0581366_OsIDD5 ..... S C G .....
Os08g0554400_OsIDD6 .....
Os02g0518500_OsIDD7 .....
Os01g0242200_OsIDD8 .....
Os01g0935000_OsIDD9 .....
Os04g0566400_OsIDD10 .....
Os01g0572300_OsIDD11 .....
Os08g0467100_OsIDD12 .....
Os09g0449400_OsIDD13 .....
Os03g0237250_OsIDD14 .....
Os01g0888700_OsIDDa .....
Os01g0871200_OsIDDb .....
Os03g0838800_OsIDDb .....
Os04g0165200_ART2 .....
Os07g0162300_OsIDDe .....
Os10g0419200_Ehd2 .....
Os08g0562300_OsIDDe .....
Os02g0572900_STOP1 .....
Os12g0170400_DART1 .....

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Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

```

Solyc01g005060_SlIDD12 .....SHHEN.TI
Solyc01g007120 .....KELAASGFTRKDQ
Solyc01g099340_SlIDD10 .....FNQLGTNNSN.
Solyc02g062940_SlIDD17 GSSIFASSTGIYSNSSLSSNRSTSGSSIIFSLTGTICSSSSNSSSNSTFASLFFASSTASG
Solyc02g085580_SlIDD1 .....SSSNVFGSLFFASSTASG
Solyc03g098070 .....TTSSSSP...AFDVSVSSKPNE
Solyc03g121660_SlIDD11 .....G...PGPPQ.PQPID
Solyc04g008500_SlIDD4 .....ANNNNIKPLMVHGLMQLPNLDH
Solyc04g056320_SlIDDb .....
Solyc04g080130_SlIDD18 .....SSSKVFASVFPSSSSAQ
Solyc05g054030_SlIDD5 .....FVDQSDHHH
Solyc06g062670_SlIDD2 .....GAINPSPSV.PLSNF
Solyc06g065440 .....
Solyc06g072360_SlIDD9 .....TSTTTTSPCSPFDVSISSKSRD
Solyc06g075250_SlIDD7 .....FLVASSSSTTSNLPHHELVIQI
Solyc07g053570_SlIDD8 .....EIHQINPLLHHTSAPAP.APVYDANTLLASSRSN
Solyc08g063040_SlIDD16 .....NGNSSNMFGAP.PPH
Solyc08g080850 .....GDMTA.EEEIADS
Solyc09g007550_SlIDD13 .....SQSSNLFGLPDH...H
Solyc09g065670_SlIDD15 .....TTHISLNPWEPQ
Solyc09g074780_SlIDD3 .....ASSSSGLQLSSNIPSNFNYLQDQNGKNR
Solyc10g084180_SlIDD14 .....LQISSSSNLFDSSTGGFQE
Solyc11g017140 .....
Solyc11g066420 .....
Solyc11g069240_SlIDD6 .....FLSTP.STTTSTLP.HELVQV
AT1G03840_MGP/AtIDD3 .....IEDRMAPQPHSPQEDYNWVFGNANNH
AT1G14580_BLJ/AtIDD6 .....NNQSLMNHGHLISLG...DN
AT1G25250_FAL/AtIDD16 .....NAS.SAPP
AT1G34370_AtSTOP1 .....
AT1G55110_AtIDD7 .....NSNLHG.PMKQE
AT1G68130_AtIDD14 .....VTNGSIEL
AT2G01940_SGR5/AtIDD15 .....SHHHNNH
AT2G02070_RVN/AtIDD5 .....LAGNNNIKQSPMSFQQNLMQFSH
AT2G02080_IME/AtIDD4 .....PNNNNQSPMNQHGLIQFDPVDN
AT2G24990_AtIDDa .....GEISV.EDEIADS
AT3G13810_AtIDD11 .....NNSNNHLHFTFPMKQE
AT3G45260.1_BIB/AtIDD9 .....SASDSLQNLWHLQOQ.SSHQ
AT3G50700_AtIDD2 .....NGVFAGLFESSASP
AT4G02670_AtIDD12 .....TAALSAT...
AT5G03150_JKD/AtIDD10 .....LFPSSSSSLPDFS GHHQFQI
AT5G22890_STOP2 .....
AT5G37350_AtIDDb .....GEISV.EDEIADS
AT5G44160_NUC/AtIDD8 .....QDIAPPQ...PQPDYDWFVGNAKAA
AT5G60470_EGRET/AtIDD13 .....STSDSVHNLWKLQEECAHQ
AT5G66730_ENY/AtIDD1 .....HSNNNGGYAGL FVSSSTASP
Os03g0197800_OsIDD1 .....VAPTSQSLSSSMFAPPSVAQ
Os01g0195000_OsIDD2 .....QQQLEAMAGAGNPAA
Os09g0555700_OsIDD3 .....FGPEDGQSQAGQGSLLHGKPAAFHDLMLQLPVQHQ
Os02g0672100_OsIDD4 .....QGFGDGGDGS GPHGLQKPA.FHGLMQLPDLQ
Os07g0581366_OsIDD5 .....TGSSVTNAIAPATTTSTFAG
Os08g0554400_OsIDD6 .....GGDDGQAHT...SLLHGKPA.FHGLMQLPQEQG
Os02g0518500_OsIDD7 .....FPLDGSVTSYP
Os01g0242200_OsIDD8 .....GKLSSSNASE
Os01g0935000_OsIDD9 .....PLSMAGCMLS LAAP
Os04g0566400_OsIDD10 .....QDFGDD.AGNGQHSFLQAKP.FHGLMQLPDLQ
Os01g0572300_OsIDD11 .....VQNCGYAVKPEMAP
Os08g0467100_OsIDD12 .....GSLGGTPVATAVGY YASSSPHS
Os09g0449400_OsIDD13 .....GGAAAAPGGMGACFYAAAHQHH
Os03g0237250_OsIDD14 .....HEQHATTM
Os01g0888700_OsIDDa .....KELAASGFTRKEQ
Os01g0871200_OsIDDb .....
Os03g0838800_OsIDDC .....
Os04g0165200_ART2 .....
Os07g0162300_OsIDDe .....GDMVANDEITPT
Os10g0419200_Ehd2 .....HQLLLPQFQQP
Os08g0562300_OsIDDF .....
Os02g0572900_STOP1 .....
Os12g0170400_DART1 .....

```

Figure S1. Multiple alignment of *IDD*-like transcription factors in Arabidopsis, Tomato and Rice. highly conserved amino acids are indicated in red characters and boxes.

Solyc01g005060_SlIDD12 EE.....AHLKLSIGS.....
 Solyc01g007120 DELEK.....
 Solyc01g099340_SlIDD10MS.....SATALLQQAQMGA.....
 Solyc02g062940_SlIDD17 SLPSQAPQFTDW.....FQSVAPSPPPDIEPPSSMEPI SLCLAMN.....
 Solyc02g085580_SlIDD1 SLPSQAPVFSDI.....FRAMAPEHTLEMAPPSSSTEPISLGLAMS.....
 Solyc03g098070 DH.....SAHNLQLSIGS.....
 Solyc03g121660_SlIDD11 LSSS.....IFQSSRFSDQDYTQS.HQHHQ.....
 Solyc04g008500_SlIDD4 NNNNSS.....SSTTMFNLNFFQNN.....LS
 Solyc04g056320_SlIDDb HVNSSYS.....DILRAIETEQVMAVEPI SLSLSSSLYLSN.....
 Solyc04g080130_SlIDD18 HN.....NNYIVQND.....
 Solyc05g054030_SlIDD5 SSSS.....IFPATRLDQQYSQSSHKDLN.....
 Solyc06g062670_SlIDD2
 Solyc06g065440
 Solyc06g072360_SlIDD9 D.....HNLQLSIGS.....
 Solyc06g075250_SlIDD7 AAHN.....NTQQWFINGTGVGDDSGIGSSSSQLPS.....
 Solyc07g053570_SlIDD8 APPVSYNN.....NNHNWDQFIGSKTSPINN.....
 Solyc08g063040_SlIDD16 MSAT.....ALLQKAAQIGVTSSSHTANNMS.....
 Solyc08g080850 VFIQS.....
 Solyc09g007550_SlIDD13 MVQIP.....SHNMFQTNQILNPTPTTTT.....
 Solyc09g065670_SlIDD15 IPLNP.....NHTHEENHHQITHPVPIKTE.....
 Solyc09g074780_SlIDD3 VAQQG.....GQLSSVPMASATALLQKAAQMGA.....
 Solyc10g084180_SlIDD14 MIQMQ.....SQNVFGSSNSTSANFSIAEA.....
 Solyc11g017140
 Solyc11g066420
 Solyc11g069240_SlIDD6 APHANMLGSSSLHKNNNNNNNNQWVFNDD..GGDAIITSSSMLMP.....
 AT1G03840_MGP/AtIDD3 GELIT.TS.....DSLITHDNNINIVQSKEN.....
 AT1G14580_BLJ/AtIDD6 NNN.....NHNFFNLAYFQDTK.....
 AT1G25250_FAL/AtIDD16 ES.....LELQLSIGM.....
 AT1G34370_AtSTOP1
 AT1G55110_AtIDD7 ES.....QHYYQNI PPWLISSNPNPNGN.....
 AT1G68130_AtIDD14 QL.....LPSRNCAD.....
 AT2G01940_SGR5/AtIDD15 DT.....TNLNLISIAP.....
 AT2G02070_RVN/AtIDD5 DNHNSA.....PSN.VFNLSFLSGNNGVTATSNPNAAAAAAASV
 AT2G02080_IME/AtIDD4 INLKSSG.....TNSFFNLGFFQENT.....
 AT2G24990_AtIDDa VFMKS.....
 AT3G13810_AtIDD11 QQSND.....HIMNYHHSI PPWLAPQPHALTESM.....
 AT3G45260.1_BIB/AtIDD9 WLLNE.....NNNNNNLQRGISKNQEEHEM.....
 AT3G50700_AtIDD2 SIYTTT.....SSSKSLFASSSSIEPI SLGLST.....
 AT4G02670_AtIDD12
 AT5G03150_JKD/AtIDD10 PMTST.....NPSLTLSSSSTSQOTSASLQ.....
 AT5G22890_STOP2
 AT5G37350_AtIDDb VFMKS.....
 AT5G44160_NUC/AtIDD8 SACID.NN.....N..THDEQITQ.NANAS.....
 AT5G60470_EGRET/AtIDD13 WLLNE.....YMNNKNIFHKGIFKNQEDEIK.....
 AT5G66730_ENY/AtIDD1 SLYASS.....TASPSLFAPSSSMEPI SLCLSTNPSL.....
 Os03g0197800_OsIDD1 APQYADP.....IGVAGGQHQRAPVAKPPALCLAPN.....
 Os01g0195000_OsIDD2 MYGS.....ARLDQEEFIGSSTPESGGAQQAG.....
 Os09g0555700_OsIDD3 QSGNGN.....LLNLGFFS..GSNGG.....
 Os02g0672100_OsIDD4 NGTGGPSP.....SGPGLYNLGYIANSANSSGSSSHGHASQGMNTN
 Os07g0581366_OsIDD5 LFAVTT.....SSTPQRSRLRDLIGVDPFTFLCLAIG.....
 Os08g0554400_OsIDD6 SNGGG.....LLNLSEYS..GGNGHHHHHHE..GRLVF
 Os02g0518500_OsIDD7 YMS.....MNSPYMSATALLQKAAEMGA.....
 Os01g0242200_OsIDD8 LTS.....ATAA.....
 Os01g0935000_OsIDD9 LSSPF.....LPGCKLG.....
 Os04g0566400_OsIDD10 NGAGGPGA.....PGPNLNLGFFANNGNSSG.SSHEHASQGLMSN
 Os01g0572300_OsIDD11 WPTT.....MPYDHHHPLLQPLCNANAAATA.....
 Os08g0467100_OsIDD12 PAAALPSRQ.....PVADAMRLQLSIGFGGA.....
 Os09g0449400_OsIDD13 PTGVSQCN.....DASTQLQLSIGR.....
 Os03g0237250_OsIDD14 TT.....TKLQLSIGP.....
 Os01g0888700_OsIDDa VEMDK.....
 Os01g0871200_OsIDDb
 Os03g0838800_OsIDDb
 Os04g0165200_ART2
 Os07g0162300_OsIDDe VLVQTL.....
 Os10g0419200_Ehd2 PSSPP.....AYFDHLAFGGGGGVITG.....
 Os08g0562300_OsIDDF
 Os02g0572900_STOP1
 Os12g0170400_DART1

Solyc01g005060_S1IDD12 SS PNHEVLNL.....
Solyc01g007120 LIEGELENHSDSDDEGTADDEE.....
Solyc01g099340_S1IDD10 TVNNNMNSTLFG.....
Solyc02g062940_S1IDD17 HGSSVFGSTG.....QERMQYAAAP.....
Solyc02g085580_S1IDD1 HSSSIFRPAG.....QERRQYAPAP.....
Solyc03g098070 SDFNESSENANEKRSSDALRLKDEATEQLRV.....
Solyc03g121660_S1IDD11 QGFMNPNPSLSGPT.....SGA.....
Solyc04g008500_S1IDD4 TNSGILGDHHHHHRHDNN.....SNISCSIPSLYG...VQVLESSNTTFSSG...
Solyc04g056320_S1IDDb NRASLFOEHTGGHGHGHGHQHYGSATM.....
Solyc04g080130_S1IDD18 IEVKEIIEEATQVTRLKSEANEILKI.....
Solyc05g054030_S1IDD5 LHHQNPNPNLRGPTLGYDSMGESGV.....
Solyc06g062670_S1IDD2
Solyc06g065440
Solyc06g072360_S1IDD9 SDLSENNNDTHRWRND.....VEGLRH.....
Solyc06g075250_S1IDD7 RVLKKEEENKRNMSSETISSMYNNHNE..T
Solyc07g053570_S1IDD8 AEQLSNTSSANISVPSLFSQQQIALSSPSA.....
Solyc08g063040_S1IDD16 ATFFSPTTST.....
Solyc08g080850 FIPKTLDHVKDAEADVQRIISGEDTGD.....
Solyc09g007550_S1IDD13 TN...TNTNT.....NTPATPN.....
Solyc09g065670_S1IDD15 SIHFPISSSLFFYHDQHYVPVFRHGSFS.....
Solyc09g074780_S1IDD3 TASSSINSPMMQKSFVTSAMAGPDISITR..P
Solyc10g084180_S1IDD14 YNSLYSDSQN.....SQLTKQN.....
Solyc11g017140
Solyc11g066420
Solyc11g069240_S1IDD6 RVLK.EEEENK.....TISPMYNN.....
AT1G03840_MGP/AtIDD3 ANGATSLSVPSLFSVSDQITQDANAASAVA...
AT1G14580_BLJ/AtIDD6 NSDQTGVPSLFTN.....
AT1G25250_FAL/AtIDD16 ARTSAQARHNEK.RETSLTKERAN.....
AT1G34370_AtSTOP1
AT1G55110_AtIDD7 NGNLFPVVASSVNT.....GRSSFP.....
AT1G68130_AtIDD14 TSLSLSIGTMDQ.KTMSEVEKKSYE.....
AT2G01940_SGR5/AtIDD15 SSSYQHYNFDRIKEIMASEQIMKI.....
AT2G02070_RVN/AtIDD5 SGNLMISNHYDGENAVGGGGEGSTGLFPNNLMSSADRISSGSVPSLFSSSMQSPNSA...
AT2G02080_IME/AtIDD4 KNSETSLPSLYSTD..VLVHREENLNAG...
AT2G24990_AtIDDa YIPKSLDAVNNPEADVAKITSGQDTGD...
AT3G13810_AtIDD11 N...PNPSNGGGG...GGSLFS.....
AT3G45260_1_BIB/AtIDD9 KNVISNGSLFSSEARNNTNYYNQNGG...
AT3G50700_AtIDD2 HGSSFLGSN.....RFHA.....
AT4G02670_AtIDD12 ALLQKATS.....
AT5G03150_JKD/AtIDD10 HQTLDKSSFSPLF...SSSENKQNK.....
AT5G22890_STOP2
AT5G37350_AtIDDb YIPKSLDAVNNPEADVAKITSGQDTGD...
AT5G44160_NUC/AtIDD8 LTTTTTSLAPSLSFSSDQPQANANSN...V...
AT5G60470_EGRET/AtIDD13 KGNISGSNPTDGNIASLFSYNQEA.....
AT5G66730_ENY/AtIDD1 FGPTIRDPP.....HFLTPLPP.....
Os03g0197800_OsIDD1 ASSSLFTAPVP.....ADRQQFAPPPPPS...
Os01g0195000_OsIDD2 LSFGFSSTSSAPPH.....P.A.....
Os09g0555700_OsIDD3 VDQFNG.....GAGNGGGG...SVTSSG..LAGNHGGGGGGGPPSLYNSSE..P
Os02g0672100_OsIDD4 TDQFSE.....GGGGGGGGGS...ETSAAALFGAGGNFSGGDHGHQVSPAGMYANDQ
Os07g0581366_OsIDD5 APSSLFPQTNA.....SDPCSFAPP...
Os08g0554400_OsIDD6 PDQFNGVAAGNGARAGSGEHGNS...GNNADSGSIFSGNMMGGGGGFSLSYSSD..Q
Os02g0518500_OsIDD7 KTSQDPISPILLKSFNNLTSSRDHMNIS..S
Os01g0242200_OsIDD8 AKEAESVPSVFSNQHAKPAAPTD.....
Os01g0935000_OsIDD9 VDAARDAAMVFPPPPPPAGSAAAI.....
Os04g0566400_OsIDD10 DQFSC.....GAGGGGGLTRR...RRGSPAVTSLVATMFLQGSTTIKRCCR...
Os01g0572300_OsIDD11 QSSATSAPPTTPQL.....PAA.....
Os08g0467100_OsIDD12 RDDGNNSSSSSGEVSASATRLKAAHEQLRL...
Os09g0449400_OsIDD13 DEVMGAAAGTSDEASAAAT.AKEQAREQLRQ...
Os03g0237250_OsIDD14 AAVVAAASGGGGACAAAAGGEEQREEVRR...
Os01g0888700_OsIDDa YIDQNAEEES.SDDDSTSEQDNEDGDVA..V
Os01g0871200_OsIDDb
Os03g0838800_OsIDDb
Os04g0165200_ART2
Os07g0162300_OsIDDe YVKQCEADIVNMSLMQRPSFANEPTAD...
Os10g0419200_Ehd2 SSCNDDNSSIAGDVMVAAGGDSVSFG...
Os08g0562300_OsIDDe
Os02g0572900_STOP1
Os12g0170400_DART1

	250	260	270	280
Solyc01g005060_S1IDD12	VMADKAYAEFARRNAKREMEYAEREFENAKR.....		IRQQ
Solyc01g007120	DINNTNVKQLESDDLAKEDVN.....		
Solyc01g099340_S1IDD10	VQIPIQSNHDHDDQNETQ.....	IGSILQG.....	FGGSML
Solyc02g062940_S1IDD17	QPSMSATALLQKAAQMGATATN.....	SLLRGLG.....	ILSS
Solyc02g085580_S1IDD1	QPAMSATALLQKAAQMGAAATS.....	SFLRGLG.....	VMSS
Solyc03g098070	AISEKAYAEARQQAARQIELAEQEFANAKR.....		IRQQ
Solyc03g121660_S1IDD11	MASPHISATALLQKAAQMGATMSNKASTVSAVSSGPGPAM.....		LMRPHQIH
Solyc04g008500_S1IDD4	PIMSATALLQKAAQMGSSSTS.....	NISA.....	TA...
Solyc04g056320_S1IDDb
Solyc04g080130_S1IDD18	QPALSATALLQKAAQMGSTTSN.....	NSFLRGLG.....	LAMS
Solyc05g054030_S1IDD5	AMEEKAMAIEKRQEAKCLIELANLEMAKAME.....		IRQS
Solyc06g062670_S1IDD2	VSPVHISATALLQKAAQFGATISNKASAVTATAAYTG..T.....		AKIPHNTH
Solyc06g065440
Solyc06g072360_S1IDD9	ALAEKVYAEETRKEARREIELAEELSNARR.....		IRRQ
Solyc06g075250_S1IDD7	TAPATHMSATALLQKAAQMGSTRSN.....	SALFGTGF.....	LMG.SS
Solyc07g053570_S1IDD8	NMSATALLQKAAQIGATTTT.....	DPS.....	I FLGN
Solyc08g063040_S1IDD16	TTGIAMSGSGSAGVARQYHPFE.....	NNNNNNNT.....	NTDFVTG
Solyc08g080850	MY.Y.KTITGLKQALTAATNSSAEDQHLQIDELGQETAAAAAETNKPSD.....		.....
Solyc09g007550_S1IDD13	PPIPMSATALLQKAAQMGSTKST.P.NYFSNTFG.....		VMHSSS
Solyc09g065670_S1IDD15	IPSPQLAATALLQRAATTMGNTSTVNVHVNSTMAH.....		LNRGTL
Solyc09g074780_S1IDD3	SPNYDNFQMQQDSNNHQSQSQNQN.....	LAAVIND.....	MGIYSG
Solyc10g084180_S1IDD14	STTPMSATALLQKAAQMGSTKSN.QSTFFSNNFS.....		KLNSSS
Solyc11g017140
Solyc11g066420
Solyc11g069240_S1IDD6	SHMSATALLQAAQIGSTRSNNNSPLFSNQFG.....		LMTSSS
AT1G03840_MGP/AtIDD3	NMSATALLQKAAQMGATSSSTPTTTTITDQS.....		AYLQS
AT1G14580_BLJ/AtIDD6	GADNN.....	GPSA.....
AT1G25250_FAL/AtIDD16	EEARKAEETRQEAKRQIEMAEKDFEKAKR.....		IREE
AT1G34370_AtSTOP1
AT1G55110_AtIDD7	HPSPMSATALLQKAAQMGSTKSTTPEEEERSS.....		RSSYNL
AT1G68130_AtIDD14	KGETSLEREARETRKQTEIAELEFAEAKR.....		IRQH
AT2G01940_SGR5/AtIDD15	AMKEKAYAEAKREARQREIAENEFANAKK.....		IRQK
AT2G02070_RVN/AtIDD5	PHMSATALLQKAAQMGSTSSN.....	NNNG.....	SN...
AT2G02080_IME/AtIDD4	SNVSATALLQKATQMGSVTSN.....	DPSA.....	LFRGL
AT2G24990_AtIDDa	MLY.QTITGLKDALPKIE.....	EQKIEVNDE.....	.....
AT3G13810_AtIDD11	LASPMSATALLQKAAQMGSTKTPPLPPTTAYE.....		RSTHNN
AT3G45260.1_BIB/AtIDD9	QIASMSATALLQKAAQMGSKRSS.SSSSNSKTFG.....		LMTS.I
AT3G50700_AtIDD2	QPAMSATALLQKAAQMGAASSG.....	GSLHLGLG.....	IVSS
AT4G02670_AtIDD12	LSSTTFGGGGQTR...SIGHHRHLTNVNEFLG.....		VDRVMM
AT5G03150_UKD/AtIDD10	PLSPMSATALLQKAAQMGSTRSN.SSTAPSFAG.....		PTMTSS
AT5G22890_STOP2
AT5G37350_AtIDDb	MLY.QTITGLKDALPKVD.....	EQKIEVNAE.....	.....
AT5G44160_NUC/AtIDD8	NMSATALLQKAAEIGATSTT...TAAATNDPS.....		TFLQS
AT5G60470_EGRET/AtIDD13	NMASFSATLLQKVAQTGTP..S.SSETSTTMFG.....		QMTSSI
AT5G66730_ENY/AtIDD1	QPAMSATALLQKAAQMGSTGSG.....	GSLRGLG.....	IVST
Os03g0197800_OsIDD1	PSPHMSATALLQKAAQMGATSSS.....	SFLRCLG.....	LDMS
Os01g0195000_OsIDD2	ASSAHMSATALLQKAAQMGATLSRPSSSHAMAA.....		AAAATH
Os09g0555700_OsIDD3	AGTLPQMSATALLQKAAQMGATTSYNSAGGAGGASS.....		LLRGA
Os02g0672100_OsIDD4	AMMLPQMSATALLQKAAQMGSTSS.....	ANGAGAS.....	VFGGG
Os07g0581366_OsIDD5	APHMSATALLQKAAEVBGASQSS.....	SFLKEFG.....	LAAS
Os08g0554400_OsIDD6	TVPPPQMSATALLQKAAQMGATSS.....	GGAGSVNS.....	LLRGL
Os02g0518500_OsIDD7	RSQDLSLGNSTVNSDCMKTTEDENSYMIGRGNILIN.....		APWSSG
Os01g0242200_OsIDD8	MSATALLQKAAQIGAVTST.....	AAMPL.....	VSPFE
Os01g0935000_OsIDD9	MSATALLQKAAELGATST.....	GCGYGG.....	VAFPA
Os04g0566400_OsIDD10	RCRRPALLQKAAQMG.ATSS.....	ANGPGS.....	MFRG.
Os01g0572300_OsIDD11	AAAAHLSATALLQKAAQMGATIGGAGTGAAGAH.....		YAHMASP
Os08g0467100_OsIDD12	AMAEKAAADEARAQAKRQELADQELATARR.....		MRYQ
Os09g0449400_OsIDD13	AMAEKEAAGEARAQARRQVELAEQELATARR.....		MRHQ
Os03g0237250_OsIDD14	ALEEKTAADAARERAREEAAAAAERALEDARR.....		ARHR
Os01g0888700_OsIDDa	KIGSLKIAEQDSAEVDPCTLASKDSNEPETFAKENETSTSCSGENNSINPSP.....		.....
Os01g0871200_OsIDDb
Os03g0838800_OsIDDb
Os04g0165200_ART2
Os07g0162300_OsIDDe	KLYNQPLLGFVRNKNKPTK...NQVQSEEP.....		.....
Os10g0419200_Ehd2	LTSEGSVTMHAGDVGRRRLTRDFLGVVDHDAG.....		EVDEL
Os08g0562300_OsIDDF
Os02g0572900_STOP1
Os12g0170400_DART1

Solyc01g005060_S1IDD12 AQAELI.....
Solyc01g007120
Solyc01g099340_S1IDD10 QNNGDD.....HHKSSRV.....
Solyc02g062940_S1IDD17 SS.....SSSGQHEWNGRQID.....
Solyc02g085580_S1IDD1 TS.....SNGHQEWSGRPSD.....
Solyc03g098070 AQAEL.....
Solyc03g121660_S1IDD11 VSATATAAESVSNATDFGLNLSSREDLPTGFFNSLAS.....
Solyc04g008500_S1IDD4 SLFKA.....FGSNTSGS.....
Solyc04g056320_S1IDDb
Solyc04g080130_S1IDD18 PS.....TSTPEENSLARRTN.....
Solyc05g054030_S1IDD5 VCASS.....
Solyc06g062670_S1IDD2 VSVTST..DSATKQTQQ..KLSSREDLTT.....
Solyc06g065440
Solyc06g072360_S1IDD9 AQMEL.....
Solyc06g075250_S1IDD7 FSKSNGQ.....GQFATHDQN.....
Solyc07g053570_S1IDD8 FSMNNCSNNNNKNDNNKFCGFVST.....
Solyc08g063040_S1IDD16 NTSFPDF.....GASVTPG.....
Solyc08g080850
Solyc09g007550_S1IDD13 SPSSNN.....TTQIFNNN.....
Solyc09g065670_S1IDD15 THVTPNG.....FLSPGSEN.....
Solyc09g074780_S1IDD3 ILMSND.....QNNDDGGY.....
Solyc10g084180_S1IDD14 SSSPNTF.....TFTSLQSCE.....
Solyc11g017140
Solyc11g066420
Solyc11g069240_S1IDD6 LSMKN.....SSSSSS.....
AT1G03840_MGP/AtIDD3 FASKS.NQIVEDGGSDR.FFASFGSNS.....
AT1G14580_BLJ/AtIDD6 TSSS.....SSSVVVDN.....
AT1G25250_FAL/AtIDD16 AKTEL.....
AT1G34370_AtSTOP1
AT1G55110_AtIDD7 ITTTMAA.....MMTSPP.....
AT1G68130_AtIDD14 ARAEL.....
AT2G01940_SGR5/AtIDD15 AQAEL.....
AT2G02070_RVN/AtIDD5 TNNNN.....NASSILRS.....
AT2G02080_IME/AtIDD4 ASSSN.....SSSVIANH.....
AT2G24990_AtIDDa
AT3G13810_AtIDD11 LTTTMAA.....MMTSPSGFIS.....
AT3G45260.1_BIB/AtIDD9 FNKNQ.....
AT3G50700_AtIDD2 TS.....TSIDA.....
AT4G02670_AtIDD12 TSASSSE.....YDQLVVDG.....
AT5G03150_JKD/AtIDD10 SATASP.....PPRS.....
AT5G22890_STOP2
AT5G37350_AtIDDb
AT5G44160_NUC/AtIDD8 FPLKSTDQTTSYDSGK.FFALFGSNN.....
AT5G60470_EGRET/AtIDD13 FNNTM.....
AT5G66730_ENY/AtIDD1 TS.....SSMELSNH.....
Os03g0197800_OsIDD1 SSSSAP.....PSSSGQQQHHHHHH.....QETMQVPLPASSLP.....
Os01g0195000_OsIDD2 NSSSSAA.....TTNAPPPP.....
Os09g0555700_OsIDD3 SSHG.....ISVGEGP.....
Os02g0672100_OsIDD4 FAGSSAPSSIPHGR.GTTMVDQGMHL.....
Os07g0581366_OsIDD5 TSSSPPSKLSQGRFTTGNTPTTSHPHPHPHPPHPQGRFMDNVPQPPPAKLPHRMFTD.....
Os08g0554400_OsIDD6 GSGGGGALNGKPAAGAAGFIMSGESS.....
Os02g0518500_OsIDD7 IMRPGT.....VPLIG.....
Os01g0242200_OsIDD8 PTKPGGATASPAD..ECGKFDGAALFA.....
Os01g0935000_OsIDD9 MGIAGGLDRLPAIGHHLAPYDDVVVPA.....
Os04g0566400_OsIDD10 FVGSS.....PHMRPAAQHMDQSDAHL.....
Os01g0572300_OsIDD11 AGAGAPA.....GGSATFGL.....
Os08g0467100_OsIDD12 AQVEL.....
Os09g0449400_OsIDD13 AQVEL.....
Os03g0237250_OsIDD14 ARGEL.....
Os01g0888700_OsIDDa
Os01g0871200_OsIDDb
Os03g0838800_OsIDDC
Os04g0165200_ART2
Os07g0162300_OsIDDe
Os10g0419200_Ehd2
Os08g0562300_OsIDDF
Os02g0572900_STOP1
Os12g0170400_DART1

	290	300	310	320
Solyc01g005060_SlIDD12	ERAKQLKEEAINRISS	SILEIT	HACKNK	FQIDN
Solyc01g007120	HQTGDDKDDNHQVGD	ENDEP	EEEEEE	AESEDDPELEKSL
Solyc01g099340_SlIDD10	LQNEQGWFNNNNNNS	TGLFNEK	QRTLNEAG	HSNEE
Solyc02g062940_SlIDD17	TDGATLAAG	LGLGLPCD	DGSG	LKELMLG
Solyc02g085580_SlIDD1	ANGASLAAG	LGLGLPCD	AGSG	LKELMLG
Solyc03g098070	DKANALKEHAIKQIN	STLSQIT	CHSCKQK	FQSTR
Solyc03g121660_SlIDD11	YGNKAANP	SAVITP	VTIPLST	APHPTPSTLQDMMS
Solyc04g008500_SlIDD4	SSSGTKSDHQAFNFG	SDITD	SGIINA	YGGGSGHEGY
Solyc04g056320_SlIDDb	ALGHVKLESNINAE	VPGLGIQLH	GHS	GFTDLMMGPSIS
Solyc04g080130_SlIDD18	SSS	SHVMKIIKCS	SSCNKQFQSVSS	
Solyc05g054030_SlIDD5	ITGPANNISGIMT	SFNGFD	SGTMFEDA	ILFGGFNLSKKN
Solyc06g062670_SlIDD2	EKAQVLKEEAIRKIN	FTLSQIT	CYACKQK	FQPKKT
Solyc06g072360_SlIDD9	FNGLMMHSPNNNS	NQGNRLL	FQDMNST	SLGNASGKNSDPFN
Solyc06g075250_SlIDD7	PTNNSISNSLGS	DVDQSSSV	NDFSA	TIHPIQMYPKRRH
Solyc07g053570_SlIDD8	FMEQVHDMQNM	MATTAP	SLPCTSF	DEGFGRGALMRQ
Solyc08g063040_SlIDD16	GESETETESDDDD	DESDC	SEGSSD	GKPTAADKKAAR
Solyc08g080850	EIHQAF	AQOTEDYN	Q	TENILINGCPNMNSVNSKAINL
Solyc09g007550_SlIDD13	IPGNWQKRDNL	TRDFLGLT	GDH	HHHHHDDHSSSAGSGVGG
Solyc09g065670_SlIDD5	IKNVTEVLD	RDNHNSHT	NDRVR	NQTMVQNGSND
Solyc10g084180_SlIDD14	TTDQIFAKK	SEDYTT	SLLSQSN	NGLFGCPNFTSSGINKSINL
Solyc11g017140	ASNVAIHENVQGN	NGLLIG	ATNSTTF	VANNAN
Solyc11g069240_SlIDD6	VELMSNNNGLHEI	GNPRNG	VTVVS	GMGLQNPWKRRR
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AT1G14580_BLJ/AtIDD6	EKAHVVEEA	IKRINAT	MMEIT	CHSCKQL
AT1G25250_FAL/AtIDD16	EPGF	FQDY	YMMNHQ	HGGGEAFN
AT1G34370_AtSTOP1	EPGF	FQDY	YMMNHQ	HGGGEAFN
AT1G55110_AtIDD7	EPGF	FQDY	YMMNHQ	HGGGEAFN
AT1G68130_AtIDD14	HKAHLFRE	EASRRIS	ATMMQIT	CHNCKQH
AT2G01940_SGR5/AtIDD15	ERAKFLKE	QSMKKIS	STIMQV	TCTCKGQ
AT2G02070_RVN/AtIDD5	FGSGI	YGENESN	LQDL	MNSFSNP
AT2G02080_IME/AtIDD4	FGGGR	IMENDN	NGNLQ	GLMNSLA
AT2G24990_AtIDDa	EKEEE	EGEED	GESE	ESEEESE
AT3G13810_AtIDD11	SNNNH	VLFQ	YNAS	GFDNHGRE
AT3G45260.1_BIB/AtIDD9	AEN	IKTKE	VD	ERG
AT3G50700_AtIDD2		IVPHG	LGLGL	PCG
AT4G02670_AtIDD12	FTSTW	QKADRL	TRDFL	GLT
AT5G03150_UKD/AtIDD10	SSPM	MIQQ	LNNF	NTNVLREN
AT5G22890_STOP2	EEE	EEEE	EGSG	EES
AT5G37350_AtIDDb	EEE	EEEE	EGSG	EES
AT5G44160_NUC/AtIDD8	NIGL	MRS	SHD	HQEIENAR
AT5G60470_EGRET/AtIDD13	LNSY	CLTAK	N	EEEE
AT5G66730_ENY/AtIDD1	DALS	LAPG	LGLGL	PCSSGGSG
Os03g0197800_OsIDD1	EWPPR	LQPE	PSPML	SSG
Os01g0195000_OsIDD2	PTS	NVSST	CVGAG	GYGLAFEASHFIA
Os09g0555700_OsIDD3		ANER	SSYQ	NLMGSMASGG
Os02g0672100_OsIDD4	QSL	MNSL	AGGN	ADHQGMFG
Os07g0581366_OsIDD5	NSVQ	QWHHRS	NQQMEM	EPGPMPLPGG
Os08g0554400_OsIDD6	RSTAS	QTAENES	QLRE	LMNTLSATG
Os02g0518500_OsIDD7	LMNH	PF	SMRE	EKDNPSIFPEN
Os01g0242200_OsIDD8	AASH	H	NAN	LGGAMS
Os01g0935000_OsIDD9	ALQ	QTAT	QLVGF	DLGGLLPGLYGG
Os04g0566400_OsIDD10	NDL	MNSL	AGGG	VNAAMFGGT
Os01g0572300_OsIDD11	GLS	CLNTH	QDGG	GGGNLIPAGMMGL
Os08g0467100_OsIDD12	SRAH	VRD	HAIR	QVDATQLQIT
Os09g0449400_OsIDD13	SRAH	LRD	HAVR	QVNATLLQIT
Os03g0237250_OsIDD14	EKAL	ALRD	HAAR	LIAQVT
Os01g0888700_OsIDDa	SSNG	DAKE	P	TESQDNDSDDDSD
Os01g0871200_OsIDDb				
Os03g0838800_OsIDDC				
Os04g0165200_ART2	LDL	QNK	SS	EHSE
Os07g0162300_OsIDDe	LDL	QNK	SS	EHSE
Os10g0419200_Ehd2	ADL	STTAA	ACQGC	NFAAATTAACCAT
Os08g0562300_OsIDDF	ADL	STTAA	ACQGC	NFAAATTAACCAT
Os02g0572900_STOP1				
Os12g0170400_DART1				

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Solyc01g099340_S1IDD10SLTLDFLGLGG.....MRHR...NLHEMHQHQQEMSFE
Solyc02g062940_S1IDD17TPSVFGPKHPTLDDLGLGMA.AGGGSP...GLSALITSMGNLDVA
Solyc02g085580_S1IDD1TPSVFGPKHPTLDDLGLGMA.ASVGSP...GLSALLTSMGNLDMV
Solyc03g098070VSIADENNSLALSYSISGLSEGHHE.....VAANNINQNEHL
Solyc03g121660_S1IDD11 .SNFEDPFSILNPKNNNGSGNDDMTKDFLGLRPLSHS.DIFNIAGLVNS.....TP.
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Solyc04g080130_S1IDD18SKDATLTNNYYLSSSIYRR.....
Solyc05g054030_S1IDD5EDEDQQLYFNGSMNEEDHILTKDFLGLKPLSHTDDIFNIAALVN.....
Solyc06g062670_S1IDD2
Solyc06g080850TTTTTR.....TTSIDQNIHL
Solyc06g072360_S1IDD9 LMPRNNKKGQVNLSGNEA.MEGGLTRDFLGVGGN.....ESRPFLSK.NELAKFGNIS
Solyc06g075250_S1IDD7IQIEDSVKGVVEVGAGGGAGGQTRDFLGVG.....VQSICHPSINGLI
Solyc07g053570_S1IDD8GKENN.....EGLTRDFLGLRAFPHHRDFLSTTTPAALHYNMGSSAAA
Solyc08g063040_S1IDD16KENKKVKEEKREARKHKVPAKVKKKKKLAKAKKYR.....
Solyc08g080850 QALLQTTGGMHN.QNVHFN.LHNSLTRDFLGMGNE.....GGQPFPLPQ..ELAKFASIN
Solyc09g007550_S1IDD13GGGGQVLPFTNGNVGNLGLLSYGGNRMQDFQQTLYERDINSVLKHHPLGFGFAGA
Solyc09g065670_S1IDD5MLTVDFLGLGG.....ASRAPISNLQEQRRFEAAINQQ
Solyc09g074780_S1IDD3 EAIMQTVGMHNTQAVSMNGMDNCLTRDFLGLKHE.....GNCQFLPQ..EIVKFAFMN
Solyc10g084180_S1IDD14
Solyc11g017140
Solyc11g066420
Solyc11g069240_S1IDD6 LMMMQDKGK.....QGNLTRDFLGGGRN.....EKRLFQOQTHEMAKFENNK
AT1G03840_MGP/AtIDD3VDIG.NAGGGGQTRDFLGVG.....VQTICHSSSINGWI
AT1G14580_BLJ/AtIDD6SLFDLHFANNLSMGGSDR.LTLDFLGVN.....GGIVSTVN.....GRG
AT1G25250_FAL/AtIDD16VTADESTSLVMSYVSSATTEGE.....CE.....
AT1G34370_AtSTOP1
AT1G55110_AtIDD7GEEKNDVDDGGGETRDFLGLRSLMSHNEILSFANLGN.....CLN
AT1G68130_AtIDD14QTHCTDESTSLAVSYMSSATTEGE.....KASDRA
AT2G01940_SGR5/AtIDD15AATADETSLVVSYMSSANTDGE.....LENGF.
AT2G02070_RVN/AtIDD5DSPFGSYGGVKNGLSADKQSMTRDFLGV.....GQIVKSMSSGSGGFGQQQ
AT2G02080_IME/AtIDD4SIFDVQFGDNGNMSGSDK.LTLDFLGV.....GGMVNVNRRGGGGGGRG
AT2G24990_AtIDDaKEHKKVKEEKRESRKTTPKSVKRRKKKVKSPHKTR.....
AT3G13810_AtIDD11TAAAGSEKSTKSGGEGLTRDFLGLRPLMSHNEILSFAG.LGS.....CIN
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AT5G03150_UKD/AtIDD10 PFQSNRSGLNP..AQQMG.....LTRDFLGVSNHHP.HQTGRPPFLPQ..ELARFAPLG
AT5G22890_STOP2
AT5G37350_AtIDDbKEHKKVKEEKRESRKTTPKSVKRRKKKVKSPHKTR.....
AT5G44160_NUC/AtIDD8VDGGGEVGGGGQTRDFLGVG.....VQTLCHPSSINGWI
AT5G60470_EGRET/AtIDD13LTRDFLGVGSSD..QQLRHRHFPSSVPLTANHDIP
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Os01g0242200_OsIDD8HAGLKDAGGVGRETRDFLGVG.....VQALCS.SSIHGWI
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Os04g0165200_ART2
Os07g0162300_OsIDDeKENKKVKAEKREARKDKIPKAEKKKKRMMAKAKCKR.....
Os10g0419200_Ehd2RLPPVNETWSHNF.....
Os08g0562300_OsIDDF
Os02g0572900_STOP1
Os12g0170400_DART1

Solyc01g005060_S1IDD12
 Solyc01g007120
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 Solyc11g066420
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 AT1G14580_BLJ/AtIDD6
 AT1G25250_FAL/AtIDD16
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