

(I) (II) (III) (IV) (V)

G-x-G-x-x-G-x-V

1 10 20 30 40 50 60 70 80 90 100 110 120 130

Solyc07g063720 FSSANVIGEGGFQVYKGLPDGQE IAVKKLSKYSGGQVQE LKNEIVFISKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDCFIF DPSRKASLTWKNR

Solyc07g063710 FSSANVIGEGGFQVYKGLPSGQE IAVKKLSKYSGGQVQE LKNEIVLISKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DPSRKASLTWKNR

Solyc07g063700 FSSANVIGEGGFQVYKGLPNGQD IAVKKLSKHSGGQFQE LKNEIALISKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DSSRKASLTWKNR

Solyc07g063730 FSAHNVIGEGGFQVYKGLPNGQE IAVKKLSKHSGGQGLRE LKNEFVLISKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DPSRKASLTWKNR

Solyc02g006720 FSSANVIGEGGFQVYKGLRNGPE IAVKKLSSEYSGQGLQE LKNEILISKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DPNRKESLSKSR

Solyc02g030300 FSLNKLIGEGGFQVYKGLKDGQE IAVKKLSRYSAQGTDE FKNEVFIKAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DTPRRSLDWPCK

Solyc04g077340 FSLNKLIGEGGFQVYKGLLEDQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc04g077360 FSLNKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc04g077270 FSVNKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc04g077280 FSVNKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc07g063820 FSLANKIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc07g063770 FSLANKIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc04g077370 FSDKNKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc10g005440 FSNENKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc03g006770 FSDANKIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc02g079640 FSDANKIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc02g079640 FSPGKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc08g076050 FSEENKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc05g008310 FSEENKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc07g053120 FSNARKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc04g008400 A FHEOKKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc03g006720 FNEOKKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc02g079620 FSEITKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc07g063810 FSDOKKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc01g094830 FSEKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc07g053220 FSEKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc03g007790 FSELLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc06g036470 FSKLLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc08g059730 FSLKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc11g013880 FKEKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc03g005130 NDFDTKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc02g072070 FQKKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc07g055650 DDFSRLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc07g055640 B EDFSRKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc07g055640 B DDFSRLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc09g075910 NGFSKQLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

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Solyc03g078370 DGFKEELIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc03g078360 EHFKEOKKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc01g006520 KEFNEELIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc01g006530 EGFKEERKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc01g014520 NGFKEELIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc04g015460 FRNQITLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc04g078410 SNFSEELIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc09g011330 KNFKEELIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc07g055630 FSKKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc03g063650 DNFKQKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc03g006780 DDFSRLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc04g077300 FSVNKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc04g008370 SQFHEDKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Solyc04g008400 B SQFHEDKLIGEGGFQVYKGLVEEGQE IAVKKLSRTSHQGLDE YKNEVYIYIAKLQHRNLVKLLGCCLEGEERMLIYEFMPNSLSDYFIF DQTKKLLDWPCK

Consensus ..f..nklG.GgfG.V%kG.S.g.... i!i!Krls..s.gg.e f..ev..!...qHrnLvrllg.C.e.e..LvYgn.n.sld...f..l.u..r

H-R-D- L-K-x-x-N

Solyc07g063720 FEIAYVIGSRLGLYLHQDSRLRIHRLKTSNILLDGNHNAKADFGLAKJFGGGOVEG NTKRVIGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHAHL
FEIANGISRLGLYLHQDSRLRIHRLKTSNILLDGNHNAKSOFGLAKJFGGGOVEG KTKRVIGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHAHL
Solyc07g063700 FEIANGISRLGLYLHQDSRLRIHRLKTSNILLDGNHNAKSOFGLAKJFGGGOVEG KTKRVIGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHAHL
Solyc07g063730 FEIATIGSRLGLYLHQDSRLRIHRLKTSNILLDGNHNAKSOFGLAKJFGGGOVEG EKSIVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHAHL
Solyc10g066720 YEIANGISRLGLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG KTKRVIGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHAHL
Solyc02g030300 FHINGIATARGLLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHVYI
Solyc04g077340 FHINGIATARGLLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG KTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHAHL
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Solyc02g079640 FGTHINGIATARGLLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc03g120110 LNTIEGVAQGLLYLHKYSRLRVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc12g060680 FRIIEGTAQGLLYLHKYSRLRVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc08g076050 YEIEGTAQGLLYLHKYSRLRVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc08g076060 FETIEGTAQGLLYLHKYSRLRVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc07g053080 LGIEGTAQGLLYLHKYSRLRVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc05g008310 IETIEGTAQGLLYLHQDSRLRIHRLKTSNILLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc07g053120 FEITLGTARGLLYLHQDSRLRIHRLKTSNILLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc07g053130 FEITLGTARGLLYLHQDSRLRIHRLKTSNILLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc02g079530 VYIEEGTARGLLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc02g079540 VYIEEGTARGLLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc02g079550 AITIEGTTARGLLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc04g008400 A STIEEGVGRGLLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc04g058110 STIEEGVGRGLLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc03g006670 LDMHYGTARGLLYLHQDSRLRVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc03g006730 FNMHYGTARGLLYLHQDSRLRVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc03g006730 FDMHYGTARGLLYLHQDSRLRVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc02g079620 FNIKTGATKGLYVYMHDSRLTVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc02g079630 LNTIKGTARGLLYVYMHDSRLTVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc07g063750 FRIANGISRLGLYLHQDSRLRIHRLKTSNILLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc02g079710 HEITITGTARGLLYLHQDSRLRVHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc07g063810 EERWAHQITAGLLYLHQDSRLRIHRLKSNVLLDNLNPKISOFGLAKJFGGGOVEG NTKRVVGTGYHSPPEYAVGKYSKVDVSGVGLLVEISGRRNKRKFHLEHHH NLLGHANM
Solyc01g094830 FRYAVGTARGILYLHEECRCNTIHTDKPNTLLDQFSAKYSOFLAKJLKG-RDERS VLATHRGTRGLYAPCEITSGVATIAKADVSYGHMLLEISGRRNKRKFHLEHHH NLLGHANM
Solyc01g053220 QVALGTARGILYLHEECRCNTIHTDKPNTLLDQFSAKYSOFLAKJLKG-RDERS VLATHRGTRGLYAPCEITSGVATIAKADVSYGHMLLEISGRRNKRKFHLEHHH NLLGHANM
Solyc03g007790 FRYAVGTARGIAYLHEECRCNTIHTDKPNTLLDQFSAKYSOFLAKJLKG-RDERS VLATHRGTRGLYAPCEITSGVATIAKADVSYGHMLLEISGRRNKRKFHLEHHH NLLGHANM
Solyc06g036470 FRYAVGTARGIAYLHEECRCNTIHTDKPNTLLDQFSAKYSOFLAKJLKG-RDERS VLATHRGTRGLYAPCEITSGVATIAKADVSYGHMLLEISGRRNKRKFHLEHHH NLLGHANM
Solyc08g059730 FNIALGTARGILYLHEECRCNTIHTDKPNTLLDQFSAKYSOFLAKJLKG-RDERS VLATHRGTRGLYAPCEITSGVATIAKADVSYGHMLLEISGRRNKRKFHLEHHH NLLGHANM
Solyc11g013880 FNIALGTARGILYLHEECRCNTIHTDKPNTLLDQFSAKYSOFLAKJLKG-RDERS VLATHRGTRGLYAPCEITSGVATIAKADVSYGHMLLEISGRRNKRKFHLEHHH NLLGHANM
Solyc03g005130 FNIALGTARGILYLHEECRCNTIHTDKPNTLLDQFSAKYSOFLAKJLKG-RDERS VLATHRGTRGLYAPCEITSGVATIAKADVSYGHMLLEISGRRNKRKFHLEHHH NLLGHANM
Solyc02g070270 RKTIHDTAKGLYLHEECRCNTIHTDKPNTLLD

Consensus ..i..giargl.ylh.....iih.d.k..nilld.....kisdffgl.....gt.gy..pe.....k.dv.sfg...lei..g..n.....l...a..

(X)

(XI)

	261	270	280	290	300	310	320	328
Solyc07g063720	LWTEOK	-----	ALE-LWDECLKESFSE-SQ	---	VLRCIQVGLLCVQKLPEDRPTMASVVFAL			
Solyc07g063710	LWTEGN	-----	ALE-LWDECLKESFSE-SQ	---	VLRCIQVGLLCVQKLPEDRPTMASVVFAL			
Solyc07g063700	LWTEGN	-----	ALE-LWDECLKESFSE-SQ	---	VLRCIQVGLLCVQKLPEDRPTMASVVFAL			
Solyc07g063730	LWTEGN	-----	ALE-FMOERLKESFSE-SQ	---	VLRCIQVGLLCVQKLPEDRPTMASVVFAL			
Solyc10g006720	LLNEGN	-----	ALE-LWDECLKDSYVE-SQ	---	VLRCIQVGLLCVQKLPEDRPTMASVVFAL			
Solyc02g030300	LFKESR	-----	VME-VIDEQLRQSCNQ-YE	---	VERSAHVGLLCVQCPEDRPSMASVVLNL			
Solyc04g077340	LYKEDR	-----	SLE-LVDEQLADSCNI-SQ	---	VLRSIQVGLLCVQCPEDRPNMSSVVQNL			
Solyc04g077360	LYKEDR	-----	SLE-LVDEQLADSLHI-SQ	---	VLRLIHVGLLCVQCPEDRPNMSSVVQNL			
Solyc04g077270	LYKEDR	-----	SLE-LVDEQLAESCHI-SQ	---	VLRSIQVGLLCVQCPEDRPNMSSVVQNL			
Solyc04g077280	LYKEDR	-----	SLE-LVDEQLAGSCHI-SQ	---	VLRSIQVGLLCVQCPEDRPNMSSVVQNL			
Solyc07g063820	LWKEGR	-----	SLE-LVDPKLVDSCHI-SE	---	VQRSIHVGLLCVQCPEDRPSMSTVIMNL			
Solyc07g063770	LWNEER	-----	HLE-LVDPKLVDSYIT-SE	---	VLRSIHVGLLCVQCPEDRPNMSTVIMNL			
Solyc10g006710	LWREGR	-----	SSE-LIDPNLVESCHI-SE	---	LQRSIHVGLLCVQCPEDRPNMSSVVQNL			
Solyc04g077370	LYKEGR	-----	PLE-LIDLHITDSCYF-TE	---	LLRLIHVALLCAQHSPEDRPDMSVVVNL			
Solyc04g077390	LYKEGR	-----	PLE-LIDGHLMDSFIT-SE	---	LLRLIHVALLCAQCPEDRPMPTVILNL			
Solyc07g063780	LYKEGR	-----	STE-LIDECILSDSCST-YE	---	VVRSIGVGLLCVQCPEDRPSMSAVLNL			
Solyc07g063800	LNNEGR	-----	STE-LIDGHLMDSCSTPQE	---	VVRSIGVGLLCVQCPEDRPSMSAVLNL			
Solyc12g005290	LYKEGR	-----	SME-LLDGFPITGVCTP-E	---	VIRSIHVGLLCVQHPREDRPSMSSVVQNL			
Solyc02g079570	KHDEGR	-----	PHD-LVORSIADGQAHNE	---	ALRCIHALLCVQDLAAHRRPNMSSVVQNL			
Solyc10g005440	KHDEGT	-----	PHD-LVORSIADGQAHNE	---	ALRCIHALLCVQDLAAHRRPNMSSVVQNL			
Solyc02g079590	LWKEGS	-----	GSE-LIDPSFG-ESFSPSE	---	VHRCIQVGLLCVQCPEDRPNMSTVIMNL			
Solyc03g006770	LWREGG	-----	ASE-LIDSSVG-ESFSPCE	---	VHRCIQVGLLCVQCPEDRPNMSTVIMNL			
Solyc02g079640	LWKEDE	-----	ALN-AVDPLLS-GSYFACE	---	VLRCIHIGLLCVQCPEDRPTMSEVVFAL			
Solyc03g120110	LWKAES	-----	VVEELTOPVLTNESTPTNE	---	VHRCIHVGLLCVQCPEDRPNMSSVVQNL			
Solyc12g006840	LWREER	-----	ALE-LIDATLI-ESCSRDE	---	VHRCIHVGLLCVQCPEDRPNMSSVVQNL			
Solyc08g076050	LWKEGC	-----	ALE-LIDPALG-DLCTKL	---	LLRVIHVGLLCVQCPEDRPTMSEVVFAL			
Solyc08g076060	LWKEGC	-----	GLE-LIDPALG-DLYDTEQ	---	FLRVIHVGLLCVQCPEDRPTMSEVVFAL			
Solyc07g053080	KWKEGK	-----	ILE-LIDPSIR-ETCONNK	---	ATRCILVALLCVQCPEDRPTMSEVVFAL			
Solyc05g008310	LWTEOK	-----	SMD-LVQKLIH-ESCKKEE	---	RIKLTINIGLLCVQCPEDRPNMSTVIMNL			
Solyc07g053120	LWNEOR	-----	ALD-HMDQITV-DTFEDKE	---	VIKCYHVALLCVQCPEDRPNMSSVVQNL			
Solyc07g053130	LWKEOS	-----	ALE-VMDETIV-ESCDNE	---	VLKCYHVALLCVQCPEDRPNMSSVVQNL			
Solyc02g079530	CHIGNK	-----	IYE-LVDPKILHLG-KE	---	TVRCVQVGLLCVQCPEDRPNMSTVIMNL			
Solyc02g079540	LWNEKN	-----	IYE-LVDPKILHLG-KE	---	TVRCVQVGLLCVQCPEDRPNMSTVIMNL			
Solyc02g079550	LWNEKN	-----	ITK-LIDPKIFDSSFE-KQ	---	MYRCVHIGLLCVQCPEDRPNMSSVVQNL			
Solyc04g008400.A	LWKEQD	-----	LST-FIDPFILNPSSSE-ME	---	IKKCIQIGLLCVQCPEDRPNMSSVVQNL			
Solyc04g058110	LWKEQD	-----	LST-FIDPFILNPSSSE-ME	---	IKKCIQIGLLCVQCPEDRPNMSSVVQNL			
Solyc03g006720	LWTESK	-----	GLD-LMDKISMSRRA-AT	---	VLKCIHIGLLCVQCPEDRPNMSSVVQNL			
Solyc03g006730.B	LQTESK	-----	GLD-LMDKISMSRRA-AT	---	VLKCIHIGLLCVQCPEDRPNMSSVVQNL			
Solyc03g006730.A	LWTESN	-----	GLD-LMDKISMSRRA-AT	---	VLKCIHIGLLCVQCPEDRPNMSSVVQNL			
Solyc02g079620	IQSNGN	-----	RIE-LIDPMI-EKPGDENE	---	VLGCILVGLCCQCPEDRPNMSTVIMNL			
Solyc02g079630	LWNEGN	-----	RIE-LIDPMI-EKPGDENE	---	VLGCILVGLCCQCPEDRPNMSTVIMNL			
Solyc07g063750	LWNEGN	-----	RIE-LIDPMI-EKPGDENE	---	VLGCILVGLCCQCPEDRPNMSTVIMNL			
Solyc02g079710	YSCENQ	-----	MFESFFD					
Solyc07g063810	LYKEGR	-----	STE-LVDEYLGDSCT-SE	---	VERSIQVGLLCVQCPEDRPSMASVVLNL			
Solyc01g094830	QIV-EG	-----	NIAAVHDERLHGTY-NL-TE	---	AERVGLIATICIQDEESTRPSMGMVVKNL			
Solyc07g053220	VYVDEG	-----	DILSLDYRLDRRA-DRAE	---	LSKICKVAYMICQDEDEFQPSMGMVVKNL			
Solyc03g007790	ENT-EG	-----	TPEKVVDRLEGRI-EKEE	---	LIRALMVAFMICQDEESTRPTMGEVVKNL			
Solyc06g036470	ENT-EG	-----	TPKVVDRLEGRI-EKEE	---	LIRALMVAFMICQDEESTRPTMGEVVKNL			
Solyc08g059730	AME-EG	-----	KLEDILDRNLKVEE-EDER	---	VSIATKVALMICQDDMSLRPSMGMVVKNL			
Solyc11g013880	EFE-RG	-----	NMERIMOKKLSNQDNHEQ	---	VIRAIQVGFACIQDEQPSRPTMGMVVKNL			
Solyc03g005130	KYFKDH	-----	NVDDILDRKIQSYDSRAHFDL	---	VIRAIQVGFACIQDEQPSRPTMGMVVKNL			
Solyc02g072070	EKRENN	-----	QLIEHIGNYSDPQCNTSE	---	VIAHMKLAVMCLQDFTLRPSMGMVVKNL			
Solyc07g055650	RKSEOE	-----	QLMDHYOKN-EDMQLHREA	---	VTEHMSLAHMLQDGFQSKRPSMGLVVKAL			
Solyc07g055640.B	RKAEQK	-----	QLMDHYOKN-EDMQLHREA	---	VTEHMSLAHMLQDGFQSKRPSMGLVVKAL			
Solyc07g055640.A	RKAEQK	-----	QLMDHYOKN					
Solyc09g075910	CAR-SG	-----	RIDKLARSOPETILNDIKR	---	LERFVKVGLNCVHPDPTVRPSMGMVVKNL			
Solyc09g075920	CVR-NE	-----	KLRATVLDDEILHFN	---	FERHNVGLMCLCEPNLRPSMGMVVKNL			
Solyc11g005630	CFD-AG	-----	ELDKLVKDEEV	---	FERHNVGLMCLCEPNLRPSMGMVVKNL			
Solyc03g078370	CLV-EG	-----	EVDKLVGSEEV	---	LEGHISVATMICQDEPALRPSMGMVVKNL			
Solyc03g078360	CFV-EN	-----	DIRKLVGSEEV	---	LEGHISVATMICQDEPALRPSMGMVVKNL			
Solyc01g006520	CFD-QG	-----	HLERLVSDIERALNDKQ	---	LERFVHVGIMICQDEPALRPSMGMVVKNL			
Solyc01g006530	CYQ-QG	-----	THYQLVENDFANDMDKK	---	LEKFLVATMICQDEPALRPSMGMVVKNL			
Solyc01g014520	CYE-RN	-----	KLHLVGDDEALEIDIKR	---	FEKFLVATMICQDNPASRPNMGMVVKNL			
Solyc04g015460	ASANSQIYFPLFALEHMQKYLE		VDPVRLGNVKEEVEKLV		RYVALCCHEEPTLRPTMANVGMNL			
Solyc04g078410	DKHREN	-----	SERKSHIQITVDPRLNGKFDLEKHEIL		LEALQCSEEDRPTMCEVVDKHL			
Solyc09g011330	RKIQSG	-----	ED--TWVEKLVDPRLGKFSKNQAVTL		ETETGLSCVEQDRNKRPPTMASVVFQNL			
Solyc07g055630	RKYEQE	-----	KLIDHYOKNEDMQLHREA	---	VTEHMSLAHMLQDGFQSKRPSMGLVVKAL			
Solyc03g063650	KHYKA	-----	EKENHMDQRIAVGADSEE	---	LERALRIAFMLQDDERHPPHAGEVIKVL			
Solyc03g006780								
Solyc04g077300								
Solyc04g008370								
Solyc04g008400.B								
Consensus			d.....		v.l.c.q.....	rp.n..v..nl		