

gi|66811494| 1 -----MDDVEMKVMEMKMKSMFQ----- 0----- 2SALAAGVNPVLDLAREMSFNADLFQ----- MA 2SALAAGVNPVLDLAREMSFNADLFQ----- MA  
CMG033C|CMG033CT 1 -----MSWFGNS----- 8PEPPSGPSPMDLAKQEVDMMSDLFT----- E 8PEPPSGPSPMDLAKQEVDMMSDLFT----- E  
Esi0041\_0146 1 -----M----- 7ERNMVAASASMATTELEKVSLEN----- DASEA 7ERNMVAASASMATTELEKVSLEN----- DASEA  
Crel2\_g514900 1 -----M----- 9EQQVAAASATATATEYVQLEN----- EPSSA 9EQQVAAASATATATEYVQLEN----- EPSSA  
VOLCADRAFT\_120538 1 -----MAAKKQEVNVOKKOVNMQ----- 18----- KEOMFGIAKSKMEYRVDLEN----- 18----- KEOMFGIAKSKMEYRVDLEN----- 18-----  
LOC\_Os07g13950 1 -----MAKKGATPVDLEK----- 14----- IFGMAKQEMEYRVDLEN----- 14----- IFGMAKQEMEYRVDLEN----- 14-----  
Phpat\_001G145200 1 -----M----- 1----- MFNMAQQELESERVLEN----- 1----- MFNMAQQELESERVLEN----- 1-----  
106093|106093 1 -----MAGVPSDLEKKE----- 12----- IFGMAKSKMEYRVDLEN----- 12----- IFGMAKSKMEYRVDLEN----- 12-----  
PGSC0003DMG402020339 1 -----MAGVPSDLEKKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
LOC\_Os03g61019 1 -----MAGKPGFENLEKKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
GRMZM2G121743 1 -----MAGKPGFENLEKKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
GRMZM2G156848 1 -----MAGKPGFENLEKKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
PGSC0003DMG400020830 1 -----MAANNVREVDLEK----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Glyma02g47850 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Glyma15g36821|Glyma15g36821.1 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Medtr2g097870 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Cucsa\_207470 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Glyma14g00770|Glyma14g00770.1 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Cucsa\_146720 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Eucgr\_B02289 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
GSIVV01024832001 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
AT2G29530 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Carubv10024427 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Bra018381 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Bra039986 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
29751.t000033 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Potri\_001G246500 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
Potri\_009G039600 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
gi|17556370 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
gi|6912708 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
YHR005C-A 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----  
gi|85114782 1 -----MAGNISPSAEDKE----- 14----- IFGMAKSKMEYRVDLEN----- 14----- IFGMAKSKMEYRVDLEN----- 14-----

gi|66811494| 20 -GILDACSAKCI 30S -KYNEDGDLNVGSEVCAERCVQKWMETPKKVKQSKMSGTPQGOEVPO----EAPAAAPK 84KGWF 88  
CMG033C|CMG033CT 28 -KMTDSCFRKCV 38T -RYHDGEQGTGEGVVDRCVFKYMGAVORIGELHLEGQPM-----AAGGAPSV 870---- 88  
Esi0041\_0146 34 -KMSLFCFKCV 44VKMGEISDLNVSNGSCIDRCVSKYMEAEKVGVIKRAESLAAQGGVGGPAAGVPGV 104PGR\* 107  
Crel2\_g514900 33 -SMVSTCHERCA 43ARPYKEGTLNVGSEVCAERCVQKWMETPKKVKQSKMSGTPQGOEVPO----EAPAAAPK 84KGWF 88  
VOLCADRAFT\_120538 35 -SMVGTCHERCY 45ARPYKEGTLNVGSEVCAERCVQKWMETPKKVKQSKMSGTPQGOEVPO----EAPAAAPK 84KGWF 88  
LOC\_Os07g13950 39 -RPTQVCSKMT 49EASARPAAPHY-----VMSFLA----- 69----- 69  
Phpat\_001G145200 32 -KLTQCFNKCV 42EKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 83----- 83  
106093|106093 19 -KMTLTCFNKCI 29GSR-RESELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 70----- 70  
PGSC0003DMG402020339 30 -KLTQCFNKCV 40ENKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 81----- 81  
LOC\_Os03g61019 32 -KLTQCFNKCV 42EKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 83----- 83  
GRMZM2G121743 32 -KLTQCFNKCV 42EKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 83----- 83  
GRMZM2G156848 32 -KLTQCFNKCV 42EKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 83----- 83  
PGSC0003DMG400020830 32 -KLTQCFNKCV 42EKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 84----- 84  
Glyma02g47850 32 -KLTQCFNKCV 42EKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 84----- 84  
Glyma15g36821|Glyma15g36821.1 15 -KMTLTCFNKCI 25DNRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 67----- 67  
Medtr2g097870 33 -KMTLTCFNKCV 43PNRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 84----- 84  
Cucsa\_207470 1 -LITQCFDNKV 10DKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 38----- 38  
Glyma14g00770|Glyma14g00770.1 32 -KMTLTCFNKCV 42EKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 84----- 84  
Cucsa\_146720 33 -KLTQCFNKCV 43PNRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 85----- 85  
Eucgr\_B02289 33 -KLTQCFNKCV 43PNRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 85----- 85  
GSIVV01024832001 32 -KLTQCFNKCV 42EKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 84----- 84  
AT2G29530 53 PELDLCOTCFNKCV 65DKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 107----- 107  
Carubv10024427 33 -KLTQCFNKCV 43PNRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 84----- 84  
Bra018381 68 -KLTQCFNKCV 78DKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 120----- 120  
Bra039986 33 -KLTQCFNKCV 43PNRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 85----- 85  
29751.t000033 51 -KLTQCFNKCV 61DKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 103----- 103  
Potri\_001G246500 34 -KLTQCFNKCV 44DKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 86----- 86  
Potri\_009G039600 34 -KLTQCFNKCV 44DKRYKBAELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 86----- 86  
gi|17556370 24 -RMTNSQARKCI 34ATAFRESELTGGEAVCLDRVCVARYLDVHERMGRKRTSMSQGDAAALQK-IAQQ----- 86----- 86  
gi|6912708 24 -RMTSACHRRCV 34PHYKBAELNMGNSCIDRCVSKYLDIHERMGRKRTSMSQGDAAALQK-IAQQ----- 90----- 90  
YHR005C-A 35 -KLVNNGYKKEE 45NTQVSGEELNMGNSCIDRCVSKYQVNTNIVGQMLGNR-POH\*----- 93----- 93  
gi|85114782 31 -RNVKICLKEI 41DKSYREDDLSRGEVCLDRCAAKFETHOKISDQKQKTOARGG-GGF-GM----- 90----- 90