Manes.02G189600

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| MTSSSGSLDTSANSHPLGFSFSTHSFMTTSFSDLLASGADDEPVNTKTQNHRRGLSDRIAERTGSGVPKFKSIPPPSLPL |
| SPPAVSPSSYFAIPPGLSPTELLDSPVLLNTSNILPSPTTGTFPALPAIWKTNSDRNQQNVKQEDPNYYDFSFQPQTRPS |
| TNSSTMFQSSNTTIQSAQQQGWSFQESVKQDDLAMGKNVRSFSPEIAAIQTLREQQQNQSVRDQKRSEDGYNWRKYGQKQ |
| VKGSENPRSYYKCTYPNCLTKKKVERSLDGQITEIVYKGTHNHPKPQSTRRSSSSFSSASNQAMIASNLASSEMQAQSLI |
| THGSRQMDSVPTPENSSISMEDDDFDSQKSRSRSDELDEDEPVAKRWKAEGENEGISAPGSRTVREPRVVVQTTSDIDIL |
| DDGYRWRKYGQKVVKGNPNPRSYYKCTSPGCPVRKHVERASHDLRAVITTYEGKHNHDIPAARGSNSVNRPLPENYNGRS |
| NSNNNAAAMATRPSSVNHPQAPFSLEMFQNPENFAFSGFGDPVGSYTNQSLSEHVFSRAKEEPRDDIFLESLLC\* |

Manes.15G152500

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| MGGKNSREGSWRSNSSSLRSNSSPWGGSPHGYSQSPYAQEIYSDSNRAQQSYGQESYTYNYAPQQSYGSQQQYSSSQNYN |
| NDKRQLDRKYSRIADDYKSLDQVTEALARAGLESSNLIVGIDFTKSNEWTGSRSFNRRSLHHIGDGLNPYEQAISIIGKT |
| LAFFDEDNLIPCFGFGDASTHDQDVFCFYPDERFCNGFEEVLSRYREIVPNLRLAGPTSFAPVIEMASTIVEQSGGQYHV |
| LLIIADGQVTRSVDTERGQLSPQEQKTVDAIVEASKLPLSIVLVGVGDGPWDTMREFDDNIPAREFDNFQFVNFTGIMSK |
| PVDSSRKETEFALAALMEIPSQYKATIEHNILGRRKGNVPERVPLPPPLYGAASFNSTKPSRSDSFKPSVPSYPVDSPPA |
| SSAPPASSSTYDNQVCPICLTNAKDMAFGCGHQTCCECGESLRLCPICRSEIQMRIKLY\* |

Manes.16G060500

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| MKDSGSTTSKMINRNWVLKRKRKKLLYGRVLANGKEEKLAALESPRSTSAAKRRAKSELSSDLSSSKKKGNDGYYYECVI |
| CDLGGNLLCCDSCPSVYHLQCLDPPLKRIPMGKWQCPKCSQKNDPLKSITQLDSISKRARTKVVTANSKAGIKSSDTQKV |
| SQIFGSSILSKRRSSSKGKDVLTFGVKSCEKEADSSLDESTSTKPSDPFLVCVEGTSSCVNADDAKESAVSPPASPADKK |
| STSHAEETLSHSKLTKSGPNDEASDEKHDFSCYNGSPRSKIVLAIGAASKKDRKRKHELNGDSIKKHRTDRGRRTSKKWE |
| SKANNTSSGTSKLHQKRKTGTHRVSESLSENDVGTKSLDAQGKNEKLPEELVHPSVESGKTGGVMDGTRICEDVILEVQQ |
| VDRVLGCRIEDDNSSSSRNISLIATDDLPSKELLIPETQNRGENSNCDIDSDVVVAENLVGGSPGIKQRFDRRESRKNDT |
| RVDKINVYKRSANKDCKGGNVIDLAGKDDKDSGSKGPSDKDQDESTECTEDFAQQHEKVLTENVDVSTKSQDMIEFSKDC |
| EPHLSPETNVREEADMEMKMSGGDEKNVQEPAKIEPACSNNGETTSYEFLVKWVGKSHIHNAWISESRLKVLAKRKLENY |
| KGKYGTAVINICEEKWKQPQRIISLRTSRDGTREAFVKWTGLPYDECTWERVDEPVLSKSPHMIDMFDQLERQTLEKDAM |
| GNDLTKGRGDSHQNEIVTLTEQPKELKGGTLFPHQLEALNWLRKCWNKSKNVILADEMGLGKTVSACAFISSLYFEFKAS |
| LPCLVLVPLSTMPNWLAEFALWAPNLNVVEYHGCAKARAIIRQYEWHANDPNKMNKKTASYKFNVLLTTYEMVLADSSYL |
| RGVPWEVLVVDEGHRLKNAESKLFSLLNTFSFQHRVLLTGTPLQNNIGEMYNLLNFLQPASFPSLSSFEEKFNDLTTAEK |
| VEELKKLVAPHMLRRLKKDAMQNIPPKTERMVPVELTSIQAEYYRAMLTKNYQVLRNIGKGVAQQSMLNIVMQLRKICNH |
| PYLIPGTEPDSGSVEFLHEMRIKASAKLTLLHSMLKALYKEGHRVLIFSQMTKLLDILEDYLTIEFGPKTYERVDGSVSV |
| CDRQAAITRFNQDKSRFVFLLSTRSCGLGINLATADTVIIYDSDFNPHADIQAMNRAHRIGQSNRLLVYRLVVRASVEER |
| ILQLAKKKLMLDQLFVNKSGSQKEVEDILRWGTEELFGDSSSMIGKDITESNSNKDDAVIDIEQKQRKRGGGLGDVYKDK |
| CTDGGNNIVWDENAIAKLLDRSNLQSGIADVAEMDFENDMLGSVKSVEWNDETAEDQGGVESPPVVAEDICGQNSDRKED |
| NAVTTAEENEWDRLLRSRWMKYQNEEEAALGRGKRQRKAVSYREAYAPHPSETLSEQSGGEEEREPEPEREYTPAGRALK |
| MKYARLRARQKERLAQRNAIEECCPSEGLPLPDLLPQPQFPPTNERDKDHAKGLFQAVGEKSSVFEVEDNKFPPPSDTPK |
| SKADSTLRLGRVSKHKMSSHLDLSVNSHDYPSPDINIPSQQNQGMGHANYNLLPVLGLCAPNANLFDSSHRKSSRSNSRQ |
| SKPANGPEFPFILPPSSRTSIETDLKRQEINASAEVLQKHLKSSLSDGWLPFSPCPPTVPQGRTSDGFESSSFTEFQEKM |
| SIPNLPFDEKLLPRVSVPAKSMPISYPDLLPSLSLGGRLEAVNDSMRDLPAMPLLPGLKFPSQDVPIYNQLDKEVLPVLG |
| LGQMPTNLPPFPENHRKVLENIMIRTGSGSSNFYRKKLRTDGWSEDELDFLWIGVRRHGRGNWDAMLRDPRLKFSKYKTT |
| EDLAARWEEEQLKILDAPPFSGPKASKLAQSSRSCLFPSVPEGMMARALNGSRLVTPPKFHSHLTDMKLGFGDPSSSLPH |
| FEPSDQLSLQNEHFGPIPSWNLDKFRTNFAGDSTAGPSSNFSSEMPFLLNSFGASNLGSLGLNGCSSFDLHREEENGNMK |
| YGKLPCLLDRSLTILRDSQNNIGNGESSSALFPDHNCGIYISHSKGKEVVGSSSSKNKLPHWLREAVHAPAKLPEPELPP |
| TVSAIAQSVRVLYGESKPNIPPFVIPGPPPTQPKDPRRTLKKKKKRRSHMFRQFPQDIAGSMQNFKSSIPGCIVASSSAQ |
| PVPTFQLPPSLIPGTSGHAWNESDPNFPNKHMLHSLTSSSFLNLSKKTSMGLSPSSEVLQLVASCVAPGPHLPSTSGLTS |
| SSFLDSKLPLPKSVNHVECLNSGGAVQKNMDMQSLPPDAQVMLPENKTNQPDSGDSSKTQTEQPDVEVISSEGTVSDHPV |
| SEHEP\* |

Manes.15G089100

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| MCCSFAIIDGIVLLHWNSVEMADAAGLMEAAGTRFSSLELIGRGSFGDVYKAFDKELNKEVAIKVIDLEESEDEIEDIQK |
| EISVLSQCRCPYITEYYGSYLNQTKLWIIMEYMAGGSVADLLQSGPPLDEMSIACILRDLLHAVEYLHNEGKIHRDIKAA |
| NILLSENGDVKVADFGVSAQLTRTISRRKTFVGTPFWMAPEVIQNSEGYNEKADIWSLGITAIEMAKGEPPLADLHPMRV |
| LFIIPRENPPQLDEHFSRPMKEFVSLCLKKVPAERPSAKELLKHRYIRSNARKSQRLLERIRERPKLEIKDAETPRKILG |
| EASGTVKVTRDIGDEGTVRASGQGKPLRNAGWDFSIGGSQSTGTIRSAVRPPPVGEKKTEISYDKLTRKNLESGNHLLSA |
| SGNALQESPEISFGKVAGDPNSDEPEDNSHDYEELSVSGSGTVVIRTPKGSQSSNMFRDQSSLSSSTVGSLEDASTSGTV |
| VFRGQPDDSDSPWTPSKMGIQERTSSASPEDSAVNLAEAKAAIQAGLRKGNARERFALNKLNNDAHENRRREQMTNSSDS |
| SRSSREYFDAQRVFPRSQQASEDEESTRIASSSAPLSVLLMPSLKEVVADDSGGGSVVRAVTNSLINMERAKPGSADLFV |
| RSLLQRLASSKEPSLKDLQELAARLFSKGKAKPEGTQNANAEAENKKKQQNKEYNSNANLSPLARFLLSRWQSQVSRDVN |
| PT\* |
| Manes.09G163800 |
| MANSKLDPTVPPGLHLVSAFLAMEPTDCLISMARACGGLVTERVQRFIWDYCISEAVGKGNAPYLKNFIKKLIFEIESSH |
| STVLEELYEQYGYYMTSLKDDISAKVNTRVCKCISFLFPHGCSGSPSCPVSRKLMVSLYCSLNMLEGDTGCAVWPSSLYL |
| SEFVLSFPHIFSGKTCFEVGCGVGLVGICLSHVKASKVILSDGDLSTLANMKLNLELNQLRADTGKPERSVQDLNMVNCI |
| HLPWESATKNELQEFMPEIVLGADIIYDPACLPYLVQALALLLNTKKECSDSQTVKYSCQGSFIHCNCINVEANDIDDGE |
| ASIACDLDGSKADQIGCQIDIGGVDGLQNGSANNGVKQGPVAYIASVIRNIETFSYFVQLAEQANLAIADITETQRPLEL |
| LPYMQSYDRSSIRLFIVTGK\* |

Manes.08G029900

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| MKCFSSLAPIAKRLQGKVALITGAASGIGESTARLFAHHGANVVIADIQDKLGHSVCNEIGSDYVHCDVTSETDVKNAIN |
| TTISKYGKLDIMFNNAGTSDIAGPSILEAEYKSYKQVFDVNVYGSFLGAKHAASVMIPARKGSIILMSSVASVSHGDVSH |
| FYAVSKHALVGLTKNLCVELGKYGIRVNCISPYGVATPLLREAMGGINGKMVEEIIGAAANLKETVLEAKDVAEAALFLG |
| SDESKYVSGLNLVVDGGYSTTNVALGEALKEFLP\* |

Manes.06G094100

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| MVSEGSPSASDEVNVAAEITEKRCFHGRNKGKVPKRIHKAEREKLKREQLNELFLQLASALELTQPNNGKASILSEATRL |
| LKDLLGQIEGLNKENASLLSESRYVTIEKNELKEENSALETQIEGLKSELEARVSQSKPDLNVPPPEFHHPELTQHFPGE |
| SLRLPAADATLQQAQAVIVVPLHPELQGYPVTNSNVSKPHARYPTSTDSWPSQLLEEQLRGRKEVQ\* |

Manes.02G151400

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| MGSLTFAEKPHAVCIPYPAQGHINPMLKLAKLLHHKGFHITFVNTEYNHNRLLKSRGPDSLNGLPSFQFRTIPDGLPPTD |
| TDATQDIPSLCQSTRKTCLSPFRDLLSKLNHTSSSNVPPVTCIVSDGVMSFTLDAAQELGIPEVLFWTTSACGFMAYLHY |
| RHLIEKGFTPLKDESYLTNGYLDTVIDWIPGMKGIRLRDIPSFIRTTDPEDGMLDFVLSETKRAQKASAIILNTFDALEH |
| DVLSALSSLLPPVYSIGSLQLILNNVNDEDLKLIGSNLWKEESGCLEWLDSKEPNSVVYVNFGSITVMTTEQLVEFAWGL |
| ANSSQTFLWVIRPDLVSGDTAVLPAEFLTVTKERGLLASWCPQEQVLNHPSIGAFLTHNGWNSTLESICGGVPMICWPFF |
| AEQQTNCRYCCKEWGIGMEINSNVKRDEIESLVIELMEADKGKEMKKKAMEWRKMAEEAAASLEGSSFRNLDNLINQVLL |
| SSKNYSDRGM\* |

Manes.01G059400

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| MEKESPKSNILKSPIFKSSSPKSPMPKSPIPKSPVAYEKYKSRCGYGLISFFNFRRCHSKKMISDTQSTSLNRNALGDGY |
| VENGDEFHSYKDSHDKVNDKSMMLDSDGAQVEKIKGRDASIEQHKKKKVMTAKVENVKSDSEPVDDQSRNRGKAIKTSWR |
| PHRFPKYSCHDISTVECSKPSHQNLADSERSSKPLESASSAEVLWHHKNENHCNCRSTDCMQHDRVNEINLQVNMNEATE |
| AYINQKLIDGKHLGGDGINHQSKHFLEALEILNSNRDLFIKLLQDPNSLLVKHIEDLRESQAKKQENKSFIEAESSEQQI |
| RNKRGCNLSKETGDCQPFQPGSESLQDCEDQRIGDDILQIHYGTRNLQQSAKSAFVALEQMKRKLMRSMGRVRKEQHLRL |
| TNGPLHQKSIHVLEGFGQHGKATGLDSIDRDSPDKACSDFGGRTKSFSDIKRKDQLEKANEFDPVVKDESSASSSGQENL |
| HLSTVKYPKRNKHDPFVEPRANVSESKIGSENFLRRQRTKTWDGVSSVPENDLFPMVRSRRRFPLYNNHQMVSLSENNWS |
| DPNENKNCCSSPLRQNVETKCRDSEEITLPEVPSKPDSSHNNGIRPSTTTADTWEASGSMEFSREVSPMVNQSSTYSIDD |
| YSSSPLNSRIFREFDTIRDKEEHPSPVSVLDQFLIEEISSPLNNEFQPAKRTRAVLRSELLLQIGIEEGCLADNHQSPPD |
| SKINSSTSIKEYGSILEYISTVLQAHHFSWDELALTCHFSDQLQDQSLADEMDVCSNHFYDDHRLLSDYVNEVLADVNHC |
| YLRCSPWLSFIKPIQQAMMTGNVARQVMKHVDWNLLLASTPQTLDQILANDLSKCRTWMDIRADVEGVVSEMTESLVEEL |
| MMEYALE\* |

Manes.01G136800

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| MNDLMTKSFLSYVELKRQAQKDLELELDMESGFLNPADEPNLSQFFQEVSAIKAEMEEITNLLSDLCALVQESKSTHSAK |
| VLRGLRDRMEADSVSVLRKAKLIKAKLESLDQSNKINRRTSELYKEGSPVDRARISVTNGLRAKLREMMNEFQFLREKIL |
| SDYKADLIRRYYTATGDEPSEEDIEKIISGGGEVKMFSGKAEEEVSGKEMHKVLMDIQRSLTKLHQVFLDMAVIVETQGE |
| KMDDIEENVANAGNFISGGTTNLYYANQIKKKRKAWVYWVWAVMMIILLVCIVSLLAS\* |
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Manes.08G049600

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| MTITPKISINDGKLVVHGKTILTGVPDNIVLTPAGGLVAGAFIGATASHSKSLHVFTVGVLEGLRFMCCFRFKLWWMTQR |
| MGMCGKDIPLETQFMLVESKDGGEGVDQGDAQTIYTVFLPLLEGQFRAVLQGNEKNEMEICLESGDNAVETNQGLHLVYI |
| HAGTNPFEVINQAVKALEKHMQTFLHREKKKLPSFLDWFGWCTWDAFYTDVTAEGVKEGLKSLSEGGSPPRFLIIDDGWQ |
| QIENKSLKDTNAVVQEGAQFASRLTGIKENAKFRKNGEKDEEARGLKHVVEDAKQCHNVKFVYAWHALAGYWGGVKPASS |
| GMEHYDTALAYPVQSPGVLGNQPDIVMDSLSVHGLGLVHPKKVFNFYNELHAYLASCGIDGVKVDVQNIIETLGAGHGGR |
| VSLTRSYHQALEASIARNFPDNGCISCMCHNTDGIYSAKQTAVVRASDDFYPRDPASHTIHISSVAYNTLFLGEFMQPDW |
| DMFHSLHPAADYHGAARAIGGCAIYVSDKPGNHNFELLKKLVLPDGSVLRAQLPGRPTRDCLFADPARDGTSLLKVWNVN |
| TCTGVVGVFNCQGAGWCKIEKKTRIHDASPGTLSGSVRSTDVDCIAQVASPDWSGETIVYAYKSGEVIRLPKGASVPVTL |
| KVLEYELFHFCPIKEIASNILFAPIGLLDMFNVGGAMDKFEIKMNPDKKSELFDGEVSSGLTTSLSENRSPAATIALKVR |
| GCGRFGAYSSQRPLKCSVDNAETEFNYDSDTGLVTLTLPIPEEEMYRWNMEIQV\* |

Manes.05G107100

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| MAISGDLRVSATLASYHKHPLRSSLPTSNSKVEFIGFPGRGSGTTPNRHKWPGIMLDRYKMQDHSRRFSGISGDYQLSST |
| SIRDDAESFLLNAINMSFLERLNLAWKIIFPSPARRKSSNARIAKQRLKMILFSDRCAVSDEAKQKIVRNVVHALSEFVE |
| IDSEDKVQLSVTADLDLGTVYSVTVPVRRVRPEYQDAEETGSITNIEYKDTGDTSGSVDVRFDFFIPDERTR\* |
| >Manes.05G048200.1.p pacid=41884965 transcript=Manes.05G048200.1 locus=Manes.05G048200 ID=Manes.05G048200.1.v7.1 annot-version=v7.1 |
| MLVSSHLLPHWLQVLLTEKFFNACIIHEEAKKNEKNVYCLDCCISICPHCLSPHNSHRLLQIRRYVYHDVIRLGDAQKLF |
| DCAFVQSYTTNSAKVLFLNPRPQTRQFRGSGNVCGTCDRSLQDPFLFCSLSCKVDCIIKMKGVDGLSSFLFDCKFLSLSE |
| SVSDDGLMTSDSVLEPAASTRTSSSSDGYGGIGCRTLACTATTEIVRKKRSSLSVCQPMFPRSEMSAGLMNRRKKTPNRA |
| PLY\* |

Manes.15G169000

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| MDLIISCTFCSTLHCKPASLRQLLSTNYTNHNSTSVKCRLKTTSELQTPVGVTGGSGYQSPSIPIHKVTVRDRQRGLVHE |
| FLVPEDQYILHTAESQNISLPFACRHGCCTSCAVRVKSGQIRQPEALGISAELKSKGYALLCVGFPSSDLEVETQDEDEV |
| YWLQFGRYFARGPIERDDYALELAMGDE\* |

Manes.05G164400

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| MKHREPPKFPCLEPEVDRISSLPGHVLDQILSQLSIRDAVRTSALSSKWRYKWAKIPQLVFDSNCVPNPSQDQTLIKNKL |
| VNIVDHVLLLHTGPIHKFKLSHRDILGVSDIDRWILHLSRSSIKEFILEIWKGQRYKVPSSLFSCEHLIHLELFNCLLKP |
| PLSFKGFRNLKSLDLQHITLTQHVFENLILSCPLLERLTLMNFDGFTHLNINATNLQFFDIGGVYDEVSFENTFQLTLIS |
| IGLYVNVKNDRNAVHGNSSKLLRFFANLPHIRRLEIQSLFLKYLAIGNIPSRLPRPCIDLNYLSIRINFNDMEENSAALC |
| ILRSSPNVQELEMLARPEEQASVGAISNFWEDDHWNSLFGQLRLVKIVGISGVKSELDFINFLLSNSPVLERMTVRPATN |
| DGGFELLKELLRFRRASVRAEIIYLDP\* |

Manes.S033500

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| MKSIPLLLMGCGGVGRQLLQHIVSCRSLHANQGVHLRVVGVCDSKSLVVASDVFTRELNDKFLVEVCRVKLNGLSLSKLA |
| DFDECLIYLNSESKRKVIDIAALLGKSTGLAFVDCSASSETTGVLNRVVDLGCCIVLANKKPLTSRLEDYDKLYSYPRRI |
| RHESTVGAGLPVIASLNRILLSGDPVHRIIGSLSGTLGYVMSEVEGGKPLSEVVKTAKSLGFTEPDPRDDLSGMDVARKA |
| LILARLLGRRVNLDDIKIESLYPDEMEPDVMSVEEFLATGIKLLDNDVEERVKKASLRGNVLRYVCVIEGSRCEVGIQEL |
| PKTSALGRLKGSDNVLEIYSRCYNEQPLVIQGAGAGNDTTAAGVLADILDIQDLFP\* |

Manes.14G031700

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| MAKLWCFLCIITFIQLFKFVISKRELLPTPPLPILPLPSFSQLKWQQRELIMFFHFGVNTFTDSEWGTGHENPAIFNPVG |
| LNAKQWVDTAAEAAVSLVILTAKHHDGFCLWPSKYTRHSVASSPWKNGHGDVVQELVNAAKNHGGVDVGLYLSPWDRHDR |
| RYGHNLPYNEYYLAQLQELLSKYGDVREIWFDGAKGSNAPNMSYYFSSWFAMVKELQSSINIFSDAGPDVRWVDNENGFA |
| GTTSWSTINRTSLSIGNGSIMDYLNTGDPKGTDWLPAECDVSIRKGWFWHKSESPKKLSKLLDIYYKSVGRNCVLLLNVP |
| PNSTGLISDTDVQRLKQFRNAIDTIFTSNLAEKCSIKASSQRGGKDGDFGPENVIDRDHLRTYWVPRDEEKEGSWIEIRC |
| NEGLRFNVIRIQEAIGLGQRIKRHEIYVDGKKVGKGTTVGYKRLHKLEEKVVKGQIVRIKFLKSREVPVISSIGLHYDPF |
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Manes.13G089100

Manes.09G096100

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| MAFSYLLRRASAFVLPLAIRSVGSQRTFHSAISAVLSVEKRNLRYEARRHVFLPFFRFSTSTGPKPSTDENLIRVLESEI |
| DCAEQPNDVEDIPNGFSFEIQDNPGARTILLKKNYQDETIKIEVDEPSIPDEDVQEDDDDDQDKNVEDTDNPASLPLIVS |
| ITKGKGQIVEFGITAYPDEITIDTLSIKDSESSEDKLAYGPDFCDLPENLQKDFHEYLDSIGIKPSMMNFLFEYMRNKDK |
| KEYLIWLKNLKSFMER\* |

Manes.01G115400

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| MRKPCCDKQGNNNKGAWSKQEDQKLIDYITTHGQGCWRSIPQAAGIFTTRGGDQGLHRCGKSCRLRWRNYLRPDIKRGNF |
| AQDEEDLIIKLHALLGNRWSLIAGRLPGRTDNEVKNHWNSYLRKKLINMGIDPNNHRLNQILPRSQPVDDDEEACKSNKS |
| KADTDGVSDAATSSLEEDETSAGSYHINLDLTIAVPSPAHAPNLETKPENCGIAATGEVLQNETSPALLLFL\* |

Manes.02G093600

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| MTLGLINANPVVHAKKERIARTEDLHCDDAVDPLEIYDFVRDIRDPEHPYSLEQLSVLSEESITVDDKLGRILITFTPTI |
| QHCSMATVIGLCLRVKLQECFPPHYKVDIKVSPGSHADEESVNKQLNDKERVAAALENPNLRQLVDECLYSNEL\* |

Manes.05G011300

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| MVAEAEIVCQQSFPVVDVQYFAKGSAVHEIEDVVNISPRKLNQVPVSDPAPVDLSTPQVELVDFKSAEKIPDVCLENTIF |
| QFVPSIRSGSFADIGPRRYMEDEHIRIDDLSTHLGSLFKFPKPSAFYAVFDGHGGPEAATYIRKNAIRLFFEDVNFPQTY |
| EDDNIFLKEVENSLRKAFLLADLALADDHSVSSSSGTTALTAFIFGRLLMVANAGDCRAVLSRKGEAIDMSQDHRPIYPS |
| ERRRVEELGGYIDDGYLNGVLSVSRALGDWDMKNPRGAPSPLIAEPEFQQMVLTEDDEFLIIGCDGIWDVMSSQHAVSLV |
| RRGLRRHDDPDQCARDLVMEALRQNTFDNLTVIVVCFSSLENRESSSPPRQRRQRCCSLSAEALCSLRSLLDSSGSR\* |

Manes.17G013000

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| MAGVEETLGELNKESFVSLLGKIIGESKYVQNNPPDLIPEEDRVVKHVLDSLLPLSTTTGGGPLIVNHVSYFPGRGNLIV |
| EYPGTEPGKILSFVGMHMDVVTADPNDWEFDPFTLGINGDKLCGRGTTDCLGHVALVTELMKRLAETKPKLKSTVVAVFI |
| ASEENSSIAGVGVDALVKDGLLNKLKGGPLFWIDTADKQPCIGTGGMIPWKLHVTGKLFHSGLAHKAINSLELAMEALKE |
| IQSRFYKDFPPHPKEQNYGFATASTMKPTQWNYPGGGINQIPAECTISGDVRLTPFYNVTDVKKKLQEYVDDINENIEKL |
| DTRGPVSKYVLPDENLRGSLTLTFDEAMSGVACDLDSRGFHVLCKATEKIVGHVKPYSITGSLPLIRELQDEGFDVQTTG |
| YGLMATYHAKNEYCLLSDMCQGYKVFVSIISQLED\* |

Manes.15G182200

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| MVSRSYSNLLDLASGESPTFGRERKRLPRVATVAGVLSELEDENSNSVGSDAPSSVSQERMIIVGNQLPLRVHQSPDGNG |
| EWCFSWDEDSLLLQLRDGLGEDVEVIYVGCLKEEVDPSEQDDVAQTLLESFKCVPAFIPPELFSKYYHGFCKQHLWPLFH |
| YMLPLSPDLGGRFDRSLWQAYVSVNKIFADKVMEVISPDDDYVWVHDYHLMVLPTFLRKRFNRVKLGFFLHSPFPSSEIY |
| RTLPVRDELLRALLNADLIGFHTFDYARHFLSCCSRMLGLSYQSKRGYIGLEYYGRTVSIKILPVGIHIGQLQSVLNLPE |
| TESKVAELHDQFRGQTVILGVDDMDIFKGISLKLLAMEQLLLQHPDKRGEVVLVQIANPARGRGRDVQEVQSETKATVRR |
| INEIFGRPGYAPVVLIDTPLQFYERIAYYVIAECCLVTAVRDGMNLIPYEYVICRQGNDKLDETLGLNTFDPKKSMLVVS |
| EFIGCSPSLSGAIRVNPWNIDAVAEAMDSALVIPEPEKQMRHEKHYRYVSTHDVAYWARSFLQDLERACRDHVRRRCWGI |
| GFGLGFRVIALDPNFRKLSVEHIVSAYKRTKHRAILLDYDGTMILSGSISTAPSTEAVGILNNLCRDPKNVVFVVSGKDK |
| ETLAEWFSSSEKLGIAAEHGYFVRPNHDVDWETCVSVPDFDWKQIAEPVMKLYTETTDGSAIETKESALVWNYQYADPDF |
| GSCQAKELLDHLESVLTNEPVSVKSGQHIVEVKPQGVNKGLVAQCLLETMQKKGMLPDFVLCIGDDRSDEDMFEVIMSAR |
| AGPSLSPVAEVFACTVGQKPSKAKYYLEDTSEILRMLEGLANASELAARSSPPIGAKTDH\* |

Manes.14G065800

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| MQASSLIALSPSSPSFNAYSSGRLAEIAARVVQEFSNESQDDSAFFSWKQEGLLHEGQDHKKLDHDADDDDGEEFEFAIV |
| CTQPDSLAISADEIFYNGQIRPIYPLFNTALLIDDREDELSKPSSAVSGDKPTKPIRLPLRKLFNEERETTSCSSSEADD |
| LESVPAGSYCVWTPKKGKETPGRCKKSSSTGTSKRWKFRDLLYRSNSDGKDTFVFLTPAKKSSERVMEDEGKENKERYKN |
| GKAMDKEHYVKNRTLKEEEHKRRSFLPYRQDLIGFFI\* |

Manes.04G063000

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| MFGRAPKKSDNTRYYEILGVSKNASQDDLKKAYRKAAIKNHPDKGGDPEKFKELAQAYEVLSDPEKREIYDQYGEDALKE |
| GMGGGGGVHNPFDIFESFFGGSPFGGGSSRGRRQRQGEDVVHPLKVSLEDLYLGTTKKLSLSRNVICSKCNGKGSKSGAS |
| MKCPGCQGTGVKISVRQLGPSMIQQMQHSCNECKGTGESISEKDKCTQCKGEKVVPEKKVLEVIVEKGMHHGQKITFPGE |
| ADEAPDTITGDIVFVLQQKEHPKFKRKGDDLIVEHTLALTEALCGFQFVLTHLDGRQLLIKSNPGDVVKPDSYKGINDEG |
| MPMYQRPFMKGKLYIHFNVEFPDYLAADQVKALEVILPARPSSQLTDMELDVCEETTLHDVNMEEEMRRKQQQARQEAYE |
| EDEDTPSGAQRVQCAQQ\* |

Manes.13G132700

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| MAATPQAAATLLQPTKAGGMPSRTSSLQLRSTQTVSKAFGLDPSNARITCSLQSDLKDLAQKCVDATKLAGFALATSALV |
| VSGASAEGVPKRLTYDEIQSKTYLEVKGTGTANQCPTIASGVDKFAFKPGKYNAKKFCLEPTSFTVKAEGVNKNAPPEFQ |
| NTKLMTRLTYTLDEMEGPFEVSPDGTVKFEEKDGIDYAAVTVQLPGGERVPFLFTIKQLVATGKPESFSGEFLVPSYRGS |
| SFLDPKGRGGSTGYDNAVALPAGGRGDEEELAKENNKNVSSSTGKITLSVTGSNPDTGEVIGVFESYQPSDTDLGAKTPK |
| EVKIQGIWYAQLES\* |

Manes.10G132200

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| MPKSKRNRAVSLTKTKKKGREHKETIVNSIREAVESYDSIYVFTFENMRNLKFKEFREQLKSTSRFFLGSNKVMQVSLGR |
| SVADEIRPGIHKVSKLLRGDAGLFLTKLPKEEVERLFNEYEEYDFARTGSIATEKMELKEGPLEQFTHEMEPFLRKQGMP |
| VRLNKGVVELVSDFVVCEEGKHLSPESARILRLLGIKMATFRLHLICRWSPEDFELYREGQDESDVESA\* |

Manes.16G077700

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| MEKDSLKSNNYVNTNNTHKTGGDDLLRAVSETTKQTTSDFVLQWGNRKRLRCMKVLVKDDSHSPVHRTTVRVDRRVVRAD |
| KEASNQPSTTKNTNQSNGYLNLRQRPSSPTPPQPQPQRVLRNSENSSAMRGQGNGGVRSLASPDKGAHDRRGITTNYNHN |
| HSSNHDNNNKSGASSETAHDSKKGGSSSGSGEAAPPVWPPKFVIALTNKEKEEDFIAFKGSKLPQRPKKRAKFIQRTLNL |
| VSPGAWLCDLTLERYEVREKKISKKVTVRPRGLKAMGNMESDSE\* |

Manes.03G041500

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| MSRGSGGGYDRHITIFSPEGRLFQVEYAFKAVKAAAITSIGVRGKDSVCVVTQKKVPDKLLDQTSVSHLFPITKYLGLLA |
| TGMTADARTLVQQARNEAAEFRFRYGYEMPVDVLAKWIADKSQVYTQHAYMRPLGVVAMVLGIDDESGPQLYKCDPAGHF |
| YGHKATSAGLKEQEAINFLEKKMKNDPAFSYEETVQTAISALQSVLQEDFKATEIEVGVVRADSRVFRVLSTEEIDEHLT |
| AISERD\* |

Manes.12G032900

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| MVSLSTWFRYIAHKFEYSVSLSWKSYKRGQISDREVGDAIWKNLFQGRLTYLHWNKGQEMTPTIGDQGGTLLVRKLPAAD |
| PTRVFVGDVVVLKNPENSDGYLVRRLAAVEGYEMASTDEKDEPFLLEKDQCWVLADNEKLKPKEANDSRIFGPVPMSDIV |
| GRVIYCLRTAVDHGPVQNSNFSMNSDLPVLEVELDVEEMAKNHKA\* |

Manes.07G013300

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| MPKSKRNRAVSLTKTKKKGREHKESIVTSIREAAENYNSIYVFSFENMRNLKFKEFREQLKSTSRFFLGSNKVMQVSLGR |
| SVADEIRPGLHKVSKLLHGDAGLFLTNLPKEEVERLFNEYEEYDFARTGSIAIEKVELKEGPLEQFTHEMEPFLRKQGMP |
| VRLNKGVVELVSDFVVCEEGKHLSPESARILRLLGIKMATFRLHLICRWSPEDFEVYREQEESDVESA\* |

Manes.06G036700

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| MGERRRDGQSTLLHGRYELGRMLGHGTFAKVYLARNLQSGKSVAMKVVGKEKVIKVGMMEQIKREIAVMKMVKHPYIVDL |
| HEVMASKSTIYFAMELVRGGELFSRISKGRLREDVARVYFQQLISAVDFCHSRGVYHRDLKPENLLLDEDGNLKVTDFGL |
| SAFSEHLKQDGLLHTTCGTPAYVAPEVIGKKGYDGAKADLWSCGVILYVLLAGFLPFQDDNIVAMYRKIYRGDFKCPPWF |
| SPEARRLITKLLDPNPSTRIAISKVMDSSWFKKSMPKTIRSKEEMEFEAFNCEEESKNGGKSKQPETLNAFHIISLSEGF |
| DLSPLFEEKKREEKEELRFATTRPASSVISRLEEVAKAGKFSVKKSETKVRMQGQESGRKGKLAIAAEIFAVTPSFLVVE |
| VKKDNGDTLEYKQFCSKELRPALKDIVWTSPADNSTIA\* |

Manes.08G127300

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| MAEEKIAIAKDVTELIGKTPLVYLNRIVDGCVARIAAKLEMMEPCSSVKDRIGYSMIADAEEKGLIEPGVSVLIEPTSGN |
| TGIGLAFMAAAKGYKLIITMPASMSLERRMVLRAFGAELVLTDPARGMKGAVQKAEEILAKTPNAYILQQFENPANPKIH |
| YETTGPEIWKGSGGKVDAFVSGIGTGGTVTGAGQYLKEQNPDIKLYGVEPVESAVLSGGKPGPHKIQGIGAGFIPGVLDV |
| GVLDEVVQVSSEEAIETAKLLALKEGLLVGISSGAAAAAAVKIAKRPENAGKLIVVVFPSFGERYLSSVLFESVKREAEN |
| MVFET\* |

Manes.18G144400

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| MLPRKRPVEGVLVEAEEENGSKTAGSASIKKHRIDCVLESAEKTTATNTTNNNSNSSIVGLNKDKSSRDLIMAPGDANLS |
| DIDEDLHSRQLAVYGRETMRRLFASNVLVSGMQGLGAEIAKNLILAGVKSITLHDEGEVEMWDLSSNFVFSEKDVGKNRA |
| LASVQKLQELNNAVVVSTLTTELTKEKLSDFQAVVFTDINLEKAIEFNDYCHSHQPPISFIKAEVRGLFGSVFCDFGPEF |
| TVFDVDGEDPHTGIIASISNDNPALVSCVDDERLEFQDGDLVVFSEIHGMTELNDGKPRKIKSAKPYAFTLDEDTSKFST |
| YEKGGIVTQVKQLKVLNFKPLREALENPGDFLLSDFSKFDRPPLLHLAFQALDKFLSELGRYPVAGSEEDAQKLITLTAN |
| INESLEDGKVEDIDPKLLRHFAFGARAVLNPMAAMFGGIVGQEVVKACSGKFHPLFQFFYFDSVESLPKENLDPSAFQPL |
| NSRYDAQISVFGSKLQKKLEDANVFIVGSGALGCEFLKNVALMGVSCGKKGKLTITDDDVIEKSNLSRQFLFRDWNIGQA |
| KSTVAAAAAASINPSLNIEALQNRVGPETENVFDDTFWENLTVVINALDNVNARLYVDQRCLYFQKSLLESGTLGAKCNT |
| QMVIPHLTENYGASRDPPEKQAPMCTVHSFPHNIDHCLTWARSEFEGLLEKTPAEVNAYLSNPAEYTSAMANAGDAQARD |
| TLERVLECLDKEKCETFQDCITWARLKFEDYYANRVKQLIYTFPEDAATSTGAPFWSAPKRFPHPLEFSASDPGHLHFVM |
| SASVLRAETFGIPVPDWVKNPKMLTEAVEKVMVPEFQPKKDAKIVTDEKATSLATASADDLAIINEIIARLEQSRKKLPP |
| GYRMKPIQFEKDDDTNFHMDLIAALANMRARNYSIPEVDKLKAKFIAGRIIPAIATSTAMATGLVCLELYKVLDGGHKLE |
| DYRNTFANLALPLFSMAEPVPPKVIKHRDMKWTVWDRWIVKDNPTLRELLQWLKDKGLNAYSISCGSCLLYNSMFPKHRE |
| RMDRKVVDLVREVAKLELPPYRSHFDVVVACEDDEDNDIDIPPISIYYR\* |

Manes.16G000600

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| MQMPPTASFCSTCPLSLFSPSSVTSPTPTSICCLAKLTTNYYPKQLVLPFSSRFKFHTSSNQQTFMIRAAVSIEKETPET |
| QRPQTFLRESEGGDIRARFEKMIRDAQDSVCEAIEAVDKAGKFKEDVWSRPGGGGGISRVLQDGAVWEKAGVNVSVVYGV |
| MPPEAYRAAKAASADHKPGPIPFFAAGISSVLHPKNPFAPTLHFNYRYFETDAPTDAPGAPRQWWFGGGTDLTPAYIFEE |
| DVKHFHSIQKKACDKFEPTFYPRFKKWCDDYFYIKHRGERRGLGGIFFDDLNDYDQDMLLSFATECANSVVPAYVPIIEK |
| RKDLPFTDRHKAWQQLRRGRYVEFNLVYDRGTTFGLKTGGRIESILVSLPLTARWEYDHKPEEGSEEWKLLDACVNPKEW |
| I\* |

Manes.11G056500

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| MKGGLVVDSGFIYEEEKHLTVLKTSLFFANDGFTAYDCQGQLVFRVDSYGPDARDTGEVVLMDAHGRCLLTVRKKRPSLH |
| HRWEGYIGERTEGQKPIFSVRRSSIIGRCSVAVDVYDNPGEEYQIEGSFANRCCTILNTEKVSVAEIRRKVDASTNVVLG |
| KDVFSLCIKQGFDGAFAMGLVLVLDQINGVDTVEDGTEVYPASEE\* |

Manes.05G006300

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| MGTSLCFFTISLFLSTISSFYLQFIAAAPDSKLKLNSRILQESIIKKINENPNAGWEAAMNPQFSNYTVGEFKYLLGAKP |
| TPKKELRGFPVISHPRSLKLPKEFDARKAWPQCSTIGRILDQGHCGSCWAFGAVESLSDRFCIHFGMNISLSVNDLLACC |
| GFLCGAGCNGGYPIYAWRYFVHHGVVTEECDPYFDDIGCSHPGCTPEFPTPKCARKCVDKNQLWRRSKHYGVSAYRISSD |
| PQDIMAEVHTNGPVEVAFTVYEDFAHYRSGVYKHITGDILGGHAVKLIGWGTSDEGEDYWLLANQWNRGWGDDGYFKIRR |
| GTNECGIEDDVIAGLPSARNLDLVREVAGIDALGDASA\* |

Manes.07G131700

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| MEDHYSSGWPVVPPEANWSAAANFSAYDESYLFPWPQTPHSSTSTSAALLPSWSIPTQEAGQGFPSWSTLPVQESAEDKA |
| ASVSKSHSQAEKRRRDRINAQLGILRKLIPKSDKMDKAALLGSVIDQVRDLKGKAMEVSKSITIPTEFDEVTVDVDDSDD |
| VSQDVSSTTSKQSKEDNIYVRVSVCCDDRPEVFSELIRVLKGLRLSIVRADIASVGGRVKSILVLCNKDSKEGGVSVSTI |
| KQSLNVFLSRISSSSMPSNYRIRSKRQRFFLPSQ\* |

Manes.02G121000

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| MAAVVSVFTKFLSIFILLLHLGCFIFTAKDHKPPTKKRKVSLLSPISSSSTRLKPRRALSSSWFYLKRIFSSKTYKTTSS |
| QAQSPVPTLASARSSQHSIVSMIPPEDHASVIPPHKKPSGSCQESDISTNDQFFPLRNDIFPCTACGEIFQKPQLLEQHQ |
| AIKHAVSELQDGDSGKNIVHIIFKTGWSCKEKNPEIHRILKIHNGPKILSRFEEYRELVKAKAARNGGVKRRDERCIADG |
| NELLRFFCSTFMCDLGANENSSICNQQYCSVCGIIKSGFSPKMDGISTLSSSWRAHMTIPEDVEEEFKFMNVKRAMLVCR |
| VLAGRVGCELEEEDKEDGGFDSVVARGGSGIHSRVDEEDLVVFNPRAVLPCFVIVYTV\* |

Manes.05G187000

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| MAVSSGFATTLAGAKMETLLLISTSSSSSSSGSSSSLRAHLASPPQVRVCGRPARNNYGRILMQRGGVRCEVAASTDSVV |
| ETDSNIDPAKVSSLSALEQLKTSAADRYTKERASIVVIGLSIHTAPVEMREKLAIPEAEWPRAIGELCGLNHIEEAAVLS |
| TCNRMEIYVVALSQHRGVKEVTEWMSKTSGIPVPEICEHRFLLYNKDATQHLFEVSAGLDSLVLGEGQILAQVKQVVKVG |
| QGVVGFGRNISGLFKHAISVGKRVRTETNIAAGAVSVSSAAVELALMKLPESSHATARMLVIGAGKMGKLVIKHLVAKGC |
| TKMVVVNRSEERVAAIRQDLKDVEIIYKPLDEMLTCAAEADVIFTSTASETPLFLKDDVKDLPSVGSEVGGLRLFIDISV |
| PRNVGSCVNGVENARVYNVDDLKEVVAANKEDRLRKAMEAQAIITEESKQFEAWRDSLETVPTIKKLRAYAERIRAAELD |
| KCLSKMGEDIPKKTRRAVDDLSRGIVNKLLHGPMQHLRCDGSDSRTLSETLENMHALNRMFSLETEVAVLEQKLRAKTNQ |
| K\* |

Manes.10G060800

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| MFGRGPKKSDNTKYYEILGVSKNASQDDLKKAYRKAAIKNHPDKGGDPEKFKELAQAYEVLSDPEKREIYDQYGEDALKE |
| GMGGGGGAHDPFDIFQSFFGGNPFGGGGSSRGRRQRRGEDVIHPLKVSLEDLYNGTSKKLSLSRNVICSKCKGKGSKSGA |
| SMTCSGCQGSGMKVSIRQLGPSMIQQMQHPCNECKGTGETINDRDRCPQCKGEKVVQEKKVLEVIVEKGMQNGQKITFPG |
| EADEAPDTVTGDIVFVLQQKEHPKFKRKGDDLIVDHTLSLTEALCGFQFILTHLDGRQLLIKSQPGEVVKPDQFKGINDE |
| GMPMYQRPFMRGKLYIHFSVDFPDSLPVDQCKALEAVLPSRTSVQLSDMELDECEETTLHDVNFEEEMRRKQQQAQEAYD |
| EDEDMHGGAQRVQCAQQ\* |

Manes.09G157100

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| MAEEKIAIAKDVTELVGKTPLVYLNHVVDGCVARVAAKLEMMEPCSSVKDRIGYSMIADAEEKGLIKPGESVLIEPTSGN |
| TGIGLAFIAAAKGYKLIITMPASMSLERRMVLRAFGAELVLTDPARGMKGAVQKAEEILAKTPNSYILQQFENPANPKIH |
| YETTGPEIWKGSGGKVDAFVSGIGTGGTVTGAGKYLKEQNPDIKLYGVEPAESAVLSGGKPGPHKIQGIGAGFIPGVLDV |
| GLLDEVVQISSEESIETAKLLALKEGLLVGISSGAAAAAAIRIAKRPENAGKLIVVVFPSFGERYLSSVLFESVKREAEN |
| MVFE\* |

Manes.01G206300

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| MKVHPSPNKRDLTASQYDVSFSSTAANPMPDKKLKRLPHVFARVLELPFNSDADVFVLETQESFLFVANSEDITITNNFQ |
| AHVIKILPGVTKIEVRGDRSADRCSTEGLYTDTWRFRLPATTFPEMASTRCIVGQLVVTVPKTLNLEDVIEDDCNAEEML |
| FLVE\* |

Manes.11G113000

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| MKTILSSETMDIPDGVKIKINAKVIEVEGPRGKLTRNFKHLNLDFHLIKDEATGKRKLKIEAWFGSRKTSAAIRTALSHV |
| ENLITGVTKGYRYKMRFVYAHFPINASITNSNSAIEIRNFLGEKRVRKVDMLEGVTVVRSDKVKDELVLDGNDIELVSRS |
| AALINQKCHVKNKDIRKFLDGIYVSEKGTVVEEE\* |

Manes.12G144200

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| MVSLVFLALVVLIFLLFLLRNRKTRTDPHFPPGPRALPFIGNLHQLHNSASYISLWKLSQKYGPLMSLRMCFEPVLVVSS |
| AKMAKEIMKTHDHIFSARPSKLSQQKLSYNGLDLAFAAYGSYWKEMRKICKVHLFNSNRARSFRPIRESEVSHMLGEICG |
| LVSASQPVDITEAIMSLANTIISKITFGQRYKEENSRIQALLREAETLFTSFYVSDYFPLLGFVDKLTGLIHRLEKNFQE |
| FDIFYEKIIQEHLDYGRSELDDHSEDILDGLLKLRNDPSLKFQVTFSHIKAVLMNIVTGATDNNAAAVIWAMTFLMKNPT |
| KMKKAQEEVRGLVGNKGFVNEDEIQELSYMKAVVKETMRLQPALPIIPRETTEDCNLDGFKIPAKTTVYVNVYAIGRDPQ |
| VWENAQEFCPERFINSSVDLKGQNFELIPFGGGRRMCPGVSIALATVELALANLLYKFDWEMPFGMSNEDLDMEVVPGLT |
| MHKKNALCLMAKQYI\* |

Manes.13G068200

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| MLAAVLSPSSPTRVFASATLRKPPATFSRLWPFSSSLCASRFQVRAMADSASAPFKKIQIQRDDTTFDAYVVGKEDAPGI |
| VVLQEWWGVDFEIKNHAVKISQLEPGFKALIPDLYRGKVGLDVAEAQHLMEGLDWQGAVKDIRASVNWLKANGSKKVGVT |
| GFCMGGALSVATSVLVPEVDAVVAFYGVPSSELADPAQAKAPVQAHFGELDNFVGFSDVTAAKALEEKLKASGMPYEVHI |
| YPGNAHAFMNRSEEGIKRRKGMGIPDEDEAAVELAWSRFKTWMTRYLSA\* |

Manes.14G054600

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| MGKVKIGINGFGRIGRLVARVALQRDDVELVAVNDPFISVEYMTYMFKYDTVHGQWKHHELKVKDDKTLLFGEKPVTVFG |
| VRNPEEIPWAETGAEYIVESTGVFTDKDKAAAHLKGGAKKVIISAPSKDAPMFVVGVNEKEYKPDLHIVSNASCTTNCLA |
| PLAKVIHDRFGIVEGLMTTVHSITATQKTVDGPSMKDWRGGRAASFNIIPSSTGAAKAVGKVLPALNGKLTGMAFRVPTV |
| DVSVVDLTVRLEKKASYDQIKAAIKEESEGKLKGILGYTEDDVVSTDFIGDNRSSIFDAKAGIALNDNFVKLVAWYDNEW |
| GYSTRVVDLIRYIASTQ\* |

Manes.08G078500

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| MANAASGMAVHDDCKLKFLELKAKRTYRYIVFKIEEKQKQVIVEKLGEPTQSYEDFAASLPADECRYAVYDFDFVTAENC |
| QKSRIFFIAWSPDTSRVRSKMIYASSKDRFKRELDGIQVELQATDPTEMGLDVFRSRAN\* |
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