The accession ID and protein sequence of the COMT gene of the species used obtained from NCBI

*Avena sativa L.*

>AsCOMT24 Accession ID: KAK1678936.1

MTLKLLVEVSPQELLVSLAELQNHILGYVKSMSLKCAVDLDIPGAIHRRGGTATLADIVIDTKVHPAKVADLQRVMELLSASGIFSTTAAGEDGGAVLYGLTTTCRFLVGWRNLSPMVPFLANPLVVSSFSSMPDWLRSEPAPAGAGSLFELAHGCSQWEMGSKDAEFNSVMNSSRAADNQLFLEVIIFDKGRIFRGLSSIVDVGAAKGEGTKIIASAFPRIKCTVMDLPHVVGQDADGAGHDNLQFVAGDMFQSIPSADAVVLKNILHDYGHDDCVKILQRCKEAIPAKNVGGKVIIIDMVRGSAHGDMKISEMEALQNMYMMYTNGMERDESEWKRIFSDAGFSDNYKIMPVLGPYSVIEIYP

>AsCOMT32 Accession ID: XP\_047075078.1

MSTRAIEVPTDAELLQAQADLWRHSLYYLASMGLRCAVELEIPTTIHHLGGVTSLPDLMTALSLPTVKMPFLGRLMRVLVNSGVFASDNNSKSGEELFRLTPLSRVLVHGVVANEHHSQKYFVLGVTSPHYTEAALGLADWFKKDTVPPVTSPFEDKYGVPLFDEKTALLDKELDDVVNKGLAAHDNLGIGTILRECSDIFKGVESLTDCCGGDGTTARALVKAYPHLKCTVLDLPKVIEKAPPHDVINYVAGDLFHTVPPSQAVMLKLVLHFWSDEDCVKILAQCRKAIPLREEGGKVIIIEIVVEPSLGPIMFEAQLLFDMLMMVNTRGGQRDEKHWRELFMQAGFTDYKIVKKLGARSVIEVYP

>AsCOMT30 Accession ID: XP\_048537012.1

MSFPHAHQTYSTYKADRLLDNSRTTRGTRRLTSLARSVHQSTSLKMSSPATDPTSAAADDLSPAEARLAMMELANMISVPMALTAVIRLGVPAAIWAGGANAPLPAADLLPPGHPDPSVLERLLRLLASRGVFSEHTAAPGAARRYALTAVGRTLVPTGPSGASYADYVLQHHQDALVLAWPRLRDAVLDPAGPEPFARAHGGVPAYAYYGQDREANEVMLRAMTGVSEPFMEALLDGYGGGFDGVATLVDVGGSSGACLEMIMRRVGTIREGVNFDLPDVVAAAPPIAGVRHVGGDMFKSIPTGDAIFMKWVLTTWTNDECTAILKNCHEALPQGGKLIACEPVVPETTDTSTRTRALLENDIFVMTTYRTQGRERSEEEFRQLGLTAGFTGFRALYLDPFYAVLEYVK

>AsCOMT28 Accession ID: XP\_051200558.1

MALIHSTNQALLDGQLNLLDNTFGYIKSMALKAALDLRIADAFDHHGGAATLTQIADRVTLHRSKISSLRRLMRVLIVSGVFGVQSAEGSSELLYVLTPTSSLLVGPRNLVSITTMSLSPYFVASYLELGTWFHQELPDPCIFKLAHGEPLWKLAEHDASFDALINDGMVSDTSFIMDIAIKESGGVFQGITSLIDVAGGLGAATQAISKEFPHVEYTVLDLDHVIAKAPTGTNVKYIAGDMFESIPRANAVFLKWILHDWGHDDCVKILRNCKKAIPPRDAGGKVIILDIVFGAGQSNVKHTEVQASFDVYMMIINGIERDELEWKMMFSEAGFTDYKIIPVLGFRSIIEVYP

>AsCOMT29 Accession ID: XP\_051200558.1

MALIHSTNQALLDGQLNLLDNTFGYIKSMALKAALDLRIADAFDHHGGAATLTQIADRVTLHRSKISSLRRLMRVLIVSGVFGVQSAEGSSELLYVLTPTSSLLVGPRNLVSITTMSLSPYFVASYLELGTWFHQELPDPCIFKLAHGEPLWKLAEHDASFDALINDGMVSDTSFIMDIAIKESGGVFQGITSLIDVAGGLGAATQAISKEFPHVEYTVLDLDHVIAKAPTGTNVKYIAGDMFESIPRANAVFLKWILHDWGHDDCVKILRNCKKAIPPRDAGGKVIILDIVFGAGQSNVKHTEVQASFDVYMMIINGIERDELEWKMMFSEAGFTDYKIIPVLGFRSIIEVYP

>AsCOMT14 Accession ID: XP\_047044647.1

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>AsCOMT23 Accession ID: XP\_047061699.1

MDADRDPSLATDDELLRAQAELWSHVFAYTKSMALRCAVELGIPDAVHRRGGSATVPDLVAELSLPPSRAPYLRRLLRLLAHAGFFDAAGSEEPEDTYGLTLLSRLLVSAPGAGQGLSPFALAMLHPVIVSPSMSLASWFRAADGSARVPFAAAHGGRELWAVAKDDPGFGAAFNDAMACDGRFVMDLIVRGNGRDLFRELASLVDVGGGSGGAAKAIAAAFPHVRCSVLELPHVVASVPPGDGGVEFVAGDMFEHVPKADAVLLKWILHGWGDEECVKILRRCKEAVPAGGRVIVMDLVVGSSPGDARATETQLLWDVMMMGVVGSPERDEREWSKIFHDAGFSGYKILSILGIRSVIEVYP

>AsCOMT8 Accession ID: XP\_066367447.1

WVLHDWGDAECVKILKNCKRAIPSRDDGGKVIVIDMVVGAGPQNSKHKDTEVMFDLFIKLFNGIERDEQEWKKITFEAGFSDYKVIPALGVRSIIEVYP

>AsCOMT1 Accession ID: AFU52936.1

MGHVHTTSENKAMMSTEEFLQAQTELYNLSLAYVKSVALRASIDLQIPEAIHRRGGSATLSDIAAETGTHGTKVSYLGRLMRVLAISGVFSMHSDDGAVYYKLTHVSRLLVPALSPMVPVLVDPLAATALFSLADWFTDERVSELTLFEAAHGCTRSEMTAKKGMGGMFNAGMVADSRVLTDILLSEHGDMFEGVESLVDIGGGHGGVAEAIAKALPNMKCTVLDLPHVVKEAATGNVQFVAGDAFQYIPPADAVLLKWFLQLFNDEDAIKVLRRCREAIPAKGKVIIFDVVVGSNCKDGPTRETQLLFDIFMMRVGGREREEQQWRKIIFEAGFTDYKISVVLGFRSIIEVYP

>AsCOMT25 Accession ID: XP\_047083194.1

MTLKLLAEVSPQELLVGLAELHNHFLGYVKSLSLKCAVDLGIPEAIHRRGGTATLADIATDTKVHPAKVADLRRVLELLTASGMFTTSTAGEDGGGAVLYGLTTTCRFLVGWHNLSPMVPFLLNPLVVSSFFSMPDWLRSEPAPAAAGSLFELAHGCSQWEMATKDAEFNDVLNGSMAADSQVFLEVIIMDKGRIFRGLGSLVDVGGGKGAGTKVIASAFPRIKCTVMDLPHVIAGQVDAGHENLNFVAGDMFQSIPSADAVVLKNILHDWGHDDCVKILQRCKEAIPARNAGGKVIIIDMVRGLAHDEKKLTEMEAIQNLFMMYINGVERNESEWKGIFSDAGFSDDYKIMPVLGPYSVIEIYP

>AsCOMT22 Accession ID: XP\_051178062.1

MGSTAEMFVVPAVTNDEEACTYAIELAAACILPMTLKSTIELGLLEILVGAGGKALSPSEVVARLPSGTSNPDAPAMVDRMLRLLASFNVVSCQVEEGTDGLLARRYSPAPVCKYLTPNEDGVSMAPLVLARNDKVTMESWYHLTSAVLDGGLPFEKAHGMPAFKYYGTDARFNRVFNEAMKSHSTIITKKLLDSYAGFNDIGTLVDVGGGTGATICAITSKYPHIKGINLDLPHVISEAPPSPGVRHVCGDMFKEVPSGDAILMKWILHDWTDEKCLTLLRKCYDALPTHGKVILVEFILPENITDTTKGVFMADMAMLTNTPGGKERYRREFEALANCTGFGAFKATYIYANVWVIELTK

>AsCOMT10 Accession ID: XP\_051209901.1

MAVNGVSTDQALLDAEHELWRTSFSYIKSMAVKSALDLRLADAIDHHGGAATLPQIVARVAVHPSKVPCLRRLMRVLAVSGVFSVQQHQTVLPAAIANDNGNGAVITNGVGAATANGNGTAAEPLYALTPVSRLLVGSRSLASIMSMILDPAFITPFLGIGAWFEHPLPDPCIFRQQHGVALWKMADKDPAFDALVNDGMVSDSSFIMEIAIRECGEVFQGITSLIDVAGGLGAASQVISKAFPGLECTVMDLGHVIAKAPSSTAVKYVVGDMFESIPPADAVFIKWVLHDWGHKDCVKILKNCKKSIASGEKGGKIIIMDIVVGARPSGEKHKELQVLFDMYMTIVDGIERDEHEWEKIFVEAGFSGYKIIPVLGFRSIIEVYP

>AsCOMT26 Accession ID: XP\_051178062.1

MAAQAQLTVPTDAELLQAQADLWRHSLYYMTSMAFQCAVKLGIPTTIHRLGGTASLPDLVTALSLPPAKLPYLRRIMRLLATSGVFATTDVDVYRLTPISFLLLDGVDVDGHPSQTTVVLAATARHCVEAALGLTDWFRKDVAGSPFEDLHGVTLFDGSMAEAEPEIDAVFNEALAAHDNSGFVAVLRECGGTLFQGLDSLTDCCGGDGTSARSIVEAFPHIKCTVLDLPRVIDAIPADGVVNYVAGDMFNLVPPAQAVLVKLVLHHWSDEDCVKILAQCKKAIPSREEGGKVIVIDILVDPSSGPTHEAELLVDVAMMVLTNGRQRDESDWAEIFTKAGFTGYNIVKKLGARGVFEVYP

>AsCOMT27 Accession ID: KAK1607286.1

MGSITTATIADDEAACMYAMQLAAGSILPMTLKNAIELGMLEILVGAGGKALSPSEVVARLPFAATNPDAPAMVDRMLRLLASFDVVSCEVEEGMGGVLARRYGPAPVCKWLTPNKDGVSIAPLVLMNDKVVLESWYHLKDTVLEGGLPFERAHGVTAFEYHGTDPRFNHVFNEAMKNHSTIITNKLLEFYTGFDDIGTLVDVAGGVGATIGAITSKYPHIMGVNFDLPHVLSEAMPFPRVQHVGGDMFKKVPSGDAILMKWILHDWTDEQCVTLLRNCFDALPAHGKVVIVECILPMIPAATPEAQRSFEFDMIMLTHTPGGKERDQREFEELSKSAGFTSVKTTYIYANSWVMEFIK

>AsCOMT13 Accession ID: XP\_047045402.1

MALNGQSTDQALLDAEQELWTTSFSYIKSMALKSALDLRLADAIDHYGGAATLSQIVARVTLHPSKIPCLRRLMRVLTLSSVFTVQQAAGAGDPLYALTPVSRLLVGSRSSASLMACVLNPVLVTPFLQIGAWLQHALPSPCIFEHTHGEGIWKMAGKDAAVDSLINNALASDSHFIVDIAVKEAGDVFRGLSSLVDIGGGLGEAAQVISEAFPHVECSVLDLEHVVSNAPAGTNVKYVAGNMFESVPPANAAFLKSVLHDWDDEKCVKILESCRKAIPPREVGGKVIIIDIVVGAGLGDNKHKEVHALFDMYIMLINGIERDEQEWSKIFLEAGFSDYKITPVLGFRSIIEVYP

>AsCOMT12 Accession ID: XP\_047093062.1

MALNGPSTDQALLDAEHELWTTSFSYIKSMALKSALDLRLADAIDHHGGATTLPQIVARVMLHPSKIHCLRRLMRVLTLSSVFTTQQADGTGEPLYTLTPIGAWFQHALPDPCIFEHMHGEALWEMAGKDATLDALINKAMVSDSGFIMDVAVREAGDVFRGLSSLVDVGGGLGAAAQVISKAFPHVGCSVLDLEHVVSNAPAGTNVKYVAGDMFESVPPANAAFLKSVLHDWDDEKCVKILESCRKAIPPREVGGKVIIIDIVVGAGLGDEKHKEVHALLDMYIMFINGIERDEQEWSKIFLEAGFSDYKIIPVLGFRSIIEVYP

>AsCOMT11 Accession ID: XP\_047045402.1

MALSSDIYKLMSTEDMLQGHAELCIHAYGFVKSMALKCAMELGIPGAIHGNGGCATLGELATRIALPPSRLPRLRRLMRVLAVSGVFSVQHQPDSAGDALYGLTVASRLLVVDNEETSSSGLTRLVSLILDPNLTAPFSGMSAWFMDDERQRSFFEMHHGEDMWDMASRDSALTRTIGDGMAADSRFVVEVLLRESRARDVFRGVRSMVDVGGGSGAIARAIAAAFPHVECSVLDLPHVVAEAPEDGDVRFVSGDMFEYIPPADAVLLKSVMHDWRDDECVKILRRCKEAIPSRDAGGKVIIINMVVGSESSNQGNDRKEEAQVLYDLFLMVVEGSEREEHEWEKIFLEAGFSGYKIIPVLGIRSIIEVYP

>AsCOMT9 Accession ID: XP\_047045430.1

MALKSALDLGIADAIHHHGGAATLPQIVAKAALHPSKLSCLSRLMRVLTVSGIFNIQDAQNGDEAVYTLTSASRLLVGTPSLVPALHMMLHPIQVSSFFDFGKWFQQELPEGMDLFTLKHGKTMWELADQDPAYNALLNNGMVSDSRFLMDIVLKECSDVFRGISSLVDVAGGLGGAAQTISKAFPHVKCSVMDLAHVVAKAPTGTDVEYIVGDMFDSVPPANVVFLKWVFHDWGDAECVKILKNCKRAIPSRDGGGKVIVIDMVVGDGPQNSKHKESQVIYDLFIKLINGIERNEQEWRKIIFEAGFSDYKIIPALGVRSIIEVYP

>AsCOMT7 Accession ID: XP\_047045335.1

MAALIQPDELAMSADELLQAQVELYHHCFAFVKSLALKAATDLGIPDAIHRRGGAATLSDDLAAETGIHPTKLSSLRRLMRVLTTSSIFSIVDDAGGAVYKLTRVSRLLVGAGGRAHLSPAVGAFVSPFPVAALFSMHEWFTDERAAAMSLFEVAHGRTLWEVTAAGRGDQIFNTAMAADSRFTMESLLREECGGAVFGAVRGSLVDVGGGHGATASAIARAFPHVKCTVLDLPHVVAEAPVDDTLTFVAGDMFDHIPPADAVLLKWILHEWNHEDCVKILRRCKEAIPTQDEGGKVIIIETIIGSPGSQGIVSTENEVLLDGFMMCMDGIEREDQEWSKIFFEAGFTDYKITTTTGFRSIIELYP

>AsCOMT6 Accession ID: XP\_047044647.1

MAPTQAKHSSQDLLQAQVDLWHHALGFVKSMALKCAMEMQIPNTIQHHGGAMTPSELATAIGLHQSKLPRLRRLMRVLTVSGIFVVHESASADKEAVYGLTPTTCLLVSDEVKSNLFPILSLMLDSTVITPFFGMKSWFHDEDSTSLFKKIHGLTFWEMADQDETYNQLINNAMVSDSNFLMDIILRECSDVFTGISSLVDVAGGLGGAARAIANAFPQIKCTVLDLPHVVADAPTDDHVPFIAGDMFEYIPPANALFLKWIFHDWGDEDCVKILKKCKEAIPSRDAGGKVIIVDMVVGSGPNDIVTRETQVFFDLFIMYLEGIEREEFEWKKIFMEAGFSEYKIISVLGVRSVIELYP

>AsCOMT5 Accession ID: XP\_051209879.1

MALNGKSTDQALLDAEQELWTTSFSYIKSMALKSALDLGLADAIDHYGGAATLSQIVARVTLHPSKIPCLRRLMRVLTLSGVFTIQQADGAGDPLYALTPVSRLLVGSRSSASLMACVLSPVLVTPFLQIGAWFQHALPNPCIFEHTHGEAIWQMAGKDGTVDSLINNALASDSQFIVDIAVKEAGDVFRGLSSLVDIGGGLGEAAQVISEAFPHVECSVLDLEHVVSNAPAGTKVKYVAGDMFESVPPANAALLKSVLHDWDDEKCVKILESCRKAIPPREVGGKVIIIDIVVEAGLQDKKHKEVHVLFDMYMMLINGIERDEQEWSKIFVEAGFSGYKITPVLGFRSIIEVYP

>AsCOMT4 Accession ID: XP\_047093062.1

MALTGDIYKLMSTEDMLQGHAELCIHAYGFVKSMALKCAMELGIPAAIHGNGRGGGATLGELANRIALPPSRLPRLRRLMRVLTVSGVFSLQHQPEPAGDAVYGLTVASRLLVGDNDETSSSGLTRLVSLMLDPNLTAPFSGMSAWFMDDERPRSFFEMHHGEDMWDMAAREAALSSTIGDGMTDDSRFVVEVLLRESRACDVFRGLWSMVDVGGGSGAIARAIAAAFPHVECSVLDLPHVVAEAPEDGDVRFVSGDMFEYIPPADAVLLKSVMHDWRDDECVKILQKCKEAIPSRDEGGKVIIINMVVGSGTSNQGKDLKEEAQVLYDLFLMVFEGGEREEHEWEKIFLEAGFSGYKIIPVLGIRSIIEVYP

>AsCOMT3 Accession ID: XP\_047069291.1

MALNQEQHILDQGLLDGQLVLWHNTFSYIKSMALKSALDLGIADAIHHQGGKASLPQIVAKATLQPSKISCLRRLMRVLTVSGVFATEHSADGEAVYALTPASRLLVGSVNMVPIMNMLLHPILVSPFSDLGTWLQQELPDPELFKLKHGKTFFELADHDPSYNKLLNDGMASDSRFLMDIAIRECPGVFQGIGSLVDVAGGHGGAAQAIAKAFTDVKCSVLDLDHVVAKAPTGTAVEYIAGDMFESVPPADAVFLKWIMHDWRDADCIKILKNCKKAITAKDIGGKVIIIDMVVGAGPQDLKHKETQVMFDLFIMFINGIERDEQEWKKIIFEAGFSDYKITPVLGVRSIIEVYP

>AsCOMT2 Accession ID: XP\_047045403.1

MALNGEQHILDQGLLDGQLELWHNTFSYIKSMALKSALDLGIADAIHHQGGKATLPQIVAKTALHPSKISCLRRLMRVLTVSGVFATEHSADGEAVYALTPASRLLVGSANMVPIMNMLLHPILISPFSDLGTWFQQELPDPDLFKLKHGKTFWEMADHDPSYNTLVNDGMASDSRFLMDIAIRECAGVFQGIGSLVDVAGGHGGAAQAISKAFPDVKCSVLDLDHVVAKAPTGTAVEYIAGDMFESVPPADAVFLKWVMHDWSDVDCIKILKNCKKAIAAKDVGGKLIIIDMVVGAGPQDPKHKETQVMFDLFIMFVNGIERDEQEWKKIIFEAGFSDYKITPVLGVRSVIEVYP

>AsCOMT16 Accession ID: XP\_037489468.1

MDSHGKPIPATSAEEELVQAHAELMRHSFGYLKSMALSSAVKLGIPDAIHHHGGAASLPELLAILPLPQSKRPYLSRLMKMLVVAGIFGDAPVGEGCEVRYCLTPVSRLLVGDAAVNGGACRSPVVLVATSAAHLTASARLHEWLLQEEVESAFAMAHNGEGFFGVAGGEGVCSALNSEAKASESRREAETVVRACGRVFEGITSLVDVGGGNGTAARAIARAFPHVKCTVLELPHVVDAVSALPSEEEGAVEFVAGDMMQSIPPADAILFKYVLHNWSDEDCLGILTRCREAIPSGGKVIIIDTVVGFGSPSHEILESQLLMDMCMMVLLDGKERDEQCWGKIFMEAGFSHYKIKHLQALGSAIEVYV

>AsCOMT15 Accession ID: XP\_047069235.1

MELAWSFTASSPPSLVCTTFARTAPCSGQLGCQRRMPGMWRSRVVRSHRQGGMVVLHAKTENDDMMSTEGLLEAQLELYHHSMAYVKSAALRAAADLRIPDAIHRHGGVATLSDVATETGIHPTKYSHLRRLMHALTIFGIFSVEGDARYKLTRVSRLLVEGGEGSCTQTTQSPSVRVLVDPLSLTALCSIAEWFTDERASAMTLFEVAHGCTRSEMTAKKGTGGLFNAGMVADSRLVMETVLQQHSSVFQGVSSLVDAGGSHGAAAAAITKFLPHIKCTVLDLPHVVAGAPTAVGGNVQFVAGDVFEYIPPADAVLLKWVMCLWQDEDAIKVLRRCKEAIPARDDGGKVIIIDAVVNTCWGSQNVLLRETQALFDVQMMRVDGCEREEHQWRNIFVEAGFRDYKITPMLGFRSIIEVYP

>AsCOMT20 Accession ID: XP\_047083194.1

MTLKLLAEVSPQELLVGLAELHNNFLGYVKSLSLKCAVDLGIPEAIHRRGGTATLADIATDAKVHPAKVADLQRVMELLTASGIFTTSTAGEDGGGAVLYGLTTTCRFLVGWHNLSPMVPFLLNPLVVSSFFSMPDWLRSEPAPAGAGSLFEVAHGCSQWEMGRKDAEFNDILNGSMAADSQVFLEVIIMDKGRIFRGLGSLVDVGGGKGAGTKVIASAFPRIKCTVMDLPHVITGHVDAGHENLNFVAGDMFQSIPSADAVVLKNILHDWGHDDCVKILQRCKEAIPARNAGGKVIIIDMVRGLAHEEKKIDEMEAIQNLFMMYINGVERNECEWKGIFSDAGFSDDYKVMPVLGPYSVIEIYP

>AsCOMT19 Accession ID: XP\_047083194.1

MTLKLLAEVSPQELLVGLAELHNNFLGYVKSLSLKCAVDLGIPEAIHRRGGTATLADIATDAKVHPAKVADLQRVLELLTASGIFSTSTAGEDGGGAVLYGLTTTCRFLVGWHNLSPMVPFLLNPLVVSSFFSMPDWLRSEPAPAGAGSLFEVAHGCSQWEMGKKDAEFNDTLNGSMAADSQVFLEVIIMDKGRIFRGLSSLVDVGGGKGAGTKVIASAFPQIKCTVMDLPHVIAGQVDAGHENLNFVAGDMFQSIPSADAVVLKNILHDWGHDDCVKILQRCKEAIPARNAGGKVIIIDMVRGLAHVEKKITEMEAIQNLFMMYINGVERNESEWKGIFSDAGFSDDYKIMPVLGPYSVIEIYP

>AsCOMT18 Accession ID: XP\_047087786.1

MAAHHAPTMAVPTDAQLIQAQADLWRHSLCYFTPMALRCAVQLGIPTAIHRLGGTASLSDLVAALSLPPSKTPYLSRIMRLLVTSGVMASHEEGVYSLLPLSYLLVDGISIDGEASQVAIVLAATSRHYLEAALGLSDWFKKDVAPPLPAPFEDVHGATILEESMALLDPESDKVIHEAVAAHDNMGIGTILRECHDLFKGLESLTDCCGGDGTTARAIVQAFPHIKCHVLDLPKVIERAPRGDGSVNYVAGDLFHSIPAAQAVMLKLVLHFWSDEDCINILSHCKKAIPSREAGGKLIIIDIVVDPSSSGQILETQLLMDVAMLVCTRGRQRDENDWRSIFTKAGFSDYKIVKKLGARGVIEVYP

>AsCOMT17 Accession ID: XP\_047044647.1

MAPTQARHSSQDLLQAQVDLWHHALGFVKSMALKCAMEMQIPNTIQHHGGAMTPSELATAIGLHPSKLPRLRRLMHVLTVSGIFVVHESASADKEAVYGLTPTTCLLVSDEVKSNLFPILSLMLDSTVITPFFGMKSWFHDEDSTSLFKKIHGLTFWEMADQDETYNQLINNAMVSDSNFLMDIILRECSDVFTGISSLVDVAGGLGGAARAIANAFPQIKCTVLDLPHVVADAPTDDHVPFIAGDMFEYIPPANALFLKWIFHDWGDEDCQDTEKMQGSYPFQRCRWEGDNC

>AsCOMT33 Accession ID: XP\_044443717.1

MAAQAQAQSIEVPTDAELLQAQADLWRHSLYYLSSMGLRCAVQLEIPTAIHRLGGVTSLPDLMSALSLPSCKLPFLHRLMHVLVTSGVFAADTDSESGVELYRLTPLSRILVEGVDAEEHHSQKYFVLGVTSPHCTEAALGLADWFKKDLEPPVPSPFEDMHGVPIFDERTALLDKDFDAVTNQGLAAHDNLGIATILRECGDLFMGLESLTDCCGGDGTTARAIVKAYPHIKCTVLDLPKVIDKVPTDGVITYVAGDLFHSIPSSQAMMLKLVLHFWSDEDCVRILTHCRKAIPPRDEGGKLIIIDIVVGPSLGPVMFEAQLLMDMLMMVNTRGGQRDENDWRKIFIKAGFTDYKIMKKLGARCVIEVYP

>AsCOMT34 Accession ID: XP\_044443717.1

MGSTAADMAASADEEACMFALQLASSSILPMTLKNAIELGLLETLVAVSGKSLTPSEVAAKLPSAANPAAPDMVDRMLRLLASYNIVSCVVEEGKDGRLSRRYGAAPVCKYLTPNEDGVSMAALALMNQDKVLMESWYYLKDAVLDGGIPFNKAYGMSAFEYHGTDPRFNRVFNEGMKNHSIIITKKLLELYDGFKGLGTLVDVGGGVGATVAAITAHYPTIKGINFDLPHVISEAPPFPGVTHVGGDMFKKVPSGDAILMKWILHDWSDQHCATLLKNCYDALPAHGKVVLVECILPVNPEAKPSSQGVFHVDMIMLAHNPGGRERYEREFEALARGAGFAGVKSTYIYANAWAIEFTK

>AsCOMT37 Accession ID: XP\_044443717.1

MATSSNEELLQAHAELWSLTFSYLKSMALECAIKLGTPNAIHRRGGAVSLPDLLAAIPVPESKKPYLPRLMRFLVASGIFAADADGSAAPTYRLTPLSRLLVDDGTAAAAGAADLRSVDLSPFVLSQTNRYHVTAATHLSEWFESDAAAEMPFRTAHGADPWMVFAHDPKINMVFNAGMAADTRFAMSFVLSNYGDAFDGVTSLVDVAGGTGTAARAIANAFPRIKCSVLDLPNVIDSVPADGVVEYVAGDMMSSIPKADAMFLKYVLHDWNDEDCVRILRECRKAILKPGGKVIIVDMVVGSPSNNAAYEAQVLFDLLMMVITAGKERDEREWTKIFMDAGFSHHKTRPVLGSVALIELYP

>AsCOMT36 Accession ID: AAK68909.1

MAAQAQLTVPTDAELLQAQADLWRHSLYYMTSMAFQCAVKLGIPTTIHGLGGAASLPQLVTALSLPPAKLPYLRRIMRLLATSGVFATADVDVYRLTPISFLLLDGVDIDGHPSQTSVVLAATSRHCVEAALGLTDWFKKDVAGSPFEDLHGVTLFDGSMAEADPEIDAVFNEGLAAHDNSGFLAVLRECGDTLFQGLDSLTDCCGGDGTTARSIVEAFPQIKCTVLDLPRVIDNIPTDGVVNYVAGDMFKLVPPAQAVLVKLVLHHWSDEDCVKILAQCKKAIPSREEGGKVIVIDILVDPSSGPMHEAELLVDVAMMVFTNGRQRDESDWGEIFTKAGFTGYNIVKKLGARGVFEVYP

>AsCOMT35 Accession ID: XP\_047091613.1

MAPQVPTIEVPTDAELLQAQADLWRHSLCYLTSMGLRCAVKLGIPTAIHNLGGVSSLPDLITALSIPASKQPFLGRLMRGLVTSGVFAAGNNSEAELFRLNPLSRTLVDGVVADDHHIQTSLVLVTTSPHYLEAALGLADWFMKDVVGPVPSPFEDVHGASLFDESTALLDKDFDAVANAALAAHDNQGMGTVLRQCHDLFKGLESLTDCGGGDGATARAITKAHPHVKCTVLDLPKVIDKVPSDGIVNYVAGDLFHSVPKSQAVMLKLVLHHWSDEDCVKILSQCRSAIPSREEGGKVIIIDILVGPSLGPIMFEAQVLMDMAMLVNTRGRQRDENDWRQLFMKAGFSDYKIVKKVGARGVFEVYK

>AsCOMT21 Accession ID: XP\_051178062.1

MGSAAELFVVPAVANDEEACTYAIELAAACILPMTLKSTIELGLLEILVGAGGKALSPSEVVARLPSGTSNPDAPAMVDRMLRLLASFNVVSCQVEEGTDGLLARRYSPAPVCKWLTPNEDGVSMAPLVLARNDKVTMESWYHLTSAVLDGGLPFDKAHGMPAFKYYGTDARFNRLFNEAMKNHSTIITKKLLDSYTGFDDVGTLVDVGGGTGATIRAITSKYPHIKGINLDLPHVISEALPSPGVHHVCGDMFTEVPSGDAILMKWILHDWADENCLTLLRKCYDALPTHGKVILVEFILPENMNDTTKGVFMADMAMLTNTPGGKERYRREFEVLANCAGFGSFKATYLYANVWVIEFTK

>AsCOMT31 Accession ID: XP\_047080235.1

MPSPAAEPTAAVAELSPAEARLAMMELANMISVPMALTAVIRLGVPPAIWAGGANAPLPAAALLPAGHPDPSVLERLLRLLTSHSVFSEHAATDGGGGTRRYALTAVGRTLVPATGASSGASYADYVLQHHQDELVHAWPRLRDAVLDPAGPEAFARVHNGVSAYAYYGQEATELMMGAMTGVSKPFMEMLLDGYVGGFEGVETLVDVGGSSCLCLEMIMRRVTTIKEGVNFDLPSVVAAAPPIDGVRDALELSPLYFPRSR

*Arabidopsis thaliana (L.)*

>AT1G21100.1 Accession ID: NP\_173534.1

MGYLFQETLSSNPKTPIVVDDDNELGLMAVRLANAAAFPMVLKAALELGVFDTLYAAASRTDSFLSPYEIASKLPTTPRNPEAPVLLDRMLRLLASYSMVKCGKALSGKGERVYRAEPICRFFLKDNIQDIGSLASQVIVNFDSVFLNTWAQLKDVVLEGGDAFGRAHGGMKLFDYMGTDERFSKLFNQTGFTIAVVKKALEVYEGFKGVKVLVDVGGGVGNTLGVVTSKYPNIKGINFDLTCALAQAPSYPGVEHVAGDMFVDVPTGDAMILKRILHDWTDEDCVKILKNCWKSLPENGKVVVIELVTPDEAENGDINANIAFDMDMLMFTQCSGGKERSRAEFEALAAASGFTHCKFVCQAYHCWIIEFCK

>AT1G21110.1 Accession ID: NP\_173535.1

MGYLFEETLSSNPKTPIVVDDDNELGLMAVRLANAAAFPMVLKASLELGVFDTLYAEASRTDSFLSPSEIASKLPTTPRNPGAPVLLDRMLRLLASYSMVKCEKVSVGKEQRVYRAEPICRFFLKNNIQDIGSLASQVIVNFDSVFLNTWAQLKDVVLEGGDAFGRAHGGMKLFDYMGTDERFSKLFNQTGFTIAVVKKALEVYQGFKGVNVLVDVGGGVGNTLGVVTSKYPNIKGINFDLTCALAQAPTYPGVEHVAGDMFVDVPTGNAMILKRILHDWTDEDCVKILKNCWKSLPQNGKVVVIELVTPDEAENGDINANIAFDMDMLMFTQCSGGKERSRAEFEALAAASGFSHCQFVCQAYHCWIIEFCK

>AT1G21120.2 Accession ID: NP\_173536.2

MHQKYTNSSSQHYKKETNTLSRYIFPHFDQFDHVECLEGEESNKKEREMGYLFEETLSSNPKTPIVVDDDNELGLMAVRLANAAAFPMVLKASLELGVFDTLYAEASRTDSFLSPSEIASKLPTTPRNPGAPVLLDRMLRLLASYSMVKCEKVSVGKGERVYRAEPICRFFLKNNIQDIGSLASQVIVNFDSVFLNTWAQLKDVVLEGGDAFGRAHGGMKLFDYMGTDERFSKLFNQTGFTIAVVKKALEVYQGFKGVNVLVDVGGGVGNTLGVVTSKYPNIKGINFDLTCALAQAPSYPGVEHVAGDMFVDVPTGDAMILKRILHDWTDEDCVKILKNCWKSLPENGKVVVIELVTPDEAENGDINANIAFDMDMLMFTQCSGGKERSRAEFEALAAASCFTHCKFVCQAYHCWIIEFCK

>AT1G21130.1 Accession ID: NP\_173537.1

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>AT1G33030.1 Accession ID: NP\_175611.1

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>AT1G51990.1 Accession ID: NP\_174579.1

MISLQTSGGSSEEEDMLLAIQLGGLNFVPYIVKTARELDLFEIMAKARPLGSYLSPVDLASMAAPKNPHAPMMIDRLLRFLVAYSVCTCKLVKDEEGRESRAYGLGKVGKKLIKDEDGFSIAPYVLAGCTKAKGGVWSYLTEAIQEGGASAWERANEALIFEYMKKNENLKKIFNESMTNHTSIVMKKILENYIGFEGVSDFVDVGGSLGSNLAQILSKYPHIKGINFDLPHIVKEAPQIHGVEHIGGDMFDEIPRGEVILMKWILHDWNDEKCVEILKNCKKALPETGRIIVIEMIVPREVSETDLATKNSLSADLTMMSLTSGGKERTKKEFEDLAKEAGFKLPKIIYGAYSYWIIELYPN

>AT1G63140.4 Accession ID: NP\_001321812.1

MNTIYTFITYLSRFSNQTTTMENHLQHSLTIIPKPDLIKEEQRYHEDTVSLQAERILHAMTFPMVLKTALELGVIDMITSVDDGVWLSPSEIALGLPTKPTNPEAPVLLDRMLVLLASHSILKYRTVETGDNIGSRKTERVYAAEPVCTFFLNRGDGLGSLATLFMVLQGEVCMKPWEHLKDMILEGKDAFTSAHGMRFFELIGSNEQFAEMFNRAMSEASTLIMKKVLEVYKGFEDVNTLVDVGGGIGTIIGQVTSKYPHIKGINFDLASVLAHAPFNKGVEHVSGDMFKEIPKGDAIFMKWILHDWTDEDCVKILKNYWKSLPEKGKVIIVEVVTPEEPKINDISSNIVFGMDMLMLAVSSGGKERSLSQFETLASDSGFLRCEIICHAFSYSVIELHK

>AT1G76790.1 Accession ID: NP\_177805.1

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>AT1G77520.1 Accession ID: NP\_177876.1

MTNHLQDPLPTYPKPVLTKEEQEVDEKMVSLQAESIVNTVAFPMVLKAAFELGVIDTIAAAGNDTWLSPCEIACSLPTKPTNPEAPVLLDRMLSLLVSHSILKCRMIETGENGRTGKIERVYAAEPVCKYFLRDSDGTGSLVPLFMLLHTQVFFKTWTNLKDVILEGRDAFNSAHGMKIFEYINSDQPFAELFNRAMSEPSTMIMKKVLDVYRGFEDVNTLVDVGGGNGTVLGLVTSKYPHIKGVNFDLAQVLTQAPFYPGVEHVSGDMFVEVPKGDAVFMKWILHDWGDEDCIKILKNCWKSLPEKGKIIIVEFVTPKEPKGGDLSSNTVFAMDLLMLTQCSGGKERSLSQFENLAFASGFLRCEIICLAYSYSVIEFHK

>AT1G77530.1 Accession ID: NP\_177877.1

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>AT3G53140.1 Accession ID: NP\_190882.1

MENESSESRNRARLAIMELANMISVPMSLNAAVRLGIADAIWNGGANSPLSAAEILPRLHLPSHTTIGGDPENLQRILRMLTSYGVFSEHLVGSIERKYSLTDVGKTLVTDSGGLSYAAYVLQHHQEALMRAWPLVHTAVVEPETEPYVKANGEAAYAQYGKSEEMNGLMQKAMSGVSVPFMKAILDGYDGFKSVDILVDVGGSAGDCLRMILQQFPNVREGINFDLPEVVAKAPNIPGVTHVGGDMFQSVPSADAIFMKWVLTTWTDEECKQIMKNCYNALPVGGKLIACEPVLPKETDESHRTRALLEGDIFVMTIYRTKGKHRTEEEFIELGLSAGFPTFRPFYIDYFYTILEFQK

>AT4G35150.1 Accession ID: NP\_195241.1

MEESKRNLLDEEAKASLDIWRYVFGFADIAAAKCAIDLKIPEAIENHPSSQPVTLSELSSAVSASPSHLRRIMRFLVHQGLFKEVPTKDGLATGYTNTPLSRRMMITKLHGKDLWAFAQDNLCHSQLINEAMACDARRVVPRVAGACQGLFDGVATVVDVGGGTGETMGILVKEFPWIKGFNFDLPHVIEVAQVLDGVENVEGDMFDSIPASDAVIIKWVLHDWGDKDCIKILKNCKEAVLPNIGKVLIVECVIGEKKNTMIAEERDDKLEHVRLQLDMVMMVHTSTGKERTLKEWDFVLTEAGFARYEVRDFDDVQSLIIAYRS

>AT4G35160.1 Accession ID: NP\_195242.1

MSSDQLSKFLDRNKMEDNKRKVLDEEAKASLDIWKYVFGFADIAAAKCAIDLKIPEAIENHPSSQPVTLAELSSAVSASPSHLRRIMRFLVHQGIFKEIPTKDGLATGYVNTPLSRRLMITRRDGKSLAPFVLFETTPEMLAPWLRLSSVVSSPVNGSTPPPFDAVHGKDVWSFAQDNPFLSDMINEAMACDARRVVPRVAGACHGLFDGVTTMVDVGGGTGETMGMLVKEFPWIKGFNFDLPHVIEVAEVLDGVENVEGDMFDSIPACDAIFIKWVLHDWGDKDCIKILKNCKEAVPPNIGKVLIVESVIGENKKTMIVDERDEKLEHVRLMLDMVMMAHTSTGKERTLKEWDFVLKEAGFARYEVRDIDDVQSLIIAYRS

>AT5G37170.1 Accession ID: NP\_198533.1

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>AT5G53810.1 Accession ID: NP\_200192.1

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>AT5G54160.1 Accession ID: NP\_200227.1

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*Zea mays L.* Accession ID:

>Zm00001eb018630 Accession ID: XP\_020402727.1

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>Zm00001eb018640 Accession ID: NP\_001140761.1

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>Zm00001eb018660 Accession ID: NP\_001306664.1

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>Zm00001eb040570 Accession ID: NP\_001146259.1

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>Zm00001eb090230 Accession ID: NP\_001132142.1

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>Zm00001eb090830 Accession ID: NP\_001106076.1

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>Zm00001eb092770 Accession ID: NP\_001147709.1

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>Zm00001eb164750 Accession ID: NP\_001150654.1

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>Zm00001eb169520 Accession ID: NP\_001168311.2

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>Zm00001eb170590 Accession ID: NP\_001168311.2

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>ZmNP\_001105689.1 Accession ID: NP\_001105689.1

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>ZmNP\_001146259.1 Accession ID: NP\_001146259.1

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>ZmNP\_001105914.1 Accession ID: NP\_001105914.1

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>ZmNP\_001106047.1 Accession ID: NP\_001106047.1

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>ZmNP\_001131705.1 Accession ID: NP\_001131705.1

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>ZmNP\_001132142.1 Accession ID: NP\_001132142.1

MAALAPSIVVPTDAELLQAQADLWRNSLCYLKSMALKCATELGIPTAIYSLGGAASLPDLIASLSLPQAKLPFLGRLMRLLSSSGVFAVVESPEAVYSLTPLSYLLVDGIAADNNHMDHAPFLLTVTSAHYIDLAIDLADWFKKEAKTPPFDHKHAASLFEESMERKAPGFHKMSILGLLVHDNFATSIAVREYQDVFQGVKSVTDCCYHGDGTTGKALAKAFPLIKITVLDLPQEIRKIPADGVVNYVGGDMFKSIPRAQMVLLKMVLHHWSDEDCVKILANCRKAIPSREEGGKVVIADIILDPASGPVMFQTQLLMDVCMMLMKGGRQRDVNDWRDLIQKAGFSDYKLLKKFGARGVLEIYP

>ZmNP\_001140567.1 Accession ID: NP\_001140567.1

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>ZmNP\_001146259.1 Accession ID: NP\_001146259.1

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*Oryza sativa*

>LOC\_Os04g43940.1 Accession ID: BAD38255.1

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>LOC\_Os09g13280.1 Accession ID: AAN11185.1

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>LOC\_Os08g06850.1 Accession ID:ABB47865.2

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>LOC\_Os02g44050.1 Accession ID: ABA91263.1

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>LOC\_Os08g11160.1 Accession ID: ABA97888.1

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>LOC\_Os03g37800.1 Accession ID: AAP12960.1

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>LOC\_Os12g36480.1 Accession ID: ABA98908.2

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