Supplementary file 3: Amino acid sequences of CNGCs from *Arabidopsis thaliana*, *Oryza sativa* and *Zea mays*.

>AtCNGC1

MNFRQEKFVRFQDWKSDKTSSDVEYSGKNEIQTGIFQRTISSISDKFYRSFESSSARIKLFKRSYKSYSFKEAVSKGIGSTHKILDPQGPFLQRWNKIFVLACIIAVSLDPLFFYVPIIDDAKKCLGIDKKMEITASVLRSFTDVFYVLHIIFQFRTGFIAPSSRVFGRGVLVEDKREIAKRYLSSHFIIDILAVLPLPQMVILIIIPHMRGSSSLNTKNMLKFIVFFQYIPRFIRIYPLYKEVTRTSGILTETAWAGAAFNLFLYMLASHVFGAFWYLFSIERETVCWKQACERNNPPCISKLLYCDPETAGGNAFLNESCPIQTPNTTLFDFGIFLDALQSGVVESQDFPQKFFYCFWWGLQNLSSLGQNLKTSTYIWEICFAVFISIAGLVLFSFLIGNMQTYLQSTTTRLEEMRVKRRDAEQWMSHRLLPENLRKRIRRYEQYKWQETRGVDEENLLSNLPKDLRRDIKRHLCLALLMRVPMFEKMDEQLLDALCDRLQPVLYTEESYIVREGDPVDEMLFIMRGKLLTITTNGGRTGFLNSEYLGAGDFCGEELLTWALDPHSSSNLPISTRTVRALMEVEAFALKADDLKFVASQFRRLHSKQLRHTFRYYSQQWKTWAACFIQAAWRRYIKKKLEESLKEEENRLQDALAKEACGSSPSLGATIYASRFAANILRTIRRSGSVRKPRMPERMPPMLLQKPAEPDFNSDD

>AtCNGC2

MPSHPNFIFRWIGLFSDKFRRQTTGIDENSNLQINGGDSSSSGSDETPVLSSVECYACTQVGVPAFHSTSCDQAHAPEWRASAGSSLVPIQEGSVPNPARTRFRRLKGPFGEVLDPRSKRVQRWNRALLLARGMALAVDPLFFYALSIGRTTGPACLYMDGAFAAVVTVLRTCLDAVHLWHVWLQFRLAYVSRESLVVGCGKLVWDPRAIASHYARSLTGFWFDVIVILPVPQAVFWLVVPKLIREEKVKLIMTILLLIFLFQFLPKIYHCICLMRRMQKVTGYIFGTIWWGFALNLIAYFIASHVAGGCWYVLAIQRVASCIRQQCMRTGNCNLSLACKEEVCYQFVSPTSTVGYPCLSGNLTSVVNKPMCLDSNGPFRYGIYRWALPVISSNSLAVKILYPIFWGLMTLSTFANDLEPTSNWLEVIFSIVMVLSGLLLFTLLIGNIQVFLHAVMAKKRKMQIRCRDMEWWMKRRQLPSRLRQRVRRFERQRWNALGGEDELELIHDLPPGLRRDIKRYLCFDLINKVPLFRGMDDLILDNICDRAKPRVFSKDEKIIREGDPVQRMIFIMRGRVKRIQSLSKGVLATSTLEPGGYLGDELLSWCLRRPFLDRLPPSSATFVCLENIEAFSLGSEDLRYITDHFRYKFANERLKRTARYYSSNWRTWAAVNIQMAWRRRRKRTRGENIGGSMSPVSENSIEGNSERRLLQYAAMFMSIRPHDHLE

>AtCNGC3

MMNPQRNKFVRFNGNDDEFSTKTTRPSVSSVMKTVRRSFEKGSEKIRTFKRPLSVHSNKNKENNKKKKILRVMNPNDSYLQSWNKIFLLLSVVALAFDPLFFYIPYVKPERFCLNLDKKLQTIACVFRTFIDAFYVVHMLFQFHTGFITPSSSGFGRGELNEKHKDIALRYLGSYFLIDLLSILPIPQVVVLAIVPRMRRPASLVAKELLKWVIFCQYVPRIARIYPLFKEVTRTSGLVTETAWAGAALNLFLYMLASHVFGSFWYLISIERKDRCWREACAKIQNCTHAYLYCSPTGEDNRLFLNGSCPLIDPEEITNSTVFNFGIFADALQSGVVESRDFPKKFFYCFWWGLRNLSALGQNLKTSAFEGEIIFAIVICISGLVLFALLIGNMQKYLQSTTVRVEEMRVKRRDAEQWMSHRMLPDDLRKRIRKYEQYKWQETKGVEEEALLSSLPKDLRKDIKRHLCLKLLKKVPWFQAMDDRLLDALCARLKTVLYTEKSYIVREGEPVEDMLFIMRGNLISTTTYGGRTGFFNSVDLVAGDFCGDLLTWALDPLSSQFPISSRTVQALTEVEGFLLSADDLKFVATQYRRLHSKQLRHMFRFYSVQWQTWAACFIQAAWKRHCRRKLSKALREEEGKLHNTLQNDDSGGNKLNLGAAIYASRFASHALRNLRANAAARNSRFPHMLTLLPQKPADPEFPMDET

>AtCNGC4

MATEQEFTRASRFSRDSSSVGYYSEEDNTEEEDEEEEEMEEIEEEEEEEEEEDPRIGLTCGGRRNGSSNNNKWMMLGRILDPRSKWVREWNKVFLLVCATGLFVDPLFLYTLSVSDTCMCLLVDGWLALTVTALRSMTDLLHLWNIWIQFKIARRWPYPGGDSDGDTNKGGGTRGSTRVAPPYVKKNGFFFDLFVILPLPQVVLWVVIPSLLKRGSVTLVVSVLLVTFLFQYLPKIYHSIRHLRRNATLSGYIFGTVWWGIALNMIAYFVAAHAAGACWYLLGVQRSAKCLKEQCENTIGCDLRMLSCKEPVYYGTTVMVLDRARLAWAQNHQARSVCLDINTNYTYGAYQWTIQLVSSESRLEKILFPIFWGLMTLSTFGNLESTTEWSEVVFNIIVLTSGLLLVTMLIGNIKVFLHATTSKKQAMHLKMRNIEWWMKKRHLPIGFRQRVRNYERQRWAAMRGVDECEMVQNLPEGLRRDIKYHLCLDLVRQVPLFQHMDDLVLENICDRVKSLIFTKGETIQKEGDAVQRMLFVVRGHLQSSQLLRDGVKSCCMLGPGNFSGDELLSWCLRRPFVERLPPSSSTLVTLETTEAFGLDAEDVKYVTQHFRYTFVNEKVKRSARYYSPGWRTWAAVAVQLAWRRYKHRLTLTSLSFIRPRRPLSRCASLGEDKLRLYAAILTSPKPNPDDFDDY

>AtCNGC5

MAGKRENFVRVDDLDSRLPSSSVAFQQNYASNFSGQLHPIHASNETSRSFKKGIQKGSKGLKSIGRSLGFGVYRAVFPEDLKVSEKKIFDPQDKFLLYCNKLFVASCILSVFVDPFFFYLPVINAESKCLGIDRKLAITASTLRTFIDVFYLAHMALQLRTAYIAPSSRVFGRGELVIDPAQIAKRYLQRWFIIDFLSVLPLPQIVVWRFLQSSNGSDVLATKQALLFIVLVQYIPRFLRVLPLTSELKRTAGVFAETAWAGAAYYLLLYMLASHIVGAFWYLLALERNDACWQEACIDAGNCSTDFLYCGNQNMDGYAVWNRAKESVLKSKCRADLDDNNPPFDFGIYTQALSSGIVSSQNFIVKYCYCLWWGLQNLSTLGQGLETSTYPMEIIFSISLAISGLILFALLIGNMQTYLQSLTIRLEEMRVKRRDSEQWMHHRMLPQDLRERVRRYDQYKWLETRGVDEEYLVQNLPKDLRRDIKRHLCLALVRRVPLFKSMDDKLLDAICMRLKPCLFTESTYLVREGDPVDEMLFIIRGRLESVTTDGGRSGFFNRSLLKEGEFCGEELLTWALDPKSGVNLPSSTRTVKALTEVEAFALTSEELKFVASQFRRLHSRQVQHTFRFYSHQWRTWAACFIQAAWRRYCKRKKMEEAEAEAAAVSSSTAGPSYSIGAAFLATKFAANALRTIHRNRNTKIRDLVKLQKPPEPDFTAD

>AtCNGC6

MFDTCGPKGVKSQVISGQRENFVRLDSMDSRYSQSSETGLNKCTLNIQGGPKRFAQGSKASSGSFKKGFRKGSEGLWSIGRSIGLGVSRAVFPEDLEVSEKKIFDPQDKFLLLCNKLFVASCILAVSVDPLFLYLPFINDKAKCVGIDRKLAIIVTTIRTVIDSFYLFHMALRFRTAYVAPSSRVFGRGELVIDPAQIAKRYLQQYFIIDLLSVLPVPQIIVWRFLYTSRGANVLATKQALRYIVLVQYIPRFLRMYPLSSELKRTAGVFAETAWAGAAYYLLLYMLASHVSIQFSCTILYPFLCSHKFMCMQIVGALWYLLALERNNDCWSKACHNNQNCTRNFLFCGNQNMKGYAAWDNIKVSYLQLKCPVNVPEDEEPPFDFGIYLRALSSGIVSSKNFVSKYFFCLWWGLQNLSTLGQGLETSTYPGEVIFSITLAIAGLLLFALLIGNMQTYLQSLTIRLEEMRVKRRDSEQWMHHRMLPPELRERVRRYDQYKWLETRGVDEENLVQNLPKDLRRDIKRHLCLALVRRVPLFENMDERLLDAICERLKPCLFTEKSYLVREGDPVNEMLFIIRGRLESVTTDGGRSGFYNRSLLKEGDFCGDELLTWALDPKSGSNLPSSTRTVKALTEVEAFALIADELKFVASQFRRLHSRQVQHTFRFYSQQWRTWAACFMQAAWRRYIKRKKLEQLRKEEEEEEAAAASVIAGGSPYSIRATFLASKFAANALRSVHKNRTAKSTLLLSSTKELVKFQKPPEPDFSAEDH

>AtCNGC7

MYKSQYISGQREKFVRLDDIDSSSSPATGMMMQRNCFGFNLKNRGGEKKKASKSFREGVKKIRSEGLITIGKSVTRAVFPEDLRITEKKIFDPQDKTLLVWNRLFVISCILAVSVDPLFFYLPIVDNSGSSCIGIDTKLAVTTTTLRTIVDVFYLTRMALQFRTAYIAPSSRVFGRGELVIDPAKIAERYLTRYFVVDFLAVLPLPQIAVWKFLHGSKGSDVLPTKTALLNIVIVQYIPRFVRFIPLTSELKKTAGAFAEGAWAGAAYYLLWYMLASHITGAFWYMLSVERNDTCWRFACKVQPDPRLCVQILYCGTKFVSSGETEWIKTVPELLKSNCSAKADDSKFNYGIYGQAISSGIVSSTTFFSKFCYCLWWGLQNLSTLGQGLQTSTFPGEVLFSIAIAIAGLLLFALLIGNMQTYLQSLTVRLEEMRIKRRDSEQWMHHRSLPQNLRERVRRYDQYKWLETRGVDEENIVQSLPKDLRRDIKRHLCLNLVRRVPLFANMDERLLDAICERLKPSLFTESTYIVREGDPVNEMMFIIRGRLESVTTDGGRSGFFNRGLLKEGDFCGEELLTWALDPKAGSNLPSSTRTVKALTEVEAFALEAEELKFVASQFRRLHSRQVQQTFRFYSQQWRTWASCFIQAAWRRYSRRKNAELRRIEEKEEELGYEDEYDDESDKRPMVITRSESSSRLRSTIFASRFAANALKGHRLRSSESSKTLINLQKPPEPDFDAE

>AtCNGC8

MYKSQYISGHREKFVRLDDTDSRVSMSSNATGMKKRSCFGLFNVTSRGGGKTKNTSKSFREGVKIGSEGLKTIGKSFTSGVTRAVFPEDLRVSEKKIFDPQDKTLLLWNRMFVISCILAVSVDPLFFYLPIVDNSKNCIGIDSKLAVTTTTLRTIIDVFYLTRMALQFRTAYIAPSSRVFGRGELVIDPAKIAERYLTRYFIVDFLAVLPLPQIAVWKFLHGSKGTDVLPTKQALLHIVITQYIPRFVRFIPLTSELKKTAGAFAEGAWAGAAYYLLWYMLASHITGAFWYMLSVERNDTCLRSACKVQPDPKVCVQILYCGSKLMSSRETDWIKSVPDLFKNNCSAKSDESKFNYGIYSQAVSSGIVSSTTFFSKFCYCLWWGLQNLSTLGQGLQTSTYPGEVLFSIAIAVAGLLLFALLIGNMQTYLQSLTVRLEEMRIKRRDSEQWMHHRSLPQNLRERVRRYDQYKWLETRGVDEENIVQSLPKDLRRDIKRHLCLNLVRRVPLFANMDERLLDAICERLKPSLYTESTYIVREGDPVNEMLFIIRGRLESVTTDGGRSGFFNRGLLKEGDFCGEELLTWALDPKAGSNLPSSTRTVKALTEVEAFALEAEELKFVASQFRRLHSRQVQQTFRFYSQQWRTWAACFIQAAWRRHLRRKIAELRRKEEEEEEMDYEDDEYYDDNMGGMVTRSDSSVGSSSTLRSTVFASRFAANALKGHKLRVTESSKSLMNLTKPSEPDFEALDTDDLN

>AtCNGC9

MLDCGKKAVKSQVISGRLEKFVRLDSMDSRYSQTSDTGLNRCTLNLQGPTRGGGAQGNNVSSGSFKKGFRKGSKGLWSIGRSIGLGVSRAVFPEDLKVSEKKIFDPQDKFLLLCNKLFVTSCILAVSVDPLFLYLPFVKDNEKCIGIDRKLAIIATTLRTVIDAFYLFHMALRFRTAFVAPSSRVFGRGELVIDPAQIAKRYLQQYFIIDFLSVLPLPQIVVWRFLYISKGASVLATKRALRSIILVQYIPRFIRLYPLSSELKRTAGVFAETAWAGAAYYLLLYMLASHIVGAIWYLLALERYNGCWTKVCSNSSLDCHRNFLFCGNEKMDGYAAWTTIKDSVLQLNCPVNTTDNPPFDFGIYLRALSSGIVSSKSFVSKYFFCLWWGLQNLSTLGQGLETSTYPGEVIFSIALAIAGLLLFALLIGNMQTYLQSLTIRLEEMRVKRRDSEQWMHHRMLPPELRERVRRYDQYKWLETRGVDEENLVQNLPKDLRRDIKRHLCLALVRRVPLFENMDERLLDAICERLKPCLYTESSYLVREGDPVNEMLFIIRGRLESVTTDGGRSGFFNRSLLKEGDFCGEELLTWALDPKSGSNLPSSTRTAKALTEVEAFALIADELKFVASQFRRLHSRQVQHTFRFYSQQWRTWAAIFIQAAWRRYVKKKKLEQLRKEEEEGEGSVTSIRATFLASKFAANALRKVHKNRIEAKSTIELVKYQKPSEPDFSADDTS

>AtCNGC10

MAFSHDNRVRFKDEGKPLSSEYGYGRKARPSLDRVFKNVKWGFKKPLSFPSHKDPDHKETSSVTRKNIINPQDSFLQNWNKIFLFACVVALAIDPLFFYIPIVDSARHCLTLDSKLEIAASLLRTLIDAFYIIHIVFQFRTAYIAPSSRVFGRGELVDDAKAIALKYLSSYFIIDLLSILPLPQIVVLAVIPSVNQPVSLLTKDYLKFSIIAQYVPRILRMYPLYTEVTRTSGIVTETAWAGAAWNLSLYMLASHVFGALWYLISVEREDRCWQEACEKTKGCNMKFLYCENDRNVSNNFLTTSCPFLDPGDITNSTIFNFGIFTDALKSGVVESHDFWKKFFYCFWWGLRNLSALGQNLQTSKFVGEIIFAISICISGLVLFALLIGNMQKYLESTTVREEEMRVRKRDAEQWMSHRMLPEDLRKRIRRYEQYRWQETRGVEEETLLRNLPKDLRRDIKRHLCLDLLKKVPLFEIMDEQLLDAVCDRLRPVLYTENSYVIREGDPVGEMLFVMRGRLVSATTNGGRSGFFNAVNLKASDFCGEDLLPWALDPQSSSHFPISTRTVQALTEVEAFALTAEDLKSVASQFRRLHSKQLQHTFRFYSVQWRTWSVSFIQAAWRRYCRRKLAKSLRDEEDRLREALASQDKEHNAATVSSSLSLGGALYASRFASNALHNLRHNISNLPPRYTLPLLPQKPTEPDFTANHTTDP

>AtCNGC11

MNLQRRKFVRLDSTGVDGKLKSVRGRLKKVYGKMKTLENWRKTVLLACVVALAIDPLFLFIPLIDSQRFCFTFDKTLVAVVCVIRTFIDTFYVIHIIYYLITETIAPRSQASLRGEIVVHSKATLKTRLLFHFIVDIISVLPIPQVVVLTLIPLSASLVSERILKWIILSQYVPRIIRMYPLYKEVTRAFGTVAESKRVGAALNFFLYMLHSYVCGAFWYLSSIERKSTCWRAACARTSDCNLTVTDLLCKRAGSDNIRFLNTSCPLIDPAQITNSTDFDFGMYIDALKSGVLEVKPKDFPRKFVYCFWWGLRNISALGQNLETSNSAGEIFFAIIICVSGLLLFAVLIGNVQKYLQSSTTRVDEMEEKKRDTEKWMSYREIPEYLKERIRRFEDYKWRRTKGTEEEALLRSLPKDLRLETKRYLFLKLLKKVPLLQAMDDQLLDALCARLKTVHYTEKSYIVREGEPVEDMLFIMRGNLISTTTYGGRTGFFNSVDLIAGDSCGDLLTWALYSLSSQFPISSRTVQALTEVEGFVISADDLKFVATQYRRLHSKQLQHMFRFYSLQWQTWAACFIQAAWKRHCRRKLSKALREEEGKLHNTLQNDDSGGNKLNLGAAIYA

>AtCNGC12

MNHRRSKFARIDSMGVDGKLKSVRGRLKKVYGKMKTLENWRKTVLLACVVALAIDPLFLFIPLIDSQRFCFTFDKTLVAVVCVIRTFIDTFYVIHIIYYLITETIAPRSQASLRGEIVVHSKATLKTRLLFHFIVDIISVLPIPQVVVLTLIPLSASLVSERILKWIILSQYVPRIIRMYPLYKEVTRAFGTVAESKWAGAALNLFLYMLHSYVFGAFWYLSSIERKSKCWRAACARTSDCNLTVTDLLCKRAGSDNIRFLNTSCPLIDPAQITNSTDFDFGMYIDALKSGVLEVKPKDFPRKFVYCFWWGLRNISALGQNLETSNSAGEIFFAIIICVSGLLLFAVLIGNVQKYLQSSTTRVDEMEEKRRDTEKWMSYRVIPEYLKERIRRFEDYKWRETKGTEEEALLRSLPKDLRLETKRYLYLDMLKRVPWLNIMDDGWLLEAVCDRVKSVFYLANSFIVREGHPVEEMLIVTRGKLKSTTGSHEMGVRNNCCDLQDGDICGELLFNGSRLPTSTRTVMTLTEVEGFILLPDDIKFIASHLNVFQRQKLQRTFRLYSQQWRSWAAFFIQAAWRKHCKRKLSKTRDNENIPQGTQLNLASTLYVSRFVSKALQNRRKDTADCSSSPDMSPPVPHKPADLEFAKAEA

>AtCNGC13

MAFGRNNRVRFRDWISEGTEYGYGRNKARPSLNTVLKNVRRGLKKPLSFGSHNKKRDSNSSTTTQKNIINPQGSFLQNWNKIFLFASVIALAIDPLFFYIPIVDGERHCLNLHRNLEIAASVLRTFIDAFYIIHIVFQFRTAYISPSSRVFGRGELVDDPKAIAIKYLSSYFIIDLLSILPLPQLVVLAVIPNVNKPVSLITKDYLITVIFTQYIPRILRIYPLYTEVTRTSGIVTETAWAGAAWNLSLYMLASHVFGALWYLISVEREDRCWREACEKIPEVCNFRFLYCDGNSSVRNDFLTTSCPFINPDDITNSTVFNFGIFTDALKSGIVESDDFWKKFFYCFWWGLRNLSALGQNLNTSKFVGEIIFAVSICISGLVLFALLIGNMQKYLESTTVREEEMRVRKRDAEQWMSHRMLPDDLRKRIRRYEQYKWQETRGVEEENLLRNLPKDLRRDIKRHFCLDLLKKVPLFEIMDEQLLDAVCDKLKPVLYTENSYAIREGDPVEEMLFVMRGKLMSATTNGGRTGFFNAVYLKPSDFCGEDLLTWALDPQSSSHFPISTRTVQALTEVEAFALAADDLKLVASQFRRLHSKQLQHTFRFYSVQWRTWGASFIQAAWRRHCRRKLARSLTEEEDRFRNAITKRERNAASSSSLVATLYASRFASNALRNLRTNNLPLLPPKPSEPDFSLRNP

>AtCNGC14

MIRFLILFFKHKLYFFFWLVDGCDRFYGDEKQTIEVGEKRVPLFKSTTAPFMKQEVLPKKSKTRLKIPRFGRFKVFPENFEIERDKILDPGGDAVLQWNRVFLFWCLVALYVDPLFFFLSSVKRIGRSSCMTTDLKLGIVITFFRTLADLFYVLHIVIKFRTAYVSRTSRVFGRGELVKDPKLIARRYLRSDFIVDLIACLPLPQIVSWFILPSIRSSHSDHTTNALVLIVLVQYIPRLYLIFPLSAEIIKATGVVTTTAWAGAAYNLLQYMLASHILGSAWYLLSIERQATCWKAECHKESVPLQCVTDFFDCGTLHRDDRNNWQNTTVVFSNCDPSNNIQFTFGIFADALTKNVVSSPFLEKYLYCLWFGLQNLSSYGQNLSTSTSVLETMFAILVAIFGLVLFALLIGNMQTYLQSITVRLEEWRLKRRDTEEWMGHRLLPQNLRERVRRFVQYKWLATRGVDEETILHSLPADLRRDIQRHLCLDLVRRVPLFAQMDDQLLDAICERLASSLSTQGNYIVREGDPVTEMLFIIRGKLESSTTNGGRTGFFNSITLRPGDFCGEELLAWALLPKSTVNLPSSTRTVRALEEVEAFALQAGDLKFVANQFRRLHSKKLQHTFRYYSHQWRTWAACFVQVAWRRYKRKKLAKSLSLAESFSSYDEEEAVAVAATEEMSHEGEAQSGAKARHHTSNVKPHFAATILASRFAKNTRRTAHKLKDVEIPMLPKPDEPDFSVDD

>AtCNGC15

MGYGNSRSVRFQEDQEVVHGGESGVKLKFKINGTQINNVKMMSKGKFLKAKVLSRVFSEDLERVKTKILDPRGQTIRRWNKIFLIACLVSLFVDPLFFFLPVMRNEACITIGVRLEVVLTLIRSLADAFYIAQILIRFRTAYIAPPSRVFGRGELVIDSRKIAWRYLHKSFWIHLVAALPLPQVLIWIIIPNLRGSPMTNTKNVLRFIIIFQYVPRMFLIFPLSRQIIKATGVVTETAWAGAAYNLMLYMLASHVLGACWYLLAVERQEACWRHACNIEKQICQYRFFECRRLEDPQRNSWFEWSNITTICKPASKFYEFGIFGDAVTSTVTSSKFINKYFYCLWWGLKNLSSLGQNLATSTYAGEILFAIIIATLGLVLFALLIGNMQTYLQSTTMRLEEWRIRRTDTEQWMHHRQLPPELRQAVRKYDQYKWLATRGVDEEALLISLPLDLRRDIKRHLCFDLVRRVPLFDQMDERMLDAICERLKPALCTEGTFLVREGDPVNEMLFIIRGHLDSYTTNGGRTGFFNSCLIGPGDFCGEELLTWALDPRPVVILPSSTRTVKAICEVEAFALKAEDLQFVASQFRRLHTKQLRHKFRFYSHQWRTWAACFIQAAWRRHRKRKYKTELRAKEEFHYRFEAATARLAVNGGKYTRSGSDSGMMSSIQKPVEPDFSSE

>AtCNGC16

MSNLHLYTSARFRNFPTTFSLRHHHNDPNNQRRRSIFSKLRDKTLDPGGDLITRWNHIFLITCLLALFLDPLYFYLPIVQAGTACMSIDVRFGIFVTCFRNLADLSFLIHILLKFKTAFVSKSSRVFGRGELVMDRREIAIRYLKSEFVIDLAATLPLPQIMIWFVIPNAGEFRYAAHQNHTLSLIVLIQYVPRFLVMLPLNRRIIKATGVAAKTAWSGAAYNLILYLLVSHVLGSVWYVLSIQRQHECWRRECIKEMNATHSPSCSLLFLDCGSLHDPGRQAWMRITRVLSNCDARNDDDQHFQFGMFGDAFTNDVTSSPFFDKYFYCLWWGLRNLSSYGQSLAASTLSSETIFSCFICVAGLVFFSHLIGNVQNYLQSTTARLDEWRVRRRDTEEWMRHRQLPDELQERVRRFVQYKWLTTRGVDEEAILRALPLDLRRQIQRHLCLALVRRVPFFAQMDDQLLDAICERLVPSLNTKDTYVIREGDPVNEMLFIIRGQMESSTTDGGRSGFFNSITLRPGDFCGEELLTWALVPNINHNLPLSTRTVRTLSEVEAFALRAEDLKFVANQFRRLHSKKLQHAFRYYSHQWRAWGTCFIQAAWRRYMKRKLAMELARQEEEDDYFYDDDGDYQFEEDMPESNNNNGDENSSNNQNLSATILASKFAANTKRGVLGNQRGSTRIDPDHPTLKMPKMFKPEDPGFF

>AtCNGC17

MELRKDKLLMFYSEGKESKEAKWAVNDPMSKSYKLSLPSALRPDNLLPGNRLRYTDASKSKSSKVSWYKTILDPGSEIVLKWNWVFIVSCMVALFIDPLYFFVPAIGGDKNYPCARTDTSLSILVTFFRTIADLFYLLHIFIKFRTGFIAPNSSTRVFGRGELVMDPKAIAWRYIKSDFIIDLIATLPLPQIVIWFVISTTKSYRFDHNNNAIALIVLLQYIPRFYLIIPLSSQIVKATGVVTKTAWAGAAYNLLLYMLASHVLGAAWYILSVDRYTSCWKSRCNGEAGQVNCQLYYLDCDSMYDNNQMTWANVTKVFKLCDARNGEFKYGIFGNAITKNVVSSQFFERYFYCLWWGLQQLSSYGQNLSTTMFMGETTFAVLIAIFGLVLFAHLIGNMQTYLQSLTVRLEEWRLKKRDTEEWMRHRQLPEELRNRVRRYEQYKWLATRGVDEEVLLQSLPTDLRRDIQRHLCLDLVRRVPFFSQMDDQLLDAICERLVSSLCTEGTYLVREGDLISEMLFIIRGRLESSTTNGGRTGFFNSIILRPGDFCGEELLSWALLPKSTLNLPSSTRTVRALVEVEAFALRAEDLKFVANQFRRLHSKKLQHTFRFYSHHWRTWAACFIQAAWRRYKRRVMENNLTAIESMENEEGEVGEELVVVEEEECVEESPRTKMNLGVMVLASRFAANTRRGVAAQRVKDVELPRFKKPEEPDFSAEHDD

>AtCNGC18

MNKIRSLRCLLPETITSASTAASNRGSDGSQFSVLWRHQILDPDSNIVTYWNHVFLITSILALFLDPFYFYVPYVGGPACLSIDISLAATVTFFRTVADIFHLLHIFMKFRTAFVARSSRVFGRGELVMDSREIAMRYLKTDFLIDVAAMLPLPQLVIWLVIPAATNGTANHANSTLALIVLVQYIPRSFIIFPLNQRIIKTTGFIAKTAWAGAAYNLLLYILASHVLGAMWYLSSIGRQFSCWSNVCKKDNALRVLDCLPSFLDCKSLEQPERQYWQNVTQVLSHCDATSSTTNFKFGMFAEAFTTQVATTDFVSKYLYCLWWGLRNLSSYGQNITTSVYLGETLFCITICIFGLILFTLLIGNMQSSLQSMSVRVEEWRVKRRDTEEWMRHRQLPPELQERVRRFVQYKWLATRGVDEESILHSLPTDLRREIQRHLCLSLVRRVPFFSQMDDQLLDAICGCLVSSLSTAGTYIFREGDPVNEMLFVIRGQIESSTTNGGRSGFFNSTTLRPGDFCGEELLTWALMPNSTLNLPSSTRSVRALSEVEAFALSAEDLKFVAHQFKRLQSKKLQHAFRYYSHQWRAWGACFVQSAWRRYKRRKLAKELSLHESSGYYYPDETGYNEEDEETREYYYGSDEEGGSMDNTNLGATILASKFAANTRRGTNQKASSSSTGKKDGSSTSLKMPQLFKPDEPDFSIDKEDV

>AtCNGC19

MAHTRTFTSRNRSVSLSNPSFSIDGFDNSTVTLGYTGPLRTQRIRPPLVQMSGPIHSTRRTEPLFSPSPQESPDSSSTVDVPPEDDFVFKNANLLRSGQLGMCNDPYCTTCPSYYNRQAAQLHTSRVSASRFRTVLYGDARGWAKRFASSVRRCLPGIMNPHSKFVQVWTRVLAFSSLVAIFIDPLFFFLLLIQQDNKCIAIDWRATKVLVSLRSITDLIFFINILLQFRLAYVAPESRIVGAGQLVDHPRKIARHYFRGKFLLDMFIVFPIPQIMILRIIPLHLGTRREESEKQILRATVLFQYIPKLYRLLPLLAGQTSTGFIFESAWANFVINLLTFMLAGHAVGSCWYLSALQRVKKCMLNAWNISADERRNLIDCARGSYASKSQRDLWRDNASVNACFQENGYTYGIYLKAVNLTNESSFFTRFSYSLYWGFQQISTLAGNLSPSYSVGEVFFTMGIIGLGLLLFARLIGNMHNFLQSLDRRRMEMMLRKRDVEQWMSHRRLPEDIRKRVREVERYTWAATRGVNEELLFENMPDDLQRDIRRHLFKFLKKVRIFSLMDESVLDSIRERLKQRTYIRSSTVLHHRGLVEKMVFIVRGEMESIGEDGSVLPLSEGDVCGEELLTWCLSSINPDGTRIKMPPKGLVSNRNVRCVTNVEAFSLSVADLEDVTSLFSRFLRSHRVQGAIRYESPYWRLRAAMQIQVAWRYRKRQLQRLNTAHSNSNR

>AtCNGC20

MASHNENDDIPMLPISDPSSRTRARAFTSRSRSVSLSNPTSSIEGFDTSTVVLGYTGPLRTQRRPPLVQMSGPLTSTRKHEPLFLPHPSSDSVGVSSQPERYPSFAALEHKNSSEDEFVLKHANLLRSGQLGMCNDPYCTTCPSYYNRKAAQIPTSRVSALFDSTFHNALYDDAKGWARRFASSVNRYLPGIMNPHAKEVQTWTKFFALSCLLAIFIDPLFFFLIKVQEQNKCIMIDWPMTKAFVAVRSVTDVIFTMNILLQFRLAYVARESTVVGAGQLVSHPKKIALHYLKGKFFLDLFIVMPLPQILILWIIPAHLGASGANYAKNLLRAAVLFQYIPKLYRLLPFLAGQTPTGFIFESAWANFVINLLTFMLAGHVVGSCWYLFGLQRVNQCLRNACGNFGRECQDLIDCGNGNSSVLVRATWKDNASANACFQEDGFPYGIYLKAVNLTNHSNLFTRYSYSLFWGFQQISTLAGNQVPSYFLGEVFFTMGIIGLGLLLFALLIGNMQNFLQALGKRNLEMTLRRRDVEQWMSHRRLPDGIRRRVREAERFNWAATRGVNEELLFENMPDDLQRDIRRHLFKFLKKVRIFSLMDEPILDAIRERLKQRTYIGSSTVLHRGGLVEKMVFIVRGEMESIGEDGSVLPLYEGDVCGEELLTWCLERSSVNPDGTRIRMPSKGLLSSRNVRCVTNVEAFSLSVADLEDVTSLFSRFLRSHRVQGAIRYDSPYWRLRAARQIQVAWRYRRRRLHRLCTPQSSYSL

>OsCNGC1

MTAKNILMVIVICQYVPRLIRIIPLYLQITRSAGIITETAWAGAAFNLLIYMLASHVLGALWYLLSIQREDTCWKDACSRHDGCDSGSLFCGSNAARNNSFLQDFCPTNGTDNADPTFGIYLPALQNVSQSTSFFEKLFYCFWWGLQNLSSLGQNLKTSTYTWENLFAVFVSTSGLVLFALLIGNVQTYLQSASVRIEEMRVKRRDTEQWMAHRLLPDNLKERILRHEQYRWQETRGVDEEGLLSNLPKNLRREIKRHLCLSLLMRVPMFENMDEKLLDAMCDRLKPMLYTEGSCIIREGDPVNEMLFIMRGNLESMTTNGGQTGFFNSNIIKGGDFCGEELLTWALDPTSASNLPSSTRTVKTLSEVEAFALRADDLKFVATQFRRLHSKQLQHTFRFYSQQWRTWAACFIQAAWHRYCRKKLEDTLFEKEKRLQAAIVSDGSSSLSLGAALYASRFAGNMMRILRRNATRKARLQERVPARLLQKPAEPNFFAEDQ\*

>OsCNGC2

MMMGREDKYVRFEDWRSEQSVMSPRRHNALSSLKERTAGVFAFLGNLVHSETLKRLVLHERKLTTRTLHPQGPFLQSWNKIFVLSCIFAVSVDPLFFYIPVINDNNTCWYLDKKLEITASVLRFFTDIFYILHIIFQFRTGYIASSLTTFGRGVLVEDRYAIAKRYLSTYFLIDVFAVLPLPQVVILVVLPNLGGSEVTKAKNILMFIVICQYVPRLIRIRPLYLQITRSAGVITETPWAGAVLNLLIYLLASHVLGALWYLLSIERKDACWRDMCSNNSTVCNQAYLYCGDKENSILRTACLPIDSNDIDPNFGIYVPALNNVSQSTNFLAKLFYCVWWGLQNLSSLGQNLKTSTYAWENLFAVFVSISGLVLFALLIGNVQTYLQSAHLREEEMRVKSRDTDQWMSYRLLPENLKERIRRHEKYRWHQTSGVDEELLLMNLPKDLRRAIKRHLCLSLLMRVPMFENMDDQLLNALCDRLKPVLYTEGSCIIREEDPVNEMLFIMRGNLMSMTTNGGRTGFFNSDVLKGGDFCGEELLTWALDPTSVSSLPSSTRTVKTMSEVEAFALRAEDLKFVATQFRRLHSKQLQHTFKFYSQHWRTWAACFIQAAWHRYCRKKIEDSLREKEKRLQFAIVNDGATTLSFRAAIYASRFAGNMMRILRRNATRKARLKESVPARLLQKPAEPNFAAEEQ\*

>OsCNGC3

MRVKSRDTDQWMSYRLLPENLKERIRRHEKYRWHQTSGVDEELLLMNLPKDLRRAIKRHLCLSLLMRVPMFENMDDPLLDALCDHLKPVLYTEGSCIIREEDPVYEMLFIMRGNLMSMTTDGGITGFFKSDVLKGGDFCGEELLTWALDPTSVSRLPSSTRTVETMSEVEAFALTAEDLKFVATQFRRLYRKQLRHTFRAPLNCSSEIVEEQENTLF\*

>OsCNGC4

MSYASGGGGGGELATKRSAFHIDYGGGVSLRRLAQPEALARGMITQGSAQLRTLGRSLRTGAAMAVVFQEDLKNTSRKIFDPQDRLLVRLNRSFVVSCIVSIAVDPVFFYAPQVTANGGNLCVGISRDLAISASVVRTVVDLFFAARIVLQFRTAYIAPSSRVFGRGELVIDTAQIAARYFRRFFAADLLSVLPLPQIVIWKFLHRSKGAAVLSTKDALLIIVFLQYIPRVVRIYPLSSELKRTSGAFAESAYAGAAYYLLWYMLASHIVGASWYLLSIERVSDCWKKACNEFPGCNKIYMYCGNDHQKGFLEWRTITRQYINETCEPRDGVMPFNYGIYTPAVRSDVIKSNDFTSKLLYCLWWGLANLSTLGQGLQTSIYTGEALFSIFLATFGLILMAMLIGNIQTYLQSMTVRLEEMRVKRRDSEQWMHHRLLPQELRERVRRYDAYKWVNTRGVDEEVLVANLPKDLRRDIKRHLC

LGLVRRVPLFANMDERLLDAICERLRPALYTERTFIIREGDPVDQMLFIIRGCLESITTDGGRSGFFNRSLLEESDFCGEELLTWALDPKAGLSLPSSTRTVRALSEVEAFALHSDELKFVAGQFRRMHSKQVQHTFRFYSQQWRTWAATYIQAAWRRHLKRRAAELRRREEEEEEAAAIRSSTGLKTTMLVSRFAANAMRGVHRQRSRRADEVLMMPMPKPSEPDFGADY\*

>OsCNGC5

MFGSCGGGYRTQTINGRKGTFVRLEQQEDQERQPAATYTMDGSGGGGRVQHVMDSYFSSAPKIRTRSVRMAAAGVMSIGGYRAERLKSIGRVFQEDLTNMSQKIFDPQDAFLVRMNRLFVMACIVSVAVDPLFFYLPAVTATDSNTCIGFDRGLATGATAVRSAIDLFYLARIALQFRTAYIAPSSRVFGRGELVIDPAAIARRYVRRFFVVDLLSVLPLPQIPIWNFLHRPKGADLLPTKNALLFIVLVQYIPRLVRFYPITSELKRTTGVFAETAFAGAAYYLLLYMLASHMVGAFWYLLSIERLDDCWRENCRVLKFHQCKKYMYCGGGNLGQSGFLEWRTMIRQVLVMECAPADEAGTGFQYGIFTTAIQSGVVSTTNLVAKVLFCLWWGLQNLSTVGQGLKTTHYKGEALFAIFLAVFGLILMALLIGNMQTYLQSMTLRLEEMRLRRRDSEQWMRHRVLPVDLQERVWRHDQYRWLETRGVDEDSLVRSLPKDLRRDVKRHLCLRLVRRVPLFANMDERLLDAICERLKPSLCTEATYILREGDPVDEMLFIIRGRLESSTTDGGRMGFFNRGLLKEGDFCGEELLTWALDPKAAANLPLSTRTVKAISEVEAFALHADELKFVAGQFRRLHSKQLQQTFRFYSQQWRTWASCFIQAAWRRHLKRRAAEQRRREEEEEEEAASASSSCQITTTVLVSRFAKNAMRGAQRQRSRRDANLIVLPKPPEPDFQTMEY\*

>OsCNGC6

MFDSAHKAQYIDGQREMFKRLDESSPRSSVPSEVGGRSTLKFSMPSFGYDSFNPVRSFLSGVRKGSGRLKSLRQSLTSGAPKTAFAEDLKSFKKTIFDPQEKFLFQMNWFCFLSCVFAVAVDPLFFFLPIIDGDDKSSCIGIDKKLAVTSTIIRTILDLVYLIRVFLQFRTAYVAPSSRVFGTGELVIDPMRIAIRYLKSYFVMDFFALLPLPQIVVWRYLHTLDGPDVPSTKNALVWVVLFQYIPRLLRIFPVTKDLKRTAGVFIETAWLGAAYYLLWFMLAGHNVGTLWYFLTIEREDSCWRSNCHSNDGCNKSYLYCSDNHTGNYTSWLSKRTELLSACSTNSFQFGIFEQALVSGILRPGNFISKICYCFWWGLQNLSTLGQGLQTSIYPGEVLFSIAICVIGLILFALLIGNMQTYLQSVAIRLEEMRVKKRDAEQWMHHRSLPPQIRERVRRYERYRWLETRGVDEENLVQTLPKDLRRDIKRHLCLGLVKRVPLFENMDERLLDAICERLRPTLYTENEYILREGDPVDEMHFILHGCLESETTDGGRSGFFNKVQLKEGAFCGDELLTWALDPKSAANFPASTRTVKALTEVEAFALCAEELKFVASQFRRLHSRQVQHTFRFYSQHWRTWAACFIQAAWRRYYKRKMAEQHRKEEEAANRQSSSSHHPSLAATIYASRFAANALRGVHRLRSRASPTIVRLPKPPEPDFAVDEAD\*

>OsCNGC7

MACNGSRAVRFQNDMELPHWKTSSVPECTSSSRSTKHGKAQHQQQQHHDPRKWRRGGGGGGSLKDRVLSRAFSEELESLMSSGANHLFFDPRGQLIHLWSKIFLAACLASLFVDPLFLYLTGTRQNMCIELKYSLAFTLSMIRSLLDLFYAAHIFFRFRTAFIAPSSRVFGRGELVIQPCKIARRYLAGTFWFDLVTALPLPQFVIWIVIPKLKESATANRKNILRFSIIFQYLPRLFQIFPLSRQIVMATGVMTETAWAGAAYNLILYMLASHVLGALWYLFSVQRQEACWREACHVEGPSCQTLFFDCKTVSSNRTMWYELSNITSLCTPSNGFYQFGIYGEALDNGLTSSSFTQKYFYCFWWGLKNLSCLGQNLSTSLFIGEITFATVIGVLGLVLFALLIGNMQATMVRLEEWRTKRTDMERWMNHRQIPQPLKQCVRRYHQYKWLATRGVDEEALLEDLPMDIRRDIKRHLCLDLVRRVPLFDEMDERMLEAICERLRPALYTRGTRLVRELDPVDSMLFIIRGYLDSYTTQGGRSGFFNSCRIGAGEFCGEELLPWALDPRPAASLPLSTRTVRAVSEVEAFALVADDLRFVASQFRRLHSARIRHRFRFYSHQWRTWAACFIQAAWRRNKRRRASMELRMREGGEARPGGSVRCRRHSCDGKALIKKPMEPDFTVEEED\*

>OsCNGC8

MDMQIGVGVTAVRTVADLFYLAHMILKFRTAFVAPSSRVFGRGELVRDPDQIAIRYLKNDFIIDLAAMLPIPQVIIWFVIPAVNNSSANHTNNTLSMIVLIQYIPRVFLIVSLNSKIVKSSGVVTRTAWAGAAYNLLLYTLASHVLGALWYLLSIERQYTCWMDVCTRENGTNPAIPKCYMSYLDCKTLEDPIRMDWHSRSEIDHQCLLPEATYVYGLFADALNLDVAKVNFWDKYLYCLWWGFRNLSSYGQNLENSTYRGETIFCILICIMGLVFFSHLIGNMQTYLQSMTVRLEEWRVKRRDIEEWMRHRQLPLELQERVRRFFQYKWLATRGVDEESILQSLPLDLRREIQRHLCLALVRRVPFFSQMDEQLLDAICERLVSSLSTKDAYIVREGDPVSEMLFVIRGELESSTTDGGRTNFFSSITLRPGDFCGEELLTWALMPNPSLNFPQSTRTVRSVTEVEAFALRAEDLKYVANQFKRLHSKRLQHAFRYYSHQWRSWGACFVQGAWRRYKKRKLARELSKQEELYYMQGQGGDDGDGHDDSDSAPLLGAGVGAGGDHRDGAAAGAAHLGATFLASKFAKNTKKSAAAHHGKARMEDVSSIKFPKLAKPDEPDFSLSSDDVL\*

>OsCNGC9

MFGSRVQDEVEMQRRTTNRIFPDERQDQFKLPFQAARADRFGVNRIDAKTTEKIKVISEGNIPWHRRILDPGSSMVLMWNRVFLGSCLFALFIDPFFYYLPLVHVLDESTNRSCIAKDRRLSITITVLRTFADLFYMLNIMVKFHTAYVDPKSRVLGKGELVLDLKKIQRRYLRTDFFIDLLATIPLPQVTVWIIMPSIKNSDYNIRNTTFALVIMIQYIFRMYLIVPLSNQIIKAAGVVAKSAWLGAAYNLLYYMLASHITGAIYYLLSIERQITCWNQQCLNESCSFNFISCDNTGSSSYLTWGKNTSIFDNCDPNRNSSANPPPFNYGMFSTALSKGAVSAPFLEKYFFCLWWGLLQLSSSGNPLQTSAYIAENTFAIAIGALSLVLFAQLIGNMQTYLQSISKRLEEWRLRQRDMEEWMRHHQLPDELQDRVRRFVQVKWLATRGVEEESILQALPADIRRDVQRHLCLDLVRRVPFFSEMDYQLLDAICERLVSFLCPERTYISREGDPVNEMLFVIRGKLESSTTNGGRSNFFNSIILRPGDFAGEELLTWALLPKTNVHFPLSTRTVQSLTEVEAFALRAEDLKFVANQFRRLHSKKLQHTFRFYSHHWRTWAACFIQAAWRQHQRRKLAESLSRWESYSWWPEEHPPADKPKQEGTSSSTKTIAESAIAQMHKFASASRRFRADDTAIRRLQKPDEPDFSADHFD\*

>OsCNGC10

MFGAGKVDDEMALKRQRTVRFYDEKAKPTIPTHQKQAGFAASKLGVASSGKNKIFVPGEELWYKRILDPSSDFILTWNHIFLFSCFVALFIDPLYFYVPKISYGTPNSCIGTDRHLAITVTFFRSISDLLYFTHIIIKFRTAYINPSSTMRVFGRGDLITDPKEIAWQYLRSDFVVDAVAALPLPQILIWFVIPAIKYSTDEHNNNILVLIVLAQYFPRLYLIFPLTYEIVKTTGVVAKTAWQGAAYNMLLYMIASHVLGALWYLLSVDRQTACWKSNCKNETGCDIKFLDCDVIPNQNWASKTAIFNTCDATNTSISFDYGMFQPALFNQAPGQRFLMKYFYSLWWGLQNLSCYGQTITVSTYIGETLYCIFLAVLGLVLFAHLIGNVQTYLQSITVRVEEWRLKQRDTEEWMRHRQLPHELRERVRRFIQYKWLATRGVNEESILQALPADLRRDIKRHLCLGLVRRVPFFSQMDNQLLDAICERLVSSLCTQGTYIVREGDPVTEMLFIIRGKLESSTTNGGRTGFFNSTTLKSGDFCGEELLGWALVPKPTVNLPSSTRTVKALIEVEAFALQAEDLKFVANQFRRLHSKRLQHTFRYYSHHWRTWASCFIQAAWRRYKRRKMARDLSMRESFCSMRSDDSNGEDDSPPKQNLAMKIMSGSRKGPQNMKELPKLRKPDEPDFSAEPCE\*

>OsCNGC11

MFGSRRVKDEMELRKQRTVRFHEERAKPTIPTHQKQAGLATSKLGLGISEKNKIFLAGNELWYKKIIDPSSDFILTWNYVLRIACFVALFMDPLYFYVPKIYYGTPNSCIGRDTRLAIIVTVFRSITDLFYVLQIIIKFRTAYINPSSTLGVFSRGDLVTDPGNIAKHYLRSSFVVDLVASLPLPQIIIWSVIPSVKYSLSEHDDDILLLIALFQYVLRLYLVFSLNSKIVEVTGAFSKTAWQGAAYNLLLYMIASHVLGALWYLLSVDRQTACWEKYCSKEAGCQNRYLACDIQSDSNWKISTAIFNKCDATNKTIDFDFGMFTPLLSNQAPDQGFLKKFFYCLWWGLQNLSCYGQTLTVSTYIGETLYAIFLAVLGLVLFAHLIGNVQTYLQSITARVEEWRIKQRDTEEWMRHRQLPQKLRERVRRFVHYKWLATRGVDEESILKALPADLRRDIKRHLCLDLVCRVPFFSQMDGQLLDAICERLVSSLSTVGTYIVREGDPVTEMLFIIRGKLESSTTDGGRTGFFNSITLKTGDFCGEELLGWALVPKPTVNLPSSTRTVKTIVEVEAFALRAEDLKFVASQFRRLHSRKLQHTFRYYSHHWRTWAACFIQAAWRRYKRRRLAKDLSIRESFFSRRSFEDDGSPEHSLVLNAVRKGAHIIKELPKFRKPSEPDFSAEHDD\*

>OsCNGC12

MSDQERDDIPMLLRNVELPTFPPRSTSMCIPVRDDEYEEDTFVPHTGPLFVQPPTQTAAAGIPFTNTPDMPPRPPQGKQVNKPHAIMPEEIGGNRWSYSGNVPKNEHLMMSGPLGQCDDPDCVNCPPACKNKRHFHRGSSTLDSKFHNFLCEHGGGWKKEIERFLSRIPVMNPHAKVVQQWNQFFVISCLVAIFIDPLFFFLLSVQKDNKCIVLNWHFATALAVVRSVTDAIYFLHMLLQFRLAYVAPESRVVGAGDLVDEPKKIAVRYLRGYFLLDFFVVLPLPQVMILLVIPKYVGLSTANYAKNLLRITVLLQYVPRIIRFVPLLGGQSDSSANGFIFESAWANFVINLLMFVLAGHVVGSCWYLFGLQRVNQCLRNACSASKIPSCDGFIDCGRGINIGKQNQLSRQQWFNDSASTACFDTGDNGFHYGIYEQAVLLTTEDNAVKRYIYSLFWGFQQISTLAGNLVPSYFAWEVLFTMAIIGLGLLLFALLIGNMQNFLQALGRRRLEMQLRRRDVEQWMSHRRLPEDLRRRVRRA

ERFTWAATQGVNEEELLSNLPEDIQRDIRRHFFRFLNKVRLFTLMDWPILDAICDKLRQNLYISGSDILYQGGPVEKMVFIVRGKLESISADGSKAPLHEGDVCGEELLTWYLEHSSANRDGGRMRFHGMRLVAIRTVRCLTNVEAFVLRASDLEEVTSQFSRFLRNPRVQGAIRYESPYWRTIAATRIQVAWRYRNRRLKRAGMSKLNDQSYNSALERGARECDARQHGRV\*

>OsCNGC13

MSGQERDDVPMLELQRFPTRSVSMCIPVRDDIYEDSIISHSGPIFTPAPTQYTSVAIPSGNRDMLDKLPRPKVKSKPHVVTPEEVGISNWPYDQHVPKNKHLMMYSEPLGLCDNPDCVDCPRACKNKRHFQRSLAPFDNKFHNILYGYGDRWKKKAGHYLSYIPIMKPHDKAVHRWNQFFVISCLLAIFNDPLFFFLLSVDKDYKCIVFNWNFAIALAVGRSVTDAIYFLHMLLQFRLAYVAPESRVVGTGDLVDEPMKIAMRYLRGFFVLDLFVVLPLPQVMILLVIPKYVGLSSANYAKNLLRATVLLQYVPRIIRFVPLLGGQSTNGFIFESAWSTFVINLLMFVLAGHVVGSCWYLFGLQRVNQCLRDSCAASNISKALCNNCTDCGITGINRTNWLNNSDLTGCFDTKSGNFPYGIYQQAVLLTTEPGLKRYIYSLFWGFQQISTLAGNLIPSYFVWEVIFTMAIIGLGLLLFALLIGSMQNFLQALGKRRLEMQLRRRDVEQWMSHRRLPEDLRRRVRSAERFSWVATRGVNEEELLSNLPEDIQRGIRRHFFGFLKKVRLFNLMDNATWDAICDKLRQNLYITGSDILYQGGPVEKMVFIVRGRLESISADGNKSPLQEGDVCGEELLSWYLEQSSVNRDGGKIKLHGMRLVAIRTVRCLTNVEAFVLRARDLEEVTSQFSRFLRNPLVLGTIRYESPYWKNLAANRIQVAWRYRKRRLKRAEMQRLQ\*

>OsCNGC14

MPSLSFLRFLSGRSLADVCDGVKRRLGLGDDEGRDEEAGLAGGSSRPAAAAAVAGPPGECYACTQPGVPSFHSTTCDQVHSPDWDADAGSSLVPVQAQPSAAHHAAAAAARWVFGPVLDPRSKRVQRWNRWILLARAAALAVDPLFFYALSIGRAGQPCVYMDAGLAAAVTALRTAADLAHLAHVLLQFRVAYVSRESLVVGCGKLVWDPRAIAAHYARSLKGLWFDLFVILPIPQVIFWLVIPKLIREEQIKLIMTMLLLLFLLQFLPKVYHSIYIMRKMQKVTGYIFGTIWWGFGLNLFAYFIASHIAGGCWYVLAIQRVASCLQEECKIKNTCNLTSLACSKEMCFHLPWSDKNGLACNLTSFGQQNIPDCLSGNGPFAYGIYKGALPVISSNSLAVKILYPIFWGLMTLSTFGNDLEPTSNWLEVIFSIINVLSGLMLFTLLIGNIQVFLHAVLARKRKMQLRFRDMEWWMRRRQLPSRLRQRVRKYERERWAAITGDEEMEMIKDLPEGLRRDIKRYLCLELVKQVPLFHGMDDLILDNICDRLRPLVFSSGEKVIREGDPVQRMVFVLQGKLRSTQPLAKGVVATCMLGAGNFLGDELLSWCLRRPSLDRLPASSATFECVETAQAFCLDAPDLRFITEQFRYKFANEKLKRTARYYSSNWRTWAAVNIQLAWRRYKARTTTDLASAAQPPSAGGPDDGDRRLRHYAAMFMSLRPHDHLE\*

>OsCNGC15

MASSSAAAASSAHGVGVVQRLWLEEQERKPPPKRGGGKRRWAWAPLEPRRAGWWAREWDRAYLLACAAGLMVDPLFLYAVSVSGPLMCVFLDGWFAAAVTVLRCTVDAMHAWNLLMRLRAAVRPPEEDDGADEEVAAERGAGGNGGGPAPAQVARPVSRKGLMLDMFVILPVMQVIVWVAAPAMIRAGSTTAVMTVLLVSFLFEYLPKIYHAVRLLRRMQNTYVFGTIWWGIALNLMAYFVAAHAVGACWYLLGAQRATKCLKEQCAQGGSGCAPGALACAAPLYYGGAVGGVGADRLAWALDASARGTCLDSGDNYQYGAYKWTVMLVANPSRLEKILLPIFWGLMTLSTFGNLASTTEWLEIVFNIITITGGLILVTMLIGNIKVFLNAATSKKQAMQTRLRGVEWWMKRKKLPQSFRHRVRQHERQRWAATRGVDECRIVRDLPEGLRRDIKYHLCLDLVRQVPLFQHMDDLVLENICDRVKSLVFPKGEIIVREGDPVQRMLFIVRGHLQSSQVLRTGATSCCTLGPGNFSGDELLSWCMRRPFLERLPASSSTLVTMESTEAFGLEAADVKYVTQHFRYTFTNDRVRRSARYYSHGWRTWAAVAVQLAWRRYKHRKTLASLSFIRPRRPLSRCSSLGEEKLRLYTAILTSPKPNPNQDDLV\*

>OsCNGC16

MSGELSTRASTSSSSSSPPGDARGPEHGGTPRGEVSSKRRLVLRRRQRWRRLGGGAAASWAAADPRARWVREWNRAYLLACAAGLMVDPLFLYAVSLSGPLMCVFLDGWLAAAVTALRCMVDAMHAWNIVTQLRVSRAGRERACAAGPDEEQPEAEAAAPAPAADADAAASNKLRDHGRYRKWLVLDFFVILPVMQVVVWVAAPAMIRAGSTTAVMTVMLVAFMLEYLPKIYHSVVFLRRMQNQSGHIFGTIWWGIALNLIAYFVAAHAVGACWYLLGVQRATKCLKEQCLLAGLPACASSTAAVACVDPLYYGAAVASVGGDRLAWGGNATARNVCLSSGDNYQYGAYKWTVMLVSNPSRLEKMLLPIFWGLMTLSTFGNLESTTEWVEIVFNIMTITGGLILVTMLIGNIKVFLNATTSKKQAMQTRLRGLEWWMEHKGVPHGFRQRVRQFERQRWAATRGVDECQIVRDLPEGLRRDIKYHLCLDLVRQVPLFHHMDDLVLENICDRVKSLIFPKGEIIVREGDPVQRMLFIVRGHLQCSQVMRNGATSWCTLGPGNFSGDELLSWCMRRPFMERLPASSSTLVTAESTEAFGLEAGDVKYVTQHFRYTFTSDKVRRSARYYSHGWRTWAAVAVQLAWRRYKHRKTLASLSFIRPRRPLSRCSSLGEEKLRLYTAILTSPKPNQDDDF\*

>ZmCNGC1 GRMZM2G148118

MAGREERYVRFHDWKSEQSVSVISDRVVSEKGHNIFGLLKDRTAGAFSFLGNSSHSEALNKLGLGEKSKTKVLDPQGPFLQRWNKIFVISCLFAVFVDPLFLYVPVIDGGNNCLYLDKKLETTASILRFFTDIFYLLHILFQFRTGFIAPSSRVFGRGALVKDTFAIAKRYLSTLFLVDFLAVLPLPQVFVLVVLPKLQGPEVMKAKIVLLVIIICQYVPRLLRIIPLYLQITRSAGILTETAWAGAAFNLIIYMLASHGFGALWYILSIQREDTCWRQACINQTGCDPTSLYCGYHSLANNSFLQNACPTNSTANPDPIFGIFLPALQNVSQSTSFFEKLFYCFWWGLQNLSSLGQNMKTSTNTLENLFAVFVSTSGLVLFALLIGNVQTYLQSASVRIEEMRVKRRDTEQWMAHRLLPENLKDRIMRHEQYRWQETRGVDEEGLLKNLPKDLRREIKRHLCLSLLMKVPMFENMDEQLLDAMCDRLKPMLYTEGSCIIREGDPVNEMLFIMRGTLESTTTNGGQTGFFNSNVLKGGDFCGEELLTWALDPTSASNLPGSTRTVKTLSEVEAFALRADDLKFVATQFRRLHSKQLQHTFRFYSQQWRTWAACFIQAAWHRYCRKKLEEALYEKEKRLQAAIVSDGTTSLSLGAALYASRFAGNMMRILRRNATRKARLQERVPARLLQKPAEPNFFAEDS

>ZmCNGC2 GRMZM2G129375

MLDERKSTTGTLHPQGPFLQKWNRIFVISCIFAVSVDPLFLYIPVINDEKPCWYLDRKLEKAASVLRFFTDIFYILHIIFQFRTGFIASSHTTFGRSVLIEDRYAITKRYLSTYFFIDVFAILPIPQVIILVVLPNLHGSKVMKAKNVLMLIIICQYVPRLIRIRPLYLQITRSAGVITETARAGAAFNLLLYMLASHVLGALWYLLSIQRQDSCWRQYCRGNSTCDPAYLYCGDYDKDGKNAFLTTNCLLSNQSNLPDPYFGIYAPAIKNVSRSKSFFAKLFFCVWWGLQNLSSLGQNLKTSTYTWENLFAVFVSISGLVLFALLIGNVQTYLQSASLRVEEMRVKSRDTDQWMSYRHLPENLKERIRRYEQYRWQETSGVDEEQLLMNLPKDLRRDIKRHLCLKLLMRVPLFENMDEQLLDAMCDCLKPILYTEGSCVIREGDPVNEMLFVMRGNLMSMTTNGGRTGFFNSDVLKAGDFCGEELLTWALDPTSTSSLPSSTRTVKTMSEVEAFALRAEDLRFVATQFRRLHSKQLQHTFRFYSQQWRTWAACFIQAAWHRYCRKKIEDSLREKEKRLQFAIANDSSTSLSFMAALYASRFAGNMIRILRRNATRKARLQERVPARLLQKPAEPNFSAEEQ

>ZmCNGC3 GRMZM2G066269

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>ZmCNGC4 GRMZM2G023037

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>ZmCNGC5 GRMZM2G077828

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>ZmCNGC6 GRMZM2G005791

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>ZmCNGC7 GRMZM2G068904

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>ZmCNGC8 GRMZM2G135651

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>ZmCNGC9 GRMZM2G141642

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>ZmCNGC11 GRMZM2G074317

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>ZmCNGC12 GRMZM2G090528

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