Supplemental file 1

>c101434\_g1

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>c102732\_g1

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>c102910\_g1

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>c104257\_g1

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>c13883\_g1

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>c18429\_g1

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>c2160\_g1

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>c23232\_g1

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>c24425\_g1

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>c25843\_g1

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>c29932\_g1

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>c34382\_g1

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>c39134\_g1

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>c40437\_g1

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>c4463\_g1

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>c44883\_g1

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>c47924\_g1

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>c50142\_g1

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>c50160\_g1

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>c50664\_g1

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>c51225\_g1

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>c51808\_g1

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>c52210\_g1

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>c52712\_g1

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>c5430\_g1

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>c55095\_g1

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>c55095\_g2

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>c55164\_g1

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>c55969\_g1

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>c56536\_g1

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>c56637\_g1

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>c56908\_g1

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>c57014\_g1

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> MK515142

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>c59080\_g1

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>c59195\_g1

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>c59365\_g1

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>c59390\_g1

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>c59451\_g1

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>c59461\_g1

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>c60007\_g1

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>c60929\_g1

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>c61362\_g1

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>c61425\_g1

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>c61875\_g1

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>c61937\_g1

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>c62166\_g2

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>c6228\_g1

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>c62438\_g1

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>c62646\_g1

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>c63483\_g1

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>c63664\_g1

MFLNLLALSIVLLLAFLKYRHGYWKRRGVPHEAPHFPLGDFKEWRATKCFFEILAPIYKKFKDSAPFAGMFMAFRPVALILDPDLVKSILIKDFNHFRERGVFSNVRDDPLTGHLFALEGTKWRELRQKLSAAFSSGKMKHMHPVVVKVAEEFKKVLEEKQATAVGGVIEITDLLSRFTADIIGVCAFGIECNSLRNPQADFVVMGRKANIDRRHGFLLDTFMEAAPKLARTLRMRQTTQEVNDFYMGIVRETIEYRERTGVKRNDLMDTLLELKTKDGNDGGLTVNEIAAQAFVFLIAGFETSSTTMGYVLYELAKWQDIQNRLRAEINTVLERHKNQFTYEAMQDMRYTEQVLSETLRRYPIVGHLVREADIDYKTADPRFTIEKGTMVIIPVYELQHDPHYFPNPEKFDPERFSEAEIKSRPACTYLPFGDGPRNCIGLRFGKMQVCIGLTYLLRHFKFSVCEETEDHLNFQVEKIILQPINGIKLRVERL\*

>c63685\_g1

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>c63928\_g1

MRNKLSPTFTSGKMKYMFPTVCRVGEEFVHVVAEAIEKEPILEVPDYMARFTTDVIGTCAFGIEVNSLKNPNDEFRRMGKRVFTDLRHGKIGLALLNSFPKLCRRLHIKNTPDHITDFYMGLVRENIAYREKNNIRCNDFFDMLLELKNNKLLKSEDGQDMSISVEELAAQAFVFLVAGFETSSTTMSFALYELAQHEDIQQRVRDEVIEVLEKHKGEFTYECMKEMVYLDQVISEILRLYTVLPVLNRECMEEYPVPGNPKFVIAKGMQVLIPSAAYHRDADIYPNPDTFDPDNFTPEKVAQRDGVEWLPFGDGPRNCIGMRFGQMQARIGLALLLKNFKFSVCEKTPIPMTYDKKNFLVHSEHPICLYVEKV\*

>c63966\_g1

MSLEVLKDHVLISPSSVFYFLLLPTFLLWLTYWRLSRRHLYKLADRLPGPKGLPIIGHLLDVFGPASSVFKTVIRKSSEFENIAKMWIGPQLVVFIYDPRDVEILLSSQVYIDKSSEYKFFKPWLGEGLLISTGAKWRAHRKLIAPTFHLNVLKSFIDLFNENSQLVVRKLRAEGGKTFDCHDYMSEATVEILLETAMGVSKKTQDKSGYEYALAVMKMCDILHLRSRSILLRNEFIFTLSRYYHEQGKLLNIIHGLTTKVIKHKKAAFANGTRGSLAQQEATAKKITPPPTPKAATKEEDLKNTKETSVEGLSFGQAEGLKDDLDVEENDVGEKKRLAFLDLLLESAQNGALLNDTEIKEQVDTIMFEGHDTTAAGSSFFLSLMGIHQGIQDRVIAELDEIFGDSDRPATFQDTLEMKYMERCLMETLRMYPPVPLIARELREDLKLASGPYVIPRGATVTVATVKLHRNPKVYENPNIFNPDNFLPERQANRHYYAFVPFSAGPRSCVGRKYAMLKLKILLSTILRNYRVYSDLTEADFKLQADIILKREEGFRVRLQPRQPKPKSI\*

>c64256\_g1

MSYVVLSFALVVVALVLLYLHNHYSYWARRGIPQEDPIYGLGNMKGIGREFHFRDINSRLYKRYKRDGAPIGGIYMFFLRSAFIVDLDLIKHVLIKDFSSFHDRGAFNNVRDEPLSGHLLTLEGEEWRSLRNKLTPVFSSGKMKFMFPTVVAVAENLSRTCGQLAPEFEVKELSARYTTDVIGTCAFGIECNSLSDPNAAFRSYGRSIFEKPRHSQLVQALIIFNPKLAKKLRFKVLNDEVSEFFIDAVRNTVEYRIKNKVKRNDFMDMLIDMMAEDQETASKHEGIDLSQGLTLLQMAAQAFVFFIAGFHTSSTTMSFCLYELAMNPEIQNKLREEIVNVLSAHKNEVTYEALKEMSYLEQVVNETLRKYTVLAQLVRTVTSDYRVPNSSLILEKGTSVVIPVDAIHHDPEIYPEPDRFDPTRFDKENVEKRHSCAFLPFGDGPRSCIGLRFGKMQTKVGLVHLLRDYKFSRSARTEDPIKLSKRNIIIEAENGIYLRVERV\*

>c64316\_g1

MSMTAILLTLILALFVALCIFMHRRLNYWRKLGVAHDKPNWLLGNLAGIHHTVSYADISRNIYLKYKGTGPFCGFYFFLRPAVVLLDVDLIKNVLITDFANFADRGMFNNERDDPLTGHLFLLDGHKWRSLRGKLSPTFSSGKMKFMFPTIVEVTHNLVEVLGEQLREEKVVELKEILARYTTDIIGKVAFGIACNSLRDPDAEFRVMGRRSFSEERHGPLVSGFLHSFPNLARRLRMRSINDDISDFFMRIVRETVEYREKNNIKCNDFMSILIDLRNDKKLRGENGEEKCLSMAEMAAQTFVFFIAAFETSSTTMSFALYELALQPELQERLRREVQVTFAKHNNEFTYECLQAMRYMDQVVAETLRKYTVVPHLNRQALSDYQVPGHPNYVIKKGMSIIVPSVGIHYDPDIYPNPDHWDPERFTPEKRQQRETVEWLPFGEGPRNCIGQRFGHMQIRIGLAHLLQKYRFSICNKTEIPLKMNVKSFLVNTLNGIYLRVEELEAMN\*

>c64373\_g1

MLTRYLKQSNEAFGLGATFLRRYATALPQQQLNETVSAPVHLENARPFKELPGPSRYEIVRGFMLGGEFYKKTFTEAVMQLSEKYGTLFHFPALFGKPEMVLALNPADYPTIFRNEGVWPDRRPLDSFAYHREV\*

>c64373\_g2

MTTSGEDWAKIRTATNPVLMQPRNARLYLNTILEINDEFLERIRHIRDPVTNEMPDDFHDDLNRLTLEGIVGVALNTRLGMIHKNRDSPECKQLLQSIRDFFDLSEDLEVKPSIWKIVKTPKFYKLMKTLDLLADLCNKYIDEALKQIEMDRDGKFTSEVGKENSVLEKLLRIDRRIAVVMALDMMMAGVDTTSSTLTGILFCIAKNPDKQQKLFEELKNILPNKDSRLTIENMQNLPYLRACIKEGIRYHPIILGTLRSLPTDVVLSGYRIPAGIDIMISSNLLLRNEEFVKEPNKFVPERWLRNDTEGKKYHIDNPFVYLPFGFGPRSCVGKRIVDLELEITLTRLVRNFVIEFNYSTENAFIPKLVSQPCIPLKFKFEERNE\*

>c64485\_g1

MLSRHLIKYDAIVGYTLRSTALRGYATAVEQTQINETASATNEWENARPYSEMPGPSKFEMIRGFLPGGAFYKKTFVEGMTDMAKKYGNVYRFPALFGRPEMVLDLNPNDYPIIFRNEGIWPERRSFEAFIYHRKVHREDYFRGVRGLLTTTGEEWAKMRTAVNPVLMQPKNAKLYLNTLLEVNDEFLERIRHIRDPLTLEVPDDFLDDINRLTLEGVVGIALNTRLGMIHKNRDNPDSKIFLKEIRNFFDLTEEVEIKPSIWKIIKTPKFRQLMKNLDTLTALCNKYIDEALKRIDLDSEGKFTSEVGKEKSVLEKLLKIDRKIAVVMAMDMMMAGVDTTSSTLTGILFCIAKNPDKQQKLFEELKSILPNKDSRLTIENMNNLPYLRACIKEGMRYHPILAGTMRRLPNDVVLSGYRIPAGIDVSVSSNLLLRNEKFVEEPNKYIPERWLRNNTEGKKYQLNNPFLFLPFGFGPRSCVGKRIVDLELEVTLARLVRNFAIEFNYSTDNAFVPKMVFIPAIPLKFRFEERKE\*

>c64643\_g1

MLTLLLFLLIIVGIYAYWSYVQYKTGWHLLKKIPGPFVYWIFGNVPQIGLRPEEHMKQIRRWAHDYNYGLVRVYGGAQPYLMITNPKTTEQVLSSTDFIYKYDPYKFFYPWLGQGLLTANGKHWVNHRKMITPSFHFAILQDFLKIMNETTDRFVELLSGFAAKMEMFDFQEVVTRSTIDVICEAAMGTPVNAIQGPTSPIVPAIADICDVMRQRIFSALNRFDFFFVWTSGYQKQQKALAILRKEFSQIIDKRREMLKTLNQNKLKLDVDGKRPKMAFLDNLLTAEVDGKPLTFQDIFEEVSTFMFEGHDTTASAIGFAIYCLSRHPEVQRRAFQEQFAIFGKDLKRNPTFQEVSDMKYLELIIKETLRLFPSVPFIVRTLLQQTEIGGFQIPAGTSLGFCIIAMGTNPQHFPTPFEFKPERFENRNSTNPYDYIPFSAGPRNCIGQKFAMMELKVTLSKIIRHFNILPAVDGLSKGIHNPADRGDKIDNPYDARLGFFLTLKSVNGLYIRLRPRAY\*

>c64654\_g1

MCAYNPIRVSLCNRVIGVTANSWLNIRNHAHKCTAADAITHAPSDKSADAATEWQQARPFNELPRAGVFKFLRQLLPGGRYYKLDSAQLLKAMQEDYGDIYIMPGMFGRPDALYTHNPADFERVFRNEGVWPIRPNSVTLRYHRNKLRADFYGDVEGILATNGEQWSSFRTVVNPLLMQPKNIKIYLNKMAEVNQEFVERIRLIRDTKTLEMPDDFKENIQHWTLESVALVALDKQLGLLGENSKNLDDASKLFAALTDWMYLTLDLEYTPSLWRIVATPKFKRLMRALDDIQDVTSKYTMEAIAKLEEEQQRGIEREENEKSILEKLLKIDRKIATVMAMDLLLGGVDTTTSLTVGILLCLAKNPDKQEKLRVEVKRILPQKNGDFAADTLNKIPYLRACLKEALRMYPVTIGNCRVPQKDVVLSGYRVPKGTVISMIHSTLIKSEEHYARPLEYLPERWLRPSSETVEEPGCAAVEDTKQWKASSPFAFLPFGVGPRACLGRRISDLEIELGVARLVRNFQIEFHYPTDNVFKNMLINMPNAPLKFKFIDIE\*

>c64666\_g1

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>c64947\_g1

MGIAILYTLVVVVVGALYWKLRHHYNYWARRGVPHETPQYFLGNMSGLGSKYHWKDINIRFYNRFRGQTPIFGAYTFLKRVAYIIDFDLIKQILVKDFNYFTDRGLFHNVRDDPLTGNLLFLDGEPWRVLRHKLSPAFTTGKIRFMFPTMVTVGERVVGACQRIMNIGGTVEMKELCARYTTDVIGEVAFGIECNSLKDPQAIFRRMGRNIVEKPRHSLLVQAFMFTDPQRARQLRLKNFTDDVTEFFMGVVRETVAYREKNGVKRNDFMDMMLEMKAQRDRLKDGDIKEDDLTNGLNIEQVAAQALVFYLAGFETSSTVMSFCLYELAMNPEVQEKLREEIFSVLQKSEDQVTYDSIKEMTYLKKVISETLRKHPVIPHLTRLTVADYKVPKTNWLLERGMRIFIPVDAIHHDPEIYPDPEKFDPERFTPEAIAQRHPFAYLPFGDGPRNCIGMRFGELQTAIGIIQLLRHFRFKPSPRTLSPMVYLKKNFLIAADGGIHLTVENLEKRN\*

>c65004\_g1

MALFTFLLCFSIILLGLTLYLKRLSKEYYLLAFCKLLKTVDGSKVTDKVYVVPGRTIFGNNFDILNSNPEDIYYWSRDLYQRANGKPYALYYYQGVIYSITSPEAVQEVFQSQTLNTKGILYDLVRPFLGEGLLVSSDQQWHDRRKLLTPAFHFNILQSFIEVFKNETLKLVNLLSAKQDQNMNLNEIIPEFTLNSVCETALGICLDDITGSSEYRKVIHDIELVMVNRTCNPFMYFPWIFKLFGDHKGFYKNLKVAHDFSSKIITKKREEFQKRQFANETVQGNDDETGKRKRYAMLDTLFHAESQGAIDHGGICDEVNTFMFEGYDTTATCLIFTLFNLAVYPDIQEKCYREVKNCDLLSMSIFDFNQLAYLECVVKETLRLQPSVPFISRSCREDTELNGVILSAGSQINIHILDIMRDEQHFPDPLKYDPDRFLPENSLNRHPFAFVPFSAGSRNCIGQRFAMLEIKAMLVGILQNFRLLPVTMPEDIRYEYGLVLRTKENILVKMVKRAN\*

>c65064\_g1

MYTANLSFILTWKMVIFTLFVLNFTITLTLVLFASVVALLTAMTYLFWRRMNYWQEHGIPHDKPSYLYGSFRGLTKLYGFSDILRSMYQRYKHTGPFCGYYFFQRPAVMILDTELVKNILIKDFSNFSDRGLFHNEKDDPLTGHLFFVDGKKWHVLHGKLSSTFSECKVRGMFPCVRDIAQQMISTLDQLLERNANVEVKELMGRYTTDVIGKCALGIECNSLTNPNAECRAIGRRIFTDRRHGLLVSGLIQGFPQLAQKLHMATIHPDIEKFFMRLVRENVEYREKYNVHGNDFMELLMELNKGAKLRYDKNDEFKGLTVEEMTAQAFFFFAAGSEKSSSTLSFALYELAMQPELQDRLRCEINETLCQHDNKLCFESLNEMAYMKQVIAGTYLRIGFVNKYVIVYISQKPYVSTRYYHIWHVKLCMIMSCPAIQSTLYRLAH\*

>c65065\_g1

MLSRHLKQIDHIGWRHLRGSRVRTFAAQVESKQNNASDVDLENARPYSEVPGPSKFELIRSFMPGGLFSKKPFLTAIREMEKIYGPIFRFPGIFDKPEFVIDLNPSDYSIIFRNEGPLPNRRVFDTFVYHREKHRPEFFQGVDGIISTSGEKWAKMRTAVNPILMQPKNAKLYLNTLLEINDEFLERIRHIRDPSTLEVPGGFLDDINRLAFEGIAGIALNTRLGLIHKNRDTAECETIMKCVRNFFVLSEELEIKPSIWKYVKTPKFKEMMNTLDTMTDICNKYINEALMRIEHDSEGNLTSELGKEKSVLEKLVRVDKKLAVVMALDMMLAGIDTTSSTLTGLLLCIATNPDKQQKLFEEIQQILPEKESQLRTENMQNLPYLRACIKEGIRCYPILPGTVRRLPNDIVLSGYRIPAGTDISIGANLLMHDERYVPQPDKFIPERWLRNDQSAQALEGQITNPFLYVPFGFGPRSCVGKRIVNLELEITLARLVRNFQIEFNYPTENAFAMKFMSVPQIPLKFKFIEREA\*

>c65110\_g1

MFVGRRREWISIFKCNGAPKHNTAVKRLLSKQPTCFGQQTATTTKANNQAALNNESKESHPEWQQARPFKEIHRVNPYTLFFKFLPGGRYYNLDATQMFKAMFAEHADIYIMPGMLGRPDIVMTQNPDDFEQIFRNEGAWPNRPSSLCLDYHRSELRADFYQNVEGLISTHGEKWASFRSAVNPILMQPKNINIYFDKMAQVNQEFVERIRTIRDPQTLEMPDDFDKWLQRFTLESVSIVALDRQLGLLCENSAVSPEVWTLFQSMSDFFTIPFDLDFKPSPWRYIATPKFKELMRSLDNIQNITLKYINAAMERLAEEQRKGIVRPEQEQSVLEKLLRIDKKIATVMAMDMLMAGVDTSTTVFIGILLALAENPEKQQLLREEVMRVLPQRDGKFAADALSRIPYLRACIKEALRMYPLGTGNIRVTPKDIVLSGYQVPKNTWVSVVAASLLMDDRYYPRSKEYLPERWLRSTENGEGAVPLKPINPFIYMPFGFGPRMCVGRRISDLELELGIARFVRNFHIEFNYPTGDVFRTAMINLPNKPLKFKFTDIE\*

>c65140\_g2

MLFCAILLLFFILALLNYVTKQRIRRGVLRNMPGPYCYPFIGAVQLYLQLSMNNMLDHMAKFHEQHGSIIAAWVANRVGISSMDLELNEQILASPQHIAKHFNYTILRQWLGTGLLLSDGRKWFVRRKIITPAFHFKILEQFVEVFDQQSTILLSCLAKKADGRNAFDVYPFVCLAALDIIAETAMGTKMGAQTDARSEYALAVNKTTKIIAWRFIKFHLNNEILFSILHPHLKWQQMRHIKTLHEFTTNIIKQRREALKRNRNVAPLTEDLTEDSHFVGKKKRMALLDMLLQSTIDDQPLSDDDIREEVDTFMFEGHDTITSGICFTLYLLSRHSEAQQKVLQEVAAVLGNDRKQAISLRELNELKYVECVIKETLRLYPSVPLVGRQLTEDFKYTHSQIGDGIIPAGAAILISLYGMFRQARYFERPTDFMPERHLNNGSASAFLFIPFSAGPRNCIGQKFAMLEMKMIIAKIVREYELLPFGEPVQIESNIVMRSTTGFQLGMRKRE\*

>c65207\_g1

MSAATETVQEAITQASASGGLGALWTSLIGVVVIAALYEYWRRSSREYRMTKNIPSPPEVPVLGNAHLVFGCSNAEVVAKGNAYLEQLGETLRATLGHVLVIFLTNPNDIEIILSSNNHLDKSEEYRYFKPWFGDGLLISSGSHWRHHRKMIAPTFHQSILKSFVPTFVQHSKNVVERMAKEVGKEFDIHDYMSQTTVEILLSTAMGVKKVPEGNKSFEYAKAVVDMCDIIHKRQVKVLYRLDSIYNMTKMRQKGDKMMNIILGMTKRVVMDRKANYNAEGNAIVEEIDESAKKAAAKKVDGLRDDLDDIDENDVGAKRRLALLDAMVEMAKNPEIEWNEKDIMDEVNTIMFEGHDTTSAGSSFALCMMGMHKDVQEKVLAEQKAIFGDNFLRDCTFNDTMEMKYLERVIMETLRMYPPVPLIARRVDSDVKLASGPYVVPKGTTVVVLQYRVHRRPDIYANPDKFDPDNFLPERMAKRHYYSFIPFSAGPRSCVGRKYAMLKLKVLLSTIIRNYTIHCNETEADWKLQADIILKLENGFNVVLQKRQPVVA\*

>c65224\_g1

MAITQILLLLVLGLVSYFAYWFRKRMNTWQDLGIACDKPNYLLGNLVGMRKTRSFADIGRSTYSKFKGTGPFCGFYWFHRPAVFVLETSLAKAVLIKEFNKFTDRGFYTNPDDDPLSGHLFALDGHKWRAMRNKLSPTFTSGKMKQMFPTVTRVAAELVNVYNEAVNGERRSTLEVRDSLGRYTTDVIGSCAFGIDCNSLKNPNDPFRQMGRRVFTDQRHGPLALALIILFPKLSRRLHIKITPDHITDFYMRIVRENIAYREANNIKRHDFFDMLMDLKNNKMMKSEDGQAMMNITVEELAAQAFVFMVAGFETSSTTMGFALYELAQREDLQQRARQEVVEVLQKHNGEFTYECMNEMVYLNQVILETLRKHTILPLLVRECLEDYQVPDQPKYEIKKGTFVIIPAVGIHYDEDYYPNPEEFNPDHFTPEKVALRDSIEWLPFGDGPRNCVGLRFGLMQTRVGLAYLLKNFKFSVSEKTQIPIKYSKESFVSMAEGDIYLSVEKLAA\*

>c65271\_g1

MTFLSLWIPVYLFVAAATLLFLWYRKGLNYWAERGVVYDKPSLIYGNMRGVGRTQTLRDPFQNFYQKYKHVAPFGGFYLSLRAAVVLFDLDLIRNVLVKDFANFVNRGNYYNVKDDPISGHVFNLDGASWRHMRAKLTPTFTSAKMKYMFPTVVAVAKEFVKVLEREATTLASDADASKQGIEIRDLLARFTTDVIGGCAFGLECNSLNEPNTEFRVMGKKVFSQRRHGRFVFAFAQAYPNLARKLGIKMTPNDVSTFFRKVVHDTVSYRERTGIQRNDFLNLLLELKKQENGLSLDEIAAQSFVFFLAGFETSSSTMSFALYELALHPEIQDKARAEIESVLARYDGEITYEGVREMQYLYQIFCETLRKYSIASITMRRTMNDYHVPNTKHVIEKGVIVIIPIDAIHRDPEIYPDPERFDPTRFEPEAVAKRHPMTWLPFGEGPRNCIGLRFGQMQALVGMALLLKNFKFTLAPQTKVPLEIKMDSFVLSSKDGIHLNVERIASS\*

>c65691\_g1

MIALLLFLLLGTLLFWFIKHQYSYWNRRNFPCDPDTNIPCGCLTSVVKHEKSMGVALYDAYVKAKSPFIGIYLLFRPAVMIRDAELARQILIQDFTSFHDRGVYVDEKRDRMSCNLFSLRGQSWRTLRQKLTPTFSSSKLKAMFHTSDDIGDKMVEHLNKILPDEGRAEVDIKEILVTYAIDIIGSVIFGLDINSFEDPKNKFRCLVHQASRNNLINANIGMLIFLCPSIIKYLVRLGFKNKTAVGLREILKDTIEYREKHNIIRKDMLQLMMQLRNTGKIAEDDDNWSTKANTTTGEENEFTLDDIAAQGFIFYIAGQETTSSAAAFTIFELAQYPDLLARAQNEVQEVLARHNGQLSYDALQEMPFLDLCLQETNRKYPFPFLSRECTRDYTIPGTEHVIEKGTPIVIPLLGIHRDPQYFTNPMIYDPDRFSPSNPNYNANAYMPFGAGPRQCIALRMGKINSKLSLVKILQNFDVEVMSKREIIIDNHSVGIQPKGGVKVRLSKKSKTVLLNVLLTRCEINRRLYIHIYVHMCIDHKVSLLQITYSLIAYTRI\*

>c65741\_g1

MTFDERLNGFSPDEQLPNSRSTKLMRAAETTNSIILPTDQGLQLWRHFETPKYRRLRKAQEYMESVAIDLVSQKLAYFKESKPDGNGDNHDGTMSRSSLIEEYLKNPNLDLCDVVGMAADLLLAGIDTTSYTTAFAVYHIARNAEVQAQLKAEACRVLATPKTPLSADALRAEVPYTRAVLKEVLRLNPISVGVGRILNRDLVLSGYHVPKGTVVVTQNMISCRLEKYFPDAQEFKPERWLHRNQAVHPYLVLPFGHGMRACIARRMAEQILLVFMLRLLRNFEVTWMGGADKMGVRTLLINKPSRPVSIQLKRRDESSHGN\*

>c65932\_g1

MELLQRLLYTALSAASIIYFIVKASLSHWKRRGILHEKPRFLVGNLGGVGGKRHISAVLEQLYEKYKGQAPFIGCYAYLKPMVLVLDLDLVRNVLITHSEHFKERGVFGNAPHDPLSANLLQQDGADWQRLNTVVCPAFAQDNISQMLPTLEKVASTMHRSLTQVSEDAAVSVNNLVDCYNIDVISTLAFGVSGETLLNSDTEFRRMARSYLKDFNMFRLYFLMYFPNVARLLRYKNYEQAATDYFLKLVRQKLFEQEWSRLDKRNSFFHMFAELKRDRDPKRRLSDEEIAAQAFSFILMGLETCNSAMTFCLYELALQPDLQRRVQEEICNVLKRNENGMDSKNLNDMNLLRQCLNETLRKHTPYSFLLRNTNEDYEVPNSIFMLRPDNHLVIPIAAIHHDPVLYPEPNKFDPERFSKENNKRRHPMAFLPYGAGPRYCLAQQFAENQMLVGLGTLLRDYSFSPCRETPIPLVYDNKRLVLTPKDKLKLNVQRR\*

>c66205\_g2

MLHKNTKDLHLKFQEFVSRFGKSFCALLLRDLMVVTADPRYVEELLSSQKHIQKNQLYWLLRDWLGEGLLLSYDRKWQMMRKIITPTFHFKILEQFVDVFERQSRVLVQKLSTLADGATTVDIYPHVGLMTLDVIAETAMGVCVHAQQDSKSDFVQAVNDVTNIVATRFIRPILAFPRLFKLLRPQQYEKQMEGIRIMHRFTEQIIEERRTALQNKYNTSTESAVSAEMLDMGLKPRMALLDVLLQSTTTDGQPLTDAQIRDEVNTFMFEGHDTTTSAISFSLYLLSRHPDCQRILFEEIRNHFGTDTNRPIKYADVQHLTYLNCVIKETLRLYPPIPVIGRWLKEELVLPDVTLPPRTNVLILLWQILRDPDVYTEPERFWPERHLENNERANVFSNIPFSAGPRNCIGQRFAIFEMRTVIVQVLRHYELLPFGVPIQPSIKIVLRSKSGVNVGLKTRAYV\*

>c66266\_g1

MDFYFIIFSTIFMLLLSYLRYKYQYWELLGVPQLKMNYFLGNLFRIKTIHKTELLHEVYKEFRGKAKLVGTYIFTKPIAVALDLDLVKSILIKDFNKFTERFEQRKSSDSIVNRHLFSVDGERWRPLRTKLTPTFTSAKMKFMFPTLLTVAQQLEEAFSKQLAKTSSEDVELHDLMGRYTTDVIGHCAFGVECNSLKDPNVVFRRMGRRIFYPKYFSIRLRTFMTSYPTLFKFLKFFNIKEHSKDVEDFVVQLVHDTTRLREEQNIQRNDFIDLLIELKNSQDKEGVPAMGIKEMAAQVFIFFAAGYETSSSNLSYGLYELAKNPYVQEKLRAEIKNVLEKHNGELTYEAMMEMTYLDQVITETLRMYPALGALTRVSIDDYKIPDTDITLEKGTRIYIPVKEIHYDPAIYDNPKEFRPERFHPDEMQKRHPQAFLGFGDGPRNCIGLRFGRMQVRVGFITLLKSYRFSLSEKTPTELEISKYSIVLVPHSKIWLKAEKL\*

>c66266\_g2

MLTYPIMFKILQLFKVKRIPNHVEDFIIRLVHDTVRYREEHKVERKDFMNLLIELKNTKDSEGVPLMSIDELAAQVFVFFAAGFETSSSNMTYGLFELAKNQRVQDKLREEIKTVLSKHNGELTYDAMKEMTYLDQVINETLRKYPALGALTRVSVDAYKVPDTNITLEKDTNIYIPAKEIHYDPDIYDNPNEFRPERFDPAEMEKRHPQAFLGFGDGPRNCIGLRFGRMQVRVGLITVLKSYRFSLSEKTPTELEISKYSIVLVPHSKIWLKAEKL\*

>c66340\_g1

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>c66409\_g1

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>c66490\_g1

MFHLTILERFIDTFADASQTLFENLHASANEEVNIAKYINNCVIDILNEAVLGVPVKRQGALVDMEQSPFRQGKVVVNERFLQPWLLFESVYKFTKIASEELDQKKRLDQFTRKMIKRRRDMIASGTFVGRKCLLDYMIEISDNNADFTEDDIVDEACTFMLAGQDSVGAAVAFTLFLLAQNPECQDKCVAEINDIFMDDQRAPTMNDLRDMRYVEMCIKEALRLCPSVPLMARKLGEEVRLGKYTLPAGSNIFICPYATHRLPHIYPDPEKFDPERFSPQNMETRHPYAYIPFSAGPRYCIGNRFAIMEMKTVVSRLLRSYQLLPVPGKTSFNATFRITLRASGGLWVHLKPRENPLIDYSN\*

>c66490\_g2

MFIQKMIDHATHSELWSFATLLAIALSIYSLWDYIKSVLLSLKLSGPEALPILGNCLIIKEKDMLAKRVATAFGLYGPLIRVWVLLFPFFAVLQPDDLQVILSSKKHTEKVFIYRLM\*

>c66712\_g1

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>c66713\_g1

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>c66800\_g1

MWAFESVAVVALNTRLGLLARDKPDPNVLKIVDGMNAFFEKAYTYDVTPSFWKYIETPGFKELMKAYEDVTDATTFYIEKAMEKFKNEQNDEARSVLEKLYRINKNVAVVMAIDMLMAGLDTTSATVISVLHFLGQNPEKQEELRKELFKLLPDPKMPLTEENTKNMPYLRACIKESLRLKPIANGNFRLSGRDIVLSGYKVPKGVGVYMATMSLSNSDEYFERSAEFLPERWIKAAKATCPVSQKHNPFVYLPFGFGPRTCIGKRLAELEMETLLVRLIRNYRVTWVGEKPLEYINDLILRPTGEMKFKFEKL\*

>c66841\_g1

MWLLIPILFYSVIFLYIRHIYTYWKRKGFPTERTGLNWQFLKQVYRREFHYVDAINEAYKAGGERPLYGVYFFFRPTLLVRDVALARTILEIPHGHFDDKRWHYMQGYRKINLLEKLASIFSVPRVEGMFRNVEKVADHMVKQMNALTLGSEQLDMQIVMRTYVINVFANLLYGLDTNLFEPNDSVFKRYILSTLRNRGINSYTFNHLPKKSSLTYRLRDIIKDSVGRREDGGIIRKDIMQLLVKFRNGNNLTNNGKLSWHVENVFEREKLLSIKKLSKIAERFLNIGYESTASAATLTLYEILQAPSIYKKVIEEIRQLSVATKNADNADNRLTYADIDSLQYLGACIKETVRKYPSVPYIERVCGKNFPIPNSRATINEGRTVMIPVMAMQRDERHFKDPDYYRPERFYNVKSGPELDNFMGYGLGASVCVARNFAILVTKLALVKLLQHFDMEYTPNEDVQIVHNPAPVIICKGGFKIRLKTYKNNTLL\*

>c66891\_g1

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>c66891\_g2

MIEFSSEVLKNIGKTCHLWLLNQSTILTADPIFLEPLLSSQKVLTKNNLYELLTPWLREGLLLSTGSKWHSRRKIITPTFHFKILEEFVGVFERQSNVMMDLLRDKADGKTV\*

>c66914\_g1

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>c66932\_g1

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>c67093\_g1

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>c67135\_g1

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>c67151\_g1

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>c67406\_g2

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>c67828\_g1

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>c67828\_g2

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>c67828\_g3

MGVSVHAQTNTDSEYVQAVKTISTVIHKRMFDILYRFDLTYRFTKLAREEKRALSVLHGFTERIIMQRREELLRAQE\*

>c67880\_g1

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>c68012\_g2

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>c68265\_g2

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>c68269\_g1

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>c68608\_g2

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>c68608\_g4

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>c68850\_g1

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>c68896\_g1

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>c68915\_g1

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>c69077\_g2

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>c69292\_g1

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>c70026\_g1

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>c73799\_g1

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>c7431\_g1

MLLLCYLTVAIMSFWYLLILYKHFRKIKVITTEHTKETKFYQQAPGPLPWPILGNLHLLVSQKPTTELLTDLSKQFGSMYSLTLGATKCIVINNLELIKEVLNQNGKFFGGRPNFIRYHQLFGGDRNNSLALCDWSILQKKRRNLARKHCSPRDTSPYFIKMSNVGCSEIKILIEKLNETINNNKQIPIKSFVQRACANMFFQYMCSVRFEYNDHDFCEVVDFFDEIFWEINQGYAVDFLPWLAPFYKNHMNKLIHWSSTIRSFILKRIINKREELNSSQPQDDFTDALLNSLMEDKKLSCDTILFMLEDFIGGHSAVGNLVMLTLIYLIKHPNVAKKIQLEADSVSCKGQRIISFYDIDSMPFTMATIFEVLRCSSSPIVPHVATEDTVICGYGVAKDTIVFINNYNLNHNKLYWKKPNCFQPERFLDYSVEKNEPKPTLNVLRNCEKSEMEESFRNTINKTKNEVIQIRKNMPYFLPFSIGKRTCIGQNLVRGFGFILVANILSQFNIYYENGNNIEINIGCIALPANPIPIALVKRNKNI\*

>c7542\_g1

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>c76893\_g1

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>c76909\_g1

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>c7765\_g1

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>c80943\_g1

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>c83806\_g1

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>c85506\_g1

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>c90252\_g1

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>c93245\_g1

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>c93645\_g1

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>c94450\_g1

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>c99583\_g1

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