

Supplementary File S2. FASTA sequences for land plant Dhns identified by Dhn Decoder referenced to known Dhns in the Phytozome genome database.

FASTA sequences for the 17 Arabidopsis Dhn sequences identified by Dhn Decoder, referenced to the 10 Dhns in the TAIR genome

TAIR AT1G54410 HIRD11 HSK  
>NP\_175843.1 dehydrin family protein [Arabidopsis thaliana]  
MAGL**INKIGDALHIGG**GNKEGEHKKEEEHKKHVDEHKSGE**HKEGI****VDKI****KDKI****HG**GEGKSHDGE**GKSHDG**  
EKKKKKDKKEKKHHDDG**HHSSSSDSDSD**

TAIR AT4G38410 GC-type FSKn  
>NP\_195554.2 Dehydrin family protein [Arabidopsis thaliana]  
MADHPRSTEQQEADAAASK**GCGMFDLKK**KPEDVHSSSENARVTKEPKKEEKPSLAER**FLSDSSSSDDEEA**  
GENGEKKEKKKKKKNEVAEDQCETEEKIPAGIGHEDG**KEKGFMEKI****KDKLPG**GHNGKPEAEPHND**KAKE**  
**KGFMEKI****KEKLPG**HTNDEKKKET  
>CAD5330306.1 unnamed protein product [Arabidopsis thaliana]  
MADHPRSTEQQEADAAASK**GCGMFDLKK**KPEDVHSSSENARVTKEPKKEEKPSLAER**HLSDSSSSDDEEA**  
GENGEKKEKKKKKKNEVAEDQCETEEKIPAGIGHEDG**KEKGFMEKI****KDKLPG**GPDIIYSITNDNLIINVHN  
DLDEPFLLSWNGVQLRKNSYQDGVYGTTCPIPPGKNYTYAIQVKDQIGSFFYFPSLAVHKAAGGFGGFRI  
LSRPRIPVPFPPEAGDFTFLIGDWFKHDHKVLKAILDRGHKLPLPQGVLINGQGVSYMSSITVHKGKTYR  
FRISNVGLQNTLNFRIQGHQMKLVEVEGTHTVQSMYTSLDIHVGQSYSVLVTMDQPDQDYDIVVSTKFVA  
KKLLISSTIHYSNSRYSHSSANSVLVQQPADELDSWIKQARSIRTNLTASGPRPNPQGSYHYGRIKISR  
TLILESSAALVKRKQRYAINGVSFVPGDTPLKLADYFKIKGVFKMGSI**PDKPRRGRGMRMETSVMGAHHR**  
DFLEII**FQ**NREKIVQSYHLDGYSFWVVGMDRGTWSKASRREYNLRDAISRSTTQVYPESWTAVYVALDNV  
GMWNLRSYWARQYLGQQFYLRVYSPTHSLRDEYLLPKNALLCGRASNKHTTP

TAIR AT1G20450 ERD10/LTI45 DR-type FSK3  
>NP\_564114.2 Dehydrin family protein [Arabidopsis thaliana]  
MAEEYKNTVPEQETPKVATEESSAPEIK**ERGMFDLKK**KKEVVKPQETTTLASEFEHKTQISEPESFVAKH  
EEEEHKPTLLEQLHQKHEEEENKPSLLDKL**HRNSSSSSSVSKK**GEDGEKKEKKKKKIVEGDHVKTVEE  
**ENQGVMDRIKEKFPL**GEKPGGDDVPVVTMPAPHSVEDHKPEEE**EKKGFMDKI****KEKLPG**HSKKPEDSQVV  
NTTPLVETATPIADIPE**EKKGFMDKI****KEKLPG**YHAKTTGEEKKKEKVS  
>AAN60289.1 unknown, partial [Arabidopsis thaliana]  
MAEEYKNTVPEHETPKVATEESSAPEIK**ERGMFDLKK**KKEVVKPQETTTLASEFEHKTQISEPESFVAKH  
EEEEHKPTLLEQLHQKHEEEENKPSLLDKL**HRNSSSSSSSSDE**EGEDGEKKEKKKKKIVEGDHVKTVEE  
**ENQGVMDRIKEKFPL**GEKPGGDDVPVVTMPAPHSVEDHKPEE  
>AAK82471.1 At1g20450/F5M15\_20 [Arabidopsis thaliana] (partial)  
**MDRIKEKFPL**GEKPGGDDVPVVTMPAPHSVEDHKPEEE**EKKGFMDKI****KEKLPG**HSKKPEDSQVVNTTPL  
VETATPIADIPE**EKKGFMDKI****KEKLPG**YHAKTTGEEKKKEKVS  
>CAA54705.1 lti45, partial [Arabidopsis thaliana]  
GKTQISEPESFVAKHEEEHKPTLLEQLHQKHEEEENKPSLLDKL**HRNSSSSSSSSDE**EGEDGEKKEKKKE  
KKKKIVEGDHVKTVEE**ENEGVMDRIKEKFPL**GEKPGGDDVPVVTMPAPHSVEDHKPEEE**EKKGFMDKI**  
**EKLPG**HSKKPEDSQVVNTTPLVETATPIADIPE**EKKGFMDKI****KEKLPG**YHAKTTGEEKKKEKVS

TAIR AT1G76180 DR-type FSK2  
>NP\_001185408.1 Dehydrin family protein [Arabidopsis thaliana]  
MAEEIKNVPEQEVPKVATEESSAEV**DRGLFDLFGK**KDETKEETPIASEFEQKVHISEPEPEVKHESL  
LEKL**HRSDSSSSSSS**EEGSDGEKRRKKKEKKKPTTEVEVKEE**EKKGFMEKL****KEKLPG**HKKPEDGSAAVAA  
APVVVPPVVEEAHPV**EKKGILEKI****KEKLPG**YHPKTTVEEKKKDKKE

TAIR AT1G20440 COR 47 DR-type FSKn  
>BAH56867.1 AT1G20440 [Arabidopsis thaliana]  
MAEEYKNNVPEHETPTVATEESPATTT**EVDRGLFDLFGK**KEEVVKPQETTTLESEFDHKAQISEPELAA  
EHEEVKENKITLLEELQEKTEDEENKPSVIEKL**HRNSSSSSSSSDE**EGEEKKEKKKKKIVEGEEDKKGLV  
EHPE**EKKGILEKI****KEKLPG**YHAKTTVEEVKKEKESD  
>NP\_173468.1 cold-regulated 47 [Arabidopsis thaliana]  
MAEEYKNNVPEHETPTVATEESPATTT**EVDRGLFDLFGK**KEEVVKPQETTTLESEFDHKAQISEPELAA  
EHEEVKENKITLLEELQEKTEDEENKPSVIEKL**HRNSSSSSSSSDE**EGEEKKEKKKKKIVEGEEDKKGLV  
EKIKEKLPGHHDKTAEDDVPVSTTIPVPSVESVVEHDHP**EEKKGLVEKI****KEKLPG**HHDKAEDSPAVTS  
TPLVVTEHPVEPTTELPV**EHPEEKKGILEKI****KEKLPG**YHAKTTVEEVKKEKESD

TAIR AT3G50970 LTI30/XERO2 K6  
 >NP\_190666.1 dehydrin family protein [Arabidopsis thaliana]  
 MNSHQNQTGVQKKGITEKIMEKLPGHHGPTNTGTVVHHEKKGMTEKVMQQLPGHHGATGTGGVHHEKKGMT  
 EKVMQQLPGHHGSHQTGTNTTYGTTNTGGVHHEKKSVTEKVMKLPGHHGSHQTGTNTAYGTNTNVVHHE  
 KKGIAEKIKEQLPGHHGTHKTGTTTSTYNTGTVVHHEKSTMDKIKEKLPGGHH  
 >AAN60327.1 unknown, partial [Arabidopsis thaliana]  
 MNSHQNQTGVQKKGITEKIMEKLPGHHGPTNTGTVVHHEKKGMTEKVMQQLPGHHGATGTGGVHHEKKGMT  
 EKVMQQLPGHHGSHQTGTNTTYGTTNTGGVHHEKKSVTEKVMKLPGHHGSHQTGTNTAYGTNTNVVHHE  
 KKGIAEKIKEQLPGHHGTH

TAIR AT4G39130 Y2K  
 >NP\_195624.1 Dehydrin family protein [Arabidopsis thaliana]  
 MADLKDERGNPIYLTDAGHEPAQLMDEFGNAMHLTGVAATVPHLKESSTGPHPIAPVTTTNTPHHAQP  
 ISVSHDPLQDHLRWFGTSSSTEENEGVGKRTNITDETKSKLGVDPKPSAATVTGSGSGSVHEKKKGFKKI  
 KEKLSGHHNDL

TAIR AT3G50980 XERO1 YSK2  
 >NP\_190667.2 dehydrin xero 1 [Arabidopsis thaliana]  
 MESYQNQSGAQQTHQQLDQFGNPFPATGAYGTAGGAPAVAEGGGLSGMLHRSGSSSSSSSEDDGLGRR  
 RKKKGITEKIKEKLPGHHSNKTSSLGSTTTAYDTGTVHHEKKGMMEKIKEKLPGGHH  
 >CAD5325456.1 unnamed protein product [Arabidopsis thaliana]  
 MESYQNQSGAQQTHQQLDQFGNPFPATGAYGTAGGAPAVAEGGGLSGMLHRSGSSTTTAYDTGTVHHEK  
 KGMMEKIKEKLPGMVKSMVCIVLAQFSLVALFPLCICYQTHQSTSSVASLSPQFYDNPCNAQAIVQSYV  
 ANAYLNDPRMAASILRLHFHDCFVNGCDASVLLDSSGTMESEKRSNANRDSARGFEVIDEIKSALENECP  
 ETVSCADLLALVARDISIVICGGPSWEVYLGRRDAREASLIGSMENIPSPSTLQTLISMFNFGGLDLTDL  
 VALLGSHTIGNSRCIGFRQLYNHTGNNDPDQTLNQDYASMLQQGCPISGNDQNLFNLDYVTPTKFDNYY  
 YKNLVNFRGLLSSDEILFTQSIETMEMVKFYAENEGAFFEQFAKSMVKMGNISPLTGTGDGEIRRICRRVN  
 HDV

TAIR AT2G21490 Y2SK2  
 >NP\_179744.1 dehydrin LEA [Arabidopsis thaliana] (AT2G21490)  
 MADLRDEKGNPIIHLTDQGNPIVDLTDEHGNPMYLTGVVSSTPQHKESTTSIDAEHPTSTVGETHPAAAP  
 AGAGAATAATATGVSAGTGATTTGQQHHGSLEEHLRRSGSSSSSSSEDDGQGGRRKKSIKEKIKEKFGSG  
 KHKDEQTPATATTTGPATTDQPHKKGILEKIKDKLPCHHNNHP

TAIR AT5G66400 RAB18/ATD18 Y2SK2  
 >NP\_201441.1 Dehydrin family protein [Arabidopsis thaliana]  
 MASYNRPGGQATDEYGNPIQQQYDEYGNPMGGGGYGTGGGGGATGGQGYGTGGQGYGSGGQGYGTGGQG  
 YGTGTGTEGFGTGGGARHHGQEQHLKESGGGLGGMHLHRSGSGSSSSSEDDGQGGRRKKGITQKIKEKLP  
 HHDQSGQAQAMGGMGSYDAGGYGGEHHKKGMMDKIKEKLPGGGR

FASTA sequences for homologues identified by Dhn decoder to the eight Dhn genes in the *Oryza sativa* genome on Phytozome.

Os11g26570 YSK2  
>XP\_052136541.1 water stress-inducible protein Rab21-like [Oryza glaberrima]  
MAHFQGGQGHGHPAARVDEYGNPVAAGHGITGTQEAGAGGYGAAGNVAQPQHAFGGATDAGGYGRQAGYGA  
TGTGTHDAAGYGGSGQPAYGATGTGVHDAGGLMPGHTAGHGTTGTGVHHGAGAGLPAEQTAGYETTTGVTG  
AQHGAGGLGTGHTAGYGTGAHHGAGGLGTGHMAGHGATTTPTDMAYGTTGTGAPHGATAGTGAYPHAGG  
QFQPAREEHKTGGILRRSGSSSSSSSEDDGMGGRKKGIKEKIKEKLPGGNKGQQQPTATAATGGYGA  
GTGHTAAAGTTTDAAGTAYTPTTQPTHKKGMMEKIKEKLPGGGHH

Os11g26750 YSK2  
>NP\_001410121.1 dehydrin Rab16D [Oryza sativa Japonica Group]  
MEYQGGHGHGASSRADEHGNPAVTTGNAPTGMGAGHIQEPAREDKKTGVLRRSGSSSSSSSEDDGMGG  
RRKKGIKEKIKEKLPGGNKGNNQQQQEHTTTTTTGGAYGPQGHDTKIATGAHGTAATTADAGGKKGI  
VDKIKEKLPQQH

Os11g26760 YSK2YSK2  
>XP\_006662923.2 cold shock protein CS66-like [Oryza brachyantha]  
MEHQGGHGHVTSRVDEYGNPVGAGAGHGQMGTTGGMGTHGTTGTGTGGQFQPMREEHKTGGV  
LQSGSSSSSSSEDDGMGGRKKGIKEKIKEKLPGGNKGQHTMGTTGTGAGAYGQGGHGTGTTGTT  
GAHGTTTTTETGKKGIMDKIKEKLPQEREEMENYQQGHGTADRADVGNPVYDGAPGGGPAVGMGAA  
GHGAGGGQFQPAREGRKTGGILHRSGSSSSSSSEDDGMGGRKKGIKEKIKEKLPGGNKGTTQQQMMMDG  
DTGGYGAYGQQGHAGMTGGGTGLHGAEGYTTGKKGFMDKIKEKLPQQH

Os11g26780 YSK2  
>NP\_001410123.1 dehydrin Rab16B [Oryza sativa Japonica Group]  
MDNYQGGHGYGADRVDVYGNPVGAGQYGGGATAPGGGHGAMGMGGHAGAGAGGQFQPAREDHKTGGILHR  
SGSSSSSSSSSEDDGMGGRKKGIKEKIKEKLPGGNKGNNHQQQQMMGNTGGAYGQQGHAGMTGAGTGVHG  
AEYGNAGKKGFMDKIKEKLPQQH

Os11g26790 YSK2  
>NP\_001410124.1 water stress-inducible protein Rab21 [Oryza sativa Japonica Group]  
MEHQGGHGHVTSRVDEYGNPVGAGAGHGQMGTAGMGTHGTTGGMGTHGTTGTGGGQFQPMR  
EEHKTGGVLQSGSSSSSSSEDDGMGGRKKGIKEKIKEKLPGGNKGQQHAMGGTGGAYGQQGHGTGMT  
TGTGAGHTTTTDTGKKGIMDKIKEKLPQQH

Os02g44870 FSK3  
>KAF0934351.1 hypothetical protein E2562\_024837 [Oryza meyeriana var. granulata]  
MEDERNTQSHQGGEATEQVEVKDRGLFDSLGGKKEDQPEKKKQEEELVTGMQKVSVEEPKKEEHHAEGE  
KKESLLSKLHRSSSSSSSSSEDEEEVIDDNGEVVVRKKKKGLKEKIKEKLPGHKNHDGEPAPPPVATGFP  
APAPPAPVVAAPTAPAPVVTGHHDTAVPVEKIEGDHAKTDASHAPEEKKGFLLDKIKEKLPGGHKK  
PEDATAAPPAAAPSPAPAPAHPPPATEEVSSPDGKKKGILGKIMEKLPGYHKGSGEEDKTAATTAG  
EHKSTA

Os01g50700 Y2SK2  
>EEE55258.1 hypothetical protein OsJ\_03161 [Oryza sativa Japonica Group]  
MVVDSAYYDVLGVSTDAASAEIKKAYYLKAKLVHPDKNPNPDERRFKELGEAYQILSDPVRKDSYDKH  
GKEGLPQDNMIDPTAVFGMLFGSDYFEDYVGQFALASVASVEIEESDNTTEARARIQDKIKELQTEREQK  
LVQSLKDRLPQPYVDGMQDEFDWDAGAEQRLSQAAFGEAMLHTIGYIYARQAARELGKSKMYMGVPFIAE  
WVRDKGHVKSQVNAAAGAIISLIQLQEGIKKIEGDDKEGQLMKSIEEKKDAMLNSLWKINVVDIESTLSR  
VCQAVLRENTVSKDVLKVRARGLKKLGTIFQCTLLLFTRNLPEIRPQRGAPGAYVPFSGHARRPYEGTRG  
LPAGLQIIPPVASCFLVQIRVFRFIIIFPFISSIARITHGSKRVTELETEEEATRHHQPMAEHATGVYGH  
PYPRVDQYGNPVPVVDQYGNPVPDEPAPRDTAAGYVAPPDPAVSTGDYGLAGAEAPHPHESAVMSGAAAA  
AVAPGGEAYTRDGGGVVPAGEKTFAYEGTVSAAGVTGASGQLQPTTREEGHTTLGETLRRSGKSSSSSS  
SSSEDDGQGGRRKKKSIKEKIKEKLPSSHQEEQKQAGHTAPAACTGTGTGTHAAGKHEKKGIVEKIKEK  
LPGHGHH

Os03g45280

HKS

>BAA24979.1 LIP5 [Oryza sativa Japonica Group]

MAGI I H K I E E K L H M G G G E H K K E D E H K K E G E H H K K D G E H K E G V V E K I K D K I T G D H G D G G E H K E K K D K K K K K  
E K K H G E E G Y H H D G H S S S S D S D

FASTA sequences for the two Dhn genes identified by Dhn Decoder in *Amborella trichopoda*, referenced to the equivalent Phytozome identifier, and a third HKnS Dhn not identified as a Dhn in Phytozome.

evm\_27.TU.AmTr\_v1.0\_scaffold00001.295 SK3  
>XP\_006829002.1 dehydrin COR47 [Amborella trichopoda]  
MADEHTTSVVPESGDGRVEVHERGLFGHHHPETPEQKQEEALASKFEEVYVSEKKKEEKEKDEEKKGSSL  
EKLHRS~~SGSSSSSSSS~~DEEAEWKKKKKERKGLKEKIKEKLSGGSEAVKEKAGEGAPHCAGAEHAHEK~~EK~~  
KGLPEKIKEKLHG~~GGGYGAPQHPVEAPESAPQTSAPHP~~EGQSHE~~EKKGFLEKIKEKFSGYHPNSGEETTP~~  
SH

evm\_27.TU.AmTr\_v1.0\_scaffold00082.27 SK2  
>XP\_006833478.1 dehydrin DHN2 [Amborella trichopoda]  
MAEYRGDERYQKHEHGYEQQPGYYGGTVTGTGTGAGTGAGTGTGGVMLGTTGAGMMHGTQPEQQKLHRS  
N~~SSSSSSSE~~DDGMGRRKKKGLKEKIKEKLPGGHKTTEGQGHEAGAGVHGHEHEH~~EKKGIIEKIKEKLP~~G  
HKDQLNA

Not identified as a Dhn in Phytozome:

evm\_27.model.AmTr\_v1.0\_scaffold00004.97 HKnS  
>XP\_006826344.1 protein SRC1 [Amborella trichopoda]  
MASIVNKIG~~EKLGI~~GGDKKHGEEHKHGEELKHHKEGEHSHGEHGE~~HKEGFM~~EKVKEKIHGDGDK  
IHGDGEKEKKKKKKKKPGHEHD~~GGSSSSSSSDSD~~

FASTA sequences for two (H)KnS Dhns identified by Dhn Decoder in *Selaginella moellendorffii*, not previously identified as Dhns in Phytozome.

S. moellendorffii genome ID in Phytozome: 446994 HKS  
>XP\_002987557.1 uncharacterized protein LOC9629804 [Selaginella  
moellendorffii]  
MASMMEKISDKLHM~~GH~~KKDQVAHNTAPSHATPVQSSSTPPSHNTAPGSYGTPQPGMATTTTSTTTTQ~~PQKE~~  
GLMDKIKKKKNQHKEKKKAG~~GGSSSSSSSDSD~~  
>XP\_024522267.1 uncharacterized protein LOC112343298 [Selaginella  
moellendorffii]  
MFIHFPSFQLEAKIPSLQISHKAMASMMEKISDKLHM~~GH~~KKDQVAHNTATPVQSSSTPPSHNTAPGSYGTP  
QPGMATTTTSTTTTQ~~PQKEGLMDKIKKKKNQHKEKKKAGGGSSSSSSSDSD~~

Not identified as a Dhn in Phytozome:

448256 KS  
>EFJ07973.1 hypothetical protein SELMODRAFT\_448256 [Selaginella  
moellendorffii]  
MAFRSVLVASKKNALGHLLVKKEFLATSPLLLNEAGTAESMAHKVGDKVEKAGENLKETAKDSKEPAES  
GMREQVRSAAEKIGDATASAGDKIEHSMESSEGGEEKSKLNLEDKQIFGFVLFSSQVLFVLLILAALM  
ASMMEKIGEKFGKKDDEHNKLGQ~~THE~~THGLGQ~~QTH~~QAGYQGEAGYQHGQGVGHGQGVGHNPSTPY  
GATTGTTGTGHNPGSTPYGATTGTNPTSGHTATGQPQ~~KKEGLMDKIKKKKNQHKEKKEGDKSSSSSESD~~

FASTA sequences for the five Dhns in Phytosome identified by Dhn Decoder in *Aquilegia coerulea*, and two additional sequences not previously identified as Dhns in Phytosome.

Aqcoe6G128700 Y2SK2  
>PIA52794.1 hypothetical protein AQUCO\_01000572v1 [Aquilegia coerulea]  
MSGYPISQSTDEHGNLVPQRPDEYGNLVHQTGTGHTGTGQTGPGTGHTGTGGYGGHTGTGGYGAGDGTGTGQ  
HTGTGLGTGTGQHAGTGLGTGAGHHTGTGVGGEQHGGLVLRSGSSSSSSSEDDGMGGRKKKGLKQKIKE  
KLPGGQKETQPGYGAGTTGAGTTGPGYGTGTTGAGAGYGTTEQPHKKKGMIEKIKEKLPGHHA

Aqcoe6G197600 FSK3  
>PIA32914.1 hypothetical protein AQUCO\_04300099v1 [Aquilegia coerulea]  
MAEQQPQTTFEGAEIKDRGMFDLSKKKEEEKPQEAELATELENVHVSEPVHDHVAEPVEVKKEEVDE  
EKKPSLLEKLRSDSSSSSSSEEEVEEDGQKIKRKKNKGLKEKIKEKISPEKKVEEDTTVPIEKFDDE  
VGVVSHEGEVKHPEKKKTFMEKIKEKLPGGNKKTADHESASTPDAIVLPPPAAPVHEEPEKKKGILEKI  
KEKLPGYHKTEDEKKETTTTTEH

Aqcoe5G186200 YK3  
>PIA55858.1 hypothetical protein AQUCO\_00700288v1 [Aquilegia coerulea]  
MADQQDVWGTAARNTFDFGNPAPKRTDDDETALATGGMGHQQLHRGRDEHDKNMMDKVKEKVPGSHTGTTD  
TGAGYGTGQKTAGCGHDKGMMDKINEKMPGSHTSETGGCGTGQKQTGFAGQQTGYGREHEDKGMMEKV  
KEKLPGTGRHQP

Aqcoe5G125000 SK4  
>PIA56789.1 hypothetical protein AQUCO\_00700853v1 [Aquilegia coerulea]  
MAAEQIQHPLTNESNVEEHETNDRGILNLFLEKKEEENKPDDELSPPEFAETHVLKSEEKKQEENKPSLT  
EKLHRSNSSSSSSDEEGDEGGKKKSKKGLKDKIKEKIGGEKEQEKNAEHNQVVAGDVTRPEGAEDKKGF  
KIKEKLPGTHKTDNNEELVSPDITHQEEKEKKGFMEKIKEKKLPGTNKTDEVAPVDKYHPTANKHQDE  
SEKKGFMEKIKEKLPGIPANQKNVEVKGEKETGNYY

Aqcoe5G125200 K2  
>PIA56786.1 hypothetical protein AQUCO\_00700851v1 [Aquilegia coerulea]  
MATEQNQIPKAHVNTNEEGQHEHEHHTMLDFLEKKEEQKPTDELSVNEFVKDHSVSKSEEKKEEEEHKPT  
SAPNVDRSSDIHSSGDVTHPEETEEKNLMEKIKNKLPGAHKKTDEVAPVEHHPTETKTNIHQDKPEKKG  
LMEKIKEKLPGHNKSVVEEKGA

Not identified as Dhns in Phytosome:

Aqcoe2G065100.1.p HKS  
>PIA59837.1 hypothetical protein AQUCO\_00400603v1 [Aquilegia coerulea]  
MAGIMNKIGDALHIGGNKEEQKQGEAHKTEIKHGETAHKPEQKEGFVDKIKDKITGQGPBKTEGGGEKKK  
KKEKKKKEGDHGHGSSSSSDSD

Aqcoe1G498400.1.p K1  
>PIA46155.1 hypothetical protein AQUCO\_01600430v1 [Aquilegia coerulea]  
MPMKILDVPCLEDNYSYIIFDESSQAAVVDVPEPKILQVVNQHGLHLNLVLTTHHHWDHAGGNDKIKE  
LLPGIKVYGGSLDNVRGCTHQLLNGDTLSLPHTNINILSLHTPCHTRGHISYYVTATDQHDSAVFTGDTL  
FVAGCGKFFEGTAEQMYQSLCVTLGSLPKTTRVYCGHERMRR