

Table S1 plant VIRMA amino acid sequences.

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MVRSEPCVLFQAQTFVHPQLDEYVDEVIFAEPVIITACEFLEQNASSSSQAVSLVGATSPPSFA
 LEVFVRCGEGESKFKRLCNPFLYTPSAPYPLEVEAVVTNHLVVRGSYRSLSLIVYGNIVKDL
 GQYNILEGRSVTDIVSSTEGNLEDPLVLHSVNRTIECLSSL DIVSLPLAAVDLPVEVKRL
 LQLLKIFDKLATNDVNVKFDTVVSGVSSYVTDNVDFFLKNKNCSAVTSSLDSGLFHD
 VDRVKEDELDLNEIQESDVALGLFSFLESETYLATSQQLVVMLSPYIQFERDSLCTVLPKLS
 KGKATLLGLSLAFLLCGREGCLQFVNSGGMDQLVYLFHDGQNSTTITLLLGVVEQAT
 RHSVGCEGFLGWWPREDGSI PGS KSEG YC LLKLLMQKPCHEIASLAIYILRRRLRIYEVISR
 YEFAVSALEGLSNSHGAATHNLNMLS DAKSQLQKLQNL MKSLGSVEDPSPSAYAERSLV
 SDHSEGWL SYKATSKLTSSWTCFYSSGIDSHI ALLKERGFPLLSAALLSMPELHSKVGDI
 MDVFTDIAMFIGNIILSFMFSRTGLSFLHHPELTATIIQSLKGSDLNKEECVPLHYASILIS
 KGFTCSLLEIGINLEMHLRVVSAVDRLLKSIQQTEEFWLWELRDVSRSDCGREALLTGV
 FPEALAVLIEALHSAKDMEPAVENSGISPLNLAICHSAAEIFEVIVSDSTASCLHAWIEHAPV
 LHKAHLTLSPGGSNRKDAPSRLKWI DAGVVYHKHG VGGLLRYA A VLASGGDAQLSSSI
 LALDLT PAENGAGE STNVSEMNVLDNLGKVIFEKS FEGVNLSSSISQLTTALRILALISDN
 STVAAALYDEGA VTVVYAILVNCFS FMER SSNIYDYLVDDDHCSSISDFLSERNRE QSLVD
 LLIPSLVLLISVLQRLQGTKEQYRNTKLMKALLRLHREVSPKLAACAADLSSHYPDSALGF
 GAVCHLIVSALVCWPVYGPWGPFLHTLLSGVQTSSVPALGPKETCSFLCILSDILPEEGVWF
 WKSGMPLLSSGLRKLA VGTLMGPQKEKQINWYLEPGPLEK LINHLPNLDKIAKIIQHHA
 ALVVIQDMLR VFIVRIACQRV EHASILLRPPI FSSIRD GILDQSSTRDTEAYMVYR
 YLNFLASL LEH PHAKG LLEEGIVQLLVEVLC RYDAT YPSEN RVLEYGIVSASSVIQ
 WCPA FRSISLLC DSQVPLLCFQKKELLASAKDCALIFPFV LKFCQVLPVG NELLSCLGAF
 KDLSSCGEQD GLVSSLFLHFGTEESV SERWC DTNSLSDQ LDMKKNPPFLSCWIKL
 NSINSK DGLSSLA MKA NVL SVGS IRL C LDGKSL DSKKVA ALKSLFGLPSEFSGT
 DTFREENIGLIEQMVTLLSS MTSGSDSSATAEMKPYLHEASQSL SLLKDGNIDDI
 SCKGV FVSPGNLMD DLLV SRNIED DLYQRGLEDKFWWECPTLPERLPQSSLP
 AKRKLPTLESSSRAKGENSSVDIPTQNSIQR GMGSVSLPPAPTRRDAFRQRKPNT
 SRPPSMHVDDYVARERSVDTAGNSNAITISRAGSSSG RPPSIHVDEFMARQR
 ERGQNPSTIVVGEAVVQVKNP
 TARDTEK VAGKPKQFKADP
 DDDL QGIDIVFDGEECEGPDDKLPFLQPDENLMQ
 PAPVMVEQNSPHSIVEETE
 SDANGSSQFSHM GTPVASNVDENAQSEFSSRISV
 SRP E MSLIREPSI
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 ISES GFIPAYHMPGSSQNSIDPRVGPQGFYSKSGQ
 QHTGHI HGGFSGRGV
 YEQKV
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 TRLMPP
 LPSAIPQYSSNPYASLPPRT
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 GTTEQQQSGPTIDHQSGNLS
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 ALEVFVQSEGETRFRRRLCQPFLYSHSSSNVLEVEAVVTNHLVVRGSYRSLSLIVYGNIVKDL
 LGQFNIEFDDSSLTNLVGSADGKLEDPLPLRCAFNRTEESLSSLNVLSPVVTLDLSVEVK
 QLQQMLKILELPNLGHEVHKVVHTLALAASFVTFDLESNAINQKHLTSGRNKDFKELN
 HGISEARKE LLELYETLQKSTNKSS ELS TCE IFMES DAD LASS KQL VEM LSP CFH FN RSS
 NFGHGQLPESKVNVLG NVALFLCSTKESCFHVNC GGMDQLAYLFHDQH QTNSIT TLL
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DKKFFEQS DSKNV ITAKASGVFD SGAAAN SPGFSASLYNNATGSSMPTDSRMNQNFYPK
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TEVQMSVPPGFQVQADYLSA FGSS TPGGSSR PPLP T P P FSSSPY NLPSFKANSQMSMY
NQNIGGTTDLPQAQSSIVPMIDARLGSVSASAAGVSYPPP HIMPPLV FNRPASIPATLYGNTP

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DmVR
MADRID

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SSI HITS

MAVDSAMELLFLDTFKHPSAEQSSHIDVVRFPCVVYINEVRVIPPVGVRASHSLPDNRAYGETSPHTFQLDLFFNNVSKPSAPVFDRLSLEYDENTSIIFRPNSKVNTDGLVLRGWYNCLTLAIYGSVDRVISHDRSPPPPPPPPQPSLKRNPKHADGEKEDQFNGSPPRPQPRGPRTPPGPPPPDDDEDDPVPLPVSGDKEEADPHREDYFEPISPDRNSVPQEGQYSDEGEVEEEQQEEGEEDDEDDVDVEEEDEDDEDRRTVDSIPEEEEDEEEEGEDEECEGEGDDGYEQISSDEGIADLERETFKYPNFDVEYTAEDLASVPPMTYDPYDRELVPLLFCSCPYKTTFEIEISRMKDQGPDKENSGAIEASVKTELLEDLYREDRGAKWVTALEEIPSLIJKGLSYLQLKNTKQDSLQQLVDWTMQALNLQVALRQPIALNVRQLKAGTKLVSSLAECKAQQVTGLLQAGVISGLFELLFADHVSSKLNAFKALDSVISMTEGMEAFLGRGRQNEKSGYQKLLELLLDQTVRVVTAQSAILQKCHFYEVLSEIKRLGDHLAETKSSLNHPSEPDHDTDAGLERTNPEYENEVEASMDMDLLESSNISEGEIERLINLLEEVFHLMETAPHTMIQQPVKSFPPTMARITGPPERDDPPVLFRLHSHHFLELVTLSSIPVTSAAHPGVLQATKDVLFQLAQSQKGLLFFMSEYEATNLLIRALCHFYDQDEEEGLQSDGVIDDAFALWLQDSTQLQCITELFSHFQRCTASEETDHSDLGTLHNLYLITFNPVGRSAVGHVFSLEKNQLSQLITLMEYYSKAELGDSKSKSVAYNYACILILVVVQSSSDVQMLEQHAASLLKLCKADENNAKLQELGKWLEPLKLNLRFEINCIPNLIEYVKQNIDNLMTPEGVGTLTALRVLCNVACPPPVEGQQKDLKWNLAVIQLFSAEGMDTFIRVLQQLNSILTQPWRLHVNMGTTLHRVTTISMARCTLTLKTMLELLRGGSEFKDMRVPsalVTLMHMLLCISIPLSGRLDSDEQKIQJNQDIIDILLTFTQGVNEKLTISEETLANNWSMLKEVLSSILKVPEGFFSGLILLSELLPLPLPMQTTQVIEPHDISVALNTRKLWSMHLHVQAKLLQEIVRSFSGTTCQPIQHMLRRICVQLCDLASPTALLIMRTVLVDLIVEDLQSTSDEKEKQYTSQTRLLALLDALASHKACKLAIHLINCTIKGDERYAEIFQDLLALVRSPGDSVIRQCVEYVTSILQLCDQDIALILPSSSEGSISELEQLSNLSPNKELMTSICDCLLATLANSSESSYNCLLCVRTMMFLAEHDYGLFHLKSSLRKNSALHSLLKRVSTFSKDTGELASSFLEMQRQILNSDTIGCCGDDNGLMEVEGAHTSRTMSINAELKQLLQSKEEESPENLFLLELEKLVLLEHSDKDDNLDLSDSVVGLKQMLESSGDPLPLSDQDVEPVLSAPESLQNLFNNRTAYVLADVMDDQLKSMWFTPFQAEEIDTDLLVKVDLIELSEKCCSDFDLHSELERSFLSEPSSPGRTKTTKGFKLGKHKHETFITSSGKSEYIEPAKRAHVPPPRGRGRGGFGQGIRPHDFRQRKQNTSRPPSMHVDDFVAAESKEVVPQDGIPPPKRPLKVSQKISSRGFGSGNRGGRGAFHSQNRFITPPASKGNYSRREGTRGSSWSAQNTPRGYNESRGQSNFNRGPLPPLRPLSSTGYRPSPRDRASRGRRGLGPSWASANSGSGSGSRGKFVSGGSGRGRHVRSFTR