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logo
TryEFV   MQYS.....ILSTQQADTNND.....QETHYDDEESKYNIKVYLNLLYEAEVRRILNCHFIPLAVRRRYATLPRNK..PYPSLYEHKILLQICDRFQEMNMIFAFVGTCLRDLV
TrEFV    .MYS.....AFSTQYGKGNNYRDKSHQEMNNDIDGEKYKIEIYLQLLHEAEVRRILNCHFIPFTVRRRYVNLSSSY..RGQSSHEHKVLLHICDRFQQINMAFTFMSTCLHHFV
RhEFV1   ...........MTTNEYIVE.NMLSPLSINLENNL.Y...DSEILFMNKEDANNKLKIFLELTLQCQIEAIQTCKTIPYHIRKQYSTCRT........LELHKILYTIVEKRNSNDVFFKLIANLIE.YI
RhEFV2   .MYS.....SLSTENDKRNNYSDRSNQKNSDDISGEKSKIDIYLKLLYEAEVRRILNCHFIPFSVRRRYATLPPYC..RNQSFPEHKVLLQICDHFQHMNMAFIFMSTCLRHFI
LhEFV    .MYS.....FLSTKQDNENH.VETVNQDNDSDIEGQKCKIDIYLKLLYEAEVRRILNCHFIPFTVRRRYATL.SHY..RNQSQYEHRVLLRICDRFQQMNAAFTFMSSVLSHFI
LcEFV    .MYS.....FLSTQQDKD.....KCNKDNYEDIDEHKFKIDVYLKLMYEAEVRRILNCHFIPFTVRRRYATLCPHY..RNQSHYEHKVLLRICDRFQQMNAGFTFISTCLRHFV
LbEFV    .MYS.....FLSTKQDNENNNMDTSNKKKCDDSEEQKSKINIYLKLLYEAEVRRILNCHFIPLTVRRRYATLPACH..RNQSIHEHRVLLRICDHFQQMNMVFTFLSTYLRHFF
LhFV1    MMNENKPAAAVPNTDEMVADDDLIKSLDIEIS..SGLLES...LCLQECENVEETISLYIQMSFEVGLERVRNCKFIPLNIRNKYIQSQKNK.......RQHKLLLNIVSDCNDYYLYFLIIHYV.MEFF
LhFV2    ..........................................................................................................................
LbFV     ...................MS.RTIDKLLLQFDQTI.TDNNVPELFRIDKQSAKERMKLFLEITLQCQIQEINDCICIPLNVRKTYNKNKT........SALHKLLHNIVIKYNSSKIFYNCLATCCN.TM
CcFV1    ........MGLERTGETM.......TLASFDDVGEEILREIN.APYSSDNNRKTMNKLYNKLQLMLMDEEILTCPLIPLIIRKQYLGFKEKKKKRKISLKQYQLILNFFIEYRKLSLNYAILVQLLS.VA

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TryEFV   IPRIAVTVERQNYVTFILRTVRNAETFLRKYPFRPDFYERILRHSIKCKIAADDHDGFKSLEGEMPLPLQIMWDFLKEQFSVLSI.FLLDNVEFT......DDLCITDMRETYD...............KL
TrEFV    IPRLCIIGLQKKYIAFILPIVRNAEIFLRKYPFRHDFYERLLRHTIKYAIKGDTGDLNQILEEEMPLPLQIIWDFTKEQFSVFSM.FVLENCELL......DDSNIIDIRKMHN...............KL
RhEFV1   INNLKCVEN........NFLNQRCILFFQNYTNRPQYFNYLLLKTISEPRNNFSSLE.HDIRTNCPLPIVVLYDLVLDLMKVF.INN.L...............NNIAINETDDDETIEFKNFEQFKFEY
RhEFV2   IPRLSITG.QYKYIAFILPIVRNAETFLRKYPFRHDFYERLLRHTIKNTINEDSKDVNHIFEKEMPLPLQIIWDFIKEQFSLFSM.FVLENVELL......DDSNIIEIRQMHD...............DL
LhEFV    IPRLSVTGQQSYYISFILPFLRKAEIFIRKYPFRHDFYERLLRHSIKCTIKEESKDPYSNLEEEMALPFQITWDFIKEQFSVFSM.FVLENVELS......DDSNIVEIRQMYK...............DL
LcEFV    IPRLSVTCQELNYFSFILPFLYKAEIFIRKYPFRHDFYERLLRHSIKHTIKEDPKDPYKILEDEMALPLQITWDFIKEQFSLFSM.FVLENVELS......DDSNIVEIRQMYN...............DL
LbEFV    IPRLTVTSQQNNYIAFILPFLSKAEIFLRKYPFRHNFYERLLRHSIKRSIKEDIQDPYQILDEEMSLPLQIIWDFVKEEFSLFSM.FLLENVELS......DDSNTIEIRQMYD...............EL
LhFV1    LKKMTENKSN...NKLQCNLLNKISEWIIKYPYSLNFYNYVLHNAFKGDRKELDFDKLLIV........YVGMDFVKAFISNIIECLAIESDKLSKYQREVDDATTMTISND.D...............VI
LhFV2    ..........................................................................................................................
LbFV     LK...NKNE........SFFWKTSRDFFLNYPNSKKYFERLLFRVTYGKNVNFDLTE.E.L.EKLPPCFLVIYDYLENYFHLCFKNN.LTHL.....EESISSLPKIEIDEKNNN.........IFINDL
CcFV1    SKTFSEKMNEYNVNKYALFASNFFATFTENYPTKHSYQMLILKKTMSLETPETCS......LAPTDVIVQMVYEFIQELAIEFLNIFFMKKWK........DDPQAV......E..............EL

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TryEFV   Q..........SQVPELEELYYQQQSSNDATD..DEEEMQNVDDE...K..MANEPNDVDDEAEVVK......NEKKIDELS.....................................D........
TrEFV    K..........TKVPELEELFDQNQTAQ..HIDDNYERTENLNSK.LKN..LGSEIK.VEKLIDVNNLEKYVDVEKN.VK.....................................INNVNNIDTLNNNA
RhEFV1   LNTNNFKNFIK...........NNKKKC........KT..SQEEDKIAA...D...............SQE.............................EDKIA............S.........
RhEFV2   Q..........NKVPELEEMFDQNQTSH..PTKDAWDKAENINKE.LKI..SDSDIK.VEELSEVKNQAKRVDNEKNIIK.....................................LNNVSEFKNVNNTL
LhEFV    Q..........NHVPELEELFDNNQSSCYNENDNNCERKKHLNNDESKV..LGNENV.VKNSYEQCNKEKKHLNNDELKVLS.....NENIIRNS...YEQCNEEDTAYNVKCNVKSDDLYQLKNLNNNV
LcEFV    Q..........NHIPELEELFYRHQTF..NSSDDDYEKKKNPNNK.LEV..FDSEKK.IKTLHKGNKKENRAENEKKIDILN.....................................NFKEHENLNSII
LbEFV    Q..........NQVPELEELFEQQQSYNHKE...YYEAEEKLNND.LKV..SDSERNDLINESKLTKKENLGKIDDNGKNVN.....NNDIIPNN...T...................................
LhFV1    I..........EDDPN..VIFKDDL..C...KLVNYVKSKQINNISINEIEMVNLNK.IDVQKDDVASEKSTTMEHKIDDVV.....................................DV......V
LhEFV    ..........................................................MEHK.IDDVVDVVAPEKSTTMEHKIDDVV.....................................DV......V
LbFV     IDDSEYEIFLTEKQQEYSEMLNNNTNNN........DDNKNIDETNIAY...D..............TIKKSMNEENSDNLNINYSQNNNDNDNDYTFIENCDNDDIL............KDLFTINSKM
CcFV1    L..........DANYKLDEDYDSSSS...HSDDDDYDSSSPEDDDEFSPSST..PS..V.......TTGERGDLGENGDLGE.....NGDLGENG.......................DLGEHGDLGE..

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TryEFV   ....V.....................................................DDENNVDNDKSS...NYVNSIYCEAKGRMSFSSNDDGKNSSVNQLYSDHL
TrEFV    QTNEVE.....................................NVKHIK.DMIP......NSIKEKDNMDINIKS....NNVENCSETEENMFNSNVNNCEAFSINLLESDYL
RhEFV1   ...DSQEDD.................................KIAADSQE...DDKNAVDSQEDDKNAADSQEDDKNAA...DSLEEDKNAADSLEEDKIA..ADGQEDEIEIFNNYLK
RhEFV2   QPNDVG....................................NFKNINNEIIS......NSVRDRKNVENNIKT....NNIDICCEIEGNMKVSSIHDCEAFSMNSLESDCL
LhEFV    QQTDVD....................................NVN.......Y......NSIDNNSNNNYNTKT....NNVIIHQETKESINISNIGDNESFSIDLLNNDYL
LcEFV    QQNNVL....................................NN.................DKIIYNNNNTLT....NNVYNYDKSKESINISTINDSKAFSIDILNNDYL
LbEFV    ..........................................................ENCKNGKNNIET....NNVNVYHE...EKEISTISDCEAFPIDLLNSDYL
LhFV1    APEKS.....................................TTMEHKID.......................................................................
LhFV2    ESMAL.....................................LNINSEALV......EDADDDDDDD.........................DDDASTSINELNRNV.
LbFV     KNTETKEDEEMIKEDEEMIKKDEEMIKKDEEMIKKDEEMIKKDEEMIKEDEEEMIKKDEEEMIKKDEEMIKKDEEEENKKDEEENKKDEEEENKKDEEEENKKDEEEEN..K..KDEDEKRLKDWNNILE
CcFV1    .NGDLG....................................EHG.................DLGEN.........................GDPGDASIFAITASFPPTT

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TryEFV   TMEHL...RKVVLHPPSNYNVGDLHLSLVN.....
TrEFV    TLEHL...QNVLLL.SSIYDIYDFPHFINQLVESSSSYGSSLSF.........
RhEFV1   ....................KEAFRFK.........
RhEFV2   TLESL...QNVLVFSSSIYDIYDFPHFINQWIDSSSSCASSMLSLIEENDANEV
LhEFV    TLERL...KKFVLLSPYIYEIYDFPCFINQLIESSSSCGSSLRK....EDDDYI
LcEFV    TLEHL...NKVIFLSPYIYDIYDFPYFINQLIDSSSSCGSSFKK....EDNDEI
LbEFV    TLECL...KKVGLLSACSYDILDFPHFIHQLIESSSSCGSSISSSFEKVDDD..
LhFV1    ....................................................
LhEFV2   .............FMEYDYDE...................
LbFV     SINEIELEDKTKLFEERNYKECFFDNHDNVFIKKRRLR...............
CcFV1    PLPQLNFDSGVELL.......................................
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X acidic (−)
X basic (+)
X polar uncharged
X hydrophobic nonpolar