

MEFEELK...DFFERSEKEL...L...FK...EYE...TE...E...ELI

MNLKKVKRIIDMFFKEKNLDELTLAFKRSLILTENEYNELVRRPNLSFIDKDP...WI 55

MNLKKVKRIIDMFFKEKNLDELTLAFKRPLIITENEYNELVVRPNLSFEDKDP...WV 55

MNLKKVKRIIDMFFKEKNLNELTLAFKRPLIVSENEYNELVGRPNLSFVDKDP...WV 55

MGFREVKRILNIFLKDENIEELTLKFENPLKITLDEYNELTRNFKLIDAKNDC...WI 55

MSYFYENIGERKISFKEVKKIIDLFFEDSNIQELSLKFKMSFEINEEYQQLIE...L 55

MDLFFEDSI...IQELSLKFKISFEINEEYQQLIE...L 34

MSYFYGNIGERKISFKEVKKIIDLFFEDSNIQELSLKFKISFEINEEDYRQLIE...L 55

MFFEDSNIQELSLKFKISFEINEEDYRQLVE...L 32

MEKQDLEKIESDIINDWTEADDLDDALDFLFMEK...VSEFKIKFKDPLKVTEEYRELIGNYDSSNSVSSN...GI 71

MEFEDLDVVLVYVFFENPEMKSFEFEFKELFETTENGFKYLVGVPDSRNKIKSS...SE 55

MEFEDLDVVLVYVFFENQEMKSFEFEFKELFETENGLRYLVGVPDSRNKIKSN...SE 55

MEFEDLDVVLVYVFFENPEMKSFEFEFKQLFETTESGLRYLVGVPDSRNKIKNN...NE 55

MIK...MLIKDLKNVLNVFFANQIKELSTEFKEPLLTEKELEEVGTGNYDYKNESRYE...DI 58

MVKKMEFEELKSIIDKFFQDSTIIRINLRFNKEVIIVSYNQFEELIRNGDLTHRYADK...NI 59

MEFEELKSIIDKFFQDSTIIRINLRFNKEVIASYDQFEEIVKDADLLHRYDDR...NI 55

MEFEELKSIIVDKFFKDKTIIRLNLRFDKVEVITYDQFQEIIRBGDLLHRYSD...KI 55

MEFEELKSIIVKFFQDQTIVRMNLMLNKEIIVSYNQFEEIIRKDGDLTYRYAEK...NR 55

MK.FETLSQIVD...QVFEDTTVDELQLRFRFREDVELNESQFKELIGQGTTLVTGYEDY...GT 55

MK.YEVLNQIVN...QVFEDSTVDELQLRFRFREDVEVSPEEFKQLIGQGTTLVTGTEDY...GV 55

MHICKSEVKGKMSMQNLSQLESYMKKFFEDQTAKEMVVLFSPEIVITEEYRQLISGGRYIAGTENY...GM 69

MNYKELEKMLDVIFENSEIKEIDLFFDPEVEISKQEFEDLVKNADPLQKVVG...NY 55

MNYKELEKMLDVIFENSEIKEIDLFFDPEVEISKQEFEDLVKNADPLQKVVG...NY 55

MKKDLYMRKIRYKRSDRKMKYKTLKDMLSPIFENSELWEVDLIFSPEVELDEQFKELIQNAILLQVINN...KI 73

MNYKELKDMLSPIFENSELWEIDLVSPELEITEEFKELIQNAILLQVINN...KI 55

MKKMKFETLKNMINPVFENSEIWEVDLIFSEEIELTEDEYKDLTKNADPLQEIINDTT...GVNI 62

MDTHEFHKLLIKVVDLFLIEDRIKEFELKLN...TTLDELEFEELIGKPDSSNSAENN...GI 56

MKFKELEKLVNIFSKNAEIKETIKTNSIELSGDEFYELTKDKKVFNTSVKN...AI 55

MIKNMRLQDFLNEVFELAKEYTRNSGEKKNIKRIIRKMIIEKKIIEGIEKYYTYFYLYLHGDLDTKNEIE...FT 73

MNGQELSQKIISVVRDFLNDQFVQRKVLKTKKELTFSEKQLKEIVEKIMEYYGINSNN...IN 61

MTNIIMVKNRMVNTVVRKEVTKLYYDIKRFFNDPNAKLLIKYDKPIIVRKSAFFSWIAGTCIYEHENTY...Y 71

MADMTLRQFCERYRKGDFLAKDRETQIEAGWYDWCDDKALAGRLAKIWGILKGITSYIILDNYRVWFKNNCPMVGPLYDDVRFEPDDEEQRDELYFGVAIDDKR 105

MEKIKLICLRINNDELITTDKDEWLKFIKR...HRGKVSS... 37

MDEIEGLSDLPMPRFIWGFAVAAGRGDVLHDEFEYLTHTTRTPFTCRVVELEDVPSDNEEGDIDGRIVHPDPPRR...MFYITD 82

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DEFEYENDNIVKLLYKPD	KKIYLLKELSEWRKK	
TSDEFV.YYELSNKVVKLIHYFKED	GFINILEIDLFREKR	95
TSDEFV.YYELSNRVVKLIHYFKED	DIINILEIDLFREKR	95
LSDEFV.YYELSNTLVKLIHYFKEK	GFIHILEIDLFREKR	95
SINMF.M.YYDLSKTVVKLIHYFSYD	DTINVYEINLFHEKR	95
AFSQFI.YSSNDNIEIKNTKELTDN	EKALLYEIQILRTKKS	96
AFSQFI.YPSNDNIEIKNTKELADN	EKALLYEIQLWRTKKS	75
AFSQFI.YPLNDNIEIRINTMELTDN	EKDLLYEIQIVRTKKL	96
ALSQFI.YPLNDNIEIRINTKELADN	EKDLLYEIQILRTKKL	73
TIDQYT.YDEDDIMYKLEFTYRKE	NKIYIYEVQGWREKKK	112
IIIEFI.YYQNDNILKLTFFYTKGT	NKIYIRKIIYGWREKRLENEDEENNI	105
IIIEFI.YYQNDNIVKLTFFYTKDT	NKIYIRKIIYGWREKRSESENEEDNI	105
IIIEFI.YYQNDDIVTKLIFYYTKGT	NRIYIRKIIYGWKEKRLESEDEE	102
HMLEYN.YREFNNIISKLEITYIKK	NKIAITEIHLWRKYEK	99
TSDIYE.YREN...INSIIDYYWKD	NKICILEIDFWRSS	94
RTDICE.YRKN...INSIINYVKD	SKVYIVEIDFWRSS	90
TSDVYE.YREN...INSIIDYYWKD	NKIHIVEIDFWRSS	90
TVDIYE.YRNN...IHSIINYFWKD	NKVCIIIEIDFWRSR	90
ITDIYE.YWETGKQYVKFLIVYKKD	EKIYIMELQMWRELKLSKP	100
ITDIYE.YWEEGKRYVKMLLVYKKD	EKYVVMELQMWREIKL	96
INEIFE.FHESQKQYVKMLLVYKDT	DKIYINRIDCWRETSFLNEDEEDNI	119
ITETFE.WWFENQYLEFELDYYVKD	EKIFVLEMHFWRKIRK	96
ITETFE.WWFENQYLEFELDYYVKD	EKIFVLEMHFWRKIRKLE	98
YSDIYE.WWFENQYLELEIDYYRYD	DKIFVLELHFWRREEKK	114
YSDIYE.WWFENQYKLQVKYKDT	EKIYLRRELYFWREVKK	96
YTDIYE.WWFENNQYLELEIDYYRQN	DKIYLLLELHFWRKVKK	103
FIDEYS.YDASENAIKKLFVEYVRQPEFKY	TVLSIKGVNDWVRE	99
FTVESE.QNEFT...KFLFKYEEID	DIAYVKEIKMWREV	90
FEDEVNKEFKIKIIVKAYFKVKIED	NEFKLINVKFEKSVKSSIS	117
FNDKIE...FRFDYDFGTVFGIYHETR...Y	IRLFFEKRRNNMLKLTKIELEK	107
YEDDFG.....QYVENKLDYEERK..KE	DVIEISKIILSRLSK	107
REKKYVITARNDYENECGFNNVREVRFINGWE	DELKNEEFYKAREKKRQEMEEANNKFAEIMQRADEILWNLKED	182
.IEQN...WKIPGNKLQKALEYSFDE	LYKFKQKENRRETD	74
AGMALFAMFDKMPDKQKLIKICDD	AIANWMLRREFLEDEEDEDDEE	130

- X non conserved
- X similar
- X ≥ 50% conserved