

SI Fig. 4

MA (S, T) L			
761U	MSSILRSLAAF	KRHREQPTAPSGSGGAIKGLKNTIIVPVPDGTVITTRSNLLFRLVYIIGNPDTPLSTSTGAIISLLTLFVESPGQLIQRIADDPDAVFK	100
776U	.....	.....T.....	100
M252A	.....K.....	.....T.....	100
CdiPV	A..K..TL..	T.D..PLA.....R.I.HV..LI..SS.V..R..D..RLV.D.KINGPKL..IL..I.S.....I...VSI	100
DmoPV	.AT.....L..	NKDRTPLIA.....R.I.HV.V.....SS.V..R..D..RLA.D.YISGPKL..VM..I.S.....S.....T...VSIR	100
MeaPV	.AT.....L..	NKDK.PIT.....R.I.HI...I..SS.....R..D..RL.....VSGPKL..L.GI.S.....T...VSIR	100
PprPV	.AT..K...L..	NKDKAPTA.....R.I..V...I..SS.I..R..D..RLA.D..ING.KL..VM..M.S.....T...VSIR	100
RinPV	A..K...L..	AKDK.PLAA.....R.I.HV.V..I..SS.....R..D..K.MV.D..ISGPKL..L..I.S.....T...ISI	100
PdiPV	A..K..SL..	KT.....PLA.....R.I.HV..LI..SS.V..R..D..RMV.D.EVSGPKL..VL..I.S.....I...ISI	100
		QxW (I, V) xxxK (A, C) x	
761U	LVEVIPEAGNPGELTFASRGINLDKQAQYFKLAEKNQGYVSLGFENPPNDDITSSPEIFNYILASVLAQVWILLAKAVTT	APDTAAEAENRRWIKLM	200
776U	.....	.....	200
M252A	.....R.....	.....	200
CdiPV	.....SINSACG.....AS..SE.DEF..IVDEGSKAQQLGWL..KDIV.IEVDNA.Q..IL..I..I.....	.....DS.M.....YT	200
DmoPV	.....QSEKSLSG.....A.MEDE.DD..SIQAGEEGDTRGTHW..KEIVEIEVQD..E..IL..I..I.....	.....DS.T.....YT	200
MeaPV	L..VQSDQSQSG.....T.MEDE.D..SHDDPSSSDQSR.GW..KEIS.IEVQD..G..M..GTI..I.V.....	.....DS.L.....YT	200
PprPV	...VQSTRSQSG.....AD..NE.DM..STEGPSSG.KKRINW..REII.IEVQD..E..ML..I..I.....	.....DS.L..V.YT	200
RinPV	...VQSDKTQSG.....TSM.DE.DR..TYE.P..GEERQ.YW..RDIQ.IEIQD..G..M..TI..I.....	.....DS.L..V.YT	200
PdiPV	.....SINSTCG.....AS..AE.DEF.GTMDEGSKDHNQMGWL..KDII.IEVNDA.Q..IL..I..I.....	.....DS.M.....YT	200
		FxxT (I, L) (R, K) Ø (G, A) (L, I, V) x	
761U	QQRVDGELRLSKGWLDLVRNKIASDITIRRFMVALVDIKRSPGTRPRIAEMICDIDNYIVEAGLAS	FLLTIKFGIET	RYPALALHEFSGELATIEGLM 300
776U	.....	.....	300
M252A	.....	.....	300
CdiPV	...V..F.MN.I..I..R..E.LSL.....I.....NK.....	.....I.....M...G.....T...S..	300
DmoPV	...V..F..D...A..R..E.LSL.....I.....T.NK.....T.....	.....I.....M...G.....T.V.S..	300
MeaPV	...V..F..ERK..V..R..E.LSL.....I.....T.NK.....T.....	.....I.....M...G...A...S.L.S..	300
PprPV	...I..F..D...A..R..E.LSL.....S.I.....T.NK.....	.....I.....M...G...A...S...S..	300
RinPV	...I..F..D...T..RV.E.LSL.....I.....T.NK.....E.E.RDKQTRS..R.PR..--ETP..QL..L..IMPE.EVSRE.GQNPR..AQ..SA..AL	.....I.....M...G...A...S...S..	300
PdiPV	...I..F.MN.I..I..R..E.LSL.....I.....NK.....	.....I.....M...G.....T...S..	300
		FxxxxYpxxxØSØAMG	
761U	KLYQSMGEMAPYMVILENSIQTR	FSAGSYPLLWSYAMG	VGVELERSMGGLNFRSFFDPTYFRIGQEMVRRSSGMVNSSFARELGLSDHETQLVVSQIVNS 400
776U	.....	.....	400
M252A	.....	.....	400
CdiPV	M...Q...T.....V.NK.....	.....N.....G..Y..A.....A.K.S.AL.A...ITKE.A...E.ASK	400
DmoPV	N...Q...T.....NK.....	.....N.....G..Y..A.....A.K.S..L.A...ITAEDAK...E.AAQ	400
MeaPV	N...Q...T.....NK.....	.....N.....G..Y..A.....A.K.S.TL.S...ITAEDAR...E.AMH	400
PprPV	N...QL..V.....NK.....A.....	.....G..N.....G..Y..A.....A.K.S.VI.A...ITAE.AK...E.ASQ	400
RinPV	N...Q...L.....NK.....A.....	.....I.....N.....G..Y..A.....A.K.S.NL.S...ITEE.AR...E.AAY	400
PdiPV	V...Q...T.....V.NK.....	.....N.....G..Y..A.....A.K.S.T..A.F.ITKE.A...E..SR	400
761U	GGESGIPKFDGFRANPTTFLGTKDNINDRGEDQNSNISGLPGPL-LPSRDNLNSGDSYGINSNG--VKNVSDKLNIEGVPDHDVSSAME--ELRRLVEST	.....D.....-.....D.....--.....--.....	495
776U	.....	.....K.....S.V.....THP.....ADD.....N..S..IS.....	495
M252A	.....	.....	495
CdiPV	TT.DRTIRAT.PKQSQI..HSERS--EVANQ.PPT.NKRSENQ-GGDKYPIHFS.E--RLP.YTPDVN.SEWS.SRYDTQIQDDGND--DD.KSM.AI	.....	493
DmoPV	ANDDRANRAI.PKQ.QIS..HPDRG--ASTPG---NI.RANE-GDGSTRMKR.GNIATPK.TSIDQT.TT.SKDTLDIDEQ.DNTDDPISIQKSA.AL	.....	493
MeaPV	TT.DR.SRAV.P.QAQVS..HGDS--ENELPGLGGKEDRRV	KQ-GRGEARESRET-.SSRASDARAAHPPTSMPL-DIDTA.E.GQDPQDS..SADAL	495
PprPV	A.DERTARGT.P.QAQVS..QH.TG--EGESSAPATRE.VKAAIPNG.EERDRKQTRS.RPR.--ETP..QL..L..IMPE.EVSRE.GQNPR..AQ..SA..AL	.....	495
RinPV	TSDDRNRTS.PKQSQI..R.DQG--SEAQHSASKKDEARA.Q-VKKETRTS.KSD-KHKE.TDKEP..SS-AMTLIDVDTTLEADTDPL.SKKSA.AL	.....	495
PdiPV	TT.DRTTRAT.PKQSQI..HSER.--EAPNQLRPP.TMKSEFQ-GGDKYS.QLI.D--RL..YTSVQQ.SEWD.SRQITQLTQEGDHD--NDQQSMDGL	.....	493
761U	NRIDT----KQPEASGVTNH-YNDTDLK	.....	519
776U	.....	.....	519
M252A	.....K...P.....R	.....	519
CdiPV	AKMRMLTKMLS..GT.EDNSPV.S.KE..N	.....	523
DmoPV	AKMRAMAKLLENQGPRD..A.V...K...G	.....	523
MeaPV	L.LQAMAGILEEQGSDTD.PR.V..R..D	.....	525
PprPV	F.LQAMAKILEDQ.EGEDNSQV...K...G	.....	525
RinPV	L.LQAMAGILGDSTLGNDSLRA..K..N	.....	525
PdiPV	AKMRQLTKILN.SDTN.EVSPAH..R...S	.....	523