

	1	10	20	30	40	50	60
NP_068576.1	MSSSSWLLLSLVAVTAAQSTIEEQAKTFLDKFNHEAEDLFYQSSSLASWNNYNTNITEENVQ						
XP_011543854.1	MSSSSWLLLSLVAVTAAQSTIEEQAKTFLDKFNHEAEDLFYQSSSLASWNNYNTNITEENVQ						
NP_001358344.1	MSSSSWLLLSLVAVTAAQSTIEEQAKTFLDKFNHEAEDLFYQSSSLASWNNYNTNITEENVQ						
XP_011543851.1	MSSSSWLLLSLVAVTAAQSTIEEQAKTFLDKFNHEAEDLFYQSSSLASWNNYNTNITEENVQ						
XP_011543853.1	MSSSSWLLLSLVAVTAAQSTIEEQAKTFLDKFNHEAEDLFYQSSSLASWNNYNTNITEENVQ						

	70	80	90	100	110	120
NP_068576.1	NMNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKQLQALQONGSSVLSSEDKSKRLNTIL					
XP_011543854.1	NMNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKQLQALQONGSSVLSSEDKSKRLNTIL					
NP_001358344.1	NMNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKQLQALQONGSSVLSSEDKSKRLNTIL					
XP_011543851.1	NMNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKQLQALQONGSSVLSSEDKSKRLNTIL					
XP_011543853.1	NMNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKQLQALQONGSSVLSSEDKSKRLNTIL					

	130	140	150	160	170	180
NP_068576.1	NTMSTIYSTGKVCNPDNPQECILLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY					
XP_011543854.1	NTMSTIYSTGKVCNPDNPQECILLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY					
NP_001358344.1	NTMSTIYSTGKVCNPDNPQECILLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY					
XP_011543851.1	NTMSTIYSTGKVCNPDNPQECILLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY					
XP_011543853.1	NTMSTIYSTGKVCNPDNPQECILLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY					

	190	200	210	220	230	240
NP_068576.1	EEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHL					
XP_011543854.1	EEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHL					
NP_001358344.1	EEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHL					
XP_011543851.1	EEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHL					
XP_011543853.1	EEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHL					

	250	260	270	280	290	300
NP_068576.1	HAYVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPFQOKPNIDVTDAMVDQ					
XP_011543854.1	HAYVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPFQOKPNIDVTDAMVDQ					
NP_001358344.1	HAYVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPFQOKPNIDVTDAMVDQ					
XP_011543851.1	HAYVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPFQOKPNIDVTDAMVDQ					
XP_011543853.1	HAYVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPFQOKPNIDVTDAMVDQ					

	310	320	330	340	350	360
NP_068576.1	AWDAQRIFKEAEKFFVSVGLPNMTQGFWENSMLTDPGNVQKAVCHPTAWDLGKGDFRILM					
XP_011543854.1	AWDAQRIFKEAEKFFVSVGLPNMTQGFWENSMLTDPGNVQKAVCHPTAWDLGKGDFRILM					
NP_001358344.1	AWDAQRIFKEAEKFFVSVGLPNMTQGFWENSMLTDPGNVQKAVCHPTAWDLGKGDFRILM					
XP_011543851.1	AWDAQRIFKEAEKFFVSVGLPNMTQGFWENSMLTDPGNVQKAVCHPTAWDLGKGDFRILM					
XP_011543853.1	AWDAQRIFKEAEKFFVSVGLPNMTQGFWENSMLTDPGNVQKAVCHPTAWDLGKGDFRILM					

	370	380	390	400	410	420
NP_068576.1	CTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS					
XP_011543854.1	CTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS					
NP_001358344.1	CTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS					
XP_011543851.1	CTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS					
XP_011543853.1	CTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS					

	430	440	450	460	470	480
NP_068576.1	IGLLSPDFQEDNETEINFLKQALTIIVGTLPTTYMLEKWRWMVFKEIPKQWMKKWWEM					
XP_011543854.1	IGLLSPDFQEDNETEINFLKQALTIIVGTLPTTYMLEKWRWMVFKEIPKQWMKKWWEM					
NP_001358344.1	IGLLSPDFQEDNETEINFLKQALTIIVGTLPTTYMLEKWRWMVFKEIPKQWMKKWWEM					
XP_011543851.1	IGLLSPDFQEDNETEINFLKQALTIIVGTLPTTYMLEKWRWMVFKEIPKQWMKKWWEM					
XP_011543853.1	IGLLSPDFQEDNETEINFLKQALTIIVGTLPTTYMLEKWRWMVFKEIPKQWMKKWWEM					

	490	500	510	520	530	540
NP_068576.1	KREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFQEQEALCOAAKHGEPPLH					
XP_011543854.1	KREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFQEQEALCOAAKHGEPPLH					
NP_001358344.1	KREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFQEQEALCOAAKHGEPPLH					
XP_011543851.1	KREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFQEQEALCOAAKHGEPPLH					
XP_011543853.1	KREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFQEQEALCOAAKHGEPPLH					

	550	560	570	580	590	600
NP_068576.1	KCDISNSTEAGQKL	FNMLRLGKSEPWT	LALENVVGAKNMN	VRPLLN	YFEPLFTWLK	DQNK
XP_011543854.1	KCDISNSTEAGQKL	L.....	.....	.....	.....	.....
NP_001358344.1	KCDISNSTEAGQKL	FNMLRLGKSEPWT	LALENVVGAKNMN	VRPLLN	YFEPLFTWLK	DQNK
XP_011543851.1	KCDISNSTEAGQKL	FNMLRLGKSEPWT	LALENVVGAKNMN	VRPLLN	YFEPLFTWLK	DQNK
XP_011543853.1	KCDISNSTEAGQKL	FNMLRLGKSEPWT	LALENVVGAKNMN	VRPLLN	YFEPLFTWLK	DQNK

	610	620	630	640	650	660
NP_068576.1	NSFVGWSTDWSPY	ADQSIKVRISLKS	ALGDKAYEWNDN	EMYLFRSSVAY	AMRQYFLK	VKN
XP_011543854.1	.....	.....	.....	.....	.....	.....
NP_001358344.1	NSFVGWSTDWSPY	ADQSIKVRISLKS	ALGDKAYEWNDN	EMYLFRSSVAY	AMRQYFLK	VKN
XP_011543851.1	NSFVGWSTDWSPY	ADQSIKVRISLKS	ALGDKAYEWNDN	EMYLFRSSVAY	AMRQYFLK	VKN
XP_011543853.1	NSFVGWSTDWSPY	ADQSIKVRISLKS	ALGDKAYEWNDN	EMYLFRSSVAY	AMRQYFLK	VKN

	670	680	690	700	710	720
NP_068576.1	QMILFG	EEDVRVANLKPRI	SFNFVFTAPKNV	SDIIPRTEVEKA	IRMSRSRINDA	FRINDN
XP_011543854.1	.....	EEDVRVANLKPRI	SFNFVFTAPKNV	SDIIPRTEVEKA	IRMSRSRINDA	FRINDN
NP_001358344.1	QMILFG	EEDVRVANLKPRI	SFNFVFTAPKNV	SDIIPRTEVEKA	IRMSRSRINDA	FRINDN
XP_011543851.1	QMILFG	EEDVRVANLKPRI	SFNFVFTAPKNV	SDIIPRTEVEKA	IRMSRSRINDA	FRINDN
XP_011543853.1	QMILFG	EEDVRVANLKPRI	SFNFVFTAPKNV	SDIIPRTEVEKA	IRMSRSRINDA	FRINDN

	730	740	750	760	770	780
NP_068576.1	SLEFLGIQPTLGP	PNQPPVSIWLIV	FGVVMGVIVVG	IVILIFTGIRD	KKK	RSGENP
XP_011543854.1	SLEFLGIQPTLGP	PNQPPVSIWLIV	FGVVMGVIVVG	IVILIFTGIRD	KKK	RSGENP
NP_001358344.1	SLEFLGIQPTLGP	PNQPPVSIWLIV	FGVVMGVIVVG	IVILIFTGIRD	KKK	RSGENP
XP_011543851.1	SLEFLGIQPTLGP	PNQPPVSIWLIV	FGVVMGVIVVG	IVILIFTGIRD	KKK	PTD
XP_011543853.1	SLEFLGIQPTLGP	PNQPPVSIWLIV	FGVVMGVIVVG	IVILIFTGIRD	KKK	GL.....

	790	800
NP_068576.1	YASIDISKGENNP	GFQNTDDVQTSF
XP_011543854.1	YASIDISKGENNP	GFQNTDDVQTSF
NP_001358344.1	YASIDISKGENNP	GFQNTDDVQTSF
XP_011543851.1	TAIILKD.....	.....
XP_011543853.1	..	.....