



C

	501				600
	<b>At1g32490</b>	(411)	<b>KE</b> SRQVQLVLEPGSGKTKTQ	<b>POV</b> YGLAAYTKR	<b>IK</b> YCTQPRRVAAMSVAAARVAQ
	<b>At2g35340</b>	(460)	<b>KE</b> SRQVQLVLEPGSGKTKTQ	<b>POV</b> YGLAAYTKR	<b>IK</b> YCTQPRRVAAMSVAAARVAQ
	<b>At4g16680</b>	(235)	<b>KE</b> SRQVQLVLEPGSGKTKTQ	<b>POV</b> YGLAAYTKR	<b>IK</b> YCTQPRRVAAMSVAAARVAQ
	<b>C.elegansM064</b>	(377)	<b>KE</b> SRQVQLVLEPGSGKTKTQ	<b>POV</b> YGLAAYTKR	<b>IK</b> YCTQPRRVAAMSVAAARVAQ
	<b>H.sapiensCDC28-1</b>	(412)	<b>AK</b> NRQVQLVLEPGSGKTKTQ	<b>POV</b> YGLAAYTKR	<b>IK</b> YCTQPRRVAAMSVAAARVAQ
	<b>S.cerevisiaePRP2</b>	(236)	<b>KE</b> SRQVQLVLEPGSGKTKTQ	<b>POV</b> YGLAAYTKR	<b>IK</b> YCTQPRRVAAMSVAAARVAQ
	<b>S.pombeCDC28</b>	(384)	<b>NE</b> SRQVQLVLEPGSGKTKTQ	<b>POV</b> YGLAAYTKR	<b>IK</b> YCTQPRRVAAMSVAAARVAQ
			<b>I</b>	<b>la</b>	
			<b>G424D</b>		<b>R462C</b>
	<b>At1g32490</b>	(508)	<b>DL</b> ASYSVIVLEDEAHERTLSDTLL	<b>PQV</b> YKDLARFRD	<b>IKL</b> LISATMDAERKPSDF
	<b>At2g35340</b>	(557)	<b>DL</b> ASYSVIVLEDEAHERTLSDTLL	<b>PQV</b> YKDLARFRD	<b>IKL</b> LISATMDAERKPSDF
	<b>At4g16680</b>	(332)	<b>KL</b> ASYSVIVLEDEAHERTLSDTLL	<b>PQV</b> YKDLARFRD	<b>IKL</b> LISATMDAERKPSDF
	<b>C.elegansM064</b>	(475)	<b>DL</b> ASYSVIVLEDEAHERTLSDTLL	<b>PQV</b> YKDLARFRD	<b>IKL</b> LISATMDAERKPSDF
	<b>H.sapiensCDC28-1</b>	(510)	<b>DL</b> ASYSVIVLEDEAHERTLSDTLL	<b>PQV</b> YKDLARFRD	<b>IKL</b> LISATMDAERKPSDF
	<b>S.cerevisiaePRP2</b>	(336)	<b>KL</b> ASYSVIVLEDEAHERTLSDTLL	<b>PQV</b> YKDLARFRD	<b>IKL</b> LISATMDAERKPSDF
	<b>S.pombeCDC28</b>	(482)	<b>DL</b> ASYSVIVLEDEAHERTLSDTLL	<b>PQV</b> YKDLARFRD	<b>IKL</b> LISATMDAERKPSDF
			<b>II</b>	<b>III</b>	
			<b>A520T</b>		<b>S549F</b>
	<b>At1g32490</b>	(607)	<b>GD</b> LVFVPSQREIETAPR	<b>IKH</b> YGLCGLRILILIQ	<b>YAN</b> LISLQAKI
	<b>At2g35340</b>	(656)	<b>GD</b> LVFVPSQREIETAPR	<b>IKH</b> YGLCGLRILILIQ	<b>YAN</b> LISLQAKI
	<b>At4g16680</b>	(431)	<b>GD</b> LVFVPSQREIETAPR	<b>IKH</b> YGLCGLRILILIQ	<b>YAN</b> LISLQAKI
	<b>C.elegansM064</b>	(505)	<b>GD</b> LVFVPSQREIETAPR	<b>IKH</b> YGLCGLRILILIQ	<b>YAN</b> LISLQAKI
	<b>H.sapiensCDC28-1</b>	(679)	<b>GD</b> LVFVPSQREIETAPR	<b>IKH</b> YGLCGLRILILIQ	<b>YAN</b> LISLQAKI
	<b>S.cerevisiaePRP2</b>	(436)	<b>GD</b> LVFVPSQREIETAPR	<b>IKH</b> YGLCGLRILILIQ	<b>YAN</b> LISLQAKI
	<b>S.pombeCDC28</b>	(581)	<b>GD</b> LVFVPSQREIETAPR	<b>IKH</b> YGLCGLRILILIQ	<b>YAN</b> LISLQAKI
			<b>IV</b>	<b>V</b>	
	<b>At1g32490</b>	(707)	<b>L</b> ITVPSKASATQRAGAGRS	<b>GKCK</b> RLYLAFTANN	<b>LEEN</b> VDFVARTN
	<b>At2g35340</b>	(756)	<b>L</b> ITVPSKASATQRAGAGRS	<b>GKCK</b> RLYLAFTANN	<b>LEEN</b> VDFVARTN
	<b>At4g16680</b>	(531)	<b>L</b> ITVPSKASATQRAGAGRS	<b>GKCK</b> RLYLAFTANN	<b>LEEN</b> VDFVARTN
	<b>C.elegansM064</b>	(675)	<b>LH</b> ITVPSKASATQRAGAGRS	<b>GKCK</b> RLYLAFTANN	<b>LEEN</b> VDFVARTN
	<b>H.sapiensCDC28-1</b>	(709)	<b>L</b> ITVPSKASATQRAGAGRS	<b>GKCK</b> RLYLAFTANN	<b>LEEN</b> VDFVARTN
	<b>S.cerevisiaePRP2</b>	(536)	<b>L</b> ITVPSKASATQRAGAGRS	<b>GKCK</b> RLYLAFTANN	<b>LEEN</b> VDFVARTN
	<b>S.pombeCDC28</b>	(681)	<b>L</b> ITVPSKASATQRAGAGRS	<b>GKCK</b> RLYLAFTANN	<b>LEEN</b> VDFVARTN
			<b>VI</b>	<b>VII</b>	
	<b>At1g32490</b>	(807)	<b>IN</b> RRRSLRSTPLMLRSLVGS	----	<b>IK</b> CSKRLITAAIMLSS
	<b>At2g35340</b>	(856)	<b>IN</b> RRRSLRSTPLMLRSLVGS	----	<b>IK</b> CSKRLITAAIMLSS
	<b>At4g16680</b>	(627)	<b>IN</b> RRRSLRSTPLMLRSLVGS	----	<b>IK</b> CSKRLITAAIMLSS
	<b>C.elegansM064</b>	(775)	<b>IN</b> RRRSLRSTPLMLRSLVGS	----	<b>IK</b> CSKRLITAAIMLSS
	<b>H.sapiensCDC28-1</b>	(809)	<b>TS</b> RRRSLRSTPLMLRSLVGS	----	<b>IK</b> CSKRLITAAIMLSS
	<b>S.cerevisiaePRP2</b>	(636)	<b>IN</b> RRRSLRSTPLMLRSLVGS	----	<b>IK</b> CSKRLITAAIMLSS
	<b>S.pombeCDC28</b>	(781)	<b>IN</b> RRRSLRSTPLMLRSLVGS	----	<b>IK</b> CSKRLITAAIMLSS
			<b>VIII</b>	<b>IX</b>	
	<b>At1g32490</b>	(901)	<b>L</b> IVRSMKRARDRDQQLG	<b>LLR</b> LELVDSISN	----
	<b>At2g35340</b>	(950)	<b>L</b> IVRSMKRARDRDQQLG	<b>LLR</b> LELVDSISN	----
	<b>At4g16680</b>	(723)	<b>L</b> IVRSMKRARDRDQQLG	<b>LLR</b> LELVDSISN	----
	<b>C.elegansM064</b>	(868)	<b>L</b> IVRSMKRARDRDQQLG	<b>LLR</b> LELVDSISN	----
	<b>H.sapiensCDC28-1</b>	(902)	<b>L</b> IVRSMKRARDRDQQLG	<b>LLR</b> LELVDSISN	----
	<b>S.cerevisiaePRP2</b>	(728)	<b>L</b> IVRSMKRARDRDQQLG	<b>LLR</b> LELVDSISN	----
	<b>S.pombeCDC28</b>	(874)	<b>L</b> IVRSMKRARDRDQQLG	<b>LLR</b> LELVDSISN	----
			<b>Q903stop</b>		
	<b>At1g32490</b>	(981)	<b>E</b> RMVYVLCGLVLSKSG	<b>Q</b> MLLTKPK	<b>EP</b> HLLEIAPHY
	<b>At2g35340</b>	(1030)	<b>E</b> RMVYVLCGLVLSKSG	<b>Q</b> MLLTKPK	<b>EP</b> HLLEIAPHY
	<b>At4g16680</b>	(803)	<b>S</b> ELMVFVLCGLVLSKSG	<b>Q</b> MLLTKPK	<b>EP</b> HLLEIAPHY
	<b>C.elegansM064</b>	(947)	<b>E</b> RMVYVLCGLVLSKSG	<b>Q</b> MLLTKPK	<b>EP</b> HLLEIAPHY
	<b>H.sapiensCDC28-1</b>	(981)	<b>E</b> RMVYVLCGLVLSKSG	<b>Q</b> MLLTKPK	<b>EP</b> HLLEIAPHY
	<b>S.cerevisiaePRP2</b>	(826)	<b>E</b> RMVYVLCGLVLSKSG	<b>Q</b> MLLTKPK	<b>EP</b> HLLEIAPHY
	<b>S.pombeCDC28</b>	(956)	<b>E</b> RMVYVLCGLVLSKSG	<b>Q</b> MLLTKPK	<b>EP</b> HLLEIAPHY
			<b>1182</b>		