

## A Z $\alpha$



PKZ	ZBP1	ADAR1	E3L	Species	Residue	Sequence	Length
				<i>D. rerio</i>	4	MSAENEI-EMRICDYLRRHG---RSTVQDIFKELKLEKSTVNRHLYSLQASKQVFKTVEDNKRFPVWNLVE--	16aa--
				<i>C. auratus</i>	1	MSAETQM-ERKIIDFLRQNG---KSIALTIAKEIGLDKSTVNRHLYLNQRSNQVFNFSNE--KPPVWDLME--	18aa--
				<i>C. carpio</i>	1	MSADTEI-EKQICDFLRRNG---KSTALKIAKEIRLDRKIVNKHLYILQKSNQMSVTNE--TPPVWDLLE--	16aa--
				<i>H. sapiens</i>	8	PGREGHL-EQRILQVLTAEAG--SPVKLAQLVKECQAPKRELNQVLYRMKKEKLV-SLTS---PATWCLGG--	32aa--
				<i>R. norvegicus</i>	8	LGTGDNL-EQKILQVLS DAG--SPVQIDQLLKKLQVPKKILNQVLYRLKKEGRV-SSPA---PATWSLGG--	16aa--
				<i>M. musculus</i>	8	LSTGDNL-EQKILQVLSDDG--GPVKIGQLVKKCQVPKKTINQVLYRLKKEDRV-SSPE---PATWSIGG--	15aa--
				<i>H. sapiens</i>	137	LSIYQDQ-EQRILKFLLEELGEGKATTAHDLGKLGTPKKEINRVLYSLAKKGLQKEAG--TPPLWKIAV--	75aa--
				<i>R. norvegicus</i>	135	LSISQNP-EQKVLNRLEELGEGKATTAYALARELRTPKDDINRILYSLERKGLHRGCVG--KPPLWLSLVP--	40aa--
				<i>M. musculus</i>	135	LSISQSP-EQKVLNRLEELGEGKATTAHVLAARELRIPKRDINRILYSLERKGLHRGCVG--KPPLWLSLVP--	44aa--
				<i>X. laevis</i>	109	LSVSRDPLENILLTFFRGGQDTQFTTAKALAWQFKVKKKHINRYFLYKFTKGLLCKNSG--TPPLWKISS--	42aa--
				<i>D. rerio</i>	251	LYLTPEI-HQQVCAFLTSLRPAETIQAKVLGKLGPKKIVNKVLYDLLKSNQVVKQGE--TPPLWRLCE--	91aa--
				<i>T. fluviatilis</i>	163	ITFTPDI-EQQVHGALLALPKSPDRVPKAWLAKQLHLPKTI VNRALYSLERAQKAFKQGL--SPPLWNACR--	67aa--
				<i>T. rubripes</i>	182	ITLTPDI-QEQVHRALVALKPSDSIAARWLAKKILHLPKIVNKALYSLERTQKASKQGL--SPPLWTTYR--	65aa--
				Vaccinia	6	YIDERSD-AEIVCAAIKNI GIEG-ATAAQLTRQLNMEKREVNKALYDLQRSAMVYSSDD--IPPRWFMTT	
				YMTV	6	CENDVKT-FSLVKNEVMMLNVDEYTTSIDISNKLKINKKKINKQLYKLOKEGVLKMPVS--NPPKWFKNC	
				YLDV	7	TVNDAEIT-FSLVKKEVLSLNTNDYTTAISLSNRLKINKKKINQQLYKLOKEDTVKMPVS--NPPKWFKNY	
				Swinepox	4	DISNEDV-YSLVKQEVDSLPGNFITAVEISKKIEKEKSSINRQLYALYQQGYIDMVPA--CPPKWYKRN	
				LSDV	3	SCDEVDS-YELVKKMVMNLSSESEFITAIETSRKLNIEKSNVNKQLYKLHNDGFIFMIRS--NPPKWFKKN	
				Orf	1	-MA-CEC-ASLILELLR--KSDDKLPKQIAKELGISKHEANRQLYRLLDSDVCCEDG--NPPRFVVEC	
				BPSV	1	-MA-CEC-ASLILDLLK--KCGVKLPKADIAKELGISKHEANRYLRLLDTRVVDG--HPPRWYAEAC	
				BPSV (BV-AR02)	1	-MASCDR-ESKILTFLS--SSGTPVPAKRVAALGISKHDANRCLYKLLSDAVSCVDG--CPPLWSAPC	

## B Z $\beta$

PKZ	ZBP1	ADAR1	Species	Residue	Sequence
			<i>D. rerio</i>	86	MTRDAIEEKHVKDLKSGG-LKASHIASKLGQ-QTQSTNKLLYGLMEKGEVRKCS--KSHMWTLKN
			<i>C. auratus</i>	83	TTAETCEEKHVRDLKSGG-LKACQIAKDLGQ-PRKAVNKQLYSMMQTGKVKKCE--ISSLWLLEG
			<i>C. carpio</i>	81	TTRDTSEEKRVEDLLMKSGGLKACHIAARDLGQ-SIQTTNKHLYSMMEKRRVQKCS--VSNLWSLNG
			<i>H. sapiens</i>	103	EDIYRFLLKDNQGRALVIAQALGMRATAKD VNRDLYRMKSRHLLDMDE--QSKAWTIYR
			<i>R. norvegicus</i>	87	AQPS--LEERILRFLETQGPQALHIAKALGMTTAKEVNPILYSMRNKHLLTVS---DTQMWTIYR
			<i>M. musculus</i>	86	AQPS--LDERILRFLEANGPHRALHIAKALGMTTAKEVNPILYSMRNKHLLSY---DQQTWKIYH
			<i>H. sapiens</i>	293	FLDMAEIKEKICDYLFNVSDSSALNLAKNIGLTKARDINAVLIDMERQGDVYRQG-TTPPIWHLTD
			<i>R. norvegicus</i>	243	FLDMAEIKEKICDYLFNVSDSSALNLAKNIGLAKARDVNAVLDLERQGDVYRQG-ATPPIWHLTD
			<i>M. musculus</i>	246	PLDMAEIKEKICDYLFNVSNSSALNLAKNIGLTKARDVTSVLDLERQGDVYRQG-ATPPIWYLTD
			<i>X. laevis</i>	215	PEDMATNSAKVCEFLYNSPSTPFIIRKNVGISKMPELTQILNTLEKQGEACKAS-TNPVKWTLTA
			<i>D. rerio</i>	409	MADSKDSKEKILQYLYEAGTGNALVI AKNLGLRS AKQVNPTLYALEKQGDVNRNTEVNPPTWELSA
			<i>T. fluviatilis</i>	297	LASKMPDQKELVNLHLLNAGETTALCIAKNLGLKTAKQVNPTLYSLEKQGDVVIKHGEVTPPTWELAT
			<i>T. rubripes</i>	315	TSTMSDQKELVNLHLYLFNSGETTALCIAKNLGLKTTKQINPTLYTLEKQGDVIKHSVTPATWELAT