

Figure S3
Sawyer et al.

Human aa:	1 (N-terminus)	(Active Site 1)	58
AGM	MNPQIRNMVEQMEPDIFVYYFNNRPILSG RNTVWLCYEVK--TKDPSGPPLDANIFQGKL		
Patas	MKPFRNTVERMYRGTFYFNRRPILSR RNTVWLCYEVK--TRGSMPTWGAKIFRGQL		
CrestMac	MKPQFRNTVERMYRGTFYFNRRPILSR RNTVWLCYEVK--TRGSMPTWGKIFRGQV		
CrabEatMac	MQPQRNTVERMYRGTFYFNRRPILSR RNTVWLCYEVK--TRGSMPTWDTKIFRGQV		
Baboon	MKPQFRNTVERMYRDFFYNRRPILSR RNTVWLCYEVK--TRGSMPTWDAKIFRGQV		
Chimp	MKPHFRNPVERMYQDTFSDNFYNRPILSH RNTVWLCYEVK--TKGSRPPLDAKIFRGQV		
Bonobo	MKPHFRNPVERMYQDTFSDNFYNRPILSR RNTVWLCYEVK--TKGSRPPLDAKIFRGQV		
Human	MKPHFRNTVERMYRDTSYNFYNRPILSR RNTVWLCYEVK--TKGSRPPLDAKIFRGQV		
Gorilla	MTPQFRNTVERMYRDTSYNFYNRPILSR RNTVWLCYEVK--TKDPSRPPLDAKIFRGQV		
Orangutan	MNPQFRNMVDGMDPHKFSYNFKNRPILSR RNTVWLCYEVK--TKGSRPPLDAKIFRGQV		
WoollyMon	MKPQTTRNTVVVRMDPDTFFYNRPILSH RNTVWLCYEVKMKTNDPSRPPLVANIFQGQV		
Tamarin	MKPQTTRNTVVVRMDPDTFFYDFYNRPILSD RNTVWLCYEVKMKTNDSRPPLVAKILEGQV		
Human aa:	59		117
AGM	Y-PEAKDHPEMKFLHWFRKWRQLHLDQEYEVTVWVWSWPCTRCANSVATFLAEDDPKVTLT		
Patas	Y-PEAKDHPEMKFLHWFRKWRQLHLDQEYEVTVWVWSWPCTRCANSVATFLAEDDPKVTLT		
CrestMac	Y-SKAKYHPEMRFLRWFSKWRQLHHDQEYKVTWVWSWPCTRCANSVATFLAKDPKVTLT		
CrabEatMac	LRSKAKYHPEMRFLHWFRWRQLHHDQEYKVTWVWSWPCTRCANSVATFLAKDPKVTLT		
Baboon	Y-SKAKYHPEMRFLHWFRKWRQLHLDQEYEVTVWVWSWPCTGCANSVATFLAEDDPKVTLT		
Chimp	Y-SKLKYHPEMRFFFHWFSKWRKLHLDQEYEVTVWYISWSWPCTKCTRDVATFLAEDDPKVTLT		
Bonobo	Y-SKLKYHPEMRFFFHWFSKWRKLHLDQEYEVTVWYISWSWPCTKCTRDVATFLAEDDPKVTLT		
Human	Y-SELKYHPEMRFFFHWFSKWRKLHLDQEYEVTVWYISWSWPCTKCTRDMATFLAEDDPKVTLT		
Gorilla	Y-SELKYHPEMRFFFHWFSKWRKLHLDQEYEVTVWYISWSWPCTKCTRNVATFLAEDDPKVTLT		
Orangutan	Y-FELKNHPEMRFFFHWFSKWRKLHLDQECEVTWYMSWSWPCTKCTRNVATFLAEDDPKVTLT		
WoollyMon	S-FNPEHHAEMYFLSWFR-GNLLPACKRSQITWFVSWNPCLYCVAKVAEFLAEHPKVTLT		
Tamarin	H-FDPEHHAEMYFLSWFR-GNLLQACKSSQITWFVSWNPCLNCVAKVAEFLAEHPNVTLT		
Human aa:	118 128 (Linker 1) PseudoActive	Site 1)	177
AGM	IFV ARLYYFWKPDYQQALRILCQERGGPHATMKIMNYNEFQHCW NEFDGQGKPFKPRKN		
Patas	IFV ARLYYFWKPDYQEALRILCQKRGGPHATMKIMNYNEFQHCW NEFDGQGKPFKPRKN		
CrestMac	IFV ARLYYFWKPDYQQALRILCQKRGGPHATMKIMNYNEFQDCW NKFVDGRGKPFKPRNN		
CrabEatMac	IFV ARLYYFWKPDYQQALRILCQKRGGGLHATMKIMNYNEFQDCW NKFVDGGGKPFKPRNN		
Baboon	IFV ARLYYFWKPDYQEALRVLCQKRGSPHATMKIMNYNEFQHCW NKFVRGRREPFEPWEN		
Chimp	IFV ARLYYFWDPDYQEALRSLCQKRDGPRATMKIMNYDEFQHCW SKFVYSQRELFEPWNN		
Bonobo	IFV ARLYYFWDPDYQEALRSLCQKRDGPRATMKIMNYDEFQHCW SKFVYSQRELFEPWNN		
Human	IFV ARLYYFWDPDYQEALRSLCQKRDGPRATMKIMNYDEFQHCW SKFVYSQRELFEPWNN		
Gorilla	IFV ARLYYFWDPDYQEALRSLCQKRDGPRATMKIMNYDEFQHCW SKFVYSQRELFEPWNN		
Orangutan	IFV ARLYYFWDPDYQEALRSLCQERDGPRANMKIMNYDEFQHCW NKFVYSQRELFEPWNN		
WoollyMon	VST ARLYCYRKKDWRRALRKLSQTG---ARVKIMDYEEFQHCW DNFVDNQREPFEWPNA		
Tamarin	VST ARIYCYWKWDWRRALRKLCQTG---ARVKIMNYKEFAYCW ENFVYKERKPFYWDK		

Human aa:	178	(Active Site 2)	237
AGM	LPKHYTLLHATLGELLRHVMDPGTFTSNFNNKPWVSG QRETYLCYKVERSHTNDTVVLLNQ		
Patas	LPKHYTLLHATLGELLRHVMDPGTFTSNFNNKPWVSG QRETYLCYKVERSHTNDTVVLLNQ		
CrestMac	LPKHYTLLQATLGELLRHLMMDPGTFTSNFNNKPWVSG QHETYLCKVERLHNNDTVVPLNQ		
CrabEatMac	LPKHYTLLQATLGELLRHLMMDPGTFTSNFNNKPWVSG QHETYLCKVERLHNNDTVVPLNQ		
Baboon	LPKHYTLLHATLGELLRHLMMDPGTFTSNFNFYNPWVSG QHETYLCKVERLHNNDTVVPLNQ		
Chimp	LPKYYILLHIMLGEILRHSMMDPPTFTSNFNNELWVRG RHETYLCKVERLHNNDTVVPLNQ		
Bonobo	LPKYYILLHIMLGEILRHSMMDPPTFTSNFNNELWVRG RHETYLCKVERLHNNDTRVLLNQ		
Human	LPKYYILLHIMLGEILRHSMMDPPTFTFNNEPWVRG RHETYLCKVERMHNNDTVVLLNQ		
Gorilla	LPKYYMLLHIMLGEILRHSMMDPPTFTSNFNEHWVRG RHETYLCKVERLHNNDTVVLLNQ		
Orangutan	LPKYYIVLHIIILGEILRHSMMDPLTFTSNFNNEPCEVG RHETYLCKVERLHNNDTVVLLNQ		
WoollyMon	LPKHYTLLRITLGEVLRHRMDPVTFTYNFTNDPSVLG QHQSYLCYKEHLRNGTVVPLHQ		
Tamarin	FSGNYRFLRCKLQEILRHLMMDPGTFTYNFTNDPSVLG RHQTYLCYEAEHLHSGTVVPLHQ		
Human aa:	238		297
AGM	HRGFLRNQAPDRHGFPKGR HAE LCFLDLIPFWKLD-DQQYRVTCFTSWS PCFSCA QKMAK		
Patas	HRGFLRNQAPDRHGFPKGR HAE LCFLDLIPFWKLD-DQQYRVTCFTSWS PCFSCA QKMAK		
CrestMac	HRGFLRNQAPNIHGFPKGR HAE LCFLDLIPFWKLD-GQQYRVTCFTSWS PCFSCA QEMAK		
CrabEatMac	HRGFLRNQAPNIHGFPKGR HAE LCFLDLIPFWKLD-GQQYRVTCFTSWS PCFSCA QEMAK		
Baboon	HRGFLRNQAPDIHGFPKGR HAE LCFLDLIPFWKLD-GQQYRVTCFTSWS PCFSCA QEMAK		
Chimp	RRGFLCNQAPHKGFLEGR HAE LCFLDVIIFWKLDLHQDYRVTCFTSWS PCFSCA QEMAK		
Bonobo	RRGFLCNQAPHKGFLEGR HAE LCFLDVIIFWKLDLHQDYRVTCFTSWS PCFSCA QEMAK		
Human	RRGFLCNQAPHKGFLEGR HAE LCFLDVIIFWKLDLDQDYRVTCFTSWS PCFSCA QEMAK		
Gorilla	RRGFLCNQAPHKGFLEGR HAE LCFLDVIIFWKLDLHQDYRVTCFTSWS PCFSCA QEMAK		
Orangutan	RRGFLCNQAPAIHGFPPEGR HAE LCFLDVIIFWKLDGKQRYRVTCFTSWS PCFRCA QEMAK		
WoollyMon	HRGFILNEASNSVSFPEGR HAE LCLLDLISFWKLKQAQRYRVTCFISWS PCFSCA EKVAE		
Tamarin	HRGFILNEASNNLSFPEGR HAE LCLLDLISFWKLDPAQTYRVTCFISWS PCFSCA QEVAE		
Human aa:	298	(Linker 2)	(Pseudo-Active Site 2) 357
AGM	FISNNKHVSLCIFA ARIYDDQGRQCQEGLRTLHRDGAKIAVMNYSEFEYCW DTFVDRQGRP		
Patas	FISKKKHVSLCIFA ARIYDDQGRQCQEGLRTLHRDGAKIAVMNYSEFKHCW DTFVDHQGRP		
CrestMac	FISNNEHVSLCIFA ARIYDDQGRYQEGLRTLHRDGAKIAMMNYSEFEYCW DTFVDRQGRP		
CrabEatMac	FISNNEHSLCIFA ARIYDDQGRYQEGLRTLHRDGAKIAMMNYSEFKHCW DTFVDRQGRP		
Baboon	FISNNEHVSLCIFA ARIYDDQGRQCQEGLRTLHRDGAKIAMMNYSEFEYCW DTFVDRQGRP		
Chimp	FISNNKHVSLCIFA ARIYDDQGRQCQEGLRTLAKAGAKISIMTYSEFKHCW DTFVDHQGCP		
Bonobo	FISNNKHVSLCIFA ARIYDDQGRQCQEGLRTLAKAGAEISIMTYSEFKHCW DTFVDHQGCP		
Human	FISKNKHVSLCIFT ARIYDDQGRQCQEGLRTLAEAGAKISIMTYSEFKHCW DTFVDHQGCP		
Gorilla	FISNKKHVSLCIFA ARIYDDQGRQCQEGLRTLAEAGAKISIMTYSEFKHCW DTFVYHQGCP		
Orangutan	FISNNQHVSLCIFA ARIYDDQGRCKEGLRTLDEAEAKISIMTYDEFQHCW DTFVDHQGRP		
WoollyMon	FLQENPHVNLIHISA ARIYDYQRGYKKGLRRLDRAGTPISMVKYSEFKHCW DTFVDHQGHP		
Tamarin	FLHENPHVNLRIFA ARIYDYRPGYEEGLRLSWAGAPISMVKYSEFKHCW DTFVDHQGRS		

Human aa:	358	385
AGM	FQPWDGLDEHSQALSGRRLRAI-----	
Patas	FQPWDGLDEHSQALSGRRLRAILQNQGN	
CrestMac	FQPWDGLDEHSQALSERLRAILQNQGN	
CrabEatMac	FQPWDGLDEHSQALSERLRAILQNQGN	
Baboon	FQPWDGLDEHSQDLSGRRLRAILQNQGN	
Chimp	FQPWDGLEEHSQALSGRRLRAILQNQGN	
Bonobo	FQPWDGLEEHSQALSGRRLRAILQNQGN	
Human	FQPWDGLDEHSQDLSGRRLRAILQNQEN	
Gorilla	FQPWDGLEEHSQALSGRRLQAILQNQGN	
Orangutan	FLPWIRLHEHSEALSGRRLRAILLNQGN	
WoollyMon	FQPWEELNEHSQALSGRRLQAILQNQGN	
Tamarin	FKPWKGLNEHSQALSGRRLQAILQIMGN	