

Supplemental Fig 1

human	GCAGCGTGCAACCATGTACTTCGGGGTCTCGCGCTGAGCCTGTT	45
human	TTTTCTCATTTGAGGGTGTGTGAGGGCTAAGAATGGCCAACCATAAATCCGAGTTCCTCAGTCTTCTCTCTTTCCCGT	127
human	TCTTTTCTTGCCAGGCTTGTGACCTTCTGAGCCTCAGTTTCTCCACAGTCCCATTCGCAACTCCGTGTTTCCAAGGTCTC	209
human	TTGGCAGGAGCCACTCCACAGTGAACCCCTCTAGGTGCAATTACAGGATGATTTTGTGTCTCGTGGGTGTCTCGTCTAGGG	291
human	TGGAGGGCCACGCTCCTCTTTTGAATTCTGACTTTCCTGCCTAGGAGTGTCCCAAGGTTTTCTTGTAAATTTGGTCTGG	373
mouse	GA**T	5
human	CTGGCTGCTGTGACACGCCACACTGTCCTGACGGTGCACACACTGCTGTGTGGAGAACAGAGGAGTCCAGCTGGCCTTAC	455
mouse	TCTT*ATTAA**TGGAT*TGGCTG*AGA*CCT*AC*A**TACACT**CTGCCA*GGAGC**C*****T*****TG*TG*	87
	M A G▼ I R V T K V D W Q R S R N G A A H H T Q E Y P C	27
human	ATGGCAG•GGATCAGAGTCACCAAGGTGGACTGGCAGCGGTGAGGAATGGCGCTGCCACCACACCCAGGAGTACCCCTGC	536
mouse	*****•**G*****A*****C*****AT*****AA*****T*****A**T*****T*** * * * V * I * * * * * H * K * * * * * * * * * D * * *	168
	P E L V V R R G Q S F S L T L E L S R A L D C E E I L I	55
human	CCTGAGCTGGTGGTTCGCAGGGGCCAGTTCGCTCAGCCTCAGCTGGAGCTGAGCAGAGCCCTGGACTGTGAGGAGATCCTCA	618
mouse	T***A*****A**A*****TA*****T*****C*****T*****T*****A**C*****GC***** S * * * * * L * * * * * D * * * V * * S * * A * *	250
	F T V E T G▼ P R A S E A L H T K A V F Q T S E L E R G	82
human	TCTTCACGGTGGAGACAG•GACCCCGGGCTTCTGAGGCCCTCCACACAAAGCTGTGTCCAGACATCGGAGCTGGAGCGGG	699
mouse	*****C*****•****T*AC**A**C*****T*****C**A*****G*A*****A**AATA* * * * * * H * * * * * * * * * * * A * * * I *	331
	E G W T A A R E A Q M E K T L T V S L A S P P S A V I	109
human	GTGAGGGCTGGACAGCAGCAAGGGAGGCTCAGATGGAGAAAACCTCTGACCGTACGTCTCGCCAGCCCTCCAGTGTGTAT	781
mouse	*G**CACT*****T***AA***AA***CA*****C**AA*C*****C***TTG*****T***A***A***** D T * * * * K * E * T * N * I * * * * * L * * S N * * *	413
	G R Y L L S I R L S S H R K H S N R R L G E F V L L F	136
human	TGGCCGTACCTGCTGAGCATCAGGCTTCTCCTCTCACCGCAAACACAGCAACCGGAGGCTGGGCGAGTTTGTCTCCTTTTC	863
mouse	*****A*****TGC*****CC**T**C**G*A**G*****TG*****A*AG*****C*****A*****G*** * * * * * A * P * * R * * * * * D * K * * Q * I * * *	495
	N P W C A E▼ D D V F L A S E E E R Q E Y V L S D S G I	163
human	AACCCATGGTGTGCAG•AGGACGATGTGTTTCTGGCCTCAGAGGAGGAGACAGGAGTACGTGCTCAGCGACAGCGGCATC	944
mouse	**T**C*****CC***A*****A*****A*****G*****T*A*****T**G** * * * * P * * * * * D * * * * * * * * * * N * * * V	576
	I F R G V E K H I R A Q G W N Y G Q ▼ F E E D I L N I C	190
human	ATCTTCCGAGGCGTGGAGAAGCACATACGAGCCAGGGCTGGAACCTACGGGCAG•TTTGAGGAGGACATCTGAACATCTGC	1025
mouse	*****C*****•*****A***** *	657
	L S I L D R S P G H Q N N P A T D V S C R H N P I Y V T	218
human	CTCTCCATCCTGGATCGAAGCCCGGTACCAAACAACCCAGCCACCGACGTGCTCCTGCCGCCACAACCCATCTACGTCA	1107
mouse	*****T*****C*****T**TA*****GG*GG*****T*****CA*****TG***AG***T*** * * * * * * * * * S * * E D * * * * * * H * * D * V * * *	739
	R V I S A M ▼ V N S N N D R G V V Q G Q W Q G K Y G G G	245
human	CCAGGGTCATCAGTGCCATG•GTGAACAGCAACAACGACCGAGGTGTGGTGCAAGGACAGTGGCAGGGCAAGTACGGCGCGG	1188
mouse	*****A*****•*****T*****A*****C*****A**T**A**T** * I *	820
	T S P L H W R G S V A I L Q K W L K G R Y K P V K Y G	272
human	GCACCAGCCCGTGCAGTGGCGGGCAGCGTGGCCATCTGCAGAAGTGGCTCAAGGGCAGGTACAAGCCAGTCAAGTACGG	1270
mouse	*T***A***A**A*****T*****A*****C**A*****T*****A**T*** * N * * N * * * * * * * * * * * F * * * * * * * * * *	902
	Q C W V F A G V L C T ▼ L R C L G I A T R V V S N F N	299
human	CCAGTGTGGTCTTCGCCGAGTCTGTGCACAG•TCCTCAGGTGCTTGGGGATAGCCACACGGGTCTGTCCAACCTCAA	1351
mouse	*****T*****A*****C*****A*****C**A*****G***** * * * * * * * * * M * * * * * * * * * * * * * * * *	983
	S A H D T D Q N L S V D K Y V D S F G R T L E D L T E	326
human	CTCAGCCACGACACAGACCAGAACCTGAGTGTGGACAAATACGTGGACTCCTTCGGGCGGACCCTGGAGGACCTGACAGAA	1433
mouse	*****C**TGGC**T*****T*****T*****T*AT**C**A***** * * * * * * * * G * * * * * * * * * * * Y * * * * * * * * *	1065

human	GGAGGCCTCAGTTAATCCTGCCTCAACCT	2686
mouse	CTTCTGTCTTTGGCC***ATGAG*TT*GGCAAGGTCCCTCCCAGTGCATTGATGGAGGTGCTGGACTCAGTAACCCCTTCACC	2371
mouse	CTCAGGACAAGTGGCTGATGTAAGAGCAGAGGGACCCCTCCAACCTCTTGTCCACCCTTCTGCTGGGAGAGTGGCATGTCCAGAG	2453
mouse	TTTCTGAGAGCCCTGGCCCAAGAGCTCAGCCAGCTCAGCCCAGGTAACCTCACCACCTTCTGCCTTTCTATCATCTCTTCAAA	2535
mouse	TGTCTGACCACATTTGGACCCAAGAATTCTCCAAGCCGGAGCATCCCCATTATAGAGGAGCCTTTCTGAAGCCATAAGACA	2617
mouse	AAGCAGAAACAAGGTTGAGAACCAAGTGGTCCCTCCAACCTCATGTTCTTAAAAGAGCACTGGATTTTAAGCAACAGGAGATTC	2699
mouse	TTCCCTATGTGAAACACTGACTCTGGATTTGGGTGATGGAGCTAAAACCTGCCTGAGAACAGCTGAAGAAGACAAAGGAGTT	2781
mouse	CTCCCCAAACTGGGCAGCATGGATATACTCCAGCTCTGGCCATCCTGGAGTTCACAGGACTGCCCCAGATCACTCAGCCAC	2863
mouse	TCCTTCTTGAACTAGAATGGCTTGCACGGTGCCGATCCTACACTTGGAGTCAAAGCAGGACATGGATGCCTGGAATCAGGA	2945
mouse	CCAGAGTAGACACAACAAGGCCATGAAGAATATGCCACTAGATATGAAATTCAGCACTGAAATTTCTAGACAGACATTAAAA	3027
mouse	TTAAGCTACAGTTTAAGAACATTAAACAACAACAGGTGCATCTGCAACTCAGTGCCTCTTGGATACAAATGACGGTGAGGG	3109
mouse	AATTGCAGAGATGGCTCAGCTGTTAAGAGTACTTTCTGATCTTCTAGAGGGGTTGAGTTTGGTTCCAGCACTGGTGTGAGA	3191
mouse	CAGCTCACATACTATAACTCCAACCTCCAGGGCTCCAACATTTCTGGTCTCTGTGGGCACCCACACTTACCTGCTGCATGTAC	3273
mouse	ACCCCTCTCCAAACACATGCAATTA <u>AAAAATAAAATAAA</u> TCCTTTTTTAAAATAC	3327