

Table S1: N-terminal FGE amino acid sequences used for WebLogo generation.

The 88 species used are listed and classified. The N-terminal FGE sequences were centered at P1 (Arg72 of human FGE) or based on a ClustalW alignment for group III that do not bear a R/K/X-Y-S-R/K/X motif. Sequences are given for the part that corresponds to the cleavage site P8-P8' and the core region of P4-P1 is marked in bold letters.

Abbr.	Species	Classification	Sequence P8-P8'	number of sequences
homSap	homo sapiens	euarchontoglires	AAAH RY SREANAPGPV	36
panTro	pan troglodytes		AAAH RY SREANAPGPV	
gorGor	gorilla gorilla		AAAH RY SREANAPGPV	
ponAbe	pongo abelii		AAAH RY SREANAPGPV	
nomLeu	nomascus leucogenys		AAAH RY SREANAPGPV	
rheMac	macaca mulatta		GAAH RY SREANAPGSV	
macFas	macaca fascicularis		GAAH RY SREANAPGSV	
papHam	papio hamadryas		GAAH RY SREANAPGSV	
calJac	callithrix jacchus		AAAH RY SREANAPGPV	
tarSyr	tarsius syrichta		AAAH RY SREANAPGPF	
otoGar	otolemur garnettii		AAAH RY SREANAPGPI	
tupBel	tupaia belangeri		AAAH RY SREANVPGPV	
musMus	mus musculus		AA AQ RY S REANAPGLT	
ratNor	rattus norvegicus		AA AQ RY S REANAQGLT	
speTri	spermophilus tridecemlineatus		SA AH RY S REANAP S AL	
dipOrd	diplomys ordii		AAAH RY SREANAPG P	
oryCun	oryctolagus cuniculus		AA AH RY S REANAPGPV	
ochPri	ochotona princeps		AA AH RY S REANAPGPV	
canFam	canis familiaris		AAAH RY SREANAPG V	
felCat	felis catus		AAAH RY SREANAPG V	
ursAme	ursus americanus		AAAH RY SREANAPG V	
ailMel	ailuropoda melanoleuca		AAAH RY SREANAPG V	
pteVam	pteropus vampyrus		AAAH RY SREANAAG P	
turTru	tursiops truncatus		AAAH RY SREANAPG S V	
susScr	sus scrofa		AA AQ RY S REANAPGPV	
equCab	equus caballus		AAAH RY SREANAPG S G	
bosTau	bos taurus		AAAH RY SREANAPG S V	
capHir	capra hircus		AAAH RY SREANAPG S V	
oviAri	ovis aries		AA PH RY S REANAPG S V	
eriEur	erinaceus europae		AAAH RY SREANAPG P D	
loxAfr	loxodonta africana		AAAH RY SREANVPG P V	
mamPri	mammuthus primigenius		AAAH RY SREANVPG P V	
proCap	procavia capensis		AAAH RY SREANVPG P V	
echTel	echinops telfairi		AAAH RY SREANAPG L G	
dasNov	dasyypus novemcinctus		AA AH RY S REANAQ G RA	
choHof	choloepus hoffmanni		AAAH RY SREANAPG R A	
monDom	monodelphis domestica	marsupials	SA AH RY S REANVA E PA	22
macEuq	macropus euqenii		SA AH RY S REANVA E RA	
anoCar	anolis carolinensis		VA SR KRY S REVHL P Q P	
galGal	gallus gallus		VA TV RY S AA A NDGR S P	
melGal	meleagris gallopavo		AA AR RY S AVANGGR S S	
allMis	alligator mississippiensis		AA VR RY S PEANAQ R GP	
pytMol	python molurus		VA AR KRY S LDANV S Q P	
ambMex	ambystoma mexicanum		HRA AR RY S REANE P LKA	
xenTro	xenopus tropicalis		DS PH KRY S REANE P EPA	
xenLae	xenopus laevis		EN SH KRY S REANE P EPT	
takRub	takifugu rubripes		VD GA KRY S RCASRRD T	
tetNig	tetraodon nigroviridis		EP GP KRY S RGANGR D ED	
danReq	danio rerio	DV NR IY S KTANEG P DD		
oncMyk	oncorhynchus mykiss	KE SS KRY S KKSNER H TD		
salSal	salmo salar salmon	KE SS KRY S KKSNER H TD		
oryLat	oryzias latipes	M TE PKRY S AGSK S NGG		
ictPun	ictalurus punctatus	DE DG KRY S ERANKE F VG		
ictFur	ictalurus furcatus	DE DG KRY S ERANKE F VG		
gasAcu	gasterosteus aculeatus	EE GS KRY S EGANGR F VQ		
oreNil	oreochromis niloticus	LD ED KRY S KDANDR T NO		
osmMor	osmerus mordax	SH ASK Y L QTTNE K P T L		
esoLuc	esox lucius	RE SG IY S KTSNE K L T D		
cioInt	ciona intestinalis*	urochordates	EVA E EPDLPLQ V SSD	30
cioSav	ciona savignyi*		EVE E EPDIPL P T I PTG	
halRor	halocynthia roretzi*	MD Q EV T ENAE Q HL V E		
oikDio	oikopleura dioica	AG T FT M GDNEEL M PGD		
braFlo	branchiostoma floridae*	P V EG G GA E AP F DKD		
strPur	strongylocentrotus purpuratus*	AL E EKRY S REAN D P I DH		
parLiv	paracentrotus lividus	PL L AL K RY S KEVNDAT G S		
sacKow	saccoglossus kowalevskii*	K S GG V ND H H G VE Q HD		
droMel	drosophila melanogaster	hemichordates	SG Q VC Q RA Q AG H SHY	
anoGam	anopheles gambiae		K E RV I FP T DA A Q H SP S	
mayDes	mayetiola destructor		SN E N K DD S SN E M C SN P	
bomMor	bombyx mori		LY S GN N EQ C S V EN I S	
apimel	apis mellifera		Y K KE I Q D S C L A ND I L H	
camFlo	camponotus floridanus		G Y C V DN S K F DA I D I N	
acyPis	acyrthosiphon pisum		V C T S A T S N S E R L D S E	
rhoPro	rhodnius prolixus		C I P S S F LD L I K Q T REN	
pedHum	pediculus humanus		K V N F K D DA I F E EQ E I S	
triCas	tribolium castaneum		EP N KRY S K T F N EG G DS	
denPon	dendroctonus ponderosae		N P S Q KRY K R D L N EN P AN	
lepDec	leptinotarsa decemlineata		N P SH K Y M K E S N E T GN	
eriSin	eriocheir sinensis	S P E T S P V L EN N E S P N		
ambVar	amblyomma variegatum	G S T S DD D E S R V E D		
rhiMic	rhipicephalus microplus	N H DE K AR L DS E NA A L N		
aplCal	aplysia californica	S Q AP E SS D PS G S V GD		
lotGig	lottia gigantea	K G SE Q AD D K S G M Y H P Q		
nemVec	nematostella vectensis	K K F V KRY S KAN V D D I		
acrMil	acropora millepora	K I T D R K NG E G K F N L K S		
monFav	montastraea faveolata	M T L T NG T D G E I K L K S		
plePil	pleurobrachia pileus	K I S D M K R N E Q S E H P N		
ampQue	amphimedon queenslandica	S V E K E S E P K A Q A E		

* intronated differently