

**Fig. S7**

[illegible]

h.sapiens	5341484	32	ETVPTF	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
i.intestinalis		32	ETVPTF	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
M.musculus	TAF41	40	EGCA	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
G.gallus	TAF41	49	EQWCEG	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
A.carolinensis	TAF41a	1	EGCA	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
A.carolinensis	TAF41b	1	EGCA	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
X.tropicalis	TAF41a	51	GEIEGEG	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
X.tropicalis	TAF41b	51	GEIEGEG	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
D.erio	TAF41a	19	LHNKGC	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
D.erio	TAF41b	42	TOILGEG	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
H.sapiens	TAF42	37	HHVKYCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
M.musculus	TAF42	37	HHVKYCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
G.gallus	TAF42	37	HHVKYCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
A.carolinensis	TAF42	43	HHVKYCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
X.tropicalis	TAF42	37	OHVRCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
D.erio	TAF42	33	VEVRYCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
H.sapiens	TAF43	39	VILVQCG	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
M.musculus	TAF43	38	VILVQCG	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
G.gallus	TAF43	34	ARHVEPT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
A.carolinensis	TAF43	39	VHIEPPT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
X.tropicalis	TAF43	39	VHIEPPT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
D.erio	TAF43a	38	VHVKYCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
D.erio	TAF43b	37	GTWETCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
D.erio	TAF43c	22	VHVKYCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
H.sapiens	TAF44	46	HLIKPCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
M.musculus	TAF44	41	HLIKPCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
G.gallus	TAF44	41	HOVKQCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
A.carolinensis	TAF44	68	HOVKQCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
X.tropicalis	TAF44	113	YQVKQCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
D.erio	TAF44a	11	YQVKQCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
D.erio	TAF44b	35	PEVWPCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
D.erio	TAF44c	38	PEVWPCT	CEVTAHRCRCNNK	IEERSQTVKCSQ	PCGVAGTTIRNP	PCSDVASIV	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS
H.sapiens	TAF45	38	SQILAAG	CEVTLDKDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
M.musculus	TAF45	38	SQILAAG	CEVTLDKDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
G.gallus	TAF45	58	GCQDFADELQGLAAC	CEVTLDKDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
A.carolinensis	TAF45a	31	GOLAAG	CEVTLDKDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
A.carolinensis	TAF45b	34	KELEVGA	CEVTLDMSHPKMIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
X.tropicalis	TAF45a	31	GOLAAG	CEVTLDKDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
X.tropicalis	TAF45b	31	GOLAAG	CEVTLDKDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
D.erio	TAF45a	38	GOLAAG	CEVTLDKDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
D.erio	TAF45b	33	GOLAAG	CEVTLMLDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
D.erio	TAF45c	31	GOLAAG	CEVTLMLDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
D.erio	TAF45d	31	GOLAAG	CEVTLMLDSSQPRRTIAR	ARACGCGAGTTIRNP	PCVDARHITK	QGWKC	CPCLGECECK	LLPDL	SGM	CAAT	GNRK	KTTR	THPR	TS	
consensus																

i.intestinalis_5341484_		
H.sapiens_TAFAl		-----
M.musculus_TAFAl		-----
G.gallus_TAFAl		-----
A.carolinensis_TAFAla		-----
A.carolinensis_TAFAlb		-----
X.tropicalis_TAFAla		-----
X.tropicalis_TAFAlb		-----
D.xerio_TAFAla	151	K-----
D.xerio_TAFAlb	137	-----P
H.sapiens_TAFa2		-----
M.musculus_TAFa2		-----
G.gallus_TAFa2		-----
A.carolinensis_TAFa2		-----
X.tropicalis_TAFa2		-----
D.xerio_TAFa2		-----
H.sapiens_TAFa3		-----
M.musculus_TAFa3		-----
G.gallus_TAFa3	129	-IPLVCAEH
A.carolinensis_TAFa3		-----
X.tropicalis_TAFa3	139	-PDILDQDH
D.xerio_TAFa3a		-----
D.xerio_TAFa3b		-----
D.xerio_TAFa3c	157	HTPL----
H.sapiens_TAFa4		-----
M.musculus_TAFa4		-----
G.gallus_TAFa4	166	-LGVLKSSD
A.carolinensis_TAFa4		-----
X.tropicalis_TAFa4		-----
D.xerio_TAFa4a	112	HFGLLGT--
D.xerio_TAFa4b		-----
D.xerio_TAFa4c		-----
H.sapiens_TAFa5		-----
M.musculus_TAFa5		-----
G.gallus_TAFa5	182	-FFIL----
A.carolinensis_TAFa5a		-----
A.carolinensis_TAFa5b		-----
X.tropicalis_TAFa5a		-----
X.tropicalis_TAFa5b		-----
D.xerio_TAFa5a		-----
D.xerio_TAFa5b		-----
D.xerio_TAFa5c		-----
D.xerio_TAFa5d		-----
consensus		-----