

	1	TMEM1	Ex3   Ex4	TMEM2	60
1 Human	MSNNGAD	LTFGYIS	CFVAILLFGSNEFVP	KKFDTGDGM	FLQWVLCAAIWLVALVNNLILH
2 Tarsier	MSSNGTD	LTGYSIS	SEFVAVLLFGSNEFAP	KKYDTCDGM	FLQWVLCAAIWSVALVNNLILH
3 Mouse	MSSNATD	LTGYSLS	SAAAILLFGSNEFVP	KKYDTCDGM	FLQWVLCAAIWLVALVNNLILH
4 Possum	EHYNGTD	LTGFIS	SAVAVVLYGSNEFVP	VKKIDTCDGM	FLQWILCAAIMVSLVNNLLH
5 Turtle	INSNGTD	LTIGFTS	SAIAVFLFGTNEFVP	VKKFDTCDGM	FFQWILCAAIWIVSLVNNLIQN
6 Chicken	NISSGTD	LAIGFTS	SSTVAVLLFGTNEFVP	VKKYDTCDGM	FFQWILCASIWIIISLVNNLIQN
7 Lizard	VSSNVTD	LTIGFTS	SAIAVILFETNEFVP	VKKFDTCDGM	FFQWILCAAIWIVSLIVNNLIQD
8 Frog	VHSNSSN	LAIGFAS	SAISVILFGSNEFVP	VKKFDTCDGM	FFQWILCASIWIVALVNNLILR
9 Lungfish	GNSSKKD	LIYGFSA	CAVAAVFFGSNEFVP	IKKFDTCDGM	FFQWILCAAIWLVSLIANIILH
10 Coelacanth	TTSNSTD	MIFGFTS	CAVAVVFFGSNEFVP	VKKFDTCDGM	FFQWILCASIWIVSLIVNNIILH
11 Zebrafish	KVQNSAE	TYGYVT	CAFVLLIYGSYEFVP	MKRIETCDGM	FFQWICASGIWVGLVVDTLFH
12 Skate	SGQNGSN	LAFGFAA	CAIAVLFGSNEFVP	VKKFDTCDGM	FFQWILCAGIWIIVSLLVNNLIK
13 Lamprey	NGTSNQN	MAIGFTA	AAITSVFYGSNEFVP	VKKFDTCDGM	FFQWAMCTSLWLVLGLVSNFIOH
consensus/100%	...s.tphhh	ga.sshhs	.hhato.EsPhk+h	-TCDghh	QWhhssuIw.luLlsshI.p
consensus/80%	.tpsssshsh	Gahussl	asIhaG	NEVPElKkAdTCDGM	hQWllCAuIWhVuLlVnLI.c

	61	TMEM3	Ex4   Ex5	TMEM4	Ex5   Ex6	120
1 Human	CPKFW	EAMLG	CIWATGNIAVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDAE
2 Tarsier	CPKFW	EAMLG	CIWATGNIAVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDAE
3 Mouse	CPKFW	EAMLG	CIWATGNIAVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDAE
4 Possum	CPKFW	ELAMLG	CIWATGNITVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDPE
5 Turtle	SPRFW	ELAMVGG	SVWATGNITVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDPE
6 Chicken	CPQFW	ELAMVGG	FLWATGNITVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDPE
7 Lizard	SPRFW	ELAMVGG	SLWATGNITVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDPE
8 Frog	CPKFW	ELAMVGG	CVWATGNITVVP	IKTVGLGLGIL	WGSFNALTCWASSRFGWF	SLDPE
9 Lungfish	SPQFW	EAMLG	GFIVWATGNITVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDKE
10 Coelacanth	CPKFW	ELAMLG	GFIVWATGNITVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDPE
11 Zebrafish	PSKAH	EAMLG	GALWATGHVSAVP	VVKEFIGLGLGIL	WGSFNALTCWASSRFGWF	SLHPE
12 Skate	CPTFW	EAMIG	GFIVWATGNITVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDAQ
13 Lamprey	CPEFW	ELAMLG	GFIVWATGNIAVVP	IKTIGLGLGIL	WGSFNALTCWASSRFGWF	SLDPE
consensus/100%	ssphaPh	AMlGG	.lWATGplssVP	l1Kh1GLuLghl	lwsu.s.lhGWASSpFGHfGhc	.p
consensus/80%	sPpFW	PhAMlG	Gh1WATGNIs	VVP1lK1TIGLGLG	l1lWuShNh1hGWASSRFGWF	GLDSE



