

Conceptual Translation of Human TMEM144¹

<p>gtagaggggaatgagtcaggctccggctccacactggcacgtagtgggcgatcgcgcc ggcgctgagtaggaaggagcttcagccgccagcccggaacgcacatcataggttagcttttc aagacacttctctgcatctctgacctggtgcacctctgttatcttggcacctctgttatct tagcagcaagcacctgcctcagctgacccttgagccataaccataagctcctgaaaagt acatcaagtctaaagtgaaccagctaaactcattaagactggaatcatgagcaacaatgga M S N N G</p>	<p>58 118 Exon 1 Exon 2 178 238 Exon 2 Exon 3 298 Upstream in-frame stop 5</p>
<p>gcagacctaacctttggttacatctcctgttttgtagctatccttttgttggctcaaat A D L T F [G [Y I S C F V A I] L L F G S N 1a 2a]</p>	<p>358 25 TMEM 1[Int Repeat</p>
<p>ttgtgccacttaaaaaatttgatactggtgatggaatgtttctccagtggttctttgt F V P] L K K F D T G D G M F L Q W V L C</p>	<p>418 Exon 3 Exon 4 45 TMEM 2</p>
<p>gctgccatatggttggttgcccttggttgcaatctgatattacattgtccaaagttttgg A A I W L V A L V V N L I L H C [P K F W</p>	<p>478 65 TMEM 3 [Int Repeat 3a]</p>
<p>ccttttgcaatgcttgggggctgcatttgggcaacagggaacattgctggtgtcccaatt P F A M L G G] C I W A T G N I A V V [P I</p>	<p>538 Exon 4 Exon 5 85 [Int Repeat 4a]</p>
<p>atcaaaaccattggtttaggccttggaatcttaatctggggatcatttaatgccttaact I K T I G L G [L] G I L I W G S F N A L T</p>	<p>598 105 TMEM 4</p>
<p>ggctgggcaagctcaagggtttggctggtttggattggatgcagaagaagtatcaaatccg G W A S S R F G W F G L D A E E V S N [P</p>	<p>658 Exon 5 Exon 6 125 TMEM 5</p>
<p>ctgctaaattacattggagctgggctatcagtagtaagtgctttcatattttgttcac L L N Y I G A G L] S V V S A F I F L F I</p>	<p>718 Exon 6 Exon 7 145 [Int Repeat 4b]</p>
<p>aaaagtgaaataccaaataacacgtgttccatggataccactccattaataacagagcat K S E I P N N T C S M D T T P L I T E H</p>	<p>778 Exon 7 165</p>
<p>gtgatcaacacaaccaagaccctgttccctgggtggataaacttttctacagtacaccac [V I N T T Q D P C S W V D K L S T V H H</p>	<p>838 Exon 8 185 [Excluded in isoform 2]</p>
<p>cgcatagtgggctgcagctcttgcagtgatctctggagtactctatggatctacatttgtg R I V [G C S L A V I S G V L [Y G S T F V 1b 2b]</p>	<p>898 Exon 8 Exon 9 205 TMEM 6[Int Repeat</p>
<p>ccaatcatctacatcaaggaccacagcaaaagaaatgatagtatatatgcaggggcaagc</p>	<p>958</p>

¹ Translated NM_018342.5 mRNA sequence using Six-Frame Translation tool at Bioline
<https://www.bioline.com/media/calculator/01_13.html>.

P]_I] I Y I K D H S K R N D S I Y A G A S 225
 caatatgaatttagactatgtggttgccacttcagtgga**at**ctttcttacaagtactgtc 1018 Exon 9|Exon 10
 Q Y D L D Y **V F A H F S G I F L T S T V** 245 TMEM 7
 tactttctggcctactgcatagccatgaaaaatagtcctaaactatatcctgaagcagtc 1078
Y F L A Y C I A M K **N S** [**P K L Y P E A V**] 265 TMEM 8 [Int Repeat 3b]
 ctaccaggattcctgtcaggagtactttgggctatagctacctgctggttggttcatagca 1138 Exon 10|Exon 11
L P G] F L S G V L W A I A T C C W F I A 285
 aatcactctctgagtgctgtgggtcagttttccaataatcactgct**gg**gtccaggatttata 1198 Exon 11|Exon 12
N H S L S A V V S F P I I T A G P G F I 305 TMEM 9
 gctgcaatgtggggatcttcatgtttaaggaaataaa**gg**gtctacaaaactacctatta 1258 Exon 12|Exon 13
A A M W G I F M F K E I K G L Q N Y L L 325 TMEM 10
 atgatacttgcatctttgcatcatcttgactggagccttatgcactgctttttctaaaatc 1318
M I L A F C I I L T G A L C T A F S K I 345
 taacaatgacaaaaccagcaggtggcagcagtagttaagagaacgcgtctatcggacagc 1378
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