

Conceptual Translation of Human TMEM252

attctcttgagcaagcaggggaagcagaggagcagcaggggtcaggggtgctgggttcc^{taa} 60 *upstream stop*

ggtgcaaggatg^gcagaacagaactggcctcattctctgtgctcttgcctcctgatgggt 120
M Q N R T G L I L C A L A L L M G 17 *TM1; rpt1a, N-myr*

ttcctgatgggtctgcctgggggcttcttctcatttctgctggggctccatattcgactgtcag 180
F L M V C L G A F F I S W G S I F D C Q 37

gggagcctgattg^gcggcctatttgcttctgcctctgggggttgatccttctgagtgga 240
G S L I A A Y L L L P L G F V I L L S **G** 57 *TM2; rpt1b, N-myr*

atcttctggagcaactatcgccaggtgactgaaagcaaaggagtgttgaggcacatgctc 300
I F W S N Y R Q V T E **S** K G V L R H M L 77 *phos*

cgacaacaccttgctcatggggccctgcccgtggccacagtagacaggccagacttttac 360 *ex1|ex2*
R Q H L A H G A L P V A T V **D R P** D F Y 97

cctccagcttatgaagagagccttgaggtggaaaagcagagctgtcctgcagagagagag 420
P P A Y E E S L E V E K Q S C P A E R E 117 *disordered; rpt2a*

gcctctggcattcctccacctctatatacagagacgggcctggaattccaggatggaaat 480
A **S** G I P **P P** L **Y** T E T G L E F Q D G N 137 *phos*

gactcccaccagaggcccaccatcttatagagagtccatagccggcctggtggtgaca 540
D **S H P E** A **P P S Y R E S** I A G L V V T 157 *rpt2b, CK2 phos*
phos

gcaatctcagaggacgccagaggcgaggccaagagtgtga^gggcagagaaagctctcca 600
A I **S** E D A Q R R G Q E C * 170 *phos*

gcactcatgatgccaccactgtggggagcagctactgataataaaggcaaacgagggact 660
gtgggagggaaaagccacaccagggaccccacaagagagcttggggaggggatgacagccc 720
tgaattccagacataactggccatgccagggcagggcagggcaggggcccctggaagggtg 780
tggccaacaccaagcagacatttcagagcattcacactaatcttaaccccggctggcctt 840
gggtcccaaagggtgtcactctgagagctctgcttacagagattctttctgctgtcactc 900
aatttcctcccatcacctcaactccagccagggaggaatagatgctggttgtcaggaca 960
gccacatgccttctgttctatatacctagtaatctcaaagcgaaggtttggtgtttaa 1020
tttattgattgttcagccttttgtttgtagcttgtttcctagttacctccagctgacc 1080
atactaccagagtgaggcagtagtacttccatcctctgggagatagccctcggaacctatgaa 1140

```
tgttatTTTTgtattatTTTTatTTTTcatgatatgtatTTTTtctatgtaaaaggaaaatga 1200
ctgtaaatTTTTgccttcaagatggttcaaacacaaaatattaaatgagctgtttcttaaa 1260 poly(A) signal
a 1261
```

Key:

TM1: Transmembrane domain 1

TM2: Transmembrane domain 2

rpt1a/rpt1b: Repeat 1a and Repeat 1b (LI__L_L__GF)

rpt2a/rpt2b: Repeat 2a and Repeat 2b (PP_Y_ES)

N-myr: N-myristoylation site

Phos: Phosphorylation site

Disordered: Disordered region

CK2 phos: Casein kinase 2 phosphorylation site

poly(A) signal: Polyadenylation signal

Bolded: conserved amino acids