

## Product datasheet for **RG206385**

### **TMEM25 (NM\_032780) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM25 (NM_032780) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206385 representing NM_032780 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTGCCTCCAGGCCAGCCGCCCTCCGGCACACACTGCTGCTCCTGCCAGCCCTTCTGAGCTCAG  
GTTGGGGGGAGTTGGAGCCACAAATAGATGGTCAGACCTGGGCTGAGCGGGCACTTCGGGAGAATGAACG  
CCACGCCCTTACCTGCCGGTGGCAGGGGGCCCTGGCACCCCCAGATTGGCCTGGTATCTGGATGGACAG  
CTGCAGGAGGCCAGCACCTCAAGACTGCTGAGCGTGGGAGGGGAGGCCTTCTCTGGAGGCCAGCACCT  
TCACTGTCACCTGCCATCGGGCCAGCATGAGCTCAACTGCTCTCTGCAGGACCCAGAAGTGCCCGATC  
AGCCAACGCCTCTGTATCCTTAATGTGCAATTCAAGCCAGAGATTGCCCAAGTCGGCGCCAAGTACCAG  
GAAGCTCAGGGCCAGGCCTCCTGGTTGTCTGTTTGGCCCTGGTGCCTGCCAACCAGCCGGCCAATGTCA  
CCTGGATCGACCAGGATGGGCCAGTGACTGTCAACACCTCTGACTTCTGGTGTGGATGCGCAGAACTA  
CCCCTGGCTCACCAACCACCGGTGCAGCTGCAGCTCCGCAGCCTGGCACACAACCTCTCGGTGGTGGCC  
ACCAATGACGTGGGTGTACCAGTGCCTCGCTTCCAGCCCGAGGCTTCTGGCTACCCGGGTGGAAGTGC  
CACTGCTGGGCATTGTTGTGGCTGCTGGGCTTGCAGTGGGCACCCCTCGTGGGGTTACGACCTTGGTGGC  
CTGCCTGGTCTGCAGAAAAGAGAAGAAAACCAAGGCCCTCCCGCACCCATCTCTGATATCAAGTGC  
TCCAACAACCTAAAACCTAACAACGTGCGCTGCCACGGGAGAACATGTCCCTCCCGTCCAACCTTCAGC  
TCAATGACCTCACTCCAGATTCCAGAGCAGTGAACCAGCAGACCGGCAGATGGCTCAGAACACAGCCG  
GCCAGAGCTTCTGGACCCGGAGCCCGGGCGCTCCTCACCAGCCAAGGTTTCATCCGCCTCCAGTGTCTG  
GGCTATATCTATCGAGTGTCCAGCGTGAGCAGTGATGAGATCTGGCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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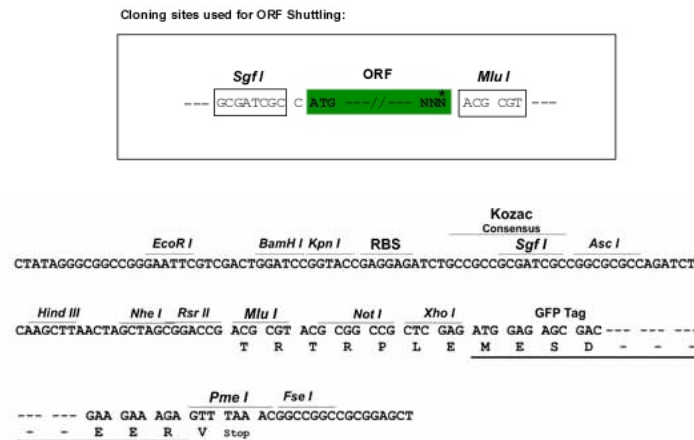
**Protein Sequence:** >RG206385 representing NM\_032780  
 Red=Cloning site Green=Tags(s)

MALPPGPAALRHTLLLLPALLSSGWGELEPQIDGQTWAERALRENERHAFTCRVAGGPGTPRLAWYLDGQ  
 LQEASTSRLLSVGGEAFSGGTSTFTVTAHRAQHELNCSLQDPRSGRSANASVILNVQFKPEIAQVGAKYQ  
 EAQGPGLLVLFALVRANPPANVTWIDQDGPVTVNTSDFLVLDAQNYPWLTNHTVQLQLRSLAHNLSVVA  
 TNDVGVTSASLPAPGLLATRVEVPLLGIVVAAGLALGTLVGFSTLVAQLVCRKEKKTGKPSRHPSLISSD  
 SNNLKLNNVRLPRENMSLPSNLQLNDLTPDSRAVKPADRQMAQNNSRPELLDPEPGLLTSQGFIRLPVL  
 GYIYRVSSVSSDEIWL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032780

**ORF Size:** 1098 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_032780.4](#)

**RefSeq Size:** 2491 bp

**RefSeq ORF:** 1101 bp

**Locus ID:** 84866

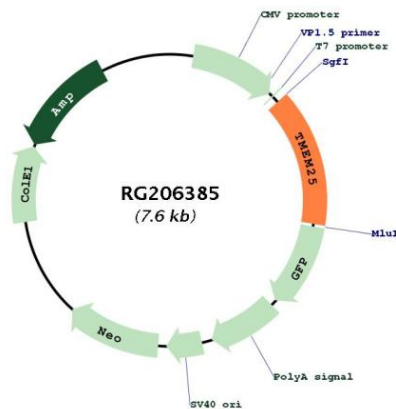
**UniProt ID:** [Q86YD3](#)

**Cytogenetics:** 11q23.3

**Protein Families:** Transmembrane

**Gene Summary:** In neurons, modulates the degradation of NMDA receptor GRIN2B subunit. Plays a role in the regulation of neuronal excitability.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206385