

Product datasheet for **RG227471**

TMEM25 (NM_001144037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM25 (NM_001144037) 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:	>RG227471 representing NM_001144037 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGCCTCCAGGCCAGCCGCCCTCCGGCACACACTGCTGCTCCTGCCAGCCCTTCTGAGCTCAG
GTTGGGGGGAGTTGGAGCCACAAATAGATGGTCAGACCTGGGCTGAGCGGGCACTTCGGGAGAATGAACG
CCACGCCCTTACCTGCCGGTGGCAGGGGGCCCTGGCACCCCCAGATTGGCCTGGTATCTGGATGGACAG
CTGCAGGAGGCCAGCACCTCAAGACTGCTGAGCGTGGGAGGGGAGGCCTTCTCTGGAGGCCACCAGCACCT
TCACTGTCACTGCCCATCGGGCCAGCATGAGCTCAACTGCTCTCTGCAGGACCCAGAAGTGGCCGATC
AGCCAACGCCTCTGTATCCTTAATGTGCAATCAAGCCAGAGATTGCCCAAGTCGGCGCCAAGTACCAG
GAAGCTCAGGGCCAGGCCTCCTGGTTGTCTGTTTGGCCCTGGTGCCTGCAACCCCGCCGCAATGTCA
CCTGGATCGACCAGGATGGGCCAGTACTGTCAACACCTCTGACTTCTGGTGTGGATGCGCAGAACTA
CCCCTGGCTCACCAACCACCGTGCAGCTGCAGCTCCGCAGCCTGGCACACAACCTCTCGGTGGTGGCC
ACCAATGACGTGGGTGTACCAGTGCCTGCTTCCAGCCCGAGGCTTCTGGCTACCCGGGTGGAAGTGC
CACTGCTGGGCATTGTTGTGGCTGCTGGGCTTGCAGTGGCCACCCCTCGTGGGGTTACGACCTTGGTGGC
CTGCCTGGTCTGCAGAAAAGAGAAGAAAACCAAGGCCCTCCCGCACCCATCTCTGATATCAAGTGC
TCCAACAACCTAAAACCTAACAACGTGCGCTGCCACGGGAGAACATGTCCCTCCCGTCCAACCTTCAGC
TCAATGACCTCACTCCAGATTCCAGAGCAGTGAACCAGCAGACCGGCAGATGGCTCAGAACACAGCCG
GCCAGAGCTTCTGGACCCGGAGCCCGGGCCCTCCTCACCAGCCAAGGAAGAAGAAATCAGGACAAAGAC
GCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227471 representing NM_001144037
Red=Cloning site Green=Tags(s)

MALPPGPAALRHTLLLLPALLSSGWGELEPQIDGQTWAERALRENERHAFTRVAGGPGTPRLAWYLDGQ
 LQEASTSRLLSVGGAEFSGGTSTFTVTAHRAQHELNCSLQDPRSGRSANASVILNVQFKPEIAQVGAKYQ
 EAQGPGLLVLFALVRANPPANVTWIDQDGPVTVNTSDFLVLDAQNYPWLTNHTVQLQLRSLAHNLSVVA
 TNDVGVTSASLPAPGLLATRVEVPLLLGI VVAAGLALGTLVGFSTLVAQLVCRKEKTKGSPSRHPSLISDD
 SNNLKLNNVRLPRENMSLPSNLQLNDLTPDSRAVKPADRQMAQNNSRPELLDPEPGGLLTSQGRRNQDKD
 A

TRTRPLE - GFP Tag - V

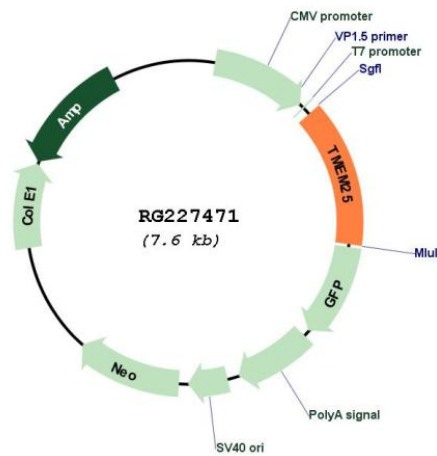
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001144037

ORF Size:	1053 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:	<ol style="list-style-type: none">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_001144037.2
RefSeq Size:	1681 bp
RefSeq ORF:	1056 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]