

Product datasheet for RC227489

TMEM25 (NM_001144038) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM25 (NM_001144038) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227489 representing NM_001144038 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGCCTCCAGGCCAGCCGCCCTCCGGCACACTGCTGCTCCTGCCAGCCCTTCTGAGCTCAG
GTTGGGGGGAGTTGGAGCCACAAATAGATGGTCAGACCTGGGCTGAGCGGGCACTTCGGGAGAATGAACG
CCACGCCCTTACCTGCCGGTGGCAGGGGGCCCTGGCACCCCCAGATTGGCCTGGTATCTGGATGGACAG
CTGCAGGAGGCCAGCACCTCAAGACTGCTGAGCGTGGGAGGGGAGGCCTTCTCTGGAGGCCAGCACCT
TCACTGTCAGTCCCATCGGGCCAGCATGAGCTCAACTGCTCTCTGCAGGACCCAGAAGTGCCCGATC
AGCCAACGCCTCTGTATCCTTAATGTGCAATCAAGCCAGAGATTGCCCAAGTCGGCGCCAAGTACCAG
GAAGCTCAGGGCCAGGCCTCCTGGTTGTCTGTTTGGCCCTGGTGCCTGCAACCCCGCCGCAATGTCA
CCTGGATCGACCAGGATGGGCCAGTACTGTCAACACCTCTGACTTCTGGTGTGGATGCGCAGAACTA
CCCCTGGCTCACCAACCACCGGTGCAGCTGCAGCTCCGCAGCCTGGCACACAACCTCTCGGTGGTGGCC
ACCAATGACGTGGGTGTACCAGTGCCTCGCTTCCAGCCCGAGCCCTCCCGGCACCCATCTCTGATAT
CAAGTACTCAACAACCTAAACTCAACAACGTGCGCCTGCCACGGGAGAACATGTCCCTCCCGTCCAA
CCTTCAGCTCAATGACCTCACTCCAGATCCAGAGTCAAACCAGCAGACCGGCAGATGGCTCAGAACAAC
AGCCGGCCAGAGCTTCTGGACCCGAGCCCGGCGCCTCCTCACCAGCCAAGGAAGAAGAAATCAGGACA
AAGACGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC227489 representing NM_001144038
Red=Cloning site Green=Tags(s)

MALPPGPAALRHTLLLLPALLSSGWGELEPQIDGQTWAERALRENERHAFTRVAGGPGTPRLAWYLDGQ
 LQEASTSRLLSVGGAEFSGGTSTFTVTAHRAQHELNCSLQDPRSGRSANASVILNVQFKPEIAQVGAKYQ
 EAQGPGLLVVLFALVRANPPANVTWIDQDGPVTVNTSDFLVLDAQNYPWLTNHTVQLQLRSLAHNLSVVA
 TNDVGVTSASLPAPGPSRHPSLISSDSNLKLNNVRLPRENMSLPSNLQLNDLTPDSRVKPADRQMAQNN
 SRPELLDPEPGLLTSQGRRNQDKDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001144038

ORF Size: 918 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_001144038.2](#)

RefSeq ORF: 921 bp

Locus ID: 84866

UniProt ID: [Q86YD3](#)

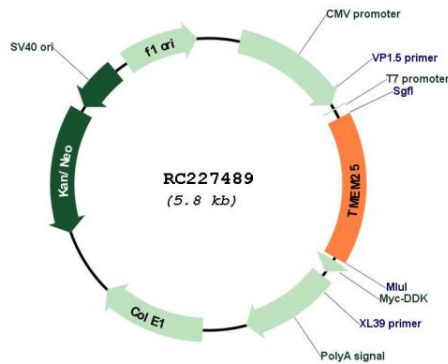
Cytogenetics: 11q23.3

Protein Families: Transmembrane

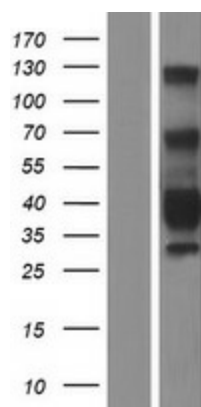
MW: 32.8 kDa

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 RC227489



Western blot validation of overexpression lysate (Cat# [LY428484]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227489 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).