

## Product datasheet for **SC325745**

### TMEM25 (NM\_001144038) Human Untagged Clone

#### Product data:

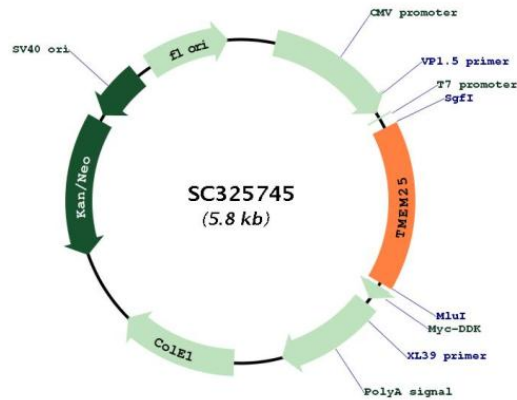
Product Type:	Expression Plasmids
Product Name:	TMEM25 (NM_001144038) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325745 representing NM_001144038. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCTGCCTCCAGGCCAGCCGCCCTCCGGCACACACTGCTGCTCCTGCCAGCCCTTCTGAGCTCA
GGTTGGGGGAGTTGGAGCCACAATAGATGGTCAGACCTGGGCTGAGCGGGCACTTCGGGAGAATGAA
CGCCACGCCTTACCTGCCGGTGGCAGGGGGCCTGGCACCCAGATTGGCCTGGTATCTGGATGGA
CAGCTGCAGGAGGCCAGCACCTCAAGACTGCTGAGCGTGGGAGGGGAGGCCTTCTCTGGAGGCACAGC
ACCTTCACTGCTACTGCCATCGGGCCAGCATGAGCTCAACTGCTCTCTGCAGGACCCAGAAGTGGC
CGATCAGCCAACGCCTGTGTCATCCTTAATGTGCAATTAAGCCAGAGATTGCCAAGTCGGCGCCAAG
TACCAGGAAGCTCAGGGCCAGGCCTCCTGGTTGTCTGTTTGCCTGGTGCCTGCCAACCCGCGGCC
AATGTCACCTGGATCGACCAGGATGGGCCAGTGACTGTCAACACCTCTGACTTCTGGTGTGGATGCG
CAGAACTACCCCTGGCTACCAACCACACGGTGCAGCTGCAGCTCCGCAGCCTGGCACACAACCTCTCG
GTGGTGGCCACCAATGACGTGGGTGTCACCAGTGCCTCGCTTCCAGCCCCAGGCCCTCCCGGCACCCA
TCTCTGATATCAAGTACTCCAACAACCTAAAACCTCAACAACGTGCGCCTGCCACGGGAGAACATGTCC
CTCCCGTCCAACCTTCACTCAATGACCTCACTCCAGATTCCAGAGTGAAACCAGCAGACCGGCAGATG
GCTCAGAAACAACAGCCGGCCAGAGCTTCTGGACCCGGAGCCGGCGCCCTCCTACCAGCCAAGGAAGA
AGAAATCAGGACAAAGACGCATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001144038

**Insert Size:** 921 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001144038.1](#)

**RefSeq Size:** 1546 bp

RefSeq ORF: 921 bp

Locus ID: 84866

UniProt ID: [Q86YD3](#)

Cytogenetics: 11q23.3

Protein Families: Transmembrane

MW: 33 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]

Transcript Variant: This variant (5) lacks an in-frame exon and differs in the 3' UTR and coding sequence compared to variant 7. The resulting isoform (5) lacks an alternate internal segment and has a shorter and distinct C-terminus compared to isoform 6.