

Product datasheet for **RG226828**

TMEM51 (NM_001136217) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM51 (NM_001136217) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM51
Synonyms:	C1orf72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226828 representing NM_001136217. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGGCCAGTCCAAGGCCAATGGCTCGCACTATGCGCTGACCGCCATCGGCCTGGGGATGCTGGTC
CTTGGGGTGATCATGGCCATGTGGAACCTGGTACCCGGCTTCAGCGCGGCCGAGAAGCCAACAGCTCAG
GGCAGCAACAAGACCGAGGTGGGTGGCGGCATCCTCAAGAGCAAGACCTTCTCTGTGGCTACGTGCTG
GTCGGGGCCGGGTGATGCTGCTGCTGCTTTCTATCTGCCTGAGTATCAGGGATAAGAGGAAGCAGCGG
CAGGGCGAGGACCTGGCCATGTCCAGCACCCGACAGGCGCTGGGCCTCACGCCAGGAGGAAGACAGC
CAGGAGGAAGAAGAGGAGGATGAGGAGGCTGCCTCAAGTACTATGTTCCAGCTACGAGGAAGTGATG
AACACAACTACTCAGAAGCAAGGGGAGAGGAGCAGAACCCGAGGTTGAGCATCTCTCCCGTCCCTAT
GAGTCACTGACGGGGCTCGACGAGACCACCCACATCCACCAGGGCTGACGTGGAGGCCAGCCCTGGG
AACCCCTGACAGGCAGAACTCTAAGTTGGCCAAACGACTGAAACCACTGAAAGTTCGAAGGATTTAAA
TCTGAAAAGCTTCACCTCAAAGACTTTAGGATCAACCTCCCAGACAAAACGTCCTCCTCCCTCGATA
GAGCCTTTGACTCCTCCACCGCAGTATGATGAAGTCCAGGAGAAGGCCCCGACACCCGGCCGCCCGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



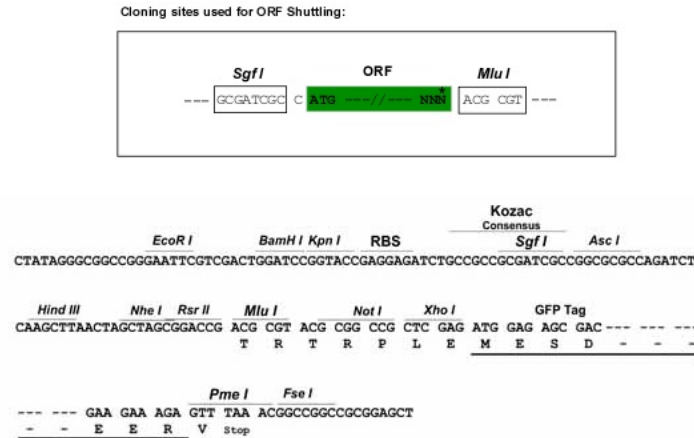
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG226828
 Blue=ORF Red=Cloning site Green=Tag(s)

MMAQSKANGSHYALTAIGLGMLVLGVIMAMWNLVPGFSAAEKPTAQGSNKTEVGGGILKSKTF SVAYVL
 VGAGVMLLLLSICLSIRDKRKQRQGEDLAHVQHPTGAGPHAQEEDSQEEEEDEEAASRYVYVPSYEEVM
 NTNYSEARGEQNPRLSISLPSYESLTGLDETTPTSTRADVEASPGNPPDRQNSKLAKRLKPLKVRRIK
 SEKLHLKDFRINLPDKNVPPPSIEPLTPPPQYDEVQEAPDTRPPD
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136217

ORF Size: 759 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 Size: 1958 bp

RefSeq ORF: 762 bp

Locus ID: 55092

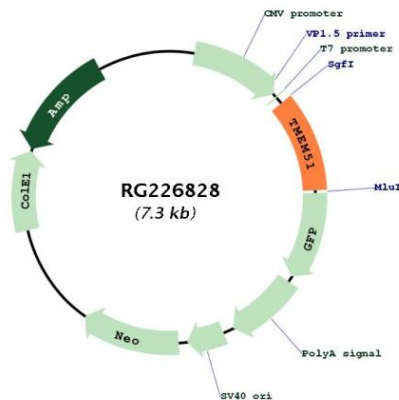
UniProt ID: [Q9NW97](https://www.uniprot.org/uniprot/Q9NW97)

Cytogenetics: 1p36.21

Protein Families: Transmembrane

MW: 27.8 kDa

Product images:



Circular map for RG226828