

Product datasheet for **RG216927**

TMEM97 (NM_014573) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM97 (NM_014573) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TMEM97
Synonyms: MAC30
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216927 representing NM_014573
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGGCTCCGGCAACCAGGCGCTGCGTGGAGTGGTGCTGGGCTCTACTTCCTCAGCCACATCCCCA
 TCACCCTGTTTCATGGACCTGCAGCGGTGCTGCCGCGGAGCTCTACCCAGTCGAGTTTAGAAACCTGCT
 GAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCCCAGCCTGGTTAAGTCCTTTCTG
 TTTTTCGAGCTTGTGTTTCAGCTGCCTTTCTTTCCATTGCAACGTATGCCTTCCTCAAAGGAAGCTGCA
 AGTGGATTGGAACCTCCTCAATCATCTACTCTGTTACACCATGACAACCTTAATCCGATACTCTCCAC
 ATTTCTGTTTGGGATTCTCAAAGCCAGTGGTTTCAAGGGACAAAGACCTGAGACTTTGCATGAACGG
 TTAACCCTTGTCTGTCTATGCCCCCTACTTACTCATCCATTCATACTTTAATTTTCATGTTGCGGA
 GCCCTACTACAAGTATGAAGAGAAAAGAAAAAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216927 representing NM_014573
 Red=Cloning site Green=Tags(s)

MGAPATRRVWLLGLYFLSHIPITLFDLQAVLPRELYPVEFRNLLKWKYAKEFKDPLLQEPWAFKSF
 FCELVFQLPFFPIATYAFKGSCKWIRTPAIIYSVHTMTLIPILSTFLFEDFSKASGFKQRPETLHER
 LTLVSVYAPYLLIPFILLIFMLRSPYYKYEKRKKK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_014573

ORF Size: 528 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_014573.3](#)

RefSeq Size: 2585 bp

RefSeq ORF: 531 bp

Locus ID: 27346

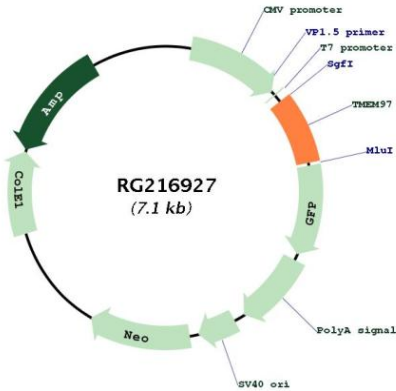
UniProt ID: [Q5BJF2](#)

Cytogenetics: 17q11.2

Protein Families: Transmembrane

Gene Summary: TMEM97 is a conserved integral membrane protein that plays a role in controlling cellular cholesterol levels (Bartz et al., 2009 [PubMed 19583955]).[supplied by OMIM, Aug 2009]

Product images:



Circular map for RG216927