

Product datasheet for **RG223501**

TMEM107 (NM_032354) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMEM107
Synonyms:	GRVS638; JBTS29; MKS13; PRO1268
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223501 representing NM_032354
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGGGTCTCAGGGCTTGTCCTCTCGCTTCCTGACGCTCCTGGCGCATCTGGTGGTCGTCATCA
CCTTATTCTGGTCCCGGACAGCAACATACAGGCCTGCCTGCCTCTCACGTTACCCCCGAGGAGTATGA
CAAGCAGGACATTCACCACTTCTCTGCAGGCTGGTGGCCGCGCTCTGTCAACCCTGGGCTCTTT
GCAGTGGAGCTGGCCGGTTTCTCTCAGGAGTCTCCATGTTCAACAGCACCCAGAGCCTCATCTCCATTG
GGGCTCACTGTAGTGCATCCGTGGCCCTGTCTTCTTCATATTCGAGCGTTGGGAGTGCACCTACGTATTG
GTACATTTTGTCTTCTGCAGTGCCCTTCAGCTGTCACCTGAAATGGCTTTATTCGTCACCGTCTTTGGG
CTGAAAAGAAACCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223501 representing NM_032354
Red=Cloning site Green=Tags(s)

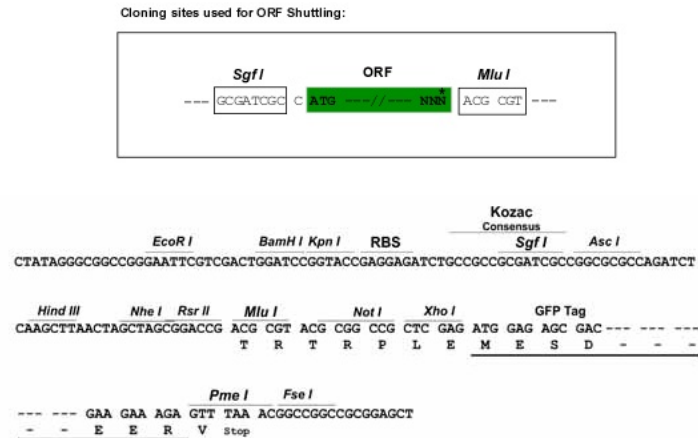
MGRVSLVPSRFLTLLAHLVVVITLFWSRDSNIQACLPLTFTPEEYDKQDIHPLPLCRLVAALSVTLGLF
AVELAGFLSGVSMFNSTQSLISIGAHCSASVALSFFIFERWECTTYWYIFVFCALPAVTEMALFVTVFG
LKKKPF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_032354

ORF Size: 438 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

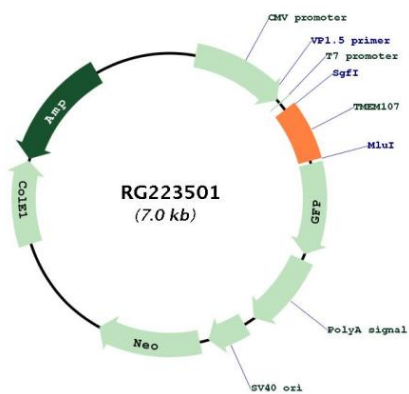
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032354.5
RefSeq Size:	1533 bp
RefSeq ORF:	441 bp
Locus ID:	84314
UniProt ID:	Q6UX40
Cytogenetics:	17p13.1
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a transmembrane protein and component of the primary cilia transition zone. The encoded protein regulates ciliogenesis and ciliary protein composition. Human fibroblasts expressing a mutant allele of this gene exhibit reduced numbers of cilia, altered cilia length, and impaired sonic hedgehog signaling. In human patients, different mutations in this gene cause different ciliopathies, including Meckel-Gruber syndrome and orofacioidigital syndrome. [provided by RefSeq, May 2017]

Product images:



Circular map for RG223501