

Product datasheet for **RC223559**

TMEM107 (NM_183065) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM107 (NM_183065) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM107
Synonyms:	GRVS638; JBTS29; MKS13; PRO1268
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223559 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCGGGTCTCAGGGCTTGTGCCCTCTCGCTTCTGACGCTCCTGGCGCATCTGGTGGTCGTCATCA
CCTTATTCTGGTCCCGGACAGCAACATACAGGCTGCCTGCCTCACGTTACCCCCGAGGAGTATGA
CAAGCAGGACATTCAGCTGGTGGCCGCTCTCTGTCACCCTGGGCTCTTTGCAGTGGAGCTGGCCGT
TTCTCTCAGGAGTCTCCATGTTCAACAGCACCCAGAGCCTCATCTCCATTGGGGCTCACTGTAGTGCAT
CCGTGGCCCTGTCCTTTCATATTCGAGCGTTGGGAGTGCCTACGTATTGGTACATTTTGTCTTCTG
CAGTGCCTTCCAGCTGTCACTGAAATGGCTTTATTCGTACCCTTTGGGCTGAAAAAGAACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC223559 protein sequence Red=Cloning site Green=Tags(s)
-------------------	--

MGRVSGLVPSRFLTLLAHLVVVITLFWSRDSNIQAQLPLFTTPEEYDKQDIQLVAALSVTLGLFAVELAG
FLSGVSMFNSTQSLISIGAHCSASVALSFFIFERWECTTYWYIFVFCALPAVTEMALFVTVFGLKPKPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6452_e09.zip
----------------	---

Restriction Sites:	Sgfl-Mlul
--------------------	-----------



[View online »](#)

Cloning Scheme:


ACCN: NM_183065

ORF Size: 420 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_183065.4](#)

RefSeq Size: 1758 bp

RefSeq ORF: 423 bp

Locus ID: 84314

UniProt ID: [Q6UX40](#)

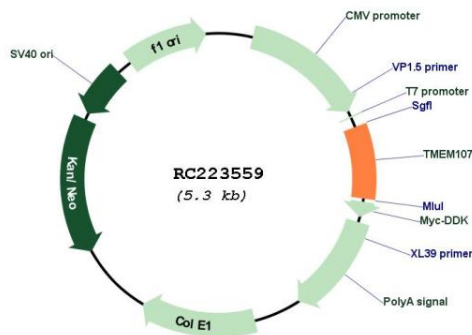
Cytogenetics: 17p13.1

Protein Families: Transmembrane

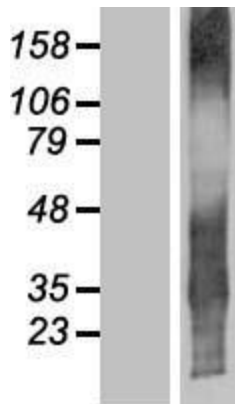
MW: 15.5 kDa

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 RC223559



Western blot validation of overexpression lysate (Cat# [LY405226]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223559 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).