

Product datasheet for **RG202671**

TMEM138 (NM_016464) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: TMEM138
Synonyms: HSPC196
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202671 representing NM_016464
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCAGACCAGTAACCTACAGCCTGGTGTCTCTCTGCAGTTCCTGCTGCTGCTCCTATGACCTCTTTG
TCAATTCCTTCTCAGAACTGCTCCAAAAGACTCCTGTCATCCAGCTTGTGCTCTTCATCATCCAGGATAT
TGCAGTCCCTCTCAACATCATCATTTTCTCATGTTCTTCAACACCTTCGTCTTCCAGGCTGGCCTG
GTCAACCTCCTATTCCATAAGTTCAAAGGGACCATCATCTGACAGCTGTGTACTTTGCCCTCAGCATCT
CCCTTCATGTCTGGGTCTGAACTTACGCTGGAAAACTCCAACAGCTTCATATGGACAGATGGACTTCA
AATGCTGTTTGTATTCCAGAGACTAGCAGCAGTGTGTACTGCTACTTCTATAAACGGACAGCCGTAAGA
CTAGGCGATCCTCACTTCTACCAGGACTCTTTGTGGCTGCGCAAGGAGTTCATGCAAGTTCGAAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202671 representing NM_016464
Red=Cloning site Green=Tags(s)

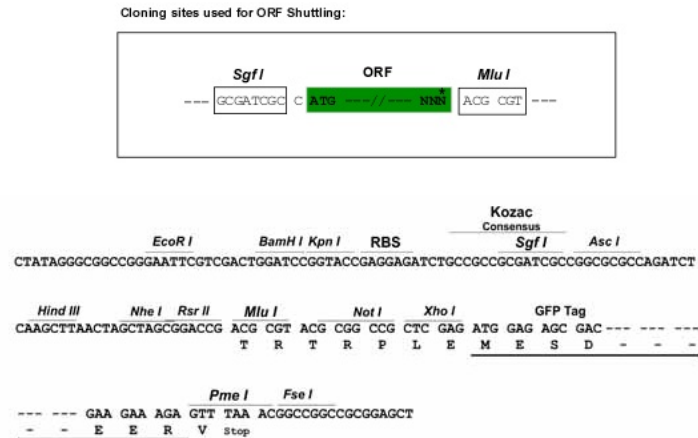
MLQTSNYSVLVLSLQFLLSYDLFVNSFSELLQKTPVIQLVLFIIQDIIVFNIIIFLMFFNTFVFQAGL
VNLLFHKFGTIILTAVYFALSISLHVVMNLRWKNNSFIWTDGLQMLFVFQRLAAVLICYFYKRTAVR
LGDPHFYQDSLWLRKEFMQVRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_016464

ORF Size: 486 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016464.5](#)

RefSeq Size: 1193 bp
 RefSeq ORF: 489 bp
 Locus ID: 51524

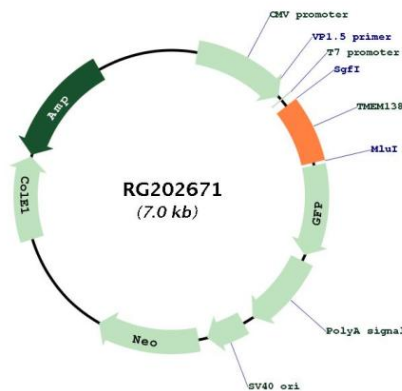
UniProt ID: Q9NPI0

Cytogenetics: 11q12.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a multi-pass transmembrane protein. Reduced expression of this gene in mouse fibroblasts causes short cilia and failure of ciliogenesis. Expression of this gene is tightly coordinated with expression of the neighboring gene TMEM216. Mutations in this gene are associated with the autosomal recessive neurodevelopmental disorder Joubert Syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RG202671