

Product datasheet for **RG222491**

TMC2 (NM_080751) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMC2 (NM_080751) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMC2
Synonyms:	C20orf145
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG222491 representing NM_080751
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

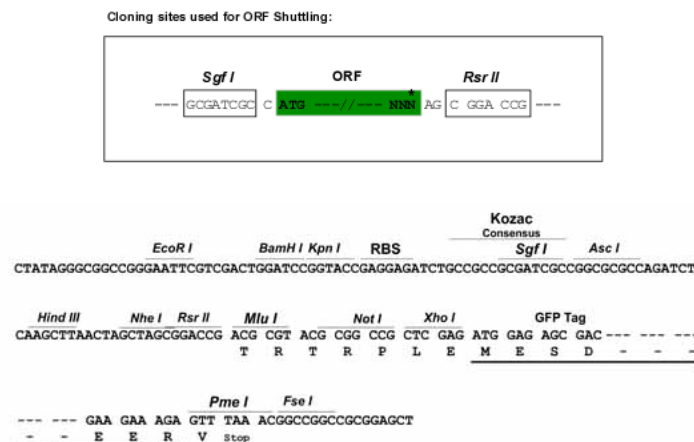
Protein Sequence: >RG222491 representing NM_080751
 Red=Cloning site Green=Tags(s)

MSHQVKGLKEEARGGVKGRVKSQSPHTGDRLGRRSSSKRALKAEGTPGRRGAQRSQKERAGGSPSPGSPR
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SGPTRRRLE - GFP Tag - V

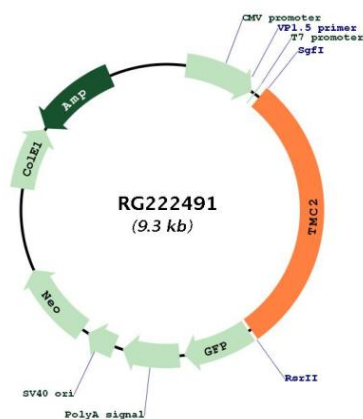
Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN:	NM_080751
ORF Size:	2718 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_080751.2 , NP_542789.2
RefSeq Size:	3169 bp
RefSeq ORF:	2721 bp
Locus ID:	117532
UniProt ID:	Q8TDI7
Cytogenetics:	20p13
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a transmembrane protein that is necessary for mechanotransduction in cochlear hair cells of the inner ear. Mutations in this gene may underlie hereditary disorders of balance and hearing. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RG222491