

Product datasheet for **RG200858**

TIMM22 (NM_013337) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TIMM22 (NM_013337) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TIMM22
Synonyms: COXPD43; TEX4; TIM22
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200858 representing NM_013337
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCGGCCGCCCAATGCCGGAGGCTCGGCCCTGAGACAGCGGGTTCGCCGAAGCTCCGCTGC
 AGTACAGCCTGCTCCTGCAGTACCTGGTGGGTGACAAGCGTCAGCCCCGGCTCCTGGAGCCTGGGAGCCT
 GGGCGGGATCCCAAGTCCAGCCAAGAGTGAGGAGCAGAAGATGATCGAGAAGGCGATGGAAGCTGCGCT
 TTCAAGGCTGCGCTGGCTGCGTGGGAGGATTTGTCTTAGGAGGTGCATTGGGGTGTTCACGCTGGCA
 TCGATACCAACGTGGGCTTTGACCCTAAGGATCCTTACCGTACACCGACTGCAAAAGAAGTGCTGAAAGA
 CATGGGGCAGAGAGGAATGTCTATGCCAAAATTTCCGCCATTGTGGGAGCCATGTTTTCTGTACTGAG
 TGTTTGATAGAATCTTACCGGGGAACATCAGACTGGAAGAACAGTGTCATCAGTGGCTGCATCACGGGAG
 GAGCTATTGGTTTCAGAGCTGGCTTAAAGGCTGGGGCCATTGGTTGTGGAGGTTTTGCTGCTTTCTCTGC
 TCGGATTGATTATTACCTCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200858 representing NM_013337
 Red=Cloning site Green=Tags(s)

MAAAPNAGGSAPETAGSAEAPLQYSLLLQYLVGDKRQPRLLPEGSLGGIPSPAKSEEQKMIKAMESCA
 FKAALACVGGFVLGGAFGVFTAGIDTNVGFDPKDPYRTPTAKEVLKDMGQRGMSYAKNFAIVGAMFSCTE
 CLIESYRGTSWKNVSGCITGGAIGFRAGLKAGAIGCGGFAAFSAIDYYLR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_013337

ORF Size: 582 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_013337.4](#)

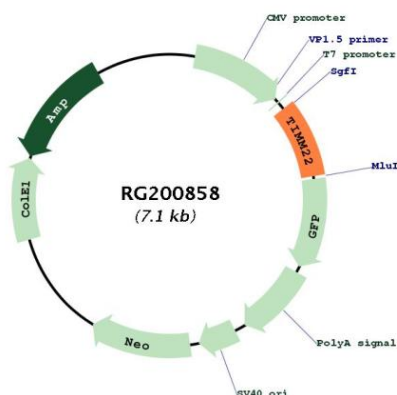
RefSeq Size: 1691 bp

RefSeq ORF: 585 bp

Locus ID: 29928

UniProt ID:	Q9Y584
Cytogenetics:	17p13.3
Domains:	Tim17
Protein Families:	Transmembrane
Gene Summary:	Multipass transmembrane proteins are brought into mitochondria and inserted into the mitochondrial inner membrane by way of the TIM22 complex. This complex has six subunits and is a twin-pore translocase. The protein encoded by this gene is a subunit of TIM22 and represents the voltage-activated and signal-gated channel. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG200858