

Product datasheet for **MG218998**

Rtp4 (NM_023386) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtp4 (NM_023386) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rtp4
Synonyms:	5830458K16Rik; Ifrg28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218998 representing NM_023386 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTCCCCGATGACTTCAGTACTTGGGAGCAGACATTTCAAGAAGTGCAGGAGGAGAAGCCCG
GGGCCAAGTGGAGCCTGCATTTGGATAAGAACATTGTACCAGATGGTGCAGCCCTGGGATGGAGGCAGCA
CCAGCAGACAGTGCTTGGCAGGTTCCAGTGTCCAGATGCTGCAGAAGTTGGACCTCTGCTCAGGTGATG
ATCTTGTGCCACATGTACCCGGACACTTTGAAATCGCAGGGCCAGGCACGCATGAGGATCTTTGGTCAGA
AGTGCCAGAAGTGTGGATGTCAATTTGAGACTCCCAAGTTCTCCACAGAGATCATCAAAGAATTCT
GAATAACCTAGTTAATTATATTCTGCAGAGATACTATGGACACAGGAAGATAGCATTGACCTCGAATGCA
TCTTTGGGTGAGAAGGTGACTTTGGATGGGCCCCACGACACGCAATTGTGAGGCATGCAGTCTAACT
CTCATGGAAGATGTGCCCTTGCACACAAAGTAAAACCACCCAGATCTCCATCTCCATTACCAAAGAGTTC
CTCCCCATCAAAGAGCTGCCCTCCTCCGCTCAGACCCGGAATACGGATTTTGGGAATAAACTTTTCAG
GATTTTGGGAATAGAATTTTCAGGGATGCAGAGAGCCCCCAACGTGAAATAGAGCCACCACCTATTTCT
TGTTTTGTCTATTGCTGCATTTGCCCTTTTAGTCTTTTCACTAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218998 representing NM_023386
 Red=Cloning site Green=Tags(s)

MLFPDDFSTWEQTFQELMQEEKPGAKWSLHLDKNI VPDGAALGWRQHQQTVLGRFQCSRCCRSWTS AQVM
 ILCHMYPDTLKSQGQARMRIFGQKCKFCGQCFETPKFSTEIIKRILNVLVNYILQRYYGHRKIALTSNA
 SLGEKVTL DGP HDTRNCEACSLNSHGRCALAHKVKPPRSP SPLPKSSSPSKSCPPPPQTRNTDFGNKTFQ
 DFGNRTFQGCREPPQREIEPPLFLFLSIAAFALFLSIFTR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023386

ORF Size: 747 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_023386.5](#), [NP_075875.3](#)

RefSeq Size: 1573 bp

RefSeq ORF: 750 bp

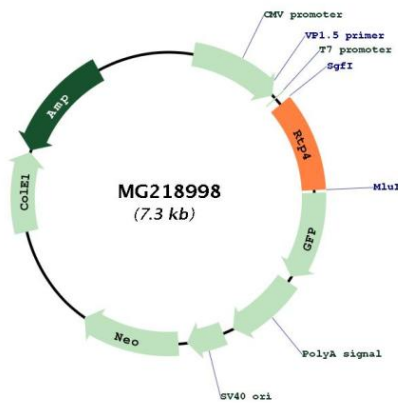
Locus ID: 67775

UniProt ID: [Q9ER80](#)

Cytogenetics: 16 B1

Gene Summary: Probable chaperone protein which facilitates trafficking and functional cell surface expression of some G-protein coupled receptors (GPCRs). Promotes functional expression of the bitter taste receptor TAS2R16 (By similarity). Also promotes functional expression of the opioid receptor heterodimer OPRD1-OPRM1 (PubMed:18836069).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218998