

Product datasheet for **RG204543**

RTP4 (NM_022147) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTP4 (NM_022147) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RTP4
Synonyms:	IFRG28; Z3CXXC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204543 representing NM_022147 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGTAGATTTCTGGACTTGGGAGCAGACATTTCAAGAACTAATCCAAGAGGCAAACCCGGGCCA
CATGGACGCTGAAGTTGGATGGCAACCTTCAGCTAGACTGCCTGGCTCAAGGGTGAAGCAATACCAACA
GAGAGCATTTGGCTGGTCCGGTGTTCCTCCTGCCAGCGAAGTTGGCTCCGCCAAGTGCAGATTCTG
TGCCACACGTAAGGAGCACTGGACATCCAGGGTCAGGTGCGTATGAGGCTCTTTGGCCAAAGGTGCC
AGAAGTGCTCCTGGTCCCAATATGAGATGCCTGAGTTCTCCTCGGATAGCACCATGAGGATTCTGAGCAA
CCTGGTGCAGCATATACTGAAGAAATACTATGGAATGGCATGAGGAAGTCTCCAGAAATGCCAGTAATC
CTGGAAGTGCCCTGGAAGGATCCCATGACACAGCCAATTGTGAGGCATGCACTTTGGGCATATGTGGAC
AGGGCTTAAAAAGCTACATGACAAAGCCGTCCAAATCCCTACTCCCCACCTAAAGACTGGGAATTCCTC
ACCTGGAATTGGTGTGTACCTCGCAAACCAAGCCAAGAACCAGTCAGATGAGGCAAAAGAGGCTAAG
GGGAGTGGGTATGAGAAATTAGGGCCAGTCGAGACCCAGATCCACTGAACATCTGTGTCTTTATTTTGC
TGCTTGATTTATTGTAGTCAAATGCTTTACATCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204543 representing NM_022147
 Red=Cloning site Green=Tags(s)

MVVDFTWEQTFQELIQEAKPRATWTLKLDGNLQLDCLAQGWKQYQQRAGWFRCSQQRSWASAQVQIL
 CHTYWEHWTSQGGVQRMRLFGQRCQKCSWSQYEMPEFSSDSTMRIISNLVQHILKKYYGNGMRKSPMPVI
 LEVSLGSHDTANCEACTLGICGQGLKSYMTPKPSKLLPHLKTGNSSPGIGAVYLANQAKNQSDAEAKEAK
 GSGYEKLGPSRDPDPLNICVFILLLVFIVVKCFTSE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022147

ORF Size: 738 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_022147.2](#), [NP_071430.2](#)

RefSeq Size: 1027 bp

RefSeq ORF: 741 bp

Locus ID: 64108

UniProt ID: [Q96DX8](#)

Cytogenetics: 3q27.3

Protein Families: Druggable Genome

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 (PubMed:16720576). Also promotes functional expression of the opioid receptor heterodimer OPRD1-OPRM1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204543