

## Product datasheet for **RG209665**

### RTP2 (NM\_001004312) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RTP2 (NM\_001004312) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RTP2  
**Synonyms:** Z3CXXC2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG209665 representing NM\_001004312  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGTACCAGCTTGACCACTTGTGAGTGAAGAAAGTCTTCTATGAGAAGATGGAGGTGGCAAAGCCAG  
 CGGACAGCTGGGAGCTCATCATAGACCCCAACCTCAAGCCAGTGAGCTGGCCCCGGCTGGAAGCAGTA  
 CCTGGAGCAGCACGCCTCAGGCAGGTTCCACTGCTCCTGGTGCTGGCACACCTGGCAGTCTGCCATGTG  
 GTCATCCTCTCCACATGTTCTGGACCGCCCGGGCGGGCTCGGTGCGCATGCGCGTCTTCAAGC  
 AGCTGTGCTATGAGTGGCGCACGGCGGGCTGGACGAGTCCAGCATGCTTGAGGAGAACATCGAGGGCCT  
 GGTGGACAACCTCATCACCAGCCTGCGCGAGCAGTGCTACGAGGAGGATGGTGGCCAGTACCGCATCCAC  
 GTGGCCAGCCGCCGGACAGCGGCCGCATCGTGACAGATTCTGTGAGGCTGCCAGGAGGGCATCGTTC  
 ACTGGAAGCCAGCGAGAAGCTGCTGGAGGAGGAGGTGACCACCTACACCTCTGAAGCCTCCAAGCCGAG  
 GGCCCAGGCGGGATCCGGCTACAACCTTCTGTCTCTTCGCTGGTGCCTCTTCTGGCCTCTCTGCCTG  
 CTCGTTGTTTACCTGCAGTTCTCCTTCTCAGTCTGCCTCTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209665 representing NM\_001004312  
 Red=Cloning site Green=Tags(s)

MCTSLTTCWKKVYFEKMEVAKPADSWELIIDPNLKPSELAPGWKQYLEQHASGRFHCSWCWHTWQSAHV  
 VILFHMFLDRARRAGSVRMRVFKQLCYECGTARLDESSMLEENIEGLVDNLIITSLREQCYEEDGGQYRIH  
 VASRPDSGPHRAEFCEACQEGIVHWKPSEKLLLEEVTYYTSEASKPRAQAGSGYNFLSLRWCLFWASLCL  
 LVVYLQFSFLSPAFF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001004312

**ORF Size:** 675 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\\_001004312.1](#), [NP\\_001004312.1](#)

**RefSeq Size:** 1364 bp

**RefSeq ORF:** 678 bp

**Locus ID:** 344892

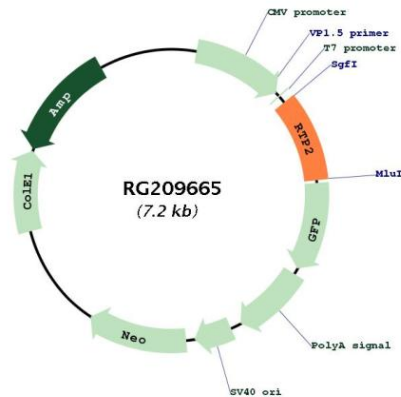
**UniProt ID:** [Q5QGT7](#)

**Cytogenetics:** 3q27.3

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** Specifically promotes functional cell surface expression of olfactory receptors, but not of other GPCRs.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG209665