

Product datasheet for **RG218409**

5HT4 Receptor (HTR4) (NM_199453) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | 5HT4 Receptor (HTR4) (NM_199453) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | HTR4 |
| Synonyms: | 5-HT4; 5-HT4R |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG218409 representing NM_199453 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAACTTGATGCTAATGTGAGTTCTGAGGAGGTTTCGGGTCAGTGGAGAAGGTGGTGCTGCTCA
CGTTTCTCTCGACGGTTATCCTGATGGCCATCTGGGGAACCTGCTGGTATGGTGGCTGTGTGCTGGGA
CAGGCAGCTCAGGAAAAATAAAACAAATTATTTTCATTGTATCTCTTGCTTTTGCGGATCTGCTGGTTTCG
GTGCTGGTATGCCCTTTGGTGCCATTGAGCTGGTTCAAGACATCTGGATTTATGGGAGGTGTTTTGTC
TTGTTTCGGACATCTCTGGACGCTCTGCTACAACGGCATCGATTTTTCACCTGTGCTGCATTCTCTGGA
TAGGTATTACGCCATCTGCTGCCAGCCTTTGGTCTATAGGAACAAGATGACCCCTCTGCGCATCGCATT
ATGCTGGGAGGCTGCTGGGTCATCCCCACGTTTATTTCTTTCTCCCTATAATGCAAGGCTGGAATAACA
TTGGCATAAATGATTTGATAGAAAAGAGGAAGTTCAACCAGAAGCTAACTCTACGTACTGTGCTTTCAT
GGTCAACAAGCCCTACGCCATCACCTGCTCTGTGGTGGCCTTCTACATCCCATTCTCCTCATGGTGCTG
GCCTATTACCGCATCTATGTCACAGCTAAGGAGCATGCCATCAGATCCAGATGTTACAACGGGCAGGAG
CCTCCTCCGAGAGCAGGCCTCAGTCGGCAGACCAGCATAGCACTCATCGCATGAGGACAGAGACCAAGC
AGCCAAGACCTGTGCATCATCATGGGTTGCTTCTGCCTCTGCTGGCACCATTCTTTGTCAACCAATATT
GTGGATCCTTTATAGACTACACTGTCCCTGGCAGGTGTGGACTGCTTTCCCTGGCTCGGCTATATCA
ATTCCGGTTGAACCTTTTCTCTACGCCTTCTTGAATAAGTCTTTTAGACGTGCCTTCTCATCATCCT
CTGCTGTGATGATGAGCGCTACCGAAGACCTTCCATTCTGGCCAGACTGTCCCTTGTTCACCAACAACC
ATTAATGGATCCACACATGTAAGTGCTGTTCCCCTGTCTCCAGTTCCTCCTGCTCTTCTGCAATA
GACCAGTTCCTGTC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218409 representing NM_199453
 Red=Cloning site Green=Tags(s)

MDKLDANVSSEEGFGSVEKVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIVSLAFADLLVS
 VLVMPFGAIELVQDIWIYGEVFLVRTSLDVLTTASIFHLCCISLDRYYAICCPQPLVYRNKMTPLRIAL
 MLGGCWVPTFFISFLPIMQGWNNIGIIDLIEKRKFNQNSNSTYCFVMVKNKPYAITCSVAFYIPFLMLVL
 AYYRIYVTAKEHAHQIQLMQRAGASSESRPQSDAQHSTHRMRTETKAAKTLCIIMGCFCLCWAPFFVTNI
 VDPFIDYTVPGQWTAFLWLGYNLNPFLYAFLNKSFRRRAFLIILCCDDERYRRPSILGQTVPCSTTT
 INGSTHVLSGCSPVSSFLLLFCNRPVPV

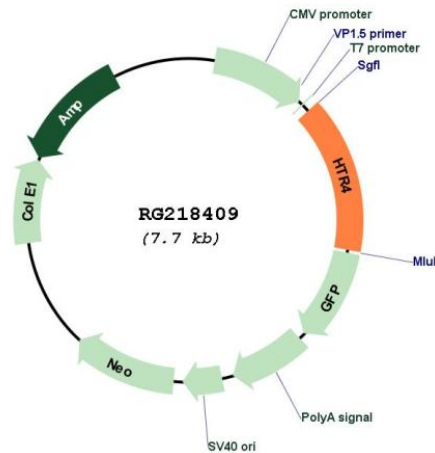
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_199453

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|-------------------------------|---|
| ORF Size: | 1134 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: | <ol style="list-style-type: none">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_199453.3 |
| RefSeq Size: | 1557 bp |
| RefSeq ORF: | 1137 bp |
| Locus ID: | 3360 |
| UniProt ID: | Q13639 |
| Cytogenetics: | 5q32 |
| Protein Families: | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways: | Calcium signaling pathway, Neuroactive ligand-receptor interaction |
| Gene Summary: | This gene is a member of the family of serotonin receptors, which are G protein coupled receptors that stimulate cAMP production in response to serotonin (5-hydroxytryptamine). The gene product is a glycosylated transmembrane protein that functions in both the peripheral and central nervous system to modulate the release of various neurotransmitters. Multiple transcript variants encoding proteins with distinct C-terminal sequences have been described. [provided by RefSeq, May 2010] |