

## Product datasheet for **RG211606**

### 5HT4 Receptor (HTR4) (NM\_001040169) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	5HT4 Receptor (HTR4) (NM_001040169) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	5HT4 Receptor
Synonyms:	5-HT4; 5-HT4R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211606 representing NM_001040169 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAACTTGATGCTAATGTGAGTTCTGAGGAGGTTTCGGGTCACTGGAGAAGGTGGTGCTGCTCA  
CGTTTCTCTCGACGGTTATCCTGATGGCCATCTGGGGAACCTGCTGGTATGGTGGCTGTGTGCTGGGA  
CAGGCAGCTCAGGAAAAATAAAACAAATTATTCATTGTATCTCTTGCTTTTGCGGATCTGCTGGTTTCG  
GTGCTGGTATGCCCTTTGGTGCCATTGAGCTGGTTCAAGACATCTGGATTTATGGGAGGTGTTTTGTC  
TTGTTCCGACATCTCTGGACGCTCTGCTACAACGGCATCGATTTTTCACCTGTGCTGCATTCTCTGGA  
TAGGTATTACGCCATCTGCTGCCAGCCTTTGGTCTATAGGAACAAGATGACCCCTCTGCGCATCGCATT  
ATGCTGGGAGGCTGCTGGGTCATCCCCACGTTTATTTCTTTCTCCCTATAATGCAAGGCTGGAATAACA  
TTGGCATAAATGATTTGATAGAAAAGAGGAAGTTCAACCAGAAGCTAACTCTACGTACTGTGCTTTCAT  
GGTCAACAAGCCCTACGCCATCACCTGCTCTGTGGTGGCCTTCTACATCCCATTCTCTCATGGTGGTCTG  
GCCTATTACCGCATCTATGTCACAGCTAAGGAGCATGCCATCAGATCCAGATGTTACAACGGGCAGGAG  
CCTCCTCCGAGAGCAGGCCTCAGTCGGCAGACCAGCATAGCACTCATCGCATGAGGACAGAGACCAAGC  
AGCCAAGACCTGTGCATCATATGGGTTGCTTCTGCCTCTGCTGGCACCATTCTTTGTACCAATATT  
GTGGATCCTTTATAGACTACACTGTCCCTGGCAGGTGTGGACTGCTTTCTCTGGCTCGGCTATATCA  
ATTCCGGTTGAACCTTTTCTCTACGCCTTCTGAATAAGTCTTTAGACGTGCCTTCTCATCATCCT  
CTGCTGTGATGATGAGCGCTACCGAAGCCTTCCATTCTGGCCAGACTGTCCCTTGTTCACCAACAACC  
ATTAATGGATCCACATGTACTAAGGTACACCGTTCTGCACAGGGGACATCATCAGGAAGCTCGAGAAAC  
TGCCCATACAAATGACCCAGAATCCCTGGAATCATGCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG211606 representing NM\_001040169  
 Red=Cloning site Green=Tags(s)

```
MDKLDANVSSEEGFGSVEKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIVSLAFADLLVS
VLVMPFGAIELVQDIWIYGEVFLVRTSLDLVLLTTASIFHLCCISLDRYYAICCPQPLVYRNKMTPLRIAL
MLGGCWVPTFFISFLPIMQGWNNIGIIDLIEKRKFNQNSNSTYCVFMVKNKPYAITCSVAFYIPFLMLVL
AYYRIYVTAKEHAHQIQMLQRAGASSESRPQSDAQHSTHRMRTETKAAKTLCIIMGCFCLCWAPFFVTNI
VDPFIDYTVPGQVWTAFLWLGYINSGLNPFLYAFLNKSFRRAFLIILCCDDERYRRPSILGQTVPCSTTT
INGSTHVLRYTVLHRGHQELEKLPINHDPESLESCF
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001040169

**ORF Size:** 1161 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\\_001040169.2](#)

**RefSeq Size:** 1481 bp

**RefSeq ORF:** 1164 bp

**Locus ID:** 3360

**UniProt ID:** [Q13639](#)

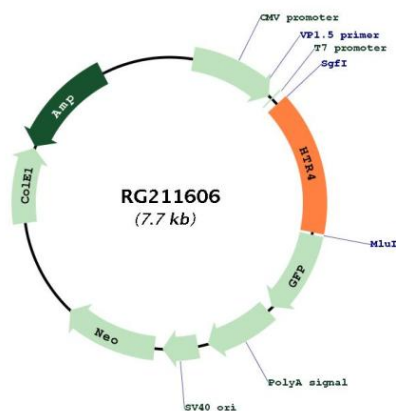
**Cytogenetics:** 5q32

**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]

## Product images:



Circular map for RG211606