

Product datasheet for **RG211300**

5HT5A receptor (HTR5A) (NM_024012) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | 5HT5A receptor (HTR5A) (NM_024012) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | 5HT5A receptor |
| Synonyms: | 5-HT5A |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG211300 representing NM_024012 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTACCTGTGAACCTAACCTCCTTTTCCCTCTCCACCCCTCCCCTTTGGAGACCAACCACAGCC
TCGGCAAAGACGACCTGCGCCCCAGCTCGCCCTGCTCTCGGTCTTCGGAGTGCTTATTCTCACCTTGCT
GGGCTTCTGGTGGCGGCGACGTTGCCTGGAACCTGCTGGTGTGGCGACCATCCTCCGTGTACGCACC
TTCCACCGCGTGCCCAACCTGGTGGCATCCATGGCCGTCTCGGATGTCTGGTGGCCGCGCTGGTCA
TGCCGCTGAGCCTGGTGCACGAGCTGTCCGGGCGCCGCTGGCAGCTAGGTCGGAGGCTGTGCCAGCTTTG
GATCGCGTGCAGCTGCTTTGCTGCACGGCCAGCATCTGGAACGTGACGGCCATAGCCCTGGACCGCTAC
TGGTCCATCACGCGCCACATGGAATACACGCTCCGCACCCGCAAGTGCCTCTCCAACGTCATGATCGCGC
TCACCTGGGCACTCTCCGCTGTCTCTCTGGCCCCGCTGCTTTTGGCTGGGAGAGAGCTACTCTGA
GGGCAGCGAGGAGTGCCAGGTAAGCCGCGAGCCTTCTACGCCGTGTTCTCCACCGTAGGCGCCTTCTAC
CTGCCGCTCTGTGTGGTGTCTTCTGTACTGGAAGATCTACAAGGCTGCCAAGTTCGCGTGGGCTCCA
GGAAGACCAATAGCGTCTACCCATATCCGAAGCTGTGGAGGTGAAGGACTCTGCCAAACAGCCCCAGAT
GGTGTTCACGGTCCGCCACGCCACCGTCACCTTCCAGCCAGAAGGGGACACGTTGGCGGAGCAGAAGGAG
CAGCGGGCCGCCCTCATGGTGGCATCCTCATTGGCGTGTCTGTGCTCTGCTGGATCCCCCTCTTTCTCA
CCGAGCTCATAGTCCCCTCTGCTCCTGTGACATCCCCCGCATCTGGAAAAGCATCTTCTGTGGCTTGG
CTACTCCAACCTCTTTAACCCTGATCTATACGGCTTTCAACAAGAACTACAACAGCGCCTTCAAG
AATTCTTTTCTAGGCAACAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211300 representing NM_024012
 Red=Cloning site Green=Tags(s)

MDLPVNLTSFSLSTPSPLETNHSLGKDDLRPSSPLL SVFGVLIL TLLGFLVAATFAWNLVLATILRVRT
 FHRVPHNLVAMAVSDVLVAALVMPLSLVHEL SGRRWQLGRRLCQLWIACDVLCTASIWNVTAIALDRY
 WSITRHMEYTLRTRKCVSNVMIALTWALSAVISLAPLLFGWGETYSEGSEECQVSREPSYAVFSTVGAFY
 LPLCVVLFVYWKIYKAAKFRVGSRKTNVSPISEAVEVKDSAKQPMVFTVRHATVTFQPEGDTWREQKE
 QRAALMVGILIGVFVLCWIPFFLTELISPLCSCDIPAIWKSIFLWLGYNSFFNPLIYTA FNKNYNSAFK
 NFFSRQH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024012

ORF Size: 1071 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_024012.4](#)

RefSeq Size: 2400 bp

RefSeq ORF: 1074 bp

Locus ID: 3361

UniProt ID: [P47898](#)

Cytogenetics: 7q36.2

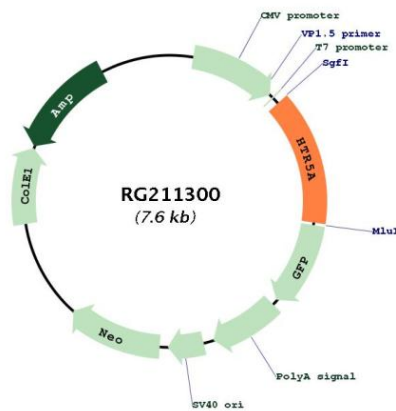
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

Gene Summary: The neurotransmitter serotonin (5-hydroxytryptamine, 5-HT) has been implicated in a wide range of psychiatric conditions and also has vasoconstrictive and vasodilatory effects. The gene described in this record is a member of 5-hydroxytryptamine (serotonin) receptor family and encodes a multi-pass membrane protein that functions as a receptor for 5-hydroxytryptamine and couples to G-proteins. This protein has been shown to function in part through the regulation of intracellular Ca²⁺ mobilization. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG211300