

Product datasheet for **RG210422**

5HT6 Receptor (HTR6) (NM_000871) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT6 Receptor (HTR6) (NM_000871) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	5HT6 Receptor
Synonyms:	5-HT6; 5-HT6R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210422 representing NM_000871 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCCAGAGCCGGGCCAACCCGCAATAGCACCCCGGCTGGGGGGCAGGGCCGCCGTCGGCCCCGG
GGGGCAGCGGCTGGGTGGCGGCCGCGTGTGCGTGGTATCGCGCTGACGGCGCGGCCAACTCGCTGT
GATCGCGCTCATCTGCACTCAGCCCGCGTGCACAACACGTCCAATTCTTCTGGTGTGCTCTTCAG
TCTGACCTGATGGTGGGCTGGTGGTATGCCCGGCCATGCTGAACCGCTGTACGGGCGCTGGGTGC
TGGCGCGGCCCTCTGCCTGCTCTGGACCGCTTCGACGTGATGTGCTGCAGCGCTCCATCCTCAACT
CTGCCTCATCAGCTGGACCGCTACCTGCTCATCTCTCGCCGCTGCGCTACAAGCTGCGCATGACGCC
CTGCGTGGCCCTAGTCTGGGCGCTGGAGCTCGCCGCTCTCGCTCCTTCTGCCCCGCTGCTG
TGGGCTGGCAGGCTGGGCCACGCACGGCCACCCGTCCTGGCCAGTGGCCGCTGCTGGCCAGCCTGCC
TTTTGTCTTGTGGCGTCGGGCCACCTTCTTCTGCCCCGGGTGCCATATGCTTACCTACTGCAGG
ATCCTGTAGTGGCCGAAGCAGGCGGTGCAGGTGGCTCCCTCACCACGGCATGGCCAGTCAAGCCT
CGGAGACGCTGCAGGTGCCAGGACCCACGCCAGGGGTGGAGTCTGCTGACAGCAGGCGTCTAGCCAC
GAAGCACAGCAGGAAGGCCCTGAAGGCCAGCCTGACGCTGGGCATCTGCTGGGCATGTTCTTTGTGACC
TGTTGCCCTTCTTTGTGGCCAACATAGTCCAGGCCGTGTGCGACTGCATCTCCCAGGCCCTCTTCGATG
TCCTCACATGGCTGGTTACTGTAAACAGCACCATGAACCCATCATCTACCCACTTTCATGCGGGACTT
CAAGCGGGCGCTGGGCGAGTTCCTGCCATGTCCACGCTGTCCCCGGGAGCGCCAGGCCAGCCTGGCCTCG
CCATCACTGCGCACCTCTCACAGCGGCCCCCGGCCGCTTAGCCTACAGCAGGTGCTGCCGCTGCCCC
TGCCGCCGACTCAGATTCGGACTCAGACGCAGGCTCAGGCGGCTCCTCGGGCTGCGGCTCACGGCCCA
GCTGCTGCTTCTGGCGAGGCCACCCAGGACCCCGCTGCCACCAGGGCGCTGCCGCCGCAATTTTC
TTCAACATCGACCCCGGAGCCGAGCTGCGGCCGATCCACTTGGCATCCCCACGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210422 representing NM_000871
 Red=Cloning site Green=Tags(s)

```
MVPEPGPTANSTPAWGAGPPSAPGGSGWVAAALCVVIALTAAANSLLIALICTQPALRNTSNFFLVSLFT
SDLMVGLVVMPPAMLNLYGRWVLARGLCLLWTFDVMCCSASILNLCLISLDRYLLILSPLRYKLRMTP
LRALALVLAGWSLAALASFLPLLLGWHELGHARPPVPGQCRLASLPFVLVASGLTFFLPSGAICFTYCR
ILLAARKQAVQVASLTTGMASQASETLQVPRTPRPGVESADSRRLATKHSRKALKASLTLGILLGMFFVT
WLPFFVANIVQAVCDICISPLFDVLTWLYCNSTMNPPIIYPLFMRDFKRALGRFLPCPRCPRERQASLAS
PSLRTSHSGPRPGLSLQVQLPLPLPPDSDSDSDAGSGGSSGLRLTAQLLLPGEATQDPPLPTRAAAANVF
FNIDPAEPELRPHPLGIPTN
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000871

ORF Size: 1320 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_000871.3](#)

RefSeq Size: 1984 bp

RefSeq ORF: 1323 bp

Locus ID: 3362

UniProt ID: [P50406](#)

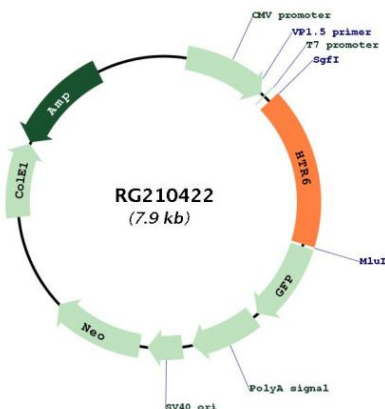
Cytogenetics: 1p36.13

Protein Families: Druggable Genome, GPCR, Transmembrane

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

Gene Summary: This gene encodes a protein that belongs to the seven-transmembrane G protein-coupled receptor family of proteins. The encoded protein couples with the Gs alpha subunit and stimulates adenylate cyclase to activate the cyclic AMP-dependent signaling pathway. This receptor is thought to regulate cholinergic neuronal transmission in the brain. Several antidepressants and antipsychotic drugs have a high affinity for this receptor. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG210422