

Product datasheet for **RG238051**

5HT4 Receptor (HTR4) (NM_001286410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT4 Receptor (HTR4) (NM_001286410) 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:	>RG238051 representing NM_001286410. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACAAACTTGATGCTAATGTGAGTTCTGAGGAGGTTTCGGGTCAGTGGAGAAGGTGGTGTCTGCTC
ACGTTTCTCTCGACGGTATCCTGATGGCCATCTTGGGAACTGCTGGTATGGTGGCTGTGTCTGG
GACAGGCAGCTCAGGAAAATAAAAAAAATTTTATTGTATCTCTTGGTTTTGCGGATCTGCTGGTT
TCGGTGTGGTATGCCCTTGGTGCCATTGAGCTGGTCAAGACATCTGGATTTATGGGAGGTGTTT
TGTCTTGTTCGGACATCTCTGGACGTCCTGCTCACAACGGCATCGATTTTACCTGTGCTGCATTTCT
CTGGATAGGTATTACGCCATCTGCTGCCAGCCTTGGTCTATAGGAACAAGATGACCCCTCTGCCATC
GCATTAATGTGGGAGGCTGCTGGGTATCCCCACGTTTATTTCTTTTCTCCCTATAATGCAAGGCTGG
AATAACATTGGCATAATTGATTTGATAGAAAAGAGGAAGTTCAACCAGAACTCTAACTCTACGACTGT
GTCTTCATGGTCAACAAGCCCTACGCCATCACCTGCTCTGTGGTGGCCTTCTACATCCCATTCTCCTC
ATGGTGTGGCCTATTACCGCATCTATGTCACAGCTAAGGAGCATGCCCATCAGATCCAGATGTTACAA
CGGGCAGGAGCCTCCTCCGAGAGCAGGCCTCAGTCGGCAGACCAGCATAGCACTCATCGCATGAGGACA
GAGACCAAGCAGCCAAGACCCTGTGCATCATGGGTGCTTCTGCCTCTGCTGGCACCATTCTTT
GTCACCAATATTGTGGATCCTTTTCATAGACTACACTGTCCCTGGGAGGTGTGGACTGCTTTCTCTGG
CTCGGCTATATCAATTCGGGTTGAACCCTTTTCTACGCCTTCTTGAATAAGTCTTTTAGACGTGCC
TTCTCATCATCCTCTGCTGTGATGATGAGCGCTACCGAAGACCTTCCATTCTGGGCCAGACTGTCCCT
TGTTCAACCACAACCATTAATGGATCCACACATGTACTAAGTTCTGGAACGAAACCAGAGGAAGAAA
CTTTGGAATAAGGAAGAGAAAGATTGACCAAAACATCCAAATGCCAAAAGAAAAAGAAAAAAGCC
TCTCTGTCTATGAAGACTTAATTCTGTTGGGAGAAAGTCATGTTTTAGGAAGGAAAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238051
 Blue=ORF Red=Cloning site Green=Tag(s)

MDKLDANVSSEEGFGSVEKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIVSLAFADLLV
 SVLVMPFGAIELVQDIWIYGEVFLVRTSLDVLLTTASIFHLCCISLDRYYAICCCQLVYRNKMTPLRI
 ALMLGGCWVPTFISFLPIMQGWNNIGIIDLIEKRKFNQNSNSTYCVFMVNKPYAITCSVVAFYIPFL
 MVLAYRIYVTAKEHAHQIQMLQRAGASSESRPQSADQHS THRMRTETKAAKTLCIIMGCFCLCWAPFF
 VTNI VDPFIDYTPVGQVWTAFLWLG YINSGLNPF LYAFLNKSFRRAFLIILCCDDERYRRPSILGQTVP
 CSTTTINGSTHVLSSGTETDRKKLWNKEEKIDQTIQMPKRKRKKKASLSYEDLILLGRKSCFREGK
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286410

ORF Size: 1233 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).

RefSeq: [NM_001286410.1](#), [NP_001273339.1](#)

RefSeq Size: 1283 bp

RefSeq ORF: 1236 bp
 Locus ID: 3360
 UniProt ID: [Q13639](#)

Cytogenetics: 5q32

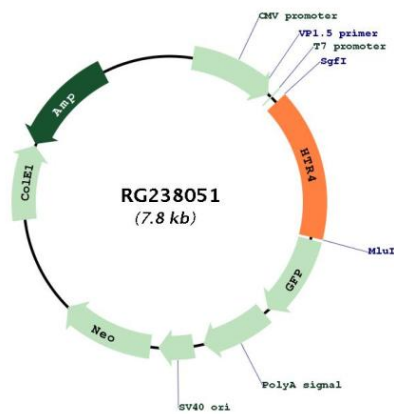
Protein Families: Druggable Genome, GPCR, Transmembrane

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

MW: 47.4 kDa

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 RG238051