

Product datasheet for **RG224437**

5HT4 Receptor (HTR4) (NM_001040173) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT4 Receptor (HTR4) (NM_001040173) 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:	>RG224437 representing NM_001040173 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAACTTGATGCTAATGTGAGTTCTGAGGAGGTTTCGGGTCAGTGGAGAAGGTGGTGCTGCTCA
CGTTTCTCTCGACGGTTATCCTGATGGCCATCTGGGGAACCTGCTGGTATGGTGGCTGTGTGCTGGGA
CAGGCAGCTCAGGAAAAATAAAACAAATATTTTCATTGTATCTCTTGCTTTTGCGGATCTGCTGGTTTCG
GTGCTGGTATGCCCTTTGGTGCCATTGAGCTGGTTCAAGACATCTGGATTTATGGGAGGTGTTTTGTC
TTGTTCCGACATCTCTGGACGCTCTGCTACAACGGCATCGATTTTTCACCTGTGCTGCATTTCTCTGGA
TAGGTATTACCCATCTGCTGCCAGCCTTTGGTCTATAGGAACAAGATGACCCCTCTGCGCATCGCATT
ATGCTGGGAGGCTGCTGGGTCATCCCCACGTTTATTTCTTTTCTCCCTATAATGCAAGGCTGGAATAACA
TTGGCATAAATGATTTGATAGAAAAGAGGAAGTTCAACCAGAAGCTAACTCTACGTACTGTGCTTTCAT
GGTCAACAAGCCCTACGCCATCACCTGCTCTGTGGTGGCCTTCTACATCCCATTTCTCCTCATGGTGCTG
GCCTATTACCGCATCTATGTCACAGCTAAGGAGCATGCCATCAGATCCAGATGTTACAACGGGCAGGAG
CCTCCTCCGAGAGCAGGCCTCAGTCGGCAGACCAGCATAGCACTCATCGCATGAGGACAGAGACCAAAGC
AGCCAAGACCCTGTGCATCATCATGGTTGCTTCTGCCTCTGCTGGGCACCATTCTTTGTACCAATATT
GTGGATCCTTTATAGACTACACTGTCCCTGGCAGGTGTGGACTGCTTTCCCTGCTGGCTCGGCTATATCA
ATTCCGGTTGAACCTTTTCTCTACGCCTTCTTGAATAAGTCTTTTAGACGTGCCTTCTCCTCATCCTCT
CTGCTGTGATGATGAGCGCTACCGAAGACCTTCCATTCTGGGCCAGACTGTCCCTTGTTCAACCACAACC
ATTAATGGATCCACATGTACTAAGGACAGATTTTCTGTTTGACAGAGACATTTTAGCAAGGTATTGGA
CAAAGCCTGCCAGAGCGGTCCATTCTCAGGCACATTGAGCATTAGATGTTTGACTGCAAGGAAGCCTGT
CTTGGGGATGCAGTGGAGTGTGGTGGCCAGTGGGAGAGTCAGTGTACCCGCCAGCAACTTCTCCTTTG
GTGGCTGCTCAGCCAGTGACACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224437 representing NM_001040173
 Red=Cloning site Green=Tags(s)

MDKLDANVSSEEGFGSVEKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIVSLAFADLLVS
 VLVMPFGAIELVQDIWIYGEVFLVRTSLDVLTTASIFHLCCISLDRYYAICQPLVYRNKMTPLRIAL
 MLGGCWVPTFFISFLPIMQGWNIGIIDLIEKRKFNQNSNSTYCVFMVKNPYAITCSVVAFYIPFLMLVL
 AYYRIYVTAKEHAHQIQLMRAGASSESRPQSDAQHSTHRMRTETKAAKTLICIIMGCFCLCWAPFFVTNI
 VDPFIDYVPGQVWTAFLWLGYSNGLNPFLYAFLNKSFRR AFLIILCCDDERYRRPSILGQTVP CSTTT
 INGSTHVLRTDFLFRDILARYWTKPARAGPFSGTL SIRCLTARKPVLGDAVECGQWESQCHPPATSPL
 VAAQPSDT

TRTRPLE - GFP Tag - V

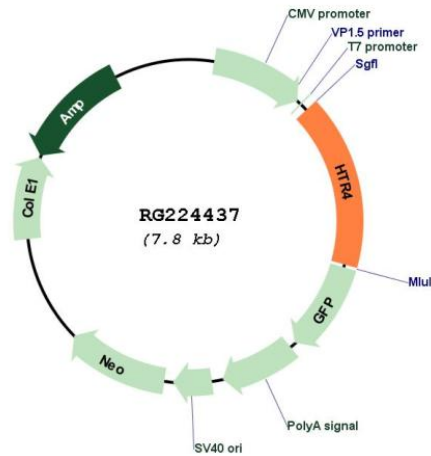
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001040173

ORF Size:	1284 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_001040173.2 , NP_001035263.1
RefSeq Size:	3101 bp
RefSeq ORF:	1287 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]