

Product datasheet for **RC224437**

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:	Myc-DDK
Symbol:	5HT4 Receptor
Synonyms:	5-HT4; 5-HT4R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224437 representing NM_001040173
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAAACTTGATGCTAATGTGAGTTCTGAGGAGGTTTCGGGTCAGTGGAGAAGGTGGTCTGCTCA
 CGTTTCTCTCGACGGTTATCCTGATGGCCATCTTGGGAACTCGTGGTATGGTGGCTGTGTGCTGGGA
 CAGGCAGCTCAGGAAAATAAAAACAAATATTTTCATTGTATCTCTTGCTTTTGGGATCTGCTGGTTTCG
 GTGCTGGTATGCCCTTTGGTGCCATTGAGCTGGTTCAAGACATCTGGATTTATGGGAGGTGTTTTGTC
 TTGTTCCGACATCTCGACGCTCTGCTCACAACGGCATCGATTTTTACCTGTGCTGCATTTCTCTGGA
 TAGGTATTACGCCATCTGCTGCCAGCCTTTGGTCTATAGGAACAAGATGACCCCTCTGCGCATCGCATT
 ATGCTGGGAGGCTGCTGGGTCATCCCCACGTTTATTTCTTTCTCCCTAATGCAAGGCTGGAATAACA
 TTGGCATAATTGATTTGATAGAAAAGAGGAAGTTCAACCAGAACTCTAATCTACGACTGTGCTTCAT
 GGTCAACAAGCCCTACGCCATCACTGCTGTGGTGGCCTTCTACATCCATTTCTCCTCATGGTCTG
 GCCTATTACCGCATCTATGTCACAGCTAAGGAGCATGCCATCAGATCCAGATGTTACAACGGGCAGGAG
 CCTCTCCGAGAGCAGGCCTCAGTCGGCAGACCAGCATAGCACTCATCGCATGAGGACAGAGACCAAAGC
 AGCCAAGACCCTGTGCATCATATGGGTTGCTTCTGCCTCTGCTGGGCACCATTCTTTGTACCAATATT
 GTGGATCCTTTACAGACTACACTGTCCCTGGGACGGTGTGGACTGCTTTCCTCTGGCTCGGCTATATCA
 ATTCGGGTTGAACCTTTTCTCTACGCCTTCTGAATAAGTCTTTTAGACGTGCCTTCCTCATCATCT
 CTGCTGTGATGATGAGCGCTACCGAAGACCTTCCATTCTGGCCAGACTGTCCTTGTTCACCACAACC
 ATTAATGGATCCACACATGTACTAAGGACAGATTTTCTGTTTGACAGAGACATTTTAGCAAGGATTGGA
 CAAAGCCTGCCAGAGCGGTCCTTCTCAGGCACATTGAGCATTAGATGTTTGACTGCAAGGAAGCCTGT
 CTTGGGGGATGCAGTGGAGTGTGGTGGCCAGTGGGAGAGTCAGTGTACCAGCCAGCAACTTCTCCTTTG
 GTGGCTGCTCAGCCAGTGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224437 representing NM_001040173
 Red=Cloning site Green=Tags(s)

MDKLDANVSSEEGFGSVEKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIVSLAFADLLVS
 VLVMPFGAIELVQDIWIYGEVFLVRTSLDVLLTTASIFHLCCISLDRYYAICCPVYRNKMTPLRIAL
 MLGGCWVPTFISFLPIMQGWNNIGIIDLIEKRKFNQNSNSTYCVFMVKNPYAITCSVVAFYIPFLMLVL
 AYYRIYVTAKEHAHQIQLQRAGASSESRPQSADQHSSTHRMRETAKAATLCIIMGFCCLCWAPFFVTNI
 VDPFIDYTPGQVWTAFLWLYINSGLNPFLYAFLNKSFRRRAFLIILCCDDERYRRPSILGQTVPCSTTT
 INGSTHVLRTDFLDRDILARYWTKPARAGPFSGLTSIRCLTARKPVLGDAVECGQWESQCHPPATSPL
 VAAQPSDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8059_c01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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:

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

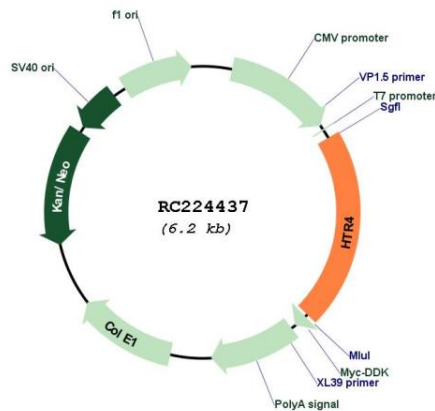
Locus ID: 3360

UniProt ID: [Q13639](#)

Cytogenetics: 5q32

Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
MW:	48.1 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 RC224437