

Product datasheet for RC218409

5HT4 Receptor (HTR4) (NM_199453) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT4 Receptor (HTR4) (NM_199453) 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)
ORF Nucleotide Sequence:	>RC218409 representing NM_199453 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAACTTGATGCTAATGTGAGTTCTGAGGAGGTTTCGGGTCAAGTGGAGAAGGTGGTGTCTCA
CGTTTCTCTCGACGGTTATCCTGATGGCCATCTGGGGAACCTGCTGGTATGGTGGCTGTGTCTGGGA
CAGGCAGCTCAGGAAAAATAAAACAAATTATTTTCATTGTATCTCTTGGCTTTTGGGATCTGCTGGTTTCG
GTGCTGGTATGCCCTTTGGTGCCATTGAGCTGGTTCAAGACATCTGGATTTATGGGAGGTGTTTTGTC
TTGTTCCGACATCTCTGGACGCTCTGCTACAACGGCATCGATTTTTCACCTGTGCTGCATTTCTCTGGA
TAGGTATTACCCATCTGCTGCCAGCCTTTGGTCTATAGGAACAAGATGACCCCTCTGCGCATCGCATT
ATGCTGGGAGGCTGCTGGGTCATCCCCACGTTTATTTCTTTCTCCCTATAATGCAAGGCTGGAATAACA
TTGGCATAAATGATTTGATAGAAAAGAGGAAGTTCAACCAGAAGTCTAAGTCTACGTAAGTGTCTTTCAT
GGTCAACAAGCCCTACGCCATCACCTGCTCTGTGGTGGCCTTCTACATCCCATTTCTCCTCATGGTGTG
GCCTATTACCGCATCTATGTCACAGCTAAGGAGCATGCCATCAGATCCAGATGTTACAACGGGCAGGAG
CCTCCTCCGAGAGCAGGCCTCAGTCGGCAGACCAGCATAGCACTCATCGCATGAGGACAGAGACCAAGC
AGCCAAGACCTGTGCATCATCATGGGTTGCTTCTGCCTCTGCTGGCACCATTCTTTGTACCAATATT
GTGGACTCTTTCATAGACTACACTGTCCCTGGCAGGTGTGGACTGCTTTCTCTGGCTCGGCTATATCA
ATTCCGGTTGAACCTTTTCTCTACGCCTTCTTGAATAAGTCTTTTAGACGTGCCTTCTCCTCATCCTCT
CTGCTGTGATGATGAGCGCTACCGAAGACCTTCCATTCTGGCCAGACTGTCCCTTGTTCACCAACAACC
ATTAATGGATCCACACATGTAAGTGGCTGTTCCCTGTCTCCAGTCTCCTCTGCTCTTCTGCAATA
GACCAGTTCCTGTC

ACGGTACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218409 representing NM_199453
Red=Cloning site Green=Tags(s)

MDKLDANVSSEEGFGSVEKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIVSLAFADLLVS
 VLVMPFGAIELVQDIWIYGEVFLVRTSLDVLLTTASIFHLCCISLDRYYAICQPLVYRNKMTPLRIAL
 MLGGCWVPTFFISFLPIMQGWNNIGIIDLIEKRKFNQNSNSTYCVFMVKNKPYAITCSVAFYIPFLMLVL
 AYYRIYVTAKEHAHQIQLQRAGASSESRPQSADQHSHTHRMRTETKAAKTLCIIMGCFCLWAPFFVVTNI
 VDPFIDYVPGQVWTAFLWLGYSNSGLNPFLYAFLNKSFRRRAFLIILCCDDERYRRPSILGQTVPCSTTT
 INGSTHVLSGCSPVSSFLLLFCNRPVPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6706_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_199453

ORF Size: 1134 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_199453.3](#)

RefSeq Size: 1557 bp

RefSeq ORF: 1137 bp

Locus ID: 3360

UniProt ID: [Q13639](#)

Cytogenetics: 5q32

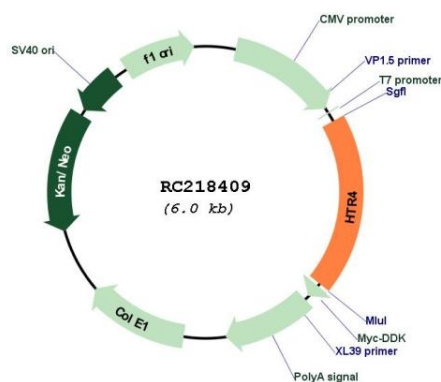
Protein Families: Druggable Genome, GPCR, Transmembrane

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

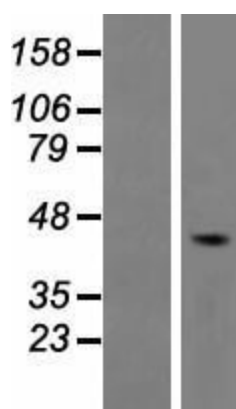
MW: 42.6 kDa

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 RC218409



Western blot validation of overexpression lysate (Cat# [LY404572]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218409 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).