

## Product datasheet for RC238051

### 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:	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:	>RC238051 representing NM_001286410 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAACTTGATGCTAATGTGAGTTCTGAGGAGGTTTCGGGTCAGTGGAGAAGGTGGTGCTGCTCA  
CGTTTCTCTCGACGGTTATCCTGATGGCCATCTGGGGAACCTGCTGGTATGGTGGCTGTGTGCTGGGA  
CAGGCAGCTCAGGAAAAATAAAACAAATTATTTTCATTGTATCTCTTGCTTTTGGGATCTGCTGGTTTCG  
GTGCTGGTATGCCCTTTGGTGCCATTGAGCTGGTTCAAGACATCTGGATTTATGGGAGGTGTTTTGTC  
TTGTTCCGACATCTGGACGCTCTGCTACAACGGCATCGATTTTTCACCTGTGCTGCATTTCTCTGGA  
TAGGTATTACCCATCTGCTGCCAGCCTTTGGTCTATAGGAACAAGATGACCCCTCTGCGCATCGCATT  
ATGCTGGGAGGCTGCTGGGTCATCCCCACGTTTATTTCTTTTCTCCCTATAATGCAAGGCTGGAATAACA  
TTGGCATAAATGATTTGATAGAAAAGAGGAAGTTCAACCAGAAGCTAACTCTACGTACTGTGCTTTCAT  
GGTCAACAAGCCCTACGCCATCACCTGCTCTGTGGTGGCCTTCTACATCCCATTCTCTCATGGTGCTG  
GCCTATTACCGCATCTATGTCACAGCTAAGGAGCATGCCATCAGATCCAGATGTTACAACGGGCAGGAG  
CCTCCTCCGAGAGCAGGCCTCAGTCGGCAGACCAGCATAGCACTCATCGCATGAGGACAGAGACCAAAGC  
AGCCAAGACCTGTGCATCATATGGGTTGCTTCTGCCTCTGCTGGCACCATTCTTTGTACCAATATT  
GTGGATCCTTTATAGACTACACTGTCCCTGGCAGGTGTGGACTGCTTTCTCTGGCTCGGCTATATCA  
ATTCCGGTTGAACCTTTTCTCTACGCCTTCTTGAATAAGTCTTTTAGACGTGCCTTCTCATCATCCT  
CTGCTGTGATGATGAGCGCTACCGAAGACCTTCCATTCTGGCCAGACTGTCCCTTGTTCAACCACAACC  
ATTAATGGATCCACATGTACTAAGTTCTGGAAGTGAACCCAGCAGGAAGAACTTTGGAATAAGGAAG  
AGAAGATTGACCAAACCATCCAATGCCAAAAAGAAAAAGAAAAAAGCCTCTCTGTCTATGAAGA  
CTTAATTCTGTTGGGAGAAAGTCATGTTTTAGGGAAGGAAAA

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC238051 representing NM\_001286410  
 Red=Cloning site Green=Tags(s)

MDKLDANVSSEEGFGSVEKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIVSLAFADLLVS  
 VLVMPFGAIELVQDIWIYGEVFLVRTSLDLVLLTTASIFHLCCISLDRYYAICQPLVYRNKMTPLRIAL  
 MLGGCWVPTFFISFLPIMQGWNNIGIIDLIEKRKFNQNSNSTYCVFMVKNPYAITCSVVAFYIPFLMLVL  
 AYYRIYVTAKEHAHQIQLMQRAGASSESRPQSADQHSRMRTEKAAKTLCTIIMGCFCLCWAPFFVTNI  
 VDPFIDYVPGQVWTAFLWLGYSNSGLNPFLYAFLNKSFRRRAFLIILCCDDERYRRPSILGQTVPCSTTT  
 INGSTHVLSSGTETDRKKLWNKEEKIDQTIQMPKRKRKKKASLSYEDLILLGRKSCFREGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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).

**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\\_001286410.1](#), [NP\\_001273339.1](#)

**RefSeq Size:** 1283 bp

**RefSeq ORF:** 1236 bp

**Locus ID:** 3360

**UniProt ID:** [Q13639](#)

**Cytogenetics:** 5q32

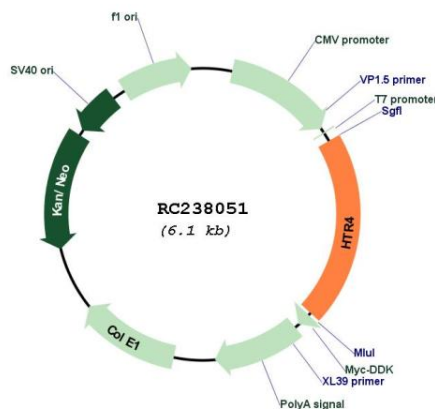
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**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 RC238051