

## Product datasheet for **RC228377**

### 5HT3A receptor (HTR3A) (NM\_001161772) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	5HT3A receptor (HTR3A) (NM_001161772) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	5HT3A receptor
Synonyms:	5-HT-3; 5-HT3A; 5-HT3R; 5HT3R; HTR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC228377 representing NM\_001161772  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCATAGTCTTTCTACAAGCCAGGAGAGCCGAAACACCACCAGGCCGCTCTGCTGAGGCTGTCGG  
 ATTACCTTTTGACCAACTACAGGAAGGGTGTGCGCCCGTGAGGGACTGGAGGAAGCCAACCACCGTATC  
 CATTGACGTCATTGTCTATGCCATCCTCAACGTGGATGAGAAGAATCAGGTGCTGACCACCTACATCTGG  
 TACCGGCAGTACTGGACTGATGAGTTTCTCCAGTGAACCCTGAGGACTTTGACAACATACCAAGTTGT  
 CCATCCCCACGGACAGCATCTGGGTCCCGGACATTCTCATCAATGAGTTCGTGGATGTGGGGAAGTCTCC  
 AAATATCCCGTACGTGTATTCGGCATCAAGGCGAAGTTCAGAACTACAAGCCCCTTCAGTGGTGACT  
 GCCTGTAGCCTCGACATCTACAATTCCCTTCGATGTCCAGAAGTCTCGTACCTTACCAGTTGGC  
 TGCACACCATCCAGGACATCAACATCTCTTTGTGGCGCTTGCCAGAAAAGGTGAAATCCGACAGGAGTGT  
 CTTTCATGAACCAGGAGAGTGGGAGTTGTGGGGTGTGCCCTACTTTCCGGGAGTTCAGCATGGAAGC  
 AGTAACTACTATGCAGAAATGAAGTTCTATGTGGTCATCCGCCGGCGGCCCTCTTCTATGTGGTACGCC  
 TGCTACTGCCAGCATCTTCTCATGGTCATGGACATCGTGGGCTTCTACCTGCCCCCAACAGTGGCGA  
 GAGGGTCTCTTTCAAGATTACACTCCTCCTGGGCTACTCGGTCTTCTGATCATCGTTTCTGACACGCTG  
 CCGGCCACTGCCATCGGCACTCTCATTGGTGTCTACTTTGTGGTGTGCATGGCTCTGCTGGTGATAA  
 GTTTGGCCGAGACCATCTTATTGTGCGGCTGGTGACAAGCAAGACCTGCAGCAGCCCGTGCCTGCTTG  
 GCTGCGTACCTGGTCTGGAGAGAATCGCTGGCTACTTTGCCCTGAGGGAGCAGTCAACTTCCCAGAGG  
 CCCCCAGCCACCTCCCAAGCCACCAAGACTGATGACTGCTCAGCCATGGGAAACCACTGCAGCCACATGG  
 GAGGACCCAGGACTTCGAGAAGAGCCGAGGGACAGATGTAGCCCTCCCCACCACTCGGGAGGCCTC  
 GCTGGCGGTGTGTGGGCTGCTGCAGGAGCTGTCTCCATCCGGCAATTCCTGGAAGCGGGATGAGATC  
 CGAGAGGTGGCCGAGACTGGCTGCGCGTGGGCTCCGTGCTGGACAAGCTGCTATTCCACATTTACCTGC  
 TAGCGGTGCTGGCTACAGCATCACCTGGTTATGCTCTGGTCCATCTGGCAGTACGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228377 representing NM\_001161772  
 Red=Cloning site Green=Tags(s)

MHRSFLQARRSRNTTRPALLRLSDYLLTNYRKGVRPVRDWRKPTTVSIDIVVYAILNVDEKNQVLTTYI  
 YRQYWTDEFQWNPEDFDNITKLSIPTDSIWVPDILINEFVDVGKSPNIPYVYIRHQGEVQNYKPLQVVT  
 ACSLDIYNFPFDVQNCSTFTSWLHTIQDINISLWRLPEKVKSDRSVFMNQGEWELLGVLPHYREFSMES  
 SNYYAEMKFYVVIARRRPLFYVVSLLLPSIFLMVMDIVGFYLPNSGERVSFKITLLLGYSVFLIIIVSDTL  
 PATAIGTPLIGVYFVVMALLVISLAETIFIVRLVHKQDLQPPVPAWLRHLVLERIAWLLCLREQSTSQR  
 PPATSQATKTDDCSAMGNHCSHMGGPQDFEKSPPRDRCSPPPPPREASLAVCGLLQELSSIRQFLEKRDEI  
 REVARDWLRVGSVLDKLLFHIYLLAVLAYSITLVMLWSIWQYA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8061\\_g01.zip](https://cdn.origene.com/chromatograms/mk8061_g01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001161772

**ORF Size:** 1389 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\\_001161772.3](#)

**RefSeq ORF:** 1392 bp

**Locus ID:** 3359

**UniProt ID:** [P46098](#)

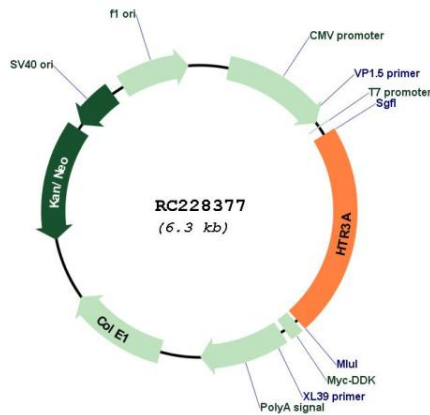
**Cytogenetics:** 11q23.2

**Protein Families:** Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

MW: 53.6 kDa

**Gene Summary:** The product of this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit A of the type 3 receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor causes fast, depolarizing responses in neurons after activation. It appears that the heteromeric combination of A and B subunits is necessary to provide the full functional features of this receptor, since either subunit alone results in receptors with very low conductance and response amplitude. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC228377