

## Product datasheet for **RC201342**

### 5HT3A receptor (HTR3A) (NM\_000869) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	5HT3A receptor (HTR3A) (NM_000869) 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)



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**ORF Nucleotide Sequence:**

>RC201342 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGCTGTGGGTCCAGCAGGCGCTGCTCGCCTTGCTCCTCCACACTCTGGCAGGGAGAAGCCA  
 GGAGGAGCCGAAACACCACCAGGCCGCTCTGCTGAGGCTGTCGATTACCTTTGACCAACTACAGGAA  
 GGGTGTGCGCCCCGTGAGGGACTGGAGGAAGCCAACCACCGTATCCATTGACGTATTGTCTATGCCATC  
 CTCAACGTGGATGAGAAGAATCAGGTGCTGACCACCTACATCTGGTACCGGCAGTACTGGACTGATGAGT  
 TTCTCCAGTGGAAACCCTGAGGACTTTGACAACATCACCAAGTTGCCATCCACCGGACAGCATCTGGGT  
 CCCGGACATTCTCATCAATGAGTTCGTGGATGTGGGGAAGTCTCCAAATATCCCGTACGTGTATATTCGG  
 CATCAAGGCGAAGTTCAGAACTACAAGCCCCTCAGGTGGTACTGCCTGTAGCCTCGACATCTACAAC  
 TCCCCTTCGATGTCCAGAACTGCTCGTGACCTTCACCAGTTGGTGCACACCATCCAGGACATCAACAT  
 CTCTTTGTGGCGTTGCCAGAAAAGGTGAAATCCGACAGGAGTGTCTTATGAACCAGGGAGAGTGGGAG  
 TTGCTGGGGTGTGCCCCACTTTTCGGGAGTTCAGCATGGAAAGCAGTAACTACTATGCAGAAATGAAGT  
 TCTATGTGGTATCCGCCGGCGGCCCTTCTTATGTGGTCAAGCTGCTACTGCCAGCATCTTCTCAT  
 GGTATGGACATCGTGGGCTTCTACCTGCCCCCAACAGTGGCGAGAGGGTCTCTTTCAAGATTACACTC  
 TCCTGGGCTACTCGGTCTTCTGATCATCGTTTCTGACACGCTGCCGGCCACTGCCATCGGCACTCCTC  
 TCATTGGTGTCTACTTTGTGGTGTGCATGGCTCTGCTGGTGATAAGTTTGGCCGAGACCATCTTATTGT  
 GCGGCTGGTGCACAAGCAAGACCTGCAGCAGCCGTCCTGCTGGTGGTGCACCTGGTCTGGAGAGA  
 ATCGCTGGTACTTTGCCTGAGGGAGCAGTCACTTCCCAGAGGCCCCAGCCACTCCAAGCCACCA  
 AGACTGATGACTGCTCAGCCATGGAAACCACTGCAGCCACATGGGAGGACCCAGGACTTCGAGAAGAG  
 CCCGAGGGACAGATGTAGCCCTCCCCACCACCTCGGGAGGCCTCGCTGGCGGTGTGTGGGCTGCTGCAG  
 GAGCTGTCTCCATCCGGCAATTCTGGAAAAGCGGGATGAGATCCGAGAGGTGGCCGAGACTGGCTGC  
 GCGTGGGCTCCGTGCTGGACAAGCTGCTATTCCACATTTACCTGTGGCGGTGCTGGCCTACAGCATCAC  
 CTGGTTATGCTCTGGTCCATCTGGCAGTACGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201342 protein sequence  
 Red=Cloning site Green=Tags(s)

MLLWVQALLALLPTLLAQGEARRSRNTRPALLRLSDYLLTNYRKGVRPVRDWRKPTTVSIDIVYAI  
 LNVDEKNQVLTYYIWYRQYWTDEFLLQWNPEDFDNITKLSIPTDSIWVPDILINEFVDVGKSPNIPVYVIR  
 HQGEVQNYKPLQVVTACSLDIYNFPFDVQNCSTFTSWLHTIQDINISLWRLPEKVKSDRSVFMNQGEWE  
 LLGVLPHYFREFSMESSNYAEMKFYVVIIRRRPLFYVVSLLLPSIFLMVMDIVGFYLPNSGERVSFKITL  
 LLGYSVFLIIVSDTLPATAIIGTPLIGVYFVVMALLVISLAETIFIVRLVHKQDLQPPVPAWLRHLVLER  
 IAWLLCLREQSTSQRPPATSQATKTDDCSAMGNHCSHMGGPQDFEKSPPDRCSPPPPPREASLAVCGLLQ  
 ELSIRIQFLEKRDEIREVARDWLRVGSVLDKLLFHIYLLAVLAYSITLVMLWSIWQYA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6083\\_d04.zip](https://cdn.origene.com/chromatograms/mk6083_d04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_000869

**ORF Size:** 1434 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_000869.6](#)

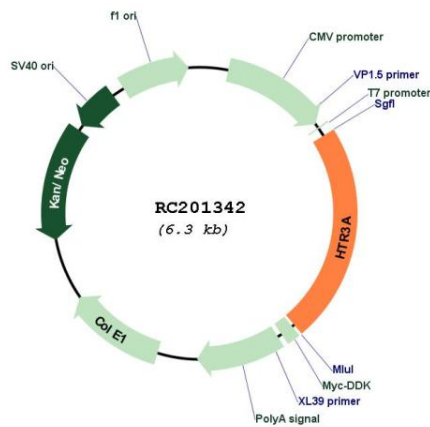
**RefSeq Size:** 2260 bp

**RefSeq ORF:** 1437 bp

**Locus ID:** 3359

**UniProt ID:** [P46098](#)  
**Cytogenetics:** 11q23.2  
**Protein Families:** Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane  
**MW:** 55.3 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 RC201342