

Product datasheet for **RC221882**

5HT3A receptor (HTR3A) (NM_213621) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT3A receptor (HTR3A) (NM_213621) 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:

>RC221882 representing NM_213621
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCTGTGGGTCCAGCAGGCGCTGCTCGCCTTGCTCCTCCCACACTCTGGCAGGGAGAAGCCA
 GGAGGAGCCGAAACACCACCAGGCCGCTCTGCTGAGGCTGTCGATTACCTTTGACCAACTACAGGAA
 GGGTGTGCGCCCCGTGAGGGACTGGAGGAAGCCAACCACCGTATCCATTGACGTATTGTCTATGCCATC
 CTCAACGTGGATGAGAAGAATCAGGTGCTGACCACCTACATCTGGTACCGGCAGTACTGGACTGATGAGT
 TTCTCCAGTGGAAACCCTGAGGACTTTGACAACATCACCAAGTTGTCCATCCCACGGACAGCATCTGGGT
 CCCGGACATTCTCATCAATGAGTTCGTGGATGTGGGAAGTCTCCAAATATCCCGTACGTGTATATTCGG
 CATCAAGCGAAGTTCAGAACTACAAGCCCTTCAGGTGGTACTGCCTGTAGCCTCGACATCTACAAC
 TCCCCTTCGATGTCCAGAACTGCTCGTGACCTTCACCAGTTGGTGCACACCATCCAGGACATCAACAT
 CTCTTTGTGGCGTTGCCAGAAAAGGTGAAATCCGACAGGAGTGTCTTCATGAACCAGGGAGAGTGGGAG
 TTGCTGGGGTGTGCCCCACTTTTCGGGAGTTCAGCATGGAAAGCAGTAACTACTATGCAGAAATGAAGT
 TCTATGTGGTATCCGCCGGCGGCCCTTCTATGTGGTCAAGCTGCTACTGCCAGCATCTTCTCAT
 GGTATGGACATCGTGGGCTTCTACCTGCCCCCAACAGTGGCGAGAGGGTCTCTTTCAAGATTACACTC
 TCCTGGGCTACTCGGTCTTCTGATCATCGTTTCTGACACGCTGCCGGCCACTGCCATCGGCACTCCTC
 TCATTGGTAAGGCCCTCCTGGCAGCAGAGCTCAGTCTGGTGAGAAACCCGCCCTCCACCTCCTGCA
 TGTGCTCTTGCCTTGCCTGGGCTGCACAGGTGTCTACTTTGTGGTGTGCATGGCTCTGCTGGTGATA
 AGTTTGGCCGAGACCATTCTTATGTGCGGCTGGTGCACAAGCAAGACCTGCAGCAGCCCGTGCCTGCT
 GGCTGGCTCACCTGGTTCTGGAGAGAATCGCTGGTACTTTGCCTGAGGGAGCAGTCAACTCCCAGAG
 GCCCCAGCCACCTCCCAAGCCACCAAGACTGATGACTGCTCAGCCATGGGAAACCACTGCAGCCACATG
 GGAGGACCCAGGACTTCGAGAAGAGCCGAGGGACAGATGTAGCCCTCCCCACCACTCGGGAGGCT
 CGCTGGCGGTGTGTGGGCTGCTGCAGGAGCTGTCTCCATCCGGCAATTCTGAAAAGCGGGATGAGAT
 CCGAGAGGTGGCCGAGACTGGCTGCGCGTGGGCTCCGTGCTGGACAAGCTGCTATTCCACATTTACCTG
 CTAGCGGTGCTGGCTACAGCATCACCTGTTATGCTCTGGTCCATCTGGCAGTACGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221882 representing NM_213621
 Red=Cloning site Green=Tags(s)

MLLWVQALLALLPTLLAQGEARRSRNTRPALLRRLSDYLLTNYRKGVRPVRDWRKPTTVSIDVIVYAI
 LNVDEKNQVLTYYIWYRQYWTDEFLQWNPEDFDNITKLSIPTDSIWVPDILINEFVDVGKSPNIPVYVYIR
 HQGEVQNYKPLQVVTACSLDIYNFPDQVQNSLTFTSWLHTIQDINISLWRLPEKVKSDRSVFMNQGEWE
 LLGVLPHYREFSMESSNYAEMKFYVIVRRRPLFYVVSLLLPSIFLMVMDIVGFYLPNNSGERVSFKITL
 LLGYSVFLIIVSDTLPATAIIGTPLIGKAPPGSRAQSGEKPAPSHLLHVSLASALGCTGVYFVVMALLVI
 SLAETIFIVRLVHKQDLQPPVPAWLRHLVLERIAWLLCLREQSTSQRPPATSQATKTDDCSAMGNHCSHM
 GGPQDFEKSPPDRCSPPPPPREASLAVCGLLQELSSIRQFLEKRDEIREVARDWLRVGSVLDKLLFHIYL
 LAVLAYSITLVMLWSIWQYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_213621

ORF Size: 1530 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_213621.4](#)

RefSeq Size: 2243 bp

RefSeq ORF: 1533 bp

Locus ID: 3359

UniProt ID: [P46098](#)

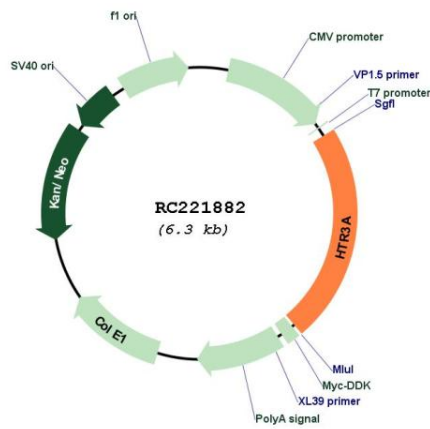
Cytogenetics: 11q23.2

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

MW: 55.9 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 RC221882