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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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTGTGGGTCCAGCAGGCGCTGCTCGCCTTGCTCCTCCCCACACTCCTGGCACAGGGAGAAGCCA
GGAGGAGCCGAAACACCACCAGGCCCGCTCTGCTGAGGCTGTCGGATTACCTTTTGACCAACTACAGGAA
GGGTGTGCGCCCCGTGAGGGACTGGAGGAAGCCAACCACCGTATCCATTGACGTCATTGTCTATGCCATC
CTCAACGTGGATGAGAAGAATCAGGTGCTGACCACCTACATCTGGTACCGGCAGTACTGGACTGATGAGT
TTCTCCAGTGGAACCCTGAGGACTTTGACAACATCACCAAGTTGTCCATCCCCACGGACAGCATCTGGGT
CCCGGACATTCTCATCAATGAGTTCGTGGATGTGGGGAAGTCTCCAAATATCCCGTACGTGTATATTCGG
CATCAAGGCGAAGTTCAGAACTACAAGCCCCTTCAGGTGGTGACTGCCTGTAGCCTCGACATCTACAACT
TCCCCTTCGATGTCCAGAACTGCTCGCTGACCTTCACCAGTTGGCTGCACACCATCCAGGACATCAACAT
CTCTTTGTGGCGCTTGCCAGAAAAGGTGAAATCCGACAGGAGTGTCTTCATGAACCAGGGAGAGTGGGAG
TTGCTGGGGGTGCTGCCCTACTTTCGGGAGTTCAGCATGGAAAGCAGTAACTACTATGCAGAAATGAAGT
TCTATGTGGTCATCCGCCGGCGGCCCCTCTTCTATGTGGTCAGCCTGCTACTGCCCAGCATCTTCCTCAT
GGTCATGGACATCGTGGGCTTCTACCTGCCCCCCAACAGTGGCGAGAGGGTCTCTTTCAAGATTACACTC
CTCCTGGGCTACTCGGTCTTCCTGATCATCGTTTCTGACACGCTGCCGGCCACTGCCATCGGCACTCCTC
TCATTGGTAAGGCCCCTCCTGGCAGCAGAGCTCAGTCTGGTGAGAAACCCGCCCCCTCCCACCTCCTGCA
TGTGTCTCTTGCCTCTGCCCTGGGCTGCACAGGTGTCTACTTTGTGGTGTGCATGGCTCTGCTGGTGATA
AGTTTGGCCGAGACCATCTTCATTGTGCGGCTGGTGCACAAGCAAGACCTGCAGCAGCCCGTGCCTGCTT
GGCTGCGTCACCTGGTTCTGGAGAGAATCGCCTGGCTACTTTGCCTGAGGGAGCAGTCAACTTCCCAGAG
GCCCCCAGCCACCTCCCAAGCCACCAAGACTGATGACTGCTCAGCCATGGGAAACCACTGCAGCCACATG
GGAGGACCCCAGGACTTCGAGAAGAGCCCGAGGGACAGATGTAGCCCTCCCCCACCACCTCGGGAGGCCT
CGCTGGCGGTGTGTGGGCTGCTGCAGGAGCTGTCCTCCATCCGGCAATTCCTGGAAAAGCGGGATGAGAT
CCGAGAGGTGGCCCGAGACTGGCTGCGCGTGGGCTCCGTGCTGGACAAGCTGCTATTCCACATTTACCTG
CTAGCGGTGCTGGCCTACAGCATCACCCTGGTTATGCTCTGGTCCATCTGGCAGTACGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MLLWVQQALLALLLPTLLAQGEARRSRNTTRPALLRLSDYLLTNYRKGVRPVRDWRKPTTVSIDVIVYAI
LNVDEKNQVLTTYIWYRQYWTDEFLQWNPEDFDNITKLSIPTDSIWVPDILINEFVDVGKSPNIPYVYIR
HQGEVQNYKPLQVVTACSLDIYNFPFDVQNCSLTFTSWLHTIQDINISLWRLPEKVKSDRSVFMNQGEWE
LLGVLPYFREFSMESSNYYAEMKFYVVIRRRPLFYVVSLLLPSIFLMVMDIVGFYLPPNSGERVSFKITL
LLGYSVFLIIVSDTLPATAIGTPLIGKAPPGSRAQSGEKPAPSHLLHVSLASALGCTGVYFVVCMALLVI
SLAETIFIVRLVHKQDLQQPVPAWLRHLVLERIAWLLCLREQSTSQRPPATSQATKTDDCSAMGNHCSHM
GGPQDFEKSPRDRCSPPPPPREASLAVCGLLQELSSIRQFLEKRDEIREVARDWLRVGSVLDKLLFHIYL
LAVLAYSITLVMLWSIWQYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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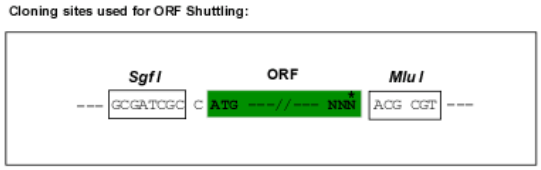
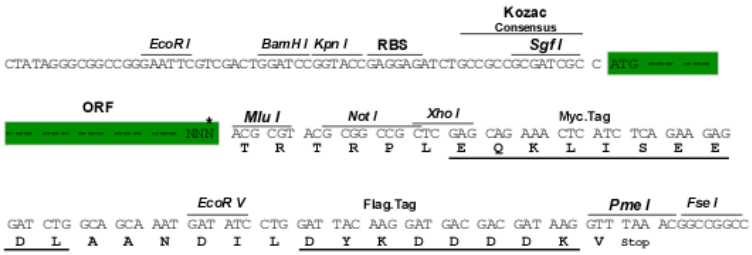
Cloning Scheme:





* The last codon before the Stop codon of the ORF

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.

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

RefSeq: NM_213621.4

RefSeq Size: 2243 bp

RefSeq ORF: 1533 bp

Locus ID: 3359

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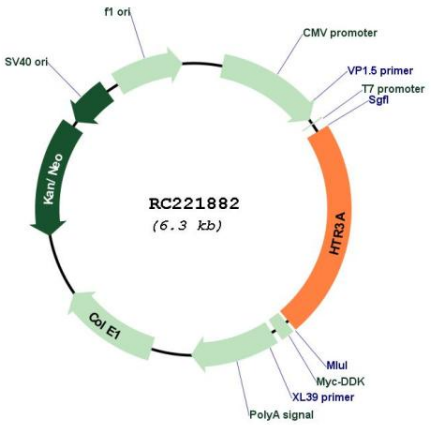
UniProt ID:	P46098
Cytogenetics:	11q23.2
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
MW:	55.9 kDa
Gene Summary:	The product of this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit A of the type 3 receptor for 5-hydroxytryptamine (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

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