

Product datasheet for **SC122578**

5HT3A receptor (HTR3A) (NM_000869) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT3A receptor (HTR3A) (NM_000869) Human Untagged Clone
Tag:	Tag Free
Symbol:	5HT3A receptor
Synonyms:	5-HT-3; 5-HT3A; 5-HT3R; 5HT3R; HTR3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_000869 edited
GCAAGCTGGCCCTTGGTGGGCCTCGTCCTGAGCACTCGGAGGCACTCCTATGCTTGGAAA
GCTCGCTATGCTGCTGTGGGTCCAGCAGGCGCTGCTCGCCTTGCTCCTCCACACTCCT
GGCACAGGAGAAAGCCAGGAGGAGCCGAAACACCAGGCCCGCTCTGCTGAGGCTGTC
GGATTACCTTTTGACCACTACAGGAAGGTGTGCGCCCCGTGAGGGACTGGAGGAAGCC
AACCACCGTATCCATTGACGTCATTGTCTATGCCATCCTCAACGTGGATGAGAAGAATCA
GGTGCTGACCACCTACATCTGGTACCGCAGTACTGGACTGATGAGTTTCTCCAGTGGAA
CCCTGAGGACTTTGACAACATCACCAAGTTGTCCATCCCCACGGACAGCATCTGGGTCCC
GGACATTCATCAATGAGTTCGTGGATGTGGGGAAGTCTCCAAATATCCCGTACGTGTA
TATTCGGCATCAAGGCGAAGTTCAGAACTACAAGCCCCTCAGGTGGTACTGCCTGTAG
CCTCGACATCTACAACCTCCCTTCGATGTCCAGAACTGCTCGCTGACCTTCACCAGTTG
GCTGCACACCATCCAGGACATCAACATCTCTTTGTGGCGTTGCCAGAAAAGGTGAAATC
CGACAGGAGTGTCTTCATGAACCAGGAGAGTGGGAGTTGCTGGGGGTGCTGCCCTACTT
TCGGGAGTTCAGCATGAAAAGCAGTAACTACTATGCAGAAATGAAGTTCTATGTGGTCAT
CCGCCGGCGGCCCTCTTCTATGTGGTCAGCCTGCTACTGCCAGCATCTCCTCATGGT
CATGGACATCGTGGGCTTCTACCTGCCCCCAACAGTGGCGAGAGGGTCTTTTCAAGAT
TACACTCCTCCTGGGCTACTCGGTCTTCTGATCATCGTTTCTGACACGCTGCCGGCCAC
TGCCATCGGCACTCCTCTCATTGGTGTCTACTTTGTGGTGTGCATGGCTCTGCTGGTGT
AAGTTTGGCCGAGACCATCTTATTGTGCGGCTGGTGCACAAGCAAGACCTGCAGCAGCC
CGTGCCTGCTTGGCTGCGTCACCTGGTTCTGGAGAGAATCGCCTGGCTACTTTGCCTGAG
GGAGCAGTCAACTCCCAGAGGCCCCAGCCACCTCCCAAGCCACCAAGACTGATGACTG
CTCAGCCATGGGAAACCACTGCAGCCACATGGGAGGACCCAGGACTTCGAGAAGAGCCC
GAGGGACAGATGTAGCCCTCCCCACCACCTCGGGAGGCCTCGCTGGCGGTGTGTGGCT
GCTGCAGGAGCTGCCTCCATCCGCAATTCCTGGAAAAGCGGGATGAGATCCGAGAGGT
GGCCCCGAGACTGGCTGCGCGTGGGCTCCGTGCTGGACAAGCTGCTATTCCACATTTACCT
GCTGGCGGTGCTGGCCTACAGCATCACCTGGTTATGCTCTGGTCCATCTGGCAGTACGC
TTGAGTGGGTACAGCCAGTGGAGGAGGGGTACAGTCTGGTTAGGTGGGGACAGAGGA
TTTCTGCTTAGGCCCTCAGGACCCAGGGAATGCCAGGGACATTTTCAAGACACAGACAA
AGTCCCGTGCCCTGTTTCCAATGCCAATTCATCTCAGCAATCACAAGCCAAGGTCTGAAC
CCTTCCACAAAAAAGTGGGTGTTCAAGGCCCTTACACCCTGTCCACCCCCAGCAGCTC
ACCATGGCTTTAAAACATGCTCTTAGATCAGGAGAACTCGGGCACTCCCTAAGTCCA
CTCTAGTTGTGGACTTTTCCCATTGACCCTCACCTGAATAAGGGACTTTGGAATTCTGC
TTCTCTTTCACAACCTTGTCTTTAGGTTGAAGGCAAAACCAACTCTACTACACAGGCC
TGATAACTCTGTACGAGGCTTCTTAACCCTAGTGTCTTTTTTTTCTTACCTCACTTG
TGGCAGCTTCCCTGAACACTCATCCCCATCAGATGATGGGAGTGGGAAGAATAAAATGC
AGTGAAACCCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000869 unedited NNNNCCGAGTACACATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGC AAGCTGGCCCTTGGTGGGCTCGTCCTGAGCACCTCGGAGCACTCCTATGCTTGGAAAGC TCGCTATGCTGCTGTGGGTCCAGCAGGCGCTGCTGCCTTGCTCCTCCACACTCCTGG CACAGGGAGAAGCCAGGAGGAGCCGAAACACCACCAGGCCGCTGCTGAGGCTGTCGG ATTACCTTTTGACCAACTACAGGAAGGGTGTGCGCCCCGTGAGGGACTGGAGGAAGCCAA CCACCGTATCCATTGACGTCATTGTCTATGCCATCCTCAACGTGGATGAGAAGAATCAGG TGCTGACCACCTACATCTGGTACCGGCAGTACTGGACTGATGAGTTTCTCCAGTGAACC CTGAGGACTTTGACAACATCACCAAGTTGTCCATCCCCACGGACAGCATCTGGGTCCCGG ACATTCTCATCAATGAGTTCGTGGATGTGGGAAGTCTCCAAATATCCCGTACGTGTATA TTCGGCATCAAGGCGAAGTTCAGAACTACAAGCCCCTTCAGGTGGTACTGCCTGTAGCC TCGACATCTACAACCTCCCTTCGATGTCCAGAACTGCTCGTGACCTTACCAGTTGGC TGCACACCATCCAGGACATCAACATCTCTTTGTGGCGCTTGCCAGATAAGGTGAAATCCG ACAGGAGTGTCTTCATGAACCAGGGAGAGTGGGAGTTGCTGGGGTGCTGCCCTACTTTC GGGAGTTCAGCATGGAAGCAGTAACTACTATGCAGAAATGAAGTTCTATGTGGTCATCC GCCGGCGGCCCTN
Restriction Sites:	Please inquire
ACCN:	NM_000869
Insert Size:	2085 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_000869.2 , NP_000860.1
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

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]

Transcript Variant: This variant (2) lacks an in-frame segment of the coding region, compared to variant 1. It encodes a shorter isoform (b), that is missing an internal segment compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. CCDS Note: The coding region has been updated to shorten the N-terminus to one that is more supported by conservation.