

Product datasheet for **SC327873**

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)

Fully Sequenced ORF: >NCBI ORF sequence for NM_000869, the custom clone sequence may differ by one or more nucleotides

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ATGCTTGGAAAGCTCGCTATGCTGCTGTGGGTCCAGCAGGCGCTGCTCGCCTTGCTCCTC
CCCACACTCCTGGCACAGGGAGAAGCCAGGAGGAGCCGAAACACCACCAGGCCCGCTCTG
CTGAGGCTGTGCGATTACCTTTTGACCAACTACAGGAAGGGTGTGCGCCCGTGAGGGAC
TGGAGGAAGCCAACCACCGTATCCATTGACGTCATTGTCTATGCCATCCTCAACGTGGAT
GAGAAGAATCAGGTGCTGACCACCTACATCTGGTACCGGCAGTACTGGACTGATGAGTTT
CTCCAGTGGAAACCCTGAGGACTTTGACAACATCACCAAGTTGTCCATCCCACGGACAGC
ATCTGGGTCCCGACATTCTCATCAATGAGTTCGTGGATGTGGGGAAGTCTCCAAATATC
CCGTACGTGTATATTCGGCATCAAGGCGAAGTTCAGAACTACAAGCCCCTCAGGTGGT
ACTGCCTGTAGCCTCGACATCTACAACCTCCCCTTCGATGTCCAGAACTGCTCGTGACC
TTCACCAGTTGGCTGCACACCATCCAGGACATCAACATCTCTTTGTGGCGCTTGCCAGAA
AAGGTGAAATCCGACAGGAGTGTCTTCATGAACCAGGGAGAGTGGGAGTTGCTGGGGGTG
CTGCCCTACTTTTCGGGAGTTCAGCATGGAAAGCAGTAACTACTATGCAGAAATGAAGTTC
TATGTGGTCATCCGCCGGCGGCCCTCTTCTATGTGGTCAAGCCTGCTACTGCCACGATC
TTCCTCATGGTCATGGACATCGTGGGCTTCTACCTGCCCCAACAGTGGCGAGAGGGTC
TCTTTCAAGATTACACTCCTCCTGGGCTACTCGGTCTTCTGATCATCGTTTCTGACACG
CTGCCGGCCACTGCCATCGGCACTCCTCTCATTGGTGTCTACTTTGTGGTGTGCATGGCT
CTGCTGGTGATAAGTTTGGCCGAGACCATCTTCATTGTGCGGCTGGTGCAAGAAGCAAG
CTGCAGCAGCCCGTGCCTTGCTGGCTGCGTCACCTGGTTCTGGAGAGAATCGCCTGGCTA
CTTTGCCTGAGGGAGCAGTCAACTTCCCAGAGGCCCCAGCCACCTCCCAAGCCACCAAG
ACTGATGACTGCTCAGCCATGGGAAACCACTGCAGCCACATGGGAGGACCCAGGACTTC
GAGAAGAGCCCGAGGGACAGATGTAGCCCTCCCCACCACCTCGGGAGGCCTCGCTGGCG
GTGTGTGGGCTGCTGCAGGAGCTGCTCCATCCGCAATTCTGGAAAAGCGGGATGAG
ATCCGAGAGGTGGCCCGAGACTGGCTGCGCGTGGGCTCCGTGCTGGACAAGCTGCTATTC
CACATTTACCTGCTAGCGGTGCTGGCCTACAGCATCACCTGGTTATGCTCTGGTCCATC
TGGCAGTACGCT

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Restriction Sites:	Please inquire
ACCN:	NM_000869
Insert Size:	2260 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_000869.5</u> , <u>NP_000860.2</u>
RefSeq Size:	2260 bp
RefSeq ORF:	1455 bp
Locus ID:	3359
UniProt ID:	<u>P46098</u>
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 amine 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.