

## Product datasheet for **SC308684**

### 5HT3A receptor (HTR3A) (NM\_213621) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	5HT3A receptor (HTR3A) (NM_213621) 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:	>SC308684 representing NM_213621. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCTGCTGTGGGTCCAGCAGGCGCTGCTCGCCTTGCTCCTCCCCACACTCCTGGCACAGGGAGAAGCC
AGGAGGAGCCGAAACACCACCAGGCCCGCTCTGCTGAGGCTGTCCGATTACCTTTTGACCAACTACAGG
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ATCCTCAACGTGGATGAGAAGAATCAGGTGCTGACCACCTACATCTGGTACCGGCAGTACTGGACTGAT
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CAGCCCCGTGCTGCTGGCTGCGTCACCTGGTTCTGGAGAGAATCGCCTGGCTACTTTGCCTGAGGGAG
CAGTCAACTTCCCAGAGGCCCCAGCCACCTCCCAAGCCACCAAGACTGATGACTGCTCAGCCATGGGA
AACCACCTGCAGCCACATGGGAGGACCCAGGACTTCGAGAAGAGCCCGAGGGACAGATGTAGCCCTCCC
CCACCACCTCGGGAGGCCTCGCTGGCGGTGTGTGGGCTGCTGCAGGAGCTGTCTCCATCCGGCAATTC
CTGAAAAGCGGGATGAGATCCGAGAGGTGCCCGAGACTGGTGCAGGCTGGGCTCCGTGCTGGACAAG
CTGCTATTCCACATTTACCTGCTGGCGGTGCTGGCCTACAGCATACCCTGGTTATGCTCTGGTCCATC
TGGCAGTACGCTGA

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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_213621
<b>Insert Size:</b>	1533 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_213621.1.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_213621.1</u>
<b>RefSeq Size:</b>	2343 bp
<b>RefSeq ORF:</b>	1533 bp
<b>Locus ID:</b>	3359
<b>UniProt ID:</b>	<u>P46098</u>
<b>Cytogenetics:</b>	11q23.2
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
<b>MW:</b>	58.4 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 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 (1), also known as h5-HT3RL, represents the longest transcript, and encodes the longest 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.