

## Product datasheet for **SC327012**

### 5HT3A receptor (HTR3A) (NM\_001161772) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	5HT3A receptor (HTR3A) (NM_001161772) Human Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >SC327012 representing NM\_001161772.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCATAGGTCTTTCTACAAGCCAGGAGGAGCCGAAACACCACCAGGCCCGCTCTGCTGAGGCTGTGCG
GATTACCTTTTGACCAACTACAGGAAGGGTGTGCGCCCCGTGAGGGACTGGAGGAAGCCAACCACCGTA
TCCATTGACGTCAATTGTCTATGCCATCCTCAACGTGGATGAGAAGAATCAGGTGCTGACCACCTACATC
TGGTACCGGCAGTACTGGACTGATGAGTTTCTCCAGTGGAAACCCTGAGGACTTTGACAACATCACCAAG
TTGTCCATCCCCACGGACAGCATCTGGGTCCCGGACATTCTCATCAATGAGTTCTGTGGATGTGGGAAG
TCTCCAAATATCCCGTACGTGTATATTCGGCATCAAGCGAAGTTCAGAACTACAAGCCCCTTCAGGTG
GTGACTGCCTGTAGCCTCGACATCTACAACCTCCCTTCGATGTCCAGAACTGCTCGCTGACCTTCACC
AGTTGGTGCACACCATCCAGGACATCAACATCTCTTTGTGGCGCTTGCCAGAAAAGGTGAAATCCGAC
AGGAGTGTCTTCATGAACCAGGGAGAGTGGGAGTTGCTGGGGGTGCTGCCCTACTTTCGGGAGTTCAGC
ATGGAAGCAGTAACACTATGCAGAAATGAAGTTCTATGTGGTCATCCGCCGGCGGCCCTCTTCTAT
GTGGTCAGCCTGCTACTGCCAGCATCTTCTCATGGTCATGGACATCGTGGGCTTCTACCTGCCCCC
AACAGTGGCGAGAGGGTCTCTTTCAAGATTACACTCCTCCTGGGCTACTCGGTCTTCTGATCATCGTT
TCTGACACGCTGCCGGCCACTGCCATCGGCACTCCTCTCATTGGTGTCTACTTTGTGGTGTGCATGGCT
CTGCTGGTGATAAGTTTGGCCGAGACCATCTTCATTGTGCGGCTGGTGCACAAGCAAGACCTGCAGCAG
CCCGTGCTGCTGGTGGCTGCGTCACCTGGTTCTGGAGAGAATCGCTGGCTACTTTGCCTGAGGGAGCAG
TCAACTTCCCAGAGGCCCCAGCCACCTCCCAAGCCACCAAGACTGATGACTGCTCAGCCATGGGAAAC
CACTGCAGCCACATGGGAGGACCCAGGACTTCGAGAAGAGCCCGAGGGACAGATGTAGCCCTCCCCCA
CCACCTCGGGAGGCCTCGCTGGCGGTGTGTGGGTGCTGCAGGAGCTGTCTCCATCCGGCAATTCCTG
GAAAAGCGGGATGAGATCCGAGAGGTGGCCGAGACTGGCTGCGCGTGGGCTCCGTGCTGGACAAGCTG
CTATTCCACATTTACCTGCTAGCGGTGCTGGCCTACAGCATCACCTGGTTATGCTCTGGTCCATCTGG
CAGTACGCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001161772

**Insert Size:** 1392 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:**

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\\_001161772.2](#)

**RefSeq Size:** 2019 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 3359

**UniProt ID:** [P46098](#)

**Cytogenetics:** 11q23.2

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

**MW:** 53.8 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]

Transcript Variant: This variant (3) has an alternate 5' exon and lacks an in-frame segment of the coding region, compared to variant 1. It encodes a shorter isoform (c), that has a different N-terminus and 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.