

# **Product datasheet for SC327873**

### OriGene Technologies, Inc.

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## 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: pCMV6-XL5

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

ATGCTTGGAAAGCTCGCTATGCTGCTGTGGGTCCAGCAGGCGCTGCTCGCCTTGCTCCTC CCCACACTCCTGGCACAGGGAGAAGCCAGGAGGAGCCGAAACACCACCAGGCCCGCTCTG CTGAGGCTGTCGGATTACCTTTTGACCAACTACAGGAAGGGTGTGCGCCCCGTGAGGGAC TGGAGGAAGCCAACCACCGTATCCATTGACGTCATTGTCTATGCCATCCTCAACGTGGAT GAGAAGAATCAGGTGCTGACCACCTACATCTGGTACCGGCAGTACTGGACTGATGAGTTT CTCCAGTGGAACCCTGAGGACTTTGACAACATCACCAAGTTGTCCATCCCCACGGACAGC ATCTGGGTCCCGGACATTCTCATCAATGAGTTCGTGGATGTGGGGAAGTCTCCAAATATC CCGTACGTGTATATTCGGCATCAAGGCGAAGTTCAGAACTACAAGCCCCTTCAGGTGGTG ACTGCCTGTAGCCTCGACATCTACAACTTCCCCTTCGATGTCCAGAACTGCTCGCTGACC TTCACCAGTTGGCTGCACACCATCCAGGACATCAACATCTCTTTGTGGCGCTTGCCAGAA AAGGTGAAATCCGACAGGAGTGTCTTCATGAACCAGGGAGAGTGGGAGTTGCTGGGGGTG CTGCCCTACTTTCGGGAGTTCAGCATGGAAAGCAGTAACTACTATGCAGAAATGAAGTTC TATGTGGTCATCCGCCGGCGCCCCTCTTCTATGTGGTCAGCCTGCTACTGCCCAGCATC TTCCTCATGGTCATGGACATCGTGGGCTTCTACCTGCCCCCCAACAGTGGCGAGAGGGTC TCTTTCAAGATTACACTCCTCCTGGGCTACTCGGTCTTCCTGATCATCGTTTCTGACACG CTGCCGGCCACTGCCATCGGCACTCCTCTCATTGGTGTCTACTTTGTGGTGTGCATGGCT CTGCAGCAGCCCGTGCCTGCCTGCGTCACCTGGTTCTGGAGAGAATCGCCTGGCTA CTTTGCCTGAGGGAGCAGTCAACTTCCCAGAGGCCCCCAGCCACCTCCCAAGCCACCAAG ACTGATGACTGCTCAGCCATGGGAAACCACTGCAGCCACATGGGAGGACCCCAGGACTTC GAGAAGAGCCCGAGGGACAGATGTAGCCCTCCCCACCACCTCGGGAGGCCTCGCTGGCG GTGTGTGGGCTGCTGCAGGAGCTGTCCTCCATCCGGCAATTCCTGGAAAAGCGGGATGAG ATCCGAGAGGTGGCCCGAGACTGGCTGCGCGTGGGCTCCGTGCTGGACAAGCTGCTATTC CACATTTACCTGCTAGCGGTGCTGGCCTACAGCATCACCCTGGTTATGCTCTGGTCCATC TGGCAGTACGCT

#### 5HT3A receptor (HTR3A) (NM\_000869) Human Untagged Clone - SC327873

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:** 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, NP 000860.2</u>

 RefSeq Size:
 2260 bp

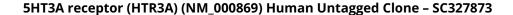
 RefSeq ORF:
 1455 bp

 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.