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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:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_000869 edited
GCAAGCTGGCCCTTGGTGGGCCTCGTCCTGAGCACTCGGAGGCACTCCTATGCTTGGAAA
GCTCGCTATGCTGCTGTGGGTCCAGCAGGCGCTGCTCGCCTTGCTCCTCCCCACACTCCT
GGCACAGGGAGAAGCCAGGAGGAGCCGAAACACCACCAGGCCCGCTCTGCTGAGGCTGTC
GGATTACCTTTTGACCAACTACAGGAAGGGTGTGCGCCCCGTGAGGGACTGGAGGAAGCC
AACCACCGTATCCATTGACGTCATTGTCTATGCCATCCTCAACGTGGATGAGAAGAATCA
GGTGCTGACCACCTACATCTGGTACCGGCAGTACTGGACTGATGAGTTTCTCCAGTGGAA
CCCTGAGGACTTTGACAACATCACCAAGTTGTCCATCCCCACGGACAGCATCTGGGTCCC
GGACATTCTCATCAATGAGTTCGTGGATGTGGGGAAGTCTCCAAATATCCCGTACGTGTA
TATTCGGCATCAAGGCGAAGTTCAGAACTACAAGCCCCTTCAGGTGGTGACTGCCTGTAG
CCTCGACATCTACAACTTCCCCTTCGATGTCCAGAACTGCTCGCTGACCTTCACCAGTTG
GCTGCACACCATCCAGGACATCAACATCTCTTTGTGGCGCTTGCCAGAAAAGGTGAAATC
CGACAGGAGTGTCTTCATGAACCAGGGAGAGTGGGAGTTGCTGGGGGTGCTGCCCTACTT
TCGGGAGTTCAGCATGGAAAGCAGTAACTACTATGCAGAAATGAAGTTCTATGTGGTCAT
CCGCCGGCGGCCCCTCTTCTATGTGGTCAGCCTGCTACTGCCCAGCATCTTCCTCATGGT
CATGGACATCGTGGGCTTCTACCTGCCCCCCAACAGTGGCGAGAGGGTCTCTTTCAAGAT
TACACTCCTCCTGGGCTACTCGGTCTTCCTGATCATCGTTTCTGACACGCTGCCGGCCAC
TGCCATCGGCACTCCTCTCATTGGTGTCTACTTTGTGGTGTGCATGGCTCTGCTGGTGAT
AAGTTTGGCCGAGACCATCTTCATTGTGCGGCTGGTGCACAAGCAAGACCTGCAGCAGCC
CGTGCCTGCTTGGCTGCGTCACCTGGTTCTGGAGAGAATCGCCTGGCTACTTTGCCTGAG
GGAGCAGTCAACTTCCCAGAGGCCCCCAGCCACCTCCCAAGCCACCAAGACTGATGACTG
CTCAGCCATGGGAAACCACTGCAGCCACATGGGAGGACCCCAGGACTTCGAGAAGAGCCC
GAGGGACAGATGTAGCCCTCCCCCACCACCTCGGGAGGCCTCGCTGGCGGTGTGTGGGCT
GCTGCAGGAGCTGTCCTCCATCCGGCAATTCCTGGAAAAGCGGGATGAGATCCGAGAGGT
GGCCCGAGACTGGCTGCGCGTGGGCTCCGTGCTGGACAAGCTGCTATTCCACATTTACCT
GCTGGCGGTGCTGGCCTACAGCATCACCCTGGTTATGCTCTGGTCCATCTGGCAGTACGC
TTGAGTGGGTACAGCCCAGTGGAGGAGGGGGTACAGTCCTGGTTAGGTGGGGACAGAGGA
TTTCTGCTTAGGCCCCTCAGGACCCAGGGAATGCCAGGGACATTTTCAAGACACAGACAA
AGTCCCGTGCCCTGTTTCCAATGCCAATTCATCTCAGCAATCACAAGCCAAGGTCTGAAC
CCTTCCACCAAAAACTGGGTGTTCAAGGCCCTTACACCCTTGTCCCACCCCCAGCAGCTC
ACCATGGCTTTAAAACATGCTCTCTTAGATCAGGAGAAACTCGGGCACTCCCTAAGTCCA
CTCTAGTTGTGGACTTTTCCCCATTGACCCTCACCTGAATAAGGGACTTTGGAATTCTGC
TTCTCTTTCACAACTTTGCTTTTAGGTTGAAGGCAAAACCAACTCTCTACTACACAGGCC
TGATAACTCTGTACGAGGCTTCTCTAACCCCTAGTGTCTTTTTTTTCTTCACCTCACTTG
TGGCAGCTTCCCTGAACACTCATCCCCCATCAGATGATGGGAGTGGGAAGAATAAAATGC
AGTGAAACCCTAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000869 unedited
NNNNCCGAGTACACATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGC
AAGCTGGCCCTTGGTGGGCCTCGTCCTGAGCACCTCGGAGCACTCCTATGCTTGGAAAGC
TCGCTATGCTGCTGTGGGTCCAGCAGGCGCTGCTCGCCTTGCTCCTCCCCACACTCCTGG
CACAGGGAGAAGCCAGGAGGAGCCGAAACACCACCAGGCCCGCTCTGCTGAGGCTGTCGG
ATTACCTTTTGACCAACTACAGGAAGGGTGTGCGCCCCGTGAGGGACTGGAGGAAGCCAA
CCACCGTATCCATTGACGTCATTGTCTATGCCATCCTCAACGTGGATGAGAAGAATCAGG
TGCTGACCACCTACATCTGGTACCGGCAGTACTGGACTGATGAGTTTCTCCAGTGGAACC
CTGAGGACTTTGACAACATCACCAAGTTGTCCATCCCCACGGACAGCATCTGGGTCCCGG
ACATTCTCATCAATGAGTTCGTGGATGTGGGGAAGTCTCCAAATATCCCGTACGTGTATA
TTCGGCATCAAGGCGAAGTTCAGAACTACAAGCCCCTTCAGGTGGTGACTGCCTGTAGCC
TCGACATCTACAACTTCCCCTTCGATGTCCAGAACTGCTCGCTGACCTTCACCAGTTGGC
TGCACACCATCCAGGACATCAACATCTCTTTGTGGCGCTTGCCAGATAAGGTGAAATCCG
ACAGGAGTGTCTTCATGAACCAGGGAGAGTGGGAGTTGCTGGGGGTGCTGCCCTACTTTC
GGGAGTTCAGCATGGAAAGCAGTAACTACTATGCAGAAATGAAGTTCTATGTGGTCATCC
GCCGGCGGCCCCTN
```

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: NM_000869.5, NP_000860.2

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.