

## Product datasheet for **SC300142**

### HTR2B (NM\_000867) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HTR2B (NM_000867) Human Untagged Clone
Tag:	Tag Free
Symbol:	HTR2B
Synonyms:	5-HT(2B); 5-HT-2B; 5-HT2B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000867 edited  
 GGGGGTATTTGTTTCACTGCTTTCAACCGCCTGTGCTGGAGGCTCAGAATAAGTCAATGG  
 GAGGAGGATTTCACTCACAGCAGCAAGCAAGTCTAGTGAACAGATAAGATGACATGCTCA  
 GCAAAATAACAACGAAACCAGAGGGGAACTCTCTGGCATGCAAGTTCAAACACGACTCT  
 ACAACTACGGCAGAAAAAGAGAGAGAGAAAAATAAAATATATATATATCTATTTTTT  
 TCACAGCTATCAGTTTCTTCACTGAGCTTTCCTAAATTTAAGCCTCTAGAAAAATAAA  
 ATACTGGATATCTTACCTACAAACATGGACAGATGTGTATGCGCTCATTTTAGAGAA  
 CTGAATTTTTTTTTAAAGGAAGGTGTCAACTTTGGCTTTTGAGTGTGGCATGGTT  
 ACAATGCCTTAAAAAACAGATGAGCAGCTTAGCTACTAACCATGCTGACCACTGTTGCG  
 AACGGGATTGAATCACAGAAAAACAGCAAATGGCTCTCTTACAGAGTGTCTGAACTTC  
 AAAGCACAATTCCTGAGCACATTTGCAGAGCACCTTTGTTACGTTATCTCTTCTAACT  
 GGTCTGGATTACAGACAGAATCAATACCAGAGGAAATGAAACAGATTGTTGAGGAACAGG  
 GAAATAAACTGCACTGGCAGCTCTTCTGATACTCATGGTGATAATACCCACAATTGGTG  
 GAAATACCCTTGTATTCTGGCTGTTTCACTGGAGAAGAAGCTGCAGTATGCTACTAATT  
 ACTTTCTAATGTCTTGGCGGTGGCTGATTTGCTGGTTGGATTGTTTGTGATGCCAATTG  
 CCCTCTTGACAATAATGTTTGAGGCTATGTGGCCCTCCCACTTGTCTATGTCCGCT  
 GGTATTTCTTGACGTTCTCTTTCAACCGCATCCATCATGCATCTCTGTGCCATTTTCAG  
 TGGATCGTTACATAGCCATCAAAAAGCCAAATCCAGGCCAATCAATATAACTCACGGGCTA  
 CAGCATTCATCAAGATTACAGTGGTGTGGTTAATTTCAATAGGCATTGCCATTCCAGTCC  
 CTATTAAGGGATAGAGACTGATGTGGACAACCCAAACAATATCACTTGTGTGCTGACAA  
 AGGAACGTTTTGGCGATTTATGCTCTTTGGCTCACTGGCTGCCTTCTTACACCTCTTG  
 CAATTATGATTGTACCTACTTTCTCACTATCCATGCTTTACAGAAGAAGGCTTACTTAG  
 TCAAAAAACAAGCCACCTCAACGCCTAACATGGTTGACTGTGTCTACAGTTTTCCAAGGG  
 ATGAAACACCTTGTCTCGTCACCGAAAAGGTGGCAATGCTGGATGGTTCTCGAAAGGACA  
 AGGCTCTGCCAACTCAGGTGATGAAACACTTATGCGAAGAACATCCACAATTGGGAAAA  
 AGTCAGTGCAGACCATTTCCAACGAACAGAGAGCCTCAAAGGCTCCTAGGGATTGTGTTTT  
 TCCTCTTTTTGCTTATGTGGTGTCCCTTCTTTATTACAAATATAACTTTAGTTTTATGTG  
 ATTCTGTAACCAAACACTCTCCAAATGCTCCTGGAGATATTTGTGGATAGGCTATG  
 TTTCTCAGGAGTGAATCCTTTGGTCTACACCCTTTCAATAAGACATTTCGGGATGCAT  
 TTGGCCGATATATCACCTGCAATTACCGGGCCACAAAGTCAGTAAAACTCTCAGAAAAAC  
 GCTCCAGTAAGATCTACTCCGGATCCAATGGCAGAGAATCTAAGTTTTTCAAGAAAC  
 ATGGAATTCGAAATGGGATTAACCCTGCCATGTACCAGAGTCCAATGAGGCTCCGAAGTT  
 CAACCATTCACTTTCATCAATCATTCTACTAGATACGCTTCTCCTCACTGAAAAATGAAG  
 GTGACAAAACGAAGAGCGAGTTAGTTATGTATAGCAGAACTGGCAGTTGTCATCAAACA  
 TAATGATGAGTAAGATGATGAATGAGATGTAATGTGCCAAGAATATATTATATAAGAA  
 TTTTATGTCATATATCAAATCATCTCTTAAACCTAAGATGTAAGTATTAAGAATATCTAA  
 TTTTCTAATTTGGACAAGATTATCCATGAGGAAAAATAATTTTATATAGCTACAAATGA  
 AAACAATCCAGCACTCTGGTTAAATTTAAGGTATTGGAATGAAATAAAGTCAAATCAAT  
 AAATTTTCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000867

**Insert Size:** 2300 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** The ORF of this clone is found to be a perfect match to NM\_000867.2.

**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\\_000867.2](#), [NP\\_000858.2](#)

**RefSeq Size:** 2260 bp

**RefSeq ORF:** 1446 bp

**Locus ID:** 3357

**UniProt ID:** [P41595](#)

**Cytogenetics:** 2q37.1

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Gap junction, Neuroactive ligand-receptor interaction

**Gene Summary:**

This gene encodes one of the several different receptors for 5-hydroxytryptamine (serotonin) that belongs to the G-protein coupled receptor 1 family. Serotonin is a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. Serotonin receptors mediate many of the central and peripheral physiologic functions of serotonin, including regulation of cardiovascular functions and impulsive behavior. Population and family-based analyses of a minor allele (glutamine-to-stop substitution, designated Q20\*) which blocks expression of this protein, and knockout studies in mice, suggest a role for this gene in impulsivity. However, other factors, such as elevated testosterone levels, may also be involved. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).