

## Product datasheet for **MC216631**

### Htr2b (NM\_008311) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Htr2b (NM_008311) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Htr2b
Synonyms:	5-HT2B; AJ012488; AV377389
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC216631 representing NM\_008311  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTTCATCTTATAAAATGTCTGAACAAAGCACAACCTCTGAGCACATTTTACAGAAGACATGTGATC  
 ACCTGATCCTGACTAACGGTTCTGGATTAGAGACAGACTCAGTAGCAGAGGAAATGAAGCAGACTGTGGA  
 GGGACAGGGGCATACAGTGCCTGGCAGCTCTCTGATACTCGCGGTGATAATACCCACCATTGGTGGA  
 AACATCCTTGTGATTCTGGCTGTGCACTGGAGAAAAGGCTGCAGTACGCTACCAACTACTTTTTAATGT  
 CCTTGGCGATAGCAGATTGCTGGTTGGATTGTTTGTGATGCCGATTGCCCTCTTGACAATCATGTTTGA  
 GGCTATATGGCCCTCCCACTGGCCCTGTGCTGCTGGTTATTCCTCGATGTTCTCTTTCAACTGCC  
 TCCATCATGCATCTGTGCCATTTCCCTGGACCCTATATAGCCATCAAAAAGCCAATTCAGGCCAATC  
 AGTGCAACTCCCGGGCTACTGCATTATCAAGATTACAGTGGTATGGTTAATTTCAATAGGCATCGCCAT  
 CCCAGTCCCTATTAAGGAATCGAGACTGATGTGATTAATCCACACAATGCACCTGTGAGCTGACAAAG  
 GACCGCTTTGGCAGTTTTATGGTCTTTGGGTCACTGGCTGCTTTCTTCGCACCTCTACCATCATGGTAG  
 TCCTTACTTTCTCACCATTCACTTTACAGAAGAAAGCTTACTTGGTCAAAAATAAGCCACCTCAACG  
 CCTAACACGGTGGACTGTGCCACAGTTTTCTAAGGGAAGACTCATCTTTTCATCACCAGAAAAGGTG  
 GCAATGCTGGATGGGTCTCACAGGGATAAAATCTACCTAACTCAAGTGATGAGACACTTATGCGAAGAA  
 TGTCTCAGTTGGAAAAAGATCAGCCCAAACATTTCTAATGAGCAGAGAGCCTCGAAGGCCCTGGAGT  
 CGTGTTCCTTTCTGCTTATGTGGTGGCCCTTTTATTACAAATCAACTTTAGCTCTGTGTGAT  
 TCCTGCAATCAGACCCTCTCAAAACACTCCTGGAGATATTTGTGTGGATAGGCTACGTTTCCTCGGGG  
 TGAATCCTCTGATCTATACACTTTCAATAAGACATTTTCGGGAAGCATTGGCAGGTACATCACCTGCAA  
 TTACCGAGCCACAAAGTCAGTAAAAGCACTTAGGAAGTTTTCCAGTACACTTTGTTTTGGGAATCAATG  
 GTAGAAAATCTAAATTTTTCACAAAACATGGAATTCGAAATGGGATCAACCCTGCCATGTACCAGACC  
 CAATGAGGCTCCGAAGTTCAACCATTAGTCTCATCAATCATCTCCTCGATACCTTCTCACTGAAAA  
 CGATGGCGACAAAGCGGAAGAGCAGGTCAGCTACATATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_008311

**Insert Size:** 1440 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](#)

<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><a href="#">BC023690</a></u> , <u><a href="#">AAH23690</a></u>
<b>RefSeq Size:</b>	2041 bp
<b>RefSeq ORF:</b>	1440 bp
<b>Locus ID:</b>	15559
<b>UniProt ID:</b>	<u><a href="#">Q02152</a></u>
<b>Cytogenetics:</b>	1 C5
<b>Gene Summary:</b>	<p>G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:1426253). Also functions as a receptor for various ergot alkaloid derivatives and psychoactive substances (PubMed:1426253, PubMed:16940156). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Signaling activates a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and downstream signaling cascades and promotes the release of Ca(2+) ions from intracellular stores (By similarity). Plays a role in the regulation of dopamine and 5-hydroxytryptamine release, 5-hydroxytryptamine uptake and in the regulation of extracellular dopamine and 5-hydroxytryptamine levels, and thereby affects neural activity (PubMed:16940156, PubMed:18337424). May play a role in the perception of pain (PubMed:21273425). Plays a role in the regulation of behavior, including impulsive behavior (PubMed:21179162). Required for normal proliferation of embryonic cardiac myocytes and normal heart development (PubMed:10944220, PubMed:11413089). Protects cardiomyocytes against apoptosis (PubMed:12738797). Plays a role in the adaptation of pulmonary arteries to chronic hypoxia (PubMed:12244304). Plays a role in vasoconstriction (PubMed:12244304, PubMed:23346101). Required for normal osteoblast function and proliferation, and for maintaining normal bone density (PubMed:17846081). Required for normal proliferation of the interstitial cells of Cajal in the intestine (PubMed:19941613).</p> <p>[UniProtKB/Swiss-Prot Function]</p>