

## Product datasheet for **MC216461**

### Htr2a (NM\_172812) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Htr2a (NM_172812) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Htr2a
Synonyms:	E030013E04; Htr-2; Htr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216461 representing NM\_172812  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAATCTCTGTGAAGACAATATCTCCCTGAGCTCAATCCAACTCCTTAATGCAATTAGGTGACG  
 ACTCGAGGCTCTACCCTAATGACTTCAACTCCAGGGATGCCTAACACTTCCGAAGCCTCGAACTGGACAAT  
 TGATGCTGAAAACAGAACCAACCTCTCCTGCGAAGGGTACCTCCCACCGACATGCCTCTCCATTCTCAT  
 CTCAGGAAAAAACTGGTCTGCTTTATTGACAACTGTCGTGATTATTCTCACCATTGCGGGAAACATAC  
 TGGTCATCATGGCAGTGTCCCTAGAGAAAAAGCTGCAGAATGCCACCAACTATTTCTGATGTCACTTGC  
 CATAGCTGATGCTGCTGGTTTCTTGTGCATGCCCGTGTCCATGTTAACCATCCTGTATGGGTACCGG  
 TGGCCTTTGCCAGCAAGCTCTGTGCCGTCTGGATTTACCTGGATGTGCTCTTCTCCACGGCGTCCATCA  
 TGCACCTCTGCGCATCTCCCTGGACCGCTACGTGGCTATCCAGAACCCATTACCATAGCCGCTTCAA  
 CTCAGAACCAAAAGCCTTCTGAAAATCATTGCGGTGTGGACCATATCCGTAGGTATATCCATGCCAATC  
 CAGTCTTCGGGCTACAGGATGATTGAAAGTCTTTAAGGAAGGGAGCTGCCTGCTCGCCGATGACAAC  
 TTGTCCTCATAGGCTCTTTGTGGCATTTCATCCCCCTAACCATCATGGTGATCACCTACTTCTCTGAC  
 TATCAAGTCACTTCAGAAAGAAGCCACCTGTGTGTGAGTGACCTCAGCACTCGGGCCAAATATCTCTCC  
 TTCAGTTCCTCCCTCAGAGTCTCTGTGCATCAGAAAAGCTCTTCCAGCGGTCCATCCACAGAGAGCCAG  
 GCTCCTACGCAGGCCGAAGGACGATGCAGTCCATCAGCAACGAGCAAAAAGCATGCAAGGTGCTGGGCAT  
 CGTGTCTTTCTGTTTGTGTAATGTGGTGCCATTCTTCATACCAATATCATGGCCGTCATCTGCAAA  
 GAATCTGCAATGAAAATGTCATTGGAGCCCTGCTCAATGTGTTGTCTGGATTGGTTATCTCTCCTCAG  
 CCGTCAACCCACTGGTATATACGTTGTTCAATAAACTTATAGGTCCGCCTTCTCAGGTCACATTGAGTG  
 CCAGTACAAGGAGAACAGAAAGCCGCTGCAGTTAATTTTGTGAACTATACCAACATTGGCCTACAAG  
 TCTAGTACGCTCCAGGTGGGACAAAAAAGAACTCACAGGAAGATGCTGAGCCGACAGCTAATGACTGCT  
 CCATGGTTACTAGGGAACCAACTCGGAAGAGATGTGTACAGACAATATTGAAACCGTGAATGAAAA  
 GGTTAGCTGTGTGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_172812

**Insert Size:** 1416 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>	<a href="#">BC108972</a> , <a href="#">AAI08973</a>
<b>RefSeq Size:</b>	1816 bp
<b>RefSeq ORF:</b>	1416 bp
<b>Locus ID:</b>	15558
<b>UniProt ID:</b>	<a href="#">P35363</a>
<b>Cytogenetics:</b>	14 39.37 cM
<b>Gene Summary:</b>	<p>G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various drugs and psychoactive substances, including mescaline, psilocybin, 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI) and lysergic acid diethylamide (LSD). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Signaling activates phospholipase C and a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and promotes the release of Ca(2+) ions from intracellular stores. Affects neural activity, perception, cognition and mood. Plays a role in the regulation of behavior, including responses to anxiogenic situations and psychoactive substances. Plays a role in intestinal smooth muscle contraction, and may play a role in arterial vasoconstriction.</p> <p>[UniProtKB/Swiss-Prot Function]</p>