

## Product datasheet for **RN207006**

### Htr2c (NM\_012765) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Htr2c (NM_012765) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Htr2c
Synonyms:	5-HT2C; 5-HTR2C; 5HT-1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN207006 representing NM\_012765  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGAACCTTGGAACGCGGTGCGCTCGCTCCTGATGCACCTAATCGGCCTATTGGTTTGCAATTCCG  
 ATATTTCCATAAGTCCAGTAGCAGCTATAGTAAGTACACTTTTAATTCCTCCGATGGTGGACGCTTGTT  
 TCAATTCGGACGGGGTACAAAAGTGGCCAGCACTTTCAATCGTCGTGATTATAATCATGACAATAGGG  
 GGCAACATTCTTGTTATCATGGCAGTAAGCATGGAGAAGAACTGCACAATGCAACCAATTACTTCTTAA  
 TGTCCCTAGCCATTGCTGATGCTGGTGGGACTACTTGTATGCCCTGTCCCTGCTTGTATTCTTTA  
 TGATTATGCTGGCCTTACCTAGATATTTGTGCCCGTCTGGATTTCACTAGATGTGCTATTTTCAACT  
 GCGTCCATCATGCACCTCGGCCATATCGCTGGACCGGTATGTAGCAATACGTAATCCTATTGAGCATA  
 GCCGGTTCAATTCGGGACTAAGGCCATCATGAAGATTGCCATCGTTTGGCAATATCAATAGGAGTTTC  
 AGTTCCTATCCCTGTGATTGGACTGAGGGACGAAAGCAAAGTGTTCGTGAATAACACCACGTGCGTGCTC  
 AATGACCCCAACTTCGTTCTCATCGGGTCTTCGTGGCATTCTTCATCCCGTTGACGATTATGGTATCA  
 CCTACTTCTTAACGATCTACGTCCTGCGCCGTCAAACTCTGATGTTACTTCGAGGTACACCCGAGGAGGA  
 ACTGGCTAATATGAGCCTGAACCTTCTGAACTGCTGCTGCAAGAAGAATGGTGGTGGAGGAAGAGAACGCT  
 CCGAACCCTAATCCAGATCAGAAACCACGTCGAAAGAAGAAAGAAAGCGTCCCAGAGGCCACCATGCAAG  
 CTATCAACAACGAAAAGAAAGCTTCAAAGTCTTGGCATTGTATTCTTTGTGTTTCTGATCATGTGGTG  
 CCCGTTTTTATCACCAATATCCTGTGCGTTCTTTGTGGGAAGGCCTGTAACCAAAAGCTAATGGAGAAG  
 CTTCTCAATGTGTTTGTGTGGATTGGCTATGTGTGTTGAGGCATCAATCCTCTGGTGTACACTCTCTTTA  
 ATAAAATTTACCGAAGGGCTTTCTAAATATTTGCGCTGCGATTATAAGCCAGACAAAAAGCCTCCTGT  
 TCGACAGATTCTAGGGTTGCTGCCACTGTTTGTCTGGGAGGGAGCTCAATGTTAACATTATCGGCAT  
 ACCAATGAACGTGTGGCTAGGAAAGCTAATGACCTGAGCCTGGCATAGAGATGCAGGTGGAGAAGTTAG  
 AGCTGCCAGTCAACCCCTCTAATGTGGTCAGCGAGAGGATTAGTAGTGT**GTA**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1435\\_a09.zip](https://cdn.origene.com/chromatograms/ja1435_a09.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_012765

**Insert Size:** 1383 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="#">NM_012765.3</a></u> , <u><a href="#">NP_036897.2</a></u>
<b>RefSeq Size:</b>	4402 bp
<b>RefSeq ORF:</b>	1383 bp
<b>Locus ID:</b>	25187
<b>UniProt ID:</b>	<u><a href="#">P08909</a></u>
<b>Cytogenetics:</b>	Xq34
<b>Gene Summary:</b>	Serotonin (5-hydroxytryptamine, 5-HT), a neurotransmitter, elicits a wide array of physiological effects by binding to several receptor subtypes, including the 5-HT2 family of seven-transmembrane-spanning, G-protein-coupled receptors, which activate phospholipase C and D signaling pathways. This gene encodes the 2C subtype of serotonin receptor and its mRNA is subject to multiple RNA editing events, where genomically encoded adenosine residues are converted to inosines. RNA editing is predicted to alter amino acids within the second intracellular loop of the 5-HT2C receptor and generate receptor isoforms that differ in their ability to interact with G proteins and the activation of phospholipase C and D signaling cascades, thus modulating serotonergic neurotransmission in the central nervous system. Studies in rodents show altered patterns of RNA editing in response to drug treatments and stressful situations. [provided by RefSeq, Jul 2008]