

Product datasheet for **MC216115**

Htr2c (NM_008312) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr2c (NM_008312) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Htr2c
Synonyms:	5-HT2C; 5-HT2cR; 5-HTR2C; 5HT1c; Htr1; Htr1c; S; SR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216115 representing NM_008312
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGAACCTGGGCACTGCGGTGCGCTACTCCTTGTGCACCTAATTGGCCTATTGGTTTGGCAGTTCCG
 ATATTTCCATAAGTCCAGTAGCAGCTATAGTAAGTACACTTTTAATTCCTCCGATGGTGGACGCTTGTT
 TCAATTCCTCCGACGGGGTACAAAAGTGGCCAGCACTTTCAATAGTCGTGATTATAATCATGACAATAGGG
 GGCAACATTCTCGTTATCATGGCAGTAAGCATGGAGAAGAACTGCACAATGCTACCAATTATTTCTTAA
 TGTCCCTAGCCATTGCTGATATGCTGGTGGGACTACTTGTGATGCCCTGTCTCTGCTTGAATTTCTTA
 TGATTATGCTGGCCTTTACCTAGATATTTGTGCCCGTCTGGATTTCACTAGATGTGCTATTTTCAACT
 GCGTCCATCATGCACCTCTGCGCCATATCGCTGGACCGGTATGTAGCAGTGCATAATCCTGTTGAGCATA
 GCCGGTCAATTCGCGGACTAAGGCCATCATGAAGATTGCCATCGTTTGGCAATATCAATAGGAGTTTC
 AGTTCCTATCCCTGTGATTGGACTGAGGGACGAAAGCAAAGTGTTCGTGAATAATACTACCTGCGTGCTC
 AATGACCCGAACCTCGTTCTCATCGGGTCTTCGTGGCATTCTTCATCCCGTTGACAATTATGGTATCA
 CCTACTTCTTAACGATCTACGTCCTACGCCGTCAAACCCTGATGTTACTTCGAGGTACACCCGAGGAGGA
 ACTGCGTAATATCAGCCTGAACCTTTCTAAAGTGTGCTGCAAGAAGGGTATGAGGAAGAGAACGCTCCC
 AACCCCAATCCAGATCAGAAGCCACGTCGAAAGAAGAAAGAAAGCGGCCCTAGAGGCACCATGCAAGCTA
 TCAACAATGAGAAGAAAGCTTCCAAAGTCTTGGCATTGTATTCTTTGTGTTTCTGATCATGTGGTGCC
 GTTTTTTATCACCATAATCCTGTCGGTGTCTTGTGGGAAGGCCTGAACCAAAAGCTAATGGAGAAACT
 CTCAATGTGTTTGTGGATTGGCTATGTGTTCAGGCATCAATCCTCTGGTGTACACTCTCTTCAACA
 AAATTTACCGAAGGGCTTCTCTAAATATTTGCGCTGCGATTATAAGCCAGACAAAAAGCCTCCTGTTCCG
 ACAGATTCTAGGGTTGCTGCCACTGCTTGTCTGGGAGGGAGCTCAATGTAAACATTTATCGGCATACC
 AATGAACGTGTAGTTAGGAAAGCTAATGACACAGAGCCTGGCATAGAGATGCAGGTAGAGAATTTAGAGC
 TGCCGGTCAATCCCTCTAATGTGGTCAGCGAGAGGATTAGTAGTGTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_008312

Insert Size: 1380 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 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](#)

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: [BC141085](#), [AAI41086](#)

RefSeq Size: 3011 bp

RefSeq ORF: 1380 bp

Locus ID: 15560

UniProt ID: [P34968](#)

Cytogenetics: X 68.46 cM

Gene Summary: 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-HT_{2C} 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]