

Product datasheet for **MR226671**

Htr2c (NM_008312) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr2c (NM_008312) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR226671 representing NM_008312
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGAACCTGGGCACTGCGGTGCGCTACTCCTTGTGCACCTAATTGGCCTATTGGTTTGGCAGTTCC
 ATATTTCCATAAGTCCAGTAGCAGCTATAGTAAGTACACTTTTAATTCCTCCGATGGTGGACGCTTGTT
 TCAATTCGGGACGGGTACAAAAGTGGCCAGCACTTTCAATAGTCGTGATTATAATCATGACAATAGGG
 GGCAACATTCTCGTTATCATGGCAGTAAGCATGGAGAAGAACTGCACAATGCTACCAATTATTTCTTAA
 TGTCCCTAGCCATTGCTGATGCTGGTGGGACTACTTGTGCATGCCCTGTCTCTGCTTGAATTTTAA
 TGATTATGTCTGGCCTTACCTAGATATTTGTGCCCGTCTGGATTTCACTAGATGTGCTATTTCAACT
 GCGTCCATCATGCACCTCTGCGCCATATCGCTGGACCGGTATGTAGCAATACGTAATCCTATTGAGCATA
 GCCGGTCAATTCGCGGACTAAGGCCATCATGAAGATTGCCATCGTTTGGCAATATCAATAGGAGTTTC
 AGTTCCTATCCCTGTGATTGGACTGAGGGACGAAAGCAAAGTGTTCGTGAATAACTACCTGCGTGCTC
 AATGACCCGAACCTCGTTCTCATCGGGTCTTCGTGGCATTCTTCATCCCGTTGACAATTATGGTATCA
 CCTACTTCTTAACGATCTACGTCCTACGCCGTCAAACCCTGATGTTACTTCGAGGTACACCCGAGGAGGA
 ACTGCGTAATATCAGCCTGAACCTTCTAAAGTGTCTGCAAGAAGGGTATGAGGAAGAGAACGCTCCC
 AACCCCAATCCAGATCAGAAGCCACGTCGAAAGAAGAAAGAAAGCGGCCTAGAGGCACCATGCAAGCTA
 TCAACAATGAGAAGAAAGCTTCCAAAGTCTTGGCATTGTATTCTTTGTGTTTCTGATCATGTGGTGCC
 GTTTTTCATCACAATATCCTGTCGGTCTTTGTGGGAAGGCCTGAACCAAAAGCTAATGGAGAAACT
 CTCAATGTGTTTGGATTGGCTATGTGTTCAGGCATCAATCCTCTGGTGTACACTCTCTTCAACA
 AAATTTACCGAAGGCTTCTCTAAATATTTGCGCTGCGATTATAAGCCAGACAAAAAGCCTCCTGTTCCG
 ACAGATTCTAGGGTTCGCTGCCACTGCTTGTCTGGGAGGGAGCTCAATGTTAACATTTATCGGCATACC
 AATGAACGTGTAGTTAGGAAAGCTAATGACACAGAGCCTGGCATAGAGATGCAGGTAGAGAATTTAGAGC
 TGCCGGTCAATCCCTCTAATGTGGTCAGCGAGAGGATTAGTAGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226671 representing NM_008312
 Red=Cloning site Green=Tags(s)

MVNLGTAVRSLLVHLIGLLVWQFDISISVAAIVTDTFNSSDGGRLFQFPDGVQNWPAISIVVIIIMTIG
 GNILVIMAVSMEKKLHNATNYFLMSLAIDMLVGLLVMPLSLLAILYDYVWPLPRYLCPVWISLDVLFST
 ASIMHLCAISLDRYVAIRNPIEHSRFRNSRTKAIMKIAIIVWAISIGVSVPIPVIGLRDESKVFNNTTCVL
 NDPNFVLIGSFVAFFIPLTIMVITYFLTIYVLRQTLMLLRGHTEEELRNISLNFLKCCCKGDEEENAP
 NPNPDQKPRRKKKEKPRGTMQAINNEKKASKVLGIVFFVFLIMWCPFFITNLSVLGKACNQKLEKLL
 LNVFVWIGYVCSGINPLVYTLFNKIYRRAF SKYLRCDYKPKPPVRQIPRVAATALSGRELNVNIYRHT
 NERVVRKANDTEPGIEMQVENLEL PVNPSNVVSEISSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_c10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_008312

ORF Size: 1377 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

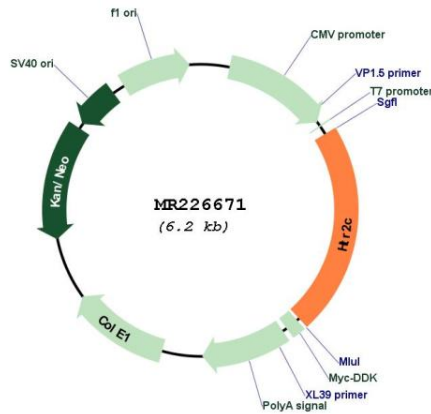
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008312.4, NP_032338.3](#)
RefSeq Size: 4765 bp
RefSeq ORF: 1380 bp
Locus ID: 15560
UniProt ID: [P34968](#)
Cytogenetics: X 68.46 cM
MW: 52.4 kDa

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-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]

Product images:



Circular map for MR226671