

Product datasheet for **MG226671**

Htr2c (NM_008312) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr2c (NM_008312) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Htr2c
Synonyms:	5-HT2C; 5-HT2cR; 5-HTR2C; 5HT1c; Htr1; Htr1c; S; SR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226671 representing NM_008312
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGAACCTGGGCACTGCGGTGCGCTACTCCTTGTGCACCTAATTGGCCTATTGGTTTGGCAGTTCC
 ATATTTCCATAAGTCCAGTAGCAGCTATAGTAAGTACACTTTTAATTCCTCCGATGGTGGACGCTTGTT
 TCAATTCGGGACGGGGTACAAAAGTGGCCAGCACTTTCAATAGTCGTGATTATAATCATGACAATAGGG
 GGCAACATTCTCGTTATCATGGCAGTAAGCATGGAGAAGAACTGCACAATGCTACCAATTATTTCTTAA
 TGTCCCTAGCCATTGCTGATGCTGGTGGGACTACTTGTGATGCCCTGTCTCTGCTTGAATTCTTTA
 TGATTATGCTGGCCTTTACCTAGATATTTGTGCCCGCTCGGATTTCACTAGATGTGCTATTTCAACT
 GCGTCCATCATGCACCTCTGCGCCATATCGCTGGACCGGTATGTAGCAGTGCATAATCCTGTTGAGCATA
 GCCGGTCAATTCGGGACTAAGGCCATCATGAAGATTGCCATCGTTTGGCAATATCAATAGGAGTTTC
 AGTTCCTATCCCTGTGATTGGACTGAGGGACGAAAGCAAAGTGTTCGTGAATAATACTACCTGCGTGCTC
 AATGACCCGAACCTCGTTCTCATCGGGTCTTCGTGGCATTCTTCATCCCGTTGACAATTATGGTATCA
 CCTACTTCTTAACGATCTACGTCCTACGCCGTCAAACCCTGATGTTACTTCGAGGTCACACCCGAGGAGGA
 ACTGCGTAATATCAGCCTGAACCTTTCTAAAGTGTGCTGCAAGAAGGGTATGAGGAAGAGAACGCTCCC
 AACCCCAATCCAGATCAGAAGCCACGTCGAAAGAAGAAAGAAAGCGGCCTAGAGGCACCATGCAAGCTA
 TCAACAATGAGAAGAAAGCTTCCAAAGTCTTGGCATTGTATTCTTTGTGTTTCTGATCATGTGGTGCC
 GTTTTTATCACC AATATCCTGTGCGTCTTGTGGGAAGGCCTGAACCAAAAGCTAATGGAGAAACTT
 CTCAATGTGTTTGGATTGGCTATGTGTTCAGGCATCAATCCTCTGGTGTACACTCTCTTCAACA
 AAATTTACCGAAGGCTTTCTCTAAATATTTGCGCTGCGATTATAAGCCAGACAAAAAGCCTCTGTTCCG
 ACAGATTCCTAGGGTTGCTGCCACTGCTTGTCTGGGAGGGAGCTCAATGTTAACATTTATCGGCATACC
 AATGAACGTGTAGTTAGGAAAGCTAATGACACAGAGCCTGGCATAGAGATGCAGGTAGAGAATTTAGAGC
 TGCCGGTCAATCCCTCTAATGTGGTCAGCGAGAGGATTAGTAGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226671 representing NM_008312
 Red=Cloning site Green=Tags(s)

MVNLGTAVRSLLVHLIGLLVWQFDISISPVAAIVTDTFNSSDGGRLFQFPDGVQNPALSIVVIIIMTIG
 GNILVIMAVSMEKKLHNATNYFLMSLAIDMLVGLLVMPLSLLAILYDYVWPLPRYLCPVWISLDVLFST
 ASIMHLCAISLDRYVAVRNPVEHSRFRNSRTKAIMKIAIVWAISIGVSVPIPVIGLRDESKVFNNTTCVL
 NDPNFVLIGSFVAFFIPLTIMVITYFLTIYVLRQTLMLLRGHTEEELRNISLNFLLKCCCKKGDEEENAP
 NPNPDQKPRRKKKEKRPRGTMQAINNEKKASKVLGIVFFVFLIMWCPFFITNILSVLCGKACNQKLEKL
 LNVFVWIGYVCSGINPLVYTLFNKIYRRAFSKYLRCDYKPKKPPVQRIPRVAATALSGRELVNVIYRHT
 NERVVRKANDTEPGIEMQVENLELPVNPSNVVSEISSV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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).

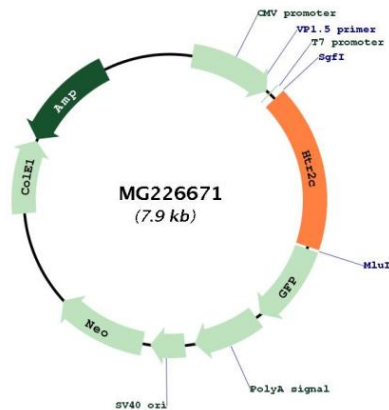
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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

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 MG226671