

Product datasheet for **MR227083**

Htr1a (NM_008308) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr1a (NM_008308) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Htr1a
Synonyms:	Gpcr18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR227083 representing NM_008308
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATATGTTTCAGTCTTGGCCAGGGCAACAACACCACAACGTCCTGGAGCCCTTCGGGACAGGCGGCA
 ACGATACTGGCCTCTCCAACGTGACCTTACGTACCAAGTGATCACCTCTCTTTTGGTGGGACGCTCAT
 TTTCTGCGCGGTCTCGGCAATGCCTGCGTGGTTGCTGCCATCGCCCTGGAGCGCTCCCTTCAGAATGTT
 GCCAACTATCTCATCGGCTCCTTGGCGGTACCGATCTCATGGTGTGAGTGTGGTGTGCCATGGCTG
 CTCTGTACCAGGTGCTCAACAAGTGGACTCTGGGTGAGTACCTGTGACCTGTTTATCGCCCTGGATG
 GCTGTGCTGCACTTCGTCCATCTGCACCTGTGCGCCATCGCGCTAGACAGGACTGGGCAATCACCGAC
 CCTATAGACTACGTGAACAAGAGGACGCCCCGGCGCGCCGCTGCGCTGATCTCGCTCACTGGCTCATTG
 GCTTTCTCATCTCCATCCCGCTATGCTGGGCTGGCGACCCCGAAGACCGCTCGAACCCCAACGAGTG
 CACCATCAGCAAGGACCAGGGTACACCATCTACTCCACTTTCGCGCTTCTATATTCCGCTGCTGCTC
 ATGCTGGTCTCTATGGGCGCATCTTACAGACCCGCGCTTCCGAATCCGCAAGACGGTCAAGAAGGTGG
 AAAAGAAGGGAGCGGGCACAGCTTCGGAACATCGTCGGCCCCGCCCCCAAGAAGACGCTGAATGGTCA
 GCCAGGTAGTGGGGACTGCAGGCGCAGTGTGAGAACAGGGCGGTGGGGACTCCGTGCGCTAATGGGGCG
 GTGAGACAGGGTGAAGACGACGCCACCTGGAGGTGATCGAGGTGCATCGAGTGGGCACTCCAAAGGGC
 ACCTTCTCTGCCAGCGAATCAGGAGCTACCTCCTATGTCCCCGCTGCTTGGAGAGAAAAATGAGCG
 CACTGTGAGGCAAGCGCAAGATGGCCTTGGCCCGTGAAGGAAAGACAGTGAAGACACTGGGCATCATC
 ATGGGCACCTTCATCCTCTGCTGGCTGCCCTTTTTCATTGTGGCCCTGGTCTACCTTTCTGTGAGAGCA
 GTTGCCACATGCCTGAGTTGTTGGGTGCCATAATTAAGTGGCTAGGCTACTCCAACCTCCCTGCTCAACCC
 AGTTATTTATGCTTATTTCAACAAGACTTTCAAACGCTTTTAAGAAGATCATCAAGTGCAAGTCTGCG
 CGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227083 representing NM_008308
 Red=Cloning site Green=Tags(s)

MDMFSLGQGNNTTTSLEPFGTGGNDTGLSNVTFYSQVITSLLLGTLIFCAVLGNACVVAIALERSLQNV
 ANYLIGSLAVTDLMVSVLVLPMAALYQVLNKWTLGQVTCDLFIALDVLCTSSILHLCAIALDRYWAITD
 PIDYVNRTPRRAAALISLTLWIGFLISIPPMLGWRTPEDRSNPNECTISKDHGYTIYSTFGAFYIPLLL
 MLVLYGRIFRAARFRIRKTVKKVEKKGAGTSFGTSSAPPPKSLNGQPGSGDCRRSAENRAVGTPCANGA
 VRQGEDDATLEVIEVHRVGNKSHLPLPSESGATSYVPACLERKNERTAEAKRKMALARERKTVKTLGII
 MGTFILCWL PFFIVALVLPFCESSCHMPELLGAIINWLGYSNSLLNPVIYAYFNKDFQNAFKKIIKCKFC
 R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_008308

ORF Size: 1263 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).

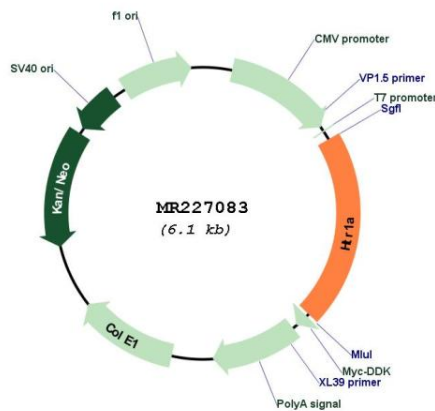
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_008308.4, NP_032334.2](#)

RefSeq Size: 4441 bp
RefSeq ORF: 1266 bp
Locus ID: 15550
UniProt ID: [Q64264](#)
Cytogenetics: 13 56.92 cM
MW: 46.6 kDa

Gene Summary: G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various drugs and psychoactive substances. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Signaling inhibits adenylate cyclase activity and activates a phosphatidylinositol-calcium second messenger system that regulates the release of Ca(2+) ions from intracellular stores. Plays a role in the regulation of 5-hydroxytryptamine release and in the regulation of dopamine and 5-hydroxytryptamine metabolism. Plays a role in the regulation of dopamine and 5-hydroxytryptamine levels in the brain, and thereby affects neural activity, mood and behavior. Plays a role in the response to angiogenic stimuli. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227083