

Product datasheet for MR229567

Htr1d (NM_001285484) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr1d (NM_001285484) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Htr1d
Synonyms:	5-HT-1D; 5-HT1D; AI853647; Gpcr14; Htr1db
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229567 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCCTCAAACAGTCCCTAGAAGGCCTTCTCAGGAGGCCTCCAACAGATCCCTGAATGTGACAG
GGGCTTGGGACCCAGAGGTCCTGCAGGCTCTCAGAATCTCGTCGGTGGTGTGTCCGTCATCACACT
GGCCACTGTCTCTCAAATGCCTTCGTCTTACCACCATCTACTACCAAGAAGCTCCACACCCAGCC
AATTATCTCATTGGCTCCTTGGCCACCACGGACCTCTGGTTTCTATCTTGGTCATGCCATCAGCATAG
CCTACACCACCCGCACCTGGAACCTTGGCCAGATCCTGTGTGACATCTGGGTGTCTTCTGACATCAC
GTGCTGCACGGCCTCCATCTTGATCTCTGTGTCATTGCTCTGGACAGATACTGGCCATCACCGATGCC
CTGGAGTACAGCAAGCGTCGAACCGCAGGCCACGACGAGCCATGATTGCGGCCGTCTGGATCATCTCTA
TTTGTATCTCCATCCCTCCACTCTTCTGGCGGCAGGCCACGGCTCACGAGGAGATGTCCGACTGCCTGGT
GAACACATCTCAGATTTCTTACACCATCTACTCGACCTGTGGCGCCTTCTATATCCCATCCATCTTGCTC
ATTATCTGTATGGCCGCATATACGTGGCCGCCGGAGTCGAATCCTGAACCCACCTCCCTCTACGGGA
AGCGCTTACCACGGCACAGCTTATCACAGGCTCTGTGGCTCTTCGCTCTGCTCGCTCAACCCAGCCT
CCATGAGAGCCACACACACAGTTGGCTCCCCCTCTTTTTCAACCAGGTGAAAATCAAGCTTGGCTGAT
AGCATCCTAGAACGCAAGAGGATCTCTGCAGCCCGAGAAAGGAAAGCCACTAAGACCCCTGGGCATCATT
TGGGGCCTTTATCATCTGCTGGTTGCCTTTCTTTGTAGTATCATTGGTCTCCCATCTGCAGGGACTC
TTGTTGGATCCACCCGGCCCTTTTGACTTCTTACAGTGGCTAGGTTATTTAAACTCTCTCATTAACCC
GTCATCTACACTGTGTTCAACGAAGACTTTCGACAAGCGTTTCAGAAAGTCGTCCATTTCCGGAAGATCT
CA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229567 protein sequence
Red=Cloning site Green=Tags(s)

MSPPNQSLLEGLPQEASNRLNVTGAWDPEVLQALRISLVVLSVITLATVLSNAFVLTITLLTKKLHTPA
 NYLIGSLATDDLVSILVMPISIAYTTRTWNFGQILCDIWWSSDITCCTASILHLCVIALDRYWAITDA
 LEYSKRRTAGHAAAMIAAVWIIISICISIPPLFWRQATAHEEMSDCLVNTSQISYTIYSTCGAFYIPSILL
 IILYGRIVVAARSRLNPPSLYGKRFTTAQLITGSAGSSSLCSLNPSLHESHTHTVGSPLFFNQVKIKLAD
 SILERKRISAARERKATKTLGIILGAFIICWLPFFVSVLVLPICRDSCWIHPALFDFFTWLGYLNSLINP
 VIYTVFNEDFRQAFQKVVFHFRKIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001285484

ORF Size: 1122 bp

OTI Disclaimer: 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_001285484.1](#), [NP_001272413.1](#)

RefSeq Size: 2808 bp

RefSeq ORF: 1125 bp

Locus ID: 15552

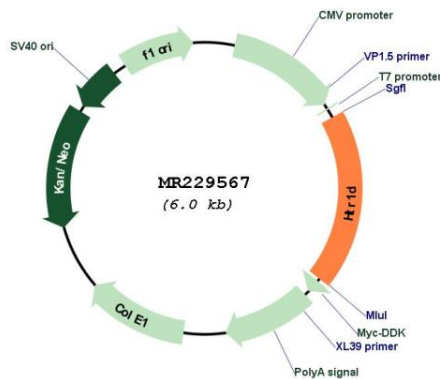
UniProt ID: [Q61224](#)

Cytogenetics: 4 68.74 cM

MW: 41.6 kDa

Gene Summary: G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various alkaloids 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. Signaling inhibits adenylate cyclase activity. Regulates the release of 5-hydroxytryptamine in the brain, and thereby affects neural activity. May also play a role in regulating the release of other neurotransmitters. May play a role in vasoconstriction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229567