

Product datasheet for MR229565

Htr1d (NM_001285482) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Htr1d (NM_001285482) 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: >MR229565 representing NM_001285482
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTCTCCAAACCAGTCCCTAGAAGGCCTTCCTCAGGAGGCCTCCAACAGATCCCTGAATGTGACAG
 GGGCTTGGGACCCAGAGGTCCTGCAGGCTCTCAGAATCTCGTCGGTGGTGTGTCCTCATCACACT
 GGCCACTGTCTCTCCAATGCCTTCGTCTTACCACCATCTACTACCAAGAAGCTCCACACCCAGCC
 AATTATCTCATTGGCTCCTTGGCCACCACGGACCTCCTGGTTTCTATCTTGGTCATGCCATCAGCATAG
 CCTACACCACCACCCGCACCTGGAACCTTGGCCAGATCCTGTGTGACATCTGGGTGTCTTCTGACATCAC
 GTGCTGCACGGCCTCCATCTTGATCTCTGTGTCATTGCTCTGGACAGATACTGGCCATCACCGATGCC
 CTGGAGTACAGCAAGCGTCGAACCGCAGGCCACGCAGCAGCCATGATTGCGGCCGTCTGGATCATCTCTA
 TTTGTAATCTCCATCCCTCCACTCTTCTGGCGGCAGGCCACGGCTCACGAGGAGATGTCCGACTGCCTGGT
 GAACACATCTCAGATTTCTTACACCATCTACTCGACCTGTGGCGCCTTCTATATCCCATCCATCTTGCTC
 ATTATCTGTATGGCCGCATATACGTGGCCGCCGGAGTCGAATCCTGAACCCACCTCCCTCTACGGGA
 AGCGCTTACCACGGCACAGCTTATCACAGGCTCTGTGGCTCTTCGCTCTGCTCGCTCAACCCAGCCT
 CCATGAGAGCCACACACACAGTTGGCTCCCCCTCTTTTTCAACCAGGTGAAAATCAAGCTTGCTGAT
 AGCATCCTAGAACGCAAGAGGATCTCTGCAGCCGAGAAAGGAAAGCCACTAAGACCCCTGGGCATCATT
 TGGGGCCTTTATCATCTGCTGGTTGCCTTTCTTTGTAGTATCATTGGTCTCCCATCTGCAGGGACTC
 TTGTTGGATCCACCCGGCCCTTTTGACTTCTTACGTGGCTAGGTTATTTAAACTCTCTCATTAACCC
 GTCATCTACACTGTGTTCAACGAAGACTTTCGACAAGCGTTTCAGAAAGTCGTCCATTTCCGGAAGATCT
 CA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229565 representing NM_001285482
 Red=Cloning site Green=Tags(s)

MSPPNQSLLEGLPQEASNRLNVTGAWDPEVLQALRISLVVLSVITLATVLSNAFVLTITLLTKKLHTPA
 NYLIGSLATDDLVSILVMPISIAIYTTTRTWNFQILCDIWWSSDITCCTASILHLCVIALDRYWAITDA
 LEYSKRRTAGHAAAMIAAVWIIISICISIPPLFWRQATAHEEMSDCLVNTSQISYTIYSTCGAFYIPSILL
 IILYGRIVVAARSRLNPPSLYGKRFTTAQLITGSAGSSSLCSLNPSLHESHTHTVGSPLFFNQVKIKLAD
 SILERKRISAARERKATKTLGIILGAFIICWLPFFVVSLLPICRDSWHPALFDFFTWLGYLNSLINP
 VIYTVFNEDFRQAFQKVVFHFRKIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001285482

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_001285482.1](#), [NP_001272411.1](#)

RefSeq Size: 3079 bp

RefSeq ORF: 1125 bp

Locus ID: 15552

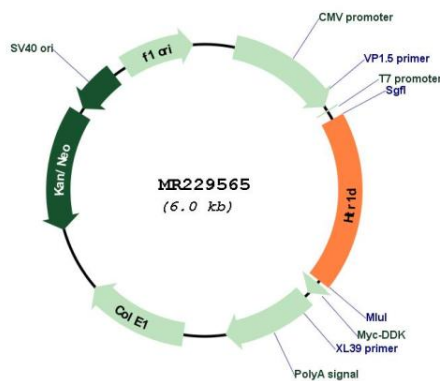
UniProt ID: [Q61224](#)

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 MR229565