

Product datasheet for **MG217452**

Htr1d (NM_008309) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr1d (NM_008309) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Htr1d
Synonyms:	5-HT-1D; 5-HT1D; AI853647; Gpcr14; Htr1db
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217452 representing NM_008309 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCCAAACCAGTCCCTAGAAGGCCTTCCTCAGGAGGCCTCCAACAGATCCCTGAATGCGACAG
GGGCTTGGGACCCAGAGGTCCTGCAGGCTCTCAGAATCTCGTCGGTGGTGTGTCCGTCATCACACT
GGCCACTGTCTCTCCAATGCCTTTGTCCTTACCACCATCTACTACCAAGAAGCTCCACACCCAGCC
AATTATCTCATTGGCTCCTTGGCCACCACGGACCTCCTGGTTTCTATCTTGGTCATGCCATCAGCATAG
CCTACACCACCACCCGCACCTGGAACCTTGGCCAGATCCTGTGTGACATCTGGGTGTCTTCTGACATCAC
GTGCTGCACGGCCTCCATCTTGATCTCTGTGTCATTGCTCTGGACAGATACTGGCCATCACCGATGCC
CTGGAGTACAGCAAGCGTCGAACCGCAGGCCACGACGAGCCATGATTGCGGCCGTCTGGATCATCTCTA
TTTGTATCTCCATCCCTCCGCTCTTCTGGCGGCAGGCCACGGCTCACGAGGAGATGTCCGACTGCCTGGT
GAACACATCTCAGATTTCTTACACCATCTACTCGACCTGTGGCGCCTTCTATATCCCATCCATCTTGCTC
ATTATCCTGTATGGCCGCATATACGTGGCCGCCGGAGTCGAATCCTGAACCCACCCCTCCCTCTACGGGA
AGCGCTTACCACGGCACAGCTTATCACAGGCTCTGTGGCTCTTCGCTCTGCTCGCTCAACCCAGCCT
CCACGAGAGCCACACACACAGTTGGCTCCCCCTCTTTTTCAACCAGGTGAAAATCAAGCTTGCTGAT
AGCATCCTAGAACGCAAGAGGATCTCTGCAGCCCGAGAAAGGAAAGCCACTAAGACCCCTGGGCATCATT
TGGGGCCTTTATCATCTGCTGGTTGCCTTTCTTTGTAGTATCGTTGGTCCCTCCCATCTGCAGGGACTC
CTGTTGGATCCACCCGGCCCTTTTGACTTCTTACAGTGGCTAGGTTATTTAAACTCTCTCATTAACCC
GTCATCTACACTGTGTTCAACGAAGACTTTCGACAAGCGTTTCAGAAAGTCGTCCATTTCCGGAAGATCT
CA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217452 representing NM_008309
 Red=Cloning site Green=Tags(s)

MSPPNQSLEGLPQEASNRLNATGAWDPEVLQALRISLVVLSVITLATVLSNAFVLTITLLTKKLHTPA
 NYLIGSLATDDLVSILVMPISIAAYTTTRTWNFGQILCDIWWSSDITCCTASILHLCVIALDRYWAITDA
 LEYSKRRTAGHAAAMIAAVWIIISICISIPPLFWRQATAHEEMSDCLVNTSQISYTIYSTCGAFYIPSILL
 IILYGRIVVAARSRLNPPSLYGKRFTTAQLITGSAGSSSLCSLNPSLHESHHTHTVGSPLFFNQVKIKLAD
 SILERKRISAARERKATKTLGIILGAFIICWLPFFVSVLPLICRDSWHPALFDFFTWLGYLNSLINP
 VIYTVFNEDFRQAFQKVVFHFRKIS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008309

ORF Size: 2918 bp

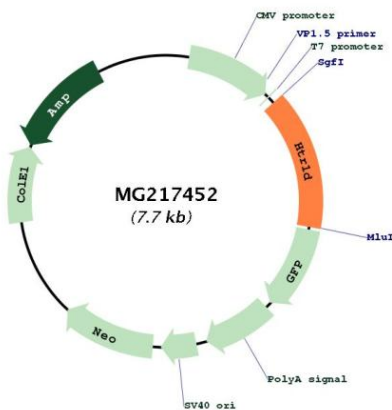
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_008309.4](#)
- RefSeq ORF:** 1125 bp
- Locus ID:** 15552
- UniProt ID:** [Q61224](#)
- Cytogenetics:** 4 68.74 cM
- 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 MG217452