

Product datasheet for **RG202862**

HTR1D (NM_000864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTR1D (NM_000864) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HTR1D
Synonyms:	5-HT1D; HT1DA; HTR1DA; HTRL; RDC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202862 representing NM_000864 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCCACTGAACCAGTCAGCAGAAGGCCTTCCCCAGGAGGCCTCCAACAGATCCCTGAATGCCACAG
AAACCTCAGAGGCTTGGGATCCCAGGACCTCCAGGCGCTCAAGATCTCCCTTGGCGTGGTCTTTCCGT
CATCACACTGGCCACAGTCCCTCCAATGCCTTGTACTCACCACCATCTTACTCACCAGGAAGCTCCAC
ACCCCTGCCAACTACCTGATTGGCTCCCTGGCCACCACCGACCTCTTGGTTTCCATCTTGGTAATGCCA
TCAGCATCGCCTATACCATCACCCACACCTGGAACCTTTGGCCAAATCTTGTGTGACATCTGGCTGCCTC
TGACATCAGTGTGCACAGCCTCCATCCTGCATCTGTGTGATCTGCTGGACAGGACTGGGCAATC
ACAGATGCCCTGGAATACAGTAAACGCAGGACGGCTGGCCACGCGGCCACCATGATCGCCATTGTCTGGG
CCATCTCCATCTGCATCTCCATCCCCCGCTCTTCTGGCGGCAGGCCAAGGCCAGGAGGAGATGTCGGA
CTGTCTGGTGAACACCTCTCAGATTTCTACACCATCTACTCCACCTGTGGGGCCTTCTACATTCCTCG
GTGTTGCTCATCATCCTATATGGCCGATCTACCGGGCTGCCCGAACCAGCATCTGAATCCACCCTCAC
TCTATGGGAAGCGCTTACCACGGCCACCTCATCACAGGCTCTGCCGGTCTCGCTCTGCTCGCTCAA
CTCCAGCTCCATGAGGGGCACTCGACTCGGCTGGCTCCCCTCTTTTTCAACCACGTGAAAAACAAG
CTTGCTGACAGTGCCTGGAACGCAAGAGGATTTCTGCTGCTCGAGAAAGGAAAGCCACTAAAATCCTGG
GCATCATTCTGGGGCCTTTATCATCTGCTGGCTGCCCTTCTTCGTGGTGTCTCTGGTCCCTCCCATCTG
CCGGGACTCCTGTGGATCCACCCGGCGCTCTTTGACTTCTTACCTGGCTAGGCTATTTAACTCCCTC
ATCAATCCAATAATCTACACTGTGTTAATGAAGAGTTTCGGCAAGCTTTTCAGAAAATTGTCCCTTTCC
GGAAGGCCTCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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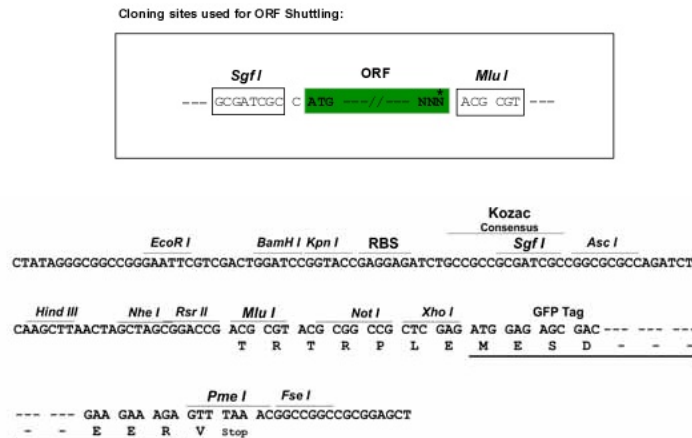
Protein Sequence: >RG202862 representing NM_000864
 Red=Cloning site Green=Tags(s)

MSPLNQSAEGLPQEASNRLNATETSEAWDPRTLQALKISLAVLVSITLATVLSNAFVLTILLTRKLH
 TPANYLIGSLATDILLVSIIVPISIAIYITHTWNFGQILCDIWLSSDITCCTASILHLCVIALDRYWAI
 TDALEYSKRRTAGHAATMIAIIVWAISICISIPPLFWRQAKAQEEMSDCLVNTSQISYTIYSTCGAFYIPS
 VLLIILYGRIYRAARNRILNPPSLYGKRFTHAHLITGSAGSSLCSLNSSLHEGHSAGSPLFFNHVKIK
 LADSALERKRISAARERKATKILGIIIGAFIICWLPFFVSVLPLICRDSWIHPALDFDFTWLGYLNSL
 INPIIYTVFNEEFRQAFQKIVPFRKAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000864

ORF Size: 1131 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_000864.3](#), [NP_000855.1](#)

RefSeq Size: 2855 bp

RefSeq ORF: 1134 bp

Locus ID: 3352

UniProt ID: [P28221](#)

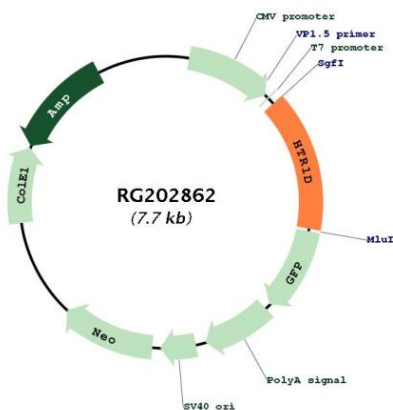
Cytogenetics: 1p36.12

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other 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 RG202862