

Product datasheet for **RG211826**

HTR3D (NM_182537) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HTR3D (NM_182537) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HTR3D
Synonyms: 5HT3D
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211826 representing NM_182537
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTAGTATGTCAATAGTGAAGGCCACATCAAACACAATAAGCCAATGTGGGTGGCCAGCATCTGCAA
 ACTGGACACCTTCTATTTCCCTTCCATGGACAGAGCTGAACGCTCTCCTTCAGCCCTTTCACCTACACA
 GGTGGCCATCAGGCACAGGTGCAGGCCAGCCCTACGTGGTAACTTTCTGGTGCCAGTGGCATTCTG
 ATTGCCATCGATGCCCTCAGTTTCTACCTGCCACTGAAAAGTGGGAATTGTGCCCATCAAGATGACTG
 TTCTGCTGGGCTACAGCGTCTTCTGCTCATGATGAATGACTTGCTCCCAGCCACTAGCACTTCATCACA
 TGCTTCACTAGTACGTCCATCCATCAAGAGACCAAAAGCGAGGTGTCTACTTCGCCCTGTGCCTGTCC
 CTGATGGTGGGCAGCCTGCTGGAGACCATTTTCATCACCCACCTGCTGCACGTGGCCACCCAGCCCC
 TACCTCTGCCTCGGTGGTCCACTCCCTGCTGCTGCACTGCACCGGCCAAGGGAGATGCTGTCCCCTGC
 GCCCAGAAGGGAAATAAGGGCCCGGTCTCACCCACCCACCTGCCCGGTGTGAAGGAGCCAGAGGTA
 TCAGCAGGGCAGATGCCAGGCCCTGGGGAGGCAGAGCTGACAGGGGGCTCAGAATGGACAAGGGCCAGC
 GGAACACGAGGCCAGAACGAGCACTCGGTGGAGCTGTGGTGCAGTTCAGCCACGCGATGGACGCCCT
 GCTCTTCCACCTACCTGCTCTTCATGGCCTCCTCCATCATCACCGTTATGCCTCTGGAACACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211826 representing NM_182537
 Red=Cloning site Green=Tags(s)

MASMSIVKATSNTISQCGWPASANWTPSISPSMDRAERSPSALSPTQVAIRHRCRPSYVFNFLVPSGIL
 IAIDALSFYLPLESGNCAPFKMTVLLGYSVFLMMNDLLPATSTSSHASLVRPHPSRDQKRGVYFALCLS
 LMVGSLLLETIFITHLLHVATTQPLPLRWLHSLLLHCTGQGRCCPTAPQKGNKGPGLTPHLPGVKEPEV
 SAGQMPGPGEAELTGGSEWTRAQREHEAQKQHSVELWVQF SHAMDALLFHLVLLFMASSIIITVICLWNT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182537

ORF Size: 837 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_182537.2](#), [NP_872343.2](#)

RefSeq Size: 1486 bp

RefSeq ORF: 840 bp

Locus ID: 200909

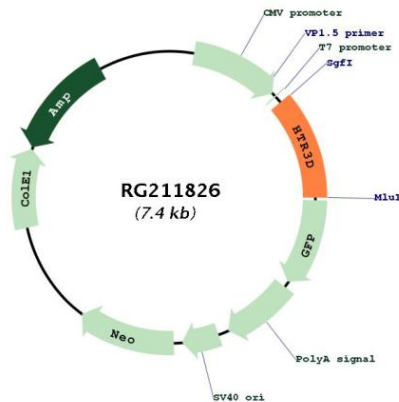
UniProt ID: [Q70Z44](#)

Cytogenetics: 3q27.1

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Gene Summary: The protein encoded this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit D of the type 3 receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a mitogen and a hormone. This hormone has been linked to neuropsychiatric disorders, including anxiety, depression, and migraine. Serotonin receptors causes fast and depolarizing responses in neurons following activation. The genes encoding subunits C, D and E of this type 3 receptor form a cluster on chromosome 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]

Product images:



Circular map for RG211826