

## Product datasheet for **RG227777**

### HTR3D (NM\_001145143) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HTR3D (NM\_001145143) 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:** >RG227777 representing NM\_001145143  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAAAGAGGCTGGTTCATGGGAAAGGATTCTCCTTGGCTTCATCCTCCACCTGCTGCTGCAAGATT  
 CACACCTTCAACTGGTGACATCGTTCCTGTGGCTAAATATGTGGAACCCAGATGAATGCGGAGGCATCAA  
 GAAGTCCGGCATGGCAACTGAGAACCTATGGCTTTCAGATGTCTTCATCGAGGAGTCTGTGGATCAGACA  
 CCTGCAGGTCTCATGGCTAGTATGTCAATAGTGAAGGCCACATCAAACACAATAAGCCAATGTGGGTGGT  
 CAGCATCTGCAAAGTGGACACCTTCTATTTCCCTTCCATGGACAGAGGTGAACGCTCTCCTTCAGCCCT  
 TTCACCTACACAGGTAACCCGGGCATGGAGAAGGATGTCCAGGAGCTTCAAATACATCACAGAACCTCA  
 TTCAGAACAGGAGGGAGTGGTACTGTGGGTATCCAAAAAAGAACAATAAAGGTGACCGTGGCCACTA  
 ACCAGTATGAACAAGCCATCTTCCATGTGGCCATCAGGCGCAGGTGCAGGCCAGCCCTACGTGGTAAA  
 CTTTCTGGTGCCAGTGGCATTCTGATTGCCATCGATGCCCTCAGTTTCTACCTGCCACTGGAAAGTGGG  
 AATTGTGCCCCATTCAAGATGACTGTTCTGCTGGGCTACAGCGTCTTCTGCTCATGATGAATGACTTGC  
 TCCAGCCACTAGCACTTCATCATATGCTTCACTAGTACGTCCTCATCCATCAAGAGACCAAAAGCGAGG  
 TGCTACTTCGCCCTGTGCCTGTCCCTGATGGTGGCAGCCTGCTGGAGACCATCTTCATACCCACCTG  
 CTGCACGTGGCCACCACCCAGCCCTACCTCTGCCTCGGTGGCTCCACTCCCTGCTGCTGCACCTGCACCC  
 GCCAAGGGAGATGCTGTCCCACTGCGCCCCAGAAGGGAAATAAGGGCCCGGGTCTCACCCCAACCCACT  
 GCCCGGTGTGAAGGAGCCAGAGGTATCAGCAGGGCAGATGCCAGGCCCTGGGGAGGCAGAGCTGACAGGG  
 GGCTCAGAATGGACAAGGGCCAGCGGGAAACAGAGGCCAGAAGCAGCACTCGGTGGAGCTGTGGGTGC  
 AGTTCAGCCACGCGATGGACGCCCTGCTCTCCGCTCTACCTGCTTTCATGGCCTCCTCCATCATCAC  
 CGTCATATGCCTCTGGAACACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227777 representing NM\_001145143  
 Red=Cloning site Green=Tags(s)

MERGWFHGKGFLLGFILHLLQDShLQLVTSFLWLNmWNPDECGGIKkSGMATENLWLSDFIEESVDQT  
 PAGLMASMSIVKATSNTISQCGWSASANWTPSISPSMDRGERSPSALSPTQVTRAWRRMSRSFQIHHRSTS  
 FRTRREWVLLGIQKRTIKVTVATNQYEQAIFHVAIRRRRCRSPYVVNFLVPSGILIAIDALSFYLPLESG  
 NCAPFKMTVLLGYSVFLLMMNDLLPATSTSSHASLVRPHPSRDQKRGVYFALCLSLMVGSLLETIFITHL  
 LHVATTQPLPLRWLHSLLLHCTGQGRCCPTAPQKGNKGPGLTPTHLPGVKEPEVSAGQMPGPGEAELTG  
 GSEWTRAQREHAQKQHSVELWVQFSHAMDALLFRLYLLFMASIIITVICLWNT

TRTRPLE - GFP Tag - V

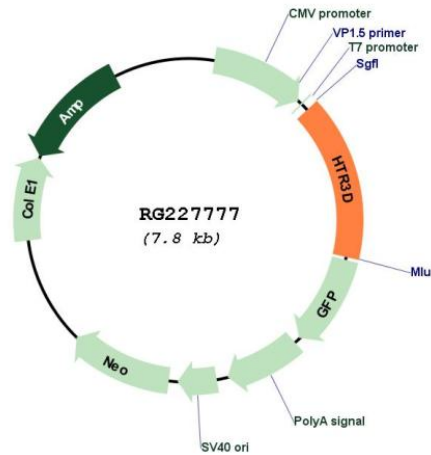
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001145143

<b>ORF Size:</b>	1212 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001145143.1</a> , <a href="#">NP_001138615.1</a>
<b>RefSeq Size:</b>	1609 bp
<b>RefSeq ORF:</b>	1215 bp
<b>Locus ID:</b>	200909
<b>UniProt ID:</b>	<a href="#">Q70Z44</a>
<b>Cytogenetics:</b>	3q27.1
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
<b>Gene Summary:</b>	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]