

Product datasheet for **RG228377**

5HT3A receptor (HTR3A) (NM_001161772) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT3A receptor (HTR3A) (NM_001161772) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HTR3A
Synonyms:	5-HT-3; 5-HT3A; 5-HT3R; 5HT3R; HTR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228377 representing NM_001161772
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCATAGGTCCTTTCTACAAGCCAGGAGAGCCGAAACACCACCAGGCCGCTCTGCTGAGGCTGTCGG
 ATTACCTTTTGACCAACTACAGGAAGGGTGTGCGCCCGTGAGGGACTGGAGGAAGCCAACCACCGTATC
 CATTGACGTCATTGTCTATGCCATCCTCAACGTGGATGAGAAGAATCAGGTGCTGACCACCTACATCTGG
 TACCGGCAGTACTGGACTGATGAGTTTCTCCAGTGAACCCTGAGGACTTTGACAACATCACCAAGTTGT
 CCATCCCCACGGACAGCATCTGGGTCCCGGACATTCTCATCAATGAGTTCGTGGATGTGGGGAAGTCTCC
 AAATATCCCGTACGTGTATATTCGGCATCAAGGCGAAGTTCAGAACTACAAGCCCCTTCAGGTGGTACT
 GCCTGTAGCCTCGACATCTACAACCTCCCTTCGATGTCCAGAAGTCTCGCTGACCTTCACCAGTTGGC
 TGCACACCATCCAGGACATCAACATCTCTTTGTGGCGCTTGCCAGAAAAGGTGAAATCCGACAGGAGTGT
 CTTTCATGAACCAGGAGAGTGGGAGTTGCTGGGGGTGCTGCCCTACTTTCCGGGAGTTCAGCATGGAAGC
 AGTAACTACTATGCAGAAATGAAGTTCTATGTGGTTCATCCGCGCGGCCCTCTTCTATGTGGTCAGCC
 TGCTACTGCCAGCATCTTCTCATGGTCATGGACATCGTGGGCTTCTACCTGCCCCCAACAGTGGCGA
 GAGGGTCTCTTTCAAGATTACACTCCTCCTGGGCTACTCGGTCTTCTGATCATCGTTTCTGACACGCTG
 CCGGCCACTGCCATCGGCACTCCTCATTGGTGTCTACTTTGTGGTGTGCATGGCTCTGCTGGTGATAA
 GTTTGGCCGAGACCATCTTATTGTGCGGCTGGTGACAAGCAAGACCTGCAGCAGCCCGTGCCTGCTTG
 GCTGCGTCACTGGTCTGGAGAGAATCGCTGGCTACTTTGCCCTGAGGGAGCAGTCAACTTCCCAGAGG
 CCCCCAGCCACCTCCCAAGCCACCAAGACTGATGACTGCTCAGCCATGGGAAACCACTGCAGCCACATGG
 GAGGACCCAGGACTTCGAGAAGAGCCGAGGGACAGATGTAGCCCTCCCCACCACCTCGGGAGGCCTC
 GCTGGCGGTGTGTGGCTGCTGCAGGAGCTGTCCCTCCATCCGGCAATTCCTGAAAAGCGGGATGAGATC
 CGAGAGGTGGCCGAGACTGGCTGCGCGTGGGCTCCGTGCTGGACAAGCTGCTATTCCACATTTACCTGC
 TAGCGGTGCTGGCTACAGCATCACCTGGTTATGCTCTGGTCCATCTGGCAGTACGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228377 representing NM_001161772
 Red=Cloning site Green=Tags(s)

MHRSFLQARRSRNTTRPALLRLSDYLLTNYRKGVRPVRDWRKPTTVSIDVIVYAILNVDEKNQVLTTYIW
 YRQYWTDEFLQWNPEDFDNITKLSIPTDSIWVPDILINEFVDVGKSPNIPVYVYIRHQGEVQNYKPLQVVT
 ACSLDIYNFPFDVQNCSLTFTSWLHTIQDINISLWRLPEKVKSDRSVFMNQGEWELLGVLPHYREFSMES
 SNYYAEMKFYVYVIRRRPLFYVVSLLLPSIFLMVMDIVGFYLPNSGERVSKITLLLGYVFLIIVSDTL
 PATAIGTPLIGVYFVVMALLVISLAETIFIVRLVHKQDLQQPVPWLRHLVLERIAWLLCLREQSTSQR
 PPATSQATKTDDCSAMGNHCSHMGGPQDFEKSPPDRCSPPPPPREASLAVCGLLQELSSIRQFLEKRDEI
 REWARDWLRVGSVLDKLLFHIYLLAVLAYSITLVMLWSIWQYA

TRTRPLE - GFP Tag - V

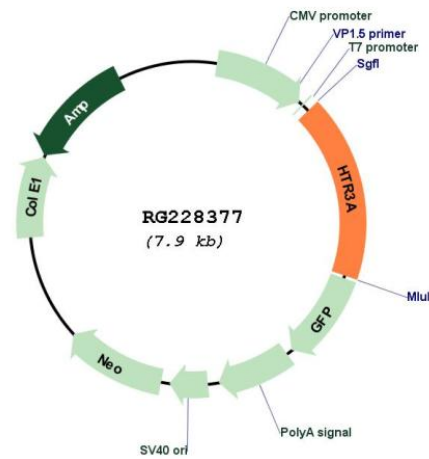
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001161772

ORF Size: 1389 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:	<ol style="list-style-type: none">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_001161772.3
RefSeq Size:	2019 bp
RefSeq ORF:	1392 bp
Locus ID:	3359
UniProt ID:	P46098
Cytogenetics:	11q23.2
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Gene Summary:	The product of this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit A of the type 3 receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor causes fast, depolarizing responses in neurons after activation. It appears that the heteromeric combination of A and B subunits is necessary to provide the full functional features of this receptor, since either subunit alone results in receptors with very low conductance and response amplitude. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]