

Product datasheet for **RG216554**

5HT7 Receptor (HTR7) (NM_000872) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT7 Receptor (HTR7) (NM_000872) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	5HT7 Receptor
Synonyms:	5-HT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG216554 representing NM_000872
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGACGTTAACAGCAGCGGCCGCCGACCTCTACGGGCACCTCCGCTCTTTCCTTCTGCCAGAAG
 TGGGGCGCGGGCTGCCGACTTGAGCCCGACGGTGGCGCCGACCCGGTCGCGGGCTCCTGGGCGCCGCA
 CCTGCTGAGCGAGGTGACAGCCAGCCCGCGGCCACCTGGGACGCGCCCCGACAAATGCCTCCGGCTGT
 GGGGAACAGATCAACTACGGCAGAGTCGAGAAAGTTGTGATCGGCTCCATCCTGACGCTCATCACGCTGC
 TGACGATCGCGGGCAACTGCCTGGTGGTATCTCCGTGTGCTTCGTCAAGAAGCTCCGCCAGCCCTCAA
 CTACCTGATCGTGTCCCTGGCGCTGGCCGACCTCTCGGTGGCTGTGGCGGTCATGCCCTTCGTCAGCGTC
 ACCGACCTCATCGGGGCAAGTGGATCTTTGGACACTTTTTCTGTAATGTCTTCATCGCCATGGACGTCA
 TGTGCTGCACGGCTCGATCATGACCCTGTGCGTATCAGCATTGACAGGTACCTTGGGATCACAAGGCC
 CCTCACATACCCTGTGAGGCAGAATGGGAAATGCATGGCGAAGATGATTCTCCTCGTCTGGCTTCTCTCC
 GCCTCCATCACCTTACCTCCACTCTTTGGATGGCTCAGAATGTAATGATGATAAGGTGTGCTTGATCA
 GCCAGGACTTTGGCTATACGATTTACTCTACCGCAGTGGCATTATATATCCCATGTCCGTCATGCTTTT
 CATGTACTACCAGATTTACAAGGCTGCCAGGAAGAGTGTGCCAAACACAAGTTTCTGGCTTCCCTCGA
 GTGGAGCCAGACAGCGTCATCGCCCTGAATGGCATAGTGAAGCTCCAGAAGGAGGTGGAAGAGTGTGCAA
 ACCTTTGAGACTCCTCAAGCATGAAAGGAAAAACATCTCCATCTTTAAGCGAGAACAGAAAAGCAGCCAC
 CACCCTGGGGATCATCGTCGGGGCCTTACCCTGTGCTGGCTGCCATTTTCTCCTCTCGACAGCCAGA
 CCCTTCATCTGTGGCACTTCTCGACGTCATCCACTGTGGGTGGAGAGGACATTTCTGTGGCTAGGCT
 ATGCAAACCTCTCATTAAACCTTTTATATATGCCTTCTCAACCGGGACCTGAGGACCACCTATCGCAG
 CCTGCTCCAGTGCCAGTACCGGAATATCAACCGGAAGCTCTCAGCTGCAGGCATGCATGAAGCCCTGAAG
 CTTGCTGAGAGGCCAGAGAGACCTGAGTTTGTGCTACAAAATGCTGACTACTGTAGAAAAAAGGTATG
 ATTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216554 representing NM_000872
 Red=Cloning site Green=Tags(s)

MMDVNSSGRPDLYGHLRSFLLPEVGRGLPDLSPDGGADPVAGSWAPHLLSEVTASPAPTWDAPPDNASGC
 GEQINYGRVEKVVIGSILTLITLLTIAGNCLVVISVCFVKKLRQPSNYLIVSLALADLSVAVAVMPFVSV
 TDLIGGKWIIFGHFFCNVFIAMDVMCCTASIMTLCVISIDRYLGI TRPLTYPVRQNGKCMAMKILSVWLLS
 ASITLPLFGWAQNVNDDKVCLISQDFGYTIYSTAVAFYIPMSVLMFYQIYKAARKSAAKHKFPFGFPR
 VEPDSVIALNGIVKLQKEVEECANLSRLKHERKNI SIFKREQKAATTLGIIVGAFVVCWLPFFLLSTAR
 PFICGTSKSCIPLWVERTFLWLGYANSLINPFIYAFNRDLRTTYRSLQCQYRNINRKL SAAGMHEALK
 LAERPERPEFVLQNADYCRKKGHDS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_000872

ORF Size: 1335 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_000872.5](#)

RefSeq Size: 3263 bp

RefSeq ORF: 1338 bp

Locus ID: 3363

UniProt ID: [P34969](#)

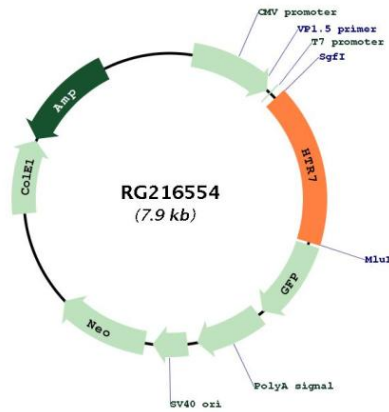
Cytogenetics: 10q23.31

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

Gene Summary: The neurotransmitter, serotonin, is thought to play a role in various cognitive and behavioral functions. The serotonin receptor encoded by this gene belongs to the superfamily of G protein-coupled receptors and the gene is a candidate locus for involvement in autistic disorder and other neuropsychiatric disorders. Three splice variants have been identified which encode proteins that differ in the length of their carboxy terminal ends. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216554