

Product datasheet for **RC220748**

5HT7 Receptor (HTR7) (NM_019859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT7 Receptor (HTR7) (NM_019859) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	5HT7 Receptor
Synonyms:	5-HT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC220748 representing NM_019859
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGACGTTAACAGCAGCGGCCGCCGACCTCTACGGGCACCTCCGCTCTTTCCTTCTGCCAGAAG
 TGGGGCGCGGGCTGCCGACTTGAGCCCGACGGTGGCGCCGACCCGGTCGCGGGCTCCTGGGCGCCGCA
 CCTGCTGAGCGAGGTGACAGCCAGCCCGCGCCACCTGGGACGCGCCCCGACAAATGCCTCCGGCTGT
 GGGGAACAGATCAACTACGGCAGAGTCGAGAAAGTTGTGATCGGCTCCATCCTGACGCTCATCACGCTGC
 TGACGATCGCGGGCAACTGCCTGGTGGTATCTCCGTGTGCTTCGTCAGAAAGCTCCGCCAGCCCTCAA
 CTACCTGATCGTGTCCCTGGCGCTGGCCGACCTCTCGGTGGCTGTGGCGGTCATGCCCTTCGTCAGCGTC
 ACCGACCTCATCGGGGCAAGTGGATCTTTGGACACTTTTTCTGTAATGTCTTCATCGCCATGGACGTCA
 TGTGCTGCACGGCTCGATCATACCCTGTGCGTATCAGCATTGACAGGTACCTTGGGATCACAAGGCC
 CCTCACATACCCTGTGAGGCAGAAATGGGAAATGCATGGCGAAGATGATTCTCCTCGTCTGGCTTCTCTCC
 GCCTCCATCACCTTACCTCCACTCTTTGGATGGGCTCAGAATGTAATGATGATAAGGTGTGCTTATCA
 GCCAGGACTTTGGCTATACGATTTACTCTACCGCAGTGGCATTATATATCCCATGTCCGTCATGCTTTT
 CATGTACTACCAGATTTACAAGGCTGCCAGGAAGAGTGTGCCAAACACAAGTTTCTGGCTTCCCTCGA
 GTGGAGCCAGACAGCGTCATCGCCCTGAATGGCATAAGTGAAGCTCCAGAAGGAGGTGGAAGAGTGTGCAA
 ACCTTTGAGACTCCTCAAGCATGAAAGGAAAAACATCTCCATCTTTAAGCGAGAACAGAAAGCAGCCAC
 CACCCTGGGGATCATCGTCGGGGCCTTACCCTGTGCTGGCTGCCATTTTCTCCTCTCGACAGCCAGA
 CCCTTCATCTGTGGCACTTCTCGACGTGCATCCACTGTGGGTGGAGAGGACATTTCTGTGGCTAGGCT
 ATGCAAACTCTCATTAAACCTTTTATATATGCTTCTTCAACCGGGACCTGAGGACCACCTATCGCAG
 CCTGCTCCAGTGCCAGTACCGGAATATCAACCGGAAGCTCTCAGCTGCAGGCATGCATGAAGCCCTGAAG
 CTTGCTGAGAGGCCAGAGAGACCTGAGTTTGTGCTGAGGGCTGCACAAGGAGGGTGTGTTGAGACCAG
 AAAAGAGGCCACCGGTATCTGTGTGGTGTACAATCTCCAGACCATCACAATTGGTTAGCAGACAAAAT
 GCTGACTACTGTAGAAAAAAGGTCATGATTCATGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220748 representing NM_019859
 Red=Cloning site Green=Tags(s)

MMDVNSSGRPDL YGHLRSFLLPEVGRGLPDLSPDGGADPVAGSWAPHLLSEVTASPAPTWDAPPDNASGC
 GEQINYGRVEKVVIGSILTLITLLTIAGNCLVVISVCFVKKLRQPSNYLIVSLALADLSVAVAVMPFVSV
 TDLIGGKWIFGHFFCNVFIAMDVMCCTASIMTLCVISEDRLGITRPLTYPVRQNGKCMAMKILSVWLLS
 ASITLPLPLFGWAQNVNDDKVCLISQDFGYTIYSTAVAFYIPMSVLMFYQIYKAARKSAAKHKFPFPR
 VEPDSVIALNGIVKLQKEVEECANLSRLKHERKNISIFKREQKAATTLGIIVGAFTVCWLPFFLLSTAR
 PFICGTSCSCIPLWVERTFLWLGYANSLINPFIYAFFNRDLRTTYRSLQCQYRNINRKLAAAGMHEALK
 LAERPERPEFVLRACTRRVLRRPEKRPPVSVWVLQSPDHHNWLADKMLTTVEKKVMIHD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8062_f02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_019859

ORF Size: 1437 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

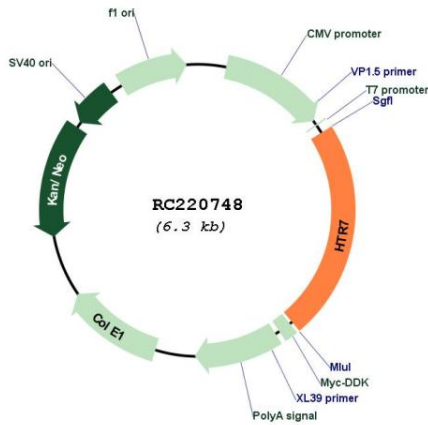
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_019859.4
RefSeq Size:	3396 bp
RefSeq ORF:	1440 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
MW:	53.4 kDa
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 RC220748