Product datasheet for SC304689

5HT7 Receptor (HTR7) (NM_019859) Human Untagged Clone

Product data:

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

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Fully Sequenced ORF:

>SC304689 representing NM_019859.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGGACGTTAACAGCAGCGGCCGCCCGGACCTCTACGGGCACCTCCGCTCTTTCCTTCTGCCAGAA
GTGGGGCGCGGGCTGCCCGACTTGAGCCCCGACGGTGGCGCCGACCCGGTCGCGGGCTCCTGGGCGCCG
CACCTGCTGAGCGAGGTGACAGCCAGCCCGGCGCCCACCTGGGACGCGCCCCCGGACAATGCCTCCGGC
TGTGGGGAACAGATCAACTACGGCAGAGTCGAGAAAGTTGTGATCGGCTCCATCCTGACGCTCATCACG
CTGCTGACGATCGCGGGCAACTGCCTGGTGGTGATCTCCGTGTGCTTCGTCAAGAAGCTCCGCCAGCCC
TCCAACTACCTGATCGTGTCCCTGGCGCTGGCCGACCTCTCGGTGGCTGTGGCGGTCATGCCCTTCGTC
AGCGTCACCGACCTCATCGGGGGCAAGTGGATCTTTGGACACTTTTTCTGTAATGTCTTCATCGCCATG
GACGTCATGTGCTGCACGGCCTCGATCATGACCCTGTGCGTGATCAGCATTGACAGGTACCTTGGGATC
ACAAGGCCCCTCACATACCCTGTGAGGCAGAATGGGAAATGCATGGCGAAGATGATTCTCTCCGTCTGG
CTTCTCTCCGCCTCCATCACCTTACCTCCACTCTTTGGATGGGCTCAGAATGTAAATGATGATAAGGTG
TGCTTGATCAGCCAGGACTTTGGCTATACGATTTACTCTACCGCAGTGGCATTTTATATCCCCATGTCC
GTCATGCTTTTCATGTACTACCAGATTTACAAGGCTGCCAGGAAGAGTGCTGCCAAACACAAGTTTCCT
GGCTTCCCTCGAGTGGAGCCAGACAGCGTCATCGCCCTGAATGGCATAGTGAAGCTCCAGAAGGAGGTG
GAAGAGTGTGCAAACCTTTCGAGACTCCTCAAGCATGAAAGGAAAAACATCTCCATCTTTAAGCGAGAA
CAGAAAGCAGCCACCACCCTGGGGATCATCGTCGGGGCCTTTACCGTGTGCTGGCTGCCATTTTTCCTC
CTCTCGACAGCCAGACCCTTCATCTGTGGCACTTCCTGCAGCTGCATCCCACTGTGGGTGGAGAGGACA
TTTCTGTGGCTAGGCTATGCAAACTCTCTCATTAACCCTTTTATATATGCCTTCTTCAACCGGGACCTG
AGGACCACCTATCGCAGCCTGCTCCAGTGCCAGTACCGGAATATCAACCGGAAGCTCTCAGCTGCAGGC
ATGCATGAAGCCCTGAAGCTTGCTGAGAGGCCAGAGAGACCTGAGTTTGTGCTGAGGGCCTGCACAAGG
AGGGTGCTGTTGAGACCAGAAAGAGGCCACCGGTATCTGTGTGGGTGCTACAATCTCCAGACCATCAC
AATTGGTTAGCAGACAAAATGCTGACTACTGTAGAAAAAAAGGTCATGATTCATGATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_019859

Insert Size: 1440 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_019859.3
RefSeq Size:	3378 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:	53.6 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] Transcript Variant: This variant (d) results from the inclusion of a 98 base pair exon cassette (exon D) at the exon II/exon III boundary, as compared to splice variant a. The inclusion of exon D results in a protein with a carboxy terminal end 34 amino acids longer than the splice variant a protein.