

Product datasheet for **MG217656**

Htr5a (NM_008314) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr5a (NM_008314) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Htr5a
Synonyms:	Htr5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217656 representing NM_008314 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTGCCTGTAACCTTGACCTCCTTTTCTCTCTACTCCCTCCTTTTGGAACTAACCGCAGCT
TGGACACGGAAGTCTGCGCCCTAGTCGGCCTTTTCTCTCAGCTTCCGAGTGCTAGTCTGACTTTGTT
GGGCTTCTAGCTGCGGCCACATTCACTTGGAACTGCTGGTGTGGCTACCATCCTCAAGGTACGCACC
TCCACCGAGTACCACACAACCTGGTAGCTTCCATGGCCATCTCGGATGTGCTAGTGGCTGTGCTGGTTA
TGCCACTGAGCCTGGTACATGAGCTGTCTGGGCGCCGCTGGCAGCTGGGCGGCGTCTATGCCAGCTGTG
GATCGCATGTGAGCTGCTCTGCTGACTGCCAGCATCTGGAATGTGACAGCAATAGCTCTGGACCGCTAC
TGGTCAATCACGCGCCACCTGGAGTACACACTCCGTACCCGCAAGCGTGTCTCCAATGTGATGATCCTGC
TCACCTGGGCACTCTCCACTGTCATCTCTCTGGCTCCACTGCTATTTGGCTGGGAGAGACTTATTCTGA
GCCCAGTGAGGAATGCCAAGTCAGTCGCGAGCCTTCTACACCGTGTCTCCACCGTGGGTGCCTTCTAC
CTGCCGCTGTGCGTGGTGTCTTTGTGTACTGAAAAATTTACAGGGCGGCGAAATTCGCATGGGCTCCA
GGAAGACCAACAGCGTCTCCCCGTACCCGAAGCTGTGGAGGTGAAGAATGCTACACAACATCCCCAGAT
GGTGTTCACGGTCCGCCATGCCACCGTCACCTTCCAGACAGAAGGGGATACGTGGAGGGAGCAGAAGGAG
CAAAGGGCAGCCCTCATGGTGGGATCCTCATCGGAGTGTGGTGTCTGCTGGTCCCTTCTCTCGTCA
CAGAGCTCATAGTCCCCTGTGTTCTGGGACGTCCTGCGCATCTGGAAGAGCATCTTCTGTGGTTGGG
CTATTCTAATTCCTTCTCAACCCACTCATCTACACAGCATTCAACAGGAGCTACAGCAGTGTCTTCAAG
GTCTTCTCTCAAGCAACAA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217656 representing NM_008314
 Red=Cloning site Green=Tags(s)

MDLPVNLTSFSLSTPSSLEPNRSLDTEVLRPSRPFLSAFRVVLVLTLLGFLAAATFTWNLLVLATILKVRT
 FHRVPHNLVASMAISDVLVAVLVMPLSLVHEL SGRRWQLGRRLCQLWIACDVLCTASIWNVTIALDRY
 WSITRHLEYTLRTRKRVSNVMILLTVALSTVISLAPLLFGWGETYSEPSEECQVSREPSYTVFSTVGAFY
 LPLCVVLFVYWKIYRAAKFRMGSRKNTNSVSPVPEAVEVKNATQHPQMVFTVRHATVTFQTEGDTWREQKE
 QRAALMVGILIGVFVLCWFPFVTELISPLCSWDVPAIWKSI FLWLGYSNSFFNPLIYTAFNRSYSSAFK
 VFFSKQQ

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3717_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008314

ORF Size: 1071 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_008314.2](#), [NP_032340.2](#)

RefSeq Size: 5576 bp

RefSeq ORF: 1074 bp

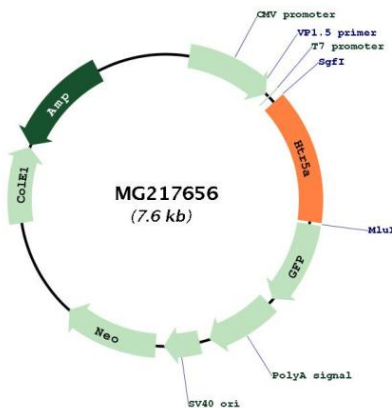
Locus ID: 15563

UniProt ID: [P30966](#)

Cytogenetics: 5 13.24 cM

Gene Summary: This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. The activity of this receptor is mediated by G proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217656