

## Product datasheet for MR217656

### Htr5a (NM\_008314) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Htr5a (NM_008314) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Htr5a
Synonyms:	Htr5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217656 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCTGCCTGTAACCTTGACCTCCTTTCTCTCTACTCCCTCCTTTGGAACCTAACCGCAGCT  
TGGACACGGAAGTCTGCGCCCTAGTCGGCCTTTCTCTCAGCTTCCGAGTGCTAGTCTGACTTTGTT  
GGGCTTTCTAGCTGCGGCCACATTCACTTGGAACTGCTGGTGTGGCTACCATCCTCAAGGTACGCACC  
TCCACCGAGTACCACACAACCTGGTAGCTTCCATGGCCATCTCGGATGTGCTAGTGGCTGTGCTGGTTA  
TGCCACTGAGCCTGGTACATGAGCTGTCTGGGCGCGCTGGCAGCTGGGCGGCTCTATGCCAGCTGTG  
GATCGCATGTGAGCTGCTCTGCTGACTGCCAGCATCTGGAATGTGACAGCAATAGCTCTGGACCGCTAC  
TGGTCAATCACGCGCCACCTGGAGTACACACTCCGTACCCGCAAGCGTGTCTCCAATGTGATGATCCTGC  
TCACCTGGGCACTCTCCACTGTCATCTCTCTGGCTCCACTGCTATTTGGCTGGGAGAGACTTATTCTGA  
GCCCAGTGAGGAATGCCAAGTCAGTCGCGAGCCTTCTACACCGTGTCTCCACCGTGGGTGCCTTCTAC  
CTGCCGCTGTGCGTGGTGTCTTTGTGTACTGAAAAATTTACAGGGCGGCGAAATTCGCATGGGCTCCA  
GGAAGACCAACAGCGTCTCCCCGTACCCGAAGCTGTGGAGGTGAAGAATGCTACGCAACATCCCCAGAT  
GGTGTTCACGGTCCGCCATGCCACCGTCACTTTCCAGACAGAAGGGGATACGTGGAGGGAGCAGAAGGAG  
CAAAGGGCAGCCCTCATGGTGGCATCCTCATCGGAGTGTGCTGCTGCTGGTCCCTTCTCTCGTCA  
CAGAGCTCATCAGTCCCCTGTGTTCTGGGACGTCCTGCCATCTGGAAGAGCATCTCCTGTGGTTGGG  
CTATTCTAATTCCTTCTCAACCCACTCATCTACACAGCATTCAACAGGAGCTACAGCAGTCTTCAAG  
GTCTTCTCTCCAAGCAACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR217656 protein sequence  
Red=Cloning site Green=Tags(s)

MDLPVNLTSFSLSTPSSLEPNRSLDTEVLRPSRPFLSAFRVLVLTLLGFLAAATFTWNLLVLATILKVRT  
 FHRVPHNLVASMAISDVLVAVLVMPLSLVHEL SGRRWQLGRRLCQLWIACDVLCTASIWNVTIALDRY  
 WSITRHLLEYTLRTRKRVSNVMILLTVALSTVISLAPLLFGWGETYSEPSEECQVSREPSYTVFSTVGAFY  
 LPLCVVLFVYWKIYRAAKFRMGSRKTNVSPVPEAVEVKNATQHPQMVFTVRHATVTFQTEGDTWREQKE  
 QRAALMVGILIGVFVLCWFPFFVTE LISPLCSWDVPAIWKSI FLWLGYSNSFFNPLIYTA FNRSYSSAFK  
 VFFSKQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_008314

**ORF Size:** 1074 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\\_008314.1](#), [NM\\_008314.2](#), [NP\\_032340.2](#)

**RefSeq Size:** 5576 bp

**RefSeq ORF:** 1074 bp

**Locus ID:** 15563

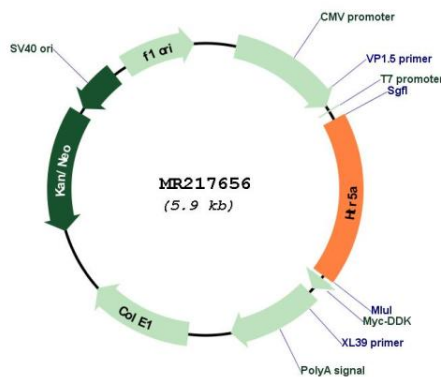
**UniProt ID:** [P30966](#)

**Cytogenetics:** 5 13.24 cM

**MW:** 40.7 kDa

**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 MR217656