

## Product datasheet for **RR205270**

### Htr2b (NM\_017250) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Htr2b (NM_017250) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Htr2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR205270 representing NM\_017250  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTTCATCTTATAAAATGTCTGAACAAAGCACAATTTCTGAGCACATTTTGCAGAAAACATGTGATC  
 ACCTGATCTTGACTGACCGTTCTGGATTAAGGCAGAATCAGCAGCAGAGGAAATGAAGCAGACTGCCGA  
 GAACCAGGGGAATACAGTGCCTGGCAGCTCTCTGATCTTCGCGGTAATAATCCCCACCATTGGCGGG  
 AACATCTGGTTATTCTGGCTGTTTCACTGGAGAAAAGGCTGCAGTACGCTACCAACTACTTTCTAATGT  
 CCTTGGCGGTGGCTGATTTGCTGGTTGGATTGTTTGTGATGCCGATTGCTCTTAAACAATCATGTTTGA  
 GGCTACATGGCCCTCCCACTGGCCCTGTGCTGCTGGTTATTCTTGATGTTCTTTTTCAACTGCC  
 TCCATCATGCATCTGTGCCATTTCCCTGGATCGCTATATAGCCATCAAAAAGCCAATTCAGGCCAATC  
 AGTGAATCCCAGACTACTGCATTCGCAAGATTACGGTGGTATGGTTAATTTCAATAGGCATCGCCAT  
 CCCAGTCCCTATTAAGGAATAGAGGCTGATGTGGTCAACGCACACAACATCACCTGTGAGCTGACAAAG  
 GACCGCTTTGGCAGTTTCATGCTCTTTGGGTCACTGGCTGCTTTCTTTGCACCTCTACCATCATGATAG  
 TCACCTACTTTCTCACCATTACGCTTTGCGGAAGAAAGCTTACTTGGTCAAGAAACAGGCCACCTCAACG  
 CCTAACACGGTGGACTGTGTCCACAGTTCTCAAAGGGAAGACTCATCTTTTCATCACCAGAAAAGATG  
 GTGATGCTGGATGGCTCTACAAGGATAAAATTCTACCTAACTCAACTGATGAGACACTGATGAGAAGAA  
 TGTCTCAGCAGGAAAAAACAGCCAGACCATTCTAATGAACAGAGAGCCTCAAAGGTCCTTGGAAAT  
 TGTGTTTCTCTTTCTGCTTATGTGGTGGCCCTTTTTCATTACAAACGTAACCTTAGCTCTGTGTGAT  
 TCCTGCAACCAGACTACTCTCAAACACTCCTGCAGATATTTGTGTGGTAGGCTACGTTTCCTCGGGAG  
 TGAATCCTTTGATCTATACCCTTTCAATAAGACATTTTCGGAAGCATTGGCAGGTACATCACTGCAA  
 TTACCAGGCCACAAAGTCAGTAAAGTGTCTAGAAAGTGTCTAGTACACTCTATTTTGGGAATTCATG  
 GTAGAAAACCTAAATTTTTACAAAACATGGAATTCGAAATGGGATCAACCCTGCCATGTACCAGACC  
 CAGTAAGGCTCCGAAGTTCAACCATTAGTCTTCATCCATCATTCTCCTCAATACATTTCTCACTGAAAA  
 CGATGGTGACAAAGTAGAAGACCAAGTCAGCTACATA

**ACCGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR205270 representing NM\_017250  
 Red=Cloning site Green=Tags(s)

MASSYKMQSEQSTISEHILQKTC DHLIL TDRSGLKAESAAEEMKQTAENQGN TVHWAALLIFAVIIPTIGG  
 NILVILAVSLEKRLQYATNYFLMSLAVADLLVGLFVMP IALLTIMFEATWPLPLALCPAWFLDVLVSTA  
 SIMHLCAISLDRYIAIKKPIQANQCNSRRTAFVKITVVWLISIGIAIPVPIK GIEADVVAHNITCELT  
 DRFGSFM LFGSLAAFFAPL TIMIVTYFLTIHALRKKAYLVRNRPQRLTRWTVSTVLQREDSFSSPEKM  
 VMLDGSHKDKILPNSTDETL MRRMSSAGKKPAQ TISNEQRASKVLGIVLFFLLMWC PFFITNVTLALCD  
 SCNQTTLKLLQIFVWVGYVSSGVNPLIYTLFNKTFREAFGRYITCN YQATKSVKVLKCSSTLYFGNSM  
 VENSKFFTKHGIRNGINPAMYQSPVRLRSSTIQSSS IILLNTFLTENDGDKVEDQVSYI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1732\\_g09.zip](https://cdn.origene.com/chromatograms/ja1732_g09.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_017250

**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](mailto: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](#)

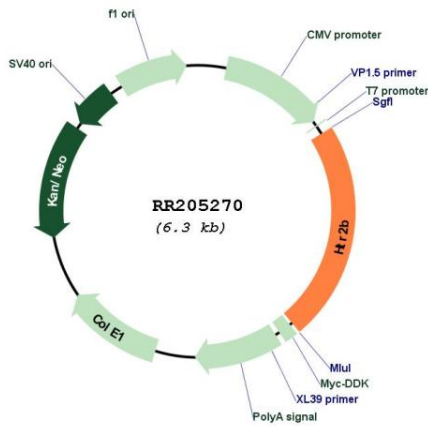
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_017250.1, NP\\_058946.1](#)  
**RefSeq Size:** 2021 bp  
**RefSeq ORF:** 1440 bp  
**Locus ID:** 29581  
**UniProt ID:** [P30994](#)  
**Cytogenetics:** 9q35  
**MW:** 54.1 kDa  
**Gene Summary:** G-protein coupled receptor for serotonin [RGD, Feb 2006]

**Product images:**



Circular map for RR205270