

Product datasheet for **RR208836**

Htr2a (NM_017254) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr2a (NM_017254) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Htr2a
Synonyms:	5-HT2A; 5Ht-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR208836 representing NM_017254
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAATCTTTGTGAAGACAATATCTCTGAGCTCAATCCAACTCCTTAATGCAATTAGGTGAT
 GCCCGAGGCTCTACCATAATGACTTCAACTCCAGAGATGCTAACACTTCGGAAGCATCGAACTGGACAAT
 TGATGCTGAAAACAGAACCAACCTCTCCTGTGAAGGGTACCTCCACCGACATGCCTCTCCATTCTTCAT
 CTCAGGAAAAAACTGGTCTGCTTTATTGACAACTGTCGTGATTATTCTCACCATTGCTGGAAATATAC
 TGGTCATCATGGCAGTGTCCCTAGAAAAAAGCTGCAGAATGCCACCAACTATTTCTGATGTCACTTGC
 CATAGCTGATGCTGCTGGTTTCTTGTGCATGCCTGTGCCATGTTAACCATCCTGTATGGGTACCGG
 TGGCCTTTCCTAGCAAGCTCTGTGCGATCTGGATTTACCTGGATGTGCTCTTTTCTACGGCATCCATCA
 TGCACCTCTGCGCCATCTCCCTGGACCGCTATGTCGCCATCCAGAACCCATTACCACAGCCGCTTCAA
 CTCGAGAACCAAAGCCTTCTGAAAATCATTGCCGTGTGGACCATATCTGTAGGTATATCCATGCCAATC
 CAGTCTTTGGACTACAGGATGATTCTGAAGTCTTTAAGGAGGGGAGCTGCCTGCTTGCCGATGACAAC
 TTGTTCTCATAGGCTCTTTGTGGCATTTCATCCCCCTAACCATCATGGTGATCACCTACTTCTCTGAC
 TATCAAGTCACTTCAGAAAAGCCACCTTGTGTGTGAGTGACCTCAGCACTCGAGCCAACTAGCCTCC
 TTCAGTTCCTCCCTCAGAGTCTCTGTGCATCAGAAAAGCTTCCAACGGTCCATCCACAGAGAGCCAG
 GCTCTACGCAGGCCGAAGGACGATGCAGTCCATCAGCAATGAGCAAAAGGGCTGCAAGGTGCTGGGCAT
 CGTGTCTTCTGTTTGTGTAATGTGGTGCCATTCTTCATACCAATATCATGGCCGTCATCTGCAAA
 GAATCTGCAATGAAAATGTCATCGGAGCCCTGCTCAATGTGTTGTCTGGATTGGTTATCTCTCCTCAG
 CTGTCAATCCACTGGTATATACGTTGTTCAATAAACTTATAGGTCCGCTTCTCAAGGTACACTCAGTG
 TCAGTACAAGGAAAACAGAAAGCCACTGCAGTTAATTTTGTGAACACTATACCAGCATTGGCCTACAAG
 TCTAGTACGCTCCAGGTGGGACAGAAAAAGAACTCACAGGAAGATGCTGAGCAGACAGTTGATGACTGCT
 CCATGGTTACTGGGAAAACACAGTCGGAAGAGAATTGTACAGACAATATTGAAACCGTGAATGAAAA
 GGTTAGCTGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208836 representing NM_017254
 Red=Cloning site Green=Tags(s)

MEILCEDNISLSSIPNSLMQLGDGPRLYHDFNSRDANTSEASNWTIDAENRTNLSCGYLPPTCLSLIH
 LQEKNSALLTTVVIIILTIAGNILVIMAVSLEKKLQONATNYFLMSLAIADMLLGLFVMPVSMILTILYGR
 WPLPSKLCAIWIYLDVLFSTASIMHLCAISLDRYVAIQNPPIHHSRFRNSRTKAFKIIAVWTISVGI SMP
 PVFGLQDDSKVFKEGSCLLADDNFVLIGSFVAFFIPLTIMVITYFLTIKSLQKEATLCVSDLSTRAKLAS
 FSFLPQSSLSSEKLFQRSIHREPGSYAGRRTMQSISNEQKACKVLGIVFFLFVVMWCPFFITNIMAVICK
 ESCNENVIGALLNVFVWIGYLSAVNPLVYTLFNKTYRSAFSRYIQCYKENRKPLQLILVNTIPALAYK
 SSQLQVQGKNSQEDAEQTVDDCSMVTLGKQQSEENCTDNIETVNEKVSCV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1799_e10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_017254

ORF Size: 1413 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_017254.1](#), [NP_058950.1](#)

RefSeq Size: 1566 bp

RefSeq ORF: 1416 bp

Locus ID: 29595

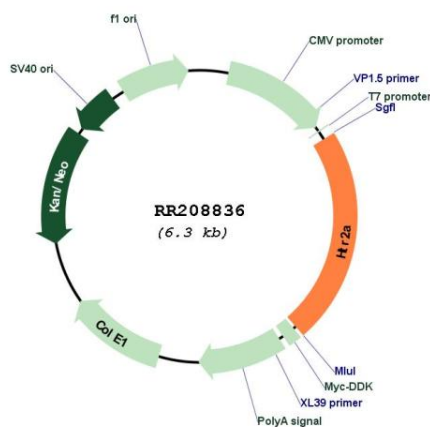
UniProt ID: [P14842](#)

Cytogenetics: 15q11

MW: 53.3 kDa

Gene Summary: a receptor for 5-hydroxytryptamine (serotonin); activates phospholipase C signaling pathway; involved in promoting cellular transformation [RGD, Feb 2006]

Product images:



Circular map for RR208836