

## Product datasheet for **RN204215**

### **Hrh3 (NM\_053506) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hrh3 (NM_053506) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hrh3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN204215 representing NM\_053506  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAGCGCGCGCCGCCGACGGGCTGATGAACCGCTCGGGCACTCTGGCCGGAGAGGGCGCGGCTGCAG  
CGGGGGCGCGGCTTCTCGGCTGCCTGGACCGCTGTCTGGCTGCGCTCATGGCGCTGCTCATCGTGGC  
CACAGTACTGGGCAACGCGCTGGTCATGCTCGCCTTCGTGGCGGATTTCGAGCCTCCGCACCCAGAACAAC  
TTCTTTCTGCTCAACCTCGCCATCTCCGACTTCTCGTGGGTGCCTTCTGCATCCCATTGTACGTACCT  
ATGTGCTGACCGCCGTTGGACCTTCGGCCGGGCTCTGCAAGCTGTGGCTGGTGGTAGACTACCTACT  
GTGTGCCTCCTCGGTCTTCAACATCGTACTCATCAGCTATGACCGATTCTGTGCTGCTGAGCTGCT  
TCCTACAGGGCCAGCAGGGGGACAGAGACGGGCGGTTTCGGAAGATGGCACTGGTGTGGGTGCTGGCCT  
TCCTGCTGTATGGCCTGCCATCCTGAGTTGGGAGTACCTGTCTGGTGGCAGTTCATCCCCGAGGGCCA  
CTGCTATGCTGAGTTCTTCAACTGGTACTTCTCATCACGGCCTCCACCCTCGAGTTCTTACGCCC  
TTCTCAGCGTTACCTTCTTCAACCTCAGCATCTACCTGAACATCCAGAGGCGCACCCGCTTCGGCTTG  
ATGGGGGCGGTGAGGCTGGCCAGAACCCACCAGATGCCAGCCCTCGCCACCTCCAGCTCCCCCCAG  
CTGCTGGGGTGTGTCGCAAAAGGGCATGGCGAGGCCATGCCGTTGCACAGGTATGGGGTGGGTGAGGCA  
GGCCCTGGTGTGAGGCTGGGGAGGCTGCCCTCGGGGTGGCAGTGGTGGAGGTGCTGCTGCCTCGCCCA  
CCTCCAGCTCTGGCAGCTCCTCAAGGGGCACTGAGAGGCCACGCTCACTCAAAGGGGCTCCAAGCCATC  
AGCATCTCAGCATCCCTGGAGAAGCGCATGAAGATGGTGTCCCAGAGCATCACCCAGCGCTTCCGGCTG  
TCGCGGGACAAGAAGGTGGCCAAGTCTGCTGGCCATCATCGTGGCAGTCTTTGGGCTCTGCTGGGCGCCG  
ACACGCTCCTAATGATCATCCGAGCTGCTTCCATGGCCGCTGCATCCCCGATTACTGGTACGAGACGTC  
CTTCTGGCTTCTGTGGCCAACCTCGGCCGTCAACCCCGTCTCTACCCACTGTGCCACTACAGCTTCCGC  
AGAGCCTTACCAAGCTCCTCTGCCCCAGAAGCTCAAGGTCCAGCCCCACGGCTCCCTGGAGCAGTGT  
GGAAGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1760\\_c05.zip](https://cdn.origene.com/chromatograms/ja1760_c05.zip)

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_053506

**Insert Size:** 1338 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_053506.1](#), [NP\\_445958.1](#)

RefSeq Size: 2792 bp

RefSeq ORF: 1338 bp

Locus ID: 85268

UniProt ID: [Q9QYN8](#)

Cytogenetics: 3q43

**Gene Summary:** This gene encodes a histamine H3 receptor that belongs to the superfamily of G-protein coupled receptors. This protein functions as a presynaptic autoreceptor on histamine neurons in the brain, and a presynaptic heteroreceptor in nonhistamine-containing neurons in both the central and peripheral nervous systems. It is deemed a great target for the development of therapeutics for numerous disorders, including obesity, epilepsy, and such cognitive diseases as attention deficit hyperactivity disorder and Alzheimer's disease. Several alternatively spliced transcript variants encoding different isoforms, with different brain expression patterns and signaling properties, have been described for this gene. [provided by RefSeq, Jul 2012]

Transcript Variant: This variant (1) represents the predominant transcript, and encodes isoform H3A (also known as H3L or H3(445)), which contains 7 transmembrane domains.