

Product datasheet for **RR204215**

Hrh3 (NM_053506) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR204215 representing NM_053506
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCGCGCGCCGCCGACGGGCTGATGAACCGCTCGGGCACTCTGGCCGGAGAGCGCGGGCTGCAG
 GCGGGGCGCGCGCTTCTCGGCTGCCTGGACCGCTGTCCTGGCTGCGCTCATGGCGCTGCATCGTGCC
 CACAGTACTGGGCAACGCGCTGGTTCATGCTCGCCTTCGTGGCGGATTGAGCCTCCGCACCCAGAACAAC
 TTCTTTCTGCTCAACCTCGCATCTCCGACTTCTCGTGGGTGCCTTCTGCATCCATTGTACGTACCCT
 ATGTGCTGACCGCCGTTGGACCTTCGGCCGGGCTCTGCAAGCTGTGGCTGGTGGTAGACTACCTACT
 GTGTGCCTCCTCGGTCTCAACATCGTACTCATCAGCTATGACCGATTCTGTCACTCGAGCTGTC
 TCCTACAGGGCCAGCAGGGGACAGAGACGGCCGTTCCGAAGATGGCACTGGTGTGGGTGCTGGCCT
 TCCTGTGTATGGCCCTGCCATCTGAGTTGGGAGTACCTGTCTGGTGGCAGTTCATCCCCGAGGGCCA
 CTGCTATGCTGAGTTCTTCAACTGGTACTTCTCATCACGGCTCCACCCTCGAGTTCCTCACGCC
 TTCTCAGCGTTACCTTCTCAACCTCAGCATCTACCTGAACATCCAGAGGGCGCACCCGCTTCGGCTTG
 ATGGGGCCGTGAGGCTGGCCAGAACCCACACAGATGCCAGCCCTCGCCACCTCCAGCTCCCCCAG
 CTGCTGGGGCTGCTGGCCAAAAGGGCATGGCGAGGCCATGCCGTTGCACAGGTATGGGTGGGTGAGGCA
 GGCCCTGGTGTGAGGCTGGGGAGGCTGCCCTCGGGGTGGCAGTGGTGGAGGTGCTGCTGCCTCGCCCA
 CCTCCAGCTCTGGCAGCTCCTCAAGGGGCACTGAGAGGCCACGCTCACTAAAAGGGGCTCAAGCCATC
 AGCATCTCAGCATCCCTGGAGAAGCGCATGAAGATGGTGTCCAGAGCATCACCCAGCGCTTCCGGCTG
 TCGCGGACAAGAAGGTGGCCAAGTCTGGCCATCATCGTGAAGCATCTTGGGCTCTGCTGGCGCCGT
 ACACGCTCCTAATGATCATCCGAGCTGCTTCCATGGCCGCTGCATCCCCGATTACTGGTACGAGACGTC
 CTTCTGGCTTCTGTGGCCAACCTCGCCGTCACCCCGTCTCTACCCACTGTGCCACTACAGCTTCCGC
 AGAGCCTTACCAAGCTCCTCTGCCCCAGAAGCTCAAGGTCCAGCCCCACGGCTCCCTGGAGCAGTGT
 GGAAG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

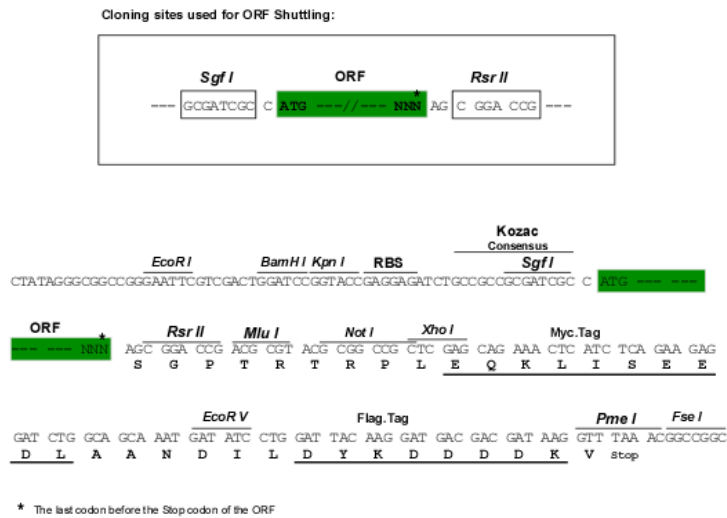
>RR204215 representing NM_053506
 Red=Cloning site Green=Tags(s)

MERAPPDGLMNASGTLAGEAAAAGGARGFSAAWTAVLAALMALLIVATVLGNALVMLAFVADSSLRTQNN
 FFLNLAISDFLVGAFCIPLYVPYVLTGRWTFGRGLCKLWLVVDYLLCASSVFNIVLISYDRFLSVTRAV
 SYRAQQGDTTRAVRKMALVWVLAFLLYGPAILSWEYLSGGSSIEGHCYAEFFYNWYFLITASTLEFFTP
 FLSVTFNLSIYLNQRRRLRLDGGREAGPEPPDAQPSPPPAPPSCWGCWPKGHGEAMPLHRYGVGEA
 GPGVEAGEAALGGSGGAAASPTSSSGSSSRGTERPRSLKRGSKPSASSASLEKRMKMVSQSITQRFRL
 SRDKKVAKSLAIIVSIFGLCWAPYLLMIIRAACHGRCIPDYWYETSFWLLWANSVNPVLYPLCHYSFR
 RAFTKLLCPQKLKVQPHGSLEQCWK

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_053506

ORF Size: 1335 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_053506.2](#), [NP_445958.1](#)

RefSeq Size: 2792 bp

RefSeq ORF: 1338 bp

Locus ID: 85268

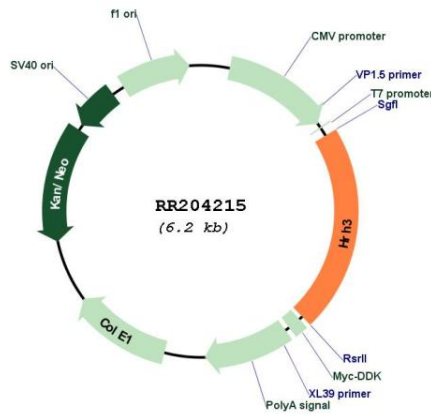
UniProt ID: [Q9QYN8](#)

Cytogenetics: 3q43

MW: 48.6 kDa

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]

Product images:



Circular map for RR204215