

Product datasheet for **RN216700**

Hrh3 (NM_001270568) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hrh3 (NM_001270568) Rat Untagged Clone
Tag: Tag Free
Symbol: Hrh3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN216700 representing NM_001270568
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGAGCGCGCGCCGCCGCGGGCTGATGAACGCGTCGGCACTCTGGCCGGAGAGCGCGGGCTGCAG
CGGGGGCGCGGGCTTCTCGGCTGCCTGACCGCTGTCCTGGCTGCGCTCATGGCGCTGCTCATCGTGGC
CACAGTACTGGCAACGCGCTGGTCATGCTCGCCTTCGTGGCGATTGAGCCTCCGCACCCAGAACAAAC
TTCTTTCTGCTCAACCTCGCCATCTCCGACTTCCCTCGTGGGTGCCTTCTGCATCCATTGTACGTACCCT
ATGTGCTGACCGCCGTTGGACCTTCGGCCGGGCTCTGCAAGCTGTGGCTGGTGGTAGACTACCTACT
GTGTGCCTCCTCGGTCTTCAACATCGTACTCATCAGCTATGACCGATTCTGTGAGTCACTCGAGCTGTC
TCCTACAGGGCCAGCAGGGGACACGAGACGGCCGTTCCGAAAGATGGCACTGGTGTGGGTGCTGGCCT
TCCTGCTGTATGGCCTGCCATCCTGAGTTGGGAGTACCTGTCTGGTGGCAGTTCATCCCCGAGGGCCA
CTGCTATGCTGAGTTCTTCAACTGGTACTTCTCATCACGGCCTCCACCCTCGAGTTCCTCACGCC
TTCTCAGCGTTACCTTCTTCAACCTCAGCATCTACCTGAACATCCAGAGGCGCACCCGCTTCGGCTTG
ATGGGGCCGTGAGGCTGGCCAGAACCCACCAGATGCCAGCCCTCGCCACCTCCAGCTCCCCCAG
CTGCTGGGGCTGCTGGCCAAAAGGGCATGGCGAGGCCATGCCGTTGCACAGGGGCTCCAAGCCATCAGCA
TCTTCAGCATCCCTGGAGAAGCGCATGAAGATGGTGTCCAGAGCATACCCAGCGCTTCCGGCTGTCCG
GGGACAAGAAGGTGGCCAAGTCGCTGGCCATCATCGTGAGCATCTTTGGGCTCTGCTGGGCGCCGTACAC
GCTCCTAATGATCATCCGAGTCTTGGCCATGGCCGCTGCATCCCCGATTACTGTGTCGAGCGCCTCGGG
AACTTGAAGCTTCTGCTCCTTCACTCTGGATGTTTTAGGAAGATGGAGGAGAAGAAAACAGCTCT
GTGAATTGATGTTCTTGGATGTTTAAATCAAGAGAGACAAAATTGCCGAGGAGCTCGGGGCTGGATTGG
CAGGTGTGGGCTCCACGCCCTCCTCCCTCAGTGTGTCAGCTTCCGGCTGAGCCGCGCCAGCTGCTTCTG
CCTGCCCGCCCCAGGCTTGGAGCATGGCCCTGCCCTGCTTGGCCCGTCTGTACAATCAGAATTTGGG
GGTGGGTGGTTATGGGG**TAG**

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001270568
Insert Size:	1350 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001270568.1</u> , <u>NP_001257497.1</u>
RefSeq Size:	1908 bp
RefSeq ORF:	1350 bp
Locus ID:	85268
UniProt ID:	<u>Q9QYN8</u>
Cytogenetics:	3q43
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (6) is alternatively spliced at the 3' end compared to variant 1, which results in a frame-shift, and a longer isoform (H3F) containing 6 transmembrane domains and a distinct C-terminus compared to isoform H3A.</p>