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Product datasheet for RR216700

Hrh3 (NM_001270568) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hrh3 (NM_001270568) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hrh3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR216700 representing NM_001270568 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGCGCGCCGCCCGACGGGCTGATGAACGCGTCGGGCACTCTGGCCGGAGAGGCGGCGGCTGCAG
GCGGGGCGCGCGGCTTCTCGGCTGCCTGGACCGCTGTCCTGGCTGCGCTCATGGCGCTGCTCATCGTGGC
CACAGTACTGGGCAACGCGCTGGTCATGCTCGCCTTCGTGGCGGATTCGAGCCTCCGCACCCAGAACAAC
TTCTTTCTGCTCAACCTCGCCATCTCCGACTTCCTCGTGGGTGCCTTCTGCATCCCATTGTACGTACCCT
ATGTGCTGACCGGCCGTTGGACCTTCGGCCGGGGCCTCTGCAAGCTGTGGCTGGTGGTAGACTACCTACT
GTGTGCCTCCTCGGTCTTCAACATCGTACTCATCAGCTATGACCGATTCCTGTCAGTCACTCGAGCTGTC
TCCTACAGGGCCCAGCAGGGGGACACGAGACGGGCCGTTCGGAAGATGGCACTGGTGTGGGTGCTGGCCT
TCCTGCTGTATGGGCCTGCCATCCTGAGTTGGGAGTACCTGTCTGGTGGCAGTTCCATCCCCGAGGGCCA
CTGCTATGCTGAGTTCTTCTACAACTGGTACTTTCTCATCACGGCCTCCACCCTCGAGTTCTTCACGCCC
TTCCTCAGCGTTACCTTCTTCAACCTCAGCATCTACCTGAACATCCAGAGGCGCACCCGCCTTCGGCTTG
ATGGGGGCCGTGAGGCTGGCCCAGAACCCCCACCAGATGCCCAGCCCTCGCCACCTCCAGCTCCCCCCAG
CTGCTGGGGCTGCTGGCCAAAAGGGCATGGCGAGGCCATGCCGTTGCACAGGGGCTCCAAGCCATCAGCA
TCTTCAGCATCCCTGGAGAAGCGCATGAAGATGGTGTCCCAGAGCATCACCCAGCGCTTCCGGCTGTCGC
GGGACAAGAAGGTGGCCAAGTCGCTGGCCATCATCGTGAGCATCTTTGGGCTCTGCTGGGCGCCGTACAC
GCTCCTAATGATCATCCGAGCTGCTTGCCATGGCCGCTGCATCCCCGATTACTGTGTCGAGCGCCTCGGG
AAACTTGAAGCTTCTCTGCTCCTTCCACTCTGGATGTTTTCAGGAAGATGGAGGAGAAGAAAACACGTCT
GTGAACTTGATGTTCCTTGGATGTTTAATCAAGAGAGACAAAATTGCCGAGGAGCTCGGGGCTGGATTGG
CAGGTGTGGGCTCCCACGCCCTCCTCCCTCAGTGCTGCAGCTTCCGGCTGAGCCGCGCCAGCTGCTTCTG
CCTGCCCCGCCCCCAGGCTTGGGACGATGGCCCTGCCCTGCTTGCCCCGTCTGTACAATCAGAATTTGGG
GGTGGGTGGTTATGGGG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

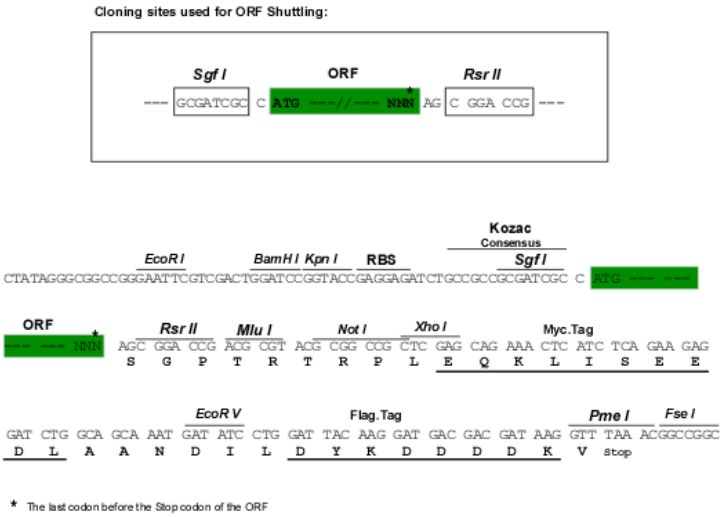
>RR216700 representing NM_001270568
Red=Cloning site Green=Tags(s)

MERAPPDGLMNASGTLAGEAAAAGGARGFSAAWTAVLAALMALLIVATVLGNALVMLAFVADSSLRTQNN
FFLLNLAISDFLVGAFCIPLYVPYVLTGRWTFGRGLCKLWLVVDYLLCASSVFNIVLISYDRFLSVTRAV
SYRAQQGDTRRAVRKMALVWVLAFLLYGPAILSWEYLSGGSSIPEGHCYAEFFYNWYFLITASTLEFFTP
FLSVTFFNLSIYLNIQRRTRLRLDGGREAGPEPPPDAQPSPPPAPPSCWGCWPKGHGEAMPLHRGSKPSA
SSASLEKRMKMVSQSITQRFRLSRDKKVAKSLAIIVSIFGLCWAPYTLLMIIRAACHGRCIPDYCVERLG
KLEASLLLPLWMFSGRWRRRKHVCELDVPWMFNQERQNCRGARGWIGRCGLPRPPPSVLQLPAEPRQLLL
PAPPPGLGRWPCPACPVCTIRIWGWVVMG

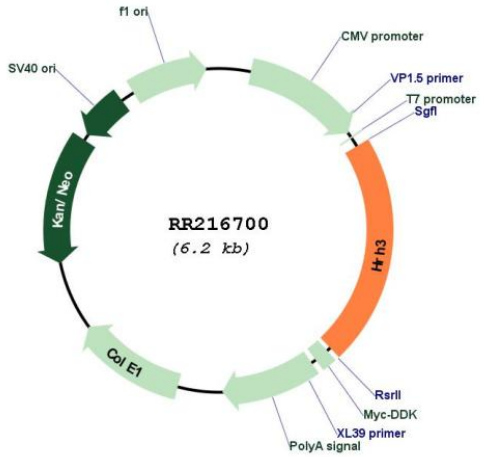
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001270568
ORF Size:	1347 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_001270568.1, NP_001257497.1
RefSeq Size:	1908 bp
RefSeq ORF:	1350 bp
Locus ID:	85268
UniProt ID:	Q9QYN8
Cytogenetics:	3q43
MW:	49.8 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]