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Product datasheet for RC218388

HRH3 (NM_007232) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HRH3 (NM_007232) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HRH3
Synonyms:	GPCR97; HH3R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC218388 representing NM_007232
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGCGCGCCGCCCGACGGGCCGCTGAACGCTTCGGGGGCGCTGGCGGGCGAGGCGGCGGCGGCGG
GCGGGGCGCGCGGCTTCTCGGCAGCCTGGACCGCGGTGCTGGCCGCGCTCATGGCGCTGCTCATCGTGGC
CACGGTGCTGGGCAACGCGCTGGTCATGCTCGCCTTCGTGGCCGACTCGAGCCTCCGCACCCAGAACAAC
TTCTTCCTGCTCAACCTCGCCATCTCCGACTTCCTCGTCGGCGCCTTCTGCATCCCACTGTATGTACCCT
ACGTGCTGACAGGCCGCTGGACCTTCGGCCGGGGCCTCTGCAAGCTGTGGCTGGTAGTGGACTACCTGCT
GTGCACCTCCTCTGCCTTCAACATCGTGCTCATCAGCTACGACCGCTTCCTGTCGGTCACCCGAGCGGTC
TCATACCGGGCCCAGCAGGGTGACACGCGGCGGGCAGTGCGGAAGATGCTGCTGGTGTGGGTGCTGGCCT
TCCTGCTGTACGGACCAGCCATCCTGAGCTGGGAGTACCTGTCCGGGGGCAGCTCCATCCCCGAGGGCCA
CTGCTATGCCGAGTTCTTCTACAACTGGTACTTCCTCATCACGGCTTCCACCCTGGAGTTCTTTACGCCC
TTCCTCAGCGTCACCTTCTTTAACCTCAGCATCTACCTGAACATCCAGAGGCGCACCCGCCTCCGGCTGG
ATGGGGCTCGAGAGGCAGCCGGCCCCGAGCCCCCTCCCGAGGCCCAGCCCTCACCACCCCCACCGCCTGG
CTGCTGGGGCTGCTGGCAGAAGGGGCACGGGGAGGCCATGCCGCTGCACAGGTATGGGGTGGGTGAGGCG
GCCGTAGGCGCTGAGGCCGGGGAGGCGACCCTCGGGGGTGGCGGTGGGGGCGGCTCCGTGGCTTCACCCA
CCTCCAGCTCCGGCAGCTCCTCGAGGGGCACTGAGAGGCCGCGCTCACTCAAGAGGGGCTCCAAGCCGTC
GGCGTCCTCGGCCTCACTGGAGAAGCGCATGAAGATGGTGTCCCAGAGCTTCACCCAGCGCTTTCGGCTG
TCTCGGGACAGGAAAGTGGCCAAGTCGCTGGCCGTCATCGTGAGCATCTTTGGGCTCTGCTGGGCCCCAT
ACACGCTGCTGATGATCATCCGGGCCGCCTGCCATGGCCACTGCGTCCCTGACTACTGGTACGAAACCTC
CTTCTGGCTCCTGTGGGCCAACTCGGCTGTCAACCCTGTCCTCTACCCTCTGTGCCACCACAGCTTCCGC
CGGGCCTTCACCAAGCTGCTCTGCCCCCAGAAGCTCAAAATCCAGCCCCACAGCTCCCTGGAGCACTGCT
GGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218388 representing NM_007232
Red=Cloning site Green=Tags(s)

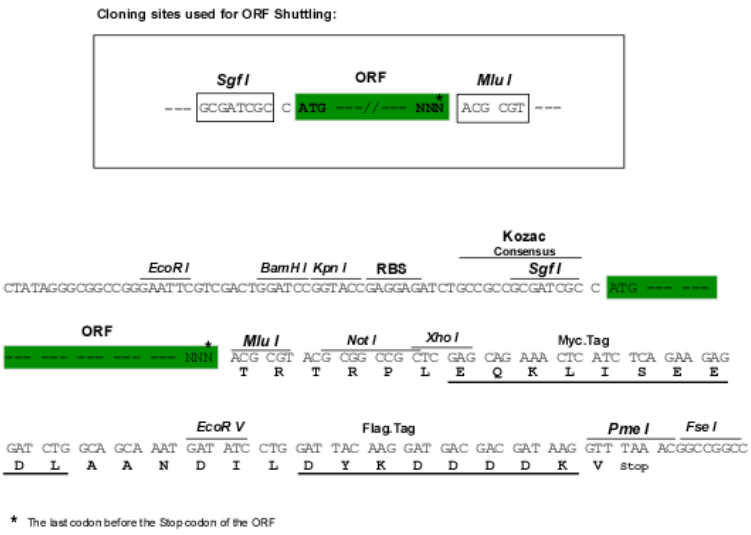
MERAPPDGPLNASGALAGEAAAAGGARGFSAAWTAVLAALMALLIVATVLGNALVMLAFVADSSLRTQNN
FFLLNLAISDFLVGAFCIPLYVPYVLTGRWTFGRGLCKLWLVVDYLLCTSSAFNIVLISYDRFLSVTRAV
SYRAQQGDTRRAVRKMLLVWVLAFLLYGPAILSWEYLSGGSSIPEGHCYAEFFYNWYFLITASTLEFFTP
FLSVTFFNLSIYLNIQRRTRLRLDGAREAAGPEPPPEAQPSPPPPPGCWGCWQKGHGEAMPLHRYGVGEA
AVGAEAGEATLGGGGGGGSVASPTSSSGSSSRGTERPRSLKRGSKPSASSASLEKRMKMVSQSFTQRFRL
SRDRKVAKSLAVIVSIFGLCWAPYTLLMIIRAACHGHCVPDYWYETSFWLLWANSAVNPVLYPLCHHSFR
RAFTKLLCPQKLKIQPHSSLEHCWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3512_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007232

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_007232.3

RefSeq Size: 2699 bp

RefSeq ORF: 1338 bp

Locus ID: 11255

UniProt ID: Q9Y5N1

Cytogenetics: 20q13.33

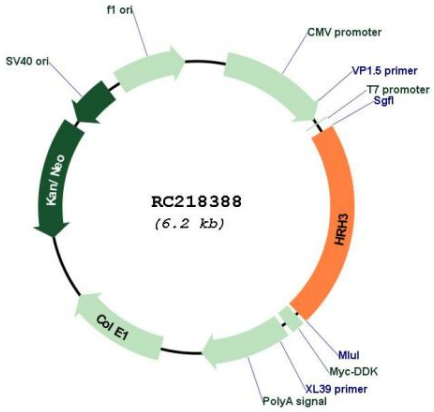
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 48.5 kDa

Gene Summary: Histamine is a ubiquitous messenger molecule released from mast cells, enterochromaffin-like cells, and neurons. Its various actions are mediated by histamine receptors H1, H2, H3 and H4. This gene encodes one of the histamine receptors (H3) which belongs to the family 1 of G protein-coupled receptors. It is an integral membrane protein and can regulate neurotransmitter release. This receptor can also increase voltage-dependent calcium current in smooth muscles and innervates the blood vessels and the heart in cardiovascular system. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218388