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Product datasheet for RC225618

HRH2 (NM_001131055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HRH2 (NM_001131055) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HRH2
Synonyms:	H2R; HH2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC225618 representing NM_001131055
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCACCCAATGGCACAGCCTCTTCCTTTTGCCTGGACTCTACCGCATGCAAGATCACCATCACCGTGG
TCCTTGCGGTCCTCATCCTCATCACCGTTGCTGGCAATGTGGTCGTCTGTCTGGCCGTGGGCTTGAACCG
CCGGCTCCGCAACCTGACCAATTGTTTCATCGTGTCCTTGGCTATCACTGACCTGCTCCTCGGCCTCCTG
GTGCTGCCCTTCTCTGCCATCTACCAGCTGTCCTGCAAGTGGAGCTTTGGCAAGGTCTTCTGCAATATCT
ACACCAGCCTGGATGTGATGCTCTGCACAGCCTCCATTCTTAACCTCTTCATGATCAGCCTCGACCGGTA
CTGCGCTGTCATGGACCCACTGCGGTACCCTGTGCTGGTCACCCCAGTTCGGGTCGCCATCTCTCTGGTC
TTAATTTGGGTCATCTCCATTACCCTGTCCTTTCTGTCTATCCACCTGGGGTGGAACAGCAGGAACGAGA
CCAGCAAGGGCAATCATACCACCTCTAAGTGCAAAGTCCAGGTCAATGAAGTGTACGGGCTGGTGGATGG
GCTGGTCACCTTCTACCTCCCGCTACTGATCATGTGCATCACCTACTACCGCATCTTCAAGGTCGCCCGG
GATCAGGCCAAGAGGATCAATCACATTAGCTCCTGGAAGGCAGCCACCATCAGGGAGCACAAAGCCACAG
TGACACTGGCCGCCGTCATGGGGGCCTTCATCATCTGCTGGTTTCCCTACTTCACCGCGTTTGTGTACCG
TGGGCTGAGAGGGGATGATGCCATCAATGAGGTGTTAGAAGCCATCGTTCTGTGGCTGGGCTATGCCAAC
TCAGCCCTGAACCCCATCCTGTATGCTGCGCTGAACAGAGACTTCCGCACCGGGTACCAACAGCTCTTCT
GCTGCAGGCTGGCCAACCGCAACTCCCACAAAACTTCTCTGAGGTCCAACGCCTCTCAGCTGTCCAGGAC
CCAAAGCCGAGAACCCAGGCAACAGGAAGAGAAACCCCTGAAGCTCCAGGTGTGGAGTGGGACAGAAGTC
ACGGCCCCCCAGGGAGCCACAGACAGACCATGGCTTTGCCTTCCAGAATGCTGGTCTGTGGAACTGACCC
ATTCATTCATTCATTTGTTCATTCATTCATTTGCAAACATTCATCCAATTCCCACCACATGCCAGGAATT
A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC225618 representing NM_001131055
Red=Cloning site Green=Tags(s)

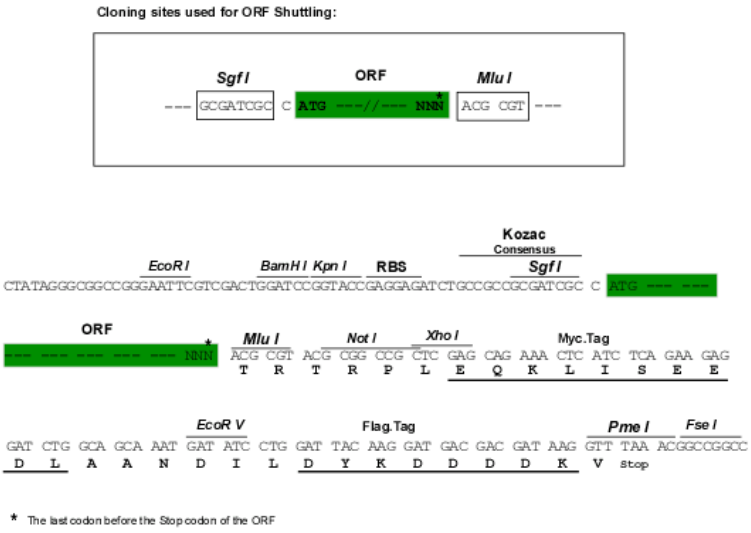
MAPNGTASSFCLDSTACKITITVVLAVLILITVAGNVVVCLAVGLNRRLRNLTNCFIVSLAITDLLLGLL
VLPFSAIYQLSCKWSFGKVFCNIYTSLDVMLCTASILNLFMISLDRYCAVMDPLRYPVLVTPVRVAISLV
LIWVISITLSFLSIHLGWNSRNETSKGNHTTSKCKVQVNEVYGLVDGLVTFYLPLLIMCITYYRIFKVAR
DQAKRINHISSWKAATIREHKATVTLAAVMGAFIICWFPYFTAFVYRGLRGDDAINEVLEAIVLWLGYAN
SALNPILYAALNRDFRTGYQQLFCCRLANRNSHKTSLRSNASQLSRTQSREPRQQEEKPLKLQVWSGTEV
TAPQGATDRPWLCLPECWSVELTHSFIHLFIHSFANIHPIPTTCQEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3554_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001131055

ORF Size: 1191 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).

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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_001131055.2

RefSeq ORF: 1194 bp

Locus ID: 3274

UniProt ID: P25021

Cytogenetics: 5q35.2

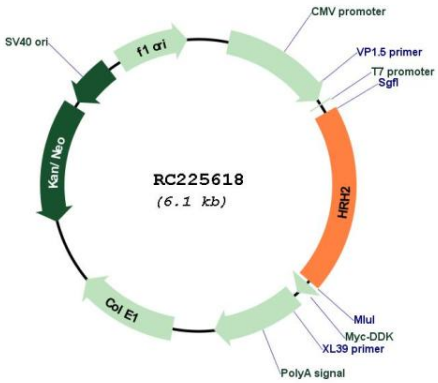
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

MW: 44.4 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. Histamine receptor H2 belongs to the family 1 of G protein-coupled receptors. It is an integral membrane protein and stimulates gastric acid secretion. It also regulates gastrointestinal motility and intestinal secretion and is thought to be involved in regulating cell growth and differentiation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RC225618

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