

Product datasheet for **MR226450**

Hrh1 (NM_008285) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hrh1 (NM_008285) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hrh1
Synonyms:	Bphs; H1R; HH1R; Hir
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226450 representing NM_008285
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCTTCCCAACACCTCTTCTGCCTCCGAAGACAAGATGTGTGAGGGGAACAGGACAGCCATGGCCA
 GCCCTCAGCTGCTGCCCTGGTGGTGGTTCTAAGTAGTATCTCCCTGGTACAGTGGGCCTCAACCTGCT
 GGTGCTGTATGCAGTGGCAGTGAAGCAAGCTACACACCGTGGGCAACCTGTACATTGTGAGCCTGTGC
 GTAGCAGACCTGATTGTAGGGGAGTCTCATGCCATGAACATCCTCTATCTTATCATGACCAAGTGGT
 CCCTGGGCGCCCTCTGCCTCTTTGGCTCTCTATGGATTATGTGGCCAGCAGGCATCCATCTTTAG
 TGTCTTCATCCTGTATTGATCGCTACCGCTCTGTCCAGCAACCCCTCCGGTACCTGAGGTATCGAACC
 AAGACCGTGCTCAGCTACCATCCTGGGGCCTGGTTTCTCCTTCTGTGGTTATACTATACTTG
 GCTGGCATCACTTCACGCCCTGGCCCCAGAGCTTCGGGAAGATAAGTGTGAGACAGATTTCTACAATGT
 CACTTGGTTCAAGATCATGACCGCCATCATCAACTTCTACCTCCCACCTTGGCTCATGCTGTGGTCTAT
 GTGAAGATCTACAAGGCTGTGCGGCGACTGTGACAGCCGCCAGCTCACCAACGGGTCCCTCCCTACCT
 TTTTAGAAATCAAGCTGAGGTCCGAGGATGCCAAAGAGGGTGCCAAAGAACTGGGAAAGAGTCTCCCTG
 GGGGTCCAGAAGAGGCCGTCAAGAGACCTACTGGAGGTCTGGATCAGAAGTCAACATCTGAAGACCCC
 AAGGTGACCTCTCCGACTGTCTTCAGCCAAGAGGGGAAAGGGAAACAGTACACGCCCTGTTCCGCTC
 TTGACGTCATGCAGACACAGCCTGTGCCTGAGGGAGATGCCAGGGGCTCAAAGGCCAATGACCAGACCTT
 GAGCCAGCCAAAATGGATGAGCAGAGCCTGAGTACTTCCCGCGGATCAGTGAGACATCAGAGGACCAG
 ACCTTGGTGGATCGACAGTCTTCTCCCGACCACAGACTCAGACACCAGCATAGAGCCAGGGCTGGCA
 AAGTCAAAGCGAGAAGCAGGTCTAACAGTGGCTGGACTACATCAAAGTCACTGGAAGAGGCTTCGCTC
 ACATTCAGACAGTATGTGTCGGGTGCACTTGAACCGAGAGCGGAAGGCAGCCAAGCAGTTGGGTTGT
 ATCATGGCAGCATTATTCTCTGCTGGATTCCCTATTTTCTTCTTTCATGGTCATTGCCTTCTGCAACA
 GCTGCTGCAGCGAACCTGTGCACATGTTACCATTGGCTGGGCTACATCAACTCCACGCTGAACCCCTC
 CATCTACCGCTGTGCAACGAGAAGTCAAGAAGACATTCAAAAAATTCTGCACATTCTGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226450 representing NM_008285
 Red=Cloning site Green=Tags(s)

MSLPNTSSASEDKMCEGNRTAMASPLPLVVLSSISLVTVGLNLLVL YAVRSERKLHTVGNLYIVLSL
 VADLIVGAVVMPMNILYLIMTKWSLGRPLCLFWLSMDYVASTASIFSVFILCIDRYRSVQQPLRYLRYRT
 KTRASATILGAWFLSFLWVPIILGWHHFTPLAPELREDKCEDFYNVTFWKIMTAIINFYLPDLLMLWFY
 VKIYKAVRRHCQHRQLTNGSLPTFLEIKLRSEDAKEGAKKPGKESPWGVQKRPSRPTGGLDQKSTSEDP
 KVTSPVFSQEGERETVTRPCFRLDVMQTQPVPEGDARGSKANDQTL SQPKMDEQSLSTCRRISSETSDQ
 TLVDRQSF SRTTSDTSIEPGLGKVKARSRSNSGLDYIKVTWKRLRSHSRQYVSLHLNRERKAAKQLGC
 IMAAFILCWIPYFIFFMVIAFCNSCCSEPVHMFIIWLGYNSTLNPLIYPLCNENFKTKFKILHIRS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

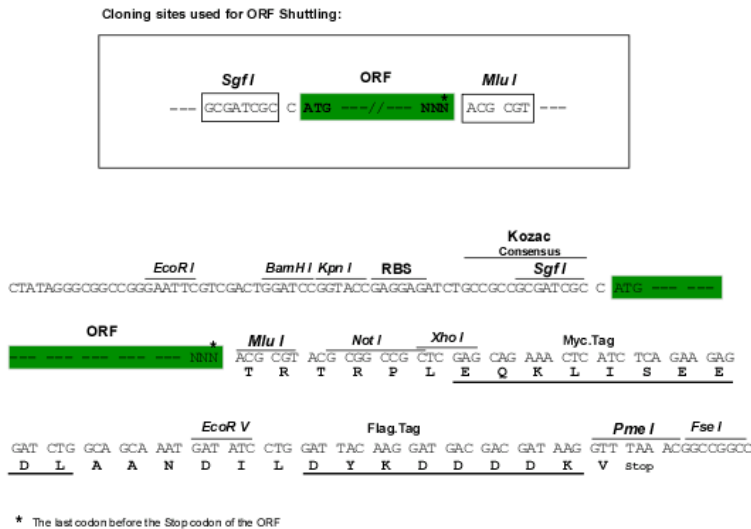
Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_f10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_008285

ORF Size: 1464 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

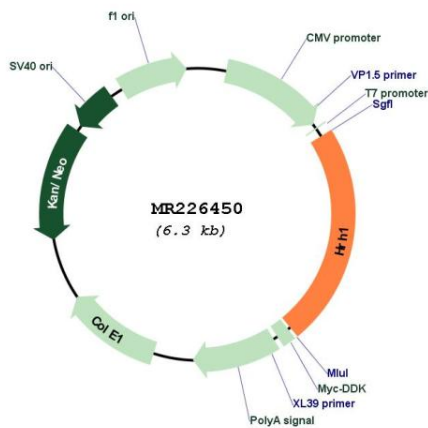
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008285.3, NP_032311.2](#)
RefSeq Size: 3782 bp
RefSeq ORF: 1467 bp
Locus ID: 15465
UniProt ID: [P70174](#)
Cytogenetics: 6 53.05 cM
MW: 56.1 kDa

Gene Summary: In peripheral tissues, the H1 subclass of histamine receptors mediates the contraction of smooth muscles, increase in capillary permeability due to contraction of terminal venules, and catecholamine release from adrenal medulla, as well as mediating neurotransmission in the central nervous system. Involved in circadian rhythm of locomotor activity and exploratory behavior. Also involved in responsiveness to pertussis toxin through its control of susceptibility to histamine hypersensitivity and enhancement of antigen-specific delayed-type hypersensitivity responses.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226450