

Product datasheet for **MR230177**

Hrh1 (NM_001252643) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hrh1 (NM_001252643) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hrh1
Synonyms:	Bphs; H1R; HH1R; Hir
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230177 representing NM_001252643
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCTTCCCAACACCTCTTCTGCCTCCGAAGACAAGATGTGTGAGGGGAACAGGACAGCCATGGCCA
 GCCCTCAGCTGCTGCCCTGGTGGTGGTTCTAAGTAGTATCTCCCTGGTACAGTGGGCCTCAACCTGCT
 GGTGCTGTATGCAGTGCAGTGCAGCAAGCTACACACCGTGGGCAACCTGTACATTGTGAGCCTGTCG
 GTAGCAGACCTGATTGTAGGGGAGTGCATGCCCATGAACATCCTCTATCTTATCATGACCAAGTGGT
 CCCTGGGCGCCCTCTGCCTCTTTGGCTCTATGGATTATGTGGCCAGCACGGCATCCATCTTTAG
 TGTCTTCATCCTGTATTGATCGCTACCCTGTCCAGCAACCCCTCCGGTACCTGAGGTATCGAACC
 AAGACCGTGCTCAGCTACCATCCTGGGGCCTGGTTTCTCCTTCTGTGGTTATACTATACTTG
 GCTGGCATCACTTCACGCCCTGGCCCCAGAGCTTCGGGAAGATAAGTGTGAGACAGATTCTACAATGT
 CACTTGGTTCAAGATCATGACCGCCATCATCAACTTCTACCTCCCCTTTGCTCATGCTGTGGTCTAT
 GTGAAGATCTACAAGGCTGTGCGGCGACTGTCAGCACCGCCAGCTCACCAACGGGTCCCTCCCTACCT
 TTTTAGAAATCAAGCTGAGGTCCGAGGATGCCAAAGAGGGTGCCAAAGAACTGGGAAAGAGTCTCCCTG
 GGGGTCCAGAAGAGGCCGTCAAGAGACCTACTGGAGGTCTGGATCAGAAGTCAACATCTGAAGACCC
 AAGGTGACCTCTCCGACTGTCTTCAGCCAAGAGGGGAAAGGAAACAGTCACACGCCCTGTTCCGTC
 TTGACGTCATGCAGACACAGCCTGTGCCTGAGGGAGATGCCAGGGGCTCAAAGGCCAATGACCAGACCT
 GAGCCAGCCAAAATGGATGAGCAGAGCCTGAGTACTTCCCGCGGATCAGTGAGACATCAGAGGACCAG
 ACCTTGGTGGATCGACAGTCTTCTCCCGACCACAGACTCAGACACCAGCATAGAGCCAGGGCTGGCA
 AAGTCAAAGCGAGAAGCAGGTCTAACAGTGGCTGGACTACATCAAAGTCACTGGAAGAGGCTCCGCTC
 ACATCCAGACAGTATGTGTCGGGTGCACCTGAACCGAGAGCGGAAGGCAGCCAAGCAGTTGGGTGT
 ATCATGGCAGCATTATTCTCTGCTGGATTCCCTATTTTCTTCTTTCATGGTCATTGCCTTCTGCAACA
 GCTGCTGCAGCAACCTGTGCACATGTTACCATTGGCTGGGCTACATCAACTCCACGCTGAACCCCT
 CATCTACCGCTGTGCAACGAGAAGTCAAGAAGACATTCAAAAAATTCTGCACATTGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230177 representing NM_001252643
 Red=Cloning site Green=Tags(s)

MSLPNTSSASEDKMCEGNRTAMASPOLLLPLVVVLSISLVTVGLNLLVLYAVRSEKRLHTVGNLYIVSL
 VADLIVGAVVMPMNILYLIMTKWSLGRPLCLFWLSMDYVASTASIFSVFILCIDRYRSVQQPLRYLRRT
 KTRASATILGAWFLSFLWVPIILGWHHFTPLAPELREDKCETDFYNVTWFKIMTAIINFYLPDLLMLWFY
 VKIYKAVRRHCQHRQLTNGSLPTFLEIKLRSEDAKEGAKKPKGKESPWGVQKRPSPDPTGGLDQKSTSEDP
 KVTSPVFSQEGERETVTRPCFRLDVMQTQPVPEGDARGSKANDQTLSPKMQEQLSTCRRRISETSEDQ
 TLVDRQSFRTTSDSTSIEPGLGKVKARSRSNSGLDYIKVTKRLRSHSRQYVSGLHLNRERKAAKQLGC
 IMAAFILCWIPYFIFFMVIAFCNSCCSEPVHMFIIWLYINSTLNPLIYPLCNENFKTKFKILHIRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

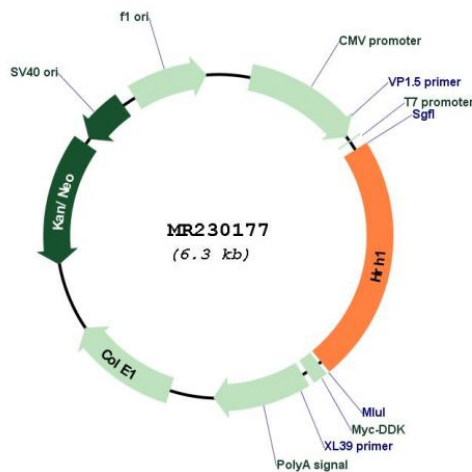
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252643

ORF Size: 1464 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_001252643.2](#), [NP_001239572.1](#)

RefSeq Size: 3868 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]