

Product datasheet for SC119662

HRH1 (NM_000861) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HRH1 (NM_000861) Human Untagged Clone
Tag:	Tag Free
Symbol:	HRH1
Synonyms:	H1-R; H1R; HH1R; hisH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000861, the custom clone sequence may differ by one or more nucleotides

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ATGAGCCTCCCAATTCCTCCTGCCTCTTAGAAGACAAGATGTGTGAGGGCAACAAGACCACTATGGCCA
GCCCCAGCTGATGCCCTGGTGGTGGTCTGAGCACTATCTGCTTGGTACAGTAGGGCTCAACCTGCT
GGTGTGTATGCCGTACGGAGTGAGCGGAAGCTCCACACTGTGGGGAACCTGTACATCGTCAGCCTCTCG
GTGGCGGACTTGATCGTGGGTGCCGTGTCATGCCTATGAACATCCTCTACCTGCTCATGTCCAAGTGGT
CACTGGGCCGCTCCTCTGCCTCTTTGGCTTTCCATGGACTATGTGGCCAGCACAGCGTCCATTTTCAG
TGTCTTCATCCTGTGCATTGATCGTACCGCTCTGTCCAGCAGCCCTCAGGTACCTTAAGTATCGTACC
AAGACCCGAGCCTCGGCCACCATTCTGGGGCCTGGTTTTCTCTTTTTCTGTGGGTATTCCCATCTAG
GCTGGAATCACTTCATGCAGCAGACCTCGGTGCGCCGAGAGGACAAGTGTGAGACAGACTTCTATGATGT
CACCTGGTTCAAGGTCATGACTGCCATCATCAACTTCTACCTGCCACCTTGCTCATGCTCTGGTCTAT
GCCAAGATCTACAAGGCCGTACGACAACACTGCCAGCACCGGGAGCTCATCAATAGGTCCCTCCCTTCT
TCTCAGAAATTAAGCTGAGGCCAGAGAACCCCAAGGGGATGCCAAGAAACCAGGGAAGGAGTCTCCCTG
GGAGGTTCTGAAAAGGAAGCCAAAAGATGCTGGTGGTGGATCTGTCTTGAAGTCACCATCCCAAACCC
AAGGAGATGAAATCCCGATTGTCTTCAGCCAAGAGGATGATAGAGAAGTAGACAACTCTACTGCTTTC
CACTTGATATTGTGCACATGCAGGCTGCGGCAGAGGGGAGTAGCAGGGACTATGTAGCCGTCAACCGGAG
CCATGGCCAGCTCAAGACAGATGAGCAGGCTGAACACACATGGGGCCAGCGAGATATCAGAGGATCAG
ATGTTAGGTGATAGCCAATCCTTCTCTCGAACGGACTCAGATACCACCACAGAGACAGCACCAGGCAAAG
GCAAATTGAGGAGTGGGTCTAACACAGGCTGGATTACATCAAGTTTACTTGAAGAGGCTCCGCTCGCA
TTCAAGACAGTATGTATCTGGTTCACATGAACCGCAAAGGAAGGCCGCAACAGTTGGGTTTTATC
ATGGCAGCCTTCATCCTCTGCTGGATCCCTATTTTCATCTTTCATGGTCATTGCCTTCTGCAAGAACT
GTTGCAATGAACATTTGCACATGTTACCATCTGGCTGGGCTACATCAACTCCCACTGAACCCCTCAT
CTACCCCTTGCAATGAGAATCAAGAAGACATTCAAGAGAATTCTGCATATTCGCTCCTAA

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000861 unedited</p> <pre> NGTGTTCAAATTTTGAATACGACTCACTATAGGGCGGCCGCGCGGNATGAGCCATAAC TGGCGGCTGCTCTTGCGCCAATGAGCCTCCCAATTCCTCCTGCCTCTTAGAAGACAAGA TGTGTGAGGGCAACAAGACCACTATGGCCAGCCCCAGCTGATGCCCTGGTGGTGGTCC TGAGCACTATCTGCTTGGTCACAGTAGGGCTCAACCTGCTGGTGTGTATGCCGTACGGA GTGAGCGGAAGCTCCACACTGTGGGAACCTGTACATCGTCAGCCTCTCGGTGGCGGAT TGATCGTGGGTGCCGTCGTCATGCCTATGAACATCCTCTACCTGCTCATGTCCAAGTGGT CACTGGGCGTCCCTCTCTGCCTCTTTTGGCTTTCATGGACTATGTGCCAGCACAGCGT CCATTTTCAGTGTCTTCATCCTGTGCATTGATCGCTACCGCTCTGTCCAGCAGCCCTCA GGTACCTTAAGTATCGTACCAAGACCCGAGCCTCGGCCACCATTCTGGGGCCTGGTTTC TCTCTTTTCTGTGGTTATTCCATTCTAGGCTGGAATCACTTCATGCAGCAGACCTCGG TGCGCCGAGAGGACAAGTGTGAGACAGACTTCTATGATGCACCTGGTTCAAGGTATGA CTGCCATCATCAACTTCTACCTGCCACCTTGCTCATGCTCTGGTCTATGCCAAGATCT ACAAGGCCGTACGACAACACTGCCAGCACCGGGAGCTCATCAATAGGTCCCTCCCTTTCC TTCTCAGAATTAAGCTGAGGCCAGAGAACCCCAAGGGGGATGCCAAGAAACCAGGNAAGG AGTCTCCCTGGGAGGTTCTGAAAAGAAGCCAAAGATGCTGTGGGGAACTGTCTTGGC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000861 unedited</p> <pre> AGCTATGNACCCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTGAACCCAGTTACAAAAAACAGGTCTGACTTTCTTGCAAAAATTCTGCTTCCTCCT CAAAGTTCAATCTCTCTGCTGATCACCGCCATCTGCTGTTCTTCTATGGGGCCTAAAAAC TTTCCAAACTACCAAGCCCTAAAACGGGGTTGGATTCCAAAAGCCCAGGTGCCTGC CTGGCAACACACAGGCCCTTCGTCCTCTATTTCTTGTGGACATCATAAGGATCATTTTG TTGCATCCCTCAAAGCCTCCCTTAGGAGCGAATATGCAGAATCTCTTGAATGTCTTCT TGAAGTTCTCATTGCACAAGGGTAAATGAGGGGGTTCAGTGTGGAGTTGATGTAACCCA ACCAGATGGTGAACATGTGCAAATGTTCAATGCAACAGTCTTGCAAGGCAATGACCA TGAAGAAGATGAAATAAGGGATCCAGCAGAGGATGAAGGCTGCCATGATAAAACCCAACT GTTTGGCGGCCTTCCTTTCGCGGTTTCATGTGCAACCCAGATACATACTGTCTTGAATGCG AGCGGAGCCTCTCCAAGTAACTTGATGTAATCCAGGCCTGTGTAGACCCACTCCTCA ATTTGCCCTTGGCTGGTGTCTCTGTGGTGGTATCTGAGTCCGTTTCGAGAGAAGATGG NCTATCACCTAACATCTGATCCTCTGAATCTCGCTGGCCATGTGTTGTCAGGCCTGTGCT CATCTGTCTTGAGCTGGCCATGGCTTCCGGTGACGGCTACATAGTCCCTGCTACTNCCCT CTGNCGCAGCCTGCATGTGCACAATATCAGTGGAAAGCANNANAGNNTTGNCTACTTCT CTATCACCTCTGGGCTGAAGACTGGGGGATACATTCTTNGGGGGTTTGGGGAAGGG GGGACTTCAAGACAGATCCACCACCAGCATCTTTGGGCCTT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000861
Insert Size:	1860 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>NM_000861.2</u> , <u>NP_000852.1</u>
RefSeq Size:	3870 bp
RefSeq ORF:	1464 bp
Locus ID:	3269
UniProt ID:	<u>P35367</u>
Cytogenetics:	3p25.3
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	<p>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. The protein encoded by this gene is an integral membrane protein and belongs to the G protein-coupled receptor superfamily. It mediates the contraction of smooth muscles, the increase in capillary permeability due to contraction of terminal venules, the release of catecholamine from adrenal medulla, and neurotransmission in the central nervous system. It has been associated with multiple processes, including memory and learning, circadian rhythm, and thermoregulation. It is also known to contribute to the pathophysiology of allergic diseases such as atopic dermatitis, asthma, anaphylaxis and allergic rhinitis. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2015]</p> <p>Transcript Variant: This variant (4), also known as H/I/K, differs in the 5' UTR compared to variant 1. Variants 1-4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>