

## Product datasheet for **SC316384**

### HRH1 (NM\_001098212) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HRH1 (NM_001098212) Human Untagged Clone
Tag:	Tag Free
Symbol:	HRH1
Synonyms:	H1-R; H1R; HH1R; hisH1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001098212 edited  
 ATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTGTGAACCGT  
 CAGAATTTTGTAAACGACTCACTATAGGGCGGCCGCGGGGAGTGAGCCATAACTGGCG  
 GCTGCTTTGCGCAATGAGCCTCCCAATTCCTCTGCTCTTAGAAGACAAGATGTGT  
 GAGGGCAACAAGACCACTATGGCCAGCCCCAGCTGATGCCCTGGTGGTGGTCTGAGC  
 ACTATCTGCTTGGTCACAGTAGGGCTCAACCTGCTGGTGTGTATGCCGTACGGAGTGAG  
 CGGAAGTCCACACTGTGGGAACCTGTACATCGTCAGCCTCTCGGTGGCGGACTTGATC  
 GTGGGTGCCGTGTCATGCCTATGAACATCCTCTACCTGCTCATGTCCAAGTGGTCACTG  
 GGCGTCTCTCTGCTCTTTTGGCTTTCCATGGACTATGTGGCCAGCACAGCGTCCATT  
 TTCAGTGTCTTACCTGTGCATTGATCGCTACCGCTCTGTCCAGCAGCCCCTCAGGTAC  
 CTTAAGTATCGTACCAAGACCCGAGCCTCGGCCACCATTCTGGGGCCTGGTTTCTCTCT  
 TTTCTGTGGTTATCCATTCTAGGCTGGAATCACTTCATGCAGCAGACCTCGGTGCGC  
 CGAGAGGACAAGTGTGAGACAGACTTCTATGATGTCACCTGGTTCAAGGTCATGACTGCC  
 ATCATCAACTTCTACCTGCCACCTTGCTCATGCTCTGGTTCTATGCCAAGATCTACAAG  
 GCCGTACGACAACACTGCCAGCACCGGGAGCTCATCAATAGGTCCTCCCTTCTCTCTCA  
 GAAATTAAGCTGAGGCCAGAGAACCCCAAGGGGATGCCAAGAAACCAGGGAAGGAGTCT  
 CCCTGGGAGGTTCTGAAAAGGAAGCCAAAAGATGCTGGTGGTGGATCTGTCTTGAAGTCA  
 CCATCCCAAACCCCAAGGAGATGAAATCCCCAGTTGTCTTACGCCAAGAGGATGATAGA  
 GAAGTAGACAACTCTACTGCTTCCACTTGATATTGTGCACATGCAGGCTGCGGCAGAG  
 GGGAGTAGCAGGGACTATGTAGCCGTCACCCGGAGCCATGGCCAGCTCAAGACAGATGAG  
 CAGGGCCTGAACACACATGGGGCCAGCGAGATATCAGAGGATCAGATGTTAGGTGATAGC  
 CAATCCTTCTCTGAACGACTCAGATACCACCACAGAGACAGCACCAGGCAAAGGCAAA  
 TTGAGGAGTGGTCTAACACAGGCTGGATTACATCAAGTTTACTTGGAAGAGGCTCCGC  
 TCGCATTCAAGACAGTATGTATCTGGGTTGCACATGAACCGCAAGGAAGGCCGCCAAA  
 CAGTTGGTTTTATCATGGCAGCCTTCATCCTCTGCTGGATCCCTTATTTTCATCTTCTTC  
 ATGGTCATTGCCTTCTGCAAGAACTGTTGCAATGAACATTTGCACATGTTACCCTCTGG  
 CTGGGCTACATCAACTCCACACTGAACCCCTCATCTACCCCTTGTGCAATGAGAACTTC  
 AAGAAGACATTCAAGAGAATTCTGCATATTCGCTCCTAAGGGAGGCTCTGAGGGGATGCA  
 AAAAAATGATCCTTATGATGTCCAACAAGGAAATAGAGGACGAAGGCCTGTGTGTGCCA  
 GGCAGGCACCTGGGCTTTCTGGAATCAAACCACAGTCTTAGGGGCTTGGTAGTTTGAA  
 AGTTCTTAGGCACCATAGAAGAACAGCAGATGGCGGTGATCAGCAGAGAGATTGAACTTT  
 GAGGAGGAAGCAGAATCTTTGCAAGAAAGTCAGACCTGTTTCTTGTAACTGGGTTCAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001098212

**Insert Size:** 1900 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).

**OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_001098212.1.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001098212.1</a> , <a href="#">NP_001091682.1</a>
<b>RefSeq Size:</b>	4298 bp
<b>RefSeq ORF:</b>	1464 bp
<b>Locus ID:</b>	3269
<b>UniProt ID:</b>	<a href="#">P35367</a>
<b>Cytogenetics:</b>	3p25.3
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	<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 (2), also known as B/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>