

Product datasheet for **SC316385**

HRH1 (NM_001098211) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HRH1 (NM_001098211) Human Untagged Clone
Tag: Tag Free
Symbol: HRH1
Synonyms: H1-R; H1R; HH1R; hisH1
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001098211 edited
 AGTATTGGAGTGTTACAGGGAGACATACAGGATTTAAGAAGCCCATCATGGAGAAGACCT
 TCAATTACAGAGATAAAAAGTTTTCTTGTGAACAAGTTACACTAGATGGAAGATAACAG
 ACTGAGGAGTGAGCTGCTTCTGACTCGATTAAAAAGGGAGTGAGCCATAACTGGCGGCTG
 CTCTTGCCCAATGAGCCTCCCCAATTCCTCCTGCCTCTTAGAAGACAAGATGTGTGAGG
 GCAACAAGACCACTATGGCCAGCCCCAGCTGATGCCCTGGTGGTGGTCTGAGCACTA
 TCTGCTTGGTCACAGTAGGGCTCAACCTGCTGGTGTGTATGCCGTACGGAGTGAGCGGA
 AGCTCCCACTGTGGGAACCTGTACATCGTCAGCCTCTCGGTGGCGGACTTGATCGTGG
 GTGCCGTGTCATGCCTATGAACATCCTCTACCTGCTCATGTCCAAGTGGTCACTGGGCC
 GTCCTCTCGCTCTTTGGCTTTCCATGGACTATGTGGCCAGCACAGCGTCCATTTTCA
 GTGTCTTCATCCTGTGCATTGATCGCTACCGCTCTGTCCAGCAGCCCTCAGGTACCTTA
 AGTATCGTACCAAGACCCGAGCCTCGGCCACCATTCTGGGGGCTGGTTTCTCTCTTTTC
 TGTGGGTATTCCATTCTAGGCTGGAATCACTTCATGCAGCAGACCTCGGTGCGCCGAG
 AGGACAAGTGTGAGACAGACTTCTATGATGTCACCTGGTCAAGGTCATGACTGCCATCA
 TCAACTTCTACCTGCCACCTTGCTCATGCTCTGGTCTATGCCAAGATCTACAAGGCCG
 TACGACAACACTGCCAGCACCGGGAGCTCATCAATAGGTCCTCCCTTCTCAGAAA
 TTAAGCTGAGGCCAGAGAACCCCAAGGGGATGCCAAGAAACCAGGAAGGAGTCTCCCT
 GGGAGGTTCTGAAAAGGAAGCCAAAAGATGCTGGTGGTGGATCTGTCTTGAAGTACCAT
 CCCAAACCCCAAGGAGATGAAATCCCCAGTTGTCTTCAGCCAAGAGGATGATAGAGAAG
 TAGCAAACCTCTACTGCTTCCACTTGATATTGAGCACATGCAAGCTGCGGCAGAGGGGA
 GTAGCAGGACTATGTAGCCGTCACACCGAGCCATGGCCAGCTCAAGACAGATGAGCAGG
 GCCTGAACACACATGGGGCCAGCGAGATATCAGAGGATCAGATGTTAGGTGATAGCCAT
 CCTTCTCTCGAACGACTCAGATACCACCACAGAGACAGCACCAGGCAAAGGCAAATTGA
 GGAGTGGGTCTAACACAGGCTGGATTACATCAAGTTTACTTGGAAAGAGGCTCCGCTCGC
 ATTCAAGACAGTATGTATCTGGTTGCACATGAACCGCAAAGGAAGGCCCAAACAGT
 TGGGTTTTATCATGGCAGCCTTCATCCTCTGCTGGATCCCTTATTTTCATCTTCTCATGG
 TCATTGCCTTCTGCAAGAAGTGTGCAATGAACATTTGCACATGTTACCATCTGGCTGG



[View online »](#)

GCTACATCAACTCCACACTGAACCCCTCATCTACCCCTTGTGCAATGAGAACTTCAAGA
 AGACATTCAGAGAATTCTGCATATTCGCTCCTAAGGGAGGCTCTGAGGGGATGCAACAA
 AATGATCCTTATGATGTCCAACAAGGAAATAGAGGACGAAGGCCTGTGTGTTGCCAGGCA
 GGCACCTGGGCTTTTGGAAATCCAAACCACAGTCTTAGGGGCTTGGTAGTTTGAAAGTT
 CTTAGGCACCATAGAAGAACAGCAGATGGCGGTGATCAGCAGAGAGATTGAACTTTGAGG
 AGGAAGCAGAATCTTTGCAAGAAAGTCAAGCTGTTTCTTGTAACTGGGTTCAAAAAGAA
 AAAAAATAAAAAATAAAGAGAGAGAGAATCAGACCTGGGTGGAACCTCCTGCTCCTC
 AGGAACTATGGGAGCCTCAGACTCATTGTAATCAAGCTTCCGAGTCAAGTGATTGACA
 ACTGAAGAGACACGTGGCTAGGGTTCCACTGGAGAATTGAAAAGGACTCTTGAGCCCTCC
 TGGAAATGGAGCTGTAACTGTGCAGAGACTTTATCCATGCCAATAGTTGCTGTCCCTT
 CCAGGGGTACCTTGAGAGGCATGACAGCTGTTCCACAGGGGCTATCCCTTCTCAGAAAA
 CTTCTCTTCTGAGCCTCTTAAACAGCTTCTCCAGAACCAGTGTCTGAACCACCTGGAA
 ATTCTGCCTTATTATTTCTTACTCAAACATGTTTAGAGTGGATAGAAAATATGCAGCTT
 GCACACCCATCGTCTTAAACCCAAATTTCTTTGGCTATTAAGAAAGTGGTGGCAAAAAG
 GCATCCTCAAAAGAAAGAGAAAATGAAATATTTTTGAATGGTTGCACGTTAAAAATTA
 GAAGGAATGGGGCAGAAATGCCATATTTTTGAGGGCTGTACTAGGTTTATCTCATTAAAG
 CCCCACAACCCACAGGAGGGTAATTTTCTAACTCTAGTTTGCAGAGGAGCAAATTTGA
 GGTTTCAGCAAGGTGAGAGAGGTACCCAAGGTACATAGCTAGTTATGTGAGAAAGTTAGA
 GTACAGATCCTCTGGGGTTTTAGCTTATTGTAGCATATTTTCTCCGAAAGGCAAAAATG
 TGCCCTTTTGGCCGGCATGGTAGCTCAAGCCTATAATCCAGCATGTTGAGAGGCTGAG
 GTGGGCAGATCATTGAGGCCAGGAGTTCAAGACCAGTCTGGCCAATATGGAGAAACCTT
 GTCTCTACTAAAAACACAAAAATATCTGGGCATGGTGGGGCATGCCTGTAGTCCCCTT
 ACTTGGGAGGCCGAGGCACGAGAATCGCTTGAACCCGGGAGGTGGAGGTTGCCGTGAGCC
 AAGATCACGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTGTCTCAAAAAA
 AAATACAATATTTTAAACATGTGCCCTCTTAAGTGTGCACAGATACACATACACGGTATT
 CCCAAGAGTGGTGGCAGCTCAAAATGATATGTTTGTAGTAGACGAACAGCCGACATGGAGT
 TCCCGTGCACCTACGGAAGGGGACGCTTGAAGGAACCAAGTGCATTTTTATCTGTGAGT
 TCTGTTGTGTTGTCAAAAAGTCAATGTAATCTTTCATAGCCATACCTGGTAAGCAAAA
 CTAGTAAAGACATAGGAACATGCAGTTTACTTGGTGTATGTTGCAATCTGGTTGTGA
 TTTATATTTTAAAGCTTGGTGTCTAAACCACAATATGTATAGCACATGGAGTGCCTGTACA
 AGCTGATGTTTTGTATTTGTGTTCTCTTTGCATGATCTGTCAAAGTGAGATATTTT
 CCTGCCTAAAATATGATGTTTAAAGCATAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001098211
- Insert Size:** 3500 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 contain one SNP compared with NM_001098211.1.
- 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).

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_001098211.1](#), [NP_001091681.1](#)

RefSeq Size: 4348 bp

RefSeq ORF: 1464 bp

Locus ID: 3269

UniProt ID: [P35367](#)

Cytogenetics: 3p25.3

Protein Families: Druggable Genome, GPCR, Transmembrane

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

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. 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]

Transcript Variant: This variant (3), also known as F/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.