

Product datasheet for **RG218388**

HRH3 (NM_007232) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | HRH3 (NM_007232) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | HRH3 |
| Synonyms: | GPCR97; HH3R |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG218388 representing NM_007232
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCGCGCGCCGCCGACGGCCGCTGAACGCTTCGGGGCGCTGGCGGGCGATGCGCGCGCGCGG
 GCGGGGCGCGCGCTTCTCGGCAGCCTGGACCGGGTGTGGCCGCGCTCATGGCGCTGCTCATCGTGGC
 CACGGTGTGGGCAACGCGCTGGTCATGCTCGCCTTCGTGGCCGACTCGAGCCTCCGCACCCAGAACAAC
 TTCTTCTGCTCAACCTCGCCATCTCCGACTTCTCGTCGGCGCCTTCTGCATCCCACTGTATGTACCT
 ACGTGTGACAGGCCGCTGGACCTTCGGCCGGGCGCTCTGCAAGCTGTGGCTGGTGTGGACTACCTGCT
 GTGCACCTCCTTGCCTCAACATCGTGTCTCATCAGCTACGACCGCTTCTGTGGTACCCGAGCGGTC
 TCATACCGGGCCAGCAGGGTGACACGCGCGGGCAGTGCGAAGATGCTGCTGGTGTGGTGTGGCTGGCT
 TCCTGCTGTACGGACAGCCATCCTGAGCTGGGAGTACCTGTCCGGGGCAGCTCCATCCCCGAGGGCCA
 CTGCTATGCCGAGTTCTTACAACCTGGTACTTCTCATCACGGCTTCCACCCTGGAGTTCTTTACGCC
 TTCTCAGCGTACCTTCTTAACTCAGCATCTACCTGAACATCCAGAGGCGCACCCGCTCCGGCTGG
 ATGGGGTTCGAGAGGCAGCCGGCCCGAGCCCTCCCGAGGCCAGCCCTACCCACCCCAACCGCTGG
 CTGCTGGGGTGTGGCAGAAGGGGACGGGGAGGCCATGCCGCTGCACAGGTATGGGGTGGGTGAGGCG
 GCCGTAGGCGCTGAGGCCGGGAGGCGACCCTCGGGGTGGCGGTGGGGCGGCTCCGTGGCTTACCCCA
 CCTCCAGTCCGGCAGCTCCTCGAGGGGCACTGAGAGGCCGCGCTCACTCAAGAGGGGCTCCAAGCCGTC
 GGCGTCTCGGCTCGCTGGAGAAGCGCATGAAGATGGTGTCCCAGAGCTTACCCAGCGCTTTCGGCTG
 TCTCGGGACAGAAAGTGCCAAAGTCTGGCCGTCATCGTGTGAGCATCTTTGGGCTCTGCTGGGCCCCAT
 ACACGCTGCTGATGATCATCCGGCCGCTGCCATGGCCACTGCGTCCCTGACTACTGGTACGAAACCTC
 CTCTGGCTCCTGTGGGCAACTCGGCTGTCAACCCTGTCTACCCTCTGTGCCACCACAGCTTCCGC
 CGGGCTTACCAAGCTGCTCTGCCCCAGAAGCTCAAAATCCAGCCCCACAGCTCCCTGGAGCACTGCT
 GGAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218388 representing NM_007232
 Red=Cloning site Green=Tags(s)

MERAPPDGPLNASGALAGDAAAAGGARGFSAAWTAVLAALMALLIVATVLGNALVMLAFVADSSLRTQNN
 FFLLNLAISDFLVGAFCIPLYVPYVLTGRWTFGRGLCKLWLVVDYLLCTSSAFNIVLISYDRFLSVTRAV
 SYRAQQGDTRRAVRKMLLVWVLAFLLYGPAILSWEYLSGGSSIEGHCYAEFFYNWYFLITASTLEFFTP
 FLSVTFNLSIYLNIIQRRLRLDGLAREAAAGPEPPPEAQPSPPPPPGCWGCWQKGHGEAMPLHRYGVGEA
 AVGAEAGEATLGGGGGGSVASPTSSSGSSRGTERPRSLKRGSKPSASSASLEKRMKMVSQSFTQRFRL
 SRDRKVAKSLAVIVSIFGLCWAPYTLMIIRAACHGHCVDPYWYETSFWLLWANSVNPVLYPLCHHSFR
 RAFTKLLCPQKLIKIPHSLEHCWK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_007232

ORF Size: 1335 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_007232.1](#), [NP_009163.1](#)

RefSeq Size: 2699 bp

RefSeq ORF: 1338 bp

Locus ID: 11255

UniProt ID: [Q9Y5N1](#)

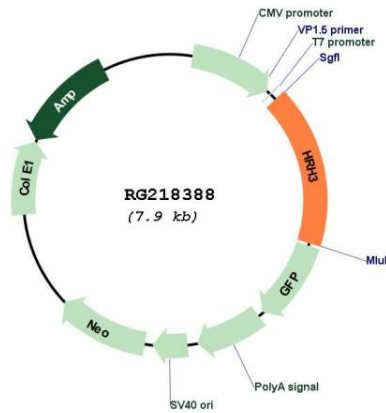
Cytogenetics: 20q13.33

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: 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. This gene encodes one of the histamine receptors (H3) which belongs to the family 1 of G protein-coupled receptors. It is an integral membrane protein and can regulate neurotransmitter release. This receptor can also increase voltage-dependent calcium current in smooth muscles and innervates the blood vessels and the heart in cardiovascular system. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG218388