

Product datasheet for **RG225618**

HRH2 (NM_001131055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HRH2 (NM_001131055) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HRH2
Synonyms:	H2R; HH2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225618 representing NM_001131055 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACCCAATGGCACAGCCTCTTCTTTTGCCTGGACTCTACCGCATGCAAGATCACCATCACCGTGG
TCCTTGC GGTCCTCATCCTCATACCGTTGCTGGCAATGTGGTCGTCTGTCTGGCCGTGGGCTTGAACCG
CCGGCTCCGCAACCTGACCAATTGTTTCATCGTGTCTTGGCTATCACTGACCTGCTCCTCGGCCTCCTG
GTGCTGCCCTTCTGCCATCTACCAGTGTCTGCAAGTGGAGCTTTGGCAAGGCTTCTGCAATATCT
ACACCAGCCTGGATGTGATGCTCTGCACAGCCTCCATTCTAACCTCTTCATGATCAGCCTCGACCGGTA
CTGCGCTGTATGGACCCACTGCGGTACCCTGTGCTGGTACCCAGTTCGGGTGCGCATCTCTCTGGTC
TTAATTTGGGTCACTCCATTACCTGTCTTTCTGTCTATCCACCTGGGGTGGAAACAGCAGGAACGAGA
CCAGCAAGGGCAATCATACCACCTTAAGTGCAAAGTCCAGGTCAATGAAGTGTACGGGCTGGTGGATGG
GCTGGTACCTTCTACCTCCCGTACTGATCATGTGCATCACCTACTACCGCATCTTCAAGTTCGCCCCG
GATCAGGCCAAGAGGATCAATCACATTAGCTCCTGGAAGGCAGCCACCATCAGGGAGCACAAGCCACAG
TGACACTGGCCGCCGTCATGGGGCCTTCATCATCTGCTGGTTTCCCTACTTCACCGCTTTGTGTACCG
TGGGCTGAGAGGGGATGATGCCATCAATGAGGTGTTAGAAGCCATCGTTCTGTGGCTGGGCTATGCCAAC
TCAGCCCTGAACCCATCCTGTATGCTGCGCTGAACAGAGACTCCGCACCGGGTACCAACAGCTCTTCT
GCTGCAGGCTGGCCAACCGCAACTCCACAAAACCTTCTCTGAGGTCCAACGCTCTCAGCTGTCCAGGAC
CCAAAGCCGAGAACCAGGCAACAGGAAGAGAAAACCCCTGAAGTCCAGGTGTGGAGTGGGACAGAAGTC
ACGGCCCCCAGGGAGCCACAGACAGACCATGGCTTTGCCTTCCAGAATGCTGGTCTGTGGAACGACCC
ATTCATTCATTATTGTTTCATTTCATTTCATTGCAACATTTCATCCAATTCACCCACATGCCAGGAATT
A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225618 representing NM_001131055
Red=Cloning site Green=Tags(s)

```
MAPNGTASSFCLDSTACKITITVVLAVLILITVAGNVVCLAVGLNRRLRNLNCFIVSLAITDLLLGLL
VLPFSAIYQLSCKWSFGKVFNCNIYTSLDVMLCTASILNLFMISLDRYCAVMDPLRYPVLVTPVRVAISLV
LIWVISITLSFLSIHLGWNSRNETSKGNHTTSKCKVQVNEVYGLVDGLVTFYLPLLIMCITYYRIFKVAR
DQAKRINHISSWKAATIREHKATVTLAAVMGAFIICWFPPYFTAFVYRGLRGDDAINEVLEAIVLWLGyan
SALNPILYAALNRDFRTGYQLFCCLANRNSHKTSLSRNASQLSRTQSREPRQEEKPLKLQVWSGTEV
TAPQGATDRPWLCLEPCWSVELTHSFIHLFIHSFANIHPITTCQEL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001131055

ORF Size: 1191 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_001131055.2](#)

RefSeq Size: 2624 bp

RefSeq ORF: 1194 bp

Locus ID: 3274

UniProt ID: [P25021](#)

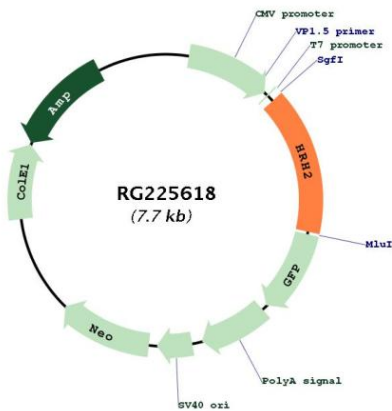
Cytogenetics: 5q35.2

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. Histamine receptor H2 belongs to the family 1 of G protein-coupled receptors. It is an integral membrane protein and stimulates gastric acid secretion. It also regulates gastrointestinal motility and intestinal secretion and is thought to be involved in regulating cell growth and differentiation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RG225618