

Product datasheet for **RG212140**

HRH2 (NM_022304) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: HRH2 (NM_022304) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: HRH2
 Synonyms: H2R
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG212140 representing NM_022304
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACCCAATGGCACAGCCTCTTCCTTTGCGCTGGACTCTACCGCATGCAAGATCACCATCACCGTGG
 TCCTTGGCGTCTCATCCTCATACCGTTGCTGGCAATGTGGTCGTCTGTCTGGCCGTGGGCTTGAACCG
 CCGGCTCCGCAACCTGACCAATTGTTTCATCGTGCCTGGCTATCACTGACCTGCTCCTCGGCCTCCTG
 GTGCTGCCCTTCTGCCATCTACCAGCTGTCTGCAAGTGGAGCTTTGGCAAGGCTTCTGCAATATCT
 ACACCAGCCTGGATGTGATGCTCTGCACAGCCTCCATTCTAACCTTTCATGATCAGCCTCGACCGGTA
 CTGCGCTGTATGGACCCACTGCGGTACCCTGTCTGGTACCCAGTTCGGGTGCGCATCTCTCTGGTC
 TTAATTTGGGTACTCTCCATTACCTGTCTTTCTGTCTATCCACCTGGGGTGGAAACAGCAGGAACGAGA
 CCAGCAAGGGCAATCATACCACCTTAAGTGCAAAGTCCAGGTCAATGAAGTGTACGGGCTGGTGGATGG
 GCTGGTACCTTCTACCTCCCGTACTGATCATGTGCATCACCTACTACCGCATCTTCAAGTTCGCCCGG
 GATCAGGCCAAGAGGATCAATCACATTAGCTCCTGGAAGGCAGCCACCATCAGGGAGCACAAAGCCACAG
 TGACACTGGCCGCCGTATGGGGCCTTCATCATCTGCTGGTTTCCCTACTTCACCGCTTTGTGTACCG
 TGGGCTGAGAGGGGATGATGCCATCAATGAGGTGTTAGAAGCCATCGTTCTGTGGCTGGGCTATGCCAAC
 TCAGCCCTGAACCCATCCTGTATGCTGCGCTGAACAGAGACTCCGCACCGGTTACCAACAGCTCTTCT
 GCTGCAGGCTGGCAACCGCAACTCCACAAAATTCTCTGAGGTCCAACGCCTCTCAGCTGTCCAGGAC
 CCAAAGCCGAGAACCAGGCAACAGGAAGAAACCCCTGAAGCTCCAGGTGTGGAGTGGGACAGAAGTC
 ACGGCCCCAGGGAGCCACAGACAGG

AC**CGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212140 representing NM_022304
Red=Cloning site Green=Tags(s)

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MAPNGTASSFCLDSTACKITITVVLAVLILITVAGNVVCLAVGLNRRLRNLTNCFIVSLAITDLLLGLL
VLPFSAIYQLSCKWSFGKVFNCNIYTSLDVMLCTASILNLFMISLDRYCAVMDPLRYPVLVTPVRVAISLV
LIWVISITLSFLSIHLGWSNRNETSKGNHTTSKCKVQVNEVYGLVDGLVTFYLPLLIMCITYYRIFKVAR
DQAKRINHISWKAATIREHKATVTLAAVMGAFIICWFPPYFTAFVYRGLRGDDAINEVLEAIVLWLGYN
SALNPILYAALNRDFRTGYQLFCCLANRNSHKTSLSRNASQLSRTQSREPRQEQEKP LKLQVWSGTEV
TAPQGATDR
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022304

ORF Size: 1077 bp

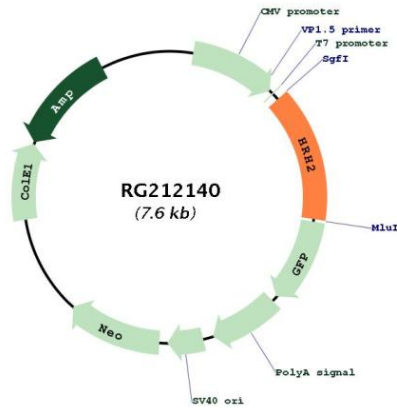
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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:	NM_022304.2
RefSeq Size:	1847 bp
RefSeq ORF:	1080 bp
Locus ID:	3274
UniProt ID:	P25021
Cytogenetics:	5q35.2
Domains:	7tm_1
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 RG212140