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Product datasheet for RG227533

HRH4 (NM_001143828) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HRH4 (NM_001143828) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HRH4
Synonyms:	AXOR35; BG26; GPCR105; GPRv53; H4; H4R; HH4R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG227533 representing NM_001143828
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGATACTAATAGCACAATCAATTTATCACTAAGCACTCGTGTTACTTTAGCATTTTTTATGTCCT
TAGTAGCTTTTGCTATAATGCTAGGAAATGCTTTGGTCATTTTAGCTTTTGTGGTGGACAAAAACCTTAG
ACATCGAAGTAGTTATTTTTTTCTTAACTTGGCCATCTCTGACTTCTTTGTGGTTTCAGAGTCTTGGAAG
GATGAAGGTAGTGAATGTGAACCTGGATTTTTTTCGGAATGGTACATCCTTGCCATCACATCATTCTTGG
AATTCGTGATCCCAGTCATCTTAGTCGCTTATTTCAACATGAATATTTATTGGAGCCTGTGGAAGCGTGA
TCATCTCAGTAGGTGCCAAAGCCATCCTGGACTGACTGCTGTCTCTTCCAACATCTGTGGACACTCATTC
AGAGGTAGACTATCTTCAAGGAGATCTCTTTCTGCATCGACAGAAGTTCCTGCATCCTTTCATTCAGAGA
GACAGAGGAGAAAGAGTAGTCTCATGTTTTCCTCAAGAACCAAGATGAATAGCAATACAATTGCTTCCAA
AATGGGTTCCTTCTCCCAATCAGATTCTGTAGCTCTTCACCAAAGGGAACATGTTGAACTGCTTAGAGCC
AGGAGATTAGCCAAGTCACTGGCCATTCTCTTAGGGGTTTTTGCTGTTTGCTGGGCTCCATATTCTCTGT
TCACAATTGTCCTTTCATTTTATTCCTCAGCAACAGGTCCTAAATCAGTTTGGTATAGAATTGCATTTTG
GCTTCAGTGGTTCAATTCCTTTGTCAATCCTCTTTTGTATCCATTGTGTCACAAGCGCTTTCAAAAGGCT
TTCTTGAAAATATTTTGTATAAAAAAGCAACCTCTACCATCACAACACAGTCGGTCAGTATCTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

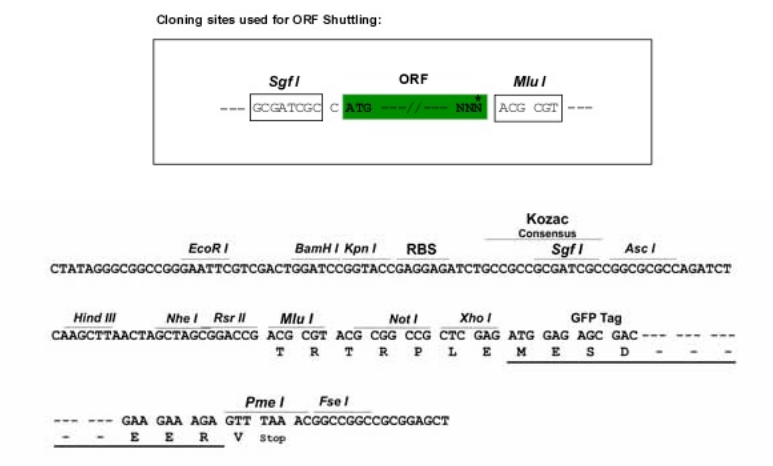
>RG227533 representing NM_001143828
Red=Cloning site Green=Tags(s)

MPDTNSTINLSLSTRVTLAFFMSLVAFAIMLGNALVILAFVVDKNLRHRSSYFFLNLAISDFFVVSESWK
DEGSECEPGFFSEWYILAITSFLEFVIPVILVAYFNMNIYWSLWKRDHLSRCQSHPGLTAVSSNICGHSF
RGRLSSRRSLSASTEVPASFHSERQRRKSSLMFSSRTKMNSNTIASKMGSFSQSDSVALHQREHVELLRA
RRLAKSLAILLGVFAVCWAPYSLFTIVLSFYSSATGPKSVWYRIAFWLQWFNSFVNPLLYPLCHKRFQKA
FLKIFCIKKQPLPSQHSRSVSS

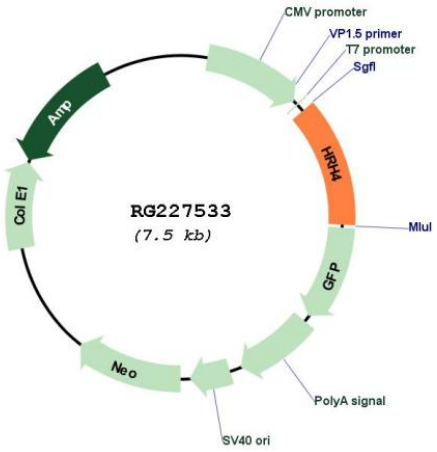
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001143828

ORF Size: 906 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_001143828.2
RefSeq Size:	3422 bp
RefSeq ORF:	909 bp
Locus ID:	59340
UniProt ID:	Q9H3N8
Cytogenetics:	18q11.2
Protein Families:	Druggable Genome, GPCR, 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 a family of histamine receptors, which are a subset of the G-protein coupled receptor superfamily. This gene encodes a histamine receptor that is predominantly expressed in haematopoietic cells. The protein is thought to play a role in inflammation and allergy reponses. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]