

Product datasheet for **RR213981**

Hgh1 (NM_001007707) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hgh1 (NM_001007707) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hgh1
Synonyms:	Brp16; Fam203a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR213981 representing NM_001007707 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGGGGACCGGAGTAGGTTCTGGGGCTCTCCGGTGAGCGAGGGTTGTCAGGGAAGGAGGCTGGCGCGG
 ACACGGAGGTGGCGAACTGCTGCCCTTCTGGTTCCCGGAGCGCGAGCAGACCTACAGGCAGCCGCGGC
 GCAGCAGTGTGGCTCTGACTGGTGTGGGCTCGGGCCGCACGCTGTTGGCTGGACAGACAGCGTTGTTG
 CGGGCTTTGATCGACCTAGCGGTGGCCCGATCCAGCTCCTTCCCGCATGCCTCCCGTGCCTGGTGA
 ACTTGGCTGCTGATCCGGATCTGCACTGGCAGATGCTGGCGGCGGACCCGAGCTGCCTGTCCGCTGCT
 GCGCTGCGTGTGGACCCCTCAGTGGCCCTGGGCTGAAGAGTTGGCTGCAGTGTGGCCAACCTGAGTCGC
 GAGCCGGCTCCGTGTGCTGTGTTAACGGAAGCTGGTGGCCGCTGAGCCCGAGCGACTGGGTCTGGAGC
 GGCTTGTGAGCGCGCTGTGCATGCCAGTTACAACGCGTCCGACCCCTGCATTACCTGGGGCCGTTGCT
 CTCCAACCTTAGCCAGCAGGCGGAGGTGCGTCTTTCTCTGGACCCGACAGGTGTGTGGTCCAACGG
 CTATTGCCACTTACCCAGTACACAGACTCCTCGGTGCGCAGGGGCGGGGTGGTGGGAACACTTCGGAATT
 GCTGTTTCGAACATCGACACCACAAGTGGTTACTCGGGCCCCAAGTCGACATTCTCCCTTCTTGCTACT
 GCCCTTGGCTGGGCTGAAGAGTTTCCGAGGAAGAGATGGAGGAGCTGCCCGTTGACCTGCAGTACCTA
 TCACCGGACAAGCAGCAGAGCCGATGCTGACATCCGAAAGATGCTTATCGAAGCCATCATGCTGCTGA
 CAGCCACCGCACCTGGTCGGAAGCAGGTACGGGATCAGGGTGCTTACTTGATCCTTCGAGAGTTATATGC
 CTGGGAGTCAGAGCCTGATGTGCAATGGCTTGTGAGAAGCTTATCCAGGTGCTTATTGGGGATGAGCCA
 GAGGTTGGCATGGAAAACCTGCTGGAGGTGAGGTACCTGAAGATGTGGAACGACAGCTCCAAGAGCTAG
 ACCAGCAAGAACAGCAAGAGCTTGTCAAGAGCGAAGAGACAAGGGTGCCCCACGGACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR213981 representing NM_001007707

Red=Cloning site Green=Tags(s)

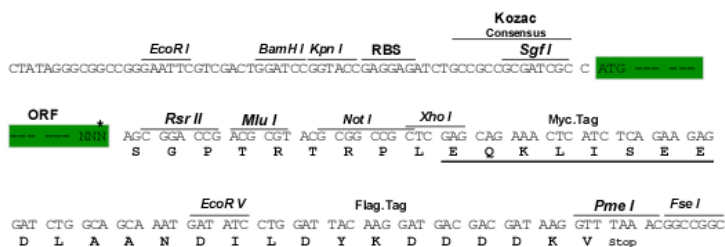
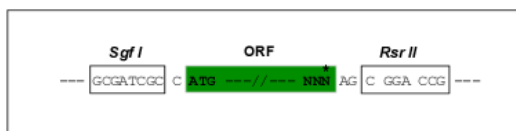
MRPGVGSGSLSGERGLSKEAGADTEVAELL PFLVPGARADLQAAAAQHVLAL TGVGSGRTLLAGQTALL
RALIDLAVAPIPAPSRDASRALVNLAADPDHLHWQMLAADPELVRLLRCVLDPQWPWAEELAAVLANLSR
EPAPCAVLTTEKLVAAEPERLGLERLVSALCMPSYNASAPLHYLGPLL SNLSQQAEVRAFLDPDRCVVQR
LLPLTQYTDSSVRGGVVGTLRNCCFEHRHKKWLLGPQVDILPFLLLPLAGPEEFSEEEEMEELPVDLQYL
SPDKQREPDAIRKMLIEAIMLLTATAPGRKQVRDQYAGYLILREL YAWSEPDVDMACEKL IQVLI GDEP
EVMGNNLELVQVPEVDVERLOELD00EEQEL AQERRDKGAPRT

SGPTRRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001007707

ORF Size: 1179 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_001007707.1](#), [NP_001007708.1](#)

RefSeq Size: 2288 bp

RefSeq ORF: 1182 bp

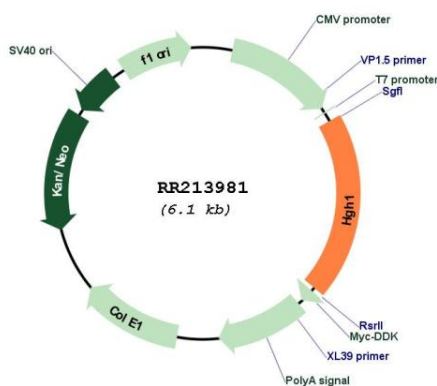
Locus ID: 315094

UniProt ID: [Q6AY79](#)

Cytogenetics: 7q34

MW: 43.1 kDa

Product images:



Circular map for RR213981