

Product datasheet for **RR204895**

Hal (NM_017159) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hal (NM_017159) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hal
Synonyms:	histidase
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR204895 representing NM_017159
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTAGGTACACGGTGCACGTGCGTGGGAATGGCTGGCGGTACCCTGCCAGGACGGGAAGCTCAGTG
TTGGCTGGCTGGCCCGAGGCTGTGCGCGCTACATGAAGAACAAGCCGGACAACGGGGCTTCACCTC
GGTGGATGAAGTGCATTCTTGTGCGCCGGTGAAGGGCCTGGGCTGTTGGACAATGAGGACCTGCTG
GAGGTGGCCCTGGAGGACAATGAGTTCGTAGAAGTGGTATTGAAGGCGATGTAATGTCTCCTGATTTC
TTCCATCACAGCCAGAAGGCGTTTTCTTTACAGCAAATACCGGGAGCCTGAAAAGTACATTGCCTTGG
TGGGGACAGTCTGAGCACGGAGGATCTGGTCAACCTAGGCAAGGGACATTACAAGATAAAGCTCACTTCA
ATAGCTGAGAAGAAAGTGCAGCAGTCCCGGAAGTCATTGACAGCATCAAAAAGAAAGAACAGTTGTTT
ACGGCATCACCACGGTTTTGGAAAATTTGCCAGAACTGTGATCCCTGCCAATAAGCTACAGGAGCTTCA
GGTCAACTTAGTCCGTTCCATTCTTCAGGTGTTGGGAAGCCACTCAGTCTGAGAGGTGTCGGATGCTC
TTGGCTTTGAGGATCAATGTCTTAGCCAAAGGATACAGTGGGATTTCTTGGAGACCCTGAAAACAAGTGA
TTGAAGTATTTAATGCCTCCTGCCTGCTCATGTTCCAGAGAAAGGGACCCTTGGTGCCAGCGGAGACCT
TGCCCCACTCTCCATCTTGCTTTGGGGCTCATTGGAGAAGGAAAGATGTGGTCCCCAAAGAGTGGCTGG
GCCGATGCCAAATATGTCTTAGAAGCCACGGATTGAAACCAATTGTTCTGAAACCAAAAGGAGGCTGG
CACTCATCAACGGGACACAGATGATCACTTCCCTGGGCTGTGAAGCCGTGGAGCGGAGCCAGCGCCATTGC
CCGGCAAGCGGATATCGTGGCTGCCTTGACCCTCGAGGTGCTGAAGGGCACCCAAAGCCTTCGATACC
GACATCCACGCCGTCCGCCCTCACCAGGGCAAATTAAGTTGCTTTCCGGTCCCGTCCCTCTTGGACT
CAGATCACCAACCGTCCAGAAATTCAGAAAGCCACAGTTCTGTGATCGTGTTCAGGATGCGTACACCTT
ACGCTGCTGTCCACAGGTCCACGGTGTGGTGAACGATACAATTGCCTTTGTGAAGGACATCATCCACACA
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GCCACCCTTCATCTGTGGACTCACTCTCTACCAGTGTGCCACGGAGGACCACGTCTCCATGGGAGGATG
GGCAGCCAGGAAAGCTCTCAGGGTCATCGAGCACGTGGAACAAGTGTGGCCATTGAGCTTCTCGCGGCC
TGCCAGGGCATAGAGTTTCTGCGCCCTTGAAAACAACCACTCCGCTGGAGAAGGTGTACGACCTGGTGC
GCTCCGTAGTAAGGCCCTGGATCAAAGATCGCTTCATGGCCCGGACATCGAGGCAGCACAGGTTGCT
TCTTGACCAGAAGGTTTGGGAGGTGGCTGCCCCGTACATCGAGAAATACAGAATGGAGCACATCCGGAA
TCCAGACCGCTTTCTCCAACAGCGTTTTCACTAGAATCTCTGAGGAAGAATTCAGCCACAATCCCAGAGT
CTGACGATCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204895 representing NM_017159
 Red=Cloning site Green=Tags(s)

MPRYTVHVRGEWLAVPCQDGKLSVGWLGREAVRRYMKNKPDNGGFTSVDEVRFVRRCKGLGLLDNEDLL
 EVALEDNEFVEVIEGDVMSPDFIPSQPEGVFLYSKYREPEKYIALDGDSLSTEDLVNLGKGHYKIKLTS
 IAEKKVQQSREVIDSIIKERTVVYGITTFGKGFARTVIPANKLQELQVNLVRSHSSGVGKPLSPERCRML
 LALRINVLAKGYSGISLETLKQVIEVFNASCLSYVPEKGTVGASGDLAPLSHLALGLIGEGKMWSPKSGW
 ADAKYVLEAHGLKPIVLKPKLEALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAFDT
 DIHAVRPHRGQIEVAFRFRSLDSDHHPSEIAESHFRCDRVQDAYTLRCCPQVHGTVVNDTIAFVKDIITT
 ELNSATDNPMVFASRGETISGGNFHGEYPAKALDYLAIGVHELAAISERRIERLCNPSELPAFLVAEG
 GLNSGFMIAHCTAAALVSESKALCHPSSVDSLSTSAATEDHVSMGGWAARKALRVIEHVEQVLAIELLAA
 CQGIIEFLRPLKTTTPELVYDLVRSVVRPWIKDRFMAPDIEAAHRLLLDQKVWEVAAPYIEKYRMEHIPE
 SRPLSPTAFSLESRLKNSATIPESDDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

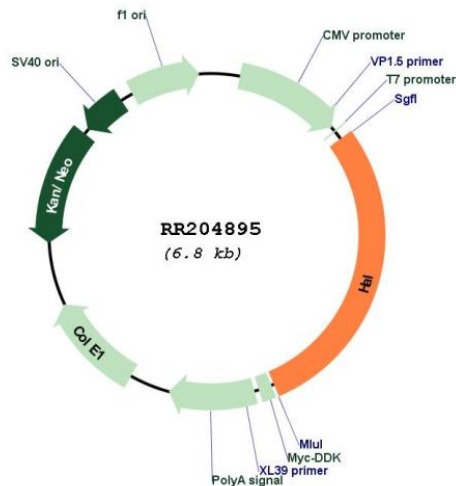
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017159

ORF Size: 1971 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_017159.1](#), [NP_058855.1](#)

RefSeq Size: 2136 bp
RefSeq ORF: 1974 bp
Locus ID: 29301
UniProt ID: [P21213](#)
Cytogenetics: 7q13
MW: 72.3 kDa
Gene Summary: catalyzes the conversion of histidine to urocanic acid [RGD, Feb 2006]