

## Product datasheet for **RC234511**

### Histidase (HAL) (NM\_001258334) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Histidase (HAL) (NM_001258334) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Histidase
Synonyms:	HIS; HSTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234511 representing NM\_001258334  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAGATACACGGTGCACGTACGTGGGAATGGCTGGCAGTGCCTGCCAGGACGCGCAGCTCACTG  
 TGGGCTGGCTGGGCCGGGAGGCCGTGAGGCGCTATATCAAGAATAAGCCCGACAATGGTGGCTTCACCTC  
 CGTGGATGACGCGCACTTCTTTGTGCGCCGGTGAAGGGCCTGGGCTGCTGGACAACGAGGACCGGCTC  
 GAGGTGGCCCTAGAGAACAACGAGTTCTGTGAAGTGGTTATAGAGGGTATGCCATGTCTCTGACTTCA  
 TTCCATCTCAACCAGAAGGAGTTTATCTATACAGCAAGTACCGGGAGCCTGAAAAGTACATCGAGTTAGA  
 TGGAGACCGTCTGACCACGGAGGATCTGGTCAACTTGGGAAAGGGACGCTACAAAATAAAGCTCACCCCA  
 ACAGCTGAGAAGAGGGTGCAGAAATCCAGGGAGGTCATAGATAGCATCATAAAGAGAAAACAGTTGTTT  
 ACGGTATTACTACAGTTTTGGGAAATTTGCCAGAAGTGAATTCCTATCAATAAGCTACAGGAGCTTCA  
 GGTCAACTTAGTACGCTCACATTCTCAGGTGTTGGGAAACCACTAAGTCCTGAGAGGTGTCGGATGCTC  
 TTGGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTCCTGGAGACCTCAAACAAGTCA  
 TAGAAATGTTAATGCCTCCTGCCTGCCCTATGTCCCAGAGAAAGGAACCGTTGGTGCCAGTGGAGACCT  
 TGCCCCACTCTCTCATCTTGCTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCGAAGAGTGGCTGG  
 GCTGATGCTAAATACGTGCTAGAAGCCCATGGATTGAAACCAGTTATTTAAAACAAAAGAGGGCCTGG  
 CACTCATCAATGGGACGCAGATGATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCCAGTGTATTGC  
 ACGGCAGGCTGACATTGTGGCAGCCCTGACCCTTGAAGTGTGAAGGGCACCCAAAGCCTTTGACACT  
 GACATTCATGCTCTTCGACCTCACCGTGGGCAAATTAAGTTGCTTTTCGGTTCCGGTCACTCTTGACT  
 CAGATCACCAACCCATCAGAAATAGCAGAGAGTCACAGGTTCTGTGATCGCGTCCAGGATGCATACACCTT  
 GCGCTGTGTCCACAGGTCATGGTGTGGTGAATGATACAATAGCATTTGTGAAGAACATCATTACCACA  
 GAACTGAACAGCGCAACAGATAATCCTATGGTCTTTGCCAATAGGGGAGAGACAGTTTCTGGAGGAACT  
 TCCATGGTGAATACCCAGCCAAAGCCCTAGACTACTTGGCCATTGGCATCCATGAACTTGTGCAATCAG  
 TGAGAGAAGAATCGAGCGGCTCTGCAATCCCTCCCTCAGTGAAGCTGCCTGCCTTCTGGTGGCTGAAGGT  
 GGTCTGAACTCTGGTTCATGATAGCTCACTGCACGGCAGCAGCCCTGTTTCTGAGAACAAGGCTCTGT  
 GCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCAGCCACGGAGGACCACGCTCTCCATGGGAGGATG  
 GGCAGCAAGGAAAGCCCTCAGGGTCATCGAGCATGTGGAGCAAGTGTGGCCATCGAGCTCCTTGACGCC  
 TGCCAGGGCATAGAGTTTCTACGCTCCCCTGAAAACAACCACTCCGCTGGAGAAGGTCTATGACCTGGTGC  
 GCTCTGTTGTAAGTTTTGGGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234511 representing NM\_001258334  
 Red=Cloning site Green=Tags(s)

MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKPDNGGFTSVDDAHFLVRRCKGLGLLDNEDRL  
 EVALENNEFVEVVIEGDAMSPDFIPSQPEGVYLYSKYREPEKYIELDGDRLTTEDLVNLGKGRYIKLTP  
 TAEKRQVKSREVIDSIIKEKTVVYGITTFGKGFARTVIPINKLQELQVNLVRSHSVGVKPLSPERCRL  
 LALRINVLAKGYSGISLETLKQVIEMFNASCLPYVPEKGTGASGDLAPLSHLALGLVGEKMWSPKSGW  
 ADAKYVLEAHGLKPVILKPKLEGLALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAFDT  
 DIHALRPHRGQIEVAFRFRSLLDSDDHPSEIAESHRFCDRVQDAYTLRCCPQVHGVVNDTIAFVKNIITT  
 ELNSATDNPMVFANRGETVSGGNFHGEYPAKALDYLAIGIHELAAISERRIERLCNPSELPAFLVAEG  
 GLNSGFIAHCTAAALVSENKALCHPSSVDSLSTSAATEDHVSMGWAARKALRVIEHVEQVLAIELLAA  
 CQGIEFLRPLKTTTPELVYDLVRSVVRFGK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001258334

**ORF Size:** 1773 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\\_001258334.2](#)
**RefSeq Size:** 3857 bp

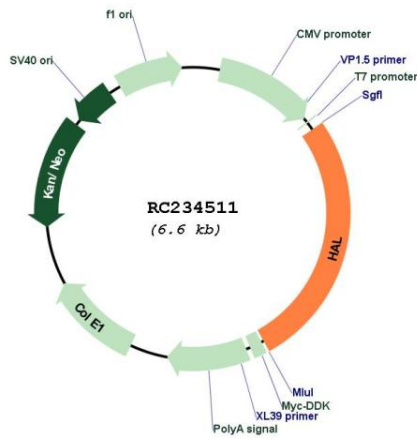
**RefSeq ORF:** 1776 bp

**Locus ID:** 3034

**UniProt ID:** [P42357](#)

<b>Cytogenetics:</b>	12q23.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Histidine metabolism, Metabolic pathways, Nitrogen metabolism
<b>MW:</b>	65.3 kDa
<b>Gene Summary:</b>	Histidine ammonia-lyase is a cytosolic enzyme catalyzing the first reaction in histidine catabolism, the nonoxidative deamination of L-histidine to trans-urocanic acid. Histidine ammonia-lyase defects cause histidinemia which is characterized by increased histidine and histamine and decreased urocanic acid in body fluids. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

**Product images:**



Circular map for RC234511