

## Product datasheet for **RC232751**

### Histidase (HAL) (NM\_001258333) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Histidase (HAL) (NM_001258333) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HAL
Synonyms:	HIS; HSTD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232751 representing NM\_001258333  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCTCTTGGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTCCTGGAGACCCTCAAAC  
 AAGTCATAGAAATGTTTAAATGCCTCCTGCCTGCCCTATGTCCCAGAGAAAAGAACCGTTGGTGCCAGTGG  
 AGACCTTGCCCACTCTCTCATCTTGTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCGAAGAGT  
 GGCTGGGCTGATGCTAAATACGTGCTAGAAGCCCATGGATTGAAACCAGTTATTTTAAAACAAAAGAGG  
 GCCTGGCACTCATCAATGGGACGCAGATGATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCCAGTGC  
 TATTGCACGGCAGGCTGACATTGTGGCAGCCCTGACCCTTGAGGTGCTGAAGGGCACCACAAAAGCCTTT  
 GACTGACATTCATGCTCTTCGACCTCACCGTGGGCAAATTGAAGTTGCTTTTCGGTTTCGGTCACTCT  
 TGGACTCAGATCACCACCATCAGAAATAGCAGAGAGTACAGGTTCTGTGATCGCGTCCAGGATGCATA  
 CACCTTGGCTGTGTCCACAGTCCATGGTGTGGTGAATGATACAATAGCATTTGTGAAGAACATCATT  
 ACCACAGAACTGAACAGCGCAACAGATAATCCTATGGTCTTTGCCAATAGGGGAGAGACAGTTTCTGGAG  
 GAAACTTCCATGGTGAATACCCAGCCAAAGCCCTAGACTACTTGCCATTGGCATCCATGAACTTGTCTGC  
 AATCAGTGAGAGAAGAATCGAGCGGCTCTGCAATCCCTCCCTCAGTGAGCTGCCTGCCTTCTGGTGGCT  
 GAAGGTGGTCTGAACTCTGGGTTTATGATAGCTCACTGCACGGCAGCAGCCCTTGTTCGAGAACAAGG  
 CTCTGTGCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCAGCCACGGAGGACCACGCTCCATGGG  
 AGGATGGCAGCAAGGAAAGCCCTCAGGGTTCATCGAGCATGTGGAGCAAGTGTGGCCATCGAGCTCCTT  
 GCAGCCTGCCAGGCATAGAGTTTCTACGTCCCCTGAAAAACAACCACTCCGCTGGAGAAGGTCTATGACC  
 TGGTGGCTCTGTTGTAAGGCCCTGGATAAAAAGATCGCTTCATGGCCCGGACATCGAGGCAGCCACAG  
 GCTGCTCCTGGAGCAGAAGGTTTGGGAAGTAGCTGCTCCATACATTGAAAAATACAGAATGGAGCATATT  
 CCAGAATCAAGACCTCTTCTCCAACAGCCTTTTCACTGCAATTTCTGCACAAGAAATCCACCAAATCC  
 CGGAGTCTGAGGACCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232751 representing NM\_001258333  
 Red=Cloning site Green=Tags(s)

MLLALRINVLAKGYSGISLETLKQVIEMFNASCLPYVPEKGTVGASGDLAPLSHLALGLVGEKMWSPKS  
 GWADAKYVLEAHGLKPVILKPKLEGLALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAF  
 DTDIHALRPHRQIEVAFRFRSLDSDHHPSEIAESHFRCDRVQDAYTLRCCPQVHGVVNDTIAFVKNI  
 TTELNSATDNPMVFNANGETVSGGNFHGEYPAKALDYLAIIGIHELAAISERRIERLCNPSLSELPFLVA  
 EGGLNSGFMI AHCTAAALVSENKALCHPSSVDSLSTSAATEDHVSMGGWAARKALRVIEHVEQVLAIELL  
 AACQGIEFLRPLKTTTTPLEKVYDLVRSVVRPWIKDRFMAPDIEAAHRLLEQKVVEVAAPYIEKYRMEHI  
 PESRPLSPTAFSLQFLHKKSTKIPESDL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

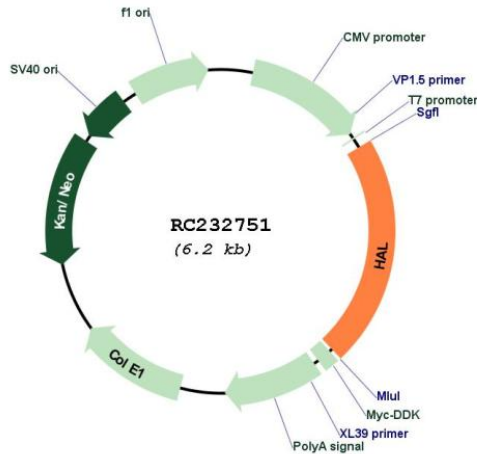
**Restriction Sites:**

Sgfl-Mlul

## Cloning Scheme:



## Plasmid Map:



ACCN:

NM\_001258333

ORF Size:

1347 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001258333.1</a> , <a href="#">NP_001245262.1</a>
<b>RefSeq Size:</b>	3860 bp
<b>RefSeq ORF:</b>	1350 bp
<b>Locus ID:</b>	3034
<b>UniProt ID:</b>	<a href="#">P42357</a>
<b>Cytogenetics:</b>	12q23.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Histidine metabolism, Metabolic pathways, Nitrogen metabolism
<b>MW:</b>	49.6 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]