

Product datasheet for **RG234511**

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:	TurboGFP
Symbol:	Histidase
Synonyms:	HIS; HSTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234511 representing NM_001258334
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGATACACGGTGCACGTACGTGGGAATGGCTGGCAGTGCCTGCCAGGACGCGCAGCTCACTG
 TGGGCTGGCTGGGCCGGGAGGCCGTGAGGCGCTATATCAAGAATAAGCCCGACAATGGTGGCTTCACCTC
 CGTGGATGACGCGCACTTCTTGTGCGCCGGTGAAGGGCCTGGGCTGCTGGACAACGAGGACCGGCTC
 GAGGTGGCCCTAGAGAACAACGAGTTCTGGAAGTGGTTATAGAGGGTATGCCATGTCTCTGACTTCA
 TTCCATCTCAACCAGAAGGAGTTTATCTATACAGCAAGTACCGGGAGCCTGAAAAGTACATCGAGTTAGA
 TGGAGACCGTCTGACCACGGAGGATCTGGTCAACTTGGGAAAGGACGCTACAAAATAAAGCTCACCCCA
 ACAGCTGAGAAGAGGGTGCAGAAATCCAGGGAGGTCATAGATAGCATCATAAAGAGAAAACAGTTGTTT
 ACGGTATTACTACAGTTTTGGGAAATTTGCCAGAAGTGAATTCCTATCAATAAGCTACAGGAGCTTCA
 GGTCAACTTAGTACGCTCACATTCTCAGGTGTTGGGAAACCACTAAGTCCTGAGAGGTGTCGGATGCTC
 TTGGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTCCTGGAGACCTCAAACAAGTCA
 TAGAAATGTTAATGCCTCCTGCCTGCCCTATGTCCCAGAGAAAGGAACCGTTGGTGCCAGTGGAGACCT
 TGCCCCACTCTCTCATCTTGCTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCGAAGAGTGGCTGG
 GCTGATGCTAAATACGTGCTAGAAGCCCATGGATTGAAACCAGTTATTTAAAACAAAAGAGGGCCTGG
 CACTCATCAATGGGACGCAGATGATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCCAGTGTATTGC
 ACGGCAGGCTGACATTGTGGCAGCCCTGACCCTTGAGGTGCTGAAGGGCACCACCAAGCCTTTGACACT
 GACATTCATGCTCTTCGACCTCACCGTGGGCAAATTTGAAGTTGCTTTTCGGTTTCGGTCACTCTTGGACT
 CAGATCACCAACCCATCAGAAATAGCAGAGAGTACAGGTTCTGTGATCGCGTCCAGGATGCATACACCTT
 GCGCTGTGTCCACAGGTCCATGGTGTGGTGAATGATACAATAGCATTTGTGAAGAACATCATTACCACA
 GAACTGAACAGCGCAACAGATAATCCTATGGTCTTTGCCAATAGGGGAGAGACAGTTTCTGGAGGAACT
 TCCATGGTGAATACCCAGCCAAAGCCCTAGACTACTTGGCCATTGGCATCCATGAACTTGTGCAATCAG
 TGAGAGAAGAATCGAGCGGCTCTGCAATCCCTCCCTCAGTGAAGCTGCCTGCCTTCTGGTGGCTGAAGGT
 GGTCTGAACTCTGGTTCATGATAGCTCACTGCACGGCAGCAGCCCTGTTTCTGAGAACAAGGCTCTGT
 GCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCAGCCACGGAGGACCACGCTCTCCATGGGAGGATG
 GGCAGCAAGGAAAGCCCTCAGGGTCATCGAGCATGTGGAGCAAGTGTGGCCATCGAGCTCCTTGCAGCC
 TGCCAGGGCATAGAGTTTCTACGTCCTCCCTGAAAACAACCACTCCGCTGGAGAAGGTCTATGACCTGGTGC
 GCTCTGTTGTAAGTTTTGGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234511 representing NM_001258334
 Red=Cloning site Green=Tags(s)

MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKPDNGGFTSVDDAHFLVRRCKGLGLLDNEDRL
 EVALENNEFVEVVIEGDAMSPDFIPSQPEGVYLYSKYREPEKYIELDGDRLTTEDLVNLGKGRYIKLTP
 TAEKRQKQKREVIDSIIKEKTVVYGIITTFGKGFARTVIPINKLQELQVNLVRSHSSGVGKPLSPERCRL
 LALRINVLAKGYSGISLETLKQVIEMFNASCLPYVPEKGTGASGDLAPLSHLALGLVGEKMWSPKSGW
 ADAKYVLEAHGLKPVILKPKKGLALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAFDT
 DIHALRPHRGQIEVAFRFRSLLSDHHPSEIAESHRFCDRVQDAYTLRCCPQVHGVVNDTIAFVKNIITT
 ELNSATDNPMVFANRGETVSGGNFHGEYPAKALDYLAIGIHELAAISERRIERLCNPSELPAFLVAEG
 GLNSGFMIHCTAAALVSENKALCHPSSVDSLSTSAATEDHVSMGGWAARKALRVIEHVEQVLAIELLAA
 CQGIIEFLRPLKTTTPLEKVYDLVRSVVRFGK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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](#)

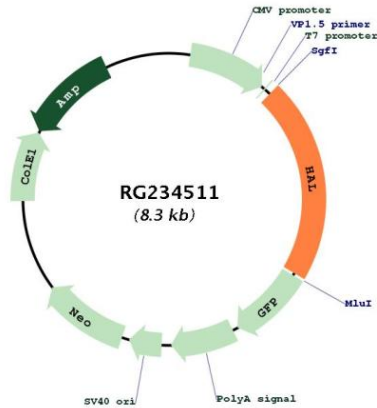
Cytogenetics: 12q23.1

Protein Families: Druggable Genome

Protein Pathways: Histidine metabolism, Metabolic pathways, Nitrogen metabolism

Gene Summary: 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 RG234511