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Product datasheet for SC330664

Histidase (HAL) (NM_001258333) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Histidase (HAL) (NM_001258333) Human Untagged Clone

Tag: Tag Free

Symbol: HAL

Synonyms: HIS; HSTD

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC330664 representing NM_001258333.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGCTCTTGGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTCCCTGGAGACCCTCAAA
CAAGTCATAGAAATGTTTAATGCCTCCTGCCTGCCCTATGTCCCAGAGAAAGGAACCGTTGGTGCCAGT
GGAGACCTTGCCCCACTCTCTCATCTTGCTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCGAAG
AGTGGCTGGGCTGATGCTAAATACGTGCTAGAAGCCCATGGATTGAAACCAGTTATTTTAAAACCAAAA
GAGGGCCTGGCACTCATCAATGGGACGCAGATGATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCC
AGTGCTATTGCACGGCAGGCTGACATTGTGGCAGCCCTGACCCTTGAGGTGCTGAAGGGCACCACCAAA
GCCTTTGACACTGACATTCATGCTCTTCGACCTCACCGTGGGCAAATTGAAGTTGCTTTTCGGTTTCGG
TCACTCTTGGACTCAGATCACCACCCATCAGAAATAGCAGAGAGTCACAGGTTCTGTGATCGCGTCCAG
GATGCATACACCTTGCGCTGCTGTCCACAGGTCCATGGTGTGGTGAATGATACAATAGCATTTGTGAAG
AACATCATTACCACAGAACTGAACAGCGCAACAGATAATCCTATGGTCTTTGCCAATAGGGGAGAGACA
GTTTCTGGAGGAAACTTCCATGGTGAATACCCAGCCAAAGCCCTAGACTACTTGGCCATTGGCATCCAT
GAACTTGCTGCAATCAGTGAGAGAAGAATCGAGCGGCTCTGCAATCCCTCCCTCAGTGAGCTGCCTGCC
TTCCTGGTGGCTGAAGGTGGTCTGAACTCTGGGTTCATGATAGCTCACTGCACGGCAGCAGCCCTTGTT
TCTGAGAACAAGGCTCTGTGCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCAGCCACGGAGGAC
CACGTCTCCATGGGAGGATGGGCAGCAAGGAAAGCCCTCAGGGTCATCGAGCATGTGGAGCAAGTGCTG
GCCATCGAGCTCCTTGCAGCCTGCCAGGGCATAGAGTTTCTACGTCCCCTGAAAACAACCACTCCGCTG
GAGAAGGTCTATGACCTGGTGCGCTCTGTTGTAAGGCCCTGGATAAAAGATCGCTTCATGGCCCCGGAC
ATCGAGGCAGCCCACAGGCTGCTCCTGGAGCAGAAGGTTTGGGAAGTAGCTGCTCCATACATTGAAAAA
TACAGAATGGAGCATATTCCAGAATCAAGACCTCTTTCTCCAACAGCCTTTTCACTGCAATTTCTGCAC
AAGAAATCCACCAAAATCCCGGAGTCTGAGGACCTTTAA

Restriction Sites: SgfI-MluI

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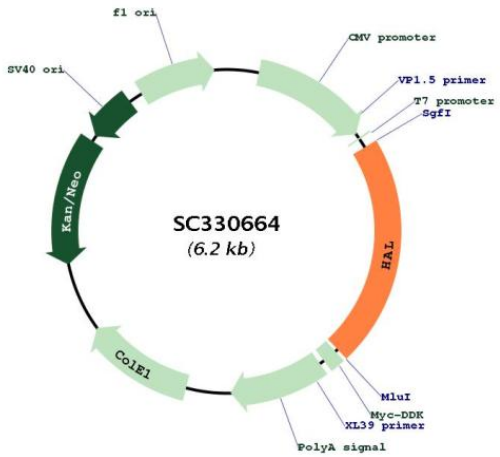
Plasmid Map:



ACCN:	NM_001258333
Insert Size:	1350 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001258333.1
RefSeq Size:	3860 bp
RefSeq ORF:	1350 bp
Locus ID:	3034

UniProt ID:	P42357
Cytogenetics:	12q23.1
Protein Families:	Druggable Genome
Protein Pathways:	Histidine metabolism, Metabolic pathways, Nitrogen metabolism
MW:	49.1 kDa
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] Transcript Variant: This variant (2) lacks an alternate coding exon compared to variant 1, that causes a frameshift. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.