

Product datasheet for **SC117427**

ASCL1 (NM_004316) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASCL1 (NM_004316) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASCL1
Synonyms:	ASH1; bHLHa46; HASH1; MASH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004316, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGCTCTGCCAAGATGGAGAGCGGCGGCGCCGGCCAGCAGCCCCAGCCGAGCCCCAGCAGCCCT
TCCTGCCGCCCGCAGCCTGTTTCTTTGCCACGGCCGAGCCGCGGCGCCGAGCCCGCGCAGCGGCAGC
GCAGAGCGCGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCGCCGCGAGCTGAGACCGGCGCC
GACGGCCAGCCCTCAGGGGGCGGTCAACAAGTCAGCGCCCAAGCAAGTCAAGCGACAGCGCTCGTCTTCGC
CCGAAGTATGCGCTGCAAACGCCGGCTCAACTTCAGCGGCTTTGGCTACAGCCTGCCGAGCAGCAGCC
GGCCGCCGTGGCGCGCCGAACGAGCGCGAGCGCAACCGCGTCAAGTTGGTCAACCTGGGCTTTGCCACC
CTTCGGGAGCACGTCCCCAACGGCGCGCCAACAAGAAGATGAGTAAGGTGGAGACTGCGCTCGGCGG
TCGAGTACATCCGCGCGCTGCAGCAGCTGCTGGACGAGCATGACGCGGTGAGCGCCGCTTCCAGGCAGG
CGTCTGTGCGCCACCATCTCCCCAACTACTCCAACGACTTGAACCTCCATGGCCGGCTCGCCGGTCTCA
TCCTACTCGTCCGACGAGGGCTTTACGACCCGCTCAGCCCCGAGGAGCAGGAGCTTCTCGACTTACCA
ACTGGTTCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004316 unedited</p> <pre>TGTTANATTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCTGGCCAGG GAACGTGGAAGGCGCACCCGACAGGNATCCGGCCAGGGAGGGCGAGTGAAAGAAGGAAATC AGAAAGGAAGGGAGTTAACAAAATAATAAAACAGCCTGAGCCACGGCTGGAGAGACCGA GACCCGGCGCAAGAGAGCGCAGCCTTAGTAGGAGAGGAACGCGAGACGCGGCAGAGCGCG TTCAGCACTGACTTTTGTGCTGCTTCTGCTTTTTTTTTTTCTTAGAAAACAAGAAGGCGCC AGCGGCAGCCTCACACGCGAGCGCCACGCGAGGCTCCCGAAGCCAACCCGCGAAGGGAGG AGGGGAGGGAGGAGGAGCGCGCTGCAGGGAGGAGAAAAAGCATTTTCACTTTTTTTGCT CCCACTCTAAGAAGTCTCCCGGGGATTTTGTATATATTTTTTAACTTCCGTCAGGGCTCC CGCTTCATATTTCTTTTCTTTCCCTCTCTGTTCTGCACCCAAGTTCTCTGTGTGCC CCTCGCGGGCCCCGCACCTCGCGTCCCGGATCGCTCTGATTCCGCGACTCCTTGCCGCC GCTGCGCATGGAAGCTTGCCAAGATGGAGAGCGGCGCGCCGCGCCAGCAGCCCCAGCC GCAGCCCCAGCAGCCCTTCTGCCGCCCGCAGCCTGTTTCTTTGCCACGGCCGCGAGCCGC CGGCGGCCGAGCCGCCGAGCGGCAGCGCAGAGCGCGCAGCAGCAGCAGCAGCAGCAGC AGCAGCAGCAGCAGCGCGCGCAGCTGAGACCGGGCGCGCAGCCAGCCTCAGGGGCGCG TCACAAGTCAGCGCCCAAGCAGTCAAGCGAAGCGCTCGTCTTCGNCCGACTGATGCGCTG CAACGCCGCTCACTCAGCGGCTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004316 unedited</p> <pre>ACTTAAAGAGGGAAAAGACTTATTACTGAACTAGTTTGTATAAAACAGGGTTATACATAT TTTTGTAAGTTTGTAAATAAACAGTAAGAAAAAAAAGCAGTAATAGAAATCTCCAAAAGG CAACCTATCAAAACCAACTGGCTGCCACTTTGAGTTTGGACAGTAGCTGCATAAACTTTG TTCTTCTTGAACAGTATTTAATAACATCATTAAATACATTAACAACATTTCTATAAAGTAA GACACATTGGTGTGTAAGTACAACCTGGTGGCCTTTGATCTCACCTATGAGGAGAGTTCT TTACAAAACACATAGGGAAAATTGCAGTTGTAAGGTGAACTACACATCTAAAATATGCA GAGGTAATAGCATTACATGTTAAAGTATCAAGATATACACATTTTAAACCATTTGTACAA AACTTCTATAAATTTTTCTCTCTTTCTCTTATGTACAAAAATATCTTAATATATCC CCGAACCTGGTTAGGATAGATACAAATAGATTTTTTATAATAAAAAAATTCACAAAAGATTG GAAGCATTCTATAATGAAAATGGTAGAAAAGACAGTGTGAGGGAAGCCATGGGGTTTGGG AATCGGGCCCTGGAGGAGAAGCAGAGTTTCAAAGGGCTGAGAATAGCATAGTTTCACTGT AAACCAATGTCTACAGCTTATTGGGGTGGGGCTACTGAGACGAAAGACACCAACTTCGT TTCTAGAAAGGCTAAGAAGTGCCTCTAAGAAGGGCGCGAGGTGAAGGGACCCGAGCATG ACCTTCAGCTGTGCCGTGTATAGTATGATGGGAGTACTATAACGCGTGTGCTGCTCCCTTCT GCCAGAACCCACTGCTTTTGCCACCAGCTGCATTTTGCGCATTGACTCAGTTCCAGTTGCG TCTCTTATCTCCCGGATGATTGAGAGCAAAAAC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004316
Insert Size:	2600 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_004316.2](#), [NP_004307.2](#)

RefSeq Size: 2482 bp

RefSeq ORF: 711 bp

Locus ID: 429

UniProt ID: [P50553](#)

Cytogenetics: 12q23.2

Domains: HLH

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a member of the basic helix-loop-helix (BHLH) family of transcription factors. The protein activates transcription by binding to the E box (5'-CANNTG-3'). Dimerization with other BHLH proteins is required for efficient DNA binding. This protein plays a role in the neuronal commitment and differentiation and in the generation of olfactory and autonomic neurons. Mutations in this gene may contribute to the congenital central hypoventilation syndrome (CCHS) phenotype in rare cases. [provided by RefSeq, Jul 2008]