

## Product datasheet for **SC324383**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_004316.2  
 CTTCTGGCCAGGGAAACGTGGAAGGCGCACCCAGGGATCCGGCCAGGGAGGGCGAGTGA  
 AAGAAGGAAATCAGAAAGGAAGGGAGTTAACAAAATAATAAAAACAGCCTGAGCCACGGC  
 TGGAGAGACCCGAGACCCGGCGCAAGAGAGCGCAGCCTTAGTAGGAGAGGAACGCGAGACG  
 CGGCAGAGCGGTTTCAGCACTGACTTTTGTGCTGCTTCTGCTTTTTTTTTTTCTTAGAAA  
 CAAGAAGGCGCCAGCGGCAGCCTCACACGCGAGCGCCACGCGAGGCTCCCGAAGCCAACC  
 CGCGAAGGGAGGGAGGGAGGAGGAGGCGGCGTGCAGGGAGGAGAAAAAGCATTTTC  
 ACTTTTTTTGCTCCCACTCTAAGAAGTCTCCCGGGATTTTGTATATATTTTTTAACTTC  
 CGTCAGGGCTCCCGCTTCATATTTCTTTTCTTCCCTCTCTGTTCTGCACCCAAGTTC  
 TCTCTGTGTCCCCTCGCGGGCCCCGCACCTCGCGTCCCGGATCGCTCTGATTCCGCGAC  
 TCCTTGGCGCCGCTGCGCATGGAAGCTCTGCCAAGATGGAGAGCGGGCGCGCCGGCCA  
 GCAGCCCCAGCCGAGCCCCAGCAGCCTTCTGCCGCCGAGCCTGTTTCTTTGCCAC  
 GGCCGAGCCGCGGGCGCCGAGCCGCCGAGCGCAGCGCAGAGCGCGCAGCAGCAGCA  
 GCAGCAGCAGCAGCAGCAGCAGCAGCGCCGCGAGCTGAGACCGGGCGCCAGGCCAGCC  
 CTCAGGGGGCGGTACAAGTCAGCGCCCAAGCAAGTCAAGCGACAGCGCTCGTCTTCGCC  
 CGAACTGATGCGTGCAAACGCCGGCTCAACTTACGCGGTTTGGCTACAGCCTCGCCGA  
 GCAGCAGCCGGCCGCGTGGCGCGCCGCAACGAGCGCGAGCGCAACCGCGTCAAGTTGGT  
 CAACCTGGGCTTTGCCACCCTTCGGGAGCAGTCCCAACGGCGCGGCCAACAAGAAGAT  
 GAGTAAGGTGGAGACTGCGCTCGGCGGTGAGTACATCCGCGCGTGCAGCAGCTGCT  
 GGACGAGCATGACGCGGTGAGCGCCGCTTCCAGGCAGGCGTCTGTGCGCCACCATCTC  
 CCCCACTACTCCAACGACTTGAATCCATGGCCGGCTCGCCGGTCTCATCTACTCGTC  
 GGACGAGGGCTCTTACGACCCGCTCAGCCCCGAGGAGCAGGAGCTTCTCGACTTACCAA  
 CTGGTTCTGAGGGGCTCGCCCTGGTCAGGCCCTGGTGCATGGACTTTGGAAGCAGGAT  
 GATCGCAACCTGCATTTTGTGCTTTTGTGAGTGGCGTTGGGAGGGGGAGAAAAG  
 GAAAAGAAAAAAGAAAGAAAGAAAGAAAGAAAGAAAAACGAAAACAGTCA  
 ACCAACCCCATCGCCAATAAGCGAGGCATGCCTGAGAGACATGGCTTTCAGAAAACGGG  
 AAGCGCTCAGAACAGTATCTTGTCACTCAATCATTACGGAGATATGAAGAGCAACTGG  
 GACCTGAGTCAATGCGCAAAATGCAGCTTGTGTGCAAAAGCAGTGGGCTCCTGGCAGAAG  
 GGAGCAGCACACGCTTATAGTAACTCCATCACCTCTAACACGCACAGCTGAAAGTTCT  
 TGCTCGGGTCCCTCACCTCCCCGCCCTTCTTAGAGTGCAGTCTTAGCCCTTAGAAA  
 CGAGTTGGTGTCTTCGTCTCAGTAGCCCCACCCAATAAGCTGTAGACATTGGTTTAC  
 AGTGAAATATGCTATTCTCAGCCCTTTGAAACTCTGCTTCTCCTCCAGGGCCCGATTCC  
 CAAACCCCATGGCTTCCCTCACACTGTCTTTTCTACCATTTTCATTATAGAATGCTTCCA  
 ATCTTTTGTGAATTTTTATTATAAAAAATCTATTTGTATCTATCCTAACCAGTTCGGGG  
 ATATATTAAGATATTTTGTACATAAGAGAGAAAGAGAGAGAAAAATTTATAGAATTTT  
 GTACAAATGGTTTAAATGTGTATATCTTGATACTTTAACATGTAATGCTATTACCTCTG  
 CATATTTTAGATGTGTAGTTCACCTTACAACGCAATTTCCCTATGTGGTTTTGTAAAG  
 AACTCTCTCATAGGTGAGATCAAGAGGCCACCAAGTGTACTTTCAGCACCATGTGTCTT  
 ACTTTATAGAAATGTTGTTAATGTATTAATGATGTTATTAATACTGTTCAAGAAGAACA  
 AAGTTTATGCAGTACTGTCCAAACTCAAAGTGGCAGCCAGTTGGTTTTGATAGGTTGCC  
 TTTTGGAGATTTCTATTACTGCCTTTTTTTTCTTACTGTTTTATTACAACTTACAAAA  
 TATGTATAACCTGTTTTATACAACTAGTTTCGTAATAAAACTTTTTCTTTTTTAA  
 ATGAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_004316

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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_004316.2</a> , <a href="#">NP_004307.2</a>
<b>RefSeq Size:</b>	2482 bp
<b>RefSeq ORF:</b>	711 bp
<b>Locus ID:</b>	429
<b>UniProt ID:</b>	<a href="#">P50553</a>
<b>Cytogenetics:</b>	12q23.2
<b>Domains:</b>	HLH
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]