

Product datasheet for **SC303595**

ASCL2 (NM_005170) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASCL2 (NM_005170) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASCL2
Synonyms:	ASH2; bHLHa45; HASH2; MASH2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005170 edited GGGTGCCCTGGGGAGTTGCCTGGCGGCGCCGTGCCAGAAGCCCCCTTGGGGGCCACAGT TTTCCCCGTCGCCTCCGTTTCTCTGCCTGCACCTTCTGCGGGCGCCGGGACCTGGAG CGGGCGGGTGGATGCAGGCGCGATGGACGGCGGCACACTGCCAGGTCCGCGCCCCCTGC GCCCCCGTCCCTGTCGGCTGCGCTGCCGCGGAGACCCGCGTCCCGGAACTGTTGCG CTGCAGCCGGCGGCGGACCGCCACCGCAGAGACCGGAGGCGGCGCAGCGGCCGTAGC GCGGCGCAATGAGCGCGAGCGCAACCGCGTGAAGCTGGTGAAGTGGGCTTCCAGGCGCT GCGGCAGCACGTGCCGACGGCGGCCAGCAAGAAGCTGAGCAAGGTGGAGACGCTGCG CTCAGCCGTGGAGTACATCCGCGCGCTGCAGCGCCTGCTGGCCGAGCACGACGCCGTGCG CAACGCGCTGGCGGGAGGGCTGAGGCCGCGAGCCGTGCGGCCGTCTGCGCCCCGGGGCC GCCAGGGACCACCCCGTCCGCGCTCGCCCTCCCGCGTTCTTGTCCCGGGCCGCGG GGGCGAGCTCGGAGCCCGCTCCCGCGTTCCGCTACTCGTCCGACGACAGCGGCTGCGA AGGCGCGCTGAGTCTGCGGAGCGGAGCTACTCGACTTCTCCAGCTGGTTAGGGGGCTA CTGAGCGCCCTCGACCTATGAGCCTCAGCCCCGAA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005170 unedited TGGCATGGCATGTCGCGGATGGGCGGTAGGCGTGTACGGGGGAGGTCTATATAAGCAGA GCTCGTTTGTAGTGAACCGTCAGAAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATT CGCCCTTGGCGTGCCTGGGGAGTTGCCTGGCGGCGCCGTGCCAGAAGCCCCCTTGGGGCG CCACAGTTTTCCCGTCGCTCCGGTTCCTCTGCCTGCACCTTCTGCGGCGGCCGGGA CCTGGAGCGGGCGGTGGATGCAGGCGCGATGGACGGCGGCACACTGCCAGTCCGCGC CCCCTGCGCCCCCGTCCCTGTGCGGCTGCGCTGCCCGGCGGAGACCCCGTCCCCGGAAC TGTTCGCTGCAGCCGGCGGCGGCGACCGGCCACCGCAGAGACCGGAGGCGGCGCAGCGG CCGTAGCGCGGCCAATGAGCGCGAGCGCAACCGCGTGAAGCTGGTGAACCTGGGCTTCC AGGCGCTGCGGCAGCACGTGCCGCACGGCGGCCAGCAAGAAGCTGAGCAAGGTGGAGA CGCTGCGCTCAGCCGTGGAGTACATCCGCGCGCTGCAGCGCTGCTGGCCGAGCAGCAGC CCGTGCACAACGCGCTGGCGGGAGGGCTGAGGCCGAGGCCGTGCGGCCGTCTGCCCCC GCGGGCCGCCAGGGACCACCCCGTCCGCGCTCGCCCTCCCGCGTTCTTCGTCCCGG GCCGCGGGGGCAGCTCGGAGCCCGCTCCCGCGTTCGCGCTACTCGTCGACGACAGCG GCTGCGAAGCGCGCTGAGTCTGCAGAGCGCGAGCTACTCAACTTCTCCAGCTGGTTAGA GGGCTACTGAGCCGCCCTCGACCTATGAGCCCTCAGCCCCGAAAAGGCGAAATGCAAT CTGGTACCGAATATCAAGC</p>
Restriction Sites:	Please inquire
ACCN:	NM_005170
Insert Size:	750 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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_005170.2](#), [NP_005161.1](#)

RefSeq Size: 1864 bp

RefSeq ORF: 582 bp

Locus ID: 430

UniProt ID: [Q99929](#)

Cytogenetics: 11p15.5

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene is a member of the basic helix-loop-helix (BHLH) family of transcription factors. It activates transcription by binding to the E box (5'-CANNTG-3'). Dimerization with other BHLH proteins is required for efficient DNA binding. Involved in the determination of the neuronal precursors in the peripheral nervous system and the central nervous system. [provided by RefSeq, Jul 2008]