

## Product datasheet for **SC117193**

### ASH2L (NM\_004674) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASH2L (NM_004674) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASH2L
Synonyms:	ASH2; ASH2L1; ASH2L2; Bre2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM\_004674 edited  
GAATTCGGCACGAGGCCAGGGGTGGCCGTGATGGCGGGCAGGAGCAGGACCTGGCCAG  
GAAGCGGGTGCCGGGCTGGCCAGGAGCGGTCGCAAATGCAACAGGGGCAGAAGAGGGG  
GAGATGAAGCCGGTGGCAGCGGGAGCAGCCGCTCCTCCTGGAGAGGGGATCTCTGCTGCT  
CCGACAGTTGAGCCAGTCCGGGGAGGCTGAAGCGGGGAGGCAAACTGGTCGATGTA  
AGCGGTGGCTTGAGACAGAATCATCTAATGGAAAAGATACTAGAAGGTGCTGGGGAT  
ACATCAGAGGTGATGGATACTCAGCGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTG  
GGTGAGGTAGAGCTGCAATGTGGGATTTGTACAAAATGGTTCACGGCTGACACATTTGGC  
ATAGATACCTCATCTGTCTACCTTTCATGACCAACTACAGTTTTTTCATTGCAACGCTGTC  
CATCACAGTGGGAATACCTATTTCTCCGAAGCAAGCAAATGAAGGAAATGTGCCTT  
AGTGCTTTGGCCAACTGACATGGCAGTCCGAACACAGGATGAACATCCGAAGACAATG  
TTCTCCAAAGATAAGGATATTATACCATTTATTGATAAACTGCGGAGTGCATGACAACC  
AGACAGAGACCTGGGAAATGACTTGCCAAATAACATTTGTTAAAACAATGAGTAAAGAA  
AGAGATGTATTCTTGGTAAAGGAACACCAGATCCAGGCAGTAAAGATCCAGAAGAAGAT  
TACCCCAAATTTGGACTTTTGGATCAGGACCTTAGTAACATTTGGTCTGCTTATGACAAC  
CAAAAACAGAGCAGTGTGTCTACTAGTGGGAATTTAAATGGGGGAATTGACAGCAGGA  
AGCAGCGGAAAAGGACGAGGAGCCAAAGCGCAAACAGCAGGATGGAGGGACCACAGGGACC  
ACCAAGAAGGCCCGAGTACCCTTTGTTTCTGCTCAGCGCCTTCCCCCTCATGGCTAC  
CCATTGGAACACCCGTTTAACAAAGATGGCTATCGGTATATTCTAGTGAGCCTGATCCG  
CACGCCCTGACCCCGAGAAGCTGGAACCTGACTGTGCTGGGCAGGAAAACCTATTCCTGGA  
GACCTCTACAGAGCCTGCTTGATGAACGGGTTTTGTTAGCCCTACATGATCGAGCTCCC  
AGGCTTAAAGATCTCAGATGACCGGCTGACTGTGGTTGGAGAGAAGGGCTACTCTATGGTG  
AGGGCCTCATGGAGTACGGAAGGGTGCCTGGTATTTTAAAATCACTGTGGATGAGATG  
CCACCAGATACCCTGCCAGACTGGGTTGGTCCCAGCCCCTAGGAAACCTTCAAGCTCCT  
TTAGGTTATGATAAATTTAGCTATTCTTGGCGGAGCAAAAAGGGAAACCAAGTTCACCAAG  
TCCATTGGCAAACTACTCTTCTGGCTATGGACAGGGAGACGTCCTGGGATTTTATATT  
AATCTTCTGAAGACACAGAGACAGCCAAAGTCAATGCCAGACACATACAAAGATAAGGCT  
TTGATAAAATCAAGAGTATTTTGTATTTTGGGAAAAAGACTTTGTGGATAAAGCAGAG  
AAGAGCCTGAAGCAGACTCCCCATAGTGAGATAATTTTTATAAAAATGGTGTCAATCAA  
GGTGTGGCTTACAAAGATAATTTTGGGGGGTTACTTCCCAGCCATCTCACTGTACAAG  
AGTGCACGGTTCCATTAACCTTTGGACCATGCTTCAAGTATCCTCCGAAGGATCTCACT  
TACCGCCCTATGAGTGACATGGGCTGGGCGCCGTGGTAGAGCACACCCTGGCTGACGTC  
TTGTATCACGTGGAGACAGAAGTGGATGGGAGGCGCAGTCCCCATGGGAACCCTGACCA  
GGTCCCTCTTTCTGTCAAGGACTTTCTGGGAATAAATACTGGGGGTTGTTTTGTTTTGA  
ACTGTXX  
AA  
AACTCGAC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004674 unedited  
 NAATTTTGTAAATACGACTCACTATAGGGCGGCCCGCAATTCGCCGAGGCCAGGGTGGCC  
 GTGATGGCGGGCGGAGGAGCAGGACCTGGCCAGGAAGCGGGTGGCCGGCCTGGCCAGGA  
 GCGGTGCGAAATGCAACAGGGGCAGAAGAGGGGGAGATGAAGCCGGTGGCAGCGGGAGCA  
 GCCGCTCTCTGGAGAGGGGATCTCTGCTGCTCCGACAGTTGAGCCCAGTTCGGGGGAG  
 GCTGAAGCGGGGAGGCAAACCTTGGTCGATGTAAGCGGTGGCTTGAGACAGAATCATCT  
 AATGGAAAAGATACACTAGAAGGTGCTGGGGATACATCAGAGGTGATGGATACTCAGGCG  
 GGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGGTGAGGTAGAGCTGCAATGTGGGATT  
 TGTACAAAATGGTTCACGGCTGACACATTTGGCATAGATACCTCATCCTGTCTACCTTTC  
 ATGACCAACTACAGTTTTTCATTGCAACGCTGCCATCACAGTGGGAATACCTATTTCTC  
 CGGAAGCAAGCAAACCTTGAAGGAAATGTGCCTTAGTGCTTTGGCCAACCTGACATGGCAG  
 TCCCGAACACAGGATGAACATCCGAAGACCATGTTCTCCAAGATAAGGATATTATACCA  
 TTTATTGATAAACTGGGAGTGCATGACAACCAGACAGACCTGNGAAAATGACTTGG  
 CCAAATAACATTGNTAAAACATGAGNTAAGAAAGAGATGTATTCTTGGTAAAGGAACACC  
 CAGATCCCAGCAGTANAGATCCAGAAGAAAGATACCCNCAATTNGACTTTTGGGATCAGA  
 CCTTTAGTACATGGNTCCTGCTNATGACACCCAAAACAGAGCAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004674 unedited  
 CGCGGGCCGCAATCTAGNAGTCGAGTCCNNNTCTCCCTTTTCCCCCTTCCCTTTTTT  
 TTTTTTTTTCTTTTCCCTTTCCCAAACCTTCAAACAAGTTTTATTTGGGAAGTTTCTC  
 ATTTTGTAAAGTGAAGCAAGTTTTTTTCACAATCACCTCCCAAAAATCTAGTAGTT  
 TTACGGATCTCAGGGTCCAAAAGGGTTTTTCAAATGAACAAACCAACCCCCCCCCAAA  
 AGGAAATAGGGTTAAAATGGGTTCGGAATGTATAGCCATTGTTTTTCAAGGGTTTCAAAA  
 CCAGGTTCCCATTTCTTTGGAAAACAGGGGGGATACAGCCAATGCCCAAGAAGGAAAGG  
 TTTTTTAAATAAGTTAGCTCCTCGGACAATATTATCCCTCCTTTAAAAAATATAGGTGG  
 GAAAACACGTCACAGCTGGGGAGGGTTTGGCAGTCCAGAACCCGTTTTTACAGGGGGCTT  
 ATGCCATTCTGGAACAGCGGTGCGCCGCTTAGGGCCACAAAAAAAACCCCTCT  
 GGAAGTGGGACAAAATGGCGAAGTTTTTNCCTTTTCCCAAGTCTCCCAATCCTTTAATT  
 TGTAAAAGGAAAGTTGGGTTTTTCAACCTTTTTCGAAACCTTCGAAACGTCAAAAACAA  
 AACAACCCCTAGTTTTTCCCAAAGCCCTTGACAAAAAAGGCACCGTAGGGTCTCC  
 ATGGGACTGGGTCTTCTTCCCTTTTGTCTCCCGGGAACCAAAGTCCCGGGGGGGTCT  
 TTACCGGGGCCCCCTTTGCTTTTTAAGGCGGGAGGCGAACCTCCGGGGTATCTTTA  
 ACCGGTCCACATCATGGAACCTGCGCCCTTTTGGCGGAAGGGCGGGGAAAAAACCC  
 CCCCAAACATTCTTGACGCCCCCTCGTTGGGCCCTTTTTAAATATTTTCTCTTTGG  
 GGGCGTGGTCCGGTCTTCTTTGCTTTACCAANGATTCTTCCCAAACACAAACG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004674

**Insert Size:**

2660 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).

<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_004674.1</a> , <a href="#">NP_004665.1</a>
<b>RefSeq Size:</b>	2381 bp
<b>RefSeq ORF:</b>	1887 bp
<b>Locus ID:</b>	9070
<b>UniProt ID:</b>	<a href="#">Q9UBL3</a>
<b>Cytogenetics:</b>	8p11.23
<b>Domains:</b>	SPRY
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>Component of the Set1/Ash2 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3, but not if the neighboring 'Lys-9' residue is already methylated. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. May function as a transcriptional regulator. May play a role in hematopoiesis.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a). 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.</p>