

## Product datasheet for **RC232869**

### ASH2L (NM\_001261832) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASH2L (NM_001261832) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ASH2L
Synonyms:	ASH2; ASH2L1; ASH2L2; Bre2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232869 representing NM\_001261832  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATACTCAGGCGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGGTGAGGTAGAGCTGCAATGTG  
 GGATTTGTACAAAATGGTTCACGGCTGACACATTTGGCATAGATACCTCATCCTGTCTACCTTTTCATGAC  
 CAACTACAGTTTTTCATTGCAACGCTGCCATCACAGTGGGAATACCTATTTCTCCGGAAGCAAGCAAAC  
 TTGAAGGAAATGTGCCTTAGTGCTTTGGCCAACCTGACATGGCAGTCCCGAACACAGGATGAACATCCGA  
 AGACAATGTTCTCAAAGATAAGGATATTATACCATTTATTGATAAACTACTGGGAGTGCATGACAACCGAG  
 ACAGAGACCTGGGAAAATGACTTGGCCAAATAACATTGTTAAAACAATGAGTAAAGAAAGAGATGTATTC  
 TTGGTAAAGGAACACCCAGATCCAGGCAGTAAAGATCCAGAAGAAGATTACCCCAAATTTGGACTTTTGG  
 ATCAGGACCTTAGTAACATTGGTCTGCTTATGACAACAAAAACAGAGCAGTGTGTGTCTACTAGTGG  
 GAATTTAAATGGGGGAATTGCAGCAGGAAGCAGCGGAAAAGGACGAGGAGCAAGCGCAAACAGCAGGAT  
 GGAGGGACACAGGGACCACCAAGAAGGCCCGGAGTGACCCTTTGTTTTCTGCTCAGCGCCTTCCCCTC  
 ATGGCTACCCATTGGAACACCCGTTTAAACAAAGATGGCTATCGGTATATTCTAGCTGAGCCTGATCCGCA  
 CGCCCCGACCCCGAGAAGCTGGAACCTTGACTGCTGGGCAGGAAAACCTATTCTGGAGACCTCTACAGA  
 GCCTGCTTGTATGAACGGGTTTTGTTAGCCCTACATGATCGAGCTCCCCAGTTAAAGATCTCAGATGACC  
 GGCTGACTGTGGTTGGAGAGAAGGGCTACTCTATGGTGAAGGCTCTCATGGAGTACGAAAAGGTGCCTG  
 GTATTTTGAATCACTGTGGATGAGATGCCACCAGATACCGCTGCCAGACTGGGTGGTCCCAGCCCCTA  
 GAAACCTTCAAGCTCCTTTAGGTTATGATAAAATTTAGCTATTCTTGGCGAGCAAAAAGGAACCAAGT  
 TCCACCAGTCCATTGGCAAACACTACTTCTGGCTATGGACAGGAGACGTCCTGGGATTTTATATTTAA  
 TCTTCTGAAGACACAGAGACAGCCAAAGTCAATGCCAGACACATACAAAGATAAGGCTTTGATAAAATTC  
 AAGAGTTATTTGTATTTTGGGAAAAAGACTTTGTGGATAAAGCAGAGAAGAGCCTGAAGCAGACTCCCC  
 ATAGTGAGGTTTCCATTAACCTTTGGACCATGCTTCAAGTATCCTCCGAAGGATCTCACTTACCGCCCTAT  
 GAGTGACATGGGCTGGGGCGCCGTGGTAGAGCACACCCTGGTGACGCTTGTATCACGTGGAGACAGAA  
 GTGGATGGGAGGCGCAGTCCCCATGGGAACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232869 representing NM\_001261832  
 Red=Cloning site Green=Tags(s)

MDTQAGSVDEENGRQLGEVELQCGICTKWFTADTFGIDTSSCLPFMTNYSFHCNVCHHSGNTYFLRKQAN  
 LKEMCLSALANL TWQSRQTDEHPKTMFSKDKDIIPFIDKYWECMTTRQRPKMTWPNNIVKTMskerDVF  
 LVKEHPDPGSKDPEEDYPKFGLLDQDL SNIGPAYDNQKQSSAVSTSGNLNGGIAAGSSGKGRGAKRKQQD  
 GGTTGTTKKARSDPLFSAQRLPPHGYPLEHPFNKDGyRYILAEPDPHAPDPEKLELDCWAGKPIPGDLYR  
 ACLYERVLLALHDRAPQLKISDDRLLTVVGEKGYSMVRASHGVRKGAwyFEITVDEMPPDTAARLgwsQPL  
 GNLQAPLGYDKFSYswRSKKGTKFhQSIGkHYSSgyQGdVlGFYINLPEDETETAKSLPDTYKDKALIKF  
 KSYLYFEKDFVDKAekSLKQTPHSEVsinFGPCFKYPPKDLTYRPMSDMGwAVVEHTLADVLyHVETE  
 VDGRRSPPWEP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

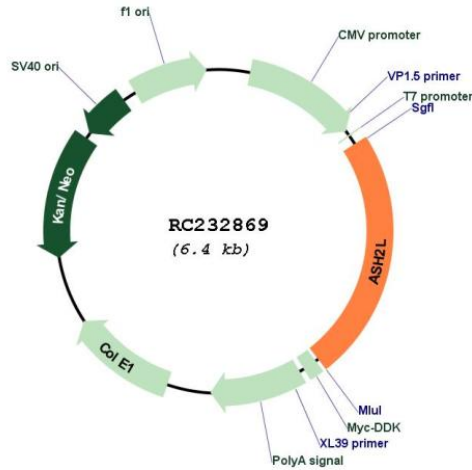
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001261832

**ORF Size:** 1503 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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>	<u>NM_001261832.1, NP_001248761.1</u>
<b>RefSeq Size:</b>	2956 bp
<b>RefSeq ORF:</b>	1506 bp
<b>Locus ID:</b>	9070
<b>UniProt ID:</b>	<u>Q9UBL3</u>
<b>Cytogenetics:</b>	8p11.23
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	56.9 kDa
<b>Gene Summary:</b>	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]