

Product datasheet for **RC238519**

ASH2L (NM_001282272) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASH2L (NM_001282272) 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



[View online »](#)

ORF Nucleotide Sequence:

>RC238519 representing NM_001282272
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCAACTACAGTTTTTCATTGCAACGCTGCCATCACAGTGGGAATACCTATTTCTCCGGAAGCAAG
 CAAACTTGAAGGAAATGTGCCTTAGTGCTTTGGCCAACCTGACATGGCAGTCCCGAACACAGGATGAACA
 TCCGAAGACAATGTTCTCCAAAGATAAGGATATTATACCATTATTGATAAATACTGGGAGTGCATGACA
 ACCAGACAGAGACCTGGGAAAATGACTTGGCCAAATAACATTGTTAAAACAATGAGTAAAGAAAGAGATG
 TATTCTTGGTAAAGGAACACCCAGATCCAGGCAGTAAAGATCCAGAAGAAGATTACCCCAAATTTGGACT
 TTTGGATCAGGACCTTAGTAACATTGGTCTGCTTATGACAACAAAAACAGAGCAGTGTGTGTCTACT
 AGTGGGAATTTAAATGGGGAAATGCAGCAGGAAGCAGCGGAAAAGGACGAGGAGCAAGCGCAAACAGC
 AGGATGGAGGGACCACAGGGACCACCAAGAAGGCCGGAGTGACCCTTTGTTTTCTGCTCAGCGCCTTCC
 CCCTCATGGCTACCCATTGGAACACCCGTTTAAACAAAGATGGCTATCGGTATATTCTAGCTGAGCCTGAT
 CCGCACGCCCTGACCCGAGAAGCTGGAACCTGACTGCTGGGCAGGAAAACCTATTTCTGGAGACCTCT
 ACAGAGCCTGCTGTATGAACGGTTTTGTTAGCCCTACATGATCGAGCTCCCCAGTTAAAGATCTCAGA
 TGACCGGCTGACTGTGGTTGGAGAGAAGGGCTACTCTATGGTGAGGGCCTCTCATGGAGTACGAAAAGGT
 GCCTGGTATTTTGAATCACTGTGGATGAGATGCCACCAGATACCGCTGCCAGACTGGGTTGGTCCCAGC
 CCCTAGGAAACCTTCAAGCTCCTTAGGTTATGATAAAATTTAGCTATTCTTGGCGGAGCAAAAAGGGAAC
 CAAGTTCACCACTCCATTGGCAAACACTACTCTTCTGGCTATGGACAGGGAGACGTCCTGGGATTTTAT
 ATTAATCTTCTGAAGACACAGAGACAGCAAGTCAATGGCAGACACATAACAAGATAAGGCTTTGATAA
 AATTCAAGAGTTATTTGTATTTTGGAGAAAAGACTTTTGGTAAAGCAGAGAAGAGCCTGAAGCAGAC
 TCCCATAGTGAGATAATTTTTATAAAAATGGTGTCAATCAAGGTGTGGCTTACAAAGATATTTTTGAG
 GGGTTTTACTTCCAGCCATCTCACTGTACAAGAGCTGCACGTTTTCCATTAACCTTTGGACCATGCTTCA
 AGTATCTCCGAAGGATCTCACTTACCGCCTATGAGTGACATGGGCTGGGGCGCCGTGGTAGAGCACAC
 CCTGGCTGACGCTTGTATCACGTGGAGACAGAAGTGGATGGGAGGCGCAGTCCCCCATGGGAACCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238519 representing NM_001282272
 Red=Cloning site Green=Tags(s)

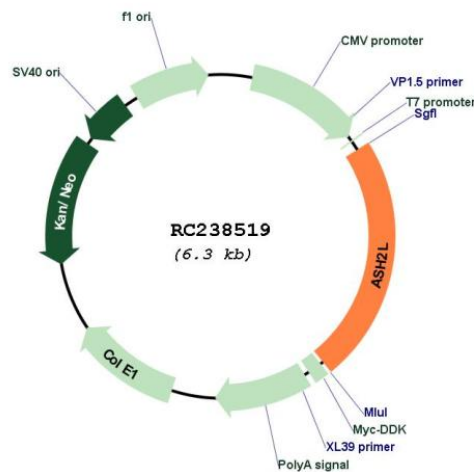
MTNYSFHCNVCHSGNTYFLRKQANLKEMCLSALANLTWQSRTQDEHPKTMFSKDKDIIPFIDKYWECMT
 TRQRPGKMTWPNNIVKTMKERDVFLVKEHPDPGSKDPEEDYPKFGLLDQDL SNIGPAYDNQKQSSAVST
 SGNLNGGIAAGSSGKGRGAKRKQDGGTTGTTKARSPLFSAQRLPPHGYPLEHPFNKDGRYRILAEPD
 PHAPDPEKLELDCWAGKPIPGDL YRACLYERVLALHDRAPQLKISDDRLLTVVGEKGYSMVRASHGVRKG
 AWYFEITVDEMPDPTAARLGWSQPLGNLQAPLGYDKFSYSWRSKKGTKFHQSIGKHYSSGYGQDVLGFY
 INLPEDTETAKSLPDTYKDKALIKFKSYLYFEEDFVDKAEKSLKQTPHSEIIFYKNGVNGVAYKDIFE
 GYVFPATISLYKSCTVSIINFGPCFKYPPKDLTYRPMSDMGWAVVEHTLADVLYHVETEVDGRRSPWPPEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_001282272

ORF Size:

1467 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).

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:	<u>NM_001282272.1</u> , <u>NP_001269201.1</u>
RefSeq Size:	2808 bp
RefSeq ORF:	1470 bp
Locus ID:	9070
Cytogenetics:	8p11.23
Protein Families:	Druggable Genome, Transcription Factors
MW:	55.8 kDa
Gene Summary:	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]