

Product datasheet for **RC225918**

ASH2L (NM_001105214) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASH2L (NM_001105214) 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:

>RC225918 representing NM_001105214
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATACTCAGGCGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGGTGAGGTAGAGCTGCAATGTG
 GGATTTGTACAAAATGGTTCACGGCTGACACATTTGGCATAGATACCTCATCCTGTCTACCTTTTCATGAC
 CAACTACAGTTTTTCATTGCAACGCTGCCATCACAGTGGGAATACCTATTTCTCCGGAAGCAAGCAAAC
 TTGAAGGAAATGTGCCTTAGTGCTTTGGCCAACCTGACATGGCAGTCCCGAACACAGGATGAACATCCGA
 AGACAATGTTCTCAAAGATAAGGATATTATACCATTTATTGATAAACTGGGAGTGCATGACAACCGAG
 ACAGAGACCTGGGAAAATGACTTGGCCAATAACATTGTTAAAACAATGAGTAAAGAAAGAGATGTATTC
 TTGGTAAAGAACACCCAGATCCAGGCAGTAAAGATCCAGAAGAAGATTACCCCAAATTTGGACTTTTGG
 ATCAGGACCTTAGTAACATTGGTCTGCTTATGACAACAAAAACAGAGCAGTGTGTGTCTACTAGTGG
 GAATTTAAATGGGGGAATTGCAGCAGGAAGCAGCGGAAAAGGACGAGGAGCAAGCGCAAACAGCAGGAT
 GGAGGGACCACAGGGACCACCAAGAAGGCCCGGAGTGACCCTTTGTTTTCTGCTCAGCGCCTTCCCCTC
 ATGGCTACCCATTGGAACACCCGTTTAAACAAAGATGGCTATCGGTATATTCTAGCTGAGCCTGATCCGCA
 CGCCCCGACCCCGAGAAGCTGGAACCTTGACTGCTGGGCAGGAAAACCTATTCTGGAGACCTCTACAGA
 GCCTGCTTGTATGAACGGTTTTGTTAGCCCTACATGATCGAGCTCCCGAGTTAAAGATCTCAGATGACC
 GGCTGACTGTGGTTGGAGAGAAGGGCTACTCTATGGTGAAGGCTCTCATGGAGTACGAAAAGGTGCCTG
 GTATTTTGAATCACTGTGGATGAGATGCCACCAGATACCGCTGCCAGACTGGGTGGTCCCAGCCCTA
 GAAACCTTCAAGCTCCTTTAGGTTATGATAAAATTTAGCTATTCTTGGCGAGCAAAAAGGAACCAAGT
 TCCACCAGTCCATTGGCAAACACTACTTCTGGCTATGGACAGGAGACGTCCTGGGATTTTATATTTAA
 TCTTCTGAAGACACAGAGACAGCAAGTCAATGGCAGACACATACAAAGATAAGGCTTTGATAAAATTC
 AAGAGTTATTTGTATTTTGGGAAAAAGACTTTGTGGATAAAGCAGAGAAGAGCCTGAAGCAGACTCCCC
 ATAGTGAGATAATATTTTATAAAAATGGTGTCAATCAAGGTGTGGCTTACAAAGATATTTTGGGGGGT
 TTACTTCCAGCCATCTCACTGTACAAGAGCTGCACGGTTCCATTAACCTTTGGACCATGCTTCAAGTAT
 CCTCCGAAGGATCTCACTTACCGCCCTATGAGTGACATGGGCTGGGGCGCCGTGGTAGAGCACACCTGG
 CTGACGCTTGTATCACGTGGAGACAGAAGTGGATGGGAGGCGCAGTCCCCATGGGAACCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225918 representing NM_001105214
 Red=Cloning site Green=Tags(s)

MDTQAGSVDEENGRQLGEVELQCGICTKWFTADTFGIDTSSCLPFMTNYSFHCNVCHHSNGNTYFLRKQAN
 LKEMCLSALANL TWQSRQDEHPKTMFSKDKDIIPFIDKYWECMTTRQRP GKMTWPNNIVKTM SKERDVF
 LVKEHPDPGSKDPEEDYPKFGLLDQDL SNIGPAYDNQKQSSAVSTSGNLNGGIAAGSSGKGRGAKRKQDD
 GGTTGTTKKARSDPLFSAQRLPPHGYPLEHPFNKDG YRYILAEPDPHAPDPEKLELDCWAGKPIPGDL YR
 ACLYERVLLALHDRAPQLKISDDRLLTVVGEKGYSMVRASHGVRKGAWYFEITVDEMP PDTAARLGWSQPL
 GNLQAPLGYDKFSYSWRSKKGTQKFKHQSIGKHYSSGYGQGDVLFYINLPEDTETAKSLPDTYKDKALIKF
 KSYLYFEEKDFVDKAEKSLKQTPHSEIIFYKNGV NQGVAYKDI FEGVYFPAISLYKSCTV SINFGPCFKY
 PPKDLTYRPMDSMGWAVVEHTLADVLVHVETEVDGRRSPPWEP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

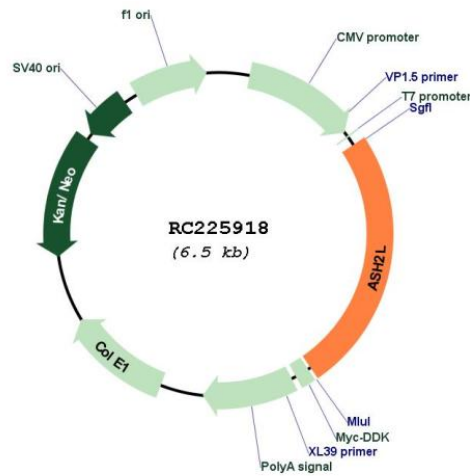
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001105214
ORF Size:	1602 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:	NM_001105214.2 , NP_001098684.1
RefSeq Size:	3055 bp
RefSeq ORF:	1605 bp
Locus ID:	9070
UniProt ID:	Q9UBL3
Cytogenetics:	8p11.23
Protein Families:	Druggable Genome, Transcription Factors
MW:	60.2 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]