

Product datasheet for **MC228209**

Ash2l (NM_001286207) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ash2l (NM_001286207) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ash2l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228209 representing NM_001286207
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATACCCAGGCGGGCTCTGTGGATGAGGAGAATGGGCGGCAGTTGGGAGAAGTGGAGTGCAGTGTG
 GGATATGTACAAAATGGTTCACCGCTGACACCTTTGGAATAGACACGTCGTCATGTCTGCCTTTTATGAC
 CAACTACAGCTTCCATTGCAATGTGTGCCATCACAGTGGGAATACCTACTTTCTCCGGAAGCAAGCAAAT
 TAAAAAGAAATGTGCCTTAGTGCCTTGGCGAATTTGACGTGGCAGTCTCGAACACAGGATGAACATCCAA
 AAACCATGTTCTCCAAAGATAAGGATATTATACCATTTATTGATAAACTGGGAATGTATGACAACCGAG
 ACAGAGACCTGGAAAAATGACTTGGCCCAATAACATTGTCAAACAATGAGTAAGGAAAGAGATGTGTTT
 TTGGTAAAGGAACACCCTGACCCAGGAAGCAAAGACCCAGAAGAAGATTACCCCAAGTTTGGACTTTTGG
 ATCAGGATCTTAGTAATATTGGTCTGCTTATGACAACCGAAACAAAGCAGTGTGTGTCTGTAGTGG
 GAACCTAAATGGGGGATCGCAGCCGGAAGCAGTGGGAAAGGAAGAGGCAAGCGTAAGCAGCAAGAT
 GGAGGGACAACAGGGACCACCAAGAAGGCCAGAAGTGATCCTTTATTTCTGCTCAGCGTCTCCCTCCTC
 ATGGCTATCCTTTGGAACATCCATTTAACAAAGATGGCTATCGGTATATTCTTGCTGAGCCCGATCCTCA
 TGCCCCGACCCGGAGAAGCTTGAACCTTGACTGCTGGGCGGAAAGCCTATTCTGGAGACCTTTACAGA
 GCCTGCTTATATGAACGAGTCTTGTAGCCCTACATGATCGAGCTCCCCAGTTAAAGATCTCTGATGACC
 GGCTGACCGTGGTTGGAGAGAAGGGCTACTCCATGGTCCGGGCCCTCATGGGGTACGCAAAGGGGCCTG
 GTACTTTGAAATCACTGTGGATGAGATGCCCCAGACTGCTGCCAGGCTGGGCTGGTCCCAGCCCTTA
 GGTAACCTCCAAGCTCCCTTAGGCTATGATAAGTTTAGCTATTCTTGGCGGAGCAAGAAAGGCACCAAGT
 TCCACGATCCATTGGCAAGCACTATTCGCTGGCTACGGACAAGGGGACGTCCTAGGTTCTATATCAA
 CCTTCCCGAAGACACAGAGACAGCAAGTCACTGCGGACACCTACAAAGATAAGGCTTTGATAAAGTTT
 AAGAGTTATTTGTATTTTGAAGAAAAAGACTTTGTGGACAAGCAGAGAAGGCCTAAAAACAGCCCCC
 ATAGTGAGATAATATTTATAAAAATGGTGTCAATCAGGGTGTGGCTTACAGAGATATTTTGAAGGAGT
 TTACTTCCAGCCATCTCACTGTACAAGAGCTGCACGGTTCCATTAACCTTTGGACCATCCTTCAAATAC
 CCTCAAAGGATCTCACGTACCACCTATGAGTGACATGGGCTGGGGCGCTGTGGTAGAACACACTGG
 CTGATGTTTTGTATCACGTGGAGACAGAAGTGGACGGAAGACGTAGTCCACCCTGGGAACCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001286207
- Insert Size:** 1605 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:

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_001286207.1](#), [NP_001273136.1](#)

RefSeq Size: 3186 bp

RefSeq ORF: 1605 bp

Locus ID: 23808

Cytogenetics: 8 A2

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR, has multiple differences in the coding region, and initiates translation at a downstream start codon, compared to variant 4. The resulting isoform (b) has, among multiple differences, a shorter N-terminus compared to isoform d. This variant (3), as well as variant 2, encodes isoform b.