

## Product datasheet for **MR230420**

### Ash2l (NM\_001286207) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR230420 representing NM\_001286207  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATACCCAGGCGGGCTCTGTGGATGAGGAGAATGGGCGGCAGTTGGGAGAAGTGGAGTGCAGTGTG  
 GGATATGTACAAAATGGTTCACCGCTGACACCTTTGGAATAGACACGTCGTCATGCTGCCTTTTATGAC  
 CAACTACAGCTTCCATTGCAATGTGTGCCATCACAGTGGGAATACCTACTTTCTCCGGAAGCAAGCAAAT  
 TAAAAAGAAATGTGCCTTAGTGCCTTGGCGAATTTGACGTGGCAGTCTCGAACACAGGATGAACATCCAA  
 AAACCATGTTCTCAAAGATAAGGATATTATACCATTTATTGATAAACTGGGAATGTATGACAACCGAG  
 ACAGAGACCTGGAAAAATGACTTGGCCCAATAACATTGTCAAACAATGAGTAAGGAAAGAGATGTGTTT  
 TTGGTAAAGGAACACCCTGACCCAGGAAGCAAAGACCCAGAAGAAGATTACCCCAAGTTTGGACTTTTGG  
 ATCAGGATCTTAGTAATATTGGTCTGCTTATGACAACAGAAACAAAGCAGTGTGTGTCTGTAGTGG  
 GAACCTAAATGGGGGATCGCAGCCGGAAGCAGTGGGAAAGGAAGAGGCAAGCGTAAGCAGCAAGAT  
 GGAGGGACAACAGGGACCACCAAGAAGGCCAGAAGTGATCCTTTATTTCTGCTCAGCGTCTCCCTCCTC  
 ATGGCTATCCTTTGGAACATCCATTTAACAAAGATGGCTATCGGTATATTCTTGCTGAGCCCGATCCTCA  
 TGCCCCGACCCGGAGAAGCTTGAACCTGACTGCTGGGCGGAAAGCCTATTCTTGAGACCTTTACAGA  
 GCCTGCTTATATGAACGAGTCTTGTTAGCCCTACATGATCGAGCTCCCCAGTTAAAGATCTCTGATGACC  
 GGCTGACCGTGGTTGGAGAGAAGGGCTACTCCATGGTCCGGGCCTCTCATGGGGTACGCAAAGGGGCTG  
 GTACTTTGAAATCACTGTGGATGAGATGCCCCAGACACTGCTGCCAGGCTGGGCTGGTCCCAGCCCTTA  
 GGTAACCTCCAAGCTCCCTTAGGCTATGATAAGTTTAGCTATTCTTGGCGGAGCAAGAAAGGCACCAAGT  
 TCCACCACTCCATTGGCAAGCACTATTCGCTCGGCTACGGAAGGGGACGTCCTAGGTTCTATATCAA  
 CCTTCCCGAAGACACAGAGACAGCCAAGTCACTGCCGGACACCTACAAAGATAAGGCTTTGATAAAGTTT  
 AAGAGTTATTTGTATTTTGAAGAAAAAGACTTTGTGGACAAGCAGAGAAGGCCTAAAAACAGCCCCC  
 ATAGTGAGATAATATTTTATAAAAATGGTGTCAATCAGGGTGTGGCTTACAGAGATATTTTGAAGGAGT  
 TTACTTCCAGCCATCTCACTGTACAAGAGCTGCACGGTTCCATTAACCTTTGGACCATCCTTCAAATAC  
 CCTCAAAGGATCTCACGTACCACCTATGAGTGACATGGGCTGGGGCGCTGTGGTAGAACACACTGG  
 CTGATGTTTTGTATCACGTGGAGACAGAAGTGGACGGAAGACGTAGTCCACCTGGGAACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230420 representing NM\_001286207  
 Red=Cloning site Green=Tags(s)

MDTQAGSVDEENGRQLGEVELQCGICTKWFTADTFGIDTSSCLPFMTNYSFHCNVCHHSNGNTYFLRKQAN  
 LKEMCLSALANL TWQSRQTDEHPKTMFSKDKDIIPFIDKYWECMTTRQRP GKMTWPNNIVK TMSKERDVF  
 LVKEHPDPGSKDPEEDYPKFGLLDQDLSNIGPAYDNQKQSSAVSASGNLNGGIAAGSSGKGRGAKRKQD  
 GGTGTGTTKARS DPLFSAQRLPPHGYPLEHPFNKDG YRYILAEPDPHAPDPEKLELDCWAGKPIPGDLYR  
 ACLYERVLLALHDRAPQLKISDDRLTVVGEKGYSMVRASHGVRKGAWYFEITVDEMPDPTAARLGWSQPL  
 GNLQAPLGYDKFSYSWRSKKGTKFHQSIGKHYSSGYQGVDLGFYINLPEDTETAKSLPDTYKDKALIKF  
 KSYLYFEEKDFVDKAEKSLKQTPHSEIIIFYKNGV NQGVAYRDI FEGVYFPAISLYK SCTV SINFGPSFKY  
 PPKDLTYHPMSDMGWGAVVEHTLADVLVHVETEVDGRRSPPWEP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_001286207

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:

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

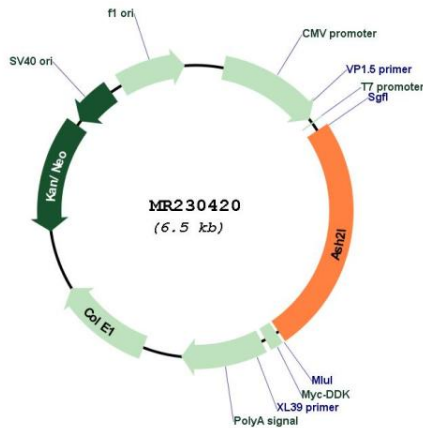
Locus ID: 23808

Cytogenetics: 8 A2

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

**Product images:**



Circular map for MR230420