

Product datasheet for **MR209616**

Ash2l (NM_001080793) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ash2l (NM_001080793) 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:

>MR209616 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCTGGAGCGGGTCTGGTCCGGGAGTCAGCGCCGGCCCTGGTCCCGAGCCGCTGCAAGTG
 CCAACAACGGCGGAGGACCGAGAGACAGACCGGGTGGCCGGGGGCTGGCGAGGGCCGTCAGCCGCCCC
 GGGAGCGGAGCCAGCTCCGGAGAGGCCAAAAGTGGGGATGCAAACCTGGTTGATGTAAGTGGTCTGGAG
 ACAGAATCTTCTAATGAAAAAGATACTTTGGAAGTACCGGAGACACTTCAGAAGTATGATGATACCCAGG
 CGGGCTCTGTGGATGAGGAGAATGGCGGCAGTTGGGAGAAGTGGAGTTGCAGTGTGGGATGTACAAA
 ATGTTTACCCTGACACCTTTGGAATAGACACGTCGTCATGTCTGCCTTTATGACCACTACAGCTTC
 CATTGCAATGTGTCCATCACAGTGGGAATACCTACTTTCTCCGAAGCAAGCAAATTTAAAGAAATGT
 GCCTTAGTGCCTTGGCGAATTTGACGTGGCAGTCTCGAACACAGGATGAACATCCAAAACCATGTTCTC
 CAAAGATAAGGATATTATACCATTTATTGATAAACTGGGAATGTATGACAACCAGACAGAGACCTGGA
 AAAATGACTTGGCCCAATAACATTGTCAAAAACAATGAGTAAGGAAAGAGATGTGTTCTTGGTAAAGGAAC
 ACCCTGACCCAGGAAGCAAAGACCCAGAAGAAGATTACCCCAAGTTTGGACTTTTGGATCAGGATCTTAG
 TAATATTGGTCTGCTTATGACAACCAGAAAACAAGCAGTGTGTGTCTGCTAGTGGAACTAAATGGG
 GGGATCGCAGCCGGAAGCAGTGGGAAAGGAAGAGGAGCAAGCGTAAGCAGCAAGATGGAGGGACAACAG
 GGACCACCAAGAAGGCCAGAAGTATCCTTTATTTCTGCTCAGCGTCTCCCTCCTCATGGCTATCCTTT
 GGAACATCCATTTAAACAAGATGGCTATCGGTATATTCTGCTGAGCCCGATCCTCATGCCCCGACCCG
 GAGAAGCTTGAACCTGACTGCTGGCGGGAAAGCCTATTCCTGGAGACCTTTACAGAGCCGCTGCTTATATG
 AACGAGTCTTGTAGCCCTACATGATCGAGCTCCCAAGTAAAGATCTCTGATGACCCGGTACCTGATG
 TGGAGAGAAGGGCTACTCCATGGTCCGGCCTCTCATGGGGTACGCAAAGGGCCCTGGTACTTTGAAATC
 ACTGTGGATGAGATGCCCCAGACACTGCTGCCAGGCTGGGCTGGTCCCAGCCCTTAGGTAACTCCAAG
 CTCCTTAGGCTATGATAAGTTTAGCTATTCTTGGCGGAGCAAGAAAGGCACCAAGTTCCACCAGTCCAT
 TGGCAAGCACTATTCGTCTGGCTACGGACAAGGGGACGCTCCTAGGGTTCTATATCAACCTCCCAGAGC
 ACAGAGACAGCCAAGTCACTGCCGACACTCAAAGATAAGGCTTTGATAAAGTTCAAGAGTTATTTGT
 ATTTTGAAGAAAAGACTTTGTGGACAAAGCAGAGAAGAGCCTAAAACAGACCCCATAGTGAGATAAT
 ATTTTATAAAAAAGGTGTCAATCAGGGTGTGGCTTACAGAGATATTTTGAAGGAGTTACTTCCCAGCC
 ATCTCACTGTACAAGAGCTGCACGGTTCCATTAACCTTTGGACCATCCTCAAATACCCTCAAAGGATC
 TCACGTACCACCTATGAGTGACATGGGCTGGGGCGCTGTGGTAGAACACACACTGGCTGATGTTTTGTA
 TCACGTGGAGACAGAAGTGGACGGAAGCAGTAGTCCACCCTGGGAACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209616 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAGAGPGPGVSAGPGGAAASATTAEDRETEPVAAGAGEGPSAAPGAEPSSGEAESGDANLVDVSGLE
 TESSNGKDTLEGTGDTSEVMDTQAGSVDEENRQLGEVELQCGICTKWFTADTFGIDTSSCLPFMTNYSF
 HCNVCHSGNTYFLRKQANLKEMCLSALANLTWQSRQDEHPKTMFSKDKDIIPFIDKYWECMTTRQRP
 KMTWPNNIIVKTMskerDVFVKEHPDPGSKDPEEDYPKFLLDQDL SNIGPAYDNQKQSSAVSASGNLNG
 GIAAGSSGKGRGAKRKQDGGTGTGTTKARSPLFSAQRLPPHGYPLEHPFNKDG YRYILAEPDPHAPDP
 EKLELDCWAGKPIPGDL YRACL YERVLLALHDRAPQLKISDDRLLTVVGEKGYSMVRASHGVRKGAWYFEI
 TVDEMPPDTAARLGWSQPLGNLQAPLGYDKFSYSWRSKKGTKFHQSIGKHYSSGYQGDLGFYINLPED
 TETA KSLPDTYKDKALIKFKSYLYFEEKDFVDKAEKSLKQTPHSEIIFYKNGVNVQVAYRDI FEGVYFPA
 ISLYKSCTVSI NFGPSFKYPPKDLTYHPMSDMGWGAVVEHTLADVLYHVETEVDGRRSPWP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001080793

ORF Size: 1872 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

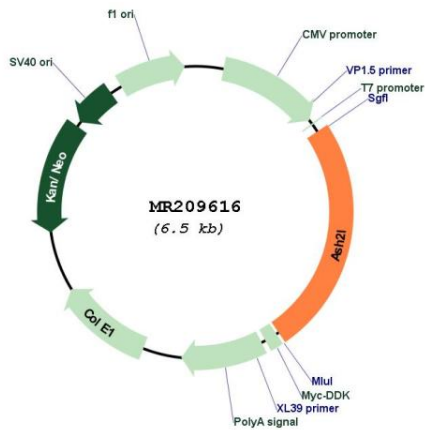
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001080793.1](#), [NM_001080793.2](#), [NP_001074262.1](#)
RefSeq Size: 3213 bp
RefSeq ORF: 1605 bp
Locus ID: 23808
Cytogenetics: 8 A2
MW: 68.3 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 MR209616