

Product datasheet for **RG238519**

ASH2L (NM_001282272) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASH2L (NM_001282272) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ASH2L
Synonyms:	ASH2; ASH2L1; ASH2L2; Bre2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238519 representing NM_001282272.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCAACTACAGTTTTTCATTGCAACGCTGCCATCACAGTGGGAATACCTATTTCTCCGGAAGCAA
GCAAACTTGAAGGAAATGTCCCTTAGTGCTTTGGCCAACCTGACATGGCAGTCCCGAACACAGGATGAA
CATCCGAAGACAATGTTCTCCAAAGATAAGGATATTATACCATTATTGATAAACTGGGAGTGCAATG
ACAACCAGACAGAGACCTGGGAAAATGACTTGGCCAAATAACATTGTTAAAAACAATGAGTAAAGAAAGA
GATGTATTCTTGGTAAAGGAACACCCAGATCCAGGCAGTAAAGATCCAGAAGAAGATTACCCCAAATTT
GGACTTTTGGATCAGGACCTTAGTAACATTGGTCTGCTTATGACAACAAAAACAGAGCAGTGTGTG
TCTACTAGTGGGAATTTAAATGGGGGAATTGCAGCAGGAAGCAGCGGAAAAGGACGAGGAGCCAAGCGC
AAACAGCAGGATGGAGGGACCACAGGGACCACCAAGAAGGCCCGGAGTGACCCTTTGTTTTCTGCTCAG
CGCCTTCCCCTCATGGCTACCCATTGGAACCCCGTTTAAACAAGATGGCTATCGGTATATTCTAGCT
GAGCCTGATCCGCACGCCCTGACCCCGAGAAGCTGGAACCTTACTGCTGGGCAGGAAAACCTATTCCT
GGAGACCTCTACAGAGCCTGCTTGTATGAACGGGTTTTGTAGCCCTACATGATCGAGCTCCCCAGTTA
AAGATCTCAGATGACCGGCTGACTGTGGTTGGAGAGAAGGGCTACTCTATGGTGAGGGCCTCTCATGGA
GTACGAAAGGTGCTTGGTATTTTAAAATCACTGTGGATGAGATGCCACCAGATACCGCTGCCAGACTG
GGTTGGTCCCAGCCCCTAGGAAACCTTCAAGCTCCTTTAGGTTATGATAAATTTAGCTATTTCTGGCGG
AGCAAAAAGGGAACCAAGTTCACCAGTCCATTGGCAACACTACTCTTCTGGCTATGGACAGGGAGAC
GTCCTGGGATTTTATTAATCTTCTGAAGACACAGAGACAGCCAAGTCATTGCCAGACACATAAAA
GATAAGGCTTTGATAAAATCAAGAGTTATTTGTATTTTGAAGAAAAGACTTTGTGGATAAAGCAGAG
AAGAGCCTGAAGCAGACTCCCATAGTGAGATAATTTTATAAAAATGGTGTCAATCAAGTGTGGCT
TACAAAGATATTTTTGAGGGGTTTACTTCCCAGCCATCTCACTGTACAAGAGCTGCACGGTTTCCATT
AACTTTGGACCATGCTTCAAGTATCCTCCGAAGGATCTCACTTACCGCCCTATGAGTGACATGGGCTGG
GGCGCCGTGGTAGAGCACACCCTGGCTGACGTCTGTATCACGTGGAGACAGAAGTGGATGGGAGGCGC
AGTCCCCCATGGGAACCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238519
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTNYSFHCNVCHSGNTYFLRKQANLKEMCLSALANLTWQSRTQDEHPKTMFSKDKDIIPFIDKYWECM
TTRQRP GKMTWPNNIVKTM SKERDVFLVKEHPDPGSKDPEEDYPKFGLLDQDL SNIGPAYDNQKQSSAV
STSGNLNGGIAAGSSGKGRGAKRKQDGGTTGTTKARSDFLSAQRLPPHGYPLEHPFNKDG YRYILA
EPDPHAPDPEKLELDCWAGKPIPGDLYRACLYERVLLALH DRAPQLKISDDR LTVVGEKGYSMVRASHG
VRKGAWYFEITVDEMPD TAARL GWSQPLGNLQAPLGYDKF SYSWRSKKGTKFHQSIGKHYSSGYGQGD
VLGFYINLPEDTETAKSLPDTYKDKALIKFKSYLYFEEDFVDKAEKSLKQTPHSEIIF YKNGVNQGVA
YKDI FEGVYFPAISLYKSCTV SINFGPCFKYPPKDLTYRPM SMDMGWAVVEHTLADVL YHVETEVDGRR
SPPWEP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

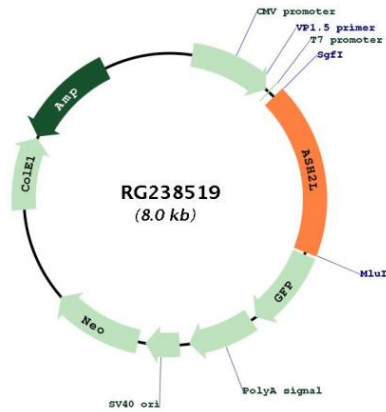
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


- 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).
- RefSeq:** [NM_001282272.1](#), [NP_001269201.1](#)
- 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]

Product images:



Circular map for RG238519