

Product datasheet for **RG232869**

ASH2L (NM_001261832) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASH2L (NM_001261832) 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:

>RG232869 representing NM_001261832
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATACTCAGGCGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGGTGAGGTAGAGCTGCAATGTG
 GGATTTGTACAAAATGGTTCACGGCTGACACATTTGGCATAGATACCTCATCCTGTCTACCTTTTCATGAC
 CAACTACAGTTTTTCATTGCAACGCTGCCATCACAGTGGGAATACCTATTTCTCCGGAAGCAAGCAAAC
 TTGAAGGAAATGTGCCTTAGTGCTTTGGCCAACCTGACATGGCAGTCCCGAACACAGGATGAACATCCGA
 AGACAATGTTCTCAAAGATAAGGATATTATACCATTTATTGATAAACTACTGGGAGTGCATGACAACCGAG
 ACAGAGACCTGGGAAAATGACTTGGCCAAATAACATTGTTAAAACAATGAGTAAAGAAAGAGATGTATTC
 TTGGTAAAGAACACCCAGATCCAGGCAGTAAAGATCCAGAAGAAGATTACCCCAAATTTGGACTTTTGG
 ATCAGGACCTTAGTAACATTGGTCTGCTTATGACAACAAAAACAGAGCAGTGTGTCTACTAGTGG
 GAATTTAAATGGGGGAATTGCAGCAGGAAGCAGCGGAAAAGGACGAGGAGCAAGCGCAAACAGCAGGAT
 GGAGGGACACAGGGACCACCAAGAAGGCCCGGAGTGACCCTTTGTTTTCTGCTCAGCGCCTTCCCCCTC
 ATGGCTACCCATTGGAACACCCGTTTAAACAAAGATGGCTATCGGTATATTCTAGCTGAGCCTGATCCGCA
 CGCCCCTGACCCCGAGAAGCTGGAACCTTGACTGCTGGGCAGGAAAACCTATTCTGGAGACCTCTACAGA
 GCCTGCTTGATGAACGGGTTTTGTTAGCCCTACATGATCGAGCTCCCGAGTTAAAGATCTCAGATGACC
 GGCTGACTGTGGTTGGAGAGAAGGGCTACTCTATGGTGAAGGCTCTCATGGAGTACGAAAAGGTGCCTG
 GTATTTTGAATCACTGTGGATGAGATGCCACCAGATACCGCTGCCAGACTGGGTGGTCCCAGCCCTA
 GGAAACCTTCAAGCTCCTTTAGGTTATGATAAAATTTAGCTATTCTTGGCGGAGCAAAAAGGAACCAAGT
 TCCACCAGTCCATTGGCAAACACTACTCTTCTGGCTATGGACAGGAGACGTCCTGGGATTTTATATTA
 TCTTCCTGAAGACACAGAGACAGCAAGTCAATGCCAGACACATACAAAGATAAGGCTTTGATAAAATTC
 AAGAGTTATTTGATTTTGGGAAAAAGACTTTGTGGATAAAGCAGAGAAGACCTGAAGCAGACTCCCC
 ATAGTGAGGTTTCCATTAACCTTTGGACCATGCTTCAAGTATCCTCCGAAGGATCTCACTTACCGCCCTAT
 GAGTGACATGGGCTGGGGCGCCGTGGTAGAGCACACCCTGGTGACGCTTGTATCACGTGGAGACAGAA
 GTGGATGGGAGGCGCAGTCCCCATGGGAACCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232869 representing NM_001261832
 Red=Cloning site Green=Tags(s)

MDTQAGSVDEENGRQLGEVELQCGICTKWFTADTFGIDTSSCLPFMTNYSFHCNVCHHSNGNTYFLRKQAN
 LKEMCLSALANL TWQSRQTDEHPKTMFSKDKDIIPFIDKYWECMTTRQRP GKMTWPNNIVKTM SKERDVF
 LVKEHPDPGSKDPEEDYPKFGLLDQDL SNIGPAYDNQKQSSAVSTSGNLNGGIAAGSSGKGRGAKRKQD
 GGTTGTTKKARSDPLFSAQRLPPHGYPLEHPFNKDG YRYILAEPDPHAPDPEKLELDCWAGKPIPGDLYR
 ACLYERVLLALHDRAPQLKISDDRLLTVVGEKGYSMVRASHGVRKGAWYFEITVDEMPDPTAARLGWSQPL
 GNLQAPLYDKFSYSWRSKKGTKFHQSIGKHYSSGYQGQDVLGFYINLPEDTETAKSLPDTYKDKALIKF
 KSYLYFEEKDFVDKAESLQKTPHSEVSI NFGPCFKYPPKDLTYRPMSDMGWAVVEHTLADVLVHVETE
 VDGRRSPWEP

TRTRPLE – GFP Tag – V

Restriction Sites:

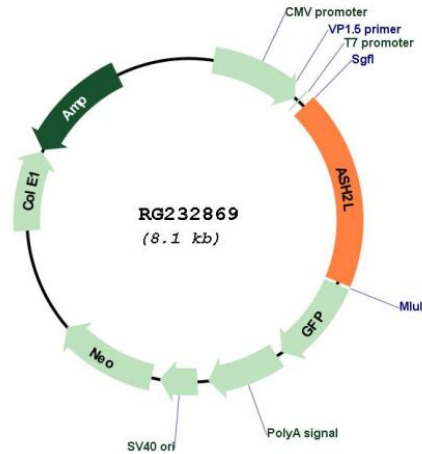
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001261832

ORF Size: 1503 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:	<u>NM_001261832.1, NP_001248761.1</u>
RefSeq Size:	2956 bp
RefSeq ORF:	1506 bp
Locus ID:	9070
UniProt ID:	<u>Q9UBL3</u>
Cytogenetics:	8p11.23
Protein Families:	Druggable Genome, Transcription Factors
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]