

Product datasheet for **RG215552**

ASH2L (NM_004674) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | ASH2L (NM_004674) 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:

>RG215552 representing NM_004674
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCAGGAGCAGGACCTGGCCAGGAAGCGGGTCCGGGCTGGCCAGGAGCGGTGCGAAATG
 CAACAGGGGCAGAAGAGGGGAGATGAAGCCGGTGGCAGCGGGAGCAGCCGCTCCTCCTGGAGAGGGAT
 CTCTGCTGCTCCGACAGTTGAGCCAGTTCCGGGAGGCTGAAGCGGGGAGGCAAACCTTGGTCGATGTA
 AGCGGTGGCTTGAGACAGAATCATCTAATGGAAGATACACTAGAAGGTGCTGGGATACATCAGAGG
 TGATGGATACTCAGGCGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGGTGAGGTAGAGCTGCAATG
 TGGGATTTGTACAAAATGGTTCACGGCTGACACATTTGGCATAGATACCTCATCTGTCTACCTTTCATG
 ACCAACTACAGTTTTTCATTGCAACGTCTGCCATCACAGTGGGAATACCTATTTCTCCGGAAGCAAGCAA
 ACTTGAAGGAAATGTGCCTTAGTGCTTTGGCCAACTGACATGGCAGTCCCGAACACAGGATGAACATCC
 GAAGACAATGTTCTCAAAGATAAGGATATTATACCATTTATTGATAAACTACTGGGAGTGCATGACAACC
 AGACAGAGACCTGGGAAAATGACTTGGCCAAAATAACATTGTTAAAACAATGAGTAAAGAAAGAGATGTAT
 TCTTGGTAAAGGAACACCCAGATCCAGGAGTAAAGATCCAGAAGAAGATTACCCCAAATTTGGACTTTT
 GGATCAGGACCTTAGTAACATTGGTCTGCTTATGACAACAAAAACAGAGCAGTGTGTCTACTAGT
 GGGAAATTTAAATGGGGGAATTGCAGCAGGAAGCAGCGAAAAGGACGAGGAGCCAAGCGCAAACAGCAGG
 ATGGAGGGACCACAGGGACCACCAAGAAGGCCCGGAGTGACCCCTTTGTTTTCTGCTCAGCGCCTTCCCC
 TCATGGCTACCCATTGGAACACCCGTTTAAACAAGATGGCTATCGGTATATTCTAGCTGAGCCTGATCCG
 CACGCCCTGACCCGAGAAGCTGGAACCTTGACTGCTGGGAGGAAAACCTATTCTGGAGACCTCTACA
 GCGCTGCTTGTATGAACGGGTTTTGTTAGCCCTACATGATCGAGCTCCCAAGTTAAAGATCTCAGATGA
 CCGGCTGACTGTGGTTGGAGAGAAGGGCTACTCTATGGTGAGGGCCTCTCATGGAGTACGGAAGGGTGCC
 TGGTATTTTGAATCACTGTGGATGAGATGCCACCAGATACCGCTGCCAGACTGGTTGGTCCCAGCCCC
 TAGGAAACCTTCAAGCTCCTTTAGGTTATGATAAATTTAGCTATTCTTGGCGAGCAAAAAGGGAACCAA
 GTTCCACCAGTCCATTGGCAAACACTACTCTTCTGGCTATGGACAGGGAGACGTCTGGGATTTTATATT
 AATCTTCTGAAGACACAGAGACAGCCAAGTATTGCCAGACACATACAAAGATAAGGCTTTGATAAAAT
 TCAAGAGTTATTTGATTTTGAAGAAAAGACTTTGTGGATAAAGCAGAGAAGAGCCTGAAGCAGACTCC
 CCATAGTGAGATAATATTTTAAAAATGGTGTCAATCAAGGTGTGGCTTACAAAGATATTTTGAAGGG
 GTTTACTTCCCAGCCATCTCACTGTACAAGAGCTGCACGGTTTCCATTAACCTTTGGACCATGCTTCAAGT
 ATCCTCCGAAGGATCTCACTTACCGCCCTATGAGTGACATGGGCTGGGGCGCCGTGGTAGAGCACACCCCT
 GGCTGACGTCTTGTATACGTGGAGACAGAAGTGGATGGGAGGCGCAGTCCCCCATGGGAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215552 representing NM_004674
 Red=Cloning site Green=Tags(s)

MAAAGAGPGQEAGAGPGPGAVANATGAEEGEMKPAAGAAAPPGEGISAAPTVEPSSGEAEGGEANLVDV
 SGGLETESSNGKDTLEGAGDTSEVMDTQAGSVDEENGRQLGEVELQCGICTKWFTADTFGIDTSSCLPFM
 TNYSFHCNVCHSGNTYFLRKQANLKEMCLSALANLTWQSRQDEHPKTMFSKDKDIIPFIDKYWECMTT
 RQRPGKMTWPNNIVKTMskerDVFLVKEHPDPGSKDPEEDYPKFLLDQDL SNIGPAYDNQKQSSAVSTS
 GNLNGGIAAGSSGKGRGAKRKQDGGTTGTTKARSDFL SAQRLPPHGYPLEHPFNKDG YRYILAEPDP
 HAPDPEKLELDCWAGKPIPGDL YRACL YERVLLALHDRAMQLKISDDRLLTVVGEKGYSMVRASHGVRKGA
 WYFEITVDEMPDPTAARLGWSQPLGNLQAPLGYDKF SYSWRSKKGTFKHQSIGKHYSSGYQGQDVLGFYI
 NLPEDTETAKSLPDTYKDKALIKFSYLYFEEDFVDKAEKSLKQTPHSEIIFYKNGVNQGVAYKDFEF
 VYFPAISLYKSCVTSINFGPCFKYPPKDLTYRPMSDMGWAVVEHTLADVL YHVETEVDGRRSPWP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004674

ORF Size: 1884 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_004674.1](#), [NP_004665.1](#)

RefSeq Size: 2381 bp

RefSeq ORF: 1887 bp

Locus ID: 9070

UniProt ID: [Q9UBL3](#)

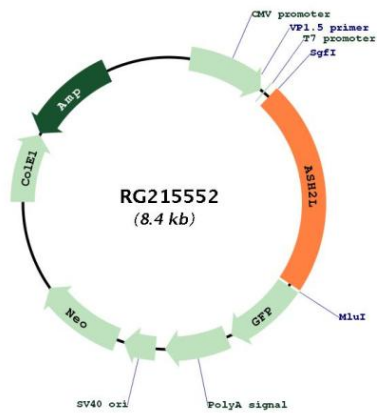
Cytogenetics: 8p11.23

Domains: SPRY

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]

Product images:



Circular map for RG215552