

## Product datasheet for **RG225918**

### ASH2L (NM\_001105214) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASH2L (NM_001105214) 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:**

>RG225918 representing NM\_001105214  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATACTCAGGCGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGGTGAGGTAGAGCTGCAATGTG  
 GGATTTGTACAAAATGGTTCACGGCTGACACATTTGGCATAGATACCTCATCCTGTCTACCTTTTCATGAC  
 CAACTACAGTTTTTCATTGCAACGCTCGCCATCACAGTGGGAATACCTATTTCTCCGGAAGCAAGCAAAC  
 TTGAAGGAAATGTGCCTTAGTGCTTTGGCCAACCTGACATGGCAGTCCCGAACACAGGATGAACATCCGA  
 AGACAATGTTCTCAAAGATAAGGATATTATACCATTTATTGATAAACTGGGAGTGCATGACAACCGAG  
 ACAGAGACCTGGGAAAATGACTTGGCCAATAACATTGTTAAAACAATGAGTAAAGAAAGAGATGTATTC  
 TTGGTAAAGAACACCCAGATCCAGGCAGTAAAGATCCAGAAGAAGATTACCCCAAATTTGGACTTTTGG  
 ATCAGGACCTTAGTAACATTGGTCTGCTTATGACAACAAAAACAGAGCAGTGTGTGTCTACTAGTGG  
 GAATTTAAATGGGGGAATTGCAGCAGGAAGCAGCGGAAAAGGACGAGGAGCAAGCGCAAACAGCAGGAT  
 GGAGGGACACAGGGACCACCAAGAAGGCCCGGAGTGACCCTTTGTTTTCTGCTCAGCGCCTTCCCCTC  
 ATGGCTACCCATTGGAACACCCGTTTAAACAAAGATGGCTATCGGTATATTCTAGCTGAGCCTGATCCGCA  
 CGCCCCTGACCCCGAGAAGCTGGAACCTTGACTGCTGGGCAGGAAAACCTATTCTGGAGACCTCTACAGA  
 GCCTGCTTGTATGAACGGGTTTTGTTAGCCCTACATGATCGAGCTCCCGAGTTAAAGATCTCAGATGACC  
 GGCTGACTGTGGTTGGAGAGAAGGGCTACTCTATGGTGAAGGCTCTCATGGAGTACGAAAAGGTGCCTG  
 GTATTTTGAATCACTGTGGATGAGATGCCACCAGATACCGCTGCCAGACTGGGTGGTCCCAGCCCCTA  
 GAAACCTTCAAGCTCCTTTAGGTTATGATAAAATTTAGCTATTCTTGGCGAGCAAAAAGGGAACCAAGT  
 TCCACCAGTCCATTGGCAAACACTACTCTTCTGGCTATGGACAGGAGACGTCCTGGGATTTTATATTA  
 TCTTCCTGAAGACACAGAGACAGCAAGTCAATGGCCAGACACATACAAAGATAAGGCTTTGATAAAATTC  
 AAGAGTTATTTGTATTTTGGGAAAAAGACTTTGTGGATAAAGCAGAGAAGACCTGAAGCAGACTCCCC  
 ATAGTGAGATAATATTTTATAAAAATGGTGTCAATCAAGGTGTGGCTTACAAAGATATTTTGGGGGGT  
 TTACTTCCAGCCATCTCACTGTACAAGAGCTGCACGGTTCCATTAACCTTTGGACCATGCTTCAAGTAT  
 CCTCCGAAGGATCTCACTTACCGCCCTATGAGTGACATGGGCTGGGGCGCCGTGGTAGAGCACACCTCG  
 CTGACGCTTGTATCACGTGGAGACAGAAGTGGATGGGAGGCGCAGTCCCCATGGGAACCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG225918 representing NM\_001105214  
 Red=Cloning site Green=Tags(s)

MDTQAGSVDEENGRQLGEVELQCGICTKWFTADTFGIDTSSCLPFMTNYSFHCNVCHSGNTYFLRKQAN  
 LKEMCLSALANL TWQSRQTQDEHPKTMFSKDKDIIPFIDKYWECMTTRQRP GKMTWPNNIVKTMSKERDVF  
 LVKEHPDPGSKDPEEDYPKFGLLDQDLSNIGPAYDNQKQSSAVSTSGNLNGGIAAGSSGKGRGAKRQDQD  
 GGTTGTTKARSPLFSAQRLPPHGYPLEHPFNKDGRYILAEPDPHAPDPEKLELDCWAGKPIPGDL YR  
 ACLYERVLLALHDRAPQLKISDDRLLTVVGEKGYSMVRASHGVRKGAWYFEITVDEMPPDTAARLGSQPL  
 GNLQAPLGYDKFSYSWRSKKGTKFHQSIGKHYSSGYGQGDVLFYINLPEDTETAKSLPDTYKDKALIKF  
 KSYLYFEEKDFVDKAEKSLKQTPHSEIIFYKNGVNGQVAYKDI FEGVYFPAISLYKSCTVSI NFGPCFKY  
 PPKDLTYRPMDSMGWAVVEHTLADVL YHVETEVDGRRSPPWEP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul



<b>ACCN:</b>	NM_001105214
<b>ORF Size:</b>	1602 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001105214.2</a> , <a href="#">NP_001098684.1</a>
<b>RefSeq Size:</b>	3055 bp
<b>RefSeq ORF:</b>	1605 bp
<b>Locus ID:</b>	9070
<b>UniProt ID:</b>	<a href="#">Q9UBL3</a>
<b>Cytogenetics:</b>	8p11.23
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]