

Product datasheet for SC311059

I Afadin (AFDN) (NM_001040000) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	I Afadin (AFDN) (NM_001040000) Human Untagged Clone
Tag:	Tag Free
Symbol:	I Afadin
Synonyms:	AF6; I-afadin; MLL-AF6; MLLT4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001040000 edited
 ATGTCGGCGGGCGGCCGTGACGAGGAGCGCGGAAGCTGGCCGACATCATCCACCACTGG
 AACGCCAACCGGCTGGACCTGTTTCGAGATCAGCCAGCCGACCGAGGATTTGGAGTCCAT
 GGAGTGATGAGATTTTATTTTCAAGATAAAGCTGCTGGAACTTTGCAACAAAATGTATT
 CCGGTCTCTAGTACTGCCACCACTCAAGATGTAATCGAAACGCTCGCGGAGAAATTCGA
 CCTGATATGCGAATGCTGTCTCTCCCAAGTATCACTCTATGAAGTGCATGTCAGCGGA
 GAAGAAAGAAGATTGGATATAGATGAGAAACCTCTAGTTGTACAACGAATTGGAACAAA
 GATGATCGGGAAGGCAGATTTGTTCTTAAGAATGAGAATGACGCCATTCCTCCTAAGAAG
 GCTCAAAGTAATGGACCTGAAAAGCAGGAAAAAGAAGGGTTATCCAGAACTTCAAGAGA
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 GCATCTGATAAAGATGATAGACCTTTCCAAGGGGAGGATGTTGAAAATTCTCGACTGGCT
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 TCAGATGGGCGGCCTGATTCAGGTGGAACATTGAGAAATTTATGCAGATAGTTAAACCA
 AATATTCCTACAAGACAATCCTGCTGTCTACTACAGATCCTGCAGACTTTGCTGTGGCT
 GAAGCTTTAGAGAAGTATGGTCTGGAAAAAGAAAACCTAAGGATTACTGCATCGCCCGG
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 CCTCCGGAGAAGCTGCCCTATTTAGTAGAGTTAAGCCCAGGGAGAAGGAATCACTTTGCC
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 CGCCTTCAGTTAAGTGTACTGAAGTTGGGACAGAAAAGTTGGATGACAACCTATCCAG
 TTGTTTGGCCAGGAATTCAGCCCCATCACTGTGACCTTACCAACATGGATGGAGTGGTC
 ACTGTGACGCCAGAAAGTATGGACGCAGAAACCTACGTGGAAGGCCAGCGCATCTCAG : A
 AACCACCATGCTGCAGAGTGGCATGAAAGTGCAGTTTGGGGCGTCCCATGATTTAAAGTT
 TGTGGACCCAGTCAGGATCATGCTCTTGCAAAAAGATCTGTGGATGGAGCCTGATGTT



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TAAGGGCCCAAGACATAAACCTGGAATTGTTTCAGGAGACAACTTTTGATTTGGGAGGAGA
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AGTGTCTGCTGCCTCTAGCACAGCCGAGCGGGGAATGGTGAAGCCGATGATCAGAGTAGA
ACAGCAGCCAGATTATCGCAGGCAAGAAAGCAGAACACAGGATGCTTCTGGGCCTGAGCT
GATACTACCTGCAAGCATTGAATTCAGGGAAAGTTCTGAAGATTCATTTTTGTCTGCCAT
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CCCTGGCCGTTGGAAAACACCAGCAGCCATACCGGCCACCCCTGTGGCCGTCTCCAGCC
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GAAGTTGGGCCAGATGCGCACTCAGTCTTAAACCTGCTCCGTTTTCTCCCTGACTGC
ACAGCAGATGAAGCCCGAAAAGCCTTCCCACTCCAGCGCCACAGGAAACAGTCATTCCG
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AGTCAGCAAAGAGGAGCTTCTCGGGGGACAGTCTGTCCCCGACCCGTGGAAGCGGGA
CGCCAAGGAGAAGCTGGAGAAGCAGCAGCAGATGCACATCGTGGACATGCTGAGCAAAGGA
GATCCAGGAGCTCCAGAGCAAACCGGACCGCAGCGCCGAGGAGAGCGACCCGGCTGCGCAA

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GCTCATGCTGGAGTGGCAGTTCCAGAAGAGACTCCAGGAGTCGAAGCAGAAGGACGAAGA
TGACGAGGAGGAGGAGGACGATGATGTGGACACCATGCTGATCATGCAGCGCCTGGAGGC
TGAACGAAGAGCGAGGGACGAGGAGCGGAGGCGGCAGCAGCAGTTAGAAGAGATGCGCAA
GCGGGAAGCGGAAGACCGAGCGAGGCAAGAGGAAGAGCGCCGGCGGCAGGAGGAGGAGCG
AACAAAACGAGACGCTGAAGAAAAGTTATGGTCCTTTAA
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Restriction Sites:	Please inquire
ACCN:	NM_001040000
Insert Size:	7800 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_001040000.1 , NP_001035089.1
RefSeq Size:	7551 bp
RefSeq ORF:	4956 bp
Locus ID:	4301
UniProt ID:	P55196
Cytogenetics:	6q27
Protein Families:	Druggable Genome

Protein Pathways:

Adherens junction, Leukocyte transendothelial migration, Tight junction

Gene Summary:

This gene encodes a multi-domain protein involved in signaling and organization of cell junctions during embryogenesis. It has also been identified as the fusion partner of acute lymphoblastic leukemia (ALL-1) gene, involved in acute myeloid leukemias with t(6;11) (q27;q23) translocation. Alternatively spliced transcript variants encoding different isoforms have been described for this gene, however, not all have been fully characterized.[provided by RefSeq, May 2011]

Transcript Variant: This variant (2) has several differences compared to variant 4. The resulting isoform (2) is longer at the N-terminus but has a shorter and distinct C-terminus compared to isoform 4.