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Product datasheet for MC224949

Afdn (NM_010806) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Afdn (NM_010806) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Afdn
Synonyms:	5033403D15Rik; Af-6; AF6; Afadin; Gm314; I-afadin; Mllt4; S-afadin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC224949 representing NM_010806
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGCGGGCGGCCGCGACGAAGAGCGGCGGAAGCTGGCCGACATCATTCACCACTGGAACGCCAACC
GGCTGGACCTGTTCGAGATCAGCCAGCCGACCGAGGATTTGGAGTTTCATGGAGTCATGAGATTTTATTT
TCAAGATAAAGCTGCTGGAAACTTTGCAACAAAATGTATTCGAGTCTCTAGCACAGCCACCACTCAAGAT
GTGATTGAAACACTGGCAGAGAAGTTCCGCCCTGACATGCGCATGCTCTCCTCTCCCAAGTACTCCCTCT
ATGAAGTGCATGTCAGTGGAGAAAGAAGATTGGACATTGATGAGAAACCTCTAGTTGTACAGTTGAATTG
GAACAAAGATGATCGAGAGGGTCGATTCGTCCTTAAGAACGAGAATGACGCCATTCCTGCCAAGAAGGCT
CAGAGTAATGGACCTGAAAAGCAGGAGAAAGAAGGTGTTATTCAGAACTTCAAAAGAACTCTCTCAAAGA
AAGAAAAGAAGGAAAAAAAGAAGAAAGAGAAGGAGGCATTGAGACAAGCCTCTGATAAGGAAGAAAGGCC
TTCTCAAGGGGATGACAGTGAGAACTCACGACTGGCTGCTGAAGTTTACAAAGACATGCCTGAGACCAGC
TTTACTAGGACCATTTCTAACCCTGAAGTTGTCATGAAACGGCGGCGGCAGCAAAAACTGGAGAAGAGAA
TGCAAGAGTTTCGGAGCTCAGATGGGCGGCCTGACTCAGGTGGAACACTGAGGATATATGCAGATAGTTT
AAAACCAAATATTCCATACAAGACAATCCTGCTGTCTACTACCGATACCGCAGACTTTGCTGTAGCCGAA
TCTTTGGAGAAGTATGGTCTGGAAAAAGAGAATCCCAAGGACTACTGTATTGCCCGGGTTATGCTTCCTC
CTGGAGCCCAGCATTCTGATGAGAGAGGTGCTAAGGAAATAATTCTTGACGATGATGAATGTCCTTTACA
AATCTTCAGGGAATGGCCAAGTGACAAAGGGATTTTAGTCTTTCAGTTGAAGAGGAGACCACCGGACTAC
ATCCCAAAGAAAATGAAGAAACATGTTGAAGGGAAGTCGTTGAAGGGGAAAGACAGAGCTGACGGGTCTG
GCTACGGCTCCGCTCTTCCTCCCGAGAAGCTGCCCTACTTAGTAGAGCTAAGCCCAGGGAGAAGGAATCA
CTTTGCCTACTACAGCTATCACACTTACGAAGATGGCTCTGACTCCAGAGACAAGCCAAAGTTATACCGC
CTTCAATTAAGTGTGACTGAAGTTGGGACAGAGAAATTTGATGACAATTCTATCCAGCTGTTTGGCCCCG
GAATTCAGCCCCATCACTGTGATCTCACCAACATGGATGGAGTGGTCACTGTGACACCCAGAAGTATGGA
TGCAGAGACCTACGTGGATGGTCAGCGCATCTCAGAGACCACAATGCTGCAGAGTGGCATGAGACTGCAG
TTTGGCACCTCGCATGTGTTTAAGTTTGTGGACCCCATCCAGGACCACGTTCTTTCCAAGAGATCTGTGG

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ATGGAGGCCTGATGGTCAAGGGCCCAAGACATAAACCTGGAGCTGTTCAGGAGACAACCTTTGAATTGGG
AGGAGATGTCCACAGTGGGACAGCATTGCCGGCAAGCAGGAGCACTACTAGACTGGACAGTGACAGGGTG
TCCTCTGCCTCTAGCACAGCTGAGCGAGGGATGGTGAAGCCGATGATCCGACTGGACCAGGAGCAGGAAT
ATCGACGACGAGAAAACAGGACTCAGGATGCTACTGGGCCTGAACTGATACTGCCTGCCAGCATTGAATT
CAGGGAAAGCTCTGAAGACTCTTTTTTATCTGCCATTATAAACTATACCAATAGTTCTACAGTTCATTTT
AAGTTGTCACCTACATATGTGTTATACATGGCATGCCGGTATGTATTGTCCAGCCAGCACAGGCCCGACA
TCAGTCCTACAGAGCGTACACATAAGGCCATTGCTGTTGTCAACAAGATGGTGAGCATGATGGAAGGGGT
CATCCAGAAACAGAAGAACATTGCAGGAGCACTTGCTTTTTGGATGGCAAATGCATCTGAGCTTCTCAAC
TTCATCAAGCAGGACCGAGACCTTAGTCGGATCACGCTGGATGCCCAGGATGTCCTAGCACACTTGGTTC
AGATGGCATTTAAGTACTTGGTTCATTGCCTTCAGTCAGAACTTAATAACTACATGCCAGCCTTTCTGGA
TGATCCTGAGGAGAACAGTCTGCAAAGACCAAAAATAGATGATGTGCTGCACACACTCACAGGAGCCATG
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TCAATATGTGGCTGTTCAACAGACTGGTGACTGACCCAGATTCAGGCCTGTGCTCCCACTACTGGGGTGC
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TGTCACTTGAGCAGAATTGTACAGGCTACAACATTGCTTACGATGGATAAGTATGTACCTGATGACATTC
CAAATATAAACAGCACATGCTTTAAGTTAAATTCTCTGCAGCTTCAAGCCTTGTTACAAAATTACCACTG
TGCACCCGATGAGCCTTTTATTCCTACGGATCTCATAGAAAATGTTGTGGCTGTTGCTGAGAACACAGCT
GATGAGCTCGCCCGCAGTGATGGCAGAGACGTGCAGCTGGAGGAAGACCCAGACCTACAGCTGCCTTTTC
TTCTGCCAGAAGATGGCTATTCCTGTGATGTTGTCAGAAACATTCCAAATGGTTTACAAGAATTTTTAGA
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AGCCTGAGATAATCACTGTGACTCTGAAGAAGCAGAATGGAATGGGCCTCAGCATCGTTGCAGCCAAGGG
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CAGCAGAACTCATGACAAGAACCAGTTCCGTGGTTACACTGGAAGTTGCAAAGCAAGGTGCCATCTATCA
CGGCCTGGCCACCCTCCTTAACCAGCCGTCCCCCATGATGCAAAGAATTTCAGATCGTCGTGGCTCAGGT
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TCTGGAACAGCAGCTAAGATAACATCTGTCTCCACTGGAAACCTCTGCACTGAGGAGCAGTCCCCTCCAC
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GTCGCAGGATCGGATGGCTCCTCCTCAGAGCCAGTGGCCAAATTATGAGGAAAAACCACATGTGCACACA
GAAAGTAATCATTCCAGTATTGCAATCCAGCGTGTTACCCGTTCCCAGGAAGAGCTTCGGGAAGAAAAGG
TTTACCAACTTGAGCGGCATCGAGTAGAGGCAGGCATGGATCGCAAGTGTGACAGTGATATGTGGATCAA
TCAGAGCTCCTCAGTGGAATCCAGCACATCCAGCCAGGAACACCTGAACCATTCTTCCAAGTCAGTTACC
CCTGCTTCCACTCTGACCAAGAGTGGTCCTGGCCGTTGGAAAACACCAGCAGCGGTGCTGCCCACCCCTG
TGGCTGTCTCTCAGCCCATTCGAACAGACCTCCCTCCACCACCACCTCCACCGCCGGTCCACTACACCAG
TGAGTTTGATGGTATTCCAATGGATTTGCCCCTCCCACCTCCTCCTGCCAACCAGGCAGGACCCCAGTCT
GCTCAGGTGGCTGCTGCAGAGTGGAAAAAGAGAGAGGAGCACCAGAGGTGGTATGAGAAAGAGAAGGCCC
GCCTGGAGGAAGAACGAGAGAGAAAGCGCAGGGAGCAGGAGCGGAAGTTGGGGCAGATGCGCTCTCAGAC
CCTGAACCCTGCTTCCTTCTCACCTTTGGCCACACAGGCCAAGCCAGAAAAGCCTTCCACACTGCAGAGG
CCCCAAGAAACAGTCATTCGGGAGCTTCAGCCCCAGCAGCAGCCCCGCACGATCGAGCGCAAGGATCTGC
AGTATATAACCATCAGTAAAGAGGAGCTGTCCTCTGGTGATAGTCTGTCTCCAGACCCCTGGAAACGAGA
TGCCAGGGAGAAGCTGGAGAAGCAACAGCAAATGCACATTGTGGACATGCTAAGCAAGGAGATCCACGAG
CTGCAAAACAAGGTGGACCGTACTGCGGAGGAGAGTGACCGCCTGCGGAAGCTTATGCTGGAGTGGCAGT
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CACCATGCTGATCATGCAGCGTCTGGAGGCCGAGCGGAGAGCCAGGATGCAGGATGAGGAGCGCAGGCGC
CAGCAACAGTTGGAAGAGATGCGGAAACGAGAAGCAGAAGATCGAGTAAGACAAGAGGAAGATGGACGCC
ATCAGGAGGAGGAGCGAGTAAAGAGAGATGCTGAAGAAAAGAGGCGACAGGAGGAAGGGTATTACAGCCG
CCTAGAAGCTGAGAGGCGCCGACAGCACGAAGAGGCAGCACGCAGGCTGCTGGAGCCTGAAGAGCCCGGG
CTGAGCCGACCTCCACTTCCACGGGACTATGAGCCCCCGTCCTTGTCCTCAGCACCCTGTGCCCCTCCTC
CCCCACCTCAGCGAAACGCATCCTACCTCAAAACACAGGTCCTCTCCCCAGACTCGCTGTTCACTGCCAA

GTTTGTTGCGTATGATGAGGAGGAGGAGGACTACGGCCCAGCAGGACCAAACTCTTACTCGGGATCTGCA
GGCACAGCTGTGGGAGCCTATGATGCCCCTCGGGAAGCGAGAGAGAAACTGACTAGGAGCCAAGACGCAG
ACTTACCTGGCAGTTCTGGAGCCCCTGAAAATCTGACATTTAAAGAGCGTCAGCGCCTTTTTTCACAAGG
GCAGGATGTGTCTGACAAAGTGAAAGCTTCTCGTAAATTAACAGAGCTCGAGAATGAACTGAACACAAAG
TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_010806

Insert Size: 5463 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_010806.1, NP_034936.1

RefSeq Size: 7401 bp

RefSeq ORF: 5463 bp

Locus ID: 17356

UniProt ID: Q9QZQ1

Cytogenetics: 17 A1- A2

Gene Summary: Belongs to an adhesion system, probably together with the E-cadherin-catenin system, which plays a role in the organization of homotypic, interneuronal and heterotypic cell-cell adherens junctions (AJs). Nectin- and actin-filament-binding protein that connects nectin to the actin cytoskeleton. May play a key role in the organization of epithelial structures of the embryonic ectoderm.[UniProtKB/Swiss-Prot Function]