

Product datasheet for **MG226019**

Afdn (NM_010806) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Afdn (NM_010806) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Afdn
Synonyms:	5033403D15Rik; Af-6; AF6; Afadin; Gm314; I-afadin; Mllt4; S-afadin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226019 representing NM_010806 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCGGGCGCCGCGACGAAGAGCGGGGAAGCTGGCCGACATCATTACCACTGGAACGCCAACCGCTGGACCTGTTTCGAGATCAGCCAGCCGACCGAGGATTTGGAGTTTCATGGAGTCATGAGATTTATTTCAAGATAAAGCTGCTGGAACTTTGCAACAAAATGTATTCGAGTCTCTAGCACAGCCCACTCAAGATGTGATTGAAACTGGCAGAGAAGTTCCGCCCTGACATGCGCATGCTCTCCTCTCCCAAGTACTCCCTCTATGAAGTGCATGTCAGTGGAGAAAGAAGATTGGACATTGATGAGAAACCTCTAGTTGTACAGTTGAATTGAAACAAAGATGATCGAGAGGGTCGATTCGTCCTTAAGAACGAGAATGACGCCATTCTGCCAAGAAGGCTCAGAGTAATGGACCTGAAAAGCAGGAGAAAAGAAGTGTTATTCAGAACTTCAAAAAGAACTCTCTCAAAGAAGAAAAGAAGGAAAAAAGAAGAAAGAGAAGGAGGCATTGAGACAAGCCTCTGATAAGGAAGAAAGGCCTTCTCAAGGGGATGACAGTGAGAACTCACGACTGGCTGCTGAAGTTTACAAAGACATGCCTGAGACCAGCTTTACTAGGACCATTTCTAACCTGAAGTTGTCATGAAACGGCGGGCAGCAAAAAGTGGAGAAGAAATGCAAGAGTTTCGGAGCTCAGATGGCGGCCTGACTCAGGTGGAACACTGAGGATATATGCAGATAGTTTAAAACCAATATTCATACAAGACAATCCTGCTGTCTACTACCGATACCGCAGACTTTGCTGTAGCCGAACTTTGGAGAAGTATGGTCTGGAAAAGAGAATCCCAAGGACTACTGTATTGCCGGGTTATGCTTCTCTCTGGAGCCAGCATTCTGATGAGAGAGGTGCTAAGGAAAATAATTCTTGACGATGATGAATGTCCTTTACAATCTTCAGGGAATGGCCAAGTGACAAAAGGATTTTAGTCTTTCAGTTGAAGAGGAGACCACCGGACTACATCCCAAAGAAAATGAAGAAACATGTTGAAGGGAAGTCTGTTGAAGGGGAAAAGACAGAGCTGACGGGCTGCTGCTACGGCTCCGCTCTTCTCCCGAGAAGCTGCCCTACTTAGTAGAGCTAAGCCAGGGAGAAGGAATCACTTTGCCCTACTACAGCTATCACACTTACGAAGATGGCTCTGACTCCAGAGACAAGCCAAAGTTATACCGCTTCAATTAAGTGTGACTGAAGTTGGGACAGAGAAATTTGATGACAATTCTATCCAGCTGTTTGGCCCCGGAATTCAGCCCCATCACTGTGATCTACCAACATGGATGGAGTGGTCACTGTGACACCCAGAAGTATGGAATGCAGAGACCTACGTGGATGGTCAGCGCATCTCAGAGACCACAATGCTGCAGAGTGGCATGAGACTGCAG



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TTTGGCACCTCGCATGTGTTAAGTTTGTGGACCCCATCCAGGACCACGTTCTTTCCAAGAGATCTGTGG
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 GGCACAGCTGTGGGAGCCTATGATGCCCTCGGGAAGCGAGAGAAAAGTACTAGGAGCCAAGACGCAG
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 GCAGGATGTGTGACAAAAGTAAAGCTTCTCGTAAATTAACAGAGCTCGAGAATGAACTGAACACAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226019 representing NM_010806
 Red=Cloning site Green=Tags(s)

MSAGGRDEERRKLADIIHHWNANRLDLFEISQPTEDLEFHGVMRFYFQDKAAGNFATKCIKRVSSATTQD
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 QSNGPEKQEKEGVIQNFKRTL SKKEKKEKKEKKEALRQASDKEERPSQGDDSENSRLAAEVYKDMPETS
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 IPKMKKHVEGKSLKGDRAADGSGYGSALPPEKLPYLVELSPGRRNHFAYSYHTYEDGSDSRDKPKLYR
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 FIKQDRDLSRITLDAQDVL AHLVQMAFKYL VHCLQSELNNYMPAFLDDPEENSLQRPKIDDLHTLTGAM
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 AQVAAA EWKKREEHQRWYEKARLEEEERERKRREQERKLGQMRSTLNPAFSPLATQAKPEKPSLQ
 PQETVIRELQPQQPRTIERKDLQYITISKEELSSGDSLSPDPWKRDAEKLEKQQMHIVDMLSKEIHE
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 LSRPPLPRDYEPSSLSSAPCAPPQQRNASYLKTQVLSPLSFTAKFVAYDEEEEDYGPAGPNSYSGSA
 GTAVGAYDAPREAREKL TRSQDADLPSSGAPENLTFKERQRLF SQGDVSDKVKASRKL TELENELNTK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ORF Size:	5460 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:	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]