

## Product datasheet for **RR209209**

### Afdn (NM\_013217) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Afdn (NM_013217) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Afdn
Synonyms:	Af6; Mllt4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209209 representing NM_013217 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCGGCGGGCGGCCGCGACGAAGAGCGGGCGGAAGCTGGCCGACATCATTACCACTGGAACGCCAAC  
GGCTGGACCTGTTTCGAGATCAGCCAGCCGACCGAGGATTTGGAGTTTCATGGAGTCATGAGATTTATTT  
TCAAGATAAAGCTGCTGGAACTTTGCAACAAAATGTATTCGGGTCTCTAGCACAGCAACCACTCAAGAT  
GTCAATTGAAACACTGGCAGAGAAGTTCCGCCCTGATATGCGCATGCTCTCCTCTCCCAAGTACTCCCTCT  
ATGAAGTGCATGTCAGTGGAGAAAGAAGATTGGACATTGATGAGAAACCTCTAGTTGTACAGTTGAATTG  
GAACAAAGATGATCGGGAGGGTAGATTCTGCTCTTAAGAACGAGAAATGACGCCATTCCTGCCAAGAAGGCT  
CAGAGTAATGGACCTGAGAAGCAGGAGAAAAGAAGGTGTTATTCAGAACTCAAAGAAGCTGTCAAAGA  
AAGAAAAGAAGGAAAAAAGAAGAGAGAGAAGGAGGCTTTGAGACAAGCCTCTGATAAGGAAGAAAGGCC  
TTCTCAAGGGGATGACAGTGAGAATTCCTGCTGGCTGCTGAAGTTTACAAGACATGCCTGAAACCAGC  
TTTACTCGAACGATTTCTAATCCTGAAGTTGTTATGAAACGGCGGCCGAGCAAAAACCTGGAGAAGAGAA  
TGCAAGAGTTTCGGAGCTCAGATGGCGGCCCGACTCGGGTGAACACTGAGAATCTATGCAGACAGTTT  
AAAACCAAATATTCATACAAGACAATCCTGCTGTCTACTACAGATCCTGCAGACTTTGCTGTAGCAGAG  
TCCTTAGAGAAGTATGGTCTGGA AAAAGAGAACC CAAGGACTACTGCATTGCTCGGGTTATGCTTCCTC  
CTGGAGCCAGCATTCTGATGAGAGAGGTGCTAAGGAAATAATTCTTGATGACGATGAATGCCCTTTACA  
AATCTTCAGGGAATGGCCAAGTGACAAAGGATTTTAGTCTTTCAGTTGAAGAGGAGACCACCGGACTAC  
ATTCAAAGAAAATGAAGAAACATGTTGAAGGCAAGCCATTGAAGGGGAAAGATAGAGCTGACGGGTCTG  
GCTACGGCTCTGCTCTTCTCCTGAGAAGCTGCCCTACTTAGTAGAGCTCAGCCCAGGGAGAAGGAATCA  
CTTTGCCACTACAGCTATCACACTTACGAAGATGGCTCTGACTCCAGAGACAAGCCAAAGTTATACCGC  
CTTCAGTTAAGTGTGACTGAAGTTGGGACAGAGAAGTTCGATGACAATTCTATTCAGCTGTTTGGTCTG  
GAATTCAGCCCCATCACTGTGATCTACCAACATGGATGGAGTGGTCACTGTGACACCCAGAAGTATGGA  
TGACAGAGACCTATGTGGATGGTCAGCGCATCTCAGAGACCACAATGCTACAGAGTGGCATGAGACTGCAG  
TTTGGCACCTCGCATGTGTTAAGTTTGTGGACCCATCCAGGACCACGTTCTTTCCAAGAGATCTGTGG



ATGGAGGCTGATGGTCAAGGGCCCAAGACATAAACCTGGAGCCGTTCAAGAGACAACCTTTGAATTGGG  
 AGGAGATATCCACAGTGGGACAGCATTGCCGGCAAGCAGGAGCACTACTAGATTGGACAGTGACAGGGTG  
 TCCTCTGCCTCTAGCACAGCTGAGCGAGGGATGGTGAAGCCAATGATCCGACTGGACCAGGAGCAGGACT  
 ACCGGCGAAGAGAAAAGCAGGACTCAGGATGCTGCTGGGCTGAACTGATGCTGCCTGCCAGCATTGAATT  
 CCGGAAAAGCTCTGAAGACTCTTTTTATCTGCCATTATAAATAACCAATAGCTCTACAGTTCATTTT  
 AAGTTGTACCTACATATGTGTTATACATGGCATGCCGGTATGTATTGTCCAGCCAGCACAGGCCGACA  
 TCAGTCTACAGAGCGGACACATAAGGCCATTGCTGTTGTGAACAAGATGGTGGATGATGGAAGGGGT  
 CATCCAGGAAGTAGACCAGTTGATCAGAAACAGAAGAACATTGCAGGAGCACTTGCTTTCTGGATGGCA  
 AATGCATCTGAGCTTCTCAACTTCATCAAGCAGGACCGAGACCTTAGTCGGATTACTCTGGATGCCAGG  
 ATGTTCTAGCACACTTGGTTCAGATGGCATTAAAGTACTTGGTTCAGTGCCTTCAGTCAGAACTTAATA  
 CTACATGCCAGCCTTTCTGGATGATCCCAGGAGAACAGTCTGCAGAGACCAAAAATAGATGATGTGCTG  
 CATACGCTCACAGGAGCCATGTCCTTGTGCGGCGCTGCAGAGTCAATGCCGCTTGACCATCCAGCTGT  
 TCTCTCAGCTTTCCACTTCATCAATATGTGGCTATTCAACAGACTGGTACTGACCCAGATTGAGGCT  
 GTGTTCCCACTACTGGGCGCAATTATCCGCCAGCAGCTGGGGCATAATTGAAGCTTGGGCAGAGAAGCAG  
 GGACTAGAGTTGGCAGCTGACTGCACTTGAGCAGGATCGTGCAGGCTACTACGTTGCTTACAATGGATA  
 AGTATGTACCTGATGACATTCAAAATATAAACAGCACATGCTTTAAGTTAAATTCCTGCAGCTTCAAGC  
 CCTTTACAGAATTACCACTGTGCACCTGATGAGCCTTTATTCTACGGATCTCATAGAAAATGTCGTG  
 GCTGTTGCTGAGAACACAGCTGATGAGCTTGCCCGCAGTATGGCAGAGATGTGCAGTTAGAGGAGGACC  
 CTGATCTACAACCTGCCCTTTCTTCTGCCAGAAGATGGCTATTCCTGTGATGTTGTGAGAAACATTCAAA  
 TGGTTTACAAGAATTTTAGACCCTCTGTGCCAGAGAGGATTTGAGGTTGGTTCCTCACACACGTTCT  
 CCAGGTACCTGGACAATATTTTGAAGGAGCAGATTATGAAAGTCACCTCATGCGTGAGAACACAGAAC  
 TGACCCAGCCTCTGAGGAAGGAGCCTGAGTAACTACTGTGACCCTGAAGAAGCAGAAATGGAATGGGCT  
 CAGCATGTTGTCAGCAAAAGGGTCTGGCCAGGATAAACTGGGAATCTACGTTAAGTCCGTGTCAAAGGA  
 GGTGCTGCAGATGTGGATGGACGCTGCTGGTGACCAACTCCTTAGTGTGGATGGACGAAGTCTGG  
 TTGGACTTTCTCAGAAAAGGGCAGCAGAACTCATGACAAGAACCAGTTCCGTGGTAACTGGAAGTTGC  
 AAAGCAAGGCGCTATCTATCACGGACTGGCCACTCTCCTTAACCAGCCATCACCCATGATGCAGAGAATT  
 TCAGATCGTCTGGCTCAGGTAACCCAGACCAAGAGCGAAGGTTTTGAGCTCTATAATAATTCAGCTC  
 AAAACGGCTCCCCAGAGAGTCTCAGATGCCTTGGACAGAGTACAGTGAAGCAAGAGCTGCCTGGTGA  
 CGACAGGCTGATGAAAAACAGAGCTGACCACCGTTCAGCCCAATGTGGCAATCAGCCCCCTAGTCT  
 GGAGGGAAGAGTCCATATACCTCTGGAACAGCAGCTAAAATAACATCTGTCTCTACTGAAAACCTCTGCA  
 CTGAGGAGCAGACCCCTCCACTAGACCTGAAGCCTATCCTATCCCTACTCAGACATATACCAGAGAGTA  
 TTTTACCTTTCCAGCTTCAAAGTCGAGGATCGGATGGCTCCTGTTCAAACCCAGTGGCCAAATATGAG  
 GAAAAACACACATGCACACAGAAAGTATCATGCCAGTATTGCAATCCAGCGTGTACCCGTTCCAGG  
 AAGAGCTTCGGGAAGAGAAGGTTTACCAACTTGAGCGTATCGAGTAGAGTCAGGCATGGATCGCAAGTG  
 TGACAGTGATATGTGGATCAATCAGAGCTCCTCAGTGGAACTAGCACGCTAGCCAGGAGCACCTGAAC  
 CATTCTCCAAGTCAGTTACCCCTGCTTCCACTTGACCAAGAGTGGTCTGGTGGTGGAAAACCCAG  
 CAGCTGTGCTCCCCACCCTGTGGCTGTCTCCCAACCCATTGACACAGACCTCCCTCCACCACCCTCC  
 ACCACTGCCACTACACCAGTGATTTTGTGGTATTTCAATGGATTTGCCCTCCACCCTCCTCCTGCC  
 ACCAAGCAGCTCCCCAGTCTGCTCAGGTGGCTGCTGCAGAGAGGAAAAAGAGAGAGGAGCATCAGAGGT  
 GGTATGAAAAAGAGAAGGCCCGCTGGAGGAGGAACGAGAGAGAAAAGCGCAGGGAGCAAGAGAGGAAGTT  
 GGGCAGATGCGCACTCAGTCCCTGAACCTGCTTCTTCTCTCTTTGGCCACACAGGCCAAGCCAGAA  
 AAGCCTTCCACTGCAGAGGCCCAAGAAACGGTCATTGCGGAGCTGCAGCCCCAGCAGCAGCCCCGTA  
 CTATTGAGCGCAGGGATCTGCAGTACATAAACCATCAGTAAAGAGGAGCTGTCTCTGGGGATAGTCTGTC  
 TCCAGACCCATGGAAACGAGATGCCAGGGAGAAGCTGGAGAAGCAACAGCAAATGCACATTTAGACATG  
 CTAAGCAAGGAGATCCATGAGCTGCAAAACAAGGGGGACCGTACTGCAGAGGAGAGTACCCGCTGCGGA  
 AGCTTATGCTGGAGTGGCAGTTCAGAAGAGACTACAGGAGTCCAAGCAGAAGGATGAGGATGATGATGA  
 AGAGGAAGATGATGATGTTGACACCATGCTGATCATGCAGCGACTGGAGGCGGAGCGGAGAGCCAGTTG  
 CAGGATGAAGAGCGCAGGCCAGCAACAGTTGGAAGAGATGCGGAAACGAGAAGTTGAAGACAGAGTAA  
 GACAAGAGGAAGATGGACGCCATCAGGAGGAGGAGCGAGTAAAGAGAGATGCTGAAGAAAAGAGGCGACA  
 GGAAGAAGGGTATTACAGCCGCCTAGAAGCTGAGAGGCGCAGACAGCATGAAGAGGCAGCACGCAGGTTG  
 CTGGAGCCCAAGAACCCGGGCTGAGCCGACCTCCACTTCCACAGGACTACGAGCCCCCATCCAGTCTCT  
 CAGACCCAGTGGCCCTCCTCCCCACCTCAGCGAAATGCCTCTACCTCAAACACAGGTCTCTCCCC

AGACTCGCTGTTCACTGCCAAGTTTGTTCGATGATGATGATGAGGAGGAGAACTACGTCCCAGCA  
 GGACAAACTCTTATTCGGGATCTGCTGGCACAACCTGCTGGAACCTATGATGCTCCTCGGGACACAAGAG  
 AAAAACTCAGTAGAAGCCAAGATGCAGACTTACCTGGCAGTTCTGGAGCCCTGAAAACCTGACATTTAG  
 AGAGCGTCAGCGCCTCTTTTACAAGGTCAAGATGTGTGACAGAAAAGTAAAAGCTTCTCGTAAATTAACA  
 GAGCTTGAGAATGAACCAACCAAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209209 representing NM\_013217  
 Red=Cloning site Green=Tags(s)

MSAGGRDEERRKLADIIHHWNANRDLFEISQPTEDLEFHGVMRFYFQDKAAGNFATKCIKRVSSATTQD  
 VIETLAEKFRPDMRMLSSPKYSLYEVHVSGERRLDIDEKPLVVQLNWNKDDREGRFVLKNENDAIPAKKA  
 QSNGPEKQKEGVIQNFKRTLSKKEKKEKKREKEALRQASDKEERPSQGDDSENSRLAAEVYKMPETS  
 FTRTISNPEVVMKRRRQQLKLRMQEFRSSDGRPDSSGTLRIYADSLKPNIPYKTILLSTDPADFAVAE  
 SLEKYGLEKENPKDYCIARVMLPPGAQHSDERGAKEIILDDDECPLQIFREWPSDKGILVFQLKRRPPDY  
 IPKMKKHVEGKPLKGDADRAGSGYGSALPPEKLPYLVELSPGRRNHFAYSYHTYEDGSDSRDKPKLYR  
 LQLSVTEVGTEKFDNSIQLFGPGIQPHHCDL TNMDGVVTVTPRSMDETYVDGQRISETTMLQSGMRLQ  
 FGTSHVFKFVDP IQDHVLSKRSVDGGLMVKGPRHKPGAVQETTFELGGDIHSGTALPASRSTTRLDSDRV  
 SSASSTAERGMVKPMIRLDQEQDYRRRESRTQDAAGPELMLPASIEFRESSEDSFLSAIINYTNSSTVHF  
 KLSPTYVLYMACRYVLSSQHRPDISPTERTHKAIAVVKMVMSEMGVIEVDQVDQKQKNIAGALAFWMA  
 NASELLNF IKQDRDL SRITLDAQDVL AHLVQMAFKYL VHCLQSELNNYMPAF LDDPEENSLQRPKIDDLV  
 HTLTGAMSLLRRCRVNAALTIQLFSQLFHF INMWLFNRLVTDPSGLCSHYWGAIIRQQLGHIEAWAEKQ  
 GLELAADCHLSRIVQATLLTMDKYVPDDIPNINSTCFKLNLSLQLQALLQNYHCAPDEPF IPTDLIENVV  
 AVAENTADELARSDDRVDVLEEDPDLQLPFLLPEDGYSCDVVRNIPNGLQEFLDPLCQRGFCRLVPHTRS  
 PGTWTIYFEGADYESHLMRENTELQPLRKEPEVITVTLKQNGMGLSIVAAGKAGQDKLGIYVKSVVKG  
 GAADVDRGLAAGDQLLSDGRSLVGLSQERAAELMTRTSSVVTLEVAKQGAHYHGLATLLNQPSPMMQRI  
 SDRRGSGKPRPKSEGFELYNNSAQNGSPE SPQMPWTEYSEPKLPGDRLMKNRADHRSSPNVANQPPSP  
 GKGSPYTSATAAKITSVSTGNLCTEEQTPPPRPEAYPIPTQTYTREYFTFPASKSQDRMAPVQNVQPNYE  
 EKPHMHTESDHASIAIQRVTRSQEELREEKVYQLERHRVESGMDRKCDSMWINQSSVESSTSSQEHNL  
 HSSKSVTPASTLTKSGPGRWKTPAAVLPTPVAVSQPIRTDLPPPPPPPAHYTSDFDGISMDDLPLPPPPA  
 NQAAPQSAQVAAAERKKREEHQRYEKEKARLEEEERERKRREKERKLGQMRTQSLNPASF SPLATQAKPE  
 KPSTLQRPQETVIRELQPPQQPRTIERRDLQYITISKEELSSGDSLSPDPWKRDAKLEKQQQMHIVDM  
 LSKEIHELQNKGDRTAEESDRLRKLMEWQFQKRLQESKQKDEDDDEEDDDVDTMLIMQRLAERRARL  
 QDEERRRQQLEEMRKREVEDRVRQEEDGRHQEEERVKRDAEEKRRQEEGYYSRLEAERRRQHEEAARRL  
 LEPEEPLSRPPLPQDYEPSSQSAPSAPPPPPQRNASYLKTVLSPDSLFTAKFVAYDDDDDEENYVPA  
 GPNSYSGSAGTTAGTYDAPRDTREKLSRSQDADLPGSSGAPENLTFRERQRLF SQGQDVSDKVKASRKL  
 ELENELNTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

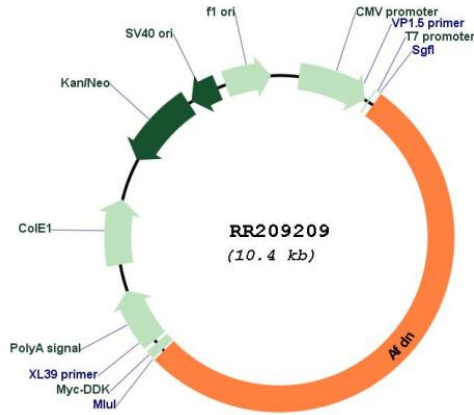
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_013217  
 ORF Size: 5487 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_013217.2</a> , <a href="#">NP_037349.1</a>
<b>RefSeq Size:</b>	7656 bp
<b>RefSeq ORF:</b>	5490 bp
<b>Locus ID:</b>	26955
<b>UniProt ID:</b>	<a href="#">O35889</a>
<b>Cytogenetics:</b>	1q12
<b>MW:</b>	207.7 kDa
<b>Gene Summary:</b>	may play a role in linking the actin cytoskeleton to the plasma membrane [RGD, Feb 2006]