

Product datasheet for **MR220366**

Afm (NM_145146) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Afm (NM_145146) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Afm |
| Synonyms: | Alf; alpha-Alb |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR220366 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGACACTTAAAACCTACAGGTTTTATTTTTCTGTTCCTTTGACTGAATCCCTAGCCCTACCCA
 CAAAGCCTCAGGACGTAGATCATTTCAATGCTACCCAGAAATTCATAGATGAGAACACGACATACCTGGC
 CATCATCGCGTTTTCCAGTATGTCAGGAAGCATCCTTTGATGAGGTGAAACGCTGGTAAAAGTCATG
 CTGGATTACAGGGATAGGTGCTGGGCTGACAACACACTCCAGAGTGTTCAAAGACAGCTAATGACGCTA
 TCCAGGACATGTTATGTGACATGGAGGGACTGCCGCAGAAGCACAACCTTTCTCATTGCTGCGGAAAGC
 CGGCTTTCCAAGAAGACTCTGTTTCTTCTACAACAAGAAAGCTAATGTAGGATCTTGCCCCCTTTCCCC
 ACTCTGGATCCAGAAGAGAAATGCCAAGCTTATAAAAAAACAGTGAATCTTTTCTACACCTCTATATGT
 ATGAGGTTGCCAGAAGGAACCCCTTTGTCTTCGCCCCGTTCTTCTAGCCGTGGCTGCTTGGTTTGAGGA
 GGCAGCGACCACATGTTGTGAACAGCAACAGAAGCCACCTGCTTCAAGCCAAGGCAGCCCCCATCACA
 CAATATTTAAAAGCATCATCTTCTTATCAAAGAAATGTTTGTGGAGCCCTTATAAAGTTTGACCCAAGG
 TCTTAAACTCTATAAACGTTGCTGTATTAGTAAAAAATCCCCAAGATTGGATTTAAGGACCTTACCAC
 CCTCTTAGAAGATGTTTCTTCCATGTATGAAGGATGCTGTGAAGGAGATGTTGTGCACTGCATCCGAAAC
 CAGAGCCAGGTTGTGAACCATATTTGTTCAAACAAGATTCGGTCTCAAGTAAAACAAAGTGTGCTGCG
 AAAAGAAGATCCTAGAACGTGAAGCCTGTATAATTAATGCAAATAAAGACGACAGACCGGAGGGCTTATC
 TCTCAGAGAAGCCAAATCACTGAGAGCGAAAAATGTGTGTCAAGAACGAGATTCTGACCCGGACAAGTTC
 TTTGCTGAGTTTATTTATGAATACTCCAGGAGACATCTGACCTGTCTACACCAGAGCTCCTAAGAATTA
 CTAAGTGTATATGGACTTCTTAGAAGACTGCTGCAGCAGAGAAAAACCCAGCAGTTGTTACCGCCATG
 GGAGGATAAATCAATGAGACAACCTCAGCGAAGCCTTGAATGGTGCAGCAGGAGTGCAAACAGTCCAG
 GAGCTGGGAAGGACACTCTGCAGCGCCATTTCTTGTCAAGTTCACCAAGGCAGCCCTCAGCTCCCCA
 TGAAGAAGTGGTCTCCCTTAGTAAGGAAATGGTGGCAGCTCTGACAACCTGTTGCACTCTCAGTGACGA
 GTTCGCTGCGTTGACAACCTGGCAGATTTAGTCTTGGAGAGTTATGTGGGTAATAACAATCGAACT
 ATCAATCTGCTGTGGATCACTGCTGCAAAACAGACTTCGCCTTCAGAAGACACTGCTTTGAGCATCTGA
 AAGCTGATACAACGTATGAGCTCCATCAGTCTCCGCACTGTATCTGCTTGCATACAGACTGGTGTCA
 GCCTCGTAAGGAGACCTTCAGAATAAGAAACACAGGTTTCTGGTCAACTGGTGAAGTGGATGCCAGGG
 ATCAGCGATGAGGAGTGGCTGTGCTTGTTCACAAAGTTCAGTCTGCCAGGGAGGAGTGCAGCGAAGTGC
 AGGAGCCTGAGTCTGTTTCAGTCCAGAGAGTTCAAAAACCTGGTGCAGAAAGTCAAGCTACAGAGAAACA
 AAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220366 protein sequence
 Red=Cloning site Green=Tags(s)

MRHLKLTGFIFLLPLTESLALPTKPDVDHFNATQKFIDENTTYLAI IAFSQQYVQEASFDEVETLVKVM
 LDYRDRCWADNTLPECSKTANDAIQDMLCDMEGLPQKHNF SHCCGKAGFPRRLCFFYNKKANVGFLLPPFP
 TLDPEEKQAYKNNSSEFLHLYMYEVARRNPFVFAVLLAVAAWFEEAATTCCEQQKATCFQAKAAPIT
 QYLKASSYQRNVCGALIKFGPKVLSINAVFSKKFPKIGFKDLTTLLEDVSSMYEGCCEGDVVHCIRN
 QSQVNVHICSKQDSVSSKIKVCCCKKILEREACIINANKDDRPEGLSLREAKFTESENVQERDSDPKF
 FAEFIYEYSRRHPDLSTPELLRITKVYMDFLDCCSRENPAAGCYRHVEDKFNETTQRSLAMVQEQCKQFQ
 ELGKDTLQRHFLVKFTKAAPQLPMEELVSLSKEMVAALTTCTLSDEFACVDNLADLVLGELCGVNTNRT
 INPAVDHCCKTDFAFRRHCFEHLKADTTYELPSVSALVSALHTDWCQPRKEDLQNKKHRFLVNLVKWMPG
 ITDEEWLCLFTKFTAAREECSEVQEPESCFSPESKKTGDESQATEKQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145146

ORF Size: 1827 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:

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_145146.2](#), [NP_660128.2](#)

RefSeq Size: 2048 bp

RefSeq ORF: 1827 bp

Locus ID: 280662

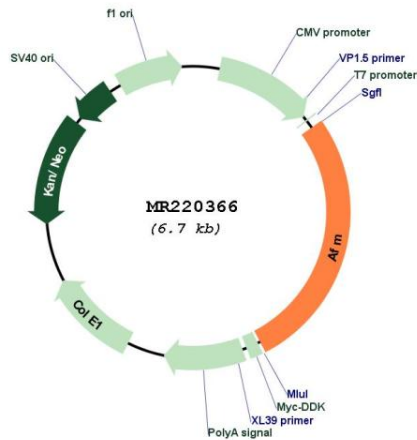
UniProt ID: [O89020](#)

Cytogenetics: 5 E1

MW: 69.4 kDa

Gene Summary: Functions as carrier for hydrophobic molecules in body fluids. Essential for the solubility and activity of lipidated Wnt family members, including WNT1, WNT2B, WNT3, WNT3A, WNT5A, WNT7A, WNT7B, WNT8, WNT9A, WNT9B, WNT10A and WNT10B. Binds vitamin E. May transport vitamin E in body fluids under conditions where the lipoprotein system is not sufficient. May be involved in the transport of vitamin E across the blood-brain barrier. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220366