

## Product datasheet for **MG220366**

### Afm (NM\_145146) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Afm (NM_145146) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Afm
Synonyms:	Alf; alpha-Alb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220366 representing NM\_145146  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGACACTTAAAACCTACAGGTTTTATTTTTCTGTGCCTTTGACTGAATCCCTAGCCCTACCCA  
 CAAAGCCTCAGGACGTAGATCATTTC AATGCTACCCAGAAATTCATAGATGAGAACACGACATACCTGGC  
 CATCATCGCGTTTTCCAGTATGTCAGGAAGCATCCTTTGATGAGGTGGAAACGCTGGTAAAAGTCATG  
 CTGGATTACAGGGATAGGTGCTGGGCTGACAACACACTCCAGAGTGTTCAAAGACAGCTAATGACGCTA  
 TCCAGGACATGTTATGTGACATGGAGGGACTGCCGCAGAAGCACAACCTTTCTCATTGCTGCGGAAAGC  
 CGGCTTCCAAGAAGACTCTGTTTCTTCTACAACAAGAAAGCTAATGTAGGATCTTGCCCCCTTCCCC  
 ACTCTGGATCCAGAAGAGAAATGCCAAGCTTATAAAAAAACAGTGAATCTTTTCTACACCTCTATATGT  
 ATGAGGTTGCCAGAAGGAACCCCTTTGTCTTCGCCCCGTTCTTCTAGCCGTGGCTGCTTGGTTTGAGGA  
 GGCAGCGACCACATGTTGTGAACAGCAACAGAAAGCCACCTGCTTCAAGCCAAGGCAGCCCCCATCACA  
 CAATATTTAAAAGCATCATCTTCTTATCAAAGAAATGTTTGTGGAGCCCTTATAAAGTTTGACCCAAGG  
 TCTTAAACTCTATAAACGTTGCTGTATTCAAGTAAAAAATCCCCAAGATTGGATTTAAGGACCTTACCAC  
 CCTCTTAGAAGATGTTTCTTCCATGTATGAAGGATGCTGTGAAGGAGATGTTGTGCACTGCATCCGAAAC  
 CAGAGCCAGGTTGTGAACCATATTTGTTCAAACAAGATTCCTGCTCAAGTAAAACAAAGTGTGCTGCG  
 AAAAGAAGATCCTAGAACGTGAAGCCTGTATAATTAATGCAAATAAAGACGACAGACCGGAGGGCTTATC  
 TCTCAGAGAAGCCAAATCACTGAGAGCGAAAAATGTGTGTCAAGAACGAGATTCTGACCCGGACAAGTTC  
 TTTGCTGAGTTTATTTATGAATACTCCAGGAGACATCCTGACCTGTCTACACCAGAGCTCCTAAGAATTA  
 CTAAGTGTATATGGACTTCTTAGAAGACTGCTGCAGCAGAGAAAAACCCAGCAGTTGTTACCGCCATGT  
 GGAGGATAAATCAATGAGACAACCTCAGCGAAGCCTTGAATGGTGCAGCAGGAGTGCAAACAGTTCACG  
 GAGCTGGGAAGGACACTCTGCAGCGCCATTTCTTGTCAAGTTCACCAAGGCAGCCCTCAGCTCCCCA  
 TGAAGAAGTGGTCTCCCTTAGTAAGGAAATGGTGGCAGCTCTGACAACCTGTTGCACTCTCAGTGACGA  
 GTTCGCTGCGTTGACAACCTGGCAGATTTAGTCTTGGAGAGTTATGTGGGTAATAACAATCGAACT  
 ATCAATCTGCTGTGGATCACTGCTGCAAAACAGACTTCGCCTTCAGAAGACACTGCTTTGAGCATCTGA  
 AAGCTGATACAACGTATGAGCTCCATCAGTCTCCGCACTGTATCTGCTTGCATACAGACTGGTGCA  
 GCCTCGTAAGGAGACCTTCAGAATAAGAAACACAGGTTTCTGGTCAACTGGTGAAGTGGATGCCAGGG  
 ATCACGGATGAGGAGTGGCTGTGCTTGTTCACAAAGTTCAGTCTGCCAGGGAGGAGTGCAGCGAAGTGC  
 AGGAGCCTGAGTCTGTTTCAGTCCAGAGAGTTCAAAAACCTGGTGACGAAAGTCAAGCTACAGAGAAACA  
 AAGA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG220366 representing NM\_145146  
 Red=Cloning site Green=Tags(s)

MRHLKLTGFIFFLLPLTESLALPTKPQDVFHFNATQKFIDENTTYLAIIFSQYVQEQEASFDEVETLVKVM  
 LDYRDRCWADNTLPECSKTANDAIQDMLCDMEGLPQKHNF SHCCGKAGFPRRLCFFYNKKANVGFLLPPFP  
 TLDPEEKQAYKNNSSEFLHLYMYEVARRNPFVFAVLLAVAAWFEEAATTCCEQQKATCFQAKAAPIT  
 QYLKASSYQRNVCGALIKFGPKVLNSINAVFSKFKPKIGFKDLTTLLEDVSSMYEGCCEGDVVHCIRN  
 QSQVYVNHICSKQDSVSSKIKVCCEKKILEREACIINANKDDRPEGLSLREAKFTESENVQERDSDPKF  
 FAEFIYEYSRRHPDLSTPELLRITKVYMDFLDCCSRENPAFCYRHVEDKFNETTQRSLAMVQEQECKQFQ  
 ELGKDTLQRHFLVKFKAAPQLPMEELVLSKEMVAALTTCTLSDEFACVDNLADLVLGELCGVNTNRT  
 INPAVDHCCCKTDFAFRRHCFEHLKADTTYELPSVSALVSLHTDWCQPRKEDLQNKKHRFLVNLVKWMPG  
 ITDEEWLCLFTKFTAAREECSEVQEPESCFSPESKGTGDESQATEKQR

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

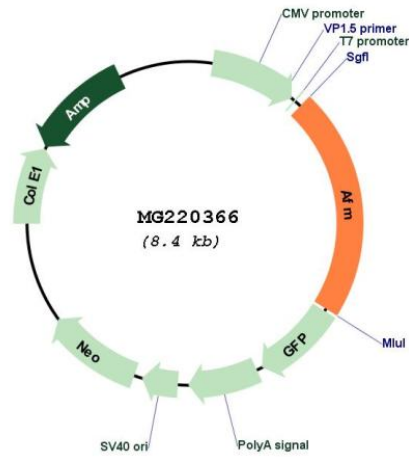
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_145146  
 ORF Size: 1824 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_145146.2</a> , <a href="#">NP_660128.2</a>
<b>RefSeq Size:</b>	2048 bp
<b>RefSeq ORF:</b>	1827 bp
<b>Locus ID:</b>	280662
<b>UniProt ID:</b>	<a href="#">O89020</a>
<b>Cytogenetics:</b>	5 E1
<b>Gene Summary:</b>	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]