

Product datasheet for **RC228789**

AFAF (EQTN) (NM_001161585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AFAF (EQTN) (NM_001161585) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AFAF
Synonyms:	AFAF; C9orf11; SPACA8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228789 representing NM_001161585 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGAATTTTATATTGTTTATTTTTATACCTGGAGTTTTTTCCTTAAAAAGTAGCACTTTGAAGCCTACTA
TTGAAGCATTGCCTAATGTGCTACCTTTAAATGAAGATGTTAATAAGCAGGAAGAAAAGAATGAAGATCA
TACTCCCAATTATGCTCCTGCTAATGAGAAAAATGGCAATTATTATAAAGATATAAAACAATATGTGTTCC
ACAACACAAAATCAAAATGGCACTGAGTCTGAAATATCTGTGAGAGCCACAACCTGACCTGAATTTTGCTC
TAAAAAACGGATCAACCCAAACGTGCCTGCATTTTGGACAATGTTAGCTAAAGCTATAAATGGAACAGC
AGTGGTCATGGATGATAAAGATCAATTATTTACCCAATTCAGAGTCTGATGTGAATGCTACACAGGGA
GAAAATCAGCCAGATCTAGAGGATCTGAAGATCAAAAATATGCTGGGAATCTCGTTGATGACCCTCCTCC
TCTTTGTGGTCTCTTGGCATTCTGTAGTGCTACACTGTACAAACTGAGGCATCTGAGTTATAAAAGTTG
TGAGAGTCAGTACTCTGTCAACCCAGAGCTGGCCACGATGTCTTACTTTTCATCCATCAGAAGGTGTTTCA
GATACATCCTTTTCCAAGAGTGCAGAGAGCAGCACATTTTGGGTACCCTTCTTCAGATATGAGAAGAT
CAGGCACAAGAACATCAGAATCTAAGATAATGACGGATATCATTCCATAGGCTCAGATAATGAGATGCA
TGAAAACGATGAGTCGGTTACCCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228789 representing NM_001161585
Red=Cloning site Green=Tags(s)

MNFILFIFIPGVFSLKSSTLKPTIEALPNVLPLNEDVKNQEEKNEDHTPNYAPANEKNGNYYKDIKQYVF
 TTQNPNGTESEISVRATTDLNFALKNGSTPNVPAFWTMLAKAINGTAVVMDDKDLFHPIPESDVNATQG
 ENQPDLEDLKIKIMLGISLMTLLLFVLLAFCSATLYKLRHLSYKSCESQYSVNPPELATMSYFHPSEGVS
 DTSFSKSAESSTFLGTTSSDMRRSGTRTSEKIMTDIISIGSDNEMHENDESIVTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1495_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001161585

ORF Size: 795 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_001161585.1](#), [NP_001155057.1](#)

RefSeq ORF: 798 bp

Locus ID: 54586

UniProt ID: [Q9NQ60](#)

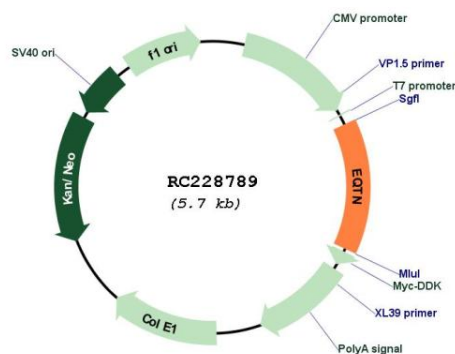
Cytogenetics: 9p21.2

Protein Families: Transmembrane

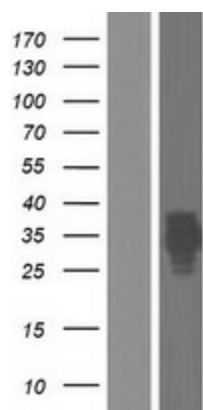
MW: 29.3 kDa

Gene Summary: Acrosomal membrane-anchored protein involved in the process of fertilization and in acrosome biogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC228789



Western blot validation of overexpression lysate (Cat# [LY431817]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228789 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).