

Product datasheet for **RC210668**

AIF (AIFM1) (NM_145812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIF (AIFM1) (NM_145812) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AIF
Synonyms:	AIF; AUNX1; CMT2D; CMTX4; COWCK; COXPD6; DFNX5; NADMR; NAMSD; PDCD8; SEMDHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210668 representing NM_145812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

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Protein Sequence:

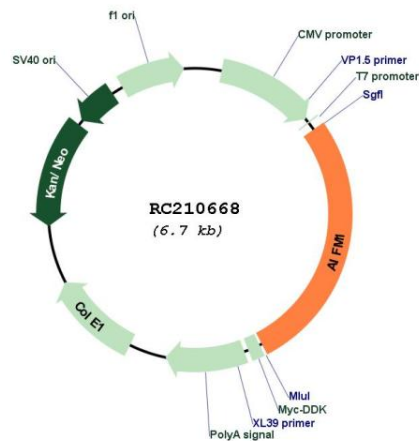
>RC210668 representing NM_145812
 Red=Cloning site Green=Tags(s)

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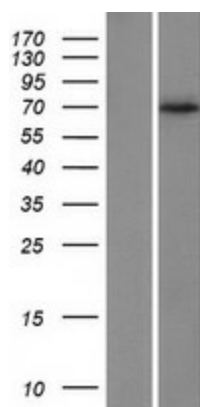
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Locus ID:	9131
UniProt ID:	O95831
Cytogenetics:	Xq26.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Apoptosis
MW:	66.1 kDa
Gene Summary:	This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it is found in the mitochondrial intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it affects chromosome condensation and fragmentation. In addition, this gene product induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. Mutations in this gene cause combined oxidative phosphorylation deficiency 6 (COXPD6), a severe mitochondrial encephalomyopathy, as well as Cowchock syndrome, also known as X-linked recessive Charcot-Marie-Tooth disease-4 (CMTX-4), a disorder resulting in neuropathy, and axonal and motor-sensory defects with deafness and cognitive disability. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 10. [provided by RefSeq, Aug 2015]

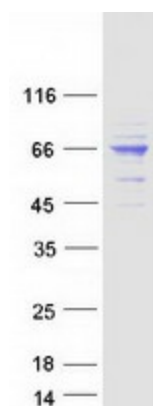
Product images:



Circular map for RC210668



Western blot validation of overexpression lysate (Cat# [LY407552]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210668 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AIFM1 protein (Cat# [TP310668]). The protein was produced from HEK293T cells transfected with AIFM1 cDNA clone (Cat# RC210668) using MegaTran 2.0 (Cat# [TT210002]).