

Product datasheet for RC216357L4V

OriGene Technologies, Inc.

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AIF (AIFM1) (NM_145813) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: AlF (AlFM1) (NM_145813) Human Tagged ORF Clone Lentiviral Particle

Symbol: AIFM1

Synonyms: AIF; CMT2D; CMTX4; COWCK; COXPD6; NADMR; NAMSD; PDCD8

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_145813

ORF Size: 978 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC216357).

Sequence:

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.

RefSeq: <u>NM 145813.1</u>

RefSeq Size: 1354 bp
RefSeq ORF: 981 bp
Locus ID: 9131
Cytogenetics: Xq26.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Apoptosis MW: 35.5 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]