

Product datasheet for **SC324345**

AIF (AIFM1) (NM_145812) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIF (AIFM1) (NM_145812) Human Untagged Clone
Tag:	Tag Free
Symbol:	AIF
Synonyms:	AIF; AUNX1; CMT2D; CMTX4; COWCK; COXPD6; DFNX5; NADMR; NAMSD; PDCD8; SEMDHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_145812, the custom clone sequence may differ by one or more nucleotides

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ATGTTCCGGTGTGGAGGCTGGCGGCGGGTGTCTTGAAGCAGAAGCTGGTGCCCTTGGTGCGGACCGTGT
GCGTCCGAAGCCCGAGGCAGAGGAACCGGCTCCCAGTTGTGCAGTCTCATCACCTAGGATCCCCTTCTAG
ATCACTAGCATCTACAGGTGCTTCTGGAAAGATGGCAGCAACCTAGTGTACTTCTTAATTGTAGGAGCA
ACAGTCACTGGGGCAGGAGTTTATTATGCCTACAAGACTATGAAAGAGGATGAAAAAAGATACAATGAAA
GAATTTACAGGTTAGGGCTGACACCAGAACAGAAAACAGAAAAAGGCCGCTTATCTGCTTCAAGAGAGA
GGAAGTTCCTCAAGACAAGGCGCAAGTCATGTTCTTTCTGCTAATTGGTGGAGGCACAGCTGCTTTT
GCTGCAGCCAGATCCATCCGGGCTCGGGATCCTGGGGCCAGGGTACTGATTGTATCTGAAGATCCTGAGC
TGCCGTACATGCGACCTCTTTCAAAGAAGTGTGGTTTTTCAGATGACCCAAATGTCACAAAGACT
GCGATTCAAACAGTGAATGGAAAAGAGAGAAGCATATATTTCCAGCCACCTTCTTTCTATGTCTCTGCT
CAGGACCTGCCTCATATTGAGAATGGTGGTGTGGCTGCCTCACTGGGAAGAAGGTAGTACAGCTGGATG
TGAGAGACAACATGGTGAACCTAATGATGGCTCTCAAATAACCTATGAAAAGTCTTGATTGCAACAGG
AGGTACTCCAAGAAGTCTGTCTGCCATTGATAGGGCTGGAGCAGAGGTGAAGAGTGAACAACGCTTTTC
AGAAAGATTGGAGACTTTAGAAGCTTGGAGAAGATTTACGCGGAAGTCAATCAATTACGATTATCGGTG
GGGGCTTCTTGGTAGCGAACTGGCCTGTGCTCTTGGCAGAAAGGCTCGAGCCTTGGGCACAGAAGTGAT
TCAACTTTCCTCCGAGAAAGGAAATATGGGAAAGATCCTCCCGAATACCTCAGCAACTGGACCATGGAA
AAAGTCAGACGAGAGGGGGTTAAGGTGATGCCCAATGCTATTGTGCAATCCGTTGGAGTCAGCAGTGGCA
AGTTACTTATCAAGCTGAAAGACGGCAGGAAGGTAGAACTGACCACATAGTGGCAGCTGTGGCCCTGGA
GCCCAATGTTGAGTTGGCCAAGACTGGTGGCCTGGAAATAGACTCAGATTTTGGTGGCTTCCGGGTAAT
GCAGAGCTACAAGCACGCTTAACATCTGGGTGGCAGGAGATGCTGCATGCTTCTACGATAAAAGTTGG
GAAGGAGCGGGTAGAGCACCATGATCACGCTGTTGTGAGTGGAAAGATTGGCTGGAGAAAAATGACTGG
AGCTGCTAAGCCGTAAGTGCATCAGTCAATGTTCTGGAGTGATTTGGGCCCGATGTTGGCTATGAAGCT
ATTGGTCTTGTGGACAGTAGTTTGGCCACAGTTGGTGTGTTTTGCAAAAGCAACTGCACAAGACAACCCCA
AATCTGCCACAGAGCAGTCAGGAACTGGTATCCGATCAGAGAGTGAGACAGAGTCCGAGGCCCTCAGAAAT
TACTATTCTCCAGCACCCCGGAGTTCCACAGGCTCCCGTCCAGGGGGAGGACTACGGCAAAGGTGTC
ATCTTCTACCTCAGGGACAAAGTGGTCGTGGGATTGTGCTATGGAACATCTTTAACCGAATGCCAATAG
CAAGGAAGATCATTAAAGGACGGTGAAGCAGCATGAAGATCTCAATGAAGTAGCCAAACTATTCAACATTCA
TGAAGACTGA
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Restriction Sites: Please inquire

ACCN: NM_145812

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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_145812.1 , NP_665811.1
RefSeq Size:	2203 bp
RefSeq ORF:	1830 bp
Locus ID:	9131
UniProt ID:	O95831
Cytogenetics:	Xq26.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Apoptosis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon but contains a different in-frame exon in the 5' coding region, compared to variant 1, resulting in an isoform (AIF-exB) that is shorter than isoform AIF.</p>