

Product datasheet for **RC206844**

AIG1 (NM_016108) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIG1 (NM_016108) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AIG1
Synonyms:	AIG-1; dj95L4.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206844 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTTGCCCTGCCAGGTGCTGCGGATGGCAATCCTGCTGTCTTACTGCTCTATCCTGTGTAAC
ACAAGGCCATCGAAATGCCCTCACACCAGACCTACGGAGGGAGCTGAAATTCCTGACGTTCAATGATCT
GGTTATCCAGGCTGTCTTTTTGGCATCTGTGTGCTGACTGATCTTCCAGTCTTCTGACTCGAGGAAGT
GGGAACCAGGAGCAAGAGAGGCAGCTCAAGAAGCTCATCTCTCCGGGACTGGATGTTAGCTGTGTTGG
CCTTCTGTTGGGTTTTTGTGTAGCAGTGTCTGGATCATTATGCCTATGACAGAGAGATGATATA
CCGAAGCTGCTGGATAATTTATCCAGGGTGGCTGAATCACGGAATGCACACGACGGTTCTGCCCTTT
ATATTAATCGAGATGAGGACATCGACCATCAGTATCCAGCAGGAGCAGCGGACTTACCGCCATATGTA
CCTTCTGTTGGCTATATATTGGGTGTGCTGGGTGCATCATGTAACGGCATGTGGGTGTACCCCTT
CCTGGAACACATTGGCCAGGAGCCAGAATCATCTTCTTGGGTCTACAACCATCTTAATGAACTTCCTG
TACCTGCTGGGAGAAGTTCTGAACAACTATATCTGGGATACACAGAAAAGTATGGAAGAAGAGAAA
AGCCTAAATTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206844 protein sequence
 Red=Cloning site Green=Tags(s)

MALVPCQVLRMAILLSYCSILCNKYKAIEMPSHQTYGGSWKFLTFIDLVIQAVFFGICVLTDLSSLLTRGS
 GNQEQRQLKKLISLRDWMLAVLAFPVGVFVAVFWIIYAYDREMIYPKLLDNFIPGWLNHGMHTTVLPF
 ILIEMRTSHHQYPSRSSGLTAICTFSVGYILWVCWVHHVTGMWVYPFLEHIGPGARIIFFGSTTILMNFL
 YLLGEVLNNYIWDTKSMEEEEKPKLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6433_b05.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_016108

ORF Size: 714 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_016108.4](#)

RefSeq Size: 1479 bp

RefSeq ORF: 717 bp

Locus ID: 51390

UniProt ID: [Q9NVV5](#)

Cytogenetics: 6q24.2

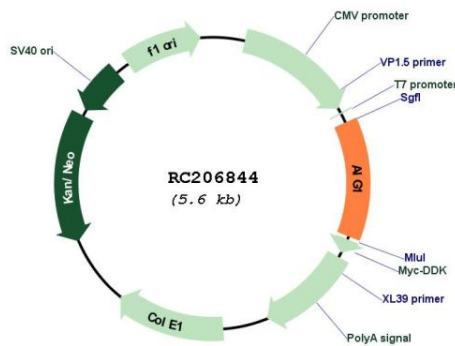
Domains: Far-17a_AIG1

Protein Families: Transmembrane

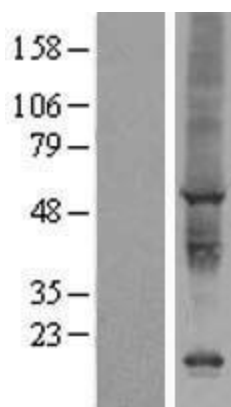
MW: 27.5 kDa

Gene Summary: May play a role in androgen-regulated growth of hair follicles.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206844



Western blot validation of overexpression lysate (Cat# [LY414183]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206844 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).