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Product datasheet for SC108920

Iba1 (AIF1) (NM_032955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Iba1 (AIF1) (NM_032955) Human Untagged Clone
Tag:	Tag Free
Symbol:	Iba1
Synonyms:	AIF-1; IBA1; IRT-1; IRT1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

```
>OriGene ORF within SC108920 sequence for NM_032955 edited (data generated by NextGen Sequencing)
ATGGAGTTTGACCTTAATGGAAATGGCGATATTGATATCATGTCCCTGAAACGAATGCTG
GAGAAACTTGGAGTCCCCAAGACTCACCTAGAGCTAAAGAAATTAATTGGAGAGGTGTCC
AGTGGCTCCGGGGAGACGTTCAGCTACCCTGACTTTCTCAGGATGATGCTGGGCAAGAGA
TCTGCCATCCTAAAAATGATCCTGATGTATGAGGAAAAAGCGAGAGAAAAGGAAAAGCCA
ACAGGCCCCCCAGCCAAGAAAGCTATCTCTGAGTTGCCCTGA

Clone variation with respect to NM_032955.1
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_032955 unedited
NGGGTGCACATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCA
ACCCCTTCCTCAGTCCCCGGCTGAAAACCCTCGAGTCAGCGCTTATCCCTTCTGCTCTCT
CCCCTCACCCAGAGAAATACATGGAGTTTGACCTTAATGGAAATGGCGATATTGATATCA
TGTCCCTGAAACGAATGCTGGAGAAACTTGGAGTCCCCAAGACTCACCTAGAGCTAAAGA
AATTAATTGGAGAGGTGTCCAGTGGCTCCGGGGAGACGTTCAGCTACCCTGACTTTCTCA
GGATGATGCTGGGCAAGAGATCTGCCATCCTAAAAATGATCCTGATGTATGAGGAAAAAG
CGAGAGAAAAGGAAAAGCCAACAGGCCCCCCAGCCAAGAAAGCTATCTCTGAGTTGCCCT
GATTTGAAGGGAAAAGGGATGATGGGATTGAAGGGGCTTCTAATGACCCAGATATGGAAA
CAGAAGACAAAATTGTAAGCCAGAGTCAACAAATTAAATAAATTACCCCCTCCTCCAGAT
CANANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGAGACTAGTTCTCCTCTAGATTG
CGGCCGCGGTCATAGCTGTTTCCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCC
CAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCCACCAGCCTTGTCCTAATAA
AATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATATATTATGGGGTGGAGGGG
GGGTGGTATGGAGCAAGGNGCAAGTNGGGAAGNACACCTGTANGGCCTGNCGGGTCTATT
GGGAACCAGCTGGAGTGCAGTGGCACAATCTTGGCTCACTGNCATCTCCGCTCCTGGGGT
CAGCGATTTNCTGCCTCAGCTNCCCGAGTGTTG
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_032955 unedited
NGTCCTAGCTTGCCCGCGCCCGCAATCTANAGNANAACTAGTCTCGGTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTGATCCGGAGGAGGGGGTAATTTATTTAATTTGTTGACTCT
GGCTTACAATTTTGTCTTCTGTTTCCATATCTGGGTCATTAAAAGCCCCTTCAATCCCAT
CATCCCTTTTCCCTTCAAATCAGGGCAACTCAAAAATAGCTTTCTTGGCTGGGGGGCCTG
GTGGCTTTTCCTTTTCTCTCGCTTTTTCCTCATACATCAGGATCATTTTTAGGATGGCAG
ATCTCTTGCCCAGCATCATCCTGAGAAAGTCAGGGTAGCTGAACGTCTCCCCGGAGCCAC
TGGACACCTCTCCAATTAATTTCTTTAGCTCTAGGTGAGTCTTGGGGACTCCAAGTTTCT
CCAGCATTCGTTTCAGGGACATGATATCAATATCGCCATTTCCATTAAGGGCAAACTCCA
TGTATTTCTCTGGGTGAGGGGAGAGAGCAAAAGGGATAAGCGCTGACTCGAGGGTTTTCA
GCCGGGGACTGAGGAAGGGGTTGCCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTC
GTATTACAAAATTCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCCACCGTA
CACGCCTACCGCCCATTTGCGTCAACGGGGCGGGGCTATTACGACATTTTGGAAAGCCCC
GTTGATTTTGGTGCCAAAACAAACTCCCATTGACGTCAATGGGGTGGAGACTCGGAAATC
CCCGTGAGTCAAACCGCTATCCAGCCCATTGTTGTACTGGCAAACCGCATACCCTGTAAT
ACCGATGACTATACGTAAATGTACTGCCAGTACGAAAGTC
```

Restriction Sites:	NotI-NotI
ACCN:	NM_032955
Insert Size:	600 bp
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).
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_032955.1, NP_116573.1
RefSeq Size:	503 bp
RefSeq ORF:	282 bp
Locus ID:	199
UniProt ID:	P55008
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome

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Gene Summary: This gene encodes a protein that binds actin and calcium. This gene is induced by cytokines and interferon and may promote macrophage activation and growth of vascular smooth muscle cells and T-lymphocytes. Polymorphisms in this gene may be associated with systemic sclerosis. Alternative splicing results in multiple transcript variants, but the full-length and coding nature of some of these variants is not certain. [provided by RefSeq, Jan 2016] Transcript Variant: This variant (1, also known as G1) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon compared to variant 3. The encoded isoform (1) has a shorter N-terminus than isoform 3. Variants 1 and 4 encode the same isoform (1).

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