

Product datasheet for **SC300062**

AIRE (NM_000383) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIRE (NM_000383) Human Untagged Clone
Tag:	Tag Free
Symbol:	AIRE
Synonyms:	AIRE1; APECED; APS1; APSI; PGA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC300062 representing NM_000383.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

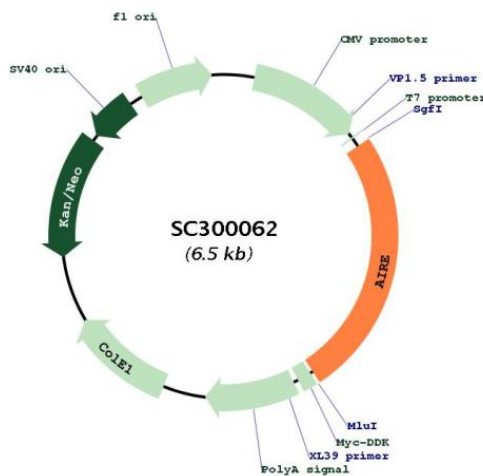
```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGACGAGCGCGGCTACGCCGGCTTCTGAGGCTGCACCGCACGGAGATCGCGGTGGCCGTGGAC
AGCGCCTTCCCCTGCTGCACCGCTGGCTGACCACGACGTGGTCCCCGAGGACAAGTTTACAGGAGACG
CTTCATCTGAAGAAAAGGAGGGCTGCCCCAGGCCTTCCACGCCCTCCTGTCTGGCTGCTGACCCAG
GACTCCACAGCCATCCTGGACTTCTGGAGGTGCTGTTCAAGGACTACAACCTGGAGCGCTATGGCCGG
CTGCAGCCATCCTGGACAGTTCCCAAAAGATGTGGACCTCAGCCAGCCCCGGAAGGGGAGGAAGCCC
CCGGCCGTCCCAAGGCTTTGGTACCGCCACCCAGACTCCCACCAAGAGGAAGGCTCAGAAGAGGCT
CGAGTGC CGCGCCAGCAGCCCTGACTCCAAGGGGCACCGCCAGCCAGGCTCTCAACTGAAGGCCAAG
CCCCCAAGAAGCCGGAGAGCAGCGCAGAGCAGCAGCGCCTTCCACTCGGGAACGGGATTCAGACCATG
TCAGTTCAGTCCAGAGAGCTGTGGCCATGTCTCCGGGACGTCCGGGAGCCCAGGGGCCGTGGAG
GGGATCCTCATCCAGCAGGTGTTTGAGTCAGCGGCTCCAAGAAGTGCATCCAGGTTGGCGGGGAGTTC
TAACTCCAGCAAGTTCGAAGACTCCGGCAGTGGGAAGAACAAGGCCCGCAGCAGCAGTGGCCCGAAG
CCTCTGGTTTCAGCCAAGGGAGCCAGGGCGCTGCCCCCGGTGGAGGTGAGGCTAGGCTGGCCAGCAG
GGCAGCGTTCCCGCCCTCTGGCCCTCCCAGTGACCCCAAGTCCACCAGAAGAATGAGGACGAGTGT
GCCGTGTGTGGGACGGCGGGGAGCTCATCTGCTGTGACGGTGCCTCGGGCTTCCACCTGGCCCTGC
CTGTCCCTCCGCTCCGGGAGATCCCAGTGGGACCTGGAGGTGCTCCAGTGCCTGCAGGCAACAGTC
CAGGAGGTGCAGCCCCGGGCAGAGGAGCCCGGCCCCAGGAGCCACCCGTGGAGACCCCGCTCCCCCG
GGGCTTAGTTCGGCGGGAGAGGAGGTAAAGAGTCCACCTGGGGAACCCCTAGCCGGCATGGACACGACT
CTTGTCTACAAGCACCTGCCGGCTCCGCCTTCTGCAGCCCGCTGCCAGGGCTGGACTCCTCGCCCTG
CACCCCTACTGTGTGGGTCTGAGGGTCAGCAGAACCTGGCTCCTGGTGC GGCTTGGCGGGTGTGC
GGAGATGTTACGGACGTGCTGCGGTGACTCACTGCGCCGCTGCCTTCCACTGGCGCTGCCACTTCCCA
GCCGCACCTCCCGGCCCGGGACGGCCCTGCGCTGCAGATCCTGCTCAGGAGACGTGACCCAGCCCT
GTGGAGGGGGTGTGGCCCCAGCCCCGCCCGCTGGCCCTGGGCTGCCAAGGATGACTGCCAGT
CACGAGCCGCTCTGCACAGGGATGACCTGGAGTCCCTTCTGAGCGAGCACACCTTCGATGGCATCTG
CAGTGGCCATCCAGAGCATGGCCGTCCGGCGGCCCTTCCCCTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
```

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN:	NM_000383
Insert Size:	1638 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).
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:	<u>NM_000383.3</u>
RefSeq Size:	2299 bp
RefSeq ORF:	1638 bp
Locus ID:	326
UniProt ID:	<u>O43918</u>
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome
Protein Pathways:	Primary immunodeficiency, Ubiquitin mediated proteolysis
MW:	57.7 kDa
Gene Summary:	This gene encodes a transcriptional regulator that forms nuclear bodies and interacts with the transcriptional coactivator CREB binding protein. The encoded protein plays an important role in immunity by regulating the expression of autoantigens and negative selection of autoreactive T-cells in the thymus. Mutations in this gene cause the rare autosomal-recessive systemic autoimmune disease termed autoimmune polyendocrinopathy with candidiasis and ectodermal dystrophy (APECED). [provided by RefSeq, Jun 2012]