

Product datasheet for **RG216971**

AIRE (NM_000658) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIRE (NM_000658) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AIRE
Synonyms:	AIRE1; APECED; APS1; APSI; PGA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216971 representing NM_000658 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTTGGTGTACAGTTCGGGGCCCTGGAACGCAGCAGCCTGCAAGAAACCGGTTTTCTCCCAA
TAGGGATGGCCCCGGGGGTGTCTGTTGGAGACCAGATGGATGGGAACAGGTGGTCAGGGCAGAATTC
AGGCCCTGGCAGCATGGGAGCAGGGCAGAGACTGGGGAGTTCAGGTACCCAGAGATGCTGCTGGGGAGC
TGTTTTGGGAAGGAGGTGGCTCTCAGGAGGTGCTGCACCCAGCCAGTCTGCATGGGCGTCTCTTGCC
TGTGCCAGAAGAATGAGGACGAGTGTGCCGTGTGTCGGGACGGCGGGAGCTCATCTGCTGTGACGGCTG
CCCTCGGGCCTTCCACCTGGCCTGCCTGTCCCCTCCGCTCCGGGAGATCCCAAGTGGGACCTGGAGGTGC
TCCAGCTGCCTGCAGGAACAGTCCAGGAGGTGCAGCCCCGGGCAGAGGAGCCCCGGCCCCAGGAGCCAC
CCGTGGAGACCCCGCTCCCCCGGGGCTTAGGTCCGGCGGGAGAGGAGGTAAGAGGTCCACCTGGGAAAC
CCTAGCCGGCATGGACACGACTTTGTCTACAAGCACCTGCCGGCTCCGCCTTCTGCAGCCCCGCTGCCA
GGGCTGGACTCCTCGGCCCTGCACCCCTACTGTGTGTGGGTCTGAGGGTCAGCAGAACCTGGCTCCTG
GTGCGGTTGCGGGGTGTGCGGAGATGGTACGGACGTGCTGCGGTGACTCACTGCGCCGCTGCCTTCCA
CTGGCGCTGCCACTTCCCAGCCGGCACCTCCCAGCCGGGACGGGCTGCGCTGCAGATCCTGCTCAGGA
GACGTGACCCAGCCCTGTGGAGGGGTGCTGGCCCCAGCCCCGCGCCGCTGGCCCCCTGGGCTGCCA
AGGATGACACTGCCAGTACAGGCCGCTCTGCACAGGATGACCTGGAGTCCCTTCTGAGCGAGCACAC
CTTCGATGGCATCCTGCAGTGGCCATCCAGAGCATGGCCGCTCCGGCGGCCCTTCCCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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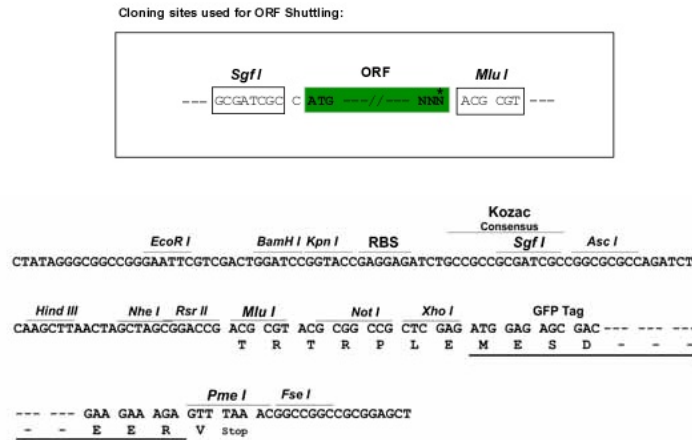
Protein Sequence: >RG216971 representing NM_000658
Red=Cloning site Green=Tags(s)

MWL VYSSGAPGTQQPARNRVFFPIGMAPGGVCWRPDGWTGGQGRISGPGSMGAGQRLGSSGTQRCCWGS
 CFGKEVALRRVLHPSPVCMGVSLCQKNEDECAVCRDGGELICCDGCPRAFHLACLSPPLREIPSGTWRC
 SSCLQATVQEVQPRAEPRPQEPVETPLPPGLRSAGEEVRGPPGEPLAGMDTTLVYKHL PAPP SAAPLP
 GLDSSALHPLL CVGPEGQQLAPGARCVCGDGDVLRCTHCAAFFHWRCHFPAGTSRPGTGLRCRSCSG
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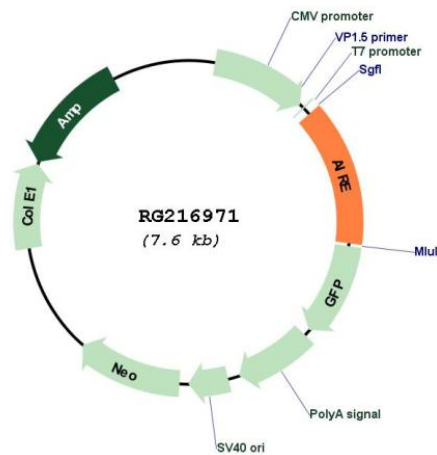
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_000658

ORF Size: 1044 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:	<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_000658.2 , NP_000649.1
RefSeq Size:	1545 bp
RefSeq ORF:	1046 bp
Locus ID:	326
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome
Protein Pathways:	Primary immunodeficiency, Ubiquitin mediated proteolysis
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]