

## Product datasheet for TP313497L

### AIRE (NM\_000383) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human autoimmune regulator (AIRE), transcript variant AIRE-1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213497 representing NM_000383 Red=Cloning site Green=Tags(s)

MATDAALRRLRLHRTEIAVAVDSAPLLHALADHDVVPEDKVFQETLHLKEKEGCPQAFHALLSWLLTQD  
STAILDFWRVLFKDYNLERYGRLQPIILDSFPKDVLDLSQPRKGRKPPAVPKALVPPPRLPTKRKASEEARA  
AAPAALTPRGTASPGSQLKAKPPKPESSAEQRLPLGNGIQTMSASVQRAVAMSSGDVPGARGAVEGIL  
IQQVFESGSKKCIQVGGFYTSPKFEDESGSGKKNARSSSGPKPLVRAKGAQGAAPGGGEARLQQGQSV  
APLALPSPDQLHQKNEDECAVCRDGGELICCDGCPRAFHLACLSPPLREIPSGTWRCSSCLQATVQEVQP  
RAEPRPQEPVETPLPPGLRSAGEEVRGPPGEPLAGMDTTLVYKHLAPPSSAAPLGLDSSALHPLLCV  
GPEGQQNLAPGARGCGDGDVLRCTHCAAFAHWRCHFPAGTSRPGTGLRCRSCSGDVTAPVEGVLP  
SPARLAPGPAKDDTASHEPALHRDDLESLLSEHTFDGILQWAIQSMARPAAPFPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	57.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_000374](#)

Locus ID: 326

UniProt ID: [Q43918](#)

RefSeq Size: 2252

Cytogenetics: 21q22.3

RefSeq ORF: 1635

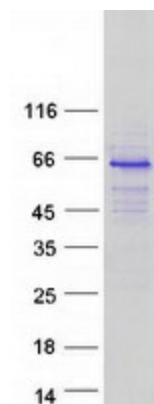
Synonyms: AIRE1; APECED; APS1; APSI; PGA1

**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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Primary immunodeficiency, Ubiquitin mediated proteolysis

### Product images:



Coomassie blue staining of purified AIRE protein (Cat# [TP313497]). The protein was produced from HEK293T cells transfected with AIRE cDNA clone (Cat# [RC213497]) using MegaTran 2.0 (Cat# [TT210002]).