

Product datasheet for MR226851L4V

Aire (NM 009646) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles Product Name: Aire (NM_009646) Mouse Tagged ORF Clone Lentiviral Particle Symbol: Aire MGC123374; MGC123375 Synonyms: **Mammalian Cell** Puromycin Selection: Vector: pLenti-C-mGFP-P2A-Puro (PS100093) mGFP Tag: NM 009646 ACCN: ORF Size: 1653 bp The ORF insert of this clone is exactly the same as(MR226851). **ORF** Nucleotide Sequence: **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. **RefSeq:** NM 009646.1, NP 033776.1 **RefSeq Size:** 1993 bp **RefSeq ORF:** 1659 bp Locus ID: 11634 **UniProt ID:** Q9Z0E3 Cytogenetics: 10 39.72 cM



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Transcription factor playing an essential role to promote self-tolerance in the thymus by Gene Summary: regulating the expression of a wide array of self-antigens that have the commonality of being tissue-restricted in their expression pattern in the periphery, called tissue restricted antigens (TRA) (Probable). Binds to G-doublets in an A/T-rich environment; the preferred motif is a tandem repeat of 5'-. ATTGGTTA-3' combined with a 5'-TTATTA-3' box. Binds to nucleosomes (By similarity). Binds to chromatin and interacts selectively with histone H3 that is not methylated at 'Lys-4', not phosphorylated at 'Thr-3' and not methylated at 'Arg-2'. Functions as a sensor of histone H3 modifications that are important for the epigenetic regulation of gene expression. Mainly expressed by medullary thymic epithelial cells (mTECs), induces the expression of thousands of tissue-restricted proteins, which are presented on major histocompatibility complex class I (MHC-I) and MHC-II molecules to developing T-cells percolating through the thymic medulla (By similarity). Also induces self-tolerance through other mechanisms such as the regulation of the mTEC differentiation program (PubMed:19015306). Controls the medullary accumulation of thymic dendritic cells and the development of regulatory T-cell through the regulation of XCL1 expression (PubMed:21300913). Regulates the production of CCR4 and CCR7 ligands in medullary thymic epithelial cells and alters the coordinated maturation and migration of thymocytes (PubMed:19923453). In thimic B-cells, allows the presentation of licensing-dependent endogenous self-anitgen for negative selection (PubMed:26070482). In secondary lymphoid organs, induces functional inactivation of CD4(+) T-cells. Expressed by a distinct bone marrow-derived population, induces self-tolerance through a mechanism that does not require regulatory T-cells and is resitant to innate inflammatory stimuli (PubMed:23993652). [UniProtKB/Swiss-Prot Function]

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