

OriGene Technologies, Inc.

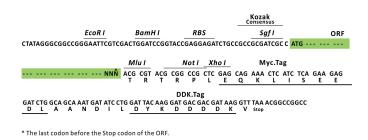
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Product datasheet for RC209921L1

HLADQA1 (HLA-DQA1) (NM_002122) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLADQA1 (HLA-DQA1) (NM_002122) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	HLADQA1
Synonyms:	CELIAC1; DQ-A1; DQA1; HLA-DQA
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209921).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG // NNÑ ACG CGT



ACCN: ORF Size: NM_002122 762 bp



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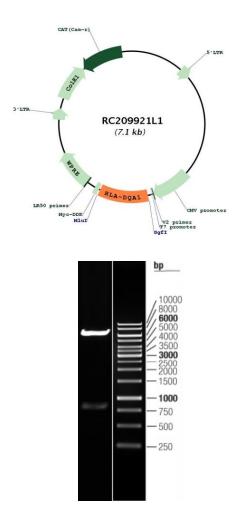
Sevential Content of the sevent sevent of the sevent sevent sevent of the sevent sevent sevent of the sevent seven	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 002122.3</u>
RefSeq Size:	1542 bp
RefSeq ORF:	768 bp
Locus ID:	3117
UniProt ID:	<u>P01909</u>
Cytogenetics:	6p21.32
Domains:	MHC_II_alpha, ig, IGc1
Protein Families:	Transmembrane
Protein Pathways:	Allograft rejection, Antigen processing and presentation, Asthma, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, Type I diabetes mellitus, Viral myocarditis
MW:	27.8 kDa

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CRIGENE HLADQA1 (HLA-DQA1) (NM_002122) Human Tagged Lenti ORF Clone – RC209921L1

Gene Summary:HLA-DQA1 belongs to the HLA class II alpha chain paralogues. The class II molecule is a
heterodimer consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the
membrane. It plays a central role in the immune system by presenting peptides derived from
extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B
Lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa. It is
encoded by 5 exons; exon 1 encodes the leader peptide, exons 2 and 3 encode the two
extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic
tail. Within the DQ molecule both the alpha chain and the beta chain contain the
polymorphisms specifying the peptide binding specificities, resulting in up to four different
molecules. Typing for these polymorphisms is routinely done for bone marrow
transplantation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC209921L1

Double digestion of RC209921L1 using Sgfl and Mlul

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