

Product datasheet for RC222843L2V

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

HLA DP (HLA-DPA1) (NM 033554) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: HLA DP (HLA-DPA1) (NM_033554) Human Tagged ORF Clone Lentiviral Particle

Symbol: HLA DF

Synonyms: DP(W3); DP(W4); DPA1; HLA-DP1A; HLA-DPA; HLA-DPB1; HLADP; HLASB; PLT1

Mammalian Cell

Selection:

None

Vector: pLenti-C-mGFP (PS100071)

Tag: mGFP

ACCN: NM_033554

ORF Size: 780 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC222843).

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: <u>NM 033554.2</u>

 RefSeq Size:
 1157 bp

 RefSeq ORF:
 783 bp

 Locus ID:
 3113

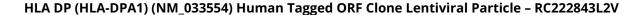
 UniProt ID:
 P20036

 Cytogenetics:
 6p21.32

Domains: MHC_II_alpha, ig, IGc1

Protein Families: Transmembrane





ORIGENE

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: 26.1 kDa

Gene Summary: HLA-DPA1 belongs to the HLA class II alpha chain paralogues. This class II molecule is a

heterodimer consisting of an alpha (DPA) and a beta (DPB) chain, 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 and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic

tail. Within the DP molecule both the alpha chain and the beta chain contain the

polymorphisms specifying the peptide binding specificities, resulting in up to 4 different

molecules. [provided by RefSeq, Jul 2008]