

## Product datasheet for **RG204966**

### HLA-DPB1 (NM\_002121) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HLA-DPB1 (NM_002121) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HLA-DPB1
Synonyms:	DPB1; HLA-DP; HLA-DP1B; HLA-DPB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204966 representing NM_002121 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGTTCTGCAGGTTTCTGCGGCCCCCGGACAGTGGCTCTGACGGGTTACTGATGGTGCTGCTCACATCTGTGGTCCAGGGCAGGGCCACTCCAGAGAATTACGTGCACCAGTTACGGCAGGAATGCTACGCGTTTAA TGGGACACAGCGCTTCTGGAGAGATACATCTACAACCGGGAGGAGTTCGTGCGCTTCGACAGCGACGTG GGGGAGTTCGGGCGGTGACGGAGCTGGGGCGGCCTGATGAGGACTACTGGAACAGCCAGAAGGACATCC TGGAGGAGGAGCGGGCAGTGCCGGACAGGATGTGCAGACACAACACTACGAGCTGGACGAGGCCGTGACCCCT GCAGCGCCGAGTCCAGCCTAGGGTGAATGTTTCCCCCTCCAAGAAGGGGCCCTTGCAGCACCACAACCTG CTTGTCTGCCACGTGACGGATTTCTACCCAGGCAGCATTCAAGTCCGATGGTTCCGTAATGGACAGGAGG AACAGCTGGGGTCGTGTCCACCAACCTGATCCGTAATGGAGACTGGACCTTCCAGATCCTGGTATGCT GGAAATGACCCCCAGCAGGGAGATGTCTACACCTGCCAAGTGGAGCACACCAGCCTGGATAGTCTGTGC ACCGTGGAGTGAAGGCACAGTCTGATTCTGCCGGAGTAAGACATTGACGGGAGCTGGGGGCTTCGTGC TGGGGCTCATCATCTGTGGAGTGGGCATCTTCATGCACAGGAGGCAAGAAAGTTCAACGAGGATCTGC A

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

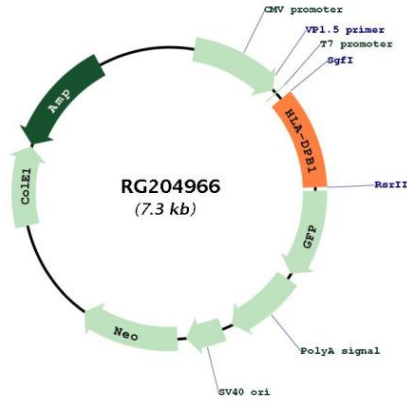


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<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002121.4</a> , <a href="#">NP_002112.3</a>
<b>RefSeq Size:</b>	1501 bp
<b>RefSeq ORF:</b>	777 bp
<b>Locus ID:</b>	3115
<b>UniProt ID:</b>	<a href="#">P04440</a>
<b>Cytogenetics:</b>	6p21.32
<b>Domains:</b>	MHC_II_beta, ig, IGc1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	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
<b>Gene Summary:</b>	HLA-DPB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta chain (DPB), 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 beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes 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]

Product images:



Circular map for RG204966