

Product datasheet for **RG231073**

HLA-DQB2 (NM_001198858) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLA-DQB2 (NM_001198858) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HLA-DQB2
Synonyms:	DQB2; HLA-DQB1; HLA-DXB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231073 representing NM_001198858 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTGCAGATCCCTGGAGGCTTTTGGGCAGCAGCTGTGACCGTGATGCTGGTGATGCTGAGCACCC
CAGTGGCTGAGGCCAGAGACTTTCCCAAGGATTTCTTGGTCCAGTTTAAGGGCATGTGCTACTTCACCAA
CGGGACAGAGCGGTGCGCGGTGTGGCCAGATACATCTATAACCGCGAGGAGTACGGGCGCTTCGACAGC
GACGTTGGGGAGTCCAGGCGGTGACCGAGCTGGGGCGGAGCATCGAGGACTGGAACAATAAAGGACT
TCTTGGAGCAGGAGCGGGCCGCGGTGGACAAGGTGTGACAGACACAACACGAGGGCGGAGCTGCGCAGCAG
CTTGCAGCGGCAAGTGGAGCCCACAGTGACCATCTCCCATCCAGGACAGAGGCCCTCAACCACCACAAC
CTGCTGGTCTGCTCGGTGACAGATTTCTATCCAGCCCAGATCAAAGTCCGGTGGTTTCGGAATGACCAGG
AGGAGACAGCCGGTGTGTGTCCACCTCCCTCATTAGGAATGGTGACTGGACCTTCAGATTCTGGTGAT
GCTGAAAATAACTCCCCAGCGTGGAGACATCTACACCTGCCAAGTGGAGCACCCAGCCTCCAGAGCCCC
ATCACCGTGGAGTGGCGACCTCGAGGGCCTCCACCAGCAGGACTCCTGCAC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231073 representing NM_001198858
Red=Cloning site Green=Tags(s)

MALQIPGGFWAAAVTVMLVMLSTPVAEARDFPKDFLVQFKGMCYFTNGTERVIRGVARYIYNREEYGRFDS
 DVGFEFQAVTELGRSIEDWNNYKDFLEQERAAVDKVCRHNYEALRRTLQRQVEPTVTISPSRTEALNHHN
 LLVCSVTDFYPAQIKVRFNRNDQEETAGVVSTSLIRNGDWFQILVMLEITPQRGDIYTCQVEHPSLQSP
 ITVEWRPRGPPAGLLH

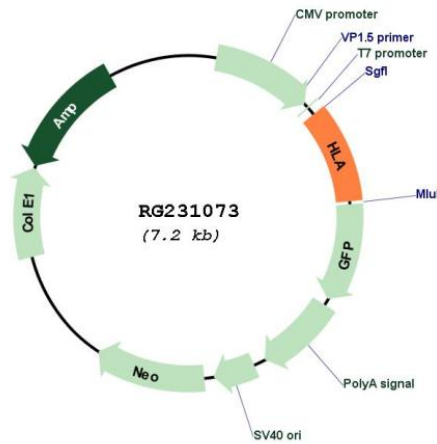
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001198858

ORF Size: 681 bp

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.
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:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001198858.2
RefSeq Size:	1122 bp
RefSeq ORF:	684 bp
Locus ID:	3120
UniProt ID:	P05538
Cytogenetics:	6p21.32
Gene Summary:	HLA-DQB2 belongs to the family of HLA class II beta chain paralogs. Class II molecules are heterodimers consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. They play 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). Polymorphisms in the alpha and beta chains specify the peptide binding specificity, and typing for these polymorphisms is routinely done for bone marrow transplantation. However this gene, HLA-DQB2, is not routinely typed, as it is not thought to have an effect on transplantation. There is conflicting evidence in the literature and public sequence databases for the protein-coding capacity of HLA-DQB2. Because there is evidence of transcription and an intact ORF, HLA-DQB2 is represented in Entrez Gene and in RefSeq as a protein-coding locus. [provided by RefSeq, Oct 2010]