

Product datasheet for **RG204511**

HLA (NM_182549) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | HLA (NM_182549) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | HLA |
| Synonyms: | HLA-DQB1; HLA-DXB |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG204511 representing NM_182549 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCTTTGAAGATGGCTCTGCAGATCCCTGGAGGCTTTTGGGCAGCAGCTGTGACCGTGATGCTGGTGA
 TGCTGAGCACCCAGTGGCTGAGGCCAGAGACTTTCCCAAGGATTTCTTGGTCCAGTTTAAGGGCATGTG
 CTACTTCACCAACGGGACAGAGCGGTGCGGGGTGTGGCCAGATACATCTATAACCGCGAGGAGTACGGG
 CGCTTCGACAGCGACGTTGGGGAGTTCCAGGCGGTGACCGAGCTGGGGCGGAGCATCGAGGACTGGAACA
 ACTATAAGGACTTCTTGGAGCAGGAGCGGGCCGCGGTGGACAAGGTGTGCAGACACAACACGAGGCGGA
 GCTACGCACGACCTTGCAGCGGCAAGTGGAGCCCACAGTGACCATCTCCCATCCAGGACAGAGGCCCTC
 AACCACCAACAACCTGCTGGTCTGCTCAGTGACAGATTTCTATCCAGCCCAGATCAAAGTCCAGTGTTTTC
 GGAATGACCAGGAGGAGACAGCCGGTGTGTGTCCACCTCCCTCATTAGGAATGGTGACTGGACCTTCCA
 GATTCTGGTGATGCTGGAATAACTCCCCAGCGTGGAGACATCTACACCTGCCAAGTGGAGCACCCAGC
 CTCCAGAGCCCCATCACCGTGGAGTGGCGACCTCGAGGGCCTCCACCTGCAGGACTCTCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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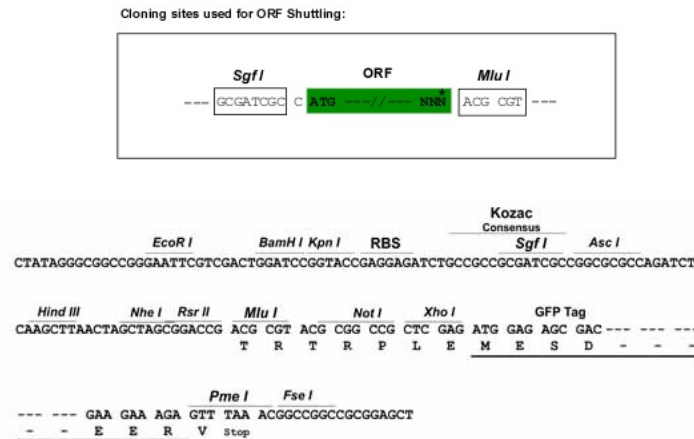
Protein Sequence: >RG204511 representing NM_182549
Red=Cloning site Green=Tags(s)

MSWKMALQIPGGFWAAAVTVMLVMLSTPVAEARDFPKDFLVQFKGMCYFTNGTERVGVARYIYNREEYG
RFDSDVGEFQAVTELGRSIEDWNNYKDFLEQERAAVDKVCRRHNYEALRTTLQRQVEPTVTISPSRTEAL
NHHNLLVCSVTDFYPAQIKVQWFRNDQEETAGVVSTSLIRNGDWTQILVMLEITPQRGDIYTCQVEHPS
LQSPITVEWRPRGPPPAAGLLH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182549

ORF Size: 693 bp

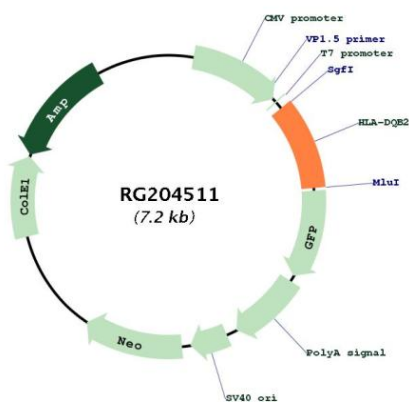
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM_182549.1, NP_872355.1</u> |
| RefSeq Size: | 1092 bp |
| RefSeq ORF: | 695 bp |
| Locus ID: | 3120 |
| Cytogenetics: | 6p21.32 |
| Gene Summary: | <p>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]</p> |

Product images:



Circular map for RG204511