

## Product datasheet for **SC205037**

### HLA-DQB1 (NM\_002123) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** HLA-DQB1 (NM\_002123) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** HLA-DQB1  
**Synonyms:** CELIAC1; HLA-DQB; IDDM1  
**ACCN:** NM\_002123  
**Insert Size:** 799 bp  
**Insert Sequence:** >SC205037 3'UTR clone of NM\_002123  
The sequence shown below is from the reference sequence of NM\_002123. The complete sequence of this clone may contain minor differences, such as SNPs.  
**Blue**=Stop Codon **Red**=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG  
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC  
CAAAGGAGTCAGAAAGGGCTTCTGCACTGACTCCTCTGAGACTATTTAACTAGGATTGGTTATCACTCTT  
CTGTGATGCCTGCTTATGCCTGCCAGAAATCCAGCTGCCTGTGTGAGCTTGTCCCTGAGATCAAA  
GTCTACAGTGGCTGTACGCAGCCACCAAGGTCATCTCCTTTCATCCCCACCCAAAGCGCTGGCTGTG  
ACTCTGCTTCTGCACTGACCCAGAGCCTCTGCCTGTGCATGGCCAGCTGCGTCTACTCAGTCCCAAG  
GGGTTTCTGTTTCTATTCTTTCCTCAGACTGCTCAAGAGAAGCACATGAAAAACATTACCTGACTTTAG  
AGCTTTTTTACATAAATTAACATGATCCTGAGTTATCTGTATTCTGAACTTTCTAATTGAGAAGAGGC  
AGGAAATCACTGCAGAATGAAGGAACATCCCTTGAGGTGACCCAGCAAACCTGTGGCCAGAAGGAGGAT  
TGTACCTGAAAAGACTGAAAGCATTGTTGGGTGTGAAGTAAGGGTGGCAGAGGAGGTAGAAAATA  
ATTCAATTGTCGCATCATTGTTCTTTAATACTGATGCTCAGTGCATTGGCCTTAGAATATCCCAG  
CCTCTCTTCTGGTTTGGTGAAGTGTGTAATAAGCATGGTAGAATTGTTGGAGACATATATAGTGA  
TCCTTGGTCACTGGTGTTCAAACATTCTGAAAGTCACATCGATCAAGAATATTTTTATTTTTAAGA  
AAGCATAACCAGCAATAAAAATACTATTTTTGAGTCTAAA  
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCCAGCAAGCGACGCCAACCTGCCATCA  
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

**Restriction Sites:** Sgfl-Mlul

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).



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<b>Components:</b>	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
<b>RefSeq:</b>	<a href="#">NM_002123.5</a>
<b>Summary:</b>	HLA-DQB1 belongs to the HLA class II beta chain paralogs. This 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 beta chain is approximately 26-28 kDa and it contains six exons. Exon 1 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 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]
<b>Locus ID:</b>	3119
<b>MW:</b>	30.6