

# Package ‘beta7’

May 9, 2024

**Version** 1.43.0

**Date** 2005-10-19

**Title** Rodriguez et al. (2004) Differential Gene Expression by  
Memory/Effector T Helper Cells Bearing the Gut-Homing Receptor  
Integrin alpha4 beta7.

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## Description

Data from 6 gpr files aims to identify differential expressed genes between the beta 7+ and beta 7-  
memory T helper cells.

**License** LGPL

**Depends** R (>= 2.4.0), marray

**biocViews** ExperimentData, Homo\_sapiens\_Data, CGHData, MicroarrayData

**git\_url** <https://git.bioconductor.org/packages/beta7>

**git\_branch** devel

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**Repository** Bioconductor 3.20

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beta7

*Data from Rodriguez et al. (2004) Differential Gene Expression by Memory/Effector T Helper Cells Bearing the Gut-Homing Receptor Integrin alpha4 beta7.*

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### Description

This data package contains an marrayRaw instance for the as well as 6 gpr files of the beta7 microarray experiment.

### Usage

```
data(beta7)
```

### Details

Each arrays(hybridization) involved  $\beta 7+$  cell RNA from a single subject (labeled with one dye) and  $\beta 7-$  cell RNA from the same subject (labeled with the other dye). Target RNA was hybridized to microarrays containing 23,184 probes including Operon Human version 2 set of 70-mer oligonucleotide probes and 1760 controls spots (e.g. negative, positive and normalization controls spots).

### References

M.W. Rodriguez, A. C. Paquet, Y.H. Yang and D. J. Erle, Differential gene expression by integrin beta7+and beta7-memory T helper cells, *BMC Immunology* 2004, pp. 5–13.

### Examples

```
data(beta7)
summary(beta7)
dim(beta7@maGf)
```

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\* **datasets**

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