

# Package ‘beta7’

July 1, 2025

**Version** 1.47.0

**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.

**Author** Jean Yang <jean@biostat.ucsf.edu>

**Maintainer** Jean Yang <jean@biostat.ucsf.edu>

## 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

**git\_last\_commit** a8b5b12

**git\_last\_commit\_date** 2025-04-15

**Repository** Bioconductor 3.22

**Date/Publication** 2025-07-01

## Contents

beta7 . . . . . 1

**Index** 3

---

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

---

## Description

This data package contains an marrayRaw instance for the as well as 6 gpr files of the beta7 mi-  
croarray 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)
```

# Index

\* **datasets**  
    beta7, [1](#)

beta7, [1](#)