

MAQCsubsetILM: MAQC reference subset for the Illumina platform

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1 The MAQC reference datasets

The MAQC (MicroArray Quality Control) project¹ provides a set of reference datasets for a set of 10 platforms (see *Summary of the MAQC Data Sets*² for more details). This package provides a subset of the Illumina MAQC dataset³.

Regarding the Illumina platform (ILM prefix), a total of 59 Human-6 BeadChip 48K v1.0 have been generated. Four different reference RNAs have been used: (A) 100% of Stratagene's *Universal Human Reference RNA*, (B) 100% of Ambion's Human Brain Reference RNA, (C) 75% of A and 25% of B and (D) 25% of A and 75% of B. Each reference has been repeated 5⁴ times (noted `_A1_` to `_A5_`)⁵ on three different test sites (noted `_1_` to `_3_`). As an example, the .CEL result file for the first replicate of test site 2, for the reference ARN C is named `ILM_2_C1.CEL`.

¹<http://www.fda.gov/nctr/science/centers/toxicoinformatics/maq>

²http://edkb.fda.gov/MAQC/MainStudy/upload/Summary_MQC_DataSets.pdf

³Packages for the datasets of other platforms will follow and will all be named MAQCsubsetXXX where XXX is the three-letter code used by the MAQC consortium.

⁴except for site 1, reference C, where 4 replicates are available

⁵the replicates for site 2, reference D are labelled `_D1_`, `_D2_`, `_D4_`, `_D6_` and `_D7_`


```
protocolData: none
phenoData
  sampleNames: ILM_1_A5 ILM_2_A1 ILM_3_A2
  varLabels: sampleID site ref replicate
  varMetadata: labelDescription
featureData
  featureNames: GI_10047089-S GI_10047091-S ... trpF (47293 total)
  fvarLabels: TargetID
  fvarMetadata: labelDescription
experimentData: use 'experimentData(object)'
Annotation:
Control Data: N/A
QC information: Please run summary(x, 'QC') for details!
```