Package 'HSSVD'

February 19, 2015

Type Package

Title Biclustering with Heterogeneous Variance

Version 1.2

Date 2014-12-03

Description A data mining tool for discovering subgroups of patients and genes that simultaneously display unusual levels of variability compared to other genes and patients. Based on sparse singular value decomposition (SSVD), the method can detect both mean and variance biclusters in the presence of heterogeneous residual variance.

Depends R (>= 2.10), bcv

License GPL-2

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HSSVD-package *Biclustering with heterogeneous variance*

Description

HSSVD is a recently developed data mining tool for discovering subgroups of patients and genes which simultaneously display unusual levels of variability compared to other genes and patients. Previous biclustering methods were restricted to mean level detection, while the new method can detect both mean and variance biclusters.

Details

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Type:	Package
Version:	1.1
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low_rank is the full implementation of the HSSVD framework.

Author(s)

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References

Chen G, Sullivan PF, Kosorok MR. "Biclustering with heterogeneous variance." Proc. Natl. Acad. Sci. U.S.A.. 2013;110(30):12253-8.

Owen AB, Perry PO (2009) Bi-cross-validation of the SVD and the nonnegative matrix factorization. The Annals of Applied Statistics 3:564-594.

Yang D, Zongming M, Buja, A. "A Sparse SVD Method for High-dimensional Data." arXiv:11112.24333 (2011).

low_rank *Implementation of HSSVD framework for biclusering with heterogeneous variance.*

Description

HSSVD is a recently developed data mining tool for discovering subgroups of patients and genes which simultaneously display unusual levels of variability compared to other genes and patients. Previous biclustering methods were restricted to mean level detection, while the new method can detect both mean and variance biclusters.

Usage

```
low_rank(x, ranks = c(rep(NA,3)), sparse = rep(FALSE, 3),
est = rep("wold", 3), add=c(1,0,0),...)
```

Arguments

x	Data matrix to bicluster, if data range is [0; 1] then logit transform is recommended. If [0;inf] then log transform is recommended, otherwise no transform or standardization is needed.
ranks	Integer vector (dim=3) of rank input for: rescale, mean approximation and variance approximation steps. Default is c(NA,NA,NA), which means that Wold or Gabriel-style cross validation will be used for rank estimation.
sparse	Vector of logical indicators (dim=3). TRUE=sparse input of left and right singular vector is needed. Default is c(FALSE,FALSE,FALSE), see Details for insight.
est	Character vector (dim=3) giving estimation methods for each step. Only "GB" or "Wold" method are available. Default is "Wold"
add	Integer vector (dim=3), where 0 <= add <= 2, which is added to the rank estimate at each step for dense matrices.
...	Additional input variables for FIT.SSVD. See Details section for more information.

Details

FIT-SSVD method (3) assumes that over half of the rows are approximate null rows with little or no signal and similar for the columns, their preselecting row and column steps for initial values and rank estimation will under-select informative rows/columns if all rows/columns are informative or the dimension of rows/columns are not large enough, both of which can happen in biological research. So in practice, the initial value would be the vanilla singular value decomposition's result. For the rank approximation, the Gabriel-style "block" holdout tend to give a larger rank estimation than the Wold-style "speckled" holdout. For our experience Wold method may be better for the large data set. The rank estimation steps are slow, especially when using Wold-style method, so we suggest to run in batch mode or run on clustering if rank estimation is needed.

The FIT.SSVD has several input variables that can be adjusted by the user if desired. However, these are currently limited to
dothres : 'hard' or 'soft' thresholding; default='hard'
n.step : maximum number of iterations in Algorithm 1; default=100
n.err : number of Bootstrap samples in Algorithm 3; default=100

Value

call	record of call to low_rank
rescale	Sparse SVD approximation result of rescale, typically this type object contain singular value (d), left (u) and right (v) singular vectors. (Step 2)
result_mean	Sparse SVD approximation result of Y . (Step 3)

result_var	Sparse SVD approximation result of Z. (Step 4)
ranks	vector of estimated ranks for (U, Y_tilde, Z_tilde).
bgmean	Mean for null cluster. (Step 5)
bgstd	Standard deviation for null cluster. (Step 5)
back	Logical matrix where TRUE=in null cluster.
mean_app	Mean approximation of X. (Step 6)
std_app	Standard deviation approximation of X. (Step 6)

Author(s)

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References

Chen G, Sullivan PF, Kosorok MR (2013) Biclustering with heterogeneous variance. Proceedings of the National Academy of Sciences, doi:10.1073/pnas.1304376110.

Owen AB, Perry PO (2009) Bi-cross-validation of the SVD and the nonnegative matrix factorization. The Annals of Applied Statistics 3:564-594.

Yang, D., Ma, Z., and Buja, A. (2011) A sparse SVD method for high-dimensional data arXiv:1112.2433.

Examples

```
data(Methylation)
beta_name <- colnames(Methylation)[grep("AVG_Beta",colnames(Methylation))]
ds <- as.matrix(Methylation[beta_name],ncol=length(beta_name))
info <- t(ds)
## The methylation data takes value between [0,1];
## therefore, we do a logit tranformation ##
info <- log(info/(1-info))

result <- low_rank(info,ranks=c(8,4,4))
```

Methylation *Methylation Data in cancer versus normal patients*

Description

Description

Usage

```
data(Methylation)
```

Format

A data frame with 384 observations on the following 1465 variables.

`TargetID` a factor with levels

`CHROMOSOME` a factor with levels

`SYMBOL` a factor with levels

`CPG_ISLAND` a logical vector

`PRODUCT` a logical vector

`ANNOTATION` a logical vector

`SYNONYM` a logical vector

`INPUT_SEQUENCE` a factor with levels

`REFSEQ` a numeric vector

`CG_NO` a factor with levels

`DIST_TO_TSS` a logical vector

`CPG_COORDINATE` a numeric vector

`GID` a logical vector

`ProbeID` a numeric vector

`GENE_ID` a logical vector

`Breast_N1.1034270290.AVG_Beta` a numeric vector

`Breast_N1.1034270290.Signal.CY3` a numeric vector

`Breast_N1.1034270290.Signal.CY5` a numeric vector

`Breast_N1.1034270290.Avg_NBEADS` a numeric vector

`Breast_N1.1034270290.BEAD_STDERR` a numeric vector

`Breast_N10.1034269692.AVG_Beta` a numeric vector

`Breast_N10.1034269692.Signal.CY3` a numeric vector

`Breast_N10.1034269692.Signal.CY5` a numeric vector

`Breast_N10.1034269692.Avg_NBEADS` a numeric vector

`Breast_N10.1034269692.BEAD_STDERR` a numeric vector

`Breast_N11.1034271163.AVG_Beta` a numeric vector

`Breast_N11.1034271163.Signal.CY3` a numeric vector

`Breast_N11.1034271163.Signal.CY5` a numeric vector

`Breast_N11.1034271163.Avg_NBEADS` a numeric vector

`Breast_N11.1034271163.BEAD_STDERR` a numeric vector

`Breast_N12.1034271179.AVG_Beta` a numeric vector

`Breast_N12.1034271179.Signal.CY3` a numeric vector

`Breast_N12.1034271179.Signal.CY5` a numeric vector

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`Breast_N12.1034271179.BEAD_STDERR` a numeric vector

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Breast_N13.1034271188.Signal.CY5 a numeric vector
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Breast_N13.1034271188.BEAD_STDERR a numeric vector
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Breast_N14.1034271202.Signal.CY5 a numeric vector
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Breast_N14.1034271202.BEAD_STDERR a numeric vector
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Breast_N15.1034271214.Signal.CY5 a numeric vector
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Breast_N16.1034271223.Signal.CY5 a numeric vector
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Breast_N18.1034247347.Signal.CY5 a numeric vector
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Breast_N19.1034247365.Signal.CY5 a numeric vector
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Breast_N2.1034270303.Signal.CY5 a numeric vector

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Breast_N2.1034270303.BEAD_STDERR a numeric vector

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Breast_N22.1034247380.Signal.CY5 a numeric vector

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Breast_N24.1034247409.Signal.CY5 a numeric vector

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Breast_N25.1034247419.Signal.CY5 a numeric vector

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Breast_N26.1034247426.Signal.CY5 a numeric vector

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Breast_N4.1034270329.Signal.CY5 a numeric vector
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Breast_N4.1034270329.BEAD_STDERR a numeric vector
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Breast_T5.1034270333.Signal.CY5 a numeric vector
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Breast_T6.1034269657.Signal.CY5 a numeric vector

Breast_T6.1034269657.Avg_NBEADS a numeric vector

Breast_T6.1034269657.BEAD_STDERR a numeric vector

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Colon_N1.1034270292.Signal.CY3 a numeric vector

Colon_N1.1034270292.Signal.CY5 a numeric vector

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Colon_N1.1034270292.BEAD_STDERR a numeric vector

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Colon_N10.1034269701.Signal.CY3 a numeric vector

Colon_N10.1034269701.Signal.CY5 a numeric vector

Colon_N10.1034269701.Avg_NBEADS a numeric vector

Colon_N10.1034269701.BEAD_STDERR a numeric vector

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Colon_N11.1034271160.Signal.CY3 a numeric vector

Colon_N11.1034271160.Signal.CY5 a numeric vector

Colon_N11.1034271160.Avg_NBEADS a numeric vector

Colon_N11.1034271160.BEAD_STDERR a numeric vector

Colon_N12.1034271181.AVG_Beta a numeric vector

Colon_N12.1034271181.Signal.CY3 a numeric vector

Colon_N12.1034271181.Signal.CY5 a numeric vector

Colon_N12.1034271181.Avg_NBEADS a numeric vector

Colon_N12.1034271181.BEAD_STDERR a numeric vector

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Colon_N14.1034271204.Signal.CY3 a numeric vector

Colon_N14.1034271204.Signal.CY5 a numeric vector

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Colon_N14.1034271204.BEAD_STDERR a numeric vector

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Colon_N15.1034271212.Signal.CY5 a numeric vector

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Colon_N15.1034271212.BEAD_STDERR a numeric vector

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Colon_N16.1034271225.Signal.CY3 a numeric vector

Colon_N16.1034271225.Signal.CY5 a numeric vector

Colon_N16.1034271225.Avg_NBEADS a numeric vector

Colon_N16.1034271225.BEAD_STDERR a numeric vector

Colon_N17.1034271239.AVG_Beta a numeric vector

Colon_N17.1034271239.Signal.CY3 a numeric vector

Colon_N17.1034271239.Signal.CY5 a numeric vector

Colon_N17.1034271239.Avg_NBEADS a numeric vector

Colon_N17.1034271239.BEAD_STDERR a numeric vector

Colon_N18.1034247349.AVG_Beta a numeric vector

Colon_N18.1034247349.Signal.CY3 a numeric vector

Colon_N18.1034247349.Signal.CY5 a numeric vector

Colon_N18.1034247349.Avg_NBEADS a numeric vector

Colon_N18.1034247349.BEAD_STDERR a numeric vector

Colon_N19.1034247363.AVG_Beta a numeric vector

Colon_N19.1034247363.Signal.CY3 a numeric vector

Colon_N19.1034247363.Signal.CY5 a numeric vector

Colon_N19.1034247363.Avg_NBEADS a numeric vector

Colon_N19.1034247363.BEAD_STDERR a numeric vector

Colon_N2.1034270301.AVG_Beta a numeric vector

Colon_N2.1034270301.Signal.CY3 a numeric vector

Colon_N2.1034270301.Signal.CY5 a numeric vector

Colon_N2.1034270301.Avg_NBEADS a numeric vector

Colon_N2.1034270301.BEAD_STDERR a numeric vector

Colon_N20.1034247371.AVG_Beta a numeric vector

Colon_N20.1034247371.Signal.CY3 a numeric vector

Colon_N20.1034247371.Signal.CY5 a numeric vector

Colon_N20.1034247371.Avg_NBEADS a numeric vector

Colon_N20.1034247371.BEAD_STDERR a numeric vector

Colon_N21.1034247389.AVG_Beta a numeric vector

Colon_N21.1034247389.Signal.CY3 a numeric vector

Colon_N21.1034247389.Signal.CY5 a numeric vector

Colon_N21.1034247389.Avg_NBEADS a numeric vector

Colon_N21.1034247389.BEAD_STDERR a numeric vector

Colon_N22.1034247393.AVG_Beta a numeric vector

Colon_N22.1034247393.Signal.CY3 a numeric vector

Colon_N22.1034247393.Signal.CY5 a numeric vector

Colon_N22.1034247393.Avg_NBEADS a numeric vector

Colon_N22.1034247393.BEAD_STDERR a numeric vector

Colon_N23.1034247415.AVG_Beta a numeric vector

Colon_N23.1034247415.Signal.CY3 a numeric vector
Colon_N23.1034247415.Signal.CY5 a numeric vector
Colon_N23.1034247415.Avg_NBEADS a numeric vector
Colon_N23.1034247415.BEAD_STDERR a numeric vector
Colon_N24.1034247407.AVG_Beta a numeric vector
Colon_N24.1034247407.Signal.CY3 a numeric vector
Colon_N24.1034247407.Signal.CY5 a numeric vector
Colon_N24.1034247407.Avg_NBEADS a numeric vector
Colon_N24.1034247407.BEAD_STDERR a numeric vector
Colon_N25.1034247421.AVG_Beta a numeric vector
Colon_N25.1034247421.Signal.CY3 a numeric vector
Colon_N25.1034247421.Signal.CY5 a numeric vector
Colon_N25.1034247421.Avg_NBEADS a numeric vector
Colon_N25.1034247421.BEAD_STDERR a numeric vector
Colon_N26.1034247438.AVG_Beta a numeric vector
Colon_N26.1034247438.Signal.CY3 a numeric vector
Colon_N26.1034247438.Signal.CY5 a numeric vector
Colon_N26.1034247438.Avg_NBEADS a numeric vector
Colon_N26.1034247438.BEAD_STDERR a numeric vector
Colon_N27.1034247434.AVG_Beta a numeric vector
Colon_N27.1034247434.Signal.CY3 a numeric vector
Colon_N27.1034247434.Signal.CY5 a numeric vector
Colon_N27.1034247434.Avg_NBEADS a numeric vector
Colon_N27.1034247434.BEAD_STDERR a numeric vector
Colon_N3.1034270314.AVG_Beta a numeric vector
Colon_N3.1034270314.Signal.CY3 a numeric vector
Colon_N3.1034270314.Signal.CY5 a numeric vector
Colon_N3.1034270314.Avg_NBEADS a numeric vector
Colon_N3.1034270314.BEAD_STDERR a numeric vector
Colon_N4.1034270326.AVG_Beta a numeric vector
Colon_N4.1034270326.Signal.CY3 a numeric vector
Colon_N4.1034270326.Signal.CY5 a numeric vector
Colon_N4.1034270326.Avg_NBEADS a numeric vector
Colon_N4.1034270326.BEAD_STDERR a numeric vector
Colon_N5.1034270336.AVG_Beta a numeric vector
Colon_N5.1034270336.Signal.CY3 a numeric vector
Colon_N5.1034270336.Signal.CY5 a numeric vector

Colon_N5.1034270336.Avg_NBEADS a numeric vector

Colon_N5.1034270336.BEAD_STDERR a numeric vector

Colon_N6.1034270353.AVG_Beta a numeric vector

Colon_N6.1034270353.Signal.CY3 a numeric vector

Colon_N6.1034270353.Signal.CY5 a numeric vector

Colon_N6.1034270353.Avg_NBEADS a numeric vector

Colon_N6.1034270353.BEAD_STDERR a numeric vector

Colon_N7.1034270356.AVG_Beta a numeric vector

Colon_N7.1034270356.Signal.CY3 a numeric vector

Colon_N7.1034270356.Signal.CY5 a numeric vector

Colon_N7.1034270356.Avg_NBEADS a numeric vector

Colon_N7.1034270356.BEAD_STDERR a numeric vector

Colon_N8.1034270378.AVG_Beta a numeric vector

Colon_N8.1034270378.Signal.CY3 a numeric vector

Colon_N8.1034270378.Signal.CY5 a numeric vector

Colon_N8.1034270378.Avg_NBEADS a numeric vector

Colon_N8.1034270378.BEAD_STDERR a numeric vector

Colon_N9.1034269699.AVG_Beta a numeric vector

Colon_N9.1034269699.Signal.CY3 a numeric vector

Colon_N9.1034269699.Signal.CY5 a numeric vector

Colon_N9.1034269699.Avg_NBEADS a numeric vector

Colon_N9.1034269699.BEAD_STDERR a numeric vector

Colon_T1.1034270291.AVG_Beta a numeric vector

Colon_T1.1034270291.Signal.CY3 a numeric vector

Colon_T1.1034270291.Signal.CY5 a numeric vector

Colon_T1.1034270291.Avg_NBEADS a numeric vector

Colon_T1.1034270291.BEAD_STDERR a numeric vector

Colon_T10.1034269693.AVG_Beta a numeric vector

Colon_T10.1034269693.Signal.CY3 a numeric vector

Colon_T10.1034269693.Signal.CY5 a numeric vector

Colon_T10.1034269693.Avg_NBEADS a numeric vector

Colon_T10.1034269693.BEAD_STDERR a numeric vector

Colon_T11.1034271162.AVG_Beta a numeric vector

Colon_T11.1034271162.Signal.CY3 a numeric vector

Colon_T11.1034271162.Signal.CY5 a numeric vector

Colon_T11.1034271162.Avg_NBEADS a numeric vector

Colon_T11.1034271162.BEAD_STDERR a numeric vector

Colon_T13.1034271187.AVG_Beta a numeric vector
Colon_T13.1034271187.Signal.CY3 a numeric vector
Colon_T13.1034271187.Signal.CY5 a numeric vector
Colon_T13.1034271187.Avg_NBEADS a numeric vector
Colon_T13.1034271187.BEAD_STDERR a numeric vector
Colon_T14.1034271203.AVG_Beta a numeric vector
Colon_T14.1034271203.Signal.CY3 a numeric vector
Colon_T14.1034271203.Signal.CY5 a numeric vector
Colon_T14.1034271203.Avg_NBEADS a numeric vector
Colon_T14.1034271203.BEAD_STDERR a numeric vector
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Colon_T17.1034271240.Signal.CY5 a numeric vector
Colon_T17.1034271240.Avg_NBEADS a numeric vector
Colon_T17.1034271240.BEAD_STDERR a numeric vector
Colon_T18.1034247348.AVG_Beta a numeric vector
Colon_T18.1034247348.Signal.CY3 a numeric vector
Colon_T18.1034247348.Signal.CY5 a numeric vector
Colon_T18.1034247348.Avg_NBEADS a numeric vector
Colon_T18.1034247348.BEAD_STDERR a numeric vector
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Colon_T19.1034247364.Signal.CY5 a numeric vector
Colon_T19.1034247364.Avg_NBEADS a numeric vector
Colon_T19.1034247364.BEAD_STDERR a numeric vector
Colon_T21.1034247390.AVG_Beta a numeric vector
Colon_T21.1034247390.Signal.CY3 a numeric vector
Colon_T21.1034247390.Signal.CY5 a numeric vector
Colon_T21.1034247390.Avg_NBEADS a numeric vector
Colon_T21.1034247390.BEAD_STDERR a numeric vector
Colon_T22.1034247392.AVG_Beta a numeric vector
Colon_T22.1034247392.Signal.CY3 a numeric vector
Colon_T22.1034247392.Signal.CY5 a numeric vector
Colon_T22.1034247392.Avg_NBEADS a numeric vector
Colon_T22.1034247392.BEAD_STDERR a numeric vector
Colon_T23.1034247403.AVG_Beta a numeric vector
Colon_T23.1034247403.Signal.CY3 a numeric vector

Colon_T23.1034247403.Signal.CY5 a numeric vector

Colon_T23.1034247403.Avg_NBEADS a numeric vector

Colon_T23.1034247403.BEAD_STDERR a numeric vector

Colon_T24.1034247408.AVG_Beta a numeric vector

Colon_T24.1034247408.Signal.CY3 a numeric vector

Colon_T24.1034247408.Signal.CY5 a numeric vector

Colon_T24.1034247408.Avg_NBEADS a numeric vector

Colon_T24.1034247408.BEAD_STDERR a numeric vector

Colon_T25.1034247420.AVG_Beta a numeric vector

Colon_T25.1034247420.Signal.CY3 a numeric vector

Colon_T25.1034247420.Signal.CY5 a numeric vector

Colon_T25.1034247420.Avg_NBEADS a numeric vector

Colon_T25.1034247420.BEAD_STDERR a numeric vector

Colon_T27.1034247435.AVG_Beta a numeric vector

Colon_T27.1034247435.Signal.CY3 a numeric vector

Colon_T27.1034247435.Signal.CY5 a numeric vector

Colon_T27.1034247435.Avg_NBEADS a numeric vector

Colon_T27.1034247435.BEAD_STDERR a numeric vector

Colon_T3.1034270313.AVG_Beta a numeric vector

Colon_T3.1034270313.Signal.CY3 a numeric vector

Colon_T3.1034270313.Signal.CY5 a numeric vector

Colon_T3.1034270313.Avg_NBEADS a numeric vector

Colon_T3.1034270313.BEAD_STDERR a numeric vector

Colon_T4.1034270327.AVG_Beta a numeric vector

Colon_T4.1034270327.Signal.CY3 a numeric vector

Colon_T4.1034270327.Signal.CY5 a numeric vector

Colon_T4.1034270327.Avg_NBEADS a numeric vector

Colon_T4.1034270327.BEAD_STDERR a numeric vector

Colon_T5.1034270335.AVG_Beta a numeric vector

Colon_T5.1034270335.Signal.CY3 a numeric vector

Colon_T5.1034270335.Signal.CY5 a numeric vector

Colon_T5.1034270335.Avg_NBEADS a numeric vector

Colon_T5.1034270335.BEAD_STDERR a numeric vector

Colon_T6.1034270354.AVG_Beta a numeric vector

Colon_T6.1034270354.Signal.CY3 a numeric vector

Colon_T6.1034270354.Signal.CY5 a numeric vector

Colon_T6.1034270354.Avg_NBEADS a numeric vector

Colon_T6.1034270354.BEAD_STDERR a numeric vector
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Colon_T7.1034270357.Signal.CY5 a numeric vector
Colon_T7.1034270357.Avg_NBEADS a numeric vector
Colon_T7.1034270357.BEAD_STDERR a numeric vector
Colon_T8.1034270367.AVG_Beta a numeric vector
Colon_T8.1034270367.Signal.CY3 a numeric vector
Colon_T8.1034270367.Signal.CY5 a numeric vector
Colon_T8.1034270367.Avg_NBEADS a numeric vector
Colon_T8.1034270367.BEAD_STDERR a numeric vector
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Lung_N1.1034270288.Signal.CY3 a numeric vector
Lung_N1.1034270288.Signal.CY5 a numeric vector
Lung_N1.1034270288.Avg_NBEADS a numeric vector
Lung_N1.1034270288.BEAD_STDERR a numeric vector
Lung_N10.1034271155.AVG_Beta a numeric vector
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Lung_N10.1034271155.Signal.CY5 a numeric vector
Lung_N10.1034271155.Avg_NBEADS a numeric vector
Lung_N10.1034271155.BEAD_STDERR a numeric vector
Lung_N11.1034271165.AVG_Beta a numeric vector
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Lung_N11.1034271165.Signal.CY5 a numeric vector
Lung_N11.1034271165.Avg_NBEADS a numeric vector
Lung_N11.1034271165.BEAD_STDERR a numeric vector
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Lung_N12.1034271177.Signal.CY3 a numeric vector
Lung_N12.1034271177.Signal.CY5 a numeric vector
Lung_N12.1034271177.Avg_NBEADS a numeric vector
Lung_N12.1034271177.BEAD_STDERR a numeric vector
Lung_N14.1034271200.AVG_Beta a numeric vector
Lung_N14.1034271200.Signal.CY3 a numeric vector
Lung_N14.1034271200.Signal.CY5 a numeric vector
Lung_N14.1034271200.Avg_NBEADS a numeric vector
Lung_N14.1034271200.BEAD_STDERR a numeric vector
Lung_T15.1034271217.AVG_Beta a numeric vector

Lung_T15.1034271217.Signal.CY3 a numeric vector

Lung_T15.1034271217.Signal.CY5 a numeric vector

Lung_T15.1034271217.Avg_NBEADS a numeric vector

Lung_T15.1034271217.BEAD_STDERR a numeric vector

Lung_T16.1034271220.AVG_Beta a numeric vector

Lung_T16.1034271220.Signal.CY3 a numeric vector

Lung_T16.1034271220.Signal.CY5 a numeric vector

Lung_T16.1034271220.Avg_NBEADS a numeric vector

Lung_T16.1034271220.BEAD_STDERR a numeric vector

Lung_T17.1034271243.AVG_Beta a numeric vector

Lung_T17.1034271243.Signal.CY3 a numeric vector

Lung_T17.1034271243.Signal.CY5 a numeric vector

Lung_T17.1034271243.Avg_NBEADS a numeric vector

Lung_T17.1034271243.BEAD_STDERR a numeric vector

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Lung_T18.1034247345.Signal.CY3 a numeric vector

Lung_T18.1034247345.Signal.CY5 a numeric vector

Lung_T18.1034247345.Avg_NBEADS a numeric vector

Lung_T18.1034247345.BEAD_STDERR a numeric vector

Lung_N19.1034247355.AVG_Beta a numeric vector

Lung_N19.1034247355.Signal.CY3 a numeric vector

Lung_N19.1034247355.Signal.CY5 a numeric vector

Lung_N19.1034247355.Avg_NBEADS a numeric vector

Lung_N19.1034247355.BEAD_STDERR a numeric vector

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Lung_N2.1034270305.Signal.CY3 a numeric vector

Lung_N2.1034270305.Signal.CY5 a numeric vector

Lung_N2.1034270305.Avg_NBEADS a numeric vector

Lung_N2.1034270305.BEAD_STDERR a numeric vector

Lung_N20.1034247356.AVG_Beta a numeric vector

Lung_N20.1034247356.Signal.CY3 a numeric vector

Lung_N20.1034247356.Signal.CY5 a numeric vector

Lung_N20.1034247356.Avg_NBEADS a numeric vector

Lung_N20.1034247356.BEAD_STDERR a numeric vector

Lung_N21.1034247377.AVG_Beta a numeric vector

Lung_N21.1034247377.Signal.CY3 a numeric vector

Lung_N21.1034247377.Signal.CY5 a numeric vector

Lung_N21.1034247377.Avg_NBEADS a numeric vector
Lung_N21.1034247377.BEAD_STDERR a numeric vector
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Lung_N22.1034247382.Signal.CY3 a numeric vector
Lung_N22.1034247382.Signal.CY5 a numeric vector
Lung_N22.1034247382.Avg_NBEADS a numeric vector
Lung_N22.1034247382.BEAD_STDERR a numeric vector
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Lung_N23.1034247400.Signal.CY5 a numeric vector
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Lung_N23.1034247400.BEAD_STDERR a numeric vector
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Lung_N24.1034247411.Signal.CY5 a numeric vector
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Lung_N25.1034247416.Signal.CY5 a numeric vector
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Lung_N25.1034247416.BEAD_STDERR a numeric vector
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Lung_N3.1034270308.Signal.CY5 a numeric vector
Lung_N3.1034270308.Avg_NBEADS a numeric vector
Lung_N3.1034270308.BEAD_STDERR a numeric vector
Lung_N4.1034270330.AVG_Beta a numeric vector
Lung_N4.1034270330.Signal.CY3 a numeric vector
Lung_N4.1034270330.Signal.CY5 a numeric vector
Lung_N4.1034270330.Avg_NBEADS a numeric vector
Lung_N4.1034270330.BEAD_STDERR a numeric vector
Lung_N5.1034270320.AVG_Beta a numeric vector
Lung_N5.1034270320.Signal.CY3 a numeric vector
Lung_N5.1034270320.Signal.CY5 a numeric vector
Lung_N5.1034270320.Avg_NBEADS a numeric vector
Lung_N5.1034270320.BEAD_STDERR a numeric vector

Lung_N7.1034270347.AVG_Beta a numeric vector
Lung_N7.1034270347.Signal.CY3 a numeric vector
Lung_N7.1034270347.Signal.CY5 a numeric vector
Lung_N7.1034270347.Avg_NBEADS a numeric vector
Lung_N7.1034270347.BEAD_STDERR a numeric vector
Lung_N8.1034270364.AVG_Beta a numeric vector
Lung_N8.1034270364.Signal.CY3 a numeric vector
Lung_N8.1034270364.Signal.CY5 a numeric vector
Lung_N8.1034270364.Avg_NBEADS a numeric vector
Lung_N8.1034270364.BEAD_STDERR a numeric vector
Lung_N9.1034270371.AVG_Beta a numeric vector
Lung_N9.1034270371.Signal.CY3 a numeric vector
Lung_N9.1034270371.Signal.CY5 a numeric vector
Lung_N9.1034270371.Avg_NBEADS a numeric vector
Lung_N9.1034270371.BEAD_STDERR a numeric vector
Lung_T1.1034270287.AVG_Beta a numeric vector
Lung_T1.1034270287.Signal.CY3 a numeric vector
Lung_T1.1034270287.Signal.CY5 a numeric vector
Lung_T1.1034270287.Avg_NBEADS a numeric vector
Lung_T1.1034270287.BEAD_STDERR a numeric vector
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Lung_T10.1034271154.Signal.CY3 a numeric vector
Lung_T10.1034271154.Signal.CY5 a numeric vector
Lung_T10.1034271154.Avg_NBEADS a numeric vector
Lung_T10.1034271154.BEAD_STDERR a numeric vector
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Lung_T11.1034271167.Signal.CY3 a numeric vector
Lung_T11.1034271167.Signal.CY5 a numeric vector
Lung_T11.1034271167.Avg_NBEADS a numeric vector
Lung_T11.1034271167.BEAD_STDERR a numeric vector
Lung_T12.1034271176.AVG_Beta a numeric vector
Lung_T12.1034271176.Signal.CY3 a numeric vector
Lung_T12.1034271176.Signal.CY5 a numeric vector
Lung_T12.1034271176.Avg_NBEADS a numeric vector
Lung_T12.1034271176.BEAD_STDERR a numeric vector
Lung_T13.1034271192.AVG_Beta a numeric vector
Lung_T13.1034271192.Signal.CY3 a numeric vector

Lung_T13.1034271192.Signal.CY5 a numeric vector
Lung_T13.1034271192.Avg_NBEADS a numeric vector
Lung_T13.1034271192.BEAD_STDERR a numeric vector
Lung_T14.1034271199.AVG_Beta a numeric vector
Lung_T14.1034271199.Signal.CY3 a numeric vector
Lung_T14.1034271199.Signal.CY5 a numeric vector
Lung_T14.1034271199.Avg_NBEADS a numeric vector
Lung_T14.1034271199.BEAD_STDERR a numeric vector
Lung_N15.1034271218.AVG_Beta a numeric vector
Lung_N15.1034271218.Signal.CY3 a numeric vector
Lung_N15.1034271218.Signal.CY5 a numeric vector
Lung_N15.1034271218.Avg_NBEADS a numeric vector
Lung_N15.1034271218.BEAD_STDERR a numeric vector
Lung_N16.1034271221.AVG_Beta a numeric vector
Lung_N16.1034271221.Signal.CY3 a numeric vector
Lung_N16.1034271221.Signal.CY5 a numeric vector
Lung_N16.1034271221.Avg_NBEADS a numeric vector
Lung_N16.1034271221.BEAD_STDERR a numeric vector
Lung_N17.1034269672.AVG_Beta a numeric vector
Lung_N17.1034269672.Signal.CY3 a numeric vector
Lung_N17.1034269672.Signal.CY5 a numeric vector
Lung_N17.1034269672.Avg_NBEADS a numeric vector
Lung_N17.1034269672.BEAD_STDERR a numeric vector
Lung_N18.1034247344.AVG_Beta a numeric vector
Lung_N18.1034247344.Signal.CY3 a numeric vector
Lung_N18.1034247344.Signal.CY5 a numeric vector
Lung_N18.1034247344.Avg_NBEADS a numeric vector
Lung_N18.1034247344.BEAD_STDERR a numeric vector
Lung_T19.1034247354.AVG_Beta a numeric vector
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Lung_T19.1034247354.Signal.CY5 a numeric vector
Lung_T19.1034247354.Avg_NBEADS a numeric vector
Lung_T19.1034247354.BEAD_STDERR a numeric vector
Lung_T2.1034270306.AVG_Beta a numeric vector
Lung_T2.1034270306.Signal.CY3 a numeric vector
Lung_T2.1034270306.Signal.CY5 a numeric vector
Lung_T2.1034270306.Avg_NBEADS a numeric vector

Lung_T2.1034270306.BEAD_STDERR a numeric vector
Lung_T20.1034247358.AVG_Beta a numeric vector
Lung_T20.1034247358.Signal.CY3 a numeric vector
Lung_T20.1034247358.Signal.CY5 a numeric vector
Lung_T20.1034247358.Avg_NBEADS a numeric vector
Lung_T20.1034247358.BEAD_STDERR a numeric vector
Lung_T21.1034247376.AVG_Beta a numeric vector
Lung_T21.1034247376.Signal.CY3 a numeric vector
Lung_T21.1034247376.Signal.CY5 a numeric vector
Lung_T21.1034247376.Avg_NBEADS a numeric vector
Lung_T21.1034247376.BEAD_STDERR a numeric vector
Lung_T22.1034247383.AVG_Beta a numeric vector
Lung_T22.1034247383.Signal.CY3 a numeric vector
Lung_T22.1034247383.Signal.CY5 a numeric vector
Lung_T22.1034247383.Avg_NBEADS a numeric vector
Lung_T22.1034247383.BEAD_STDERR a numeric vector
Lung_T23.1034247399.AVG_Beta a numeric vector
Lung_T23.1034247399.Signal.CY3 a numeric vector
Lung_T23.1034247399.Signal.CY5 a numeric vector
Lung_T23.1034247399.Avg_NBEADS a numeric vector
Lung_T23.1034247399.BEAD_STDERR a numeric vector
Lung_T24.1034247412.AVG_Beta a numeric vector
Lung_T24.1034247412.Signal.CY3 a numeric vector
Lung_T24.1034247412.Signal.CY5 a numeric vector
Lung_T24.1034247412.Avg_NBEADS a numeric vector
Lung_T24.1034247412.BEAD_STDERR a numeric vector
Lung_T25.1034247404.AVG_Beta a numeric vector
Lung_T25.1034247404.Signal.CY3 a numeric vector
Lung_T25.1034247404.Signal.CY5 a numeric vector
Lung_T25.1034247404.Avg_NBEADS a numeric vector
Lung_T25.1034247404.BEAD_STDERR a numeric vector
Lung_T3.1034270309.AVG_Beta a numeric vector
Lung_T3.1034270309.Signal.CY3 a numeric vector
Lung_T3.1034270309.Signal.CY5 a numeric vector
Lung_T3.1034270309.Avg_NBEADS a numeric vector
Lung_T3.1034270309.BEAD_STDERR a numeric vector
Lung_T4.1034270331.AVG_Beta a numeric vector

Lung_T4.1034270331.Signal.CY3 a numeric vector

Lung_T4.1034270331.Signal.CY5 a numeric vector

Lung_T4.1034270331.Avg_NBEADS a numeric vector

Lung_T4.1034270331.BEAD_STDERR a numeric vector

Lung_T5.1034270321.AVG_Beta a numeric vector

Lung_T5.1034270321.Signal.CY3 a numeric vector

Lung_T5.1034270321.Signal.CY5 a numeric vector

Lung_T5.1034270321.Avg_NBEADS a numeric vector

Lung_T5.1034270321.BEAD_STDERR a numeric vector

Lung_T7.1034270348.AVG_Beta a numeric vector

Lung_T7.1034270348.Signal.CY3 a numeric vector

Lung_T7.1034270348.Signal.CY5 a numeric vector

Lung_T7.1034270348.Avg_NBEADS a numeric vector

Lung_T7.1034270348.BEAD_STDERR a numeric vector

Lung_T8.1034270362.AVG_Beta a numeric vector

Lung_T8.1034270362.Signal.CY3 a numeric vector

Lung_T8.1034270362.Signal.CY5 a numeric vector

Lung_T8.1034270362.Avg_NBEADS a numeric vector

Lung_T8.1034270362.BEAD_STDERR a numeric vector

Lung_T9.1034269644.AVG_Beta a numeric vector

Lung_T9.1034269644.Signal.CY3 a numeric vector

Lung_T9.1034269644.Signal.CY5 a numeric vector

Lung_T9.1034269644.Avg_NBEADS a numeric vector

Lung_T9.1034269644.BEAD_STDERR a numeric vector

Wilms_N1.1034270294.AVG_Beta a numeric vector

Wilms_N1.1034270294.Signal.CY3 a numeric vector

Wilms_N1.1034270294.Signal.CY5 a numeric vector

Wilms_N1.1034270294.Avg_NBEADS a numeric vector

Wilms_N1.1034270294.BEAD_STDERR a numeric vector

Wilms_N10.1034271170.AVG_Beta a numeric vector

Wilms_N10.1034271170.Signal.CY3 a numeric vector

Wilms_N10.1034271170.Signal.CY5 a numeric vector

Wilms_N10.1034271170.Avg_NBEADS a numeric vector

Wilms_N10.1034271170.BEAD_STDERR a numeric vector

Wilms_N11.1034271172.AVG_Beta a numeric vector

Wilms_N11.1034271172.Signal.CY3 a numeric vector

Wilms_N11.1034271172.Signal.CY5 a numeric vector

Wilms_N11.1034271172.Avg_NBEADS a numeric vector
Wilms_N11.1034271172.BEAD_STDERR a numeric vector
Wilms_N12.1034271195.AVG_Beta a numeric vector
Wilms_N12.1034271195.Signal.CY3 a numeric vector
Wilms_N12.1034271195.Signal.CY5 a numeric vector
Wilms_N12.1034271195.Avg_NBEADS a numeric vector
Wilms_N12.1034271195.BEAD_STDERR a numeric vector
Wilms_N13.1034271196.AVG_Beta a numeric vector
Wilms_N13.1034271196.Signal.CY3 a numeric vector
Wilms_N13.1034271196.Signal.CY5 a numeric vector
Wilms_N13.1034271196.Avg_NBEADS a numeric vector
Wilms_N13.1034271196.BEAD_STDERR a numeric vector
Wilms_N14.1034271206.AVG_Beta a numeric vector
Wilms_N14.1034271206.Signal.CY3 a numeric vector
Wilms_N14.1034271206.Signal.CY5 a numeric vector
Wilms_N14.1034271206.Avg_NBEADS a numeric vector
Wilms_N14.1034271206.BEAD_STDERR a numeric vector
Wilms_N15.1034271210.AVG_Beta a numeric vector
Wilms_N15.1034271210.Signal.CY3 a numeric vector
Wilms_N15.1034271210.Signal.CY5 a numeric vector
Wilms_N15.1034271210.Avg_NBEADS a numeric vector
Wilms_N15.1034271210.BEAD_STDERR a numeric vector
Wilms_N16.1034269691.AVG_Beta a numeric vector
Wilms_N16.1034269691.Signal.CY3 a numeric vector
Wilms_N16.1034269691.Signal.CY5 a numeric vector
Wilms_N16.1034269691.Avg_NBEADS a numeric vector
Wilms_N16.1034269691.BEAD_STDERR a numeric vector
Wilms_N17.1034271237.AVG_Beta a numeric vector
Wilms_N17.1034271237.Signal.CY3 a numeric vector
Wilms_N17.1034271237.Signal.CY5 a numeric vector
Wilms_N17.1034271237.Avg_NBEADS a numeric vector
Wilms_N17.1034271237.BEAD_STDERR a numeric vector
Wilms_N18.1034247351.AVG_Beta a numeric vector
Wilms_N18.1034247351.Signal.CY3 a numeric vector
Wilms_N18.1034247351.Signal.CY5 a numeric vector
Wilms_N18.1034247351.Avg_NBEADS a numeric vector
Wilms_N18.1034247351.BEAD_STDERR a numeric vector

Wilms_N19.1034247361.AVG_Beta a numeric vector
Wilms_N19.1034247361.Signal.CY3 a numeric vector
Wilms_N19.1034247361.Signal.CY5 a numeric vector
Wilms_N19.1034247361.Avg_NBEADS a numeric vector
Wilms_N19.1034247361.BEAD_STDERR a numeric vector
Wilms_N2.1034270299.AVG_Beta a numeric vector
Wilms_N2.1034270299.Signal.CY3 a numeric vector
Wilms_N2.1034270299.Signal.CY5 a numeric vector
Wilms_N2.1034270299.Avg_NBEADS a numeric vector
Wilms_N2.1034270299.BEAD_STDERR a numeric vector
Wilms_N20.1034247373.AVG_Beta a numeric vector
Wilms_N20.1034247373.Signal.CY3 a numeric vector
Wilms_N20.1034247373.Signal.CY5 a numeric vector
Wilms_N20.1034247373.Avg_NBEADS a numeric vector
Wilms_N20.1034247373.BEAD_STDERR a numeric vector
Wilms_N21.1034247387.AVG_Beta a numeric vector
Wilms_N21.1034247387.Signal.CY3 a numeric vector
Wilms_N21.1034247387.Signal.CY5 a numeric vector
Wilms_N21.1034247387.Avg_NBEADS a numeric vector
Wilms_N21.1034247387.BEAD_STDERR a numeric vector
Wilms_N22.1034247396.AVG_Beta a numeric vector
Wilms_N22.1034247396.Signal.CY3 a numeric vector
Wilms_N22.1034247396.Signal.CY5 a numeric vector
Wilms_N22.1034247396.Avg_NBEADS a numeric vector
Wilms_N22.1034247396.BEAD_STDERR a numeric vector
Wilms_N23.1034247413.AVG_Beta a numeric vector
Wilms_N23.1034247413.Signal.CY3 a numeric vector
Wilms_N23.1034247413.Signal.CY5 a numeric vector
Wilms_N23.1034247413.Avg_NBEADS a numeric vector
Wilms_N23.1034247413.BEAD_STDERR a numeric vector
Wilms_N24.1034247405.AVG_Beta a numeric vector
Wilms_N24.1034247405.Signal.CY3 a numeric vector
Wilms_N24.1034247405.Signal.CY5 a numeric vector
Wilms_N24.1034247405.Avg_NBEADS a numeric vector
Wilms_N24.1034247405.BEAD_STDERR a numeric vector
Wilms_N25.1034247424.AVG_Beta a numeric vector
Wilms_N25.1034247424.Signal.CY3 a numeric vector

Wilms_N25.1034247424.Signal.CY5 a numeric vector
Wilms_N25.1034247424.Avg_NBEADS a numeric vector
Wilms_N25.1034247424.BEAD_STDERR a numeric vector
Wilms_N26.1034247436.AVG_Beta a numeric vector
Wilms_N26.1034247436.Signal.CY3 a numeric vector
Wilms_N26.1034247436.Signal.CY5 a numeric vector
Wilms_N26.1034247436.Avg_NBEADS a numeric vector
Wilms_N26.1034247436.BEAD_STDERR a numeric vector
Wilms_N3.1034270316.AVG_Beta a numeric vector
Wilms_N3.1034270316.Signal.CY3 a numeric vector
Wilms_N3.1034270316.Signal.CY5 a numeric vector
Wilms_N3.1034270316.Avg_NBEADS a numeric vector
Wilms_N3.1034270316.BEAD_STDERR a numeric vector
Wilms_N4.1034270324.AVG_Beta a numeric vector
Wilms_N4.1034270324.Signal.CY3 a numeric vector
Wilms_N4.1034270324.Signal.CY5 a numeric vector
Wilms_N4.1034270324.Avg_NBEADS a numeric vector
Wilms_N4.1034270324.BEAD_STDERR a numeric vector
Wilms_N5.1034270338.AVG_Beta a numeric vector
Wilms_N5.1034270338.Signal.CY3 a numeric vector
Wilms_N5.1034270338.Signal.CY5 a numeric vector
Wilms_N5.1034270338.Avg_NBEADS a numeric vector
Wilms_N5.1034270338.BEAD_STDERR a numeric vector
Wilms_N6.1034270351.AVG_Beta a numeric vector
Wilms_N6.1034270351.Signal.CY3 a numeric vector
Wilms_N6.1034270351.Signal.CY5 a numeric vector
Wilms_N6.1034270351.Avg_NBEADS a numeric vector
Wilms_N6.1034270351.BEAD_STDERR a numeric vector
Wilms_N8.1034270376.AVG_Beta a numeric vector
Wilms_N8.1034270376.Signal.CY3 a numeric vector
Wilms_N8.1034270376.Signal.CY5 a numeric vector
Wilms_N8.1034270376.Avg_NBEADS a numeric vector
Wilms_N8.1034270376.BEAD_STDERR a numeric vector
Wilms_N9.1034271151.AVG_Beta a numeric vector
Wilms_N9.1034271151.Signal.CY3 a numeric vector
Wilms_N9.1034271151.Signal.CY5 a numeric vector
Wilms_N9.1034271151.Avg_NBEADS a numeric vector

Wilms_N9.1034271151.BEAD_STDERR a numeric vector

Wilms_T1.1034270293.AVG_Beta a numeric vector

Wilms_T1.1034270293.Signal.CY3 a numeric vector

Wilms_T1.1034270293.Signal.CY5 a numeric vector

Wilms_T1.1034270293.Avg_NBEADS a numeric vector

Wilms_T1.1034270293.BEAD_STDERR a numeric vector

Wilms_T10.1034269694.AVG_Beta a numeric vector

Wilms_T10.1034269694.Signal.CY3 a numeric vector

Wilms_T10.1034269694.Signal.CY5 a numeric vector

Wilms_T10.1034269694.Avg_NBEADS a numeric vector

Wilms_T10.1034269694.BEAD_STDERR a numeric vector

Wilms_T11.1034271173.AVG_Beta a numeric vector

Wilms_T11.1034271173.Signal.CY3 a numeric vector

Wilms_T11.1034271173.Signal.CY5 a numeric vector

Wilms_T11.1034271173.Avg_NBEADS a numeric vector

Wilms_T11.1034271173.BEAD_STDERR a numeric vector

Wilms_T12.1034271183.AVG_Beta a numeric vector

Wilms_T12.1034271183.Signal.CY3 a numeric vector

Wilms_T12.1034271183.Signal.CY5 a numeric vector

Wilms_T12.1034271183.Avg_NBEADS a numeric vector

Wilms_T12.1034271183.BEAD_STDERR a numeric vector

Wilms_T13.1034271185.AVG_Beta a numeric vector

Wilms_T13.1034271185.Signal.CY3 a numeric vector

Wilms_T13.1034271185.Signal.CY5 a numeric vector

Wilms_T13.1034271185.Avg_NBEADS a numeric vector

Wilms_T13.1034271185.BEAD_STDERR a numeric vector

Wilms_T14.1034271205.AVG_Beta a numeric vector

Wilms_T14.1034271205.Signal.CY3 a numeric vector

Wilms_T14.1034271205.Signal.CY5 a numeric vector

Wilms_T14.1034271205.Avg_NBEADS a numeric vector

Wilms_T14.1034271205.BEAD_STDERR a numeric vector

Wilms_T15.1034271211.AVG_Beta a numeric vector

Wilms_T15.1034271211.Signal.CY3 a numeric vector

Wilms_T15.1034271211.Signal.CY5 a numeric vector

Wilms_T15.1034271211.Avg_NBEADS a numeric vector

Wilms_T15.1034271211.BEAD_STDERR a numeric vector

Wilms_T16.1034271226.AVG_Beta a numeric vector

Wilms_T16.1034271226.Signal.CY3 a numeric vector

Wilms_T16.1034271226.Signal.CY5 a numeric vector

Wilms_T16.1034271226.Avg_NBEADS a numeric vector

Wilms_T16.1034271226.BEAD_STDERR a numeric vector

Wilms_T17.1034271238.AVG_Beta a numeric vector

Wilms_T17.1034271238.Signal.CY3 a numeric vector

Wilms_T17.1034271238.Signal.CY5 a numeric vector

Wilms_T17.1034271238.Avg_NBEADS a numeric vector

Wilms_T17.1034271238.BEAD_STDERR a numeric vector

Wilms_T18.1034247350.AVG_Beta a numeric vector

Wilms_T18.1034247350.Signal.CY3 a numeric vector

Wilms_T18.1034247350.Signal.CY5 a numeric vector

Wilms_T18.1034247350.Avg_NBEADS a numeric vector

Wilms_T18.1034247350.BEAD_STDERR a numeric vector

Wilms_T19.1034247362.AVG_Beta a numeric vector

Wilms_T19.1034247362.Signal.CY3 a numeric vector

Wilms_T19.1034247362.Signal.CY5 a numeric vector

Wilms_T19.1034247362.Avg_NBEADS a numeric vector

Wilms_T19.1034247362.BEAD_STDERR a numeric vector

Wilms_T2.1034270300.AVG_Beta a numeric vector

Wilms_T2.1034270300.Signal.CY3 a numeric vector

Wilms_T2.1034270300.Signal.CY5 a numeric vector

Wilms_T2.1034270300.Avg_NBEADS a numeric vector

Wilms_T2.1034270300.BEAD_STDERR a numeric vector

Wilms_T20.1034247372.AVG_Beta a numeric vector

Wilms_T20.1034247372.Signal.CY3 a numeric vector

Wilms_T20.1034247372.Signal.CY5 a numeric vector

Wilms_T20.1034247372.Avg_NBEADS a numeric vector

Wilms_T20.1034247372.BEAD_STDERR a numeric vector

Wilms_T21.1034247388.AVG_Beta a numeric vector

Wilms_T21.1034247388.Signal.CY3 a numeric vector

Wilms_T21.1034247388.Signal.CY5 a numeric vector

Wilms_T21.1034247388.Avg_NBEADS a numeric vector

Wilms_T21.1034247388.BEAD_STDERR a numeric vector

Wilms_T22.1034247395.AVG_Beta a numeric vector

Wilms_T22.1034247395.Signal.CY3 a numeric vector

Wilms_T22.1034247395.Signal.CY5 a numeric vector

Wilms_T22.1034247395.Avg_NBEADS a numeric vector
Wilms_T22.1034247395.BEAD_STDERR a numeric vector
Wilms_T23.1034247414.AVG_Beta a numeric vector
Wilms_T23.1034247414.Signal.CY3 a numeric vector
Wilms_T23.1034247414.Signal.CY5 a numeric vector
Wilms_T23.1034247414.Avg_NBEADS a numeric vector
Wilms_T23.1034247414.BEAD_STDERR a numeric vector
Wilms_T24.1034247406.AVG_Beta a numeric vector
Wilms_T24.1034247406.Signal.CY3 a numeric vector
Wilms_T24.1034247406.Signal.CY5 a numeric vector
Wilms_T24.1034247406.Avg_NBEADS a numeric vector
Wilms_T24.1034247406.BEAD_STDERR a numeric vector
Wilms_T25.1034247422.AVG_Beta a numeric vector
Wilms_T25.1034247422.Signal.CY3 a numeric vector
Wilms_T25.1034247422.Signal.CY5 a numeric vector
Wilms_T25.1034247422.Avg_NBEADS a numeric vector
Wilms_T25.1034247422.BEAD_STDERR a numeric vector
Wilms_T26.1034247437.AVG_Beta a numeric vector
Wilms_T26.1034247437.Signal.CY3 a numeric vector
Wilms_T26.1034247437.Signal.CY5 a numeric vector
Wilms_T26.1034247437.Avg_NBEADS a numeric vector
Wilms_T26.1034247437.BEAD_STDERR a numeric vector
Wilms_T3.1034270315.AVG_Beta a numeric vector
Wilms_T3.1034270315.Signal.CY3 a numeric vector
Wilms_T3.1034270315.Signal.CY5 a numeric vector
Wilms_T3.1034270315.Avg_NBEADS a numeric vector
Wilms_T3.1034270315.BEAD_STDERR a numeric vector
Wilms_T4.1034270325.AVG_Beta a numeric vector
Wilms_T4.1034270325.Signal.CY3 a numeric vector
Wilms_T4.1034270325.Signal.CY5 a numeric vector
Wilms_T4.1034270325.Avg_NBEADS a numeric vector
Wilms_T4.1034270325.BEAD_STDERR a numeric vector
Wilms_T5.1034270337.AVG_Beta a numeric vector
Wilms_T5.1034270337.Signal.CY3 a numeric vector
Wilms_T5.1034270337.Signal.CY5 a numeric vector
Wilms_T5.1034270337.Avg_NBEADS a numeric vector
Wilms_T5.1034270337.BEAD_STDERR a numeric vector

Wilms_T6.1034270352.AVG_Beta a numeric vector

Wilms_T6.1034270352.Signal.CY3 a numeric vector

Wilms_T6.1034270352.Signal.CY5 a numeric vector

Wilms_T6.1034270352.Avg_NBEADS a numeric vector

Wilms_T6.1034270352.BEAD_STDERR a numeric vector

Wilms_T8.1034270377.AVG_Beta a numeric vector

Wilms_T8.1034270377.Signal.CY3 a numeric vector

Wilms_T8.1034270377.Signal.CY5 a numeric vector

Wilms_T8.1034270377.Avg_NBEADS a numeric vector

Wilms_T8.1034270377.BEAD_STDERR a numeric vector

Wilms_T9.1034269698.AVG_Beta a numeric vector

Wilms_T9.1034269698.Signal.CY3 a numeric vector

Wilms_T9.1034269698.Signal.CY5 a numeric vector

Wilms_T9.1034269698.Avg_NBEADS a numeric vector

Wilms_T9.1034269698.BEAD_STDERR a numeric vector

ThyPTC_T5.0098609768.AVG_Beta a numeric vector

ThyPTC_T5.0098609768.Signal.CY3 a numeric vector

ThyPTC_T5.0098609768.Signal.CY5 a numeric vector

ThyPTC_T5.0098609768.Avg_NBEADS a numeric vector

ThyPTC_T5.0098609768.BEAD_STDERR a numeric vector

ThyPTC_N5.0098609752.AVG_Beta a numeric vector

ThyPTC_N5.0098609752.Signal.CY3 a numeric vector

ThyPTC_N5.0098609752.Signal.CY5 a numeric vector

ThyPTC_N5.0098609752.Avg_NBEADS a numeric vector

ThyPTC_N5.0098609752.BEAD_STDERR a numeric vector

ThyFA_N6.0098612947.AVG_Beta a numeric vector

ThyFA_N6.0098612947.Signal.CY3 a numeric vector

ThyFA_N6.0098612947.Signal.CY5 a numeric vector

ThyFA_N6.0098612947.Avg_NBEADS a numeric vector

ThyFA_N6.0098612947.BEAD_STDERR a numeric vector

ThyFC_T6.0098612948.AVG_Beta a numeric vector

ThyFC_T6.0098612948.Signal.CY3 a numeric vector

ThyFC_T6.0098612948.Signal.CY5 a numeric vector

ThyFC_T6.0098612948.Avg_NBEADS a numeric vector

ThyFC_T6.0098612948.BEAD_STDERR a numeric vector

ThyFVPTC_T6.0098612949.AVG_Beta a numeric vector

ThyFVPTC_T6.0098612949.Signal.CY3 a numeric vector

ThyFVPTC_T6.0098612949.Signal.CY5 a numeric vector
ThyFVPTC_T6.0098612949.Avg_NBEADS a numeric vector
ThyFVPTC_T6.0098612949.BEAD_STDERR a numeric vector
ThyFVPTC_N6.0098612950.AVG_Beta a numeric vector
ThyFVPTC_N6.0098612950.Signal.CY3 a numeric vector
ThyFVPTC_N6.0098612950.Signal.CY5 a numeric vector
ThyFVPTC_N6.0098612950.Avg_NBEADS a numeric vector
ThyFVPTC_N6.0098612950.BEAD_STDERR a numeric vector
Adenoma_T7.0098612937.AVG_Beta a numeric vector
Adenoma_T7.0098612937.Signal.CY3 a numeric vector
Adenoma_T7.0098612937.Signal.CY5 a numeric vector
Adenoma_T7.0098612937.Avg_NBEADS a numeric vector
Adenoma_T7.0098612937.BEAD_STDERR a numeric vector
ThyPTC_N7.0098612923.AVG_Beta a numeric vector
ThyPTC_N7.0098612923.Signal.CY3 a numeric vector
ThyPTC_N7.0098612923.Signal.CY5 a numeric vector
ThyPTC_N7.0098612923.Avg_NBEADS a numeric vector
ThyPTC_N7.0098612923.BEAD_STDERR a numeric vector
Adenoma_T8.0098612925.AVG_Beta a numeric vector
Adenoma_T8.0098612925.Signal.CY3 a numeric vector
Adenoma_T8.0098612925.Signal.CY5 a numeric vector
Adenoma_T8.0098612925.Avg_NBEADS a numeric vector
Adenoma_T8.0098612925.BEAD_STDERR a numeric vector
Adenoma_T9.0098612914.AVG_Beta a numeric vector
Adenoma_T9.0098612914.Signal.CY3 a numeric vector
Adenoma_T9.0098612914.Signal.CY5 a numeric vector
Adenoma_T9.0098612914.Avg_NBEADS a numeric vector
Adenoma_T9.0098612914.BEAD_STDERR a numeric vector
ThyFA_N9.0098612911.AVG_Beta a numeric vector
ThyFA_N9.0098612911.Signal.CY3 a numeric vector
ThyFA_N9.0098612911.Signal.CY5 a numeric vector
ThyFA_N9.0098612911.Avg_NBEADS a numeric vector
ThyFA_N9.0098612911.BEAD_STDERR a numeric vector
ThyFA_N10.0098612901.AVG_Beta a numeric vector
ThyFA_N10.0098612901.Signal.CY3 a numeric vector
ThyFA_N10.0098612901.Signal.CY5 a numeric vector
ThyFA_N10.0098612901.Avg_NBEADS a numeric vector

ThyFA_N10.0098612901.BEAD_STDERR a numeric vector
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Adenoma_T14.0098612890.Signal.CY3 a numeric vector
Adenoma_T14.0098612890.Signal.CY5 a numeric vector
Adenoma_T14.0098612890.Avg_NBEADS a numeric vector
Adenoma_T14.0098612890.BEAD_STDERR a numeric vector
Adenoma_T15.0098612889.AVG_Beta a numeric vector
Adenoma_T15.0098612889.Signal.CY3 a numeric vector
Adenoma_T15.0098612889.Signal.CY5 a numeric vector
Adenoma_T15.0098612889.Avg_NBEADS a numeric vector
Adenoma_T15.0098612889.BEAD_STDERR a numeric vector
Adenoma_T16.0098612888.AVG_Beta a numeric vector
Adenoma_T16.0098612888.Signal.CY3 a numeric vector
Adenoma_T16.0098612888.Signal.CY5 a numeric vector
Adenoma_T16.0098612888.Avg_NBEADS a numeric vector
Adenoma_T16.0098612888.BEAD_STDERR a numeric vector
Adenoma_T17.0098612887.AVG_Beta a numeric vector
Adenoma_T17.0098612887.Signal.CY3 a numeric vector
Adenoma_T17.0098612887.Signal.CY5 a numeric vector
Adenoma_T17.0098612887.Avg_NBEADS a numeric vector
Adenoma_T17.0098612887.BEAD_STDERR a numeric vector
Breast_N30.0098612875.AVG_Beta a numeric vector
Breast_N30.0098612875.Signal.CY3 a numeric vector
Breast_N30.0098612875.Signal.CY5 a numeric vector
Breast_N30.0098612875.Avg_NBEADS a numeric vector
Breast_N30.0098612875.BEAD_STDERR a numeric vector
Colon_N31.0098612876.AVG_Beta a numeric vector
Colon_N31.0098612876.Signal.CY3 a numeric vector
Colon_N31.0098612876.Signal.CY5 a numeric vector
Colon_N31.0098612876.Avg_NBEADS a numeric vector
Colon_N31.0098612876.BEAD_STDERR a numeric vector
Colon_T31.0098612877.AVG_Beta a numeric vector
Colon_T31.0098612877.Signal.CY3 a numeric vector
Colon_T31.0098612877.Signal.CY5 a numeric vector
Colon_T31.0098612877.Avg_NBEADS a numeric vector
Colon_T31.0098612877.BEAD_STDERR a numeric vector
Breast_T31.0098612878.AVG_Beta a numeric vector

Breast_T31.0098612878.Signal.CY3 a numeric vector

Breast_T31.0098612878.Signal.CY5 a numeric vector

Breast_T31.0098612878.Avg_NBEADS a numeric vector

Breast_T31.0098612878.BEAD_STDERR a numeric vector

ThyPTC_T6.0098612953.AVG_Beta a numeric vector

ThyPTC_T6.0098612953.Signal.CY3 a numeric vector

ThyPTC_T6.0098612953.Signal.CY5 a numeric vector

ThyPTC_T6.0098612953.Avg_NBEADS a numeric vector

ThyPTC_T6.0098612953.BEAD_STDERR a numeric vector

ThyPTC_N6.0098612954.AVG_Beta a numeric vector

ThyPTC_N6.0098612954.Signal.CY3 a numeric vector

ThyPTC_N6.0098612954.Signal.CY5 a numeric vector

ThyPTC_N6.0098612954.Avg_NBEADS a numeric vector

ThyPTC_N6.0098612954.BEAD_STDERR a numeric vector

ThyFA_N7.0098612933.AVG_Beta a numeric vector

ThyFA_N7.0098612933.Signal.CY3 a numeric vector

ThyFA_N7.0098612933.Signal.CY5 a numeric vector

ThyFA_N7.0098612933.Avg_NBEADS a numeric vector

ThyFA_N7.0098612933.BEAD_STDERR a numeric vector

ThyFC_T7.0098612932.AVG_Beta a numeric vector

ThyFC_T7.0098612932.Signal.CY3 a numeric vector

ThyFC_T7.0098612932.Signal.CY5 a numeric vector

ThyFC_T7.0098612932.Avg_NBEADS a numeric vector

ThyFC_T7.0098612932.BEAD_STDERR a numeric vector

ThyFVPTC_T7.0098612931.AVG_Beta a numeric vector

ThyFVPTC_T7.0098612931.Signal.CY3 a numeric vector

ThyFVPTC_T7.0098612931.Signal.CY5 a numeric vector

ThyFVPTC_T7.0098612931.Avg_NBEADS a numeric vector

ThyFVPTC_T7.0098612931.BEAD_STDERR a numeric vector

ThyFA_N8.0098612928.AVG_Beta a numeric vector

ThyFA_N8.0098612928.Signal.CY3 a numeric vector

ThyFA_N8.0098612928.Signal.CY5 a numeric vector

ThyFA_N8.0098612928.Avg_NBEADS a numeric vector

ThyFA_N8.0098612928.BEAD_STDERR a numeric vector

ThyFC_T8.0098612929.AVG_Beta a numeric vector

ThyFC_T8.0098612929.Signal.CY3 a numeric vector

ThyFC_T8.0098612929.Signal.CY5 a numeric vector

ThyFC_T8.0098612929.Avg_NBEADS a numeric vector

ThyFC_T8.0098612929.BEAD_STDERR a numeric vector

ThyFVPTC_T8.0098612930.AVG_Beta a numeric vector

ThyFVPTC_T8.0098612930.Signal.CY3 a numeric vector

ThyFVPTC_T8.0098612930.Signal.CY5 a numeric vector

ThyFVPTC_T8.0098612930.Avg_NBEADS a numeric vector

ThyFVPTC_T8.0098612930.BEAD_STDERR a numeric vector

ThyFC_T9.0098612909.AVG_Beta a numeric vector

ThyFC_T9.0098612909.Signal.CY3 a numeric vector

ThyFC_T9.0098612909.Signal.CY5 a numeric vector

ThyFC_T9.0098612909.Avg_NBEADS a numeric vector

ThyFC_T9.0098612909.BEAD_STDERR a numeric vector

ThyFVPTC_T9.0098612908.AVG_Beta a numeric vector

ThyFVPTC_T9.0098612908.Signal.CY3 a numeric vector

ThyFVPTC_T9.0098612908.Signal.CY5 a numeric vector

ThyFVPTC_T9.0098612908.Avg_NBEADS a numeric vector

ThyFVPTC_T9.0098612908.BEAD_STDERR a numeric vector

ThyFVPTC_T10.0098612904.AVG_Beta a numeric vector

ThyFVPTC_T10.0098612904.Signal.CY3 a numeric vector

ThyFVPTC_T10.0098612904.Signal.CY5 a numeric vector

ThyFVPTC_T10.0098612904.Avg_NBEADS a numeric vector

ThyFVPTC_T10.0098612904.BEAD_STDERR a numeric vector

Adenoma_T18.0098612886.AVG_Beta a numeric vector

Adenoma_T18.0098612886.Signal.CY3 a numeric vector

Adenoma_T18.0098612886.Signal.CY5 a numeric vector

Adenoma_T18.0098612886.Avg_NBEADS a numeric vector

Adenoma_T18.0098612886.BEAD_STDERR a numeric vector

Breast_T27.0098612885.AVG_Beta a numeric vector

Breast_T27.0098612885.Signal.CY3 a numeric vector

Breast_T27.0098612885.Signal.CY5 a numeric vector

Breast_T27.0098612885.Avg_NBEADS a numeric vector

Breast_T27.0098612885.BEAD_STDERR a numeric vector

Breast_N27.0098612884.AVG_Beta a numeric vector

Breast_N27.0098612884.Signal.CY3 a numeric vector

Breast_N27.0098612884.Signal.CY5 a numeric vector

Breast_N27.0098612884.Avg_NBEADS a numeric vector

Breast_N27.0098612884.BEAD_STDERR a numeric vector

Breast_T28.0098612883.AVG_Beta a numeric vector

Breast_T28.0098612883.Signal.CY3 a numeric vector

Breast_T28.0098612883.Signal.CY5 a numeric vector

Breast_T28.0098612883.Avg_NBEADS a numeric vector

Breast_T28.0098612883.BEAD_STDERR a numeric vector

Breast_N31.0098609762.AVG_Beta a numeric vector

Breast_N31.0098609762.Signal.CY3 a numeric vector

Breast_N31.0098609762.Signal.CY5 a numeric vector

Breast_N31.0098609762.Avg_NBEADS a numeric vector

Breast_N31.0098609762.BEAD_STDERR a numeric vector

Colon_N32.0098612881.AVG_Beta a numeric vector

Colon_N32.0098612881.Signal.CY3 a numeric vector

Colon_N32.0098612881.Signal.CY5 a numeric vector

Colon_N32.0098612881.Avg_NBEADS a numeric vector

Colon_N32.0098612881.BEAD_STDERR a numeric vector

Colon_T32.0098612882.AVG_Beta a numeric vector

Colon_T32.0098612882.Signal.CY3 a numeric vector

Colon_T32.0098612882.Signal.CY5 a numeric vector

Colon_T32.0098612882.Avg_NBEADS a numeric vector

Colon_T32.0098612882.BEAD_STDERR a numeric vector

Adenoma_T1.0098609735.AVG_Beta a numeric vector

Adenoma_T1.0098609735.Signal.CY3 a numeric vector

Adenoma_T1.0098609735.Signal.CY5 a numeric vector

Adenoma_T1.0098609735.Avg_NBEADS a numeric vector

Adenoma_T1.0098609735.BEAD_STDERR a numeric vector

DCIS_N1.0098611332.AVG_Beta a numeric vector

DCIS_N1.0098611332.Signal.CY3 a numeric vector

DCIS_N1.0098611332.Signal.CY5 a numeric vector

DCIS_N1.0098611332.Avg_NBEADS a numeric vector

DCIS_N1.0098611332.BEAD_STDERR a numeric vector

ThyPTC_N1.0098609733.AVG_Beta a numeric vector

ThyPTC_N1.0098609733.Signal.CY3 a numeric vector

ThyPTC_N1.0098609733.Signal.CY5 a numeric vector

ThyPTC_N1.0098609733.Avg_NBEADS a numeric vector

ThyPTC_N1.0098609733.BEAD_STDERR a numeric vector

Adenoma_T2.0098611310.AVG_Beta a numeric vector

Adenoma_T2.0098611310.Signal.CY3 a numeric vector

Adenoma_T2.0098611310.Signal.CY5 a numeric vector

Adenoma_T2.0098611310.Avg_NBEADS a numeric vector

Adenoma_T2.0098611310.BEAD_STDERR a numeric vector

DCIS_N2.0098609741.AVG_Beta a numeric vector

DCIS_N2.0098609741.Signal.CY3 a numeric vector

DCIS_N2.0098609741.Signal.CY5 a numeric vector

DCIS_N2.0098609741.Avg_NBEADS a numeric vector

DCIS_N2.0098609741.BEAD_STDERR a numeric vector

ThyPTC_T2.0098609731.AVG_Beta a numeric vector

ThyPTC_T2.0098609731.Signal.CY3 a numeric vector

ThyPTC_T2.0098609731.Signal.CY5 a numeric vector

ThyPTC_T2.0098609731.Avg_NBEADS a numeric vector

ThyPTC_T2.0098609731.BEAD_STDERR a numeric vector

ThyPTC_N2.0098611288.AVG_Beta a numeric vector

ThyPTC_N2.0098611288.Signal.CY3 a numeric vector

ThyPTC_N2.0098611288.Signal.CY5 a numeric vector

ThyPTC_N2.0098611288.Avg_NBEADS a numeric vector

ThyPTC_N2.0098611288.BEAD_STDERR a numeric vector

DCIS_N3.0098611285.AVG_Beta a numeric vector

DCIS_N3.0098611285.Signal.CY3 a numeric vector

DCIS_N3.0098611285.Signal.CY5 a numeric vector

DCIS_N3.0098611285.Avg_NBEADS a numeric vector

DCIS_N3.0098611285.BEAD_STDERR a numeric vector

ThyPTC_N3.0098611263.AVG_Beta a numeric vector

ThyPTC_N3.0098611263.Signal.CY3 a numeric vector

ThyPTC_N3.0098611263.Signal.CY5 a numeric vector

ThyPTC_N3.0098611263.Avg_NBEADS a numeric vector

ThyPTC_N3.0098611263.BEAD_STDERR a numeric vector

ThyFA_N4.0098611260.AVG_Beta a numeric vector

ThyFA_N4.0098611260.Signal.CY3 a numeric vector

ThyFA_N4.0098611260.Signal.CY5 a numeric vector

ThyFA_N4.0098611260.Avg_NBEADS a numeric vector

ThyFA_N4.0098611260.BEAD_STDERR a numeric vector

ThyFC_T4.0098611259.AVG_Beta a numeric vector

ThyFC_T4.0098611259.Signal.CY3 a numeric vector

ThyFC_T4.0098611259.Signal.CY5 a numeric vector

ThyFC_T4.0098611259.Avg_NBEADS a numeric vector

ThyFC_T4.0098611259.BEAD_STDERR a numeric vector

ThyFA_N1.0098611330.AVG_Beta a numeric vector

ThyFA_N1.0098611330.Signal.CY3 a numeric vector

ThyFA_N1.0098611330.Signal.CY5 a numeric vector

ThyFA_N1.0098611330.Avg_NBEADS a numeric vector

ThyFA_N1.0098611330.BEAD_STDERR a numeric vector

ThyFC_T1.0098611328.AVG_Beta a numeric vector

ThyFC_T1.0098611328.Signal.CY3 a numeric vector

ThyFC_T1.0098611328.Signal.CY5 a numeric vector

ThyFC_T1.0098611328.Avg_NBEADS a numeric vector

ThyFC_T1.0098611328.BEAD_STDERR a numeric vector

ThyFVPTC_T1.0098611327.AVG_Beta a numeric vector

ThyFVPTC_T1.0098611327.Signal.CY3 a numeric vector

ThyFVPTC_T1.0098611327.Signal.CY5 a numeric vector

ThyFVPTC_T1.0098611327.Avg_NBEADS a numeric vector

ThyFVPTC_T1.0098611327.BEAD_STDERR a numeric vector

ThyFA_N2.0098611305.AVG_Beta a numeric vector

ThyFA_N2.0098611305.Signal.CY3 a numeric vector

ThyFA_N2.0098611305.Signal.CY5 a numeric vector

ThyFA_N2.0098611305.Avg_NBEADS a numeric vector

ThyFA_N2.0098611305.BEAD_STDERR a numeric vector

ThyFC_T2.0098611304.AVG_Beta a numeric vector

ThyFC_T2.0098611304.Signal.CY3 a numeric vector

ThyFC_T2.0098611304.Signal.CY5 a numeric vector

ThyFC_T2.0098611304.Avg_NBEADS a numeric vector

ThyFC_T2.0098611304.BEAD_STDERR a numeric vector

ThyFVPTC_T2.0098611303.AVG_Beta a numeric vector

ThyFVPTC_T2.0098611303.Signal.CY3 a numeric vector

ThyFVPTC_T2.0098611303.Signal.CY5 a numeric vector

ThyFVPTC_T2.0098611303.Avg_NBEADS a numeric vector

ThyFVPTC_T2.0098611303.BEAD_STDERR a numeric vector

ThyFC_T3.0098611281.AVG_Beta a numeric vector

ThyFC_T3.0098611281.Signal.CY3 a numeric vector

ThyFC_T3.0098611281.Signal.CY5 a numeric vector

ThyFC_T3.0098611281.Avg_NBEADS a numeric vector

ThyFC_T3.0098611281.BEAD_STDERR a numeric vector

ThyFVPTC_T3.0098611279.AVG_Beta a numeric vector

ThyFVPTC_T3.0098611279.Signal.CY3 a numeric vector

ThyFVPTC_T3.0098611279.Signal.CY5 a numeric vector

ThyFVPTC_T3.0098611279.Avg_NBEADS a numeric vector

ThyFVPTC_T3.0098611279.BEAD_STDERR a numeric vector

ThyFC_T10.0098611270.AVG_Beta a numeric vector

ThyFC_T10.0098611270.Signal.CY3 a numeric vector

ThyFC_T10.0098611270.Signal.CY5 a numeric vector

ThyFC_T10.0098611270.Avg_NBEADS a numeric vector

ThyFC_T10.0098611270.BEAD_STDERR a numeric vector

ThyFVPTC_T4.0098611258.AVG_Beta a numeric vector

ThyFVPTC_T4.0098611258.Signal.CY3 a numeric vector

ThyFVPTC_T4.0098611258.Signal.CY5 a numeric vector

ThyFVPTC_T4.0098611258.Avg_NBEADS a numeric vector

ThyFVPTC_T4.0098611258.BEAD_STDERR a numeric vector

ThyFVPTC_N4.0098609745.AVG_Beta a numeric vector

ThyFVPTC_N4.0098609745.Signal.CY3 a numeric vector

ThyFVPTC_N4.0098609745.Signal.CY5 a numeric vector

ThyFVPTC_N4.0098609745.Avg_NBEADS a numeric vector

ThyFVPTC_N4.0098609745.BEAD_STDERR a numeric vector

Adenoma_T5.0098611244.AVG_Beta a numeric vector

Adenoma_T5.0098611244.Signal.CY3 a numeric vector

Adenoma_T5.0098611244.Signal.CY5 a numeric vector

Adenoma_T5.0098611244.Avg_NBEADS a numeric vector

Adenoma_T5.0098611244.BEAD_STDERR a numeric vector

ThyFC_T5.0098612966.AVG_Beta a numeric vector

ThyFC_T5.0098612966.Signal.CY3 a numeric vector

ThyFC_T5.0098612966.Signal.CY5 a numeric vector

ThyFC_T5.0098612966.Avg_NBEADS a numeric vector

ThyFC_T5.0098612966.BEAD_STDERR a numeric vector

ThyFVPTC_T5.0098612964.AVG_Beta a numeric vector

ThyFVPTC_T5.0098612964.Signal.CY3 a numeric vector

ThyFVPTC_T5.0098612964.Signal.CY5 a numeric vector

ThyFVPTC_T5.0098612964.Avg_NBEADS a numeric vector

ThyFVPTC_T5.0098612964.BEAD_STDERR a numeric vector

ThyFVPTC_N5.0098612963.AVG_Beta a numeric vector

ThyFVPTC_N5.0098612963.Signal.CY3 a numeric vector

ThyFVPTC_N5.0098612963.Signal.CY5 a numeric vector

ThyFVPTC_N5.0098612963.Avg_NBEADS a numeric vector

ThyFVPTC_N5.0098612963.BEAD_STDERR a numeric vector

Adenoma_T6.0098612943.AVG_Beta a numeric vector

Adenoma_T6.0098612943.Signal.CY3 a numeric vector

Adenoma_T6.0098612943.Signal.CY5 a numeric vector

Adenoma_T6.0098612943.Avg_NBEADS a numeric vector

Adenoma_T6.0098612943.BEAD_STDERR a numeric vector

ThyFVPTC_N7.0098612919.AVG_Beta a numeric vector

ThyFVPTC_N7.0098612919.Signal.CY3 a numeric vector

ThyFVPTC_N7.0098612919.Signal.CY5 a numeric vector

ThyFVPTC_N7.0098612919.Avg_NBEADS a numeric vector

ThyFVPTC_N7.0098612919.BEAD_STDERR a numeric vector

ThyHC_T7.0098612921.AVG_Beta a numeric vector

ThyHC_T7.0098612921.Signal.CY3 a numeric vector

ThyHC_T7.0098612921.Signal.CY5 a numeric vector

ThyHC_T7.0098612921.Avg_NBEADS a numeric vector

ThyHC_T7.0098612921.BEAD_STDERR a numeric vector

ThyPTC_T7.0098612922.AVG_Beta a numeric vector

ThyPTC_T7.0098612922.Signal.CY3 a numeric vector

ThyPTC_T7.0098612922.Signal.CY5 a numeric vector

ThyPTC_T7.0098612922.Avg_NBEADS a numeric vector

ThyPTC_T7.0098612922.BEAD_STDERR a numeric vector

ThyHC_T8.0098612917.AVG_Beta a numeric vector

ThyHC_T8.0098612917.Signal.CY3 a numeric vector

ThyHC_T8.0098612917.Signal.CY5 a numeric vector

ThyHC_T8.0098612917.Avg_NBEADS a numeric vector

ThyHC_T8.0098612917.BEAD_STDERR a numeric vector

ThyPTC_T8.0098612916.AVG_Beta a numeric vector

ThyPTC_T8.0098612916.Signal.CY3 a numeric vector

ThyPTC_T8.0098612916.Signal.CY5 a numeric vector

ThyPTC_T8.0098612916.Avg_NBEADS a numeric vector

ThyPTC_T8.0098612916.BEAD_STDERR a numeric vector

ThyPTC_N8.0098612915.AVG_Beta a numeric vector

ThyPTC_N8.0098612915.Signal.CY3 a numeric vector

ThyPTC_N8.0098612915.Signal.CY5 a numeric vector

ThyPTC_N8.0098612915.Avg_NBEADS a numeric vector

ThyPTC_N8.0098612915.BEAD_STDERR a numeric vector

ThyPTC_T9.0098612896.AVG_Beta a numeric vector
ThyPTC_T9.0098612896.Signal.CY3 a numeric vector
ThyPTC_T9.0098612896.Signal.CY5 a numeric vector
ThyPTC_T9.0098612896.Avg_NBEADS a numeric vector
ThyPTC_T9.0098612896.BEAD_STDERR a numeric vector
ThyPTC_N9.0098612897.AVG_Beta a numeric vector
ThyPTC_N9.0098612897.Signal.CY3 a numeric vector
ThyPTC_N9.0098612897.Signal.CY5 a numeric vector
ThyPTC_N9.0098612897.Avg_NBEADS a numeric vector
ThyPTC_N9.0098612897.BEAD_STDERR a numeric vector
Adenoma_T10.0098612898.AVG_Beta a numeric vector
Adenoma_T10.0098612898.Signal.CY3 a numeric vector
Adenoma_T10.0098612898.Signal.CY5 a numeric vector
Adenoma_T10.0098612898.Avg_NBEADS a numeric vector
Adenoma_T10.0098612898.BEAD_STDERR a numeric vector
ThyPTC_N10.0098612894.AVG_Beta a numeric vector
ThyPTC_N10.0098612894.Signal.CY3 a numeric vector
ThyPTC_N10.0098612894.Signal.CY5 a numeric vector
ThyPTC_N10.0098612894.Avg_NBEADS a numeric vector
ThyPTC_N10.0098612894.BEAD_STDERR a numeric vector
Adenoma_T11.0098612893.AVG_Beta a numeric vector
Adenoma_T11.0098612893.Signal.CY3 a numeric vector
Adenoma_T11.0098612893.Signal.CY5 a numeric vector
Adenoma_T11.0098612893.Avg_NBEADS a numeric vector
Adenoma_T11.0098612893.BEAD_STDERR a numeric vector
Adenoma_T12.0098612892.AVG_Beta a numeric vector
Adenoma_T12.0098612892.Signal.CY3 a numeric vector
Adenoma_T12.0098612892.Signal.CY5 a numeric vector
Adenoma_T12.0098612892.Avg_NBEADS a numeric vector
Adenoma_T12.0098612892.BEAD_STDERR a numeric vector
Adenoma_T13.0098612891.AVG_Beta a numeric vector
Adenoma_T13.0098612891.Signal.CY3 a numeric vector
Adenoma_T13.0098612891.Signal.CY5 a numeric vector
Adenoma_T13.0098612891.Avg_NBEADS a numeric vector
Adenoma_T13.0098612891.BEAD_STDERR a numeric vector
Breast_N28.0098612871.AVG_Beta a numeric vector
Breast_N28.0098612871.Signal.CY3 a numeric vector

Breast_N28.0098612871.Signal.CY5 a numeric vector

Breast_N28.0098612871.Avg_NBEADS a numeric vector

Breast_N28.0098612871.BEAD_STDERR a numeric vector

Breast_N29.0098612873.AVG_Beta a numeric vector

Breast_N29.0098612873.Signal.CY3 a numeric vector

Breast_N29.0098612873.Signal.CY5 a numeric vector

Breast_N29.0098612873.Avg_NBEADS a numeric vector

Breast_N29.0098612873.BEAD_STDERR a numeric vector

Breast_T30.0098612874.AVG_Beta a numeric vector

Breast_T30.0098612874.Signal.CY3 a numeric vector

Breast_T30.0098612874.Signal.CY5 a numeric vector

Breast_T30.0098612874.Avg_NBEADS a numeric vector

Breast_T30.0098612874.BEAD_STDERR a numeric vector

ThyFVPTC_N1.0098611326.AVG_Beta a numeric vector

ThyFVPTC_N1.0098611326.Signal.CY3 a numeric vector

ThyFVPTC_N1.0098611326.Signal.CY5 a numeric vector

ThyFVPTC_N1.0098611326.Avg_NBEADS a numeric vector

ThyFVPTC_N1.0098611326.BEAD_STDERR a numeric vector

ThyHC_T1.0098611324.AVG_Beta a numeric vector

ThyHC_T1.0098611324.Signal.CY3 a numeric vector

ThyHC_T1.0098611324.Signal.CY5 a numeric vector

ThyHC_T1.0098611324.Avg_NBEADS a numeric vector

ThyHC_T1.0098611324.BEAD_STDERR a numeric vector

ThyPTC_T1.0098611323.AVG_Beta a numeric vector

ThyPTC_T1.0098611323.Signal.CY3 a numeric vector

ThyPTC_T1.0098611323.Signal.CY5 a numeric vector

ThyPTC_T1.0098611323.Avg_NBEADS a numeric vector

ThyPTC_T1.0098611323.BEAD_STDERR a numeric vector

ThyHC_T6.0098611320.AVG_Beta a numeric vector

ThyHC_T6.0098611320.Signal.CY3 a numeric vector

ThyHC_T6.0098611320.Signal.CY5 a numeric vector

ThyHC_T6.0098611320.Avg_NBEADS a numeric vector

ThyHC_T6.0098611320.BEAD_STDERR a numeric vector

ThyFVPTC_N2.0098611302.AVG_Beta a numeric vector

ThyFVPTC_N2.0098611302.Signal.CY3 a numeric vector

ThyFVPTC_N2.0098611302.Signal.CY5 a numeric vector

ThyFVPTC_N2.0098611302.Avg_NBEADS a numeric vector

ThyFVPTC_N2.0098611302.BEAD_STDERR a numeric vector

ThyHC_T2.0098611299.AVG_Beta a numeric vector

ThyHC_T2.0098611299.Signal.CY3 a numeric vector

ThyHC_T2.0098611299.Signal.CY5 a numeric vector

ThyHC_T2.0098611299.Avg_NBEADS a numeric vector

ThyHC_T2.0098611299.BEAD_STDERR a numeric vector

Adenoma_T3.0098611298.AVG_Beta a numeric vector

Adenoma_T3.0098611298.Signal.CY3 a numeric vector

Adenoma_T3.0098611298.Signal.CY5 a numeric vector

Adenoma_T3.0098611298.Avg_NBEADS a numeric vector

Adenoma_T3.0098611298.BEAD_STDERR a numeric vector

ThyFVPTC_N3.0098609742.AVG_Beta a numeric vector

ThyFVPTC_N3.0098609742.Signal.CY3 a numeric vector

ThyFVPTC_N3.0098609742.Signal.CY5 a numeric vector

ThyFVPTC_N3.0098609742.Avg_NBEADS a numeric vector

ThyFVPTC_N3.0098609742.BEAD_STDERR a numeric vector

ThyHC_T3.0098611276.AVG_Beta a numeric vector

ThyHC_T3.0098611276.Signal.CY3 a numeric vector

ThyHC_T3.0098611276.Signal.CY5 a numeric vector

ThyHC_T3.0098611276.Avg_NBEADS a numeric vector

ThyHC_T3.0098611276.BEAD_STDERR a numeric vector

ThyPTC_T3.0098611275.AVG_Beta a numeric vector

ThyPTC_T3.0098611275.Signal.CY3 a numeric vector

ThyPTC_T3.0098611275.Signal.CY5 a numeric vector

ThyPTC_T3.0098611275.Avg_NBEADS a numeric vector

ThyPTC_T3.0098611275.BEAD_STDERR a numeric vector

Adenoma_T4.0098611272.AVG_Beta a numeric vector

Adenoma_T4.0098611272.Signal.CY3 a numeric vector

Adenoma_T4.0098611272.Signal.CY5 a numeric vector

Adenoma_T4.0098611272.Avg_NBEADS a numeric vector

Adenoma_T4.0098611272.BEAD_STDERR a numeric vector

DCIS_N4.0098611274.AVG_Beta a numeric vector

DCIS_N4.0098611274.Signal.CY3 a numeric vector

DCIS_N4.0098611274.Signal.CY5 a numeric vector

DCIS_N4.0098611274.Avg_NBEADS a numeric vector

DCIS_N4.0098611274.BEAD_STDERR a numeric vector

ThyHC_T4.0098611254.AVG_Beta a numeric vector

ThyHC_T4.0098611254.Signal.CY3 a numeric vector

ThyHC_T4.0098611254.Signal.CY5 a numeric vector

ThyHC_T4.0098611254.Avg_NBEADS a numeric vector

ThyHC_T4.0098611254.BEAD_STDERR a numeric vector

ThyPTC_T4.0098611253.AVG_Beta a numeric vector

ThyPTC_T4.0098611253.Signal.CY3 a numeric vector

ThyPTC_T4.0098611253.Signal.CY5 a numeric vector

ThyPTC_T4.0098611253.Avg_NBEADS a numeric vector

ThyPTC_T4.0098611253.BEAD_STDERR a numeric vector

ThyPTC_N4.0098611252.AVG_Beta a numeric vector

ThyPTC_N4.0098611252.Signal.CY3 a numeric vector

ThyPTC_N4.0098611252.Signal.CY5 a numeric vector

ThyPTC_N4.0098611252.Avg_NBEADS a numeric vector

ThyPTC_N4.0098611252.BEAD_STDERR a numeric vector

DCIS_N5.0098611247.AVG_Beta a numeric vector

DCIS_N5.0098611247.Signal.CY3 a numeric vector

DCIS_N5.0098611247.Signal.CY5 a numeric vector

DCIS_N5.0098611247.Avg_NBEADS a numeric vector

DCIS_N5.0098611247.BEAD_STDERR a numeric vector

ThyFA_N5.0098609744.AVG_Beta a numeric vector

ThyFA_N5.0098609744.Signal.CY3 a numeric vector

ThyFA_N5.0098609744.Signal.CY5 a numeric vector

ThyFA_N5.0098609744.Avg_NBEADS a numeric vector

ThyFA_N5.0098609744.BEAD_STDERR a numeric vector

References

Hansen KD, et al. (2011) Increased methylation variation in epigenetic domains across cancer types. Nat Genet 43(8):768-775

Examples

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data(Methylation)
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