Package: CPSM (via r-universe)

November 2, 2026

Type Package

Title CPSM: Cancer patient survival model

Version 1.4.0

Description CPSM provides a comprehensive computational pipeline for predicting survival probability and risk groups in cancer patients. The package includes steps for data preprocessing, training/test split, and normalization. It enables feature selection using univariate survival analysis and computes a LASSO-based prognostic index (PI) score. CPSM supports the development of predictive models using various feature sets and offers a suite of visualization tools, including survival curves based on predicted probabilities, barplots for predicted mean and median survival times, KM plots overlaid with individual survival predictions, and nomograms for estimating 1-, 3-, 5-, and 10-year survival probabilities. This makes CPSM a versatile tool for survival analysis in cancer research.

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Encoding UTF-8

Depends R (>= 4.5)

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Imports SummarizedExperiment, grDevices, reshape2 , survival , survminer , ggplot2 , MTLR , glmnet , rms , preprocessCore , Matrix , stats, Hmisc, ggfortify, randomForestSRC, caret, SurvMetrics, MASS,

Suggests knitr, rmarkdown, testthat (>= 3.0.0), BiocStyle

URL https://github.com/hks5august/CPSM/

BugReports https://github.com/hks5august/CPSM/issues

VignetteBuilder knitr

Config/testthat/edition 3

biocViews Normalization, Survival, GeneExpression, Preprocessing,FeatureExtraction, Software, Visualization

Config/pak/sysreqs cmake libglpk-dev make libicu-dev libjpeg-dev libpng-dev libuv1-dev libxml2-dev libssl-dev libx11-dev zlib1g-dev

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`data_process_f` *Data Processing function*

Description

This function converting OS time (in days) into months and removing samples where OS time information is missing. Note: In the Example data OS time labelled is "OS.time" and OS event labelled as "OS"

Arguments

`data`	A data frame containing clinical and expression data.
`col_num`	An integer indicating the column number where expression data starts.
`surv_time`	A character string specifying the name of the survival time column in the data.

Value

A data frame combining processed clinical and expression data. Includes a new column `OS_month` for survival time in months, and retains only rows with positive `OS_month`.

Examples

```
library(SummarizedExperiment)
data(Example_TCGA_LGG_FPKM_data, package = "CPSM")
combined_df <- cbind(as.data.frame(colData(Example_TCGA_LGG_FPKM_data))
[, -ncol(colData(Example_TCGA_LGG_FPKM_data))],
t(as.data.frame(assay(Example_TCGA_LGG_FPKM_data, "expression"))))
data_process_f(data = combined_df,
  col_num = 20, surv_time = "OS.time"
)
```

`Example_TCGA_LGG_FPKM_data`
Example TCGA LGG FPKM data

Description

This is a data set used for the package example.

Usage

```
data("Example_TCGA_LGG_FPKM_data")
```

Format

A data frame with 184 observations on the following 2024 variables.

`Age` a numeric vector

`subtype` a character vector

`gender` a character vector

`race` a character vector

`ajcc_pathologic_tumor_stage` a logical vector

`histological_type` a character vector

`histological_grade` a character vector

`treatment_outcome_first_course` a character vector

`radiation_treatment_adjuvant` a character vector

`sample_type` a character vector

`type` a character vector

`OS` a numeric vector

`OS.time` a numeric vector

`DSS` a numeric vector

`DSS.time` a numeric vector

`DFI` a numeric vector

`DFI.time` a numeric vector

`PFI` a numeric vector

`PFI.time` a numeric vector

`A1BG` a numeric vector

`A1CF` a numeric vector

`A2M` a numeric vector

`A2ML1` a numeric vector

`A3GALT2` a numeric vector

`A4GALT` a numeric vector

`A4GNT` a numeric vector

`AAAS` a numeric vector

`AACS` a numeric vector

`AADAC` a numeric vector

`AADACL2` a numeric vector

`AADACL3` a numeric vector

`AADACL4` a numeric vector

`AADAT` a numeric vector

`AAGAB` a numeric vector

`AAK1` a numeric vector

AAMDC a numeric vector

AAMP a numeric vector

AANAT a numeric vector

AAR2 a numeric vector

AARD a numeric vector

AARS1 a numeric vector

AARS2 a numeric vector

AARSD1 a numeric vector

AASDH a numeric vector

AASDHPPT a numeric vector

AASS a numeric vector

AATF a numeric vector

AATK a numeric vector

ABAT a numeric vector

ABCA1 a numeric vector

ABCA10 a numeric vector

ABCA12 a numeric vector

ABCA13 a numeric vector

ABCA2 a numeric vector

ABCA3 a numeric vector

ABCA4 a numeric vector

ABCA5 a numeric vector

ABCA6 a numeric vector

ABCA7 a numeric vector

ABCA8 a numeric vector

ABCA9 a numeric vector

ABCB1 a numeric vector

ABCB10 a numeric vector

ABCB11 a numeric vector

ABCB4 a numeric vector

ABCB5 a numeric vector

ABCB6 a numeric vector

ABCB7 a numeric vector

ABCB8 a numeric vector

ABCB9 a numeric vector

ABCC1 a numeric vector

ABCC10 a numeric vector

ABCC11 a numeric vector

ABCC12 a numeric vector

ABCC2 a numeric vector

ABCC3 a numeric vector

ABCC4 a numeric vector

ABCC5 a numeric vector

ABCC6 a numeric vector

ABCC8 a numeric vector

ABCC9 a numeric vector

ABCD1 a numeric vector

ABCD2 a numeric vector

ABCD3 a numeric vector

ABCD4 a numeric vector

ABCE1 a numeric vector

ABCF1 a numeric vector

ABCF2 a numeric vector

'ABCF2-H2BE1' a numeric vector

ABCF3 a numeric vector

ABCG1 a numeric vector

ABCG2 a numeric vector

ABCG4 a numeric vector

ABCG5 a numeric vector

ABCG8 a numeric vector

ABHD1 a numeric vector

ABHD10 a numeric vector

ABHD11 a numeric vector

ABHD12 a numeric vector

ABHD12B a numeric vector

ABHD13 a numeric vector

ABHD14A a numeric vector

'ABHD14A-ACY1' a numeric vector

ABHD14B a numeric vector

ABHD15 a numeric vector

ABHD16A a numeric vector

ABHD16B a numeric vector

ABHD17A a numeric vector

ABHD17B a numeric vector

ABHD17C a numeric vector

ABHD18 a numeric vector

ABHD2 a numeric vector

ABHD3 a numeric vector

ABHD4 a numeric vector

ABHD5 a numeric vector

ABHD6 a numeric vector

ABHD8 a numeric vector

ABI1 a numeric vector

ABI2 a numeric vector

ABI3 a numeric vector

ABI3BP a numeric vector

ABITRAM a numeric vector

ABL1 a numeric vector

ABL2 a numeric vector

ABLIM1 a numeric vector

ABLIM2 a numeric vector

ABLIM3 a numeric vector

ABO a numeric vector

ABR a numeric vector

ABRA a numeric vector

ABRACL a numeric vector

ABRAXAS1 a numeric vector

ABRAXAS2 a numeric vector

ABT1 a numeric vector

ABTB1 a numeric vector

ABTB2 a numeric vector

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AC000120.2 a numeric vector

AC000120.3 a numeric vector

AC001226.2 a numeric vector

AC002094.3 a numeric vector

AC002310.4 a numeric vector

AC002456.2 a numeric vector

AC002985.1 a numeric vector

AC002996.1 a numeric vector

AC003002.1 a numeric vector

AC003002.2 a numeric vector

AC003002.3 a numeric vector

AC003005.1 a numeric vector

AC003006.1 a numeric vector

AC003688.1 a numeric vector

AC004076.1 a numeric vector

AC004080.3 a numeric vector

AC004223.3 a numeric vector

AC004233.4 a numeric vector

AC004593.2 a numeric vector

AC004687.2 a numeric vector

AC004691.2 a numeric vector

AC004706.3 a numeric vector

AC004805.1 a numeric vector

AC004832.3 a numeric vector

AC004922.1 a numeric vector

AC004997.1 a numeric vector

AC005020.2 a numeric vector

AC005041.1 a numeric vector

AC005154.5 a numeric vector

AC005192.1 a numeric vector

AC005258.1 a numeric vector

AC005324.2 a numeric vector

AC005324.3 a numeric vector

AC005520.1 a numeric vector

AC005551.1 a numeric vector

AC005670.2 a numeric vector

AC005697.1 a numeric vector

AC005702.1 a numeric vector

AC005726.1 a numeric vector

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AC008695.1 a numeric vector
AC008750.7 a numeric vector
AC008758.1 a numeric vector
AC008758.5 a numeric vector
AC008758.6 a numeric vector
AC008763.2 a numeric vector
AC008763.3 a numeric vector
AC008763.4 a numeric vector
AC008764.1 a numeric vector
AC008764.4 a numeric vector

AC008770.1 a numeric vector
AC008770.2 a numeric vector
AC008770.4 a numeric vector
AC008878.1 a numeric vector
AC008878.2 a numeric vector
AC008878.3 a numeric vector
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AC233992.2 a numeric vector
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AC236972.4 a numeric vector
AC242628.1 a numeric vector
AC242842.3 a numeric vector
AC243547.3 a numeric vector
AC243967.1 a numeric vector
AC244197.3 a numeric vector
AC244517.10 a numeric vector
AC245033.1 a numeric vector
AC245748.1 a numeric vector

AC253536.7 a numeric vector

ACAA1 a numeric vector

ACAA2 a numeric vector

ACACA a numeric vector

ACACB a numeric vector

ACAD10 a numeric vector

ACAD11 a numeric vector

ACAD8 a numeric vector

ACAD9 a numeric vector

ACADL a numeric vector

ACADM a numeric vector

ACADS a numeric vector

ACADSB a numeric vector

ACADVL a numeric vector

ACAN a numeric vector

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ACAP2 a numeric vector

ACAP3 a numeric vector

ACAT1 a numeric vector

ACAT2 a numeric vector

ACBD3 a numeric vector

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ACBD6 a numeric vector

ACBD7 a numeric vector

ACCS a numeric vector

ACCSL a numeric vector

ACD a numeric vector

ACE a numeric vector

ACE2 a numeric vector

ACER1 a numeric vector

ACER2 a numeric vector

ACER3 a numeric vector

ACHE a numeric vector

ACIN1 a numeric vector

ACKR1 a numeric vector

ACKR2 a numeric vector

ACKR3 a numeric vector

ACKR4 a numeric vector

ACLY a numeric vector

ACMSD a numeric vector

ACO1 a numeric vector

ACO2 a numeric vector

ACOD1 a numeric vector

ACOT1 a numeric vector

ACOT11 a numeric vector

ACOT12 a numeric vector

ACOT13 a numeric vector

ACOT2 a numeric vector

ACOT4 a numeric vector

ACOT6 a numeric vector

ACOT7 a numeric vector

ACOT8 a numeric vector

ACOT9 a numeric vector

ACOX1 a numeric vector

ACOX2 a numeric vector

ACOX3 a numeric vector

ACOXL a numeric vector

ACP1 a numeric vector

ACP2 a numeric vector

ACP3 a numeric vector

ACP4 a numeric vector

ACP5 a numeric vector

ACP6 a numeric vector

ACP7 a numeric vector

ACR a numeric vector

ACRBP a numeric vector

ACRV1 a numeric vector

ACSBG1 a numeric vector

ACSBG2 a numeric vector

ACSF2 a numeric vector

ACSF3 a numeric vector

ACSL1 a numeric vector

ACSL3 a numeric vector

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ACSL6 a numeric vector

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ACSM2B a numeric vector

ACSM3 a numeric vector

ACSM4 a numeric vector

ACSM5 a numeric vector

ACSM6 a numeric vector

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ACSS2 a numeric vector

ACSS3 a numeric vector

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ACTA2 a numeric vector

ACTB a numeric vector

ACTBL2 a numeric vector

ACTC1 a numeric vector

ACTG1 a numeric vector

ACTG2 a numeric vector

ACTL10 a numeric vector

ACTL6A a numeric vector

ACTL6B a numeric vector

ACTL7A a numeric vector

ACTL7B a numeric vector

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ACTL9 a numeric vector

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ACTN2 a numeric vector

ACTN3 a numeric vector

ACTN4 a numeric vector

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ACTR1A a numeric vector

ACTR1B a numeric vector

ACTR2 a numeric vector

ACTR3 a numeric vector

ACTR3B a numeric vector

ACTR3C a numeric vector

ACTR5 a numeric vector

ACTR6 a numeric vector

ACTR8 a numeric vector

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ACTRT3 a numeric vector

ACVR1 a numeric vector

ACVR1B a numeric vector

ACVR1C a numeric vector

ACVR2A a numeric vector

ACVR2B a numeric vector

ACVRL1 a numeric vector

ACY1 a numeric vector

ACY3 a numeric vector

ACYP1 a numeric vector

ACYP2 a numeric vector

AD000671.1 a numeric vector

AD000671.2 a numeric vector

ADA a numeric vector

ADA2 a numeric vector

ADAD1 a numeric vector

ADAD2 a numeric vector

ADAL a numeric vector

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ADAT3 a numeric vector

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ADCK2 a numeric vector

ADCK5 a numeric vector

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ARMC7 a numeric vector

ARMC8 a numeric vector

ARMC9 a numeric vector

ARMCX1 a numeric vector

ARMCX2 a numeric vector

ARMCX3 a numeric vector

ARMCX4 a numeric vector

ARMCX5 a numeric vector

'ARMCX5-GPRASP2' a numeric vector

ARMCX6 a numeric vector

ARMH1 a numeric vector

ARMH2 a numeric vector

ARMH3 a numeric vector

ARMH4 a numeric vector

ARMS2 a numeric vector

ARMT1 a numeric vector

ARNT a numeric vector

ARNT2 a numeric vector

ARNTL a numeric vector

ARNTL2 a numeric vector

ARPC1A a numeric vector

ARPC1B a numeric vector

ARPC2 a numeric vector

ARPC3 a numeric vector

ARPC4 a numeric vector

'ARPC4-TTLL3' a numeric vector

ARPC5 a numeric vector

ARPC5L a numeric vector

ARPIN a numeric vector

'ARPIN-AP3S2' a numeric vector

ARPP19 a numeric vector

ARPP21 a numeric vector

ARR3 a numeric vector

ARRB1 a numeric vector

ARRB2 a numeric vector

ARRDC1 a numeric vector

ARRDC2 a numeric vector

ARRDC3 a numeric vector

ARRDC4 a numeric vector

ARRDC5 a numeric vector

ARSA a numeric vector

ARSB a numeric vector

ARSD a numeric vector

ARSF a numeric vector

ARSG a numeric vector

ARSH a numeric vector

ARSI a numeric vector

ARSJ a numeric vector

ARSK a numeric vector

ARSL a numeric vector

ART1 a numeric vector

ART3 a numeric vector

ART4 a numeric vector

ART5 a numeric vector

ARTN a numeric vector

ARV1 a numeric vector

ARVCF a numeric vector

ARX a numeric vector

AS3MT a numeric vector

ASAH1 a numeric vector

ASAH2 a numeric vector

ASAH2B a numeric vector

ASAP1 a numeric vector

ASAP2 a numeric vector

ASAP3 a numeric vector

ASB1 a numeric vector

ASB10 a numeric vector

ASB11 a numeric vector

ASB12 a numeric vector

ASB13 a numeric vector
ASB14 a numeric vector
ASB15 a numeric vector
ASB16 a numeric vector
ASB17 a numeric vector
ASB18 a numeric vector
ASB2 a numeric vector
ASB3 a numeric vector
ASB4 a numeric vector
ASB5 a numeric vector
ASB6 a numeric vector
ASB7 a numeric vector
ASB8 a numeric vector
ASB9 a numeric vector
ASCC1 a numeric vector
ASCC2 a numeric vector
ASCC3 a numeric vector
ASCL1 a numeric vector
ASCL2 a numeric vector
ASCL3 a numeric vector
ASCL4 a numeric vector
ASCL5 a numeric vector
ASDURF a numeric vector
ASF1A a numeric vector
ASF1B a numeric vector
ASGR1 a numeric vector
ASGR2 a numeric vector
ASH1L a numeric vector
ASH2L a numeric vector
ASIC1 a numeric vector
ASIC2 a numeric vector
ASIC3 a numeric vector
ASIC4 a numeric vector
ASIC5 a numeric vector
ASIP a numeric vector
ASL a numeric vector
ASMT a numeric vector

ASMTL a numeric vector

ASNS a numeric vector

ASNSD1 a numeric vector

ASPA a numeric vector

ASPDH a numeric vector

ASPG a numeric vector

ASPH a numeric vector

ASPHD1 a numeric vector

ASPHD2 a numeric vector

ASPM a numeric vector

ASPN a numeric vector

ASPRV1 a numeric vector

ASPSCR1 a numeric vector

ASRGL1 a numeric vector

ASS1 a numeric vector

ASTE1 a numeric vector

ASTL a numeric vector

ASTN1 a numeric vector

ASTN2 a numeric vector

ASXL1 a numeric vector

ASXL2 a numeric vector

ASXL3 a numeric vector

ASZ1 a numeric vector

ATAD1 a numeric vector

ATAD2 a numeric vector

ATAD2B a numeric vector

ATAD3A a numeric vector

ATAD3B a numeric vector

ATAD3C a numeric vector

ATAD5 a numeric vector

ATAT1 a numeric vector

ATCAY a numeric vector

ATE1 a numeric vector

ATF1 a numeric vector

ATF2 a numeric vector

ATF3 a numeric vector

ATF4 a numeric vector

ATF5 a numeric vector

ATF6 a numeric vector

ATF6B a numeric vector

ATF7 a numeric vector

'ATF7-NPFF' a numeric vector

ATF7IP a numeric vector

ATF7IP2 a numeric vector

ATG10 a numeric vector

ATG101 a numeric vector

ATG12 a numeric vector

ATG13 a numeric vector

ATG14 a numeric vector

ATG16L1 a numeric vector

ATG16L2 a numeric vector

ATG2A a numeric vector

ATG2B a numeric vector

ATG3 a numeric vector

ATG4A a numeric vector

ATG4B a numeric vector

ATG4C a numeric vector

ATG4D a numeric vector

ATG5 a numeric vector

ATG7 a numeric vector

ATG9A a numeric vector

ATG9B a numeric vector

ATIC a numeric vector

ATL1 a numeric vector

ATL2 a numeric vector

ATL3 a numeric vector

ATM a numeric vector

ATMIN a numeric vector

ATN1 a numeric vector

ATOH1 a numeric vector

ATOH7 a numeric vector

ATOH8 a numeric vector

ATOX1 a numeric vector

ATP10A a numeric vector

ATP10B a numeric vector

ATP10D a numeric vector

ATP11A a numeric vector

ATP11B a numeric vector

ATP11C a numeric vector

ATP12A a numeric vector

ATP13A1 a numeric vector

ATP13A2 a numeric vector

ATP13A3 a numeric vector

ATP13A4 a numeric vector

ATP13A5 a numeric vector

ATP1A1 a numeric vector

ATP1A2 a numeric vector

ATP1A3 a numeric vector

ATP1A4 a numeric vector

ATP1B1 a numeric vector

ATP1B2 a numeric vector

ATP1B3 a numeric vector

ATP1B4 a numeric vector

ATP23 a numeric vector

ATP2A1 a numeric vector

ATP2A2 a numeric vector

ATP2A3 a numeric vector

ATP2B1 a numeric vector

ATP2B2 a numeric vector

ATP2B3 a numeric vector

ATP2B4 a numeric vector

ATP2C1 a numeric vector

ATP2C2 a numeric vector

ATP4A a numeric vector

ATP4B a numeric vector

ATP5F1A a numeric vector

ATP5F1B a numeric vector

ATP5F1C a numeric vector

ATP5F1D a numeric vector

ATP5F1E a numeric vector

ATP5IF1 a numeric vector

ATP5MC1 a numeric vector

ATP5MC2 a numeric vector

ATP5MC3 a numeric vector

ATP5MD a numeric vector

ATP5ME a numeric vector

ATP5MF a numeric vector

'ATP5MF-PTCD1' a numeric vector

ATP5MG a numeric vector

ATP5MGL a numeric vector

ATP5MPL a numeric vector

ATP5PB a numeric vector

ATP5PD a numeric vector

ATP5PF a numeric vector

ATP5PO a numeric vector

ATP6AP1 a numeric vector

ATP6AP1L a numeric vector

ATP6AP2 a numeric vector

ATP6V0A1 a numeric vector

ATP6V0A2 a numeric vector

ATP6V0A4 a numeric vector

ATP6V0B a numeric vector

ATP6V0C a numeric vector

ATP6V0D1 a numeric vector

ATP6V0D2 a numeric vector

ATP6V0E1 a numeric vector

ATP6V0E2 a numeric vector

ATP6V1A a numeric vector

ATP6V1B1 a numeric vector

ATP6V1B2 a numeric vector

ATP6V1C1 a numeric vector

ATP6V1C2 a numeric vector

ATP6V1D a numeric vector

ATP6V1E1 a numeric vector

ATP6V1E2 a numeric vector

ATP6V1F a numeric vector

ATP6V1FNB a numeric vector

ATP6V1G1 a numeric vector

ATP6V1G2 a numeric vector

'ATP6V1G2-DDX39B' a numeric vector

ATP6V1G3 a numeric vector

ATP6V1H a numeric vector

ATP7A a numeric vector

ATP7B a numeric vector

ATP8A1 a numeric vector

ATP8A2 a numeric vector

ATP8B1 a numeric vector

ATP8B2 a numeric vector

ATP8B3 a numeric vector

ATP8B4 a numeric vector

ATP9A a numeric vector

ATP9B a numeric vector

ATPAF1 a numeric vector

ATPAF2 a numeric vector

ATPSCKMT a numeric vector

ATR a numeric vector

ATRAID a numeric vector

ATRIP a numeric vector

ATRN a numeric vector

ATRNL1 a numeric vector

ATRX a numeric vector

ATXN1 a numeric vector

ATXN10 a numeric vector

ATXN1L a numeric vector

ATXN2 a numeric vector

ATXN2L a numeric vector

ATXN3 a numeric vector

ATXN3L a numeric vector

ATXN7 a numeric vector

ATXN7L1 a numeric vector

ATXN7L2 a numeric vector

ATXN7L3 a numeric vector

ATXN7L3B a numeric vector

AUH a numeric vector

AUNIP a numeric vector

AUP1 a numeric vector

AURKA a numeric vector

AURKAIP1 a numeric vector

AURKB a numeric vector

AURKC a numeric vector

AUTS2 a numeric vector

AVEN a numeric vector

AVIL a numeric vector

AVL9 a numeric vector

AVP a numeric vector

AVPI1 a numeric vector

AVPR1A a numeric vector

AVPR1B a numeric vector

AVPR2 a numeric vector

AWAT1 a numeric vector

AWAT2 a numeric vector

AXDND1 a numeric vector

AXIN1 a numeric vector

AXIN2 a numeric vector

AXL a numeric vector

AZGP1 a numeric vector

AZI2 a numeric vector

AZIN1 a numeric vector

AZIN2 a numeric vector

AZU1 a numeric vector

B2M a numeric vector

B3GALNT1 a numeric vector

B3GALNT2 a numeric vector

B3GALT1 a numeric vector

B3GALT2 a numeric vector

B3GALT4 a numeric vector

B3GALT5 a numeric vector

B3GALT6 a numeric vector

B3GAT1 a numeric vector

B3GAT2 a numeric vector

B3GAT3 a numeric vector

B3GLCT a numeric vector

B3GNT10 a numeric vector

B3GNT2 a numeric vector

B3GNT3 a numeric vector

B3GNT4 a numeric vector

B3GNT5 a numeric vector

B3GNT6 a numeric vector

B3GNT7 a numeric vector

B3GNT8 a numeric vector

B3GNT9 a numeric vector

B3GNTL1 a numeric vector

B4GALNT1 a numeric vector

B4GALNT2 a numeric vector

B4GALNT3 a numeric vector

B4GALNT4 a numeric vector

B4GALT1 a numeric vector

B4GALT2 a numeric vector

B4GALT3 a numeric vector

B4GALT4 a numeric vector

B4GALT5 a numeric vector

B4GALT6 a numeric vector

B4GALT7 a numeric vector

B4GAT1 a numeric vector

B9D1 a numeric vector

B9D2 a numeric vector

BAALC a numeric vector

BAAT a numeric vector

BABAM1 a numeric vector

BABAM2 a numeric vector

BACE1 a numeric vector

BACE2 a numeric vector

BACH1 a numeric vector

BACH2 a numeric vector

BAD a numeric vector

BAG1 a numeric vector

BAG2 a numeric vector

BAG3 a numeric vector

BAG4 a numeric vector

BAG5 a numeric vector

BAG6 a numeric vector

BAHCC1 a numeric vector

BAHD1 a numeric vector

BAIAP2 a numeric vector

BAIAP2L1 a numeric vector

BAIAP2L2 a numeric vector

BAIAP3 a numeric vector

BAK1 a numeric vector

BAMBI a numeric vector

BANF1 a numeric vector

BANF2 a numeric vector

BANK1 a numeric vector

BANP a numeric vector

BAP1 a numeric vector

BARD1 a numeric vector

BARHL1 a numeric vector

BARHL2 a numeric vector

BARX1 a numeric vector

BARX2 a numeric vector

BASP1 a numeric vector

BATF a numeric vector

BATF2 a numeric vector

BATF3 a numeric vector

BAX a numeric vector

BAZ1A a numeric vector

BAZ1B a numeric vector

BAZ2A a numeric vector

Details

This is a GBM dataset.

Value

Returns a data frame and a plot.

Source

https://portal.gdc.cancer.gov/

References

Das P, Roychowdhury A, Das S, Roychoudhury S, Tripathy S (2020). "sigFeature: Novel Significant Feature Selection Method for Classification of Gene Expression Data Using Support Vector Machine and t Statistic." Frontiers in genetics, 11, 247. doi:10.3389/fgene.2020.00247, https://www.frontiersin.org/article/10

Examples

```
data(Example_TCGA_LGG_FPKM_data)
## maybe str(Example_TCGA_LGG_FPKM_data) ; plot(Example_TCGA_LGG_FPKM_data)
```

---

feature_list_for_Nomogram

feature list for Nomogram

Description

This is feature list for Nomogram.

Usage

```
data("feature_list_for_Nomogram")
```

Format

A data frame with 6 observations on the following variable.

`ID` a character vector

Details

This is feature list for Nomogram.

Value

Returns a plot.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(feature_list_for_Nomogram)
## maybe str(feature_list_for_Nomogram)
## plot(feature_list_for_Nomogram)
```

Key_Clin_feature_list *Key Clin feature list*

Description

This is Key Clin feature list.

Usage

```
data("Key_Clin_feature_list")
```

Format

A data frame with 8 observations on the following variable.

`ID` a character vector

Details

This is Key Clin feature list.

Value

Returns a feature list.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Key_Clin_feature_list)
## maybe str(Key_Clin_feature_list)
```

Key_Clin_features_with_PI_list *Key Clin features with PI list*

Description

This is Key Clin features with PI list.

Usage

```
data("Key_Clin_features_with_PI_list")
```

Format

A data frame with 9 observations on the following variable.

`ID` a character vector

Details

This is Key Clin features with PI list.

Value

Returns a feature list.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Key_Clin_features_with_PI_list)
## maybe str(Key_Clin_features_with_PI_list)
```

`Key_PI_list` *Key PI list*

Description

This is Key PI list.

Usage

```
data("Key_PI_list")
```

Format

A data frame with 1 observations on the following variable.

`ID` a character vector

Details

This is Key PI list.

Value

Returns a feature list.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Key_PI_list)
## maybe str(Key_PI_list)
```

`Key_univariate_features_list`
Key univariate features list

Description

This is Key univariate features list.

Usage

```
data("Key_univariate_features_list")
```

Format

A data frame with 2391 observations on the following variable.

`ID` a character vector

Details

This is Key univariate features list.

Value

Returns a feature list.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Key_univariate_features_list)
## maybe str(Key_univariate_features_list)
```

Key_univariate_features_with_Clin_list *Key univariate features with Clin list*

Description

This is Key univariate features with Clin list.

Usage

```
data("Key_univariate_features_with_Clin_list")
```

Format

A data frame with 2399 observations on the following variable.

`ID` a character vector

Details

This is Key univariate features with Clin list.

Value

Returns a feature list.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Key_univariate_features_with_Clin_list)
## maybe str(Key_univariate_features_with_Clin_list)
```

km_overlay_plot_f *Overlay Kaplan-Meier Plot Function*

Description

This function generates an overlayed Kaplan-Meier (KM) survival plot to visualize the survival curves of training data stratified by predicted risk groups (e.g., High Risk vs Low Risk), along with the survival curve of a selected test sample. It helps to visually assess how the test sample's predicted survival aligns with the survival profiles of the training groups.

Arguments

`Train_results` A data frame containing the training samples' survival prediction results (obtained from RF risk prediction model). The following columns are required:

- `Sample_ID`: Unique identifier for the sample.
- `Actual`: Actual TCGA ID (often the same as `Sample_ID`).
- `Predicted_Risk_Group`: Predicted class label (e.g., `High_Risk` / `Low_Risk`).
- `High_Risk_Prob`: Probability of being classified as High Risk.
- `Low_Risk_Prob`: Probability of being classified as Low Risk.
- `Prediction_Prob`: Maximum class probability (confidence in the prediction).
- `OS_month`: Overall survival time in months.
- `OS_event`: Event indicator (`1` = death, `0` = censored). The data frame should have no duplicate `Sample_ID`s, and the `OS_month` column should be numeric while `OS_event` should be an integer.

`Test_results` A data frame containing the test samples' survival prediction results (obtained from RF risk prediction model). The structure is similar to `Train_results`, with the following columns:

- `Sample_ID`: Unique identifier for the sample.
- `Actual`: Actual TCGA ID (often the same as `Sample_ID`).
- `Predicted_Risk_Group`: Predicted class label (e.g., `High_Risk` / `Low_Risk`).
- `High_Risk_Prob`: Probability of being classified as High Risk.
- `Low_Risk_Prob`: Probability of being classified as Low Risk.
- `Prediction_Prob`: Maximum class probability (confidence in the prediction).
- `OS_month`: Overall survival time in months.
- `OS_event`: Event indicator (`1` = death, `0` = censored). The data frame should have no duplicate `Sample_ID`s, and the `OS_month` column should be numeric while `OS_event` should be an integer. The `Sample_ID` of the `selected_sample` must be present in this data frame.

`survcurve_te_data` A data frame containing survival probability curves for test samples. It should include:

- `time_point`: Time points for survival estimates.
- `<Sample_ID columns>`: Survival probabilities for each sample at each time point.

`selected_sample` The `Sample_ID` of the selected test sample for which the user wants to plot the overlayed Kaplan-Meier plot. The `Sample_ID` should be present in the `Test_results` data frame.

`font_size` Numeric. Base font size for the plot text (axis labels, legend, and title). Default is 12.

`train_palette` Character vector of colors for training group curves (e.g., c("red", "blue")). Default is c("red", "blue").

test_line_col	Character. Color of the overlaid test sample curve. Default is "darkgreen".
test_line_type	Character. Line type of the overlaid test sample curve (e.g., "dashed", "solid"). Default is "dashed".

Value

A ggplot object (from ggsurvplot) showing:

- Kaplan-Meier survival curves for the training dataset, stratified by predicted risk group.
- An overlaid survival curve for the selected test sample (in a dashed green line).
- Annotations displaying the test sample's predicted risk group and prediction probability.

Examples

```
# Example usage of the km_overlay_plot_f function

# Example Train_results data frame
# Load example data included in the package
data(Train_results, package = "CPSM")
data(Test_results, package = "CPSM")
data(survCurves_data, package = "CPSM")

# Generate Kaplan-Meier plot with overlay
KM_plot_results <- km_overlay_plot_f(
  Train_results = Train_results,
  Test_results = Test_results,
  survcurve_te_data = survCurves_data,
  selected_sample = "TCGA-TQ-A7RQ-01",
  font_size = 14,
  train_palette = c("purple", "orange"),
  test_curve_col = "black",
  test_curve_lty = "solid"
)
```

Lasso_PI_scores_f *Lasso-Based Prognostic Index Calculation*

Description

Lasso-Based Prognostic Index Calculation

Usage

```
Lasso_PI_scores_f(
  train_data,
  test_data,
  nfolds,
```

```
  col_num,
  surv_time,
  surv_event,
  n_repeats,
  alpha,
  freq_threshold = 0.6
)
```

Arguments

train_data	A data frame containing the training data, including survival time, event status, and features.
test_data	A data frame containing the test data, including survival time, event status, and features.
nfolds	An integer specifying the number of cross-validation folds for LASSO.
col_num	An integer indicating the starting column index for the feature variables.
surv_time	A character string specifying the column name for survival time in the data.
surv_event	A character string specifying the column name for survival event status in the data.
n_repeats	An integer specifying how many times repeated CV should be run to assess feature selection stability.
alpha	A numeric value (0–1) specifying the mixing parameter for Elastic Net (1 = LASSO, 0 < alpha < 1 = Elastic Net).
freq_threshold	Numeric value between 0 and 1. Minimum selection frequency required to retain a feature across repeated LASSO runs (e.g., 0.6 keeps features selected in > 60% of repeats).

Details

The function first checks the validity of input data. It renames the survival time and event columns in the training and test datasets, then fits a Cox proportional hazards model using Lasso regularization via cross-validation. Based on the Lasso model, the function calculates the prognostic index (PI) for both the training and test datasets, appending the PI values to the original data frames.

Value

A list with the following components:

- Train_Lasso_key_variables: A data frame of selected key variables and their coefficients.
- Train_PI_data: A data frame with training data, including survival time, event status, and PI.
- Test_PI_data: A data frame with test data, including survival time, event status, and PI.
- cvfit: A cv.glmnet object representing the fitted LASSO Cox model.
- Stability_table: A data frame showing each feature and the proportion of repeated CV runs in which it was selected (selection frequency).

Examples

```
data(Train_Norm_data, package = "CPSM")
data(Test_Norm_data, package = "CPSM")
Result_PI <- Lasso_PI_scores_f(
train_data = Train_Norm_data,
test_data = Test_Norm_data,
nfolds = 5,
col_num = 21,
n_repeats = 10,
alpha = 1,
freq_threshold = 0.6,
surv_time = "OS_month",
surv_event = "OS")
```

`mean_median_surv_barplot_f`

Mean and Median Survival Bar Plot

Description

This function generate barplots for mean and median survival of patients. Besides, user can also highlight one specific sample by providing sample IDs

Arguments

`surv_mean_med_data`	:args1 - Predicted Mean median survival time data for patients
`selected_sample`	:args2 - ID of the sample for which user want to highlight in the plot.
`font_size`	Numeric: Font size for axis text and labels (default = 8)
`font_color`	Character: Font color for text/labels (default = "black")
`bar_colors`	Named vector: Custom bar colors for highlighted and other patients. Defaults to: `c("TRUE.Mean" = "red", "TRUE.Median" = "blue", "FALSE.Mean" = "lightgray", "FALSE.Median" = "darkgray")`

Value

A list containing two `ggplot` objects:

- `mean_med_all_pat`: Bar plot of mean and median survival times for all patients.
- `highlighted_selected_pat`: Bar plot highlighting the selected patient's mean and median survival times with distinct colors.

Examples

```
data(mean_median_survival_time_data, package = "CPSM")
mean_median_surv_barplot_f(
  surv_mean_med_data =
    mean_median_survival_time_data,
  selected_sample = "TCGA-TQ-A7RQ-01",
  font_size = 10,
  font_color = "darkblue",
  bar_colors = c("TRUE.Mean" = "green", "TRUE.Median" = "purple",
                 "FALSE.Mean" = "lightblue", "FALSE.Median" = "gray70")
)
```

---

mean_median_survival_time_data

mean median survival time data

Description

This is mean median survival time data.

Usage

```
data("mean_median_survival_time_data")
```

Format

A data frame with 18 observations on the following 3 variables.

`IDs` a character vector

`Mean` a numeric vector

`Median` a numeric vector

Details

This is mean median survival time data.

Value

Data whch is used for plot.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(mean_median_survival_time_data)
# maybe str(mean_median_survival_time_data)
# plot(mean_median_survival_time_data)
```

`MTLR_pred_model_f` *MTLR Prediction Model Function*

Description

This function builds a Multi-Task Logistic Regression (MTLR) survival model based on clinical or selected feature or their combinations. It can handle various model types based on user input (e.g., Clinical features only, Clinical features with PI score, selected genes set).

Usage

```
MTLR_pred_model_f(
  train_clin_data,
  test_clin_data,
  Model_type,
  train_features_data,
  test_features_data,
  Clin_Feature_List,
  surv_time,
  surv_event,
  nfolds = 5
)
```

Arguments

`train_clin_data`
: A data frame containing the clinical data for the training set.

`test_clin_data`
: A data frame containing the clinical data for the test set.

`Model_type`
: An integer indicating the model type:

- 1: Clinical features model
- 2: PI score model
- 3: PI score with Clinical features model
- 4: selected gene set or clinical with selected gene set based model

`train_features_data`
: A data frame containing the feature data for the training set.

`test_features_data`
: A data frame containing the feature data for the test set.

`Clin_Feature_List`
: A list of clinical features to be used in the model.

`surv_time`
: A string specifying the name of the survival time column.

`surv_event`
: A string specifying the name of the survival event column.

`nfolds`
: An integer specifying the number of folds for cross-validation. Default is `5`.

Value

A list containing the following components:

`Model`	The fitted MTLR model.
`Error_matrix`	A matrix of error evaluation metrics (C-index and MAE) for training and test sets.
`Survival_predictions`	Predicted survival probabilities, mean survival times, and median survival times.
`Model_type`	The model type selected by the user.

Examples

```
# Example usage of the MTLR_pred_model_f function
data(Train_Clin, package = "CPSM")
data(Test_Clin, package = "CPSM")
data(Key_Clin_feature_list, package = "CPSM")
result <- MTLR_pred_model_f(
   train_clin_data = Train_Clin,
   test_clin_data = Test_Clin,
   Model_type = 1,
   train_features_data = Train_Clin,
   test_features_data = Test_Clin,
   Clin_Feature_List = Key_Clin_feature_list,
   surv_time = "OS_month",
   surv_event = "OS",
   nfolds = 5
  )
```

`New_data` *New data*

Description

This is New data.

Usage

```
data("New_data")
```

Format

A data frame with 176 observations on the following 2025 variables.

`Age` a numeric vector

`subtype` a character vector

`gender` a character vector

race a character vector

ajcc_pathologic_tumor_stage a logical vector

histological_type a character vector

histological_grade a character vector

treatment_outcome_first_course a character vector

radiation_treatment_adjuvant a character vector

sample_type a character vector

type a character vector

OS a numeric vector

OS.time a numeric vector

DSS a numeric vector

DSS.time a numeric vector

DFI a numeric vector

DFI.time a numeric vector

PFI a numeric vector

PFI.time a numeric vector

OS_month a numeric vector

A1BG a numeric vector

A1CF a numeric vector

A2M a numeric vector

A2ML1 a numeric vector

A3GALT2 a numeric vector

A4GALT a numeric vector

A4GNT a numeric vector

AAAS a numeric vector

AACS a numeric vector

AADAC a numeric vector

AADACL2 a numeric vector

AADACL3 a numeric vector

AADACL4 a numeric vector

AADAT a numeric vector

AAGAB a numeric vector

AAK1 a numeric vector

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ATP2C2 a numeric vector

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ATP4B a numeric vector

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ATP5F1E a numeric vector

ATP5IF1 a numeric vector

ATP5MC1 a numeric vector

ATP5MC2 a numeric vector

ATP5MC3 a numeric vector

ATP5MD a numeric vector

ATP5ME a numeric vector

ATP5MF a numeric vector

ATP5MF.PTCD1 a numeric vector

ATP5MG a numeric vector

ATP5MGL a numeric vector

ATP5MPL a numeric vector

ATP5PB a numeric vector

ATP5PD a numeric vector

ATP5PF a numeric vector

ATP5PO a numeric vector

ATP6AP1 a numeric vector

ATP6AP1L a numeric vector

ATP6AP2 a numeric vector

ATP6V0A1 a numeric vector

ATP6V0A2 a numeric vector

ATP6V0A4 a numeric vector

ATP6V0B a numeric vector

ATP6V0C a numeric vector

ATP6V0D1 a numeric vector

ATP6V0D2 a numeric vector

ATP6V0E1 a numeric vector

ATP6V0E2 a numeric vector

ATP6V1A a numeric vector

ATP6V1B1 a numeric vector

ATP6V1B2 a numeric vector

ATP6V1C1 a numeric vector

ATP6V1C2 a numeric vector

ATP6V1D a numeric vector

ATP6V1E1 a numeric vector

ATP6V1E2 a numeric vector

ATP6V1F a numeric vector

ATP6V1FNB a numeric vector

ATP6V1G1 a numeric vector

ATP6V1G2 a numeric vector

ATP6V1G2.DDX39B a numeric vector

ATP6V1G3 a numeric vector

ATP6V1H a numeric vector

ATP7A a numeric vector

ATP7B a numeric vector

ATP8A1 a numeric vector

ATP8A2 a numeric vector

ATP8B1 a numeric vector

ATP8B2 a numeric vector

ATP8B3 a numeric vector

ATP8B4 a numeric vector

ATP9A a numeric vector

ATP9B a numeric vector

ATPAF1 a numeric vector

ATPAF2 a numeric vector

ATPSCKMT a numeric vector

ATR a numeric vector

ATRAID a numeric vector

ATRIP a numeric vector

ATRN a numeric vector

ATRNL1 a numeric vector

ATRX a numeric vector

ATXN1 a numeric vector

ATXN10 a numeric vector

ATXN1L a numeric vector

ATXN2 a numeric vector

ATXN2L a numeric vector

ATXN3 a numeric vector

ATXN3L a numeric vector

ATXN7 a numeric vector

ATXN7L1 a numeric vector

ATXN7L2 a numeric vector

ATXN7L3 a numeric vector

ATXN7L3B a numeric vector

AUH a numeric vector

AUNIP a numeric vector

AUP1 a numeric vector

AURKA a numeric vector

AURKAIP1 a numeric vector

AURKB a numeric vector

AURKC a numeric vector

AUTS2 a numeric vector

AVEN a numeric vector

AVIL a numeric vector

AVL9 a numeric vector

AVP a numeric vector

AVPI1 a numeric vector

AVPR1A a numeric vector

AVPR1B a numeric vector

AVPR2 a numeric vector

AWAT1 a numeric vector

AWAT2 a numeric vector

AXDND1 a numeric vector

AXIN1 a numeric vector

AXIN2 a numeric vector

AXL a numeric vector

AZGP1 a numeric vector

AZI2 a numeric vector

AZIN1 a numeric vector

AZIN2 a numeric vector

AZU1 a numeric vector

B2M a numeric vector

B3GALNT1 a numeric vector

B3GALNT2 a numeric vector

B3GALT1 a numeric vector

B3GALT2 a numeric vector

B3GALT4 a numeric vector

B3GALT5 a numeric vector

B3GALT6 a numeric vector

B3GAT1 a numeric vector

B3GAT2 a numeric vector

B3GAT3 a numeric vector

B3GLCT a numeric vector

B3GNT10 a numeric vector

B3GNT2 a numeric vector

B3GNT3 a numeric vector

B3GNT4 a numeric vector

B3GNT5 a numeric vector

B3GNT6 a numeric vector

B3GNT7 a numeric vector

B3GNT8 a numeric vector

B3GNT9 a numeric vector

B3GNTL1 a numeric vector

B4GALNT1 a numeric vector

B4GALNT2 a numeric vector

B4GALNT3 a numeric vector

B4GALNT4 a numeric vector

B4GALT1 a numeric vector

B4GALT2 a numeric vector

B4GALT3 a numeric vector

B4GALT4 a numeric vector

B4GALT5 a numeric vector

B4GALT6 a numeric vector

B4GALT7 a numeric vector

B4GAT1 a numeric vector

B9D1 a numeric vector

B9D2 a numeric vector

BAALC a numeric vector

BAAT a numeric vector

BABAM1 a numeric vector

BABAM2 a numeric vector

BACE1 a numeric vector

BACE2 a numeric vector

BACH1 a numeric vector

BACH2 a numeric vector

BAD a numeric vector

BAG1 a numeric vector

BAG2 a numeric vector

BAG3 a numeric vector

BAG4 a numeric vector

BAG5 a numeric vector

BAG6 a numeric vector

BAHCC1 a numeric vector

BAHD1 a numeric vector

BAIAP2 a numeric vector

BAIAP2L1 a numeric vector

BAIAP2L2 a numeric vector

BAIAP3 a numeric vector

BAK1 a numeric vector

BAMBI a numeric vector

BANF1 a numeric vector

BANF2 a numeric vector

BANK1 a numeric vector

BANP a numeric vector

BAP1 a numeric vector

BARD1 a numeric vector

BARHL1 a numeric vector

BARHL2 a numeric vector

BARX1 a numeric vector

BARX2 a numeric vector

BASP1 a numeric vector

BATF a numeric vector

BATF2 a numeric vector

BATF3 a numeric vector

BAX a numeric vector

BAZ1A a numeric vector

BAZ1B a numeric vector

BAZ2A a numeric vector

Details

This is New data.

Value

Retuens a dataframe.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(New_data)
## maybe str(New_data)
## plot(New_data)
```

`Nomogram_generate_f` *Nomogram Generation Function*

Description

Nomogram Generation Function

Usage

```
Nomogram_generate_f(
  data,
  Feature_List,
  surv_time,
  surv_event,
  font_size = 0.8,
  axis_cex = 0.5,
  tcl_len = 0.5,
  label_margin = 0.5,
  col_grid = gray(c(0.85, 0.95))
)
```

Arguments

`data`	A data frame containing survival information and predictor variables. Must include columns for survival time, event status, and selected features.
`Feature_List`	A data frame or list containing the selected features (column names) to be included in the nomogram.
`surv_time`	A character string specifying the column name for survival time in the input data.
`surv_event`	A character string specifying the column name for survival event status in the input data (1 for event, 0 for censored).
`font_size`	Numeric. Base font size for the nomogram plot. Default is 0.8
`axis_cex`	Numeric. Scaling factor for axis text size (cex.axis). Default is 0.5
`tcl_len`	Numeric. Tick length on axes (tcl). Default is 0.5
`label_margin`	Numeric. Margin for variable labels (lmgp). Default is 0.5
`col_grid`	Color vector. Grid line colors for the nomogram plot. Default is gray(c(0.85, 0.95))

Details

The function dynamically creates a Cox proportional hazards model based on the selected features and survival data. It computes survival probabilities for 1, 3, 5, and 10 years (if applicable) and plots the nomogram. The function uses internal validation with bootstrapping (B = 1000) to calculate the bias-corrected C-index.

Value

A list containing:

- `C_index_mat`: A matrix containing the bias-corrected and original C-index values.

The following steps are performed:

- Validates input data and renames survival columns to standard names.
- Prepares the data for modeling using `rms::datadist`.
- Dynamically creates a Cox proportional hazards model formula.
- Fits the Cox model using `rms::cph`.
- Generates the nomogram with survival probabilities at specified time points.
- Validates the model and computes C-index values.

Examples

```
data(Train_Data_Nomogram_input, package = "CPSM")
data(feature_list_for_Nomogram, package = "CPSM")
Nomogram_generate_f(
  data = Train_Data_Nomogram_input,
  Feature_List = feature_list_for_Nomogram,
  surv_time = "OS_month",
  surv_event = "OS",
  font_size = 0.8,
  axis_cex = 0.5,
  tcl_len = 0.5,
  label_margin = 0.5,
  col_grid = gray(c(0.85, 0.95))
)
```

---

predict_survival_risk_group_f

Survival Risk Group Prediction Function

Description

This function builds a Random Forest (RF) model to classify samples into high-risk or low-risk survival groups based on selected features.

Usage

```
predict_survival_risk_group_f(
  selected_train_data,
  selected_test_data,
  Feature_List,
  K = 5
)
```

Arguments

selected_train_data	A data frame containing normalized expression data of selected features and survival information for training set.
selected_test_data	A data frame containing normalized expression data of selected features and survival information for test set.
Feature_List	A list of features to be used for predicting the risk class in the model.
K	Numeric value specifying the number of folds for K-fold cross-validation (default = 5).

Value

A list containing the following components:

best_model	The Best RF model.
Train_results	Prediction resulst on Training data
Test_results	Prediction resulst on Test data
misclassification_results	Prediction results of best on model on training and Test data
All_tree_matrix	Prediction results on training and test data based on all models using different number of trees

Examples

```
# Example usage of the predict_survival_risk_group_f function
data(Train_PI_data, package = "CPSM")
data(Test_PI_data, package = "CPSM")
data(Key_PI_list , package = "CPSM")
Results_Risk_group_Prediction<- predict_survival_risk_group_f(selected_train_data = Train_PI_data,
selected_test_data = Test_PI_data, Feature_List = Key_PI_list, K = 5 )
```

---

surv_curve_plots_f *Generate Survival Curve Plots*

Description

This function creates survival curve plots for all patients and highlights a specific patient based on the selected sample.

Arguments

Surv_curve_data	A data frame containing survival curve data. The data frame must include a column named time_point representing time and other columns corresponding to patient survival probabilities.
selected_sample	A character string specifying the patient ID to be highlighted in the plot.
font_size	Numeric. Font size for axis labels, titles, and legends. Must be supplied by the user.
line_size	Numeric. Line thickness for plotted curves. Must be supplied by the user.
all_line_col	Character. Color used for all non-highlighted patients (e.g., "black"). Must be supplied by the user.
highlight_col	Character. Color used to highlight the selected patient (e.g., "red"). Must be supplied by the user.

Details

- The input data (Surv_curve_data) must be structured such that the first column (time_point) represents time points, and each subsequent column represents the survival probabilities for a specific patient.
- If the selected_sample is not present in the column names of Surv_curve_data, a message will indicate that the sample is missing.
- The function uses the ggplot2 package for generating survival curve plots.

Value

A list containing two ggplot2 objects:

all_patients_plot	A ggplot object displaying survival curves for all patients.
highlighted_patient_plot	A ggplot object displaying survival curves for all patients with the selected patient highlighted.

Examples

```
# Example survival curve data
Surv_curve_data <- data.frame(
  time_point = c(0, 1, 2, 3, 4),
  Patient1 = c(1, 0.9, 0.8, 0.7, 0.6),
  Patient2 = c(1, 0.85, 0.75, 0.65, 0.55)
)

# Generate plots with Patient1 highlighted
plots <- surv_curve_plots_f(
  Surv_curve_data,
  selected_sample = "Patient1",
  font_size = 12,
```

```
  line_size = 0.5,
  all_line_col = "black",
  highlight_col = "red"
)

# View the plots
print(plots$all_patients_plot)
print(plots$highlighted_patient_plot)
```

---

survCurves_data *survCurves data*

Description

This is survCurves data.

Usage

```
data("survCurves_data")
```

Format

A data frame with 15 observations on the following 19 variables.

`time_point` a numeric vector

`'TCGA-E1-A7Z6-01'` a numeric vector

`'TCGA-S9-A7IX-01'` a numeric vector

`'TCGA-HT-8010-01'` a numeric vector

`'TCGA-VM-A8C8-01'` a numeric vector

`'TCGA-DU-5847-01'` a numeric vector

`'TCGA-TQ-A7RQ-01'` a numeric vector

`'TCGA-HT-7606-01'` a numeric vector

`'TCGA-S9-A7QY-01'` a numeric vector

`'TCGA-DH-5142-01'` a numeric vector

`'TCGA-DU-6408-01'` a numeric vector

`'TCGA-FG-8191-01'` a numeric vector

`'TCGA-TM-A84S-01'` a numeric vector

`'TCGA-DB-A64S-01'` a numeric vector

`'TCGA-DU-6542-01'` a numeric vector

`'TCGA-DU-A7T6-01'` a numeric vector

`'TCGA-DB-A4XF-01'` a numeric vector

`'TCGA-S9-A6WN-01'` a numeric vector

`'TCGA-P5-A5EX-01'` a numeric vector

Details

This is survCurves data.

Value

This is a data frame.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(survCurves_data)
## maybe str(survCurves_data)
```

`Test_Clin` *Test Clin*

Description

This is Test Clin.

Usage

```
data("Test_Clin")
```

Format

A data frame with 18 observations on the following 20 variables.

`Age` a numeric vector

`subtype` a character vector

`gender` a character vector

`race` a character vector

`ajcc_pathologic_tumor_stage` a logical vector

`histological_type` a character vector

`histological_grade` a character vector

`treatment_outcome_first_course` a character vector

`radiation_treatment_adjuvant` a character vector

`sample_type` a character vector

`type` a character vector

`OS` a numeric vector

`OS.time` a numeric vector

DSS a numeric vector

DSS.time a numeric vector

DFI a numeric vector

DFI.time a numeric vector

PFI a numeric vector

PFI.time a numeric vector

OS_month a numeric vector

Details

This is Test Clin.

Value

A data frame with columns X and Y.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Test_Clin)
## maybe str(Test_Clin)
## plot(Test_Clin)
```

---

test_FPKM *test FPKM*

Description

This is test FPKM.

Usage

```
data("test_FPKM")
```

Format

A data frame with 18 observations on the following 2025 variables.

Age a numeric vector

subtype a character vector

gender a character vector

race a character vector

ajcc_pathologic_tumor_stage a logical vector

histological_type a character vector

histological_grade a character vector

treatment_outcome_first_course a character vector

radiation_treatment_adjuvant a character vector

sample_type a character vector

type a character vector

OS a numeric vector

OS.time a numeric vector

DSS a numeric vector

DSS.time a numeric vector

DFI a numeric vector

DFI.time a numeric vector

PFI a numeric vector

PFI.time a numeric vector

OS_month a numeric vector

A1BG a numeric vector

A1CF a numeric vector

A2M a numeric vector

A2ML1 a numeric vector

A3GALT2 a numeric vector

A4GALT a numeric vector

A4GNT a numeric vector

AAAS a numeric vector

AACS a numeric vector

AADAC a numeric vector

AADACL2 a numeric vector

AADACL3 a numeric vector

AADACL4 a numeric vector

AADAT a numeric vector

AAGAB a numeric vector

AAK1 a numeric vector

AAMDC a numeric vector

AAMP a numeric vector

AANAT a numeric vector

AAR2 a numeric vector

AARD a numeric vector

AARS1 a numeric vector

AARS2 a numeric vector

AARSD1 a numeric vector

AASDH a numeric vector

AASDHPPT a numeric vector

AASS a numeric vector

AATF a numeric vector

AATK a numeric vector

ABAT a numeric vector

ABCA1 a numeric vector

ABCA10 a numeric vector

ABCA12 a numeric vector

ABCA13 a numeric vector

ABCA2 a numeric vector

ABCA3 a numeric vector

ABCA4 a numeric vector

ABCA5 a numeric vector

ABCA6 a numeric vector

ABCA7 a numeric vector

ABCA8 a numeric vector

ABCA9 a numeric vector

ABCB1 a numeric vector

ABCB10 a numeric vector

ABCB11 a numeric vector

ABCB4 a numeric vector

ABCB5 a numeric vector

ABCB6 a numeric vector

ABCB7 a numeric vector

ABCB8 a numeric vector

ABCB9 a numeric vector

ABCC1 a numeric vector

ABCC10 a numeric vector

ABCC11 a numeric vector

ABCC12 a numeric vector

ABCC2 a numeric vector

ABCC3 a numeric vector

ABCC4 a numeric vector

ABCC5 a numeric vector

ABCC6 a numeric vector

ABCC8 a numeric vector

ABCC9 a numeric vector

ABCD1 a numeric vector

ABCD2 a numeric vector

ABCD3 a numeric vector

ABCD4 a numeric vector

ABCE1 a numeric vector

ABCF1 a numeric vector

ABCF2 a numeric vector

ABCF2.H2BE1 a numeric vector

ABCF3 a numeric vector

ABCG1 a numeric vector

ABCG2 a numeric vector

ABCG4 a numeric vector

ABCG5 a numeric vector

ABCG8 a numeric vector

ABHD1 a numeric vector

ABHD10 a numeric vector

ABHD11 a numeric vector

ABHD12 a numeric vector

ABHD12B a numeric vector

ABHD13 a numeric vector

ABHD14A a numeric vector

ABHD14A.ACY1 a numeric vector

ABHD14B a numeric vector

ABHD15 a numeric vector

ABHD16A a numeric vector

ABHD16B a numeric vector

ABHD17A a numeric vector

ABHD17B a numeric vector

ABHD17C a numeric vector

ABHD18 a numeric vector

ABHD2 a numeric vector

ABHD3 a numeric vector

ABHD4 a numeric vector

ABHD5 a numeric vector

ABHD6 a numeric vector

ABHD8 a numeric vector

ABI1 a numeric vector

ABI2 a numeric vector

ABI3 a numeric vector

ABI3BP a numeric vector

ABITRAM a numeric vector

ABL1 a numeric vector

ABL2 a numeric vector

ABLIM1 a numeric vector

ABLIM2 a numeric vector

ABLIM3 a numeric vector

ABO a numeric vector

ABR a numeric vector

ABRA a numeric vector

ABRACL a numeric vector

ABRAXAS1 a numeric vector

ABRAXAS2 a numeric vector

ABT1 a numeric vector

ABTB1 a numeric vector

ABTB2 a numeric vector

AC000093.1 a numeric vector

AC000120.2 a numeric vector

AC000120.3 a numeric vector

AC001226.2 a numeric vector

AC002094.3 a numeric vector

AC002310.4 a numeric vector

AC002456.2 a numeric vector

AC002985.1 a numeric vector

AC002996.1 a numeric vector

AC003002.1 a numeric vector

AC003002.2 a numeric vector

AC003002.3 a numeric vector

AC003005.1 a numeric vector

AC003006.1 a numeric vector

AC003688.1 a numeric vector

AC004076.1 a numeric vector

AC004080.3 a numeric vector

AC004223.3 a numeric vector

AC004233.4 a numeric vector

AC004593.2 a numeric vector

AC004687.2 a numeric vector

AC004691.2 a numeric vector

AC004706.3 a numeric vector

AC004805.1 a numeric vector

AC004832.3 a numeric vector

AC004922.1 a numeric vector

AC004997.1 a numeric vector

AC005020.2 a numeric vector

AC005041.1 a numeric vector

AC005154.5 a numeric vector

AC005192.1 a numeric vector

AC005258.1 a numeric vector

AC005324.2 a numeric vector

AC005324.3 a numeric vector

AC005520.1 a numeric vector

AC005551.1 a numeric vector

AC005670.2 a numeric vector

AC005697.1 a numeric vector

AC005702.1 a numeric vector

AC005726.1 a numeric vector

AC005832.4 a numeric vector

AC005833.1 a numeric vector

AC005837.2 a numeric vector

AC005943.1 a numeric vector

AC006030.1 a numeric vector

AC006059.2 a numeric vector

AC006064.6 a numeric vector

AC006254.1 a numeric vector

AC006486.1 a numeric vector

AC006486.3 a numeric vector

AC006538.2 a numeric vector

AC006978.2 a numeric vector

AC007040.2 a numeric vector

AC007192.1 a numeric vector
AC007326.4 a numeric vector
AC007375.2 a numeric vector
AC007731.4 a numeric vector
AC007846.2 a numeric vector
AC007906.2 a numeric vector
AC007998.2 a numeric vector
AC008012.1 a numeric vector
AC008073.3 a numeric vector
AC008162.2 a numeric vector
AC008397.1 a numeric vector
AC008397.2 a numeric vector
AC008403.1 a numeric vector
AC008481.3 a numeric vector
AC008537.1 a numeric vector
AC008575.1 a numeric vector
AC008581.2 a numeric vector
AC008676.3 a numeric vector
AC008687.1 a numeric vector
AC008687.4 a numeric vector
AC008687.8 a numeric vector
AC008695.1 a numeric vector
AC008750.7 a numeric vector
AC008758.1 a numeric vector
AC008758.5 a numeric vector
AC008758.6 a numeric vector
AC008763.2 a numeric vector
AC008763.3 a numeric vector
AC008763.4 a numeric vector
AC008764.1 a numeric vector
AC008764.4 a numeric vector
AC008770.1 a numeric vector
AC008770.2 a numeric vector
AC008770.4 a numeric vector
AC008878.1 a numeric vector
AC008878.2 a numeric vector
AC008878.3 a numeric vector

AC008982.1 a numeric vector

AC009070.1 a numeric vector

AC009133.6 a numeric vector

AC009163.3 a numeric vector

AC009163.5 a numeric vector

AC009412.1 a numeric vector

AC009690.1 a numeric vector

AC009690.3 a numeric vector

AC009779.3 a numeric vector

AC009879.2 a numeric vector

AC009879.3 a numeric vector

AC010132.3 a numeric vector

AC010197.2 a numeric vector

AC010255.2 a numeric vector

AC010319.2 a numeric vector

AC010323.1 a numeric vector

AC010325.1 a numeric vector

AC010326.2 a numeric vector

AC010327.2 a numeric vector

AC010422.3 a numeric vector

AC010422.5 a numeric vector

AC010422.6 a numeric vector

AC010422.8 a numeric vector

AC010463.1 a numeric vector

AC010522.1 a numeric vector

AC010531.1 a numeric vector

AC010542.3 a numeric vector

AC010547.4 a numeric vector

AC010615.4 a numeric vector

AC010616.1 a numeric vector

AC010619.1 a numeric vector

AC010646.1 a numeric vector

AC010973.3 a numeric vector

AC010980.1 a numeric vector

AC011005.1 a numeric vector

AC011330.3 a numeric vector

AC011448.1 a numeric vector

AC011452.1 a numeric vector
AC011455.2 a numeric vector
AC011462.1 a numeric vector
AC011473.4 a numeric vector
AC011479.1 a numeric vector
AC011498.4 a numeric vector
AC011499.1 a numeric vector
AC011511.1 a numeric vector
AC011511.4 a numeric vector
AC011530.1 a numeric vector
AC012184.2 a numeric vector
AC012213.5 a numeric vector
AC012254.2 a numeric vector
AC012309.1 a numeric vector
AC012488.2 a numeric vector
AC012531.3 a numeric vector
AC012651.1 a numeric vector
AC013271.1 a numeric vector
AC013394.1 a numeric vector
AC013470.2 a numeric vector
AC013477.1 a numeric vector
AC013489.1 a numeric vector
AC013717.1 a numeric vector
AC015688.4 a numeric vector
AC015802.6 a numeric vector
AC015813.2 a numeric vector
AC017083.3 a numeric vector
AC018362.3 a numeric vector
AC018512.1 a numeric vector
AC018523.2 a numeric vector
AC018630.4 a numeric vector
AC018709.1 a numeric vector
AC018755.2 a numeric vector
AC018809.3 a numeric vector
AC019117.3 a numeric vector
AC019257.8 a numeric vector
AC020636.2 a numeric vector

AC020765.6 a numeric vector
AC020907.6 a numeric vector
AC020909.1 a numeric vector
AC020915.4 a numeric vector
AC020922.1 a numeric vector
AC021072.1 a numeric vector
AC021087.5 a numeric vector
AC021660.3 a numeric vector
AC022335.1 a numeric vector
AC022384.1 a numeric vector
AC022400.5 a numeric vector
AC022414.1 a numeric vector
AC022415.2 a numeric vector
AC022506.1 a numeric vector
AC022826.2 a numeric vector
AC023055.1 a numeric vector
AC024592.3 a numeric vector
AC024598.1 a numeric vector
AC025165.3 a numeric vector
AC025165.6 a numeric vector
AC025263.2 a numeric vector
AC025283.2 a numeric vector
AC025287.4 a numeric vector
AC026316.4 a numeric vector
AC026464.1 a numeric vector
AC026464.3 a numeric vector
AC026464.4 a numeric vector
AC026464.6 a numeric vector
AC026786.1 a numeric vector
AC026954.2 a numeric vector
AC027644.4 a numeric vector
AC027796.3 a numeric vector
AC034102.2 a numeric vector
AC034228.3 a numeric vector
AC036214.3 a numeric vector
AC037459.1 a numeric vector
AC040162.1 a numeric vector

AC046185.1 a numeric vector
AC048338.1 a numeric vector
AC048338.2 a numeric vector
AC053503.6 a numeric vector
AC055811.2 a numeric vector
AC055839.2 a numeric vector
AC058822.1 a numeric vector
AC063943.2 a numeric vector
AC067968.1 a numeric vector
AC068234.1 a numeric vector
AC068533.4 a numeric vector
AC068547.1 a numeric vector
AC068580.4 a numeric vector
AC068631.2 a numeric vector
AC068775.1 a numeric vector
AC068831.6 a numeric vector
AC068870.4 a numeric vector
AC068896.1 a numeric vector
AC068946.1 a numeric vector
AC068946.2 a numeric vector
AC069257.3 a numeric vector
AC069288.1 a numeric vector
AC069368.1 a numeric vector
AC069444.2 a numeric vector
AC069503.2 a numeric vector
AC069544.2 a numeric vector
AC072022.2 a numeric vector
AC073082.1 a numeric vector
AC073111.3 a numeric vector
AC073283.3 a numeric vector
AC073508.2 a numeric vector
AC073585.1 a numeric vector
AC073610.2 a numeric vector
AC073612.1 a numeric vector
AC073896.1 a numeric vector
AC074143.1 a numeric vector
AC078815.1 a numeric vector

AC078927.1 a numeric vector

AC079447.1 a numeric vector

AC079594.1 a numeric vector

AC079741.2 a numeric vector

AC083800.1 a numeric vector

AC083977.1 a numeric vector

AC084337.2 a numeric vector

AC084756.2 a numeric vector

AC087289.3 a numeric vector

AC087632.2 a numeric vector

AC087721.2 a numeric vector

AC090004.1 a numeric vector

AC090227.2 a numeric vector

AC090360.1 a numeric vector

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ANKRD61 a numeric vector

ANKRD62 a numeric vector

ANKRD63 a numeric vector

ANKRD65 a numeric vector

ANKRD66 a numeric vector

ANKRD7 a numeric vector

ANKRD9 a numeric vector

ANKS1A a numeric vector

ANKS1B a numeric vector

ANKS3 a numeric vector

ANKS4B a numeric vector

ANKS6 a numeric vector

ANKUB1 a numeric vector

ANKZF1 a numeric vector

ANLN a numeric vector

ANO1 a numeric vector

ANO10 a numeric vector

ANO2 a numeric vector

ANO3 a numeric vector

ANO4 a numeric vector

ANO5 a numeric vector

ANO6 a numeric vector

ANO7 a numeric vector

ANO8 a numeric vector

ANO9 a numeric vector

ANOS1 a numeric vector

ANP32A a numeric vector

ANP32B a numeric vector

ANP32D a numeric vector

ANP32E a numeric vector

ANPEP a numeric vector

ANTKMT a numeric vector

ANTXR1 a numeric vector

ANTXR2 a numeric vector

ANTXRL a numeric vector

ANXA1 a numeric vector

ANXA10 a numeric vector

ANXA11 a numeric vector

ANXA13 a numeric vector

ANXA2 a numeric vector

ANXA2R a numeric vector

ANXA3 a numeric vector

ANXA4 a numeric vector

ANXA5 a numeric vector

ANXA6 a numeric vector

ANXA7 a numeric vector

ANXA8 a numeric vector

ANXA8L1 a numeric vector

ANXA9 a numeric vector

AOAH a numeric vector

AOC1 a numeric vector

AOC2 a numeric vector

AOC3 a numeric vector

AOPEP a numeric vector

AOX1 a numeric vector

AP000295.1 a numeric vector

AP000311.1 a numeric vector

AP000350.4 a numeric vector

AP000356.5 a numeric vector

AP000471.1 a numeric vector

AP000721.1 a numeric vector

AP000781.2 a numeric vector

AP000812.3 a numeric vector

AP000812.4 a numeric vector

AP000944.5 a numeric vector

AP001054.1 a numeric vector

AP001267.5 a numeric vector

AP001273.2 a numeric vector

AP001453.3 a numeric vector

AP001458.2 a numeric vector

AP001781.2 a numeric vector

AP001931.1 a numeric vector

AP001931.2 a numeric vector

AP002373.1 a numeric vector

AP002495.1 a numeric vector

AP002512.3 a numeric vector

AP002748.5 a numeric vector

AP002884.2 a numeric vector

AP002990.1 a numeric vector

AP003071.5 a numeric vector

AP003108.2 a numeric vector

AP003419.1 a numeric vector

AP006621.6 a numeric vector

AP1AR a numeric vector

AP1B1 a numeric vector

AP1G1 a numeric vector

AP1G2 a numeric vector

AP1M1 a numeric vector

AP1M2 a numeric vector

AP1S1 a numeric vector

AP1S2 a numeric vector

AP1S3 a numeric vector

AP2A1 a numeric vector

AP2A2 a numeric vector

AP2B1 a numeric vector

AP2M1 a numeric vector

AP2S1 a numeric vector

AP3B1 a numeric vector

AP3B2 a numeric vector

AP3D1 a numeric vector

AP3M1 a numeric vector

AP3M2 a numeric vector

AP3S1 a numeric vector

AP3S2 a numeric vector

AP4B1 a numeric vector

AP4E1 a numeric vector

AP4M1 a numeric vector

AP4S1 a numeric vector

AP5B1 a numeric vector

AP5M1 a numeric vector

AP5S1 a numeric vector

AP5Z1 a numeric vector

APAF1 a numeric vector

APBA1 a numeric vector

APBA2 a numeric vector

APBA3 a numeric vector

APBB1 a numeric vector

APBB1IP a numeric vector

APBB2 a numeric vector

APBB3 a numeric vector

APC a numeric vector

APC2 a numeric vector

APCDD1 a numeric vector

APCDD1L a numeric vector

APCS a numeric vector

APEH a numeric vector

APELA a numeric vector

APEX1 a numeric vector

APEX2 a numeric vector

APH1A a numeric vector

APH1B a numeric vector

API5 a numeric vector

APIP a numeric vector

APLF a numeric vector

APLN a numeric vector

APLNR a numeric vector

APLP1 a numeric vector

APLP2 a numeric vector

APMAP a numeric vector

APOA1 a numeric vector

APOA2 a numeric vector

APOA4 a numeric vector

APOA5 a numeric vector

APOB a numeric vector

APOBEC1 a numeric vector

APOBEC2 a numeric vector

APOBEC3A a numeric vector

APOBEC3B a numeric vector

APOBEC3C a numeric vector

APOBEC3D a numeric vector

APOBEC3F a numeric vector

APOBEC3G a numeric vector

APOBEC3H a numeric vector

APOBEC4 a numeric vector

APOBR a numeric vector

APOC1 a numeric vector

APOC2 a numeric vector

APOC3 a numeric vector

APOC4 a numeric vector

APOC4.APOC2 a numeric vector

APOD a numeric vector

APOE a numeric vector

APOF a numeric vector

APOH a numeric vector

APOL1 a numeric vector

APOL2 a numeric vector

APOL3 a numeric vector

APOL4 a numeric vector

APOL5 a numeric vector

APOL6 a numeric vector

APOLD1 a numeric vector

APOM a numeric vector

APOO a numeric vector

APOOL a numeric vector

APP a numeric vector

APPBP2 a numeric vector

APPL1 a numeric vector

APPL2 a numeric vector

APRT a numeric vector

APTX a numeric vector

AQP1 a numeric vector

AQP10 a numeric vector

AQP11 a numeric vector

AQP12A a numeric vector

AQP12B a numeric vector

AQP2 a numeric vector

AQP3 a numeric vector

AQP4 a numeric vector

AQP5 a numeric vector

AQP6 a numeric vector

AQP7 a numeric vector

AQP8 a numeric vector

AQP9 a numeric vector

AQR a numeric vector

AR a numeric vector

ARAF a numeric vector

ARAP1 a numeric vector

ARAP2 a numeric vector

ARAP3 a numeric vector

ARC a numeric vector

ARCN1 a numeric vector

AREG a numeric vector

AREL1 a numeric vector

ARF1 a numeric vector

ARF3 a numeric vector

ARF4 a numeric vector

ARF5 a numeric vector

ARF6 a numeric vector

ARFGAP1 a numeric vector

ARFGAP2 a numeric vector

ARFGAP3 a numeric vector

ARFGEF1 a numeric vector

ARFGEF2 a numeric vector

ARFGEF3 a numeric vector

ARFIP1 a numeric vector

ARFIP2 a numeric vector

ARFRP1 a numeric vector

ARG1 a numeric vector

ARG2 a numeric vector

ARGFX a numeric vector

ARGLU1 a numeric vector

ARHGAP1 a numeric vector

ARHGAP10 a numeric vector

ARHGAP11A a numeric vector

ARHGAP11B a numeric vector

ARHGAP12 a numeric vector

ARHGAP15 a numeric vector

ARHGAP17 a numeric vector

ARHGAP18 a numeric vector

ARHGAP19 a numeric vector

ARHGAP19.SLIT1 a numeric vector

ARHGAP20 a numeric vector

ARHGAP21 a numeric vector

ARHGAP22 a numeric vector

ARHGAP23 a numeric vector

ARHGAP24 a numeric vector

ARHGAP25 a numeric vector

ARHGAP26 a numeric vector

ARHGAP27 a numeric vector

ARHGAP28 a numeric vector

ARHGAP29 a numeric vector

ARHGAP30 a numeric vector

ARHGAP31 a numeric vector

ARHGAP32 a numeric vector

ARHGAP33 a numeric vector

ARHGAP35 a numeric vector

ARHGAP36 a numeric vector

ARHGAP39 a numeric vector

ARHGAP4 a numeric vector

ARHGAP40 a numeric vector

ARHGAP42 a numeric vector

ARHGAP44 a numeric vector

ARHGAP45 a numeric vector

ARHGAP5 a numeric vector

ARHGAP6 a numeric vector

ARHGAP8 a numeric vector

ARHGAP9 a numeric vector

ARHGDIA a numeric vector

ARHGDIB a numeric vector

ARHGDIG a numeric vector

ARHGEF1 a numeric vector

ARHGEF10 a numeric vector

ARHGEF10L a numeric vector

ARHGEF11 a numeric vector

ARHGEF12 a numeric vector

ARHGEF15 a numeric vector

ARHGEF16 a numeric vector

ARHGEF17 a numeric vector

ARHGEF18 a numeric vector

ARHGEF19 a numeric vector

ARHGEF2 a numeric vector

ARHGEF25 a numeric vector

ARHGEF26 a numeric vector

ARHGEF28 a numeric vector

ARHGEF3 a numeric vector

ARHGEF33 a numeric vector

ARHGEF35 a numeric vector

ARHGEF37 a numeric vector

ARHGEF38 a numeric vector

ARHGEF39 a numeric vector

ARHGEF4 a numeric vector

ARHGEF40 a numeric vector

ARHGEF5 a numeric vector

ARHGEF6 a numeric vector

ARHGEF7 a numeric vector

ARHGEF9 a numeric vector

ARID1A a numeric vector

ARID1B a numeric vector

ARID2 a numeric vector

ARID3A a numeric vector

ARID3B a numeric vector

ARID3BP1 a numeric vector

ARID3C a numeric vector

ARID4A a numeric vector

ARID4B a numeric vector

ARID5A a numeric vector

ARID5B a numeric vector

ARIH1 a numeric vector

ARIH2 a numeric vector

ARL1 a numeric vector

ARL10 a numeric vector

ARL11 a numeric vector

ARL13A a numeric vector

ARL13B a numeric vector

ARL14 a numeric vector

ARL14EP a numeric vector

ARL14EPL a numeric vector

ARL15 a numeric vector

ARL16 a numeric vector

ARL17A a numeric vector

ARL17B a numeric vector

ARL2 a numeric vector

ARL2.SNX15 a numeric vector

ARL2BP a numeric vector

ARL3 a numeric vector

ARL4A a numeric vector

ARL4C a numeric vector

ARL4D a numeric vector

ARL5A a numeric vector

ARL5B a numeric vector

ARL5C a numeric vector

ARL6 a numeric vector

ARL6IP1 a numeric vector

ARL6IP4 a numeric vector

ARL6IP5 a numeric vector

ARL6IP6 a numeric vector

ARL8A a numeric vector

ARL8B a numeric vector

ARL9 a numeric vector

ARMC1 a numeric vector

ARMC10 a numeric vector

ARMC12 a numeric vector

ARMC2 a numeric vector

ARMC3 a numeric vector

ARMC4 a numeric vector

ARMC5 a numeric vector

ARMC6 a numeric vector

ARMC7 a numeric vector

ARMC8 a numeric vector

ARMC9 a numeric vector

ARMCX1 a numeric vector

ARMCX2 a numeric vector

ARMCX3 a numeric vector

ARMCX4 a numeric vector

ARMCX5 a numeric vector

ARMCX5.GPRASP2 a numeric vector

ARMCX6 a numeric vector

ARMH1 a numeric vector

ARMH2 a numeric vector

ARMH3 a numeric vector

ARMH4 a numeric vector

ARMS2 a numeric vector

ARMT1 a numeric vector

ARNT a numeric vector

ARNT2 a numeric vector

ARNTL a numeric vector

ARNTL2 a numeric vector

ARPC1A a numeric vector

ARPC1B a numeric vector

ARPC2 a numeric vector

ARPC3 a numeric vector

ARPC4 a numeric vector

ARPC4.TTLL3 a numeric vector

ARPC5 a numeric vector

ARPC5L a numeric vector

ARPIN a numeric vector

ARPIN.AP3S2 a numeric vector

ARPP19 a numeric vector

ARPP21 a numeric vector

ARR3 a numeric vector

ARRB1 a numeric vector

ARRB2 a numeric vector

ARRDC1 a numeric vector

ARRDC2 a numeric vector

ARRDC3 a numeric vector

ARRDC4 a numeric vector

ARRDC5 a numeric vector

ARSA a numeric vector

ARSB a numeric vector

ARSD a numeric vector

ARSF a numeric vector

ARSG a numeric vector

ARSH a numeric vector

ARSI a numeric vector

ARSJ a numeric vector

ARSK a numeric vector

ARSL a numeric vector

ART1 a numeric vector

ART3 a numeric vector

ART4 a numeric vector

ART5 a numeric vector

ARTN a numeric vector

ARV1 a numeric vector

ARVCF a numeric vector

ARX a numeric vector

AS3MT a numeric vector

ASAH1 a numeric vector

ASAH2 a numeric vector

ASAH2B a numeric vector

ASAP1 a numeric vector

ASAP2 a numeric vector

ASAP3 a numeric vector

ASB1 a numeric vector

ASB10 a numeric vector

ASB11 a numeric vector

ASB12 a numeric vector

ASB13 a numeric vector

ASB14 a numeric vector

ASB15 a numeric vector

ASB16 a numeric vector

ASB17 a numeric vector

ASB18 a numeric vector

ASB2 a numeric vector

ASB3 a numeric vector

ASB4 a numeric vector

ASB5 a numeric vector

ASB6 a numeric vector

ASB7 a numeric vector

ASB8 a numeric vector

ASB9 a numeric vector

ASCC1 a numeric vector

ASCC2 a numeric vector

ASCC3 a numeric vector

ASCL1 a numeric vector

ASCL2 a numeric vector

ASCL3 a numeric vector

ASCL4 a numeric vector

ASCL5 a numeric vector

ASDURF a numeric vector

ASF1A a numeric vector

ASF1B a numeric vector

ASGR1 a numeric vector

ASGR2 a numeric vector

ASH1L a numeric vector

ASH2L a numeric vector

ASIC1 a numeric vector

ASIC2 a numeric vector

ASIC3 a numeric vector

ASIC4 a numeric vector

ASIC5 a numeric vector

ASIP a numeric vector

ASL a numeric vector

ASMT a numeric vector

ASMTL a numeric vector

ASNS a numeric vector

ASNSD1 a numeric vector

ASPA a numeric vector

ASPDH a numeric vector

ASPG a numeric vector

ASPH a numeric vector

ASPHD1 a numeric vector

ASPHD2 a numeric vector

ASPM a numeric vector

ASPN a numeric vector

ASPRV1 a numeric vector

ASPSCR1 a numeric vector

ASRGL1 a numeric vector

ASS1 a numeric vector

ASTE1 a numeric vector

ASTL a numeric vector

ASTN1 a numeric vector

ASTN2 a numeric vector

ASXL1 a numeric vector

ASXL2 a numeric vector

ASXL3 a numeric vector

ASZ1 a numeric vector

ATAD1 a numeric vector

ATAD2 a numeric vector

ATAD2B a numeric vector

ATAD3A a numeric vector

ATAD3B a numeric vector

ATAD3C a numeric vector

ATAD5 a numeric vector

ATAT1 a numeric vector

ATCAY a numeric vector

ATE1 a numeric vector

ATF1 a numeric vector

ATF2 a numeric vector

ATF3 a numeric vector

ATF4 a numeric vector

ATF5 a numeric vector

ATF6 a numeric vector

ATF6B a numeric vector

ATF7 a numeric vector

ATF7.NPFF a numeric vector

ATF7IP a numeric vector

ATF7IP2 a numeric vector

ATG10 a numeric vector

ATG101 a numeric vector

ATG12 a numeric vector

ATG13 a numeric vector

ATG14 a numeric vector

ATG16L1 a numeric vector

ATG16L2 a numeric vector

ATG2A a numeric vector

ATG2B a numeric vector

ATG3 a numeric vector

ATG4A a numeric vector

ATG4B a numeric vector

ATG4C a numeric vector

ATG4D a numeric vector

ATG5 a numeric vector

ATG7 a numeric vector

ATG9A a numeric vector

ATG9B a numeric vector

ATIC a numeric vector

ATL1 a numeric vector

ATL2 a numeric vector

ATL3 a numeric vector

ATM a numeric vector

ATMIN a numeric vector

ATN1 a numeric vector

ATOH1 a numeric vector

ATOH7 a numeric vector

ATOH8 a numeric vector

ATOX1 a numeric vector

ATP10A a numeric vector

ATP10B a numeric vector

ATP10D a numeric vector

ATP11A a numeric vector

ATP11B a numeric vector

ATP11C a numeric vector

ATP12A a numeric vector

ATP13A1 a numeric vector

ATP13A2 a numeric vector

ATP13A3 a numeric vector

ATP13A4 a numeric vector

ATP13A5 a numeric vector

ATP1A1 a numeric vector

ATP1A2 a numeric vector

ATP1A3 a numeric vector

ATP1A4 a numeric vector

ATP1B1 a numeric vector

ATP1B2 a numeric vector

ATP1B3 a numeric vector

ATP1B4 a numeric vector

ATP23 a numeric vector

ATP2A1 a numeric vector

ATP2A2 a numeric vector

ATP2A3 a numeric vector

ATP2B1 a numeric vector

ATP2B2 a numeric vector

ATP2B3 a numeric vector

ATP2B4 a numeric vector

ATP2C1 a numeric vector

ATP2C2 a numeric vector

ATP4A a numeric vector

ATP4B a numeric vector

ATP5F1A a numeric vector

ATP5F1B a numeric vector

ATP5F1C a numeric vector

ATP5F1D a numeric vector

ATP5F1E a numeric vector

ATP5IF1 a numeric vector

ATP5MC1 a numeric vector

ATP5MC2 a numeric vector

ATP5MC3 a numeric vector

ATP5MD a numeric vector

ATP5ME a numeric vector

ATP5MF a numeric vector

ATP5MF.PTCD1 a numeric vector

ATP5MG a numeric vector

ATP5MGL a numeric vector

ATP5MPL a numeric vector

ATP5PB a numeric vector

ATP5PD a numeric vector

ATP5PF a numeric vector

ATP5PO a numeric vector

ATP6AP1 a numeric vector

ATP6AP1L a numeric vector

ATP6AP2 a numeric vector

ATP6V0A1 a numeric vector

ATP6V0A2 a numeric vector

ATP6V0A4 a numeric vector

ATP6V0B a numeric vector

ATP6V0C a numeric vector

ATP6V0D1 a numeric vector

ATP6V0D2 a numeric vector

ATP6V0E1 a numeric vector

ATP6V0E2 a numeric vector

ATP6V1A a numeric vector

ATP6V1B1 a numeric vector

ATP6V1B2 a numeric vector

ATP6V1C1 a numeric vector

ATP6V1C2 a numeric vector

ATP6V1D a numeric vector

ATP6V1E1 a numeric vector

ATP6V1E2 a numeric vector

ATP6V1F a numeric vector

ATP6V1FNB a numeric vector

ATP6V1G1 a numeric vector

ATP6V1G2 a numeric vector

ATP6V1G2.DDX39B a numeric vector

ATP6V1G3 a numeric vector

ATP6V1H a numeric vector

ATP7A a numeric vector

ATP7B a numeric vector

ATP8A1 a numeric vector

ATP8A2 a numeric vector

ATP8B1 a numeric vector

ATP8B2 a numeric vector

ATP8B3 a numeric vector

ATP8B4 a numeric vector

ATP9A a numeric vector

ATP9B a numeric vector

ATPAF1 a numeric vector

ATPAF2 a numeric vector

ATPSCKMT a numeric vector

ATR a numeric vector

ATRAID a numeric vector

ATRIP a numeric vector

ATRN a numeric vector

ATRNL1 a numeric vector

ATRX a numeric vector

ATXN1 a numeric vector

ATXN10 a numeric vector

ATXN1L a numeric vector

ATXN2 a numeric vector

ATXN2L a numeric vector

ATXN3 a numeric vector

ATXN3L a numeric vector

ATXN7 a numeric vector

ATXN7L1 a numeric vector

ATXN7L2 a numeric vector

ATXN7L3 a numeric vector

ATXN7L3B a numeric vector

AUH a numeric vector

AUNIP a numeric vector

AUP1 a numeric vector

AURKA a numeric vector

AURKAIP1 a numeric vector

AURKB a numeric vector

AURKC a numeric vector

AUTS2 a numeric vector

AVEN a numeric vector

AVIL a numeric vector

AVL9 a numeric vector

AVP a numeric vector

AVPI1 a numeric vector

AVPR1A a numeric vector

AVPR1B a numeric vector

AVPR2 a numeric vector

AWAT1 a numeric vector

AWAT2 a numeric vector

AXDND1 a numeric vector

AXIN1 a numeric vector

AXIN2 a numeric vector

AXL a numeric vector

AZGP1 a numeric vector

AZI2 a numeric vector

AZIN1 a numeric vector

AZIN2 a numeric vector

AZU1 a numeric vector

B2M a numeric vector

B3GALNT1 a numeric vector

B3GALNT2 a numeric vector

B3GALT1 a numeric vector

B3GALT2 a numeric vector

B3GALT4 a numeric vector

B3GALT5 a numeric vector

B3GALT6 a numeric vector

B3GAT1 a numeric vector

B3GAT2 a numeric vector

B3GAT3 a numeric vector

B3GLCT a numeric vector

B3GNT10 a numeric vector

B3GNT2 a numeric vector

B3GNT3 a numeric vector

B3GNT4 a numeric vector

B3GNT5 a numeric vector

B3GNT6 a numeric vector

B3GNT7 a numeric vector

B3GNT8 a numeric vector

B3GNT9 a numeric vector

B3GNTL1 a numeric vector

B4GALNT1 a numeric vector

B4GALNT2 a numeric vector

B4GALNT3 a numeric vector

B4GALNT4 a numeric vector

B4GALT1 a numeric vector

B4GALT2 a numeric vector

B4GALT3 a numeric vector

B4GALT4 a numeric vector

B4GALT5 a numeric vector

B4GALT6 a numeric vector

B4GALT7 a numeric vector

B4GAT1 a numeric vector

B9D1 a numeric vector

B9D2 a numeric vector

BAALC a numeric vector

BAAT a numeric vector

BABAM1 a numeric vector

BABAM2 a numeric vector

BACE1 a numeric vector

BACE2 a numeric vector

BACH1 a numeric vector

BACH2 a numeric vector

BAD a numeric vector

BAG1 a numeric vector

BAG2 a numeric vector

BAG3 a numeric vector

BAG4 a numeric vector

BAG5 a numeric vector

BAG6 a numeric vector

BAHCC1 a numeric vector

BAHD1 a numeric vector

BAIAP2 a numeric vector

BAIAP2L1 a numeric vector

BAIAP2L2 a numeric vector

BAIAP3 a numeric vector

BAK1 a numeric vector

BAMBI a numeric vector

BANF1 a numeric vector

BANF2 a numeric vector

BANK1 a numeric vector

BANP a numeric vector

BAP1 a numeric vector

BARD1 a numeric vector

BARHL1 a numeric vector

BARHL2 a numeric vector

BARX1 a numeric vector

BARX2 a numeric vector

BASP1 a numeric vector

BATF a numeric vector

BATF2 a numeric vector

BATF3 a numeric vector

BAX a numeric vector

BAZ1A a numeric vector

BAZ1B a numeric vector

BAZ2A a numeric vector

Details

This is test FPKM.

Value

Returns a dataframe.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(test_FPKM)
## maybe str(test_FPKM)
## plot(test_FPKM)
```

Test_Norm_data *Test Norm data*

Description

This is Test Norm data.

Usage

```
data("Test_Norm_data")
```

Format

A data frame with 18 observations on the following 2025 variables.

`Age` a numeric vector

`subtype` a character vector

`gender` a character vector

`race` a character vector

`ajcc_pathologic_tumor_stage` a logical vector

`histological_type` a character vector

`histological_grade` a character vector

`treatment_outcome_first_course` a character vector

`radiation_treatment_adjuvant` a character vector

`sample_type` a character vector

`type` a character vector

`OS` a numeric vector

`OS.time` a numeric vector

`DSS` a numeric vector

`DSS.time` a numeric vector

`DFI` a numeric vector

`DFI.time` a numeric vector

`PFI` a numeric vector

`PFI.time` a numeric vector

`OS_month` a numeric vector

`A1BG` a numeric vector

`A1CF` a numeric vector

`A2M` a numeric vector

`A2ML1` a numeric vector

`A3GALT2` a numeric vector

A4GALT a numeric vector

A4GNT a numeric vector

AAAS a numeric vector

AACS a numeric vector

AADAC a numeric vector

AADACL2 a numeric vector

AADACL3 a numeric vector

AADACL4 a numeric vector

AADAT a numeric vector

AAGAB a numeric vector

AAK1 a numeric vector

AAMDC a numeric vector

AAMP a numeric vector

AANAT a numeric vector

AAR2 a numeric vector

AARD a numeric vector

AARS1 a numeric vector

AARS2 a numeric vector

AARSD1 a numeric vector

AASDH a numeric vector

AASDHPPT a numeric vector

AASS a numeric vector

AATF a numeric vector

AATK a numeric vector

ABAT a numeric vector

ABCA1 a numeric vector

ABCA10 a numeric vector

ABCA12 a numeric vector

ABCA13 a numeric vector

ABCA2 a numeric vector

ABCA3 a numeric vector

ABCA4 a numeric vector

ABCA5 a numeric vector

ABCA6 a numeric vector

ABCA7 a numeric vector

ABCA8 a numeric vector

ABCA9 a numeric vector

ABCB1 a numeric vector

ABCB10 a numeric vector

ABCB11 a numeric vector

ABCB4 a numeric vector

ABCB5 a numeric vector

ABCB6 a numeric vector

ABCB7 a numeric vector

ABCB8 a numeric vector

ABCB9 a numeric vector

ABCC1 a numeric vector

ABCC10 a numeric vector

ABCC11 a numeric vector

ABCC12 a numeric vector

ABCC2 a numeric vector

ABCC3 a numeric vector

ABCC4 a numeric vector

ABCC5 a numeric vector

ABCC6 a numeric vector

ABCC8 a numeric vector

ABCC9 a numeric vector

ABCD1 a numeric vector

ABCD2 a numeric vector

ABCD3 a numeric vector

ABCD4 a numeric vector

ABCE1 a numeric vector

ABCF1 a numeric vector

ABCF2 a numeric vector

ABCF2.H2BE1 a numeric vector

ABCF3 a numeric vector

ABCG1 a numeric vector

ABCG2 a numeric vector

ABCG4 a numeric vector

ABCG5 a numeric vector

ABCG8 a numeric vector

ABHD1 a numeric vector

ABHD10 a numeric vector

ABHD11 a numeric vector

ABHD12 a numeric vector

ABHD12B a numeric vector

ABHD13 a numeric vector

ABHD14A a numeric vector

ABHD14A.ACY1 a numeric vector

ABHD14B a numeric vector

ABHD15 a numeric vector

ABHD16A a numeric vector

ABHD16B a numeric vector

ABHD17A a numeric vector

ABHD17B a numeric vector

ABHD17C a numeric vector

ABHD18 a numeric vector

ABHD2 a numeric vector

ABHD3 a numeric vector

ABHD4 a numeric vector

ABHD5 a numeric vector

ABHD6 a numeric vector

ABHD8 a numeric vector

ABI1 a numeric vector

ABI2 a numeric vector

ABI3 a numeric vector

ABI3BP a numeric vector

ABITRAM a numeric vector

ABL1 a numeric vector

ABL2 a numeric vector

ABLIM1 a numeric vector

ABLIM2 a numeric vector

ABLIM3 a numeric vector

ABO a numeric vector

ABR a numeric vector

ABRA a numeric vector

ABRACL a numeric vector

ABRAXAS1 a numeric vector

ABRAXAS2 a numeric vector

ABT1 a numeric vector

ABTB1 a numeric vector

ABTB2 a numeric vector
AC000093.1 a numeric vector
AC000120.2 a numeric vector
AC000120.3 a numeric vector
AC001226.2 a numeric vector
AC002094.3 a numeric vector
AC002310.4 a numeric vector
AC002456.2 a numeric vector
AC002985.1 a numeric vector
AC002996.1 a numeric vector
AC003002.1 a numeric vector
AC003002.2 a numeric vector
AC003002.3 a numeric vector
AC003005.1 a numeric vector
AC003006.1 a numeric vector
AC003688.1 a numeric vector
AC004076.1 a numeric vector
AC004080.3 a numeric vector
AC004223.3 a numeric vector
AC004233.4 a numeric vector
AC004593.2 a numeric vector
AC004687.2 a numeric vector
AC004691.2 a numeric vector
AC004706.3 a numeric vector
AC004805.1 a numeric vector
AC004832.3 a numeric vector
AC004922.1 a numeric vector
AC004997.1 a numeric vector
AC005020.2 a numeric vector
AC005041.1 a numeric vector
AC005154.5 a numeric vector
AC005192.1 a numeric vector
AC005258.1 a numeric vector
AC005324.2 a numeric vector
AC005324.3 a numeric vector
AC005520.1 a numeric vector
AC005551.1 a numeric vector

AC005670.2 a numeric vector
AC005697.1 a numeric vector
AC005702.1 a numeric vector
AC005726.1 a numeric vector
AC005832.4 a numeric vector
AC005833.1 a numeric vector
AC005837.2 a numeric vector
AC005943.1 a numeric vector
AC006030.1 a numeric vector
AC006059.2 a numeric vector
AC006064.6 a numeric vector
AC006254.1 a numeric vector
AC006486.1 a numeric vector
AC006486.3 a numeric vector
AC006538.2 a numeric vector
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AC007040.2 a numeric vector
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BAG2 a numeric vector
BAG3 a numeric vector
BAG4 a numeric vector
BAG5 a numeric vector
BAG6 a numeric vector
BAHCC1 a numeric vector
BAHD1 a numeric vector
BAIAP2 a numeric vector
BAIAP2L1 a numeric vector
BAIAP2L2 a numeric vector
BAIAP3 a numeric vector
BAK1 a numeric vector
BAMBI a numeric vector
BANF1 a numeric vector
BANF2 a numeric vector
BANK1 a numeric vector
BANP a numeric vector
BAP1 a numeric vector
BARD1 a numeric vector
BARHL1 a numeric vector
BARHL2 a numeric vector
BARX1 a numeric vector
BARX2 a numeric vector
BASP1 a numeric vector
BATF a numeric vector
BATF2 a numeric vector
BATF3 a numeric vector
BAX a numeric vector
BAZ1A a numeric vector
BAZ1B a numeric vector
BAZ2A a numeric vector

Details

This is Test Norm data.

Value

Returns a dataframe.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Test_Norm_data)
## maybe str(Test_Norm_data)
## plot(Test_Norm_data)
```

Test_PI_data *Test PI data*

Description

This is Test PI data.

Usage

```
data("Test_PI_data")
```

Format

A data frame with 18 observations on the following 57 variables.

`OS` a numeric vector

`OS_month` a numeric vector

`AADACL4` a numeric vector

`ABCA12` a numeric vector

`ABCC3` a numeric vector

`ABI1` a numeric vector

`ABRA` a numeric vector

`AC006059.2` a numeric vector

`AC008676.3` a numeric vector

`AC008764.4` a numeric vector

`AC010132.3` a numeric vector

`AC012651.1` a numeric vector

AC013477.1 a numeric vector

AC109583.1 a numeric vector

AC113348.2 a numeric vector

AC117457.1 a numeric vector

AC131160.1 a numeric vector

AC144573.1 a numeric vector

AC235565.2 a numeric vector

ACO2 a numeric vector

ACTC1 a numeric vector

ACTL9 a numeric vector

ACTRT2 a numeric vector

ADD3 a numeric vector

ADGRL3 a numeric vector

ADH7 a numeric vector

ADPRHL1 a numeric vector

ADRA2A a numeric vector

ADRA2B a numeric vector

AFMID a numeric vector

AKAP12 a numeric vector

AKAP14 a numeric vector

AKAP3 a numeric vector

AL139260.3 a numeric vector

ALG6 a numeric vector

ANGPTL6 a numeric vector

ANKRD20A1 a numeric vector

ANXA6 a numeric vector

ANXA8L1 a numeric vector

AOC2 a numeric vector

APOBEC1 a numeric vector

APOE a numeric vector

ARHGAP11B a numeric vector

ARHGAP12 a numeric vector

ARHGEF19 a numeric vector

ARL2.SNX15 a numeric vector

ARL6IP1 a numeric vector

ARPC4.TTLL3 a numeric vector

ASB4 a numeric vector

ASB5 a numeric vector

ASB6 a numeric vector

ASPM a numeric vector

ATP1A2 a numeric vector

ATP2B4 a numeric vector

AZGP1 a numeric vector

B3GAT2 a numeric vector

PI a numeric vector

Details

This is Test PI data.

Value

A data frame with columns X and Y.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Test_PI_data)
## maybe str(Test_PI_data)
## plot(Test_PI_data)
```

Test_results *Test Results for Survival Prediction*

Description

A data frame containing survival prediction results for test samples. The data includes actual risk group labels, predicted risk groups, probabilities for each class, and overall survival data for the test samples.

Usage

```
data(Test_results)
```

Format

A data frame with 18 observations and 8 variables:

Sample_ID Character vector with the unique sample identifier (e.g., "TCGA-E1-A7Z6-01").

Actual Factor indicating the actual risk group: "High_Risk" or "Low_Risk".

Predicted_Risk_Group Factor indicating the predicted risk group: "High_Risk" or "Low_Risk".

High_Risk_Prob Numeric value representing the probability of the sample being classified as High Risk.

Low_Risk_Prob Numeric value representing the probability of the sample being classified as Low Risk.

Prediction_Prob Numeric value representing the maximum class probability (confidence in prediction).

OS_month Integer representing the overall survival time in months.

OS_event Integer indicating the survival event: 1 = death, 0 = censored.

Source

The data was derived from TCGA (The Cancer Genome Atlas) using survival prediction models.

Test_Uni_sig_data *Test Uni sig data*

Description

This is Test Uni sig data.

Usage

```
data("Test_Uni_sig_data")
```

Format

A data frame with 18 observations on the following 209 variables.

`A2ML1` a numeric vector

`AADACL4` a numeric vector

`AAMDC` a numeric vector

`AAR2` a numeric vector

`ABCA12` a numeric vector

`ABCB4` a numeric vector

`ABCB5` a numeric vector

`ABCB6` a numeric vector

`ABCC3` a numeric vector

ABCC9 a numeric vector

ABCE1 a numeric vector

ABCF3 a numeric vector

ABHD12 a numeric vector

ABHD14B a numeric vector

ABLIM1 a numeric vector

ABLIM3 a numeric vector

ABT1 a numeric vector

AC004076.1 a numeric vector

AC005520.1 a numeric vector

AC005832.4 a numeric vector

AC006030.1 a numeric vector

AC008764.4 a numeric vector

AC010132.3 a numeric vector

AC013470.2 a numeric vector

AC027796.3 a numeric vector

AC097636.1 a numeric vector

AC106741.1 a numeric vector

AC131160.1 a numeric vector

AC132217.2 a numeric vector

AC144573.1 a numeric vector

ACAP2 a numeric vector

ACBD5 a numeric vector

ACE a numeric vector

ACMSD a numeric vector

ACO1 a numeric vector

ACO2 a numeric vector

ACP5 a numeric vector

ACRV1 a numeric vector

ACSBG1 a numeric vector

ACSM5 a numeric vector

ACSM6 a numeric vector

ACTG1 a numeric vector

ACTN1 a numeric vector

ACTR3 a numeric vector

ADAM12 a numeric vector

ADAM15 a numeric vector

ADAM19 a numeric vector

ADAM32 a numeric vector

ADAMTS18 a numeric vector

ADAMTS7 a numeric vector

ADAMTS8 a numeric vector

ADCK2 a numeric vector

ADCY2 a numeric vector

ADCY8 a numeric vector

ADD3 a numeric vector

ADGRB3 a numeric vector

ADGRD2 a numeric vector

ADGRE2 a numeric vector

ADGRE5 a numeric vector

ADGRG7 a numeric vector

ADGRL4 a numeric vector

ADGRV1 a numeric vector

ADH4 a numeric vector

ADHFE1 a numeric vector

ADK a numeric vector

ADNP a numeric vector

ADPRH a numeric vector

ADRB2 a numeric vector

ADRM1 a numeric vector

AEN a numeric vector

AFAP1L2 a numeric vector

AGAP1 a numeric vector

AGGF1 a numeric vector

AGPS a numeric vector

AGR3 a numeric vector

AGRN a numeric vector

AHCYL1 a numeric vector

AHNAK a numeric vector

AK2 a numeric vector

AK8 a numeric vector

AKAP3 a numeric vector

AKAP4 a numeric vector

AKAP6 a numeric vector

AKIP1 a numeric vector

AKR1C1 a numeric vector

AL121845.3 a numeric vector

AL160272.2 a numeric vector

AL365214.2 a numeric vector

AL391628.1 a numeric vector

AL445989.1 a numeric vector

AL591806.2 a numeric vector

AL669918.1 a numeric vector

ALDH9A1 a numeric vector

ALDOB a numeric vector

ALDOC a numeric vector

ALG10B a numeric vector

ALG2 a numeric vector

ALG3 a numeric vector

ALG6 a numeric vector

ALKBH3 a numeric vector

ALOX5AP a numeric vector

ALYREF a numeric vector

AMDHD1 a numeric vector

AMPD3 a numeric vector

ANGPTL2 a numeric vector

ANGPTL5 a numeric vector

ANKFY1 a numeric vector

ANKLE2 a numeric vector

ANKRD20A1 a numeric vector

ANKRD24 a numeric vector

ANKRD29 a numeric vector

ANKRD36 a numeric vector

ANKRD36C a numeric vector

ANO2 a numeric vector

ANPEP a numeric vector

ANXA1 a numeric vector

ANXA7 a numeric vector

AP003108.2 a numeric vector

AP3S1 a numeric vector

AP3S2 a numeric vector

APEH a numeric vector

APEX2 a numeric vector

APH1A a numeric vector

APLN a numeric vector

APOBEC3B a numeric vector

APOBEC3G a numeric vector

APOBR a numeric vector

APOE a numeric vector

APOL1 a numeric vector

APOL4 a numeric vector

APPBP2 a numeric vector

AQP10 a numeric vector

AQP7 a numeric vector

ARAP3 a numeric vector

ARF4 a numeric vector

ARFGAP2 a numeric vector

ARHGAP11A a numeric vector

ARHGAP11B a numeric vector

ARHGAP24 a numeric vector

ARHGAP32 a numeric vector

ARHGDIG a numeric vector

ARHGEF17 a numeric vector

ARHGEF19 a numeric vector

ARL1 a numeric vector

ARL15 a numeric vector

ARL2.SNX15 a numeric vector

ARL5C a numeric vector

ARL6IP6 a numeric vector

ARMC4 a numeric vector

ARMC6 a numeric vector

ARMC9 a numeric vector

ARPC3 a numeric vector

ARPC4 a numeric vector

ARPP21 a numeric vector

ARSA a numeric vector

ARSI a numeric vector

ARSL a numeric vector

ART4 a numeric vector

ASAH2 a numeric vector

ASAP1 a numeric vector

ASB12 a numeric vector

ASCC3 a numeric vector

ASF1B a numeric vector

ASIC4 a numeric vector

ASPH a numeric vector

ASPM a numeric vector

ATAD2 a numeric vector

ATAD5 a numeric vector

ATG9B a numeric vector

ATIC a numeric vector

ATP11A a numeric vector

ATP11C a numeric vector

ATP13A4 a numeric vector

ATP1B2 a numeric vector

ATP1B3 a numeric vector

ATP2A3 a numeric vector

ATP2B1 a numeric vector

ATP4B a numeric vector

ATP5F1D a numeric vector

ATP5MC2 a numeric vector

ATP5ME a numeric vector

ATP6V0A4 a numeric vector

ATP9B a numeric vector

ATR a numeric vector

ATRAID a numeric vector

ATRIP a numeric vector

ATXN7 a numeric vector

AUNIP a numeric vector

AURKA a numeric vector

AVPI1 a numeric vector

AWAT1 a numeric vector

AZU1 a numeric vector

B3GAT2 a numeric vector

B3GNT7 a numeric vector

B3GNT8 a numeric vector

B4GALNT2 a numeric vector

B4GALT3 a numeric vector

B4GALT7 a numeric vector

B4GAT1 a numeric vector

BACH2 a numeric vector

BAG3 a numeric vector

BAG5 a numeric vector

BAHD1 a numeric vector

BAIAP3 a numeric vector

BANK1 a numeric vector

BASP1 a numeric vector

BATF2 a numeric vector

BAX a numeric vector

BAZ1B a numeric vector

Details

This is Test Uni sig data.

Value

A data frame with columns X and Y.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Test_Uni_sig_data)
## maybe str(Test_Uni_sig_data)
## plot(Test_Uni_sig_data)
```

`tr_test_f` *Train-Test Split Function*

Description

This function splits a given dataset into training and testing sets based on a specified fraction.

Usage

```
tr_test_f(data, fraction)
```

Arguments

`data`	A data frame containing the dataset to be split.
`fraction`	A numeric value between 0 and 1 indicating the proportion of data to include in the training set.

Details

The function checks whether the input `data` is valid and whether the `fraction` is a number between 0 and 1. It then performs a random split of the dataset into training and testing sets.

Value

A list containing two data frames:

train_data A data frame containing the training set.

test_data A data frame containing the testing set.

Examples

```
# Example dataset
data <- data.frame(x = rnorm(100), y = rnorm(100))
fraction <- 0.7
result <- tr_test_f(data, fraction)
head(result$train_data)
head(result$test_data)
```

`Train_Clin` *Train Clin*

Description

This is Train Clin.

Usage

```
data("Train_Clin")
```

Format

A data frame with 158 observations on the following 20 variables.

`Age` a numeric vector

`subtype` a character vector

`gender` a character vector

`race` a character vector

`ajcc_pathologic_tumor_stage` a logical vector

`histological_type` a character vector

`histological_grade` a character vector

`treatment_outcome_first_course` a character vector

`radiation_treatment_adjuvant` a character vector

`sample_type` a character vector

`type` a character vector

`OS` a numeric vector

`OS.time` a numeric vector

`DSS` a numeric vector

`DSS.time` a numeric vector

`DFI` a numeric vector

`DFI.time` a numeric vector

`PFI` a numeric vector

`PFI.time` a numeric vector

`OS_month` a numeric vector

Details

This is Train Clin.

Value

A data frame with columns X and Y.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Train_Clin)
## maybe str(Train_Clin)
## plot(Train_Clin)
```

`Train_Data_Nomogram_input`

Train Data Nomogram input

Description

This is Train Data Nomogram input.

Usage

```
data("Train_Data_Nomogram_input")
```

Format

A data frame with 158 observations on the following 34 variables.

`Age` a numeric vector

`subtype` a character vector

`gender` a character vector

`race` a character vector

`ajcc_pathologic_tumor_stage` a logical vector

`histological_type` a character vector

`histological_grade` a character vector

`treatment_outcome_first_course` a character vector

`radiation_treatment_adjuvant` a character vector

`sample_type` a character vector

`type` a character vector

`OS` a numeric vector

`OS.time` a numeric vector

`DSS` a numeric vector

`DSS.time` a numeric vector

`DFI` a numeric vector

`DFI.time` a numeric vector

PFI a numeric vector

PFI.time a numeric vector

OS_month a numeric vector

OS_month a numeric vector

ALG6 a numeric vector

ARHGAP11A a numeric vector

DESI1 a numeric vector

GALNT7 a numeric vector

GJD3 a numeric vector

GPC1 a numeric vector

H2BC5 a numeric vector

HOXD12 a numeric vector

RNF185 a numeric vector

TANGO2 a numeric vector

UNG a numeric vector

ZNF648 a numeric vector

PI a numeric vector

Details

This is Train Data Nomogram input.

Value

A data frame with columns X and Y.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Train_Data_Nomogram_input)
## maybe str(Train_Data_Nomogram_input)
## plot(Train_Data_Nomogram_input)
```

train_FPKM *train FPKM*

Description

This is train FPKM.

Usage

```
data("train_FPKM")
```

Format

A data frame with 158 observations on the following 2025 variables.

`Age` a numeric vector

`subtype` a character vector

`gender` a character vector

`race` a character vector

`ajcc_pathologic_tumor_stage` a logical vector

`histological_type` a character vector

`histological_grade` a character vector

`treatment_outcome_first_course` a character vector

`radiation_treatment_adjuvant` a character vector

`sample_type` a character vector

`type` a character vector

`OS` a numeric vector

`OS.time` a numeric vector

`DSS` a numeric vector

`DSS.time` a numeric vector

`DFI` a numeric vector

`DFI.time` a numeric vector

`PFI` a numeric vector

`PFI.time` a numeric vector

`OS_month` a numeric vector

`A1BG` a numeric vector

`A1CF` a numeric vector

`A2M` a numeric vector

`A2ML1` a numeric vector

`A3GALT2` a numeric vector

A4GALT a numeric vector

A4GNT a numeric vector

AAAS a numeric vector

AACS a numeric vector

AADAC a numeric vector

AADACL2 a numeric vector

AADACL3 a numeric vector

AADACL4 a numeric vector

AADAT a numeric vector

AAGAB a numeric vector

AAK1 a numeric vector

AAMDC a numeric vector

AAMP a numeric vector

AANAT a numeric vector

AAR2 a numeric vector

AARD a numeric vector

AARS1 a numeric vector

AARS2 a numeric vector

AARSD1 a numeric vector

AASDH a numeric vector

AASDHPPT a numeric vector

AASS a numeric vector

AATF a numeric vector

AATK a numeric vector

ABAT a numeric vector

ABCA1 a numeric vector

ABCA10 a numeric vector

ABCA12 a numeric vector

ABCA13 a numeric vector

ABCA2 a numeric vector

ABCA3 a numeric vector

ABCA4 a numeric vector

ABCA5 a numeric vector

ABCA6 a numeric vector

ABCA7 a numeric vector

ABCA8 a numeric vector

ABCA9 a numeric vector

ABCB1 a numeric vector

ABCB10 a numeric vector

ABCB11 a numeric vector

ABCB4 a numeric vector

ABCB5 a numeric vector

ABCB6 a numeric vector

ABCB7 a numeric vector

ABCB8 a numeric vector

ABCB9 a numeric vector

ABCC1 a numeric vector

ABCC10 a numeric vector

ABCC11 a numeric vector

ABCC12 a numeric vector

ABCC2 a numeric vector

ABCC3 a numeric vector

ABCC4 a numeric vector

ABCC5 a numeric vector

ABCC6 a numeric vector

ABCC8 a numeric vector

ABCC9 a numeric vector

ABCD1 a numeric vector

ABCD2 a numeric vector

ABCD3 a numeric vector

ABCD4 a numeric vector

ABCE1 a numeric vector

ABCF1 a numeric vector

ABCF2 a numeric vector

ABCF2.H2BE1 a numeric vector

ABCF3 a numeric vector

ABCG1 a numeric vector

ABCG2 a numeric vector

ABCG4 a numeric vector

ABCG5 a numeric vector

ABCG8 a numeric vector

ABHD1 a numeric vector

ABHD10 a numeric vector

ABHD11 a numeric vector

ABHD12 a numeric vector

ABHD12B a numeric vector

ABHD13 a numeric vector

ABHD14A a numeric vector

ABHD14A.ACY1 a numeric vector

ABHD14B a numeric vector

ABHD15 a numeric vector

ABHD16A a numeric vector

ABHD16B a numeric vector

ABHD17A a numeric vector

ABHD17B a numeric vector

ABHD17C a numeric vector

ABHD18 a numeric vector

ABHD2 a numeric vector

ABHD3 a numeric vector

ABHD4 a numeric vector

ABHD5 a numeric vector

ABHD6 a numeric vector

ABHD8 a numeric vector

ABI1 a numeric vector

ABI2 a numeric vector

ABI3 a numeric vector

ABI3BP a numeric vector

ABITRAM a numeric vector

ABL1 a numeric vector

ABL2 a numeric vector

ABLIM1 a numeric vector

ABLIM2 a numeric vector

ABLIM3 a numeric vector

ABO a numeric vector

ABR a numeric vector

ABRA a numeric vector

ABRACL a numeric vector

ABRAXAS1 a numeric vector

ABRAXAS2 a numeric vector

ABT1 a numeric vector

ABTB1 a numeric vector

ABTB2 a numeric vector

AC000093.1 a numeric vector

AC000120.2 a numeric vector

AC000120.3 a numeric vector

AC001226.2 a numeric vector

AC002094.3 a numeric vector

AC002310.4 a numeric vector

AC002456.2 a numeric vector

AC002985.1 a numeric vector

AC002996.1 a numeric vector

AC003002.1 a numeric vector

AC003002.2 a numeric vector

AC003002.3 a numeric vector

AC003005.1 a numeric vector

AC003006.1 a numeric vector

AC003688.1 a numeric vector

AC004076.1 a numeric vector

AC004080.3 a numeric vector

AC004223.3 a numeric vector

AC004233.4 a numeric vector

AC004593.2 a numeric vector

AC004687.2 a numeric vector

AC004691.2 a numeric vector

AC004706.3 a numeric vector

AC004805.1 a numeric vector

AC004832.3 a numeric vector

AC004922.1 a numeric vector

AC004997.1 a numeric vector

AC005020.2 a numeric vector

AC005041.1 a numeric vector

AC005154.5 a numeric vector

AC005192.1 a numeric vector

AC005258.1 a numeric vector

AC005324.2 a numeric vector

AC005324.3 a numeric vector

AC005520.1 a numeric vector

AC005551.1 a numeric vector

AC005670.2 a numeric vector
AC005697.1 a numeric vector
AC005702.1 a numeric vector
AC005726.1 a numeric vector
AC005832.4 a numeric vector
AC005833.1 a numeric vector
AC005837.2 a numeric vector
AC005943.1 a numeric vector
AC006030.1 a numeric vector
AC006059.2 a numeric vector
AC006064.6 a numeric vector
AC006254.1 a numeric vector
AC006486.1 a numeric vector
AC006486.3 a numeric vector
AC006538.2 a numeric vector
AC006978.2 a numeric vector
AC007040.2 a numeric vector
AC007192.1 a numeric vector
AC007326.4 a numeric vector
AC007375.2 a numeric vector
AC007731.4 a numeric vector
AC007846.2 a numeric vector
AC007906.2 a numeric vector
AC007998.2 a numeric vector
AC008012.1 a numeric vector
AC008073.3 a numeric vector
AC008162.2 a numeric vector
AC008397.1 a numeric vector
AC008397.2 a numeric vector
AC008403.1 a numeric vector
AC008481.3 a numeric vector
AC008537.1 a numeric vector
AC008575.1 a numeric vector
AC008581.2 a numeric vector
AC008676.3 a numeric vector
AC008687.1 a numeric vector
AC008687.4 a numeric vector

AC008687.8 a numeric vector
AC008695.1 a numeric vector
AC008750.7 a numeric vector
AC008758.1 a numeric vector
AC008758.5 a numeric vector
AC008758.6 a numeric vector
AC008763.2 a numeric vector
AC008763.3 a numeric vector
AC008763.4 a numeric vector
AC008764.1 a numeric vector
AC008764.4 a numeric vector
AC008770.1 a numeric vector
AC008770.2 a numeric vector
AC008770.4 a numeric vector
AC008878.1 a numeric vector
AC008878.2 a numeric vector
AC008878.3 a numeric vector
AC008982.1 a numeric vector
AC009070.1 a numeric vector
AC009133.6 a numeric vector
AC009163.3 a numeric vector
AC009163.5 a numeric vector
AC009412.1 a numeric vector
AC009690.1 a numeric vector
AC009690.3 a numeric vector
AC009779.3 a numeric vector
AC009879.2 a numeric vector
AC009879.3 a numeric vector
AC010132.3 a numeric vector
AC010197.2 a numeric vector
AC010255.2 a numeric vector
AC010319.2 a numeric vector
AC010323.1 a numeric vector
AC010325.1 a numeric vector
AC010326.2 a numeric vector
AC010327.2 a numeric vector
AC010422.3 a numeric vector

AC010422.5 a numeric vector

AC010422.6 a numeric vector

AC010422.8 a numeric vector

AC010463.1 a numeric vector

AC010522.1 a numeric vector

AC010531.1 a numeric vector

AC010542.3 a numeric vector

AC010547.4 a numeric vector

AC010615.4 a numeric vector

AC010616.1 a numeric vector

AC010619.1 a numeric vector

AC010646.1 a numeric vector

AC010973.3 a numeric vector

AC010980.1 a numeric vector

AC011005.1 a numeric vector

AC011330.3 a numeric vector

AC011448.1 a numeric vector

AC011452.1 a numeric vector

AC011455.2 a numeric vector

AC011462.1 a numeric vector

AC011473.4 a numeric vector

AC011479.1 a numeric vector

AC011498.4 a numeric vector

AC011499.1 a numeric vector

AC011511.1 a numeric vector

AC011511.4 a numeric vector

AC011530.1 a numeric vector

AC012184.2 a numeric vector

AC012213.5 a numeric vector

AC012254.2 a numeric vector

AC012309.1 a numeric vector

AC012488.2 a numeric vector

AC012531.3 a numeric vector

AC012651.1 a numeric vector

AC013271.1 a numeric vector

AC013394.1 a numeric vector

AC013470.2 a numeric vector

AC013477.1 a numeric vector

AC013489.1 a numeric vector

AC013717.1 a numeric vector

AC015688.4 a numeric vector

AC015802.6 a numeric vector

AC015813.2 a numeric vector

AC017083.3 a numeric vector

AC018362.3 a numeric vector

AC018512.1 a numeric vector

AC018523.2 a numeric vector

AC018630.4 a numeric vector

AC018709.1 a numeric vector

AC018755.2 a numeric vector

AC018809.3 a numeric vector

AC019117.3 a numeric vector

AC019257.8 a numeric vector

AC020636.2 a numeric vector

AC020765.6 a numeric vector

AC020907.6 a numeric vector

AC020909.1 a numeric vector

AC020915.4 a numeric vector

AC020922.1 a numeric vector

AC021072.1 a numeric vector

AC021087.5 a numeric vector

AC021660.3 a numeric vector

AC022335.1 a numeric vector

AC022384.1 a numeric vector

AC022400.5 a numeric vector

AC022414.1 a numeric vector

AC022415.2 a numeric vector

AC022506.1 a numeric vector

AC022826.2 a numeric vector

AC023055.1 a numeric vector

AC024592.3 a numeric vector

AC024598.1 a numeric vector

AC025165.3 a numeric vector

AC025165.6 a numeric vector

AC025263.2 a numeric vector
AC025283.2 a numeric vector
AC025287.4 a numeric vector
AC026316.4 a numeric vector
AC026464.1 a numeric vector
AC026464.3 a numeric vector
AC026464.4 a numeric vector
AC026464.6 a numeric vector
AC026786.1 a numeric vector
AC026954.2 a numeric vector
AC027644.4 a numeric vector
AC027796.3 a numeric vector
AC034102.2 a numeric vector
AC034228.3 a numeric vector
AC036214.3 a numeric vector
AC037459.1 a numeric vector
AC040162.1 a numeric vector
AC046185.1 a numeric vector
AC048338.1 a numeric vector
AC048338.2 a numeric vector
AC053503.6 a numeric vector
AC055811.2 a numeric vector
AC055839.2 a numeric vector
AC058822.1 a numeric vector
AC063943.2 a numeric vector
AC067968.1 a numeric vector
AC068234.1 a numeric vector
AC068533.4 a numeric vector
AC068547.1 a numeric vector
AC068580.4 a numeric vector
AC068631.2 a numeric vector
AC068775.1 a numeric vector
AC068831.6 a numeric vector
AC068870.4 a numeric vector
AC068896.1 a numeric vector
AC068946.1 a numeric vector
AC068946.2 a numeric vector

AC069257.3 a numeric vector
AC069288.1 a numeric vector
AC069368.1 a numeric vector
AC069444.2 a numeric vector
AC069503.2 a numeric vector
AC069544.2 a numeric vector
AC072022.2 a numeric vector
AC073082.1 a numeric vector
AC073111.3 a numeric vector
AC073283.3 a numeric vector
AC073508.2 a numeric vector
AC073585.1 a numeric vector
AC073610.2 a numeric vector
AC073612.1 a numeric vector
AC073896.1 a numeric vector
AC074143.1 a numeric vector
AC078815.1 a numeric vector
AC078927.1 a numeric vector
AC079447.1 a numeric vector
AC079594.1 a numeric vector
AC079741.2 a numeric vector
AC083800.1 a numeric vector
AC083977.1 a numeric vector
AC084337.2 a numeric vector
AC084756.2 a numeric vector
AC087289.3 a numeric vector
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ANKRD53 a numeric vector

ANKRD54 a numeric vector

ANKRD55 a numeric vector

ANKRD6 a numeric vector

ANKRD60 a numeric vector

ANKRD61 a numeric vector

ANKRD62 a numeric vector

ANKRD63 a numeric vector

ANKRD65 a numeric vector

ANKRD66 a numeric vector

ANKRD7 a numeric vector

ANKRD9 a numeric vector

ANKS1A a numeric vector

ANKS1B a numeric vector

ANKS3 a numeric vector

ANKS4B a numeric vector

ANKS6 a numeric vector

ANKUB1 a numeric vector

ANKZF1 a numeric vector

ANLN a numeric vector

ANO1 a numeric vector

ANO10 a numeric vector

ANO2 a numeric vector

ANO3 a numeric vector

ANO4 a numeric vector

ANO5 a numeric vector

ANO6 a numeric vector

ANO7 a numeric vector

ANO8 a numeric vector

ANO9 a numeric vector

ANOS1 a numeric vector

ANP32A a numeric vector

ANP32B a numeric vector

ANP32D a numeric vector

ANP32E a numeric vector

ANPEP a numeric vector

ANTKMT a numeric vector

ANTXR1 a numeric vector

ANTXR2 a numeric vector

ANTXRL a numeric vector

ANXA1 a numeric vector

ANXA10 a numeric vector

ANXA11 a numeric vector

ANXA13 a numeric vector

ANXA2 a numeric vector

ANXA2R a numeric vector

ANXA3 a numeric vector

ANXA4 a numeric vector

ANXA5 a numeric vector

ANXA6 a numeric vector

ANXA7 a numeric vector

ANXA8 a numeric vector

ANXA8L1 a numeric vector

ANXA9 a numeric vector

AOAH a numeric vector

AOC1 a numeric vector

AOC2 a numeric vector

AOC3 a numeric vector

AOPEP a numeric vector

AOX1 a numeric vector

AP000295.1 a numeric vector

AP000311.1 a numeric vector

AP000350.4 a numeric vector

AP000356.5 a numeric vector

AP000471.1 a numeric vector

AP000721.1 a numeric vector

AP000781.2 a numeric vector

AP000812.3 a numeric vector

AP000812.4 a numeric vector

AP000944.5 a numeric vector

AP001054.1 a numeric vector

AP001267.5 a numeric vector

AP001273.2 a numeric vector

AP001453.3 a numeric vector

AP001458.2 a numeric vector

AP001781.2 a numeric vector

AP001931.1 a numeric vector

AP001931.2 a numeric vector

AP002373.1 a numeric vector

AP002495.1 a numeric vector

AP002512.3 a numeric vector

AP002748.5 a numeric vector

AP002884.2 a numeric vector

AP002990.1 a numeric vector

AP003071.5 a numeric vector

AP003108.2 a numeric vector

AP003419.1 a numeric vector

AP006621.6 a numeric vector

AP1AR a numeric vector

AP1B1 a numeric vector

AP1G1 a numeric vector

AP1G2 a numeric vector

AP1M1 a numeric vector

AP1M2 a numeric vector

AP1S1 a numeric vector

AP1S2 a numeric vector

AP1S3 a numeric vector

AP2A1 a numeric vector

AP2A2 a numeric vector

AP2B1 a numeric vector

AP2M1 a numeric vector

AP2S1 a numeric vector

AP3B1 a numeric vector

AP3B2 a numeric vector

AP3D1 a numeric vector

AP3M1 a numeric vector

AP3M2 a numeric vector

AP3S1 a numeric vector

AP3S2 a numeric vector

AP4B1 a numeric vector

AP4E1 a numeric vector

AP4M1 a numeric vector

AP4S1 a numeric vector

AP5B1 a numeric vector

AP5M1 a numeric vector

AP5S1 a numeric vector

AP5Z1 a numeric vector

APAF1 a numeric vector

APBA1 a numeric vector

APBA2 a numeric vector

APBA3 a numeric vector

APBB1 a numeric vector

APBB1IP a numeric vector

APBB2 a numeric vector

APBB3 a numeric vector

APC a numeric vector

APC2 a numeric vector

APCDD1 a numeric vector

APCDD1L a numeric vector

APCS a numeric vector

APEH a numeric vector

APELA a numeric vector

APEX1 a numeric vector

APEX2 a numeric vector

APH1A a numeric vector

APH1B a numeric vector

API5 a numeric vector

APIP a numeric vector

APLF a numeric vector

APLN a numeric vector

APLNR a numeric vector

APLP1 a numeric vector

APLP2 a numeric vector

APMAP a numeric vector

APOA1 a numeric vector

APOA2 a numeric vector

APOA4 a numeric vector

APOA5 a numeric vector

APOB a numeric vector

APOBEC1 a numeric vector

APOBEC2 a numeric vector

APOBEC3A a numeric vector

APOBEC3B a numeric vector

APOBEC3C a numeric vector

APOBEC3D a numeric vector

APOBEC3F a numeric vector

APOBEC3G a numeric vector

APOBEC3H a numeric vector

APOBEC4 a numeric vector

APOBR a numeric vector

APOC1 a numeric vector

APOC2 a numeric vector

APOC3 a numeric vector

APOC4 a numeric vector

APOC4.APOC2 a numeric vector

APOD a numeric vector

APOE a numeric vector

APOF a numeric vector

APOH a numeric vector

APOL1 a numeric vector

APOL2 a numeric vector

APOL3 a numeric vector

APOL4 a numeric vector

APOL5 a numeric vector

APOL6 a numeric vector

APOLD1 a numeric vector

APOM a numeric vector

APOO a numeric vector

APOOL a numeric vector

APP a numeric vector

APPBP2 a numeric vector

APPL1 a numeric vector

APPL2 a numeric vector

APRT a numeric vector

APTX a numeric vector

AQP1 a numeric vector

AQP10 a numeric vector

AQP11 a numeric vector

AQP12A a numeric vector

AQP12B a numeric vector

AQP2 a numeric vector

AQP3 a numeric vector

AQP4 a numeric vector

AQP5 a numeric vector

AQP6 a numeric vector

AQP7 a numeric vector

AQP8 a numeric vector

AQP9 a numeric vector

AQR a numeric vector

AR a numeric vector

ARAF a numeric vector

ARAP1 a numeric vector

ARAP2 a numeric vector

ARAP3 a numeric vector

ARC a numeric vector

ARCN1 a numeric vector

AREG a numeric vector

AREL1 a numeric vector

ARF1 a numeric vector

ARF3 a numeric vector

ARF4 a numeric vector

ARF5 a numeric vector

ARF6 a numeric vector

ARFGAP1 a numeric vector

ARFGAP2 a numeric vector

ARFGAP3 a numeric vector

ARFGEF1 a numeric vector

ARFGEF2 a numeric vector

ARFGEF3 a numeric vector

ARFIP1 a numeric vector

ARFIP2 a numeric vector

ARFRP1 a numeric vector

ARG1 a numeric vector

ARG2 a numeric vector

ARGFX a numeric vector

ARGLU1 a numeric vector

ARHGAP1 a numeric vector

ARHGAP10 a numeric vector

ARHGAP11A a numeric vector

ARHGAP11B a numeric vector

ARHGAP12 a numeric vector

ARHGAP15 a numeric vector

ARHGAP17 a numeric vector

ARHGAP18 a numeric vector

ARHGAP19 a numeric vector

ARHGAP19.SLIT1 a numeric vector

ARHGAP20 a numeric vector

ARHGAP21 a numeric vector

ARHGAP22 a numeric vector

ARHGAP23 a numeric vector

ARHGAP24 a numeric vector

ARHGAP25 a numeric vector

ARHGAP26 a numeric vector

ARHGAP27 a numeric vector

ARHGAP28 a numeric vector

ARHGAP29 a numeric vector

ARHGAP30 a numeric vector

ARHGAP31 a numeric vector

ARHGAP32 a numeric vector

ARHGAP33 a numeric vector

ARHGAP35 a numeric vector

ARHGAP36 a numeric vector

ARHGAP39 a numeric vector

ARHGAP4 a numeric vector

ARHGAP40 a numeric vector

ARHGAP42 a numeric vector

ARHGAP44 a numeric vector

ARHGAP45 a numeric vector

ARHGAP5 a numeric vector

ARHGAP6 a numeric vector

ARHGAP8 a numeric vector

ARHGAP9 a numeric vector

ARHGDIA a numeric vector

ARHGDIB a numeric vector

ARHGDIG a numeric vector

ARHGEF1 a numeric vector

ARHGEF10 a numeric vector

ARHGEF10L a numeric vector

ARHGEF11 a numeric vector

ARHGEF12 a numeric vector

ARHGEF15 a numeric vector

ARHGEF16 a numeric vector

ARHGEF17 a numeric vector

ARHGEF18 a numeric vector

ARHGEF19 a numeric vector

ARHGEF2 a numeric vector

ARHGEF25 a numeric vector

ARHGEF26 a numeric vector

ARHGEF28 a numeric vector

ARHGEF3 a numeric vector

ARHGEF33 a numeric vector

ARHGEF35 a numeric vector

ARHGEF37 a numeric vector

ARHGEF38 a numeric vector

ARHGEF39 a numeric vector

ARHGEF4 a numeric vector

ARHGEF40 a numeric vector

ARHGEF5 a numeric vector

ARHGEF6 a numeric vector

ARHGEF7 a numeric vector

ARHGEF9 a numeric vector

ARID1A a numeric vector

ARID1B a numeric vector

ARID2 a numeric vector

ARID3A a numeric vector

ARID3B a numeric vector

ARID3BP1 a numeric vector

ARID3C a numeric vector

ARID4A a numeric vector

ARID4B a numeric vector

ARID5A a numeric vector

ARID5B a numeric vector

ARIH1 a numeric vector

ARIH2 a numeric vector

ARL1 a numeric vector

ARL10 a numeric vector

ARL11 a numeric vector

ARL13A a numeric vector

ARL13B a numeric vector

ARL14 a numeric vector

ARL14EP a numeric vector

ARL14EPL a numeric vector

ARL15 a numeric vector

ARL16 a numeric vector

ARL17A a numeric vector

ARL17B a numeric vector

ARL2 a numeric vector

ARL2.SNX15 a numeric vector

ARL2BP a numeric vector

ARL3 a numeric vector

ARL4A a numeric vector

ARL4C a numeric vector

ARL4D a numeric vector

ARL5A a numeric vector

ARL5B a numeric vector

ARL5C a numeric vector

ARL6 a numeric vector

ARL6IP1 a numeric vector

ARL6IP4 a numeric vector

ARL6IP5 a numeric vector

ARL6IP6 a numeric vector

ARL8A a numeric vector

ARL8B a numeric vector

ARL9 a numeric vector

ARMC1 a numeric vector

ARMC10 a numeric vector

ARMC12 a numeric vector

ARMC2 a numeric vector

ARMC3 a numeric vector

ARMC4 a numeric vector

ARMC5 a numeric vector

ARMC6 a numeric vector

ARMC7 a numeric vector

ARMC8 a numeric vector

ARMC9 a numeric vector

ARMCX1 a numeric vector

ARMCX2 a numeric vector

ARMCX3 a numeric vector

ARMCX4 a numeric vector

ARMCX5 a numeric vector

ARMCX5.GPRASP2 a numeric vector

ARMCX6 a numeric vector

ARMH1 a numeric vector

ARMH2 a numeric vector

ARMH3 a numeric vector

ARMH4 a numeric vector

ARMS2 a numeric vector

ARMT1 a numeric vector

ARNT a numeric vector

ARNT2 a numeric vector

ARNTL a numeric vector

ARNTL2 a numeric vector

ARPC1A a numeric vector

ARPC1B a numeric vector

ARPC2 a numeric vector

ARPC3 a numeric vector

ARPC4 a numeric vector

ARPC4.TTLL3 a numeric vector

ARPC5 a numeric vector

ARPC5L a numeric vector

ARPIN a numeric vector

ARPIN.AP3S2 a numeric vector

ARPP19 a numeric vector

ARPP21 a numeric vector

ARR3 a numeric vector

ARRB1 a numeric vector

ARRB2 a numeric vector

ARRDC1 a numeric vector

ARRDC2 a numeric vector

ARRDC3 a numeric vector

ARRDC4 a numeric vector

ARRDC5 a numeric vector

ARSA a numeric vector

ARSB a numeric vector

ARSD a numeric vector

ARSF a numeric vector

ARSG a numeric vector

ARSH a numeric vector

ARSI a numeric vector

ARSJ a numeric vector

ARSK a numeric vector

ARSL a numeric vector

ART1 a numeric vector

ART3 a numeric vector

ART4 a numeric vector

ART5 a numeric vector

ARTN a numeric vector

ARV1 a numeric vector

ARVCF a numeric vector

ARX a numeric vector

AS3MT a numeric vector

ASAH1 a numeric vector

ASAH2 a numeric vector

ASAH2B a numeric vector

ASAP1 a numeric vector

ASAP2 a numeric vector

ASAP3 a numeric vector

ASB1 a numeric vector

ASB10 a numeric vector

ASB11 a numeric vector

ASB12 a numeric vector

ASB13 a numeric vector

ASB14 a numeric vector

ASB15 a numeric vector

ASB16 a numeric vector

ASB17 a numeric vector

ASB18 a numeric vector

ASB2 a numeric vector

ASB3 a numeric vector

ASB4 a numeric vector

ASB5 a numeric vector

ASB6 a numeric vector

ASB7 a numeric vector

ASB8 a numeric vector

ASB9 a numeric vector

ASCC1 a numeric vector

ASCC2 a numeric vector

ASCC3 a numeric vector

ASCL1 a numeric vector

ASCL2 a numeric vector

ASCL3 a numeric vector

ASCL4 a numeric vector

ASCL5 a numeric vector

ASDURF a numeric vector

ASF1A a numeric vector

ASF1B a numeric vector

ASGR1 a numeric vector

ASGR2 a numeric vector

ASH1L a numeric vector

ASH2L a numeric vector

ASIC1 a numeric vector

ASIC2 a numeric vector

ASIC3 a numeric vector

ASIC4 a numeric vector

ASIC5 a numeric vector

ASIP a numeric vector

ASL a numeric vector

ASMT a numeric vector

ASMTL a numeric vector

ASNS a numeric vector

ASNSD1 a numeric vector

ASPA a numeric vector

ASPDH a numeric vector

ASPG a numeric vector

ASPH a numeric vector

ASPHD1 a numeric vector

ASPHD2 a numeric vector

ASPM a numeric vector

ASPN a numeric vector

ASPRV1 a numeric vector

ASPSCR1 a numeric vector

ASRGL1 a numeric vector

ASS1 a numeric vector

ASTE1 a numeric vector

ASTL a numeric vector

ASTN1 a numeric vector

ASTN2 a numeric vector

ASXL1 a numeric vector

ASXL2 a numeric vector

ASXL3 a numeric vector

ASZ1 a numeric vector

ATAD1 a numeric vector

ATAD2 a numeric vector

ATAD2B a numeric vector

ATAD3A a numeric vector

ATAD3B a numeric vector

ATAD3C a numeric vector

ATAD5 a numeric vector

ATAT1 a numeric vector

ATCAY a numeric vector

ATE1 a numeric vector

ATF1 a numeric vector

ATF2 a numeric vector

ATF3 a numeric vector

ATF4 a numeric vector

ATF5 a numeric vector

ATF6 a numeric vector

ATF6B a numeric vector

ATF7 a numeric vector

ATF7.NPFF a numeric vector

ATF7IP a numeric vector

ATF7IP2 a numeric vector

ATG10 a numeric vector

ATG101 a numeric vector

ATG12 a numeric vector

ATG13 a numeric vector

ATG14 a numeric vector

ATG16L1 a numeric vector

ATG16L2 a numeric vector

ATG2A a numeric vector

ATG2B a numeric vector

ATG3 a numeric vector

ATG4A a numeric vector

ATG4B a numeric vector

ATG4C a numeric vector

ATG4D a numeric vector

ATG5 a numeric vector

ATG7 a numeric vector

ATG9A a numeric vector

ATG9B a numeric vector

ATIC a numeric vector

ATL1 a numeric vector

ATL2 a numeric vector

ATL3 a numeric vector

ATM a numeric vector

ATMIN a numeric vector

ATN1 a numeric vector

ATOH1 a numeric vector

ATOH7 a numeric vector

ATOH8 a numeric vector

ATOX1 a numeric vector

ATP10A a numeric vector

ATP10B a numeric vector

ATP10D a numeric vector

ATP11A a numeric vector

ATP11B a numeric vector

ATP11C a numeric vector

ATP12A a numeric vector

ATP13A1 a numeric vector

ATP13A2 a numeric vector

ATP13A3 a numeric vector

ATP13A4 a numeric vector

ATP13A5 a numeric vector

ATP1A1 a numeric vector

ATP1A2 a numeric vector

ATP1A3 a numeric vector

ATP1A4 a numeric vector

ATP1B1 a numeric vector

ATP1B2 a numeric vector

ATP1B3 a numeric vector

ATP1B4 a numeric vector

ATP23 a numeric vector

ATP2A1 a numeric vector

ATP2A2 a numeric vector

ATP2A3 a numeric vector

ATP2B1 a numeric vector

ATP2B2 a numeric vector

ATP2B3 a numeric vector

ATP2B4 a numeric vector

ATP2C1 a numeric vector

ATP2C2 a numeric vector

ATP4A a numeric vector

ATP4B a numeric vector

ATP5F1A a numeric vector

ATP5F1B a numeric vector

ATP5F1C a numeric vector

ATP5F1D a numeric vector

ATP5F1E a numeric vector

ATP5IF1 a numeric vector

ATP5MC1 a numeric vector

ATP5MC2 a numeric vector

ATP5MC3 a numeric vector

ATP5MD a numeric vector

ATP5ME a numeric vector

ATP5MF a numeric vector

ATP5MF.PTCD1 a numeric vector

ATP5MG a numeric vector

ATP5MGL a numeric vector

ATP5MPL a numeric vector

ATP5PB a numeric vector

ATP5PD a numeric vector

ATP5PF a numeric vector

ATP5PO a numeric vector

ATP6AP1 a numeric vector

ATP6AP1L a numeric vector

ATP6AP2 a numeric vector

ATP6V0A1 a numeric vector

ATP6V0A2 a numeric vector

ATP6V0A4 a numeric vector

ATP6V0B a numeric vector

ATP6V0C a numeric vector

ATP6V0D1 a numeric vector

ATP6V0D2 a numeric vector

ATP6V0E1 a numeric vector

ATP6V0E2 a numeric vector

ATP6V1A a numeric vector

ATP6V1B1 a numeric vector

ATP6V1B2 a numeric vector

ATP6V1C1 a numeric vector

ATP6V1C2 a numeric vector

ATP6V1D a numeric vector

ATP6V1E1 a numeric vector

ATP6V1E2 a numeric vector

ATP6V1F a numeric vector

ATP6V1FNB a numeric vector

ATP6V1G1 a numeric vector

ATP6V1G2 a numeric vector

ATP6V1G2.DDX39B a numeric vector

ATP6V1G3 a numeric vector

ATP6V1H a numeric vector

ATP7A a numeric vector

ATP7B a numeric vector

ATP8A1 a numeric vector

ATP8A2 a numeric vector

ATP8B1 a numeric vector

ATP8B2 a numeric vector

ATP8B3 a numeric vector

ATP8B4 a numeric vector

ATP9A a numeric vector

ATP9B a numeric vector

ATPAF1 a numeric vector

ATPAF2 a numeric vector

ATPSCKMT a numeric vector

ATR a numeric vector

ATRAID a numeric vector

ATRIP a numeric vector

ATRN a numeric vector

ATRNL1 a numeric vector

ATRX a numeric vector

ATXN1 a numeric vector

ATXN10 a numeric vector

ATXN1L a numeric vector

ATXN2 a numeric vector

ATXN2L a numeric vector

ATXN3 a numeric vector

ATXN3L a numeric vector

ATXN7 a numeric vector

ATXN7L1 a numeric vector

ATXN7L2 a numeric vector

ATXN7L3 a numeric vector

ATXN7L3B a numeric vector

AUH a numeric vector

AUNIP a numeric vector

AUP1 a numeric vector

AURKA a numeric vector

AURKAIP1 a numeric vector

AURKB a numeric vector

AURKC a numeric vector

AUTS2 a numeric vector

AVEN a numeric vector

AVIL a numeric vector

AVL9 a numeric vector

AVP a numeric vector

AVPI1 a numeric vector

AVPR1A a numeric vector

AVPR1B a numeric vector

AVPR2 a numeric vector

AWAT1 a numeric vector

AWAT2 a numeric vector

AXDND1 a numeric vector

AXIN1 a numeric vector

AXIN2 a numeric vector

AXL a numeric vector

AZGP1 a numeric vector

AZI2 a numeric vector

AZIN1 a numeric vector

AZIN2 a numeric vector

AZU1 a numeric vector

B2M a numeric vector

B3GALNT1 a numeric vector

B3GALNT2 a numeric vector

B3GALT1 a numeric vector

B3GALT2 a numeric vector

B3GALT4 a numeric vector

B3GALT5 a numeric vector

B3GALT6 a numeric vector

B3GAT1 a numeric vector

B3GAT2 a numeric vector

B3GAT3 a numeric vector

B3GLCT a numeric vector

B3GNT10 a numeric vector

B3GNT2 a numeric vector

B3GNT3 a numeric vector

B3GNT4 a numeric vector

B3GNT5 a numeric vector

B3GNT6 a numeric vector

B3GNT7 a numeric vector

B3GNT8 a numeric vector

B3GNT9 a numeric vector

B3GNTL1 a numeric vector

B4GALNT1 a numeric vector

B4GALNT2 a numeric vector

B4GALNT3 a numeric vector

B4GALNT4 a numeric vector

B4GALT1 a numeric vector

B4GALT2 a numeric vector

B4GALT3 a numeric vector

B4GALT4 a numeric vector

B4GALT5 a numeric vector

B4GALT6 a numeric vector

B4GALT7 a numeric vector

B4GAT1 a numeric vector

B9D1 a numeric vector

B9D2 a numeric vector

BAALC a numeric vector

BAAT a numeric vector

BABAM1 a numeric vector
BABAM2 a numeric vector
BACE1 a numeric vector
BACE2 a numeric vector
BACH1 a numeric vector
BACH2 a numeric vector
BAD a numeric vector
BAG1 a numeric vector
BAG2 a numeric vector
BAG3 a numeric vector
BAG4 a numeric vector
BAG5 a numeric vector
BAG6 a numeric vector
BAHCC1 a numeric vector
BAHD1 a numeric vector
BAIAP2 a numeric vector
BAIAP2L1 a numeric vector
BAIAP2L2 a numeric vector
BAIAP3 a numeric vector
BAK1 a numeric vector
BAMBI a numeric vector
BANF1 a numeric vector
BANF2 a numeric vector
BANK1 a numeric vector
BANP a numeric vector
BAP1 a numeric vector
BARD1 a numeric vector
BARHL1 a numeric vector
BARHL2 a numeric vector
BARX1 a numeric vector
BARX2 a numeric vector
BASP1 a numeric vector
BATF a numeric vector
BATF2 a numeric vector
BATF3 a numeric vector
BAX a numeric vector
BAZ1A a numeric vector
BAZ1B a numeric vector
BAZ2A a numeric vector

Details

This is train FPKM.

Value

A data frame with columns X and Y.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(train_FPKM)
## maybe str(train_FPKM)
```

`Train_Norm_data` *Train Norm data*

Description

This is Train Norm data.

Usage

```
data("Train_Norm_data")
```

Format

A data frame with 158 observations on the following 2025 variables.

`Age` a numeric vector

`subtype` a character vector

`gender` a character vector

`race` a character vector

`ajcc_pathologic_tumor_stage` a logical vector

`histological_type` a character vector

`histological_grade` a character vector

`treatment_outcome_first_course` a character vector

`radiation_treatment_adjuvant` a character vector

`sample_type` a character vector

`type` a character vector

`OS` a numeric vector

`OS.time` a numeric vector

DSS a numeric vector

DSS.time a numeric vector

DFI a numeric vector

DFI.time a numeric vector

PFI a numeric vector

PFI.time a numeric vector

OS_month a numeric vector

A1BG a numeric vector

A1CF a numeric vector

A2M a numeric vector

A2ML1 a numeric vector

A3GALT2 a numeric vector

A4GALT a numeric vector

A4GNT a numeric vector

AAAS a numeric vector

AACS a numeric vector

AADAC a numeric vector

AADACL2 a numeric vector

AADACL3 a numeric vector

AADACL4 a numeric vector

AADAT a numeric vector

AAGAB a numeric vector

AAK1 a numeric vector

AAMDC a numeric vector

AAMP a numeric vector

AANAT a numeric vector

AAR2 a numeric vector

AARD a numeric vector

AARS1 a numeric vector

AARS2 a numeric vector

AARSD1 a numeric vector

AASDH a numeric vector

AASDHPPT a numeric vector

AASS a numeric vector

AATF a numeric vector

AATK a numeric vector

ABAT a numeric vector

ABCA1 a numeric vector

ABCA10 a numeric vector

ABCA12 a numeric vector

ABCA13 a numeric vector

ABCA2 a numeric vector

ABCA3 a numeric vector

ABCA4 a numeric vector

ABCA5 a numeric vector

ABCA6 a numeric vector

ABCA7 a numeric vector

ABCA8 a numeric vector

ABCA9 a numeric vector

ABCB1 a numeric vector

ABCB10 a numeric vector

ABCB11 a numeric vector

ABCB4 a numeric vector

ABCB5 a numeric vector

ABCB6 a numeric vector

ABCB7 a numeric vector

ABCB8 a numeric vector

ABCB9 a numeric vector

ABCC1 a numeric vector

ABCC10 a numeric vector

ABCC11 a numeric vector

ABCC12 a numeric vector

ABCC2 a numeric vector

ABCC3 a numeric vector

ABCC4 a numeric vector

ABCC5 a numeric vector

ABCC6 a numeric vector

ABCC8 a numeric vector

ABCC9 a numeric vector

ABCD1 a numeric vector

ABCD2 a numeric vector

ABCD3 a numeric vector

ABCD4 a numeric vector

ABCE1 a numeric vector

ABCF1 a numeric vector

ABCF2 a numeric vector

ABCF2.H2BE1 a numeric vector

ABCF3 a numeric vector

ABCG1 a numeric vector

ABCG2 a numeric vector

ABCG4 a numeric vector

ABCG5 a numeric vector

ABCG8 a numeric vector

ABHD1 a numeric vector

ABHD10 a numeric vector

ABHD11 a numeric vector

ABHD12 a numeric vector

ABHD12B a numeric vector

ABHD13 a numeric vector

ABHD14A a numeric vector

ABHD14A.ACY1 a numeric vector

ABHD14B a numeric vector

ABHD15 a numeric vector

ABHD16A a numeric vector

ABHD16B a numeric vector

ABHD17A a numeric vector

ABHD17B a numeric vector

ABHD17C a numeric vector

ABHD18 a numeric vector

ABHD2 a numeric vector

ABHD3 a numeric vector

ABHD4 a numeric vector

ABHD5 a numeric vector

ABHD6 a numeric vector

ABHD8 a numeric vector

ABI1 a numeric vector

ABI2 a numeric vector

ABI3 a numeric vector

ABI3BP a numeric vector

ABITRAM a numeric vector

ABL1 a numeric vector

ABL2 a numeric vector

ABLIM1 a numeric vector

ABLIM2 a numeric vector

ABLIM3 a numeric vector

ABO a numeric vector

ABR a numeric vector

ABRA a numeric vector

ABRACL a numeric vector

ABRAXAS1 a numeric vector

ABRAXAS2 a numeric vector

ABT1 a numeric vector

ABTB1 a numeric vector

ABTB2 a numeric vector

AC000093.1 a numeric vector

AC000120.2 a numeric vector

AC000120.3 a numeric vector

AC001226.2 a numeric vector

AC002094.3 a numeric vector

AC002310.4 a numeric vector

AC002456.2 a numeric vector

AC002985.1 a numeric vector

AC002996.1 a numeric vector

AC003002.1 a numeric vector

AC003002.2 a numeric vector

AC003002.3 a numeric vector

AC003005.1 a numeric vector

AC003006.1 a numeric vector

AC003688.1 a numeric vector

AC004076.1 a numeric vector

AC004080.3 a numeric vector

AC004223.3 a numeric vector

AC004233.4 a numeric vector

AC004593.2 a numeric vector

AC004687.2 a numeric vector

AC004691.2 a numeric vector

AC004706.3 a numeric vector

AC004805.1 a numeric vector

AC004832.3 a numeric vector

AC004922.1 a numeric vector

AC004997.1 a numeric vector

AC005020.2 a numeric vector

AC005041.1 a numeric vector

AC005154.5 a numeric vector

AC005192.1 a numeric vector

AC005258.1 a numeric vector

AC005324.2 a numeric vector

AC005324.3 a numeric vector

AC005520.1 a numeric vector

AC005551.1 a numeric vector

AC005670.2 a numeric vector

AC005697.1 a numeric vector

AC005702.1 a numeric vector

AC005726.1 a numeric vector

AC005832.4 a numeric vector

AC005833.1 a numeric vector

AC005837.2 a numeric vector

AC005943.1 a numeric vector

AC006030.1 a numeric vector

AC006059.2 a numeric vector

AC006064.6 a numeric vector

AC006254.1 a numeric vector

AC006486.1 a numeric vector

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BACH2 a numeric vector

BAD a numeric vector

BAG1 a numeric vector

BAG2 a numeric vector

BAG3 a numeric vector

BAG4 a numeric vector

BAG5 a numeric vector

BAG6 a numeric vector

BAHCC1 a numeric vector

BAHD1 a numeric vector

BAIAP2 a numeric vector

BAIAP2L1 a numeric vector

BAIAP2L2 a numeric vector

BAIAP3 a numeric vector

BAK1 a numeric vector

BAMBI a numeric vector

BANF1 a numeric vector

BANF2 a numeric vector

BANK1 a numeric vector

BANP a numeric vector

BAP1 a numeric vector

BARD1 a numeric vector

BARHL1 a numeric vector

BARHL2 a numeric vector

BARX1 a numeric vector

BARX2 a numeric vector

BASP1 a numeric vector

BATF a numeric vector

BATF2 a numeric vector

BATF3 a numeric vector

BAX a numeric vector

BAZ1A a numeric vector

BAZ1B a numeric vector

BAZ2A a numeric vector

Details

This is Train Norm data.

Value

A data frame with columns X and Y.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Train_Norm_data)
## maybe str(Train_Norm_data)
## plot(Train_Norm_data)
```

Train_PI_data *Train PI data*

Description

This is Train PI data.

Usage

```
data("Train_PI_data")
```

Format

A data frame with 158 observations on the following 57 variables.

`OS` a numeric vector

`OS_month` a numeric vector

`AADACL4` a numeric vector

`ABCA12` a numeric vector

`ABCC3` a numeric vector

`ABI1` a numeric vector

`ABRA` a numeric vector

`AC006059.2` a numeric vector

`AC008676.3` a numeric vector

`AC008764.4` a numeric vector

`AC010132.3` a numeric vector

`AC012651.1` a numeric vector

`AC013477.1` a numeric vector

`AC109583.1` a numeric vector

`AC113348.2` a numeric vector

`AC117457.1` a numeric vector

`AC131160.1` a numeric vector

`AC144573.1` a numeric vector

`AC235565.2` a numeric vector

`ACO2` a numeric vector

`ACTC1` a numeric vector

`ACTL9` a numeric vector

`ACTRT2` a numeric vector

`ADD3` a numeric vector

`ADGRL3` a numeric vector

`ADH7` a numeric vector

`ADPRHL1` a numeric vector

`ADRA2A` a numeric vector

`ADRA2B` a numeric vector

`AFMID` a numeric vector

`AKAP12` a numeric vector

`AKAP14` a numeric vector

`AKAP3` a numeric vector

`AL139260.3` a numeric vector

`ALG6` a numeric vector

ANGPTL6 a numeric vector

ANKRD20A1 a numeric vector

ANXA6 a numeric vector

ANXA8L1 a numeric vector

AOC2 a numeric vector

APOBEC1 a numeric vector

APOE a numeric vector

ARHGAP11B a numeric vector

ARHGAP12 a numeric vector

ARHGEF19 a numeric vector

ARL2.SNX15 a numeric vector

ARL6IP1 a numeric vector

ARPC4.TTLL3 a numeric vector

ASB4 a numeric vector

ASB5 a numeric vector

ASB6 a numeric vector

ASPM a numeric vector

ATP1A2 a numeric vector

ATP2B4 a numeric vector

AZGP1 a numeric vector

B3GAT2 a numeric vector

PI a numeric vector

Details

This is Train PI data.

Value

A data frame with columns X and Y.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Train_PI_data)
## maybe str(Train_PI_data)
## plot(Train_PI_data)
```

Train_results *Training Results for Survival Prediction*

Description

A data frame containing survival prediction results for training samples. The data includes actual risk group labels, predicted risk groups, probabilities for each class, and overall survival data.

Usage

```
data(Train_results)
```

Format

A data frame with 158 observations and 8 variables:

Sample_ID Character vector with the unique sample identifier (e.g., "TCGA-E1-5318-01").

Actual Factor indicating the actual risk group: "High_Risk" or "Low_Risk".

Predicted_Risk_Group Factor indicating the predicted risk group: "High_Risk" or "Low_Risk".

High_Risk_Prob Numeric value representing the probability of the sample being classified as High Risk.

Low_Risk_Prob Numeric value representing the probability of the sample being classified as Low Risk.

Prediction_Prob Numeric value representing the maximum class probability (confidence in prediction).

OS_month Integer representing the overall survival time in months.

OS_event Integer indicating the survival event: 1 = death, 0 = censored.

Source

The data was derived from TCGA (The Cancer Genome Atlas) using survival prediction models.

train_test_normalization_f *Train-Test Data Normalization Function*

Description

This function performs normalization on training and test datasets, which include clinical data and gene expression values. The function applies log transformation and quantile normalization to the gene expression values.

Usage

```
train_test_normalization_f(train_data, test_data, col_num)
```

Arguments

`train_data`	A data frame containing the training dataset. The first columns represent clinical data, and the rest represent gene expression data.
`test_data`	A data frame containing the test dataset. The structure is the same as `train_data`.
`col_num`	An integer specifying the starting column index of the gene expression data in the datasets.

Details

The function performs the following steps:

1. Splits clinical and gene expression data based on `col_num`.
2. Applies log2 transformation to the gene expression data.
3. Performs quantile normalization on the log-transformed data for both training and test datasets.
4. Combines the clinical data with the normalized gene expression data.

Value

A list containing four data frames:

Train_Clin A data frame containing the clinical data from the training dataset.

Test_Clin A data frame containing the clinical data from the test dataset.

Train_Norm_data A data frame containing the combined clinical and normalized gene expression data for the training set.

Test_Norm_data A data frame containing the combined clinical and normalized gene expression data for the test set.

Examples

```
# Example datasets
train_data <- data.frame(matrix(rnorm(100), nrow = 10))
test_data <- data.frame(matrix(rnorm(100), nrow = 10))
col_num <- 5
result <- train_test_normalization_f(train_data, test_data, col_num)
str(result$Train_Norm_data)
str(result$Test_Norm_data)
```

Train_Uni_sig_data *Train Uni sig data*

Description

This is Train Uni sig data.

Usage

```
data("Train_Uni_sig_data")
```

Format

A data frame with 158 observations on the following 209 variables.

A2ML1 a numeric vector

AADACL4 a numeric vector

AAMDC a numeric vector

AAR2 a numeric vector

ABCA12 a numeric vector

ABCB4 a numeric vector

ABCB5 a numeric vector

ABCB6 a numeric vector

ABCC3 a numeric vector

ABCC9 a numeric vector

ABCE1 a numeric vector

ABCF3 a numeric vector

ABHD12 a numeric vector

ABHD14B a numeric vector

ABLIM1 a numeric vector

ABLIM3 a numeric vector

ABT1 a numeric vector

AC004076.1 a numeric vector

AC005520.1 a numeric vector

AC005832.4 a numeric vector

AC006030.1 a numeric vector

AC008764.4 a numeric vector

AC010132.3 a numeric vector

AC013470.2 a numeric vector

AC027796.3 a numeric vector

AC097636.1 a numeric vector

AC106741.1 a numeric vector

AC131160.1 a numeric vector

AC132217.2 a numeric vector

AC144573.1 a numeric vector

ACAP2 a numeric vector

ACBD5 a numeric vector

ACE a numeric vector

ACMSD a numeric vector

ACO1 a numeric vector

ACO2 a numeric vector

ACP5 a numeric vector

ACRV1 a numeric vector

ACSBG1 a numeric vector

ACSM5 a numeric vector

ACSM6 a numeric vector

ACTG1 a numeric vector

ACTN1 a numeric vector

ACTR3 a numeric vector

ADAM12 a numeric vector

ADAM15 a numeric vector

ADAM19 a numeric vector

ADAM32 a numeric vector

ADAMTS18 a numeric vector

ADAMTS7 a numeric vector

ADAMTS8 a numeric vector

ADCK2 a numeric vector

ADCY2 a numeric vector

ADCY8 a numeric vector

ADD3 a numeric vector

ADGRB3 a numeric vector

ADGRD2 a numeric vector

ADGRE2 a numeric vector

ADGRE5 a numeric vector

ADGRG7 a numeric vector

ADGRL4 a numeric vector

ADGRV1 a numeric vector

ADH4 a numeric vector

ADHFE1 a numeric vector

ADK a numeric vector

ADNP a numeric vector

ADPRH a numeric vector

ADRB2 a numeric vector

ADRM1 a numeric vector

AEN a numeric vector

AFAP1L2 a numeric vector

AGAP1 a numeric vector

AGGF1 a numeric vector

AGPS a numeric vector

AGR3 a numeric vector

AGRN a numeric vector

AHCYL1 a numeric vector

AHNAK a numeric vector

AK2 a numeric vector

AK8 a numeric vector

AKAP3 a numeric vector

AKAP4 a numeric vector

AKAP6 a numeric vector

AKIP1 a numeric vector

AKR1C1 a numeric vector

AL121845.3 a numeric vector

AL160272.2 a numeric vector

AL365214.2 a numeric vector

AL391628.1 a numeric vector

AL445989.1 a numeric vector

AL591806.2 a numeric vector

AL669918.1 a numeric vector

ALDH9A1 a numeric vector

ALDOB a numeric vector

ALDOC a numeric vector

ALG10B a numeric vector

ALG2 a numeric vector

ALG3 a numeric vector

ALG6 a numeric vector

ALKBH3 a numeric vector

ALOX5AP a numeric vector

ALYREF a numeric vector

AMDHD1 a numeric vector

AMPD3 a numeric vector

ANGPTL2 a numeric vector

ANGPTL5 a numeric vector

ANKFY1 a numeric vector

ANKLE2 a numeric vector

ANKRD20A1 a numeric vector

ANKRD24 a numeric vector

ANKRD29 a numeric vector

ANKRD36 a numeric vector

ANKRD36C a numeric vector

ANO2 a numeric vector

ANPEP a numeric vector

ANXA1 a numeric vector

ANXA7 a numeric vector

AP003108.2 a numeric vector

AP3S1 a numeric vector

AP3S2 a numeric vector

APEH a numeric vector

APEX2 a numeric vector

APH1A a numeric vector

APLN a numeric vector

APOBEC3B a numeric vector

APOBEC3G a numeric vector

APOBR a numeric vector

APOE a numeric vector

APOL1 a numeric vector

APOL4 a numeric vector

APPBP2 a numeric vector

AQP10 a numeric vector

AQP7 a numeric vector

ARAP3 a numeric vector

ARF4 a numeric vector

ARFGAP2 a numeric vector

ARHGAP11A a numeric vector

ARHGAP11B a numeric vector

ARHGAP24 a numeric vector

ARHGAP32 a numeric vector

ARHGDIG a numeric vector

ARHGEF17 a numeric vector

ARHGEF19 a numeric vector

ARL1 a numeric vector

ARL15 a numeric vector

ARL2.SNX15 a numeric vector

ARL5C a numeric vector

ARL6IP6 a numeric vector

ARMC4 a numeric vector

ARMC6 a numeric vector

ARMC9 a numeric vector

ARPC3 a numeric vector

ARPC4 a numeric vector

ARPP21 a numeric vector

ARSA a numeric vector

ARSI a numeric vector

ARSL a numeric vector

ART4 a numeric vector

ASAH2 a numeric vector

ASAP1 a numeric vector

ASB12 a numeric vector

ASCC3 a numeric vector

ASF1B a numeric vector

ASIC4 a numeric vector

ASPH a numeric vector

ASPM a numeric vector

ATAD2 a numeric vector

ATAD5 a numeric vector

ATG9B a numeric vector

ATIC a numeric vector

ATP11A a numeric vector

ATP11C a numeric vector

ATP13A4 a numeric vector

ATP1B2 a numeric vector

ATP1B3 a numeric vector

ATP2A3 a numeric vector

ATP2B1 a numeric vector

ATP4B a numeric vector

ATP5F1D a numeric vector

ATP5MC2 a numeric vector

ATP5ME a numeric vector

ATP6V0A4 a numeric vector

ATP9B a numeric vector

ATR a numeric vector

ATRAID a numeric vector

ATRIP a numeric vector

ATXN7 a numeric vector

AUNIP a numeric vector

AURKA a numeric vector

AVPI1 a numeric vector

AWAT1 a numeric vector

AZU1 a numeric vector

B3GAT2 a numeric vector

B3GNT7 a numeric vector

B3GNT8 a numeric vector

B4GALNT2 a numeric vector

B4GALT3 a numeric vector

B4GALT7 a numeric vector

B4GAT1 a numeric vector

BACH2 a numeric vector

BAG3 a numeric vector

BAG5 a numeric vector

BAHD1 a numeric vector

BAIAP3 a numeric vector

BANK1 a numeric vector

BASP1 a numeric vector

BATF2 a numeric vector

BAX a numeric vector

BAZ1B a numeric vector

Details

This is Train Uni sig data.

Value

A data frame with columns X and Y.

Source

https://portal.gdc.cancer.gov/

Examples

```
data(Train_Uni_sig_data)
## maybe str(Train_Uni_sig_data)
## plot(Train_Uni_sig_data)
```

Univariate_sig_features_f

Perform Univariate Survival Analysis

Description

This function performs univariate survival analysis on the provided datasets to identify significant features (genes or clinical features) associated with survival outcomes. It applies Cox proportional hazards models to compute hazard ratios and p-values for median expression cut-offs or clinical feature values.

Usage

```
Univariate_sig_features_f(
  train_data,
  test_data,
  col_num,
  surv_time,
  surv_event
)
```

Arguments

`train_data`	A data frame containing the training dataset. It must include survival time and event columns.
`test_data`	A data frame containing the test dataset. It must include survival time and event columns.
`col_num`	An integer specifying the column number in the dataset from which feature analysis should begin.
`surv_time`	A string specifying the name of the survival time column in the dataset.
`surv_event`	A string specifying the name of the survival event column in the dataset.

Details

The function first checks the validity of the input variables, such as whether the survival time and event columns are present in the training and test datasets. It then renames these columns to "OS_month" and "OS" internally for consistency. For each feature starting from the specified column number (`col_num`), univariate Cox proportional hazards models are fitted to assess the association between the feature and survival outcomes.

For clinical features, a similar process is applied, but the analysis is limited to the initial `col_num - 1` columns.

Significant features are determined based on a p-value threshold of 0.05. The function returns the significant features and their corresponding hazard ratios, p-values, and other related statistics for both training and test datasets.

Value

A list containing:

`Univariate_Survival_Significant_genes_List`
: A data frame of significant gene features with associated statistics.

`Train_Uni_sig_data`
: A data frame of selected significant gene features for the training dataset.

`Test_Uni_sig_data`
: A data frame of selected significant gene features for the test dataset.

`Univariate_Survival_Significant_clin_List`
: A data frame of significant clinical features with associated statistics.

`Train_Uni_sig_clin_data`
: A data frame of selected significant clinical features for the training dataset.

`Test_Uni_sig_clin_data`
: A data frame of selected significant clinical features for the test dataset.

`ZPH_Genes`
: A list of `cox.zph` objects for each gene feature, containing Schoenfeld residuals used to assess proportional hazards assumption.

`PH_Summary_Genes`
: A data frame summarizing proportional hazards test results for each gene, including p-values and indicators of assumption violation.

Examples

```
# Example data (requires real survival datasets for testing)
train_data <- data.frame(
  OS_month = c(10, 15, 20, 25),
  OS = c(1, 0, 1, 1),
  Gene1 = c(2.3, 3.4, 1.2, 2.5),
  Gene2 = c(0.5, 1.8, 0.9, 0.6),
  Clinical1 = c(1, 0, 1, 0)
)
test_data <- data.frame(
  OS_month = c(12, 18, 22, 28),
  OS = c(1, 1, 0, 1),
  Gene1 = c(2.0, 3.1, 1.0, 2.3),
```

```
  Gene2 = c(0.4, 1.5, 1.0, 0.7),
  Clinical1 = c(1, 1, 0, 0)
)
#result <- Univariate_sig_features_f(
#   train_data = train_data,
#   test_data = test_data,
#   col_num = 3,
#   surv_time = "OS_month",
#   surv_event = "OS"
#)
```

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