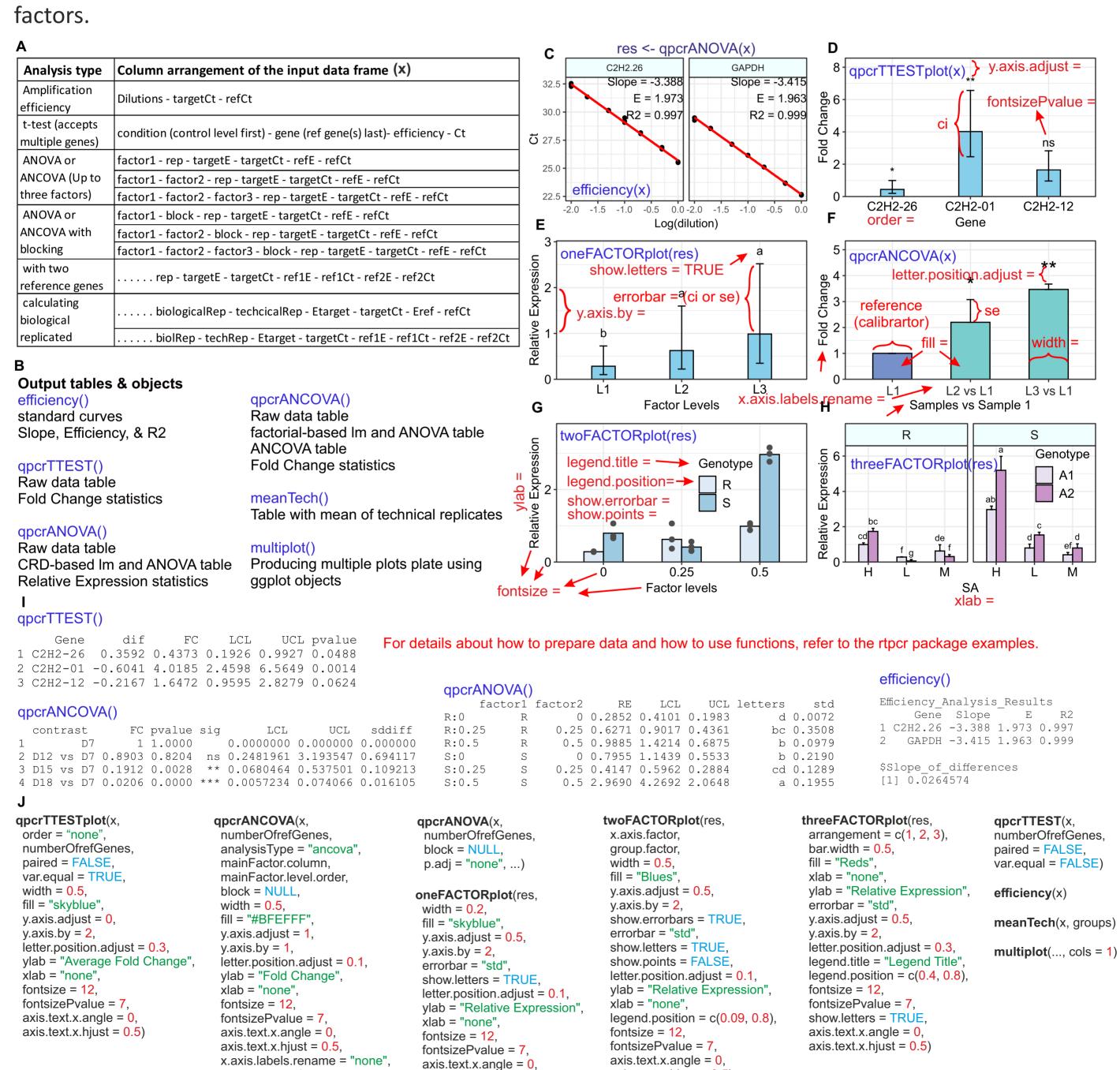
rtpcr package

'rtpcr' package was developed for amplification efficiency calculation, statistical analysis and graphical display of real-time PCR data in R. By accounting for up to two reference genes and amplification efficiency values, a general calculation methodology covering both the Livak and Pfaffl methods was used. Based on the experimental conditions, the functions of the 'rtpcr' package use a t-test (for experiments with a two-level factor), analysis of variance or covariance (for cases where more than two levels or factors or a blocking factor exist) to calculate the fold change (FC) or relative expression (RE). The functions further provide standard deviations and confidence limits for means, apply statistical mean comparisons and present letter mean grouping. To facilitate function application, different data sets were used as examples and the outputs were explained. An outstanding feature of 'rtpcr' package is providing publication-ready bar plots with various controlling arguments for experiments with up to three different factors.



axis.text.x.hjust = 0.5

axis.text.x.hjust = 0.5)

p.adj = "none")