

Supplementary Figure 1: Medians of relative quantity (RQ) for target genes *B4GALT1–B4GALT7* normalized to the reference gene or pair of reference genes with the best stability values resulting from GenExpA analysis based on set 1 of four candidate reference genes (*HPRT1*, *PGK1*, *RPS23*, *SNRPA*) and remove repetition level 0 (see Table 2, part A). The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Violet frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 3.

Supplementary Figure 2: Print screen of a GenExpA main window with selected parameters of the analysis and coherence score (CS) values for target genes *B4GALT1–B4GALT7* and average CS value of the analysis.

Supplementary Figure 3: Print screen of a GenExpA main window with selected parameters of the analysis and coherence score (CS) values for target genes *B4GALT1–B4GALT7* and average CS value of the analysis.

Supplementary Figure 4: Medians of relative quantity (RQ) for target genes *B4GALT1–B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set 1 of four candidate reference genes (*HPRT1*, *PGK1*, *RPS23*, *SNRPA*) and remove repetition level 1 (see Table 2, part A). The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Red frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 4.

Supplementary Figure 5: Print screen of a GenExpA main window with selected parameters of the analysis and coherence score (CS) values for target genes *B4GALT1–B4GALT7* and average CS value of the analysis.

Supplementary Figure 6: Medians of relative quantity (RQ) for target genes *B4GALT1–B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set of five candidate reference genes (*PGK1, RPS23, SNRPA, HPRT1, GUSB*) and remove repetition level 0 (see Table 2, part B). The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Violet frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 7.

Supplementary Figure 7: Print screen of a GenExpA main window with selected parameters of the analysis and coherence score (CS) values for target genes *B4GALT1–B4GALT7* and average CS value of the analysis.

Supplementary Figure 8: Medians of relative quantity (RQ) for target genes *B4GALT1–B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set of five candidate reference genes (*PGK1, RPS23, SNRPA, HPRT1, GUSB*) and remove repetition level 1 (see Table 2, part B). The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Red frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 8.

Supplementary Figure 9: Print screen of a GenExpA main window with selected parameters of the analysis and coherence score (CS) values for target genes *B4GALT1–B4GALT7* and average CS value of the analysis.

Supplementary Figure 10: Medians of relative quantity (RQ) for target genes *B4GALT1–B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set of five candidate reference genes (*PGK1, RPS23, SNRPA, HPRT1, GUSB*) and remove repetition level 2 (see Table 2, part B). The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Green frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 9.

Supplementary Figure 11: Medians of relative quantity (RQ) for target genes *B4GALT1–B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set 2 of four candidate reference genes (*RPS23, SNRPA, HPRT1, GUSB*) and remove repetition level 0. The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Violet frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 10.

Supplementary Figure 12: Medians of relative quantity (RQ) for target genes *B4GALT1–B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set 2 of four candidate reference genes (*RPS23, SNRPA, HPRT1, GUSB*) and remove repetition level 1. The statistical analyses used

the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Red frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 11.

Supplementary Figure 13: Medians of relative quantity (RQ) for target genes *B4GALT1*–*B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set 3 of four candidate reference genes (*SNRPA*, *HPRT1*, *GUSB*, *PGKI*) and remove repetition level 0. The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Violet frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 12.

Supplementary Figure 14: Medians of relative quantity (RQ) for target genes *B4GALT1*–*B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set 3 of four candidate reference genes (*SNRPA*, *HPRT1*, *GUSB*, *PGKI*) and remove repetition level 1. The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Red frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 13.

Supplementary Figure 15: Medians of relative quantity (RQ) for target genes *B4GALT1*–*B4GALT7* normalized to reference gene or pair of reference genes with the best stability

values resulted from GenExpA analysis based on a set 4 of four candidate reference genes (*HPRT1*, *GUSB*, *PGK1*, *RPS23*) and remove repetition level 0. The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Violet frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 14.

Supplementary Figure 16: Medians of relative quantity (RQ) for target genes *B4GALT1*–*B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set 4 of four candidate reference genes (*HPRT1*, *GUSB*, *PGK1*, *RPS23*) and remove repetition level 1. The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Red frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 15.

Supplementary Figure 17: Medians of relative quantity (RQ) for target genes *B4GALT1*–*B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set 5 of four candidate reference genes (*GUSB*, *PGK1*, *RPS23*, *HPRT1*) and remove repetition level 0. The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Violet frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 16.

Supplementary Figure 18: Medians of relative quantity (RQ) for target genes *B4GALT1*–*B4GALT7* normalized to reference gene or pair of reference genes with the best stability values resulted from GenExpA analysis based on a set 5 of four candidate reference genes (*GUSB*, *PGK1*, *RPS23*, *HPRT1*) and remove repetition level 1. The statistical analyses used the Kolmogorov-Smirnov test for models composed of two cell lines, or the Kruskal-Wallis test (ANOVA for models built of three or more cell lines). Red line represents statistical significance, $P < 0.05$. Red frames denote box-plots representing the medians of the RQ values for a given target gene without a repeatable pattern in the same cell lines under different models. Detailed results are listed in Supplementary Table 17.

Supplementary Figure 19: Medians of relative quantity (RQ) for target genes *B4GALT1*–*B4GALT7* normalized to the reference gene or pair of reference genes with the best stability values in the experimental model of interest resulting from GenExpA analysis based on selection of references from four (sets 1–5; remove repetition levels 0 and 1) and five candidate reference genes (remove repetition levels 0, 1 and 2). A crossed-out box-plot represents unreliable normalization of a given target gene ($CS < 1$). Red line represents statistical significance, $P < 0.05$.