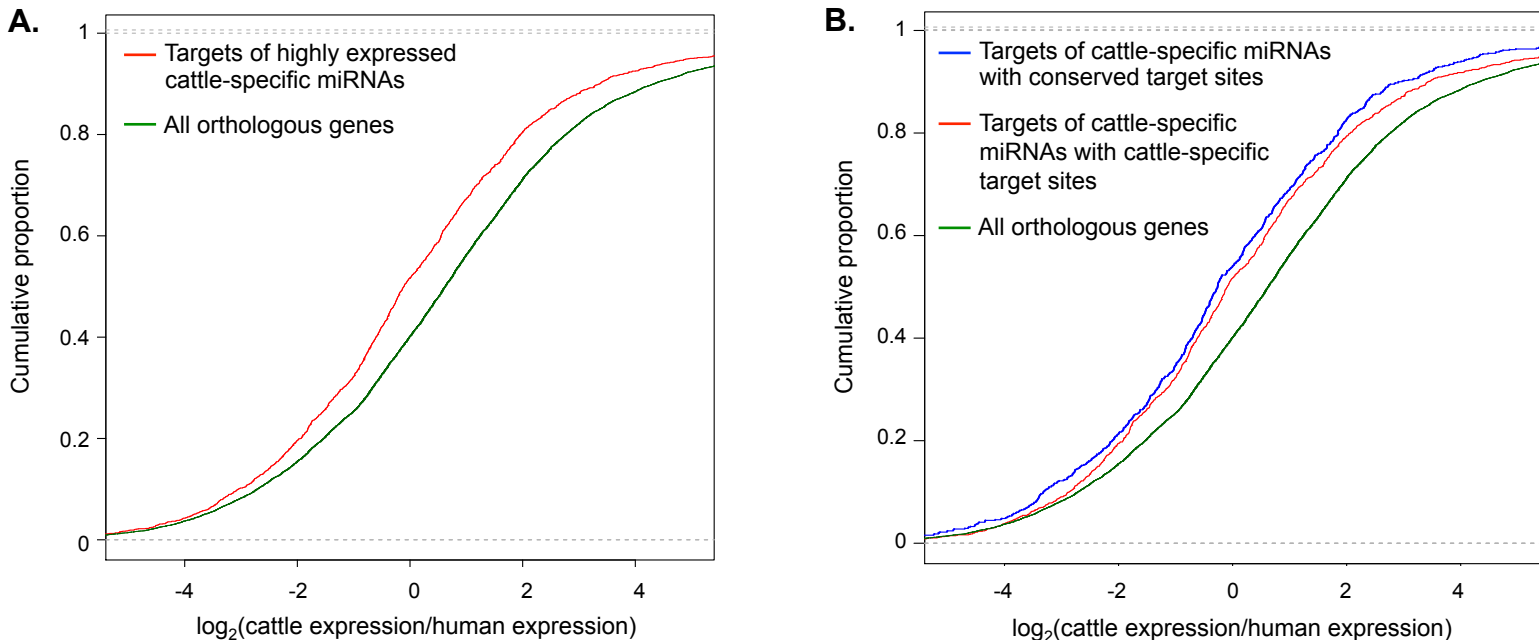


Additional file 5- Comparison of target mRNA expression between cattle and human



Cumulative distribution function (CDF) plots of log₂-transformed gene expression (cpm) ratios. Each ratio is calculated as the expression of a bovine mRNA divided by the expression of its human orthologue. (A) The CDF for targets of highly expressed cattle-specific miRNAs ($n = 1829$) and all orthologous genes ($n = 9442$) is significantly different ($p < 2.2e-16$) by the Kolmogorov-Smirnov test. Genes that are targeted by both conserved and cattle-specific miRNAs were excluded from this analysis. (B) The CDFs for targets of highly expressed cattle-specific miRNAs with conserved target sites ($n = 830$) and all orthologous genes ($n = 9442$) are significantly different ($p = 8.554e-16$) by the Kolmogorov-Smirnov test, as are the CDFs for targets of highly expressed cattle-specific miRNAs with cattle-specific target sites ($n = 1161$) and all orthologous genes ($p = 2.821e-13$). However, the CDF for targets of highly expressed cattle-specific miRNAs with conserved target sites is not significantly different from the CDF for targets of highly expressed cattle-specific miRNAs with cattle-specific target sites ($p = 0.25$).