**Data availability**

All the data appeared in this study can be obtained in the GEO datasets in NCBI, GSE83286 was available at <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE83286>, GSE77791 was available at <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE77791>, GSE113620 was available at [https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE113620.](https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE113620.%20%20%20%20R) R code used during the research was provided as Supplementary file 4 named Burn-ceRNA with rmd format which can be reappeared in Rstudio platform.