

1. The mRNA expression profile of GSE48501 and microRNA profile of GSE48502 were downloaded from the GEO database (Gene expression omnibus, <http://www.ncbi.nlm.nih.gov/geo/>).
2. GEO2R analysis software can be download from (<http://www.ncbi.nlm.nih.gov/geo/geo2r/>).
3. Disease gene search engine with evidence sentence (DigSee) can be got from (<http://210.107.182.61/geneSearch/>).
4. Venn diagram (<http://bioinformatics.psb.ugent.be/webtools/Venn/>).
5. Gene ontology (GO) biological process terms and pathway enrichment analysis of differentially expressed genes was performed using FunRich software ([www.funrich.org/](http://www.funrich.org/)) and Clue Go software respectively. The P-value <0.05 was considered significant GO and pathway term. DIANA miRPATH tool (<http://diana.imis.athena-innovation.gr/DianaTools/>) .
6. The STRING database (<http://string-db.org/>) is an online tool to construct protein-protein interaction network, including physical and functional associations.
7. mirDIP online software (<http://ophid.utoronto.ca/mirDIP/index.jsp>).
8. Cytoscape software can be download from <https://cytoscape.org/>.