

GSE12453 (GEO database)

The Affy package

Pre-processing, normalization;
quality control

GSM312887
excluded

limma in R

WGCNA in R

Identified DEGs

String & Cytoscape databases

R software

PPI

GO, KEGG, &
Cibersort analyses

Clinical traits

Hub modules

R software

Venn diagram

GO & KEGG

Hub modules

R software

Differentially co-expressed
hub genes

Verification
(GEPIA 2, HPA)

R software

Survival analysis
(GSE31312)

String & Cytoscape

Core hub genes
(GO & KEGG))