

Table S1. The primer sequences used to amplify the 5 genes.

Gene Symbol	Forward primer (5'->3')	Reverse primer (5'->3')	Product length (bp)
ZNF695	ACAGCCAGACACTCAGTTTGT	TCCACTCACCCACAATTCCC	160
CENPA	TAGGCGCTTCCTCCATCAA	CACATATTCTCTTGCCAGGCG	129
TORAP	TGTCCATCACCCTTGGACG	GGATACCGATGCGCCAGG	214
BIRC5	TGACGACCCCATAAGAGGAAC	CGCACTTCTCCGCAGTTTC	186
KIF20A	GTGGCACGTCTCGACCTA	TTCTTGCCTTACACAGACCC	149

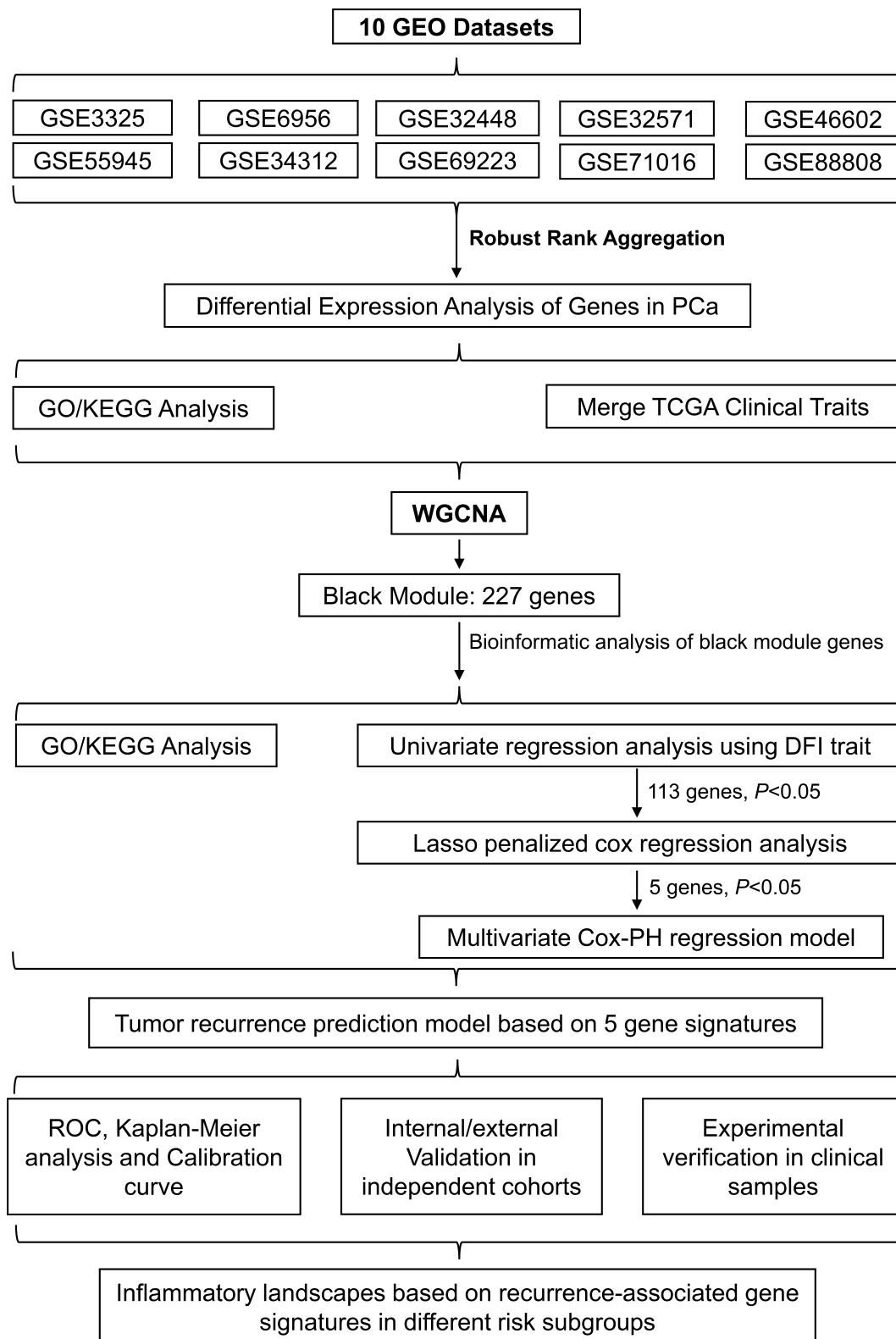


Figure S1. The flow chart of the analysis procedure.

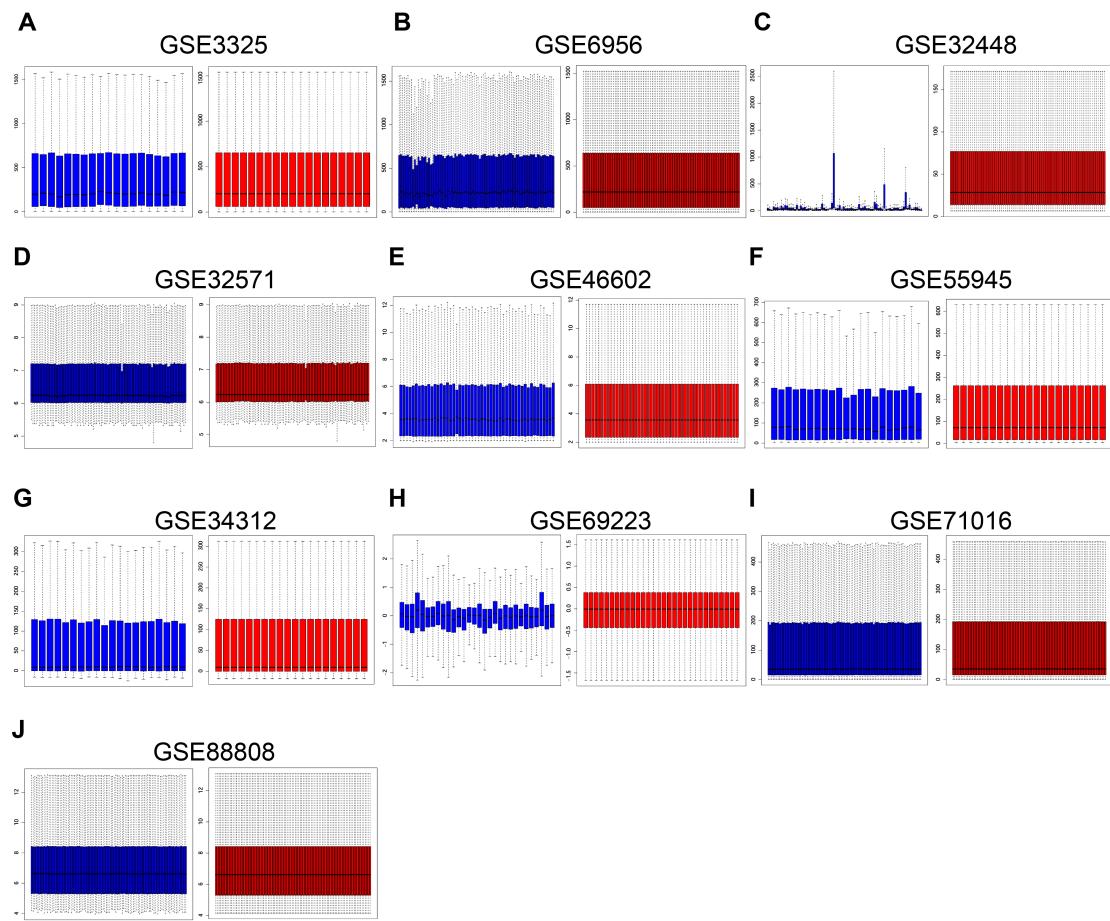


Figure S2. (A–J) RawBox graph shows normalized processing on GEO datasets.

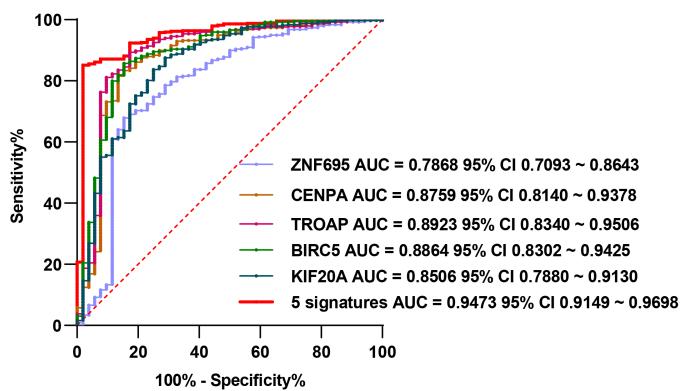


Figure S3. The combined diagnosis model based on 5 gene signatures shows higher diagnosis efficiency in TCGA cohort.

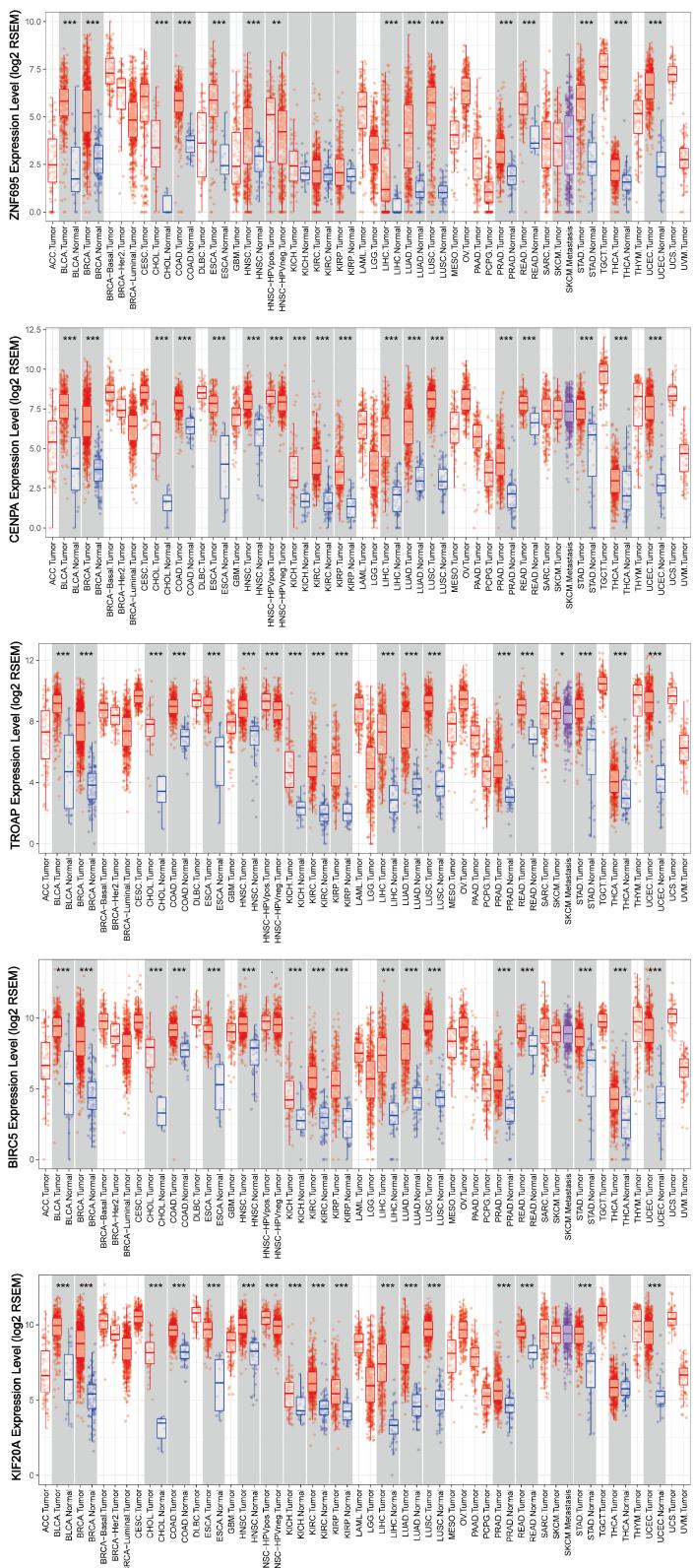


Figure S4. Assessment the imbalance of these 5 gene signatures in other tumors based on TCGA

database algorithm.