

**Supplementary Table S1** Online analysis website

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website	URL
TCGA-LIHC	<a href="https://portal.gdc.cancer.gov/">https://portal.gdc.cancer.gov/</a>
ICGC	<a href="https://dcc.icgc.org/">https://dcc.icgc.org/</a>
GSE54236	<a href="https://www.ncbi.nlm.nih.gov/geo/">https://www.ncbi.nlm.nih.gov/geo/</a>
GEPIA	<a href="http://gepia.cancer-pku.cn/">http://gepia.cancer-pku.cn/</a>
GSEA	<a href="https://www.gsea-msigdb.org/gsea/msigdb/index.jsp">https://www.gsea-msigdb.org/gsea/msigdb/index.jsp</a>
TIMER	<a href="https://cistrome.shinyapps.io/timer/">https://cistrome.shinyapps.io/timer/</a>
HPA	<a href="https://www.proteinatlas.org">https://www.proteinatlas.org</a>

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**Supplementary Table S2** Primer sequences used in this study.

Primer name		Sequence (5'-3')
ACC	F	ATGTCTGGCTTGCACCTAGTA
	R	CCCCAAAGCGAGTAACAAATTCT
APEX1	F	AGAGCCAGAGGCCAAGAAGAGTA
	R	GAAGCCCATCCACATTCCAAGAG
ADH1C	F	CCCCAAACTTGTGGCTGACTT
	R	CAGGACGGTACGGATACTCTTT
ME1	F	CTTCATGCCTGACTGATAT
	R	GACGTCTCAGGACTTACG
CYP2C9	F	GGGAAAGUAGAAGAGCAGATGGCCTG
	R	GGAGACAUGACTCAGCAAATAATAATGCTTT
S100A10	F	CACACCTTGATGCGTCCTCT
	R	GGCAACCGGATGCAAACAAT
$\beta$ -Actin	F	ATCATGTTTGAGACCTTCAACA
	R	CATCTCTTGCTCGAAGTCCA