

Table SI. Marker genes of cell types.

Cell type	Marker gene
Epithelial	EPCAM, KRT19, KRT18, CDH1
Fibroblasts	DCN, THY1, COL1A1, COL1A2
Endothelial	PECAM1, CLDN5, RAMP2
T lymphocytes	CD3D, CD3E, CD3G, TRAC
Natural killer	GNLY, KLRD1
B lymphocytes	CD79A, IGHM, IGHG3, IGHA2
Myeloid	MARCO, CD68
MAST	KIT, MS4A2, GATA2

Table SII. Reaction system.

Component	Volume
cDNA	3 $\mu$ l
2X Universal Blue SYBR Green qPCR Master Mix	5 $\mu$ l
Forward primer (10 $\mu$ M)	1 $\mu$ l
Reverse primer (10 $\mu$ M)	1 $\mu$ l

Table SIII. Prognostic gene-specific primers.

Gene	Primer (5'-3')
IGSF10 F	GAATCCTGATGCCCAAGCCAT
IGSF10 R	TAGGTCACAGGGCTGGTTCT
ADRB1 F	GCAATGTGCTGGTGATCGTG
ADRB1 R	CACAGCTCGCAGAAGAAGGA
CA4 F	ACCAAGGCAAAGGTGGACAA
CA4 R	GGCCAGTTCATTCTCCCGAT
CACNA2D2 F	AAGACCAGCCTCAGAAGTGC
CACNA2D2 R	CCTGGTCCCCTGATGGTTC
GAPDH F	CGAAGGTGGAGTCAACGGATTT
GAPDH R	ATGGGTGGAATCATATTGGAAC

GADPH was used as an internal reference. F, forward; R, reverse.