Figure S1. Procedure for establishment of patient-derived xenografts. (A) Fresh tumor tissues were divided into small pieces and implanted into NSG mice in the dorsal subcutaneous area of the upper part of the back by using the transplant needle. (B) Tumor tissues for transplantation were obtained from patients with pancreatic cancer. Fresh tumor tissues were implanted into NSG mice. After the engrafted mass expanded well, the xenograft tumor was re-transplanted for expansion in another NSG mouse using the same procedure. We repeated this procedure and passaged the PDXs. The tumor volume reached ~1000 mm³, the mouse was sacrificed, and the tumor was isolated and transplanted into the next mouse. PDXs, patient-derived xenografts.

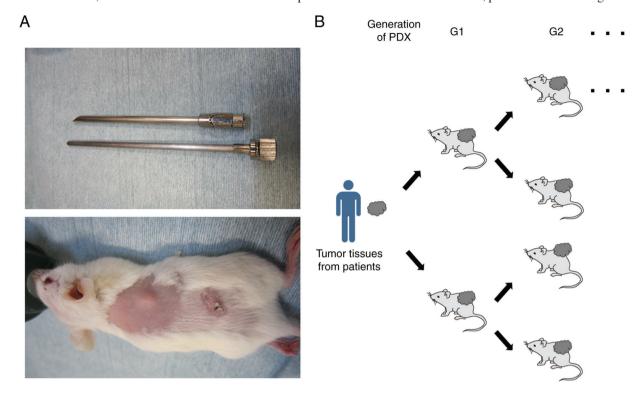


Figure S2. Quantification of pIgR-stained area in 77 pancreatic cancer tissues. The percentage of pIgR-stained area was measured by the Hybrid Cell Count software and analyzed based on the survival time and the expression of pIgR determined by two pathologists. (A) Box-plot diagram revealing the percentage of pIgR-stained area for 77 pancreatic cancer tissues, which were divided into two groups: Low pIgR expression (n=47; median 1%, range 0-7%) and high pIgR expression (n=30; median 23%, range 15-61%). (B) Scatter plot revealing the relationship between the percentage of pIgR-stained area and the survival time.

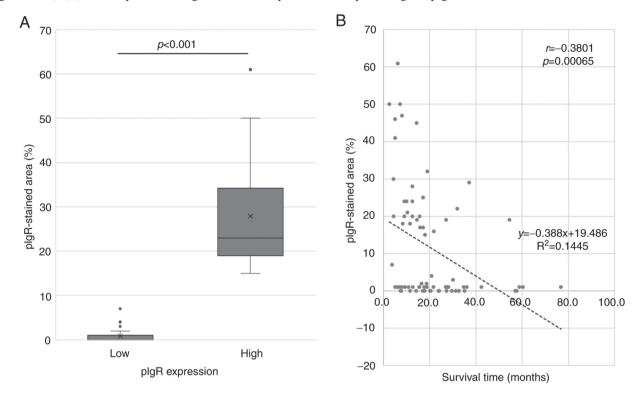


Table SI. Pancreatic cancer PDXs established in this study.

Patient no.	Age	Sex	Tumor location	Pathogenic diagnosis	Pathological stage	Generation of PDX
1	62	Female	Head	Moderately differentiated tubular adenocarcinoma	T3N1M0 StageIIB	G4
2	70	Male	Head	Poorly differentiated tubular adenocarcinoma	T3N1M0 StageIIB	G5
3	73	Female	Body	Moderately differentiated tubular adenocarcinoma	T4N1M0 StageIII	G5
4	72	Male	Pancreatic body/tail	Well-differentiated	T4N2M0 StageIII	G6
				tubular adenocarcinoma		
5	64	Female	Body	Poorly differentiated tubular adenocarcinoma	T4N1M0 StageIII	G6
6	71	Male	Head	Adenosquamous carcinoma	T3N1M0 StageIIB	G5
7	79	Female	Body	Moderately differentiated tubular adenocarcinoma	T4N1M0 StageIII	G6
8	75	Female	Head	Moderately differentiated tubular adenocarcinoma	T4N0M0 StageIII	G7
9	55	Male	Head	Well-differentiated tubular adenocarcinoma	T4N0M0 StageIII	G6
10	51	Female	Head	Poorly differentiated tubular adenocarcinoma	T3N1M0 StageIIB	G6

PDXs, patient-derived xenografts.

Table SII. The list of 193 genes analyzed by RNA sequencing using NGS.

ABHD2 ABL2 ACE AHNAK2 AKAP13 AKAP9 ALOX5 ALOX5AP ALPK3 ANK3 ANKRD17 APOE ARHGEF12 ARID1A ARID5B ARRDC4 ASH1L ATF7IP BAMBI BCAM	C6orf15 C9orf9 CABYR CCDC153 CD74 CDKN1A CHST15 CLASP1 CLIC5 CLU CPZ CREB3L1 CTNND1 CX3CL1 CXCL6 CYFIP2 DGAT2 DGKH DOK5 DST	DYSF EGLN2 EP300 EPHB3 EPPK1 ERC1 FAM24B FAT1 FHL1 FILIP1L FLNC FN1 FOLR1 FOXJ1 GDF15 GGT1 GOLGB1 GOLGB1 GOLT1A GPR132 GPR176	GPX3 HDAC9 HIPK2 HSD17B7 HSPB8 HSPG2 IFI6 IFIT1 IGF2R INPP5J IQSEC1 KIAA1671 KLK5 KLK6 KLK7 KMT2A KRT23 LCN2 LPP LRRC27	MACF1 MAP3K9 MAVS MID1 MKLN1 MLXIP MRAS MUC20 MUC5B MX1 MXRA8 MYLK MYO10 NCF4 NSD1 NTN4 NXN OLFM4 PARVA PCYOXIL	PKD1 PLA2G4C PLEC PLEKHB1 PLK2 PLPP3 PPM1H PRKDC PRSS1 PRSS2 REG4 RGL1 RGMA RNF213 RRAD SAA1 SAA2 SEC16A SERPINA1 SFRPINB7	SIK3 SLAMF7 SLC26A9 SLC43A2 SLC5A1 SORBS1 SPIB SPIN2B SRCAP ST6GAL1 SYNPO SYTL3 TAX1BP3 TBC1D16 TCF7 TCN1 TGFB2 TGFBR3 TGM2 TIMP2	TMEM40 TP53INP1 TRIO TRPV4 TSACC TSPYL2 TTR UBR4 UGGT1 USP9X VPS13C WFDC2 ZKSCAN1 ZNF385A ZNF618
BCAM	DST	GPR176	LRRC27	PCYOX1L	SERPINB7	TIMP2	
BSCL2 C2	DUOXA2 DYNC1H1	GPSM1 GPX2	LUZP1 LYNX1	PI3 PIGR	SEZ6L2 SHROOM3	TLN1 TMEM25	

NGS, next-generation sequencing.