

SUPPLEMENTARY TABLE S1. QUANTITATIVE PROTEOMIC ANALYSIS OF DECELLULARIZED PANCREATIC EXTRACELLULAR MATRIX HYDROGELS AND FRESH PANCREAS

Protein	Gene	Functional classification	Fresh pancreas	% (vs. Total ECM proteins)							
				1% Triton SDS	1% SDS	0.5% SDS	0.1% SDS	1% Triton-PI-Dec	0.1% SDS-PI-Dec	1% Triton-PI	
Collagen alpha-1(IV) chain(arresten/core protein)	COL4A1	Basement membrane	1.24	1.23	—	—	—	—	2.01	—	1.68
Collagen alpha-1/5(IV) chain(arresten/core protein)	COL4A1/5	Basement membrane	1.37	4.36	2.65	1.11	1.49	—	3.24	2.53	3.08
Collagen alpha-2(IV) chain(canstatin/core protein)	COL4A2	Basement membrane	0.74	0.67	0.58	0.31	0.43	—	1.03	0.84	0.86
Laminin alpha-2	LAMA2	Basement membrane	0.30	0.04	—	—	—	—	0.08	—	0.07
Laminin alpha-4	LAMA4	Basement membrane	0.18	0.01	—	—	—	—	0.09	—	0.08
Laminin beta-1	LAMB1	Basement membrane	0.34	0.02	—	—	—	—	0.08	—	0.06
Laminin beta-2	LAMB2	Basement membrane	0.07	0.02	—	—	—	—	0.07	—	0.08
Laminin gamma-1	LAMC1	Basement membrane	3.49	0.06	—	—	—	—	0.13	—	0.12
Nidogen 1/2 (osteonidogen)(Nid1/2)	NID1/2	Basement membrane	1.29	—	—	—	—	—	—	—	—
Nidogen-1	NID1	Basement membrane	5.19	0.02	—	—	—	—	0.09	—	0.07
Perlecan	HSPG2	Basement membrane	2.55	—	—	—	—	—	—	—	—
Agrin	AGRN	Basement membrane	0.01	—	—	—	—	—	—	—	—
Total basement membrane			16.76	6.43	3.23	1.42	1.92	—	6.81	3.38	6.09
Collagen alpha-1(I) chain	COL1A1	Fibrillar collagen	29.94	41.56	61.08	59.17	54.46	—	48.61	53.84	52.18
Collagen alpha-1(I) chain(fragment)	COL1A1*	Fibrillar collagen	9.30	13.69	7.65	8.68	13.35	—	10.92	11.00	9.40
Collagen alpha-1(V) chain	COL5A1	Fibrillar collagen	1.04	0.66	0.75	0.95	1.27	—	0.36	0.64	0.37
Collagen alpha-2(I) chain	COL1A2	Fibrillar collagen	17.82	31.48	26.23	28.36	26.94	—	22.13	25.00	22.40
Collagen alpha-2(V) chain	COL5A2	Fibrillar collagen	0.42	1.24	0.74	0.75	0.57	—	0.70	0.71	0.76
Total fibrillar collagen			58.53	88.62	96.45	97.92	96.59	—	82.73	91.20	85.10
Collagen alpha-1(VI) chain	COL6A1	Matricellular	4.94	1.66	0.15	0.42	0.88	—	2.49	3.71	1.76
Collagen alpha-1(XVIII) chain	COL18A1	Matricellular	0.11	0.01	—	—	—	—	0.01	—	0.01
Collagen alpha-2(VI) chain	COL6A2	Matricellular	2.83	0.65	0.03	0.06	0.06	—	2.69	1.27	2.14
Collagen alpha-3(VI) chain	COL6A3	Matricellular	6.04	0.35	—	—	—	—	1.01	—	0.73
Dermatopontin	DPT	Matricellular	0.51	0.26	0.07	0.13	0.50	—	0.16	0.21	0.17
Emilin 1	EMILIN1	Matricellular	0.07	—	—	—	—	—	—	—	—
Fibronectin 1	FN1	Matricellular	1.25	—	—	—	—	—	—	—	—
Fibulin 3	EFEMP1	Matricellular	0.06	—	—	—	—	—	—	—	—
Fibulin 4	EFEMP2	Matricellular	0.01	—	—	—	—	—	—	—	—
Fibulin 5	FBLN5	Matricellular	1.06	—	—	—	—	—	—	—	—
Lumican	LUM	Matricellular	1.44	0.60	0.06	0.05	0.03	—	0.94	0.07	1.07
Periostin	POSTN	Matricellular	0.07	—	—	—	—	—	—	—	—
Prolargin	PRELP	Matricellular	0.62	0.36	—	—	—	—	0.52	—	0.52
TnxB protein	TNXB	Matricellular	0.01	—	—	—	—	—	—	—	—
Total matricellular proteins			19.02	3.89	0.32	0.65	1.48	—	7.83	5.27	6.39
Biglycan	BGN	Structural ECM	0.20	0.05	—	—	—	—	0.14	—	0.12
Decorin	DCN	Structural ECM	1.54	0.55	—	—	—	—	1.44	—	1.42
Fibrillin 1	FBN1	Structural ECM	0.04	0.04	—	0.01	0.01	—	0.39	0.16	0.27
Fibrillin 2	FBN2	Structural ECM	0.22	—	—	—	—	—	—	—	—
Total structural ECM			2.00	0.64	—	0.01	0.01	—	1.97	0.16	1.81

(continued)

SUPPLEMENTARY TABLE S1. (CONTINUED)

<i>Protein</i>	<i>Gene</i>	<i>Functional classification</i>	<i>Fresh pancreas</i>	% (vs. Total ECM proteins)													
				<i>1% Triton</i>	<i>1% SDS</i>	<i>0.5% SDS</i>	<i>0.1% SDS</i>	<i>1% Triton-PI-Dec</i>	<i>0.1% SDS-PI-Dec</i>	<i>1% Triton-PI-Dec</i>	<i>0.1% SDS-PI-Dec</i>	<i>1% Triton-PI-Dec</i>					
Collagen alpha-1(XII) chain	COL12A1	FACIT collagen	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Collagen alpha-1(XIV) chain	COL14A1	FACIT collagen	1.32	0.01	—	—	—	—	—	—	—	—	0.08	—	—	—	0.05
TOT FACIT collagen			1.42	0.01	—	—	—	—	—	—	—	—	0.08	—	—	—	0.05
Annexin A2	ANXA2	Other ECM	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Asporin	ASP1	Other ECM	0.16	0.11	—	—	—	—	—	—	—	—	0.22	—	—	—	0.18
Extracellular matrix protein 1	ECM1	Other ECM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Galectin-1	LGALS1	Other ECM	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Galectin-3	LGALS3	Other ECM	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mimectan/osteoglycin	OGN	Other ECM	0.87	0.30	—	—	—	—	—	—	—	—	0.36	—	—	—	0.37
Total other ECMs			2.27	0.41	—	—	—	—	—	—	—	—	0.58	—	—	—	0.55

\*indicates a different collagen isoform.  
ECM, extracellular matrix; PI, protease inhibitor; SDS, sodium dodecyl sulfate.