

Table S6. Proteins detected in the secretion profile analysis of MenSCs. C - protein secreted by control MenSCs, 6d - proteins secreted by decidualized MenSCs

Process	Protein	Healthy donors	Patients with unexplained infertility	Process	Protein	Healthy donors	Patients with unexplained infertility
		Ratio 6d/C	Ratio 6d/C			Ratio 6d/C	Ratio 6d/C
GO:0007566 embryo implantation, GO:0007565 female pregnancy	IGFBP7	6.36	10.35	hsa04915 Estrogen signaling pathway	HspA8	0.165	0.24
	IGFBP4	2.32	5.42		Hsp90aa1	0.24	0.18
	FBLN1	0.665	0.72		Hspa11	0.13	0.07
	Timp1	0.455	1.14		Mmp2	1.975	2.22
	Timp2	3.135	5.57		Krt9	1.44	2.09
	FSTL1	2.29	2.22	hsa04926 Relaxin signaling pathway	Col3a1	0.685	1.3
	PZP	11.98	26.61		Col1a2	7.23	5.27
	Vim	0.77	0.85		Col4a2	1.87	2.15
GO:0031532 actin cytoskeleton reorganization	GSN	0.455	2.25	hsa04540 Gap junction, hsa04530 Tight junction	Mmp1	-	1.775
	Actn1	0.15	0.11		Actn4	-	0.073
	Fn1	2.3	1.39		Tuba1c	0.115	0.17
	Myh9	0.61	0.86		Tubb1	0.115	0.17
	Vcl	0.395	0.2	hsa00010 Glycolysis/ Gluconeogenesis	Ldha	-	0.09
	Ezr	0.015	0.06		Pkm	0.07	0.19
Fga	0.12	0.14	Eno2		-	0.19	
F10	4.85	1.13	Aldoa		1.02	1.08	
hsa04610 Complement and coagulation cascades	Serpine1	0.94	0.4	hsa00010 Glycolysis/ Gluconeogenesis	GAPDH	2.09	2.33
	Serpinf2	-	0.19		GO:0016525 negative regulation of angiogenesis	Thbs2	6.8
	CFI	0.335	0.32	Thbs1		3.6	1.32
	Plg	0.52	0.15	hsa04512 ECM-receptor interaction	Col6a1	0.66	0.66
	C8b	0.23	0.49		Col6a3	0.395	0.86
	F5	0.56	2.6		Actn1	0.15	0.11
	C3	0.2	0.29		Flna	0.045	0.64
	C4a	0.16	0.18		Tln1	0.07	0.10
	Vtn	0.85	1.05				
	C5	0.1	0.13				
	C7	1.68	1.88				
	A2M	0.08	0.12				