

Dataset 1: Protein expression profile in diabetic oocytes.

Green, down regulated proteins in diabetic oocytes.

Red, up regulated proteins in diabetic oocytes.

GI	Symbol	FullName
33859624	S100A4	S100 calcium binding protein A4
226246531	PGK2	phosphoglycerate kinase 2
134023662	SFN	stratifin
6755923	UBA1Y	ubiquitin-activating enzyme, Chr Y
6678103	SERPINB5	serine (or cysteine) peptidase inhibitor, clade B, member 5
269914154	4732456N10RIK	RIKEN cDNA 4732456N10 gene
443497949	ENO3	enolase 3, beta muscle
124244098	ALPPL2	alkaline phosphatase, placental-like 2
498752597	NA	hemoglobin subunit beta-1 [Mus musculus]
17647499	NA	hemoglobin subunit beta-2 [Mus musculus]
124248512	CPS1	carbamoyl-phosphate synthetase 1
6755392	S100A6	S100 calcium binding protein A6 (calcyclin)
119433657	HIST2H2AB	histone cluster 2, H2ab
157277946	VMN2R4	vomeronasal 2, receptor 4
14861854	KRT7	keratin 7
21450321	NA	sodium/potassium-transporting ATPase subunit alpha-3 [Mus r
254540068	KRT18	keratin 18
19527116	PSPH	phosphoserine phosphatase
13386452	HIST3H2BA	histone cluster 3, H2ba
21322238	CABP7	calcium binding protein 7
347582617	S100A13	S100 calcium binding protein A13
482677666	TPM2	tropomyosin 2, beta
124486702	A1BG	alpha-1-B glycoprotein
7305599	TTR	transthyretin
124487139	FLNC	filamin C, gamma
124487323	ALPI	alkaline phosphatase, intestinal
124339829	HSPA1A	heat shock protein 1A
46879190	EDIL3	EGF-like repeats and discoidin I-like domains 3
30061327	HIST1H2AH	histone cluster 1, H2ah
7106335	KRT17	keratin 17
10946578	TMSB4X	thymosin, beta 4, X chromosome
225903450	HGH1	HGH1 homolog
254553348	PFKM	phosphofructokinase, muscle
22122833	GPR1	G protein-coupled receptor 1
33468885	CACYBP	calcyclin binding protein
86476054	VGF	VGF nerve growth factor inducible
51092303	GM5409	predicted pseudogene 5409
6680117	GSS	glutathione synthetase
145301549	HBA-A1	hemoglobin alpha, adult chain 1
85861229	GTF3C2	general transcription factor IIIC, polypeptide 2, beta
110625757	POLR2I	polymerase (RNA) II (DNA directed) polypeptide I
6755196	PSMA4	proteasome (prosome, macropain) subunit, alpha type 4
21311939	CMTR1	cap methyltransferase 1
30794412	TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-asso
407264682	NA	PREDICTED: alpha-1-antitrypsin 1-1 isoform 2 [Mus musculus]
51010909	TRY5	trypsin 5

21362321	RNF126	ring finger protein 126
6671549	PRDX6	peroxiredoxin 6
158749553	SF3A2	splicing factor 3a, subunit 2
28461135	HSPA12A	heat shock protein 12A
111185930	TMPRSS13	transmembrane protease, serine 13
130503301	SERPINA3N	serine (or cysteine) peptidase inhibitor, clade A, member 3N
270309161	PDCD4	programmed cell death 4
22122737	KCTD15	potassium channel tetramerisation domain containing 15
157951596	CAR2	carbonic anhydrase 2
51317401	PIR	pirin
188497724	HDGF	hepatoma-derived growth factor
6754304	IFNB1	interferon beta 1, fibroblast
157951676	APOA2	apolipoprotein A-II
70778915	MSN	moesin
9789999	GKAP1	G kinase anchoring protein 1
163310765	ALB	albumin
13386186	CNOT8	CCR4-NOT transcription complex, subunit 8
224809563	NUCKS1	nuclear casein kinase and cyclin-dependent kinase substrate 1
124430543	SRI	sorcin
6754508	LASP1	LIM and SH3 protein 1
61743961	AHNAK	AHNAK nucleoprotein (desmoyokin)
117606270	NME2	NME/NM23 nucleoside diphosphate kinase 2
166706889	TCF20	transcription factor 20
309264544	NA	PREDICTED: signal recognition particle 14 kDa protein-like [Mus
309265057	NA	PREDICTED: protein S100-A11-like isoform 1 [Mus musculus]
7305107	GRCC10	gene rich cluster, C10 gene
157951598	CAPN2	calpain 2
113930726	PTX3	pentraxin related gene
110347606	UROD	uroporphyrinogen decarboxylase
62460366	PTMS	parathymosin
226531069	ITIH4	inter alpha-trypsin inhibitor, heavy chain 4
67846103	SHMT1	serine hydroxymethyltransferase 1 (soluble)
16716569	PRSS1	protease, serine 1 (trypsin 1)
40254595	DPYSL2	dihydropyrimidinase-like 2
30425122	FAM118B	family with sequence similarity 118, member B
357527384	GSTZ1	glutathione transferase zeta 1 (maleylacetoacetate isomerase)
13386014	EMC4	ER membrane protein complex subunit 4
74096448	NA	fatty acyl-CoA reductase 1 [Mus musculus]
6678768	MARCKS	myristoylated alanine rich protein kinase C substrate
13385260	ACOT13	acyl-CoA thioesterase 13
10181184	ATP5J2	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit
6678257	TCL1	T cell lymphoma breakpoint 1
253795498	DEK	DEK oncogene (DNA binding)
88853581	EWSR1	Ewing sarcoma breakpoint region 1
7304927	BCL2L10	Bcl2-like 10
171184435	PTPLAD1	protein tyrosine phosphatase-like A domain containing 1
13128964	RAB27A	RAB27A, member RAS oncogene family
162417949	LRRFIP1	leucine rich repeat (in FLII) interacting protein 1
9937988	SCAMP5	secretory carrier membrane protein 5
7710018	STOM	stomatin

6679493	PSEN1	presenilin 1
6678329	TGM2	transglutaminase 2, C polypeptide
31560090	PLBD2	phospholipase B domain containing 2
21312012	NDUFA8	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8
160707990	CTSC	cathepsin C
13385134	SPCS2	signal peptidase complex subunit 2 homolog (S. cerevisiae)
33563246	CAST	calpastatin
41282044	SYPL	synaptophysin-like protein
33859809	FGB	fibrinogen beta chain
254939708	UNC80	unc-80 homolog (C. elegans)
54607171	KRT6A	keratin 6A
19745150	CYB5R3	cytochrome b5 reductase 3
6679767	FDXR	ferredoxin reductase
19527026	LRRC59	leucine rich repeat containing 59
112734855	TOP1	topoisomerase (DNA) I
110626167	ACOT6	acyl-CoA thioesterase 6
9845257	HIST1H1C	histone cluster 1, H1c
253970508	SCPEP1	serine carboxypeptidase 1
6679765	FDX1	ferredoxin 1
21312968	SSR3	signal sequence receptor, gamma
110625719	HINT2	histidine triad nucleotide binding protein 2
33468849	OVGP1	oviductal glycoprotein 1
20149726	CDS2	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase)
10946798	NAP1L5	nucleosome assembly protein 1-like 5
165932368	STAT5B	signal transducer and activator of transcription 5B
6680606	KRT19	keratin 19
294997245	HIST1H2BC	histone cluster 1, H2bc
145275191	ABCC6	ATP-binding cassette, sub-family C (CFTR/MRP), member 6
6679863	FXN	frataxin
6680552	NAPSA	napsin A aspartic peptidase
171543897	PARP12	poly (ADP-ribose) polymerase family, member 12
268607524	4930433111RIK	RIKEN cDNA 4930433111 gene
6679369	PLA2G4A	phospholipase A2, group IVA (cytosolic, calcium-dependent)
21426893	HIST1H1B	histone cluster 1, H1b
113205059	YBX1	Y box protein 1
86990450	MYO1B	myosin IB
21426823	HIST1H1A	histone cluster 1, H1a
6680720	ARF4	ADP-ribosylation factor 4
62526118	CKAP4	cytoskeleton-associated protein 4
283945579	H2AFY	H2A histone family, member Y
37574048	UQCR10	ubiquinol-cytochrome c reductase, complex III subunit X
158517825	APOC1	apolipoprotein C-I
13384766	TMEM14C	transmembrane protein 14C
306482623	HIST1H4A	histone cluster 1, H4a
110625696	CTHRC1	collagen triple helix repeat containing 1
13430890	HIST1H1E	histone cluster 1, H1e
31543330	NNT	nicotinamide nucleotide transhydrogenase
148747566	CYP11A1	cytochrome P450, family 11, subfamily a, polypeptide 1
7305453	S100A8	S100 calcium binding protein A8 (calgranulin A)
251823855	VNN1	vanin 1

124286797	PLET1	placenta expressed transcript 1
254588110	HIST1H1D	histone cluster 1, H1d
27777683	GRAMD1B	GRAM domain containing 1B
6680289	HSD3B1	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid de
30061345	HIST1H3A	histone cluster 1, H3a
158517818	TMEM141	transmembrane protein 141

Score	Coverage	STZ/Control	log2(STZ/Control)	P-value
88,32	16,83	0,301	-1,732	0
185,47	17,75	0,307	-1,703	0
385,8	17,74	0,312	-1,681	0
251,57	7,09	0,315	-1,668	0
36,3	1,87	0,336	-1,572	0
122,81	14,5	0,349	-1,517	0
409,12	9,22	0,35	-1,515	0
43,02	1,7	0,39	-1,36	0
728,02	42,86	0,393	-1,347	0
737,24	59,18	0,424	-1,239	0
140,24	5,13	0,433	-1,207	0
54,96	26,97	0,461	-1,117	0
257,34	13,85	0,479	-1,062	0
0	0,85	0,483	-1,051	0
159,83	11,16	0,503	-0,992	0
404,94	12,92	0,504	-0,988	0
279,46	17,02	0,506	-0,982	0
30,28	3,56	0,52	-0,942	0
376,13	42,86	0,531	-0,913	0
0	3,26	0,545	-0,875	0
0	4,38	0,547	-0,871	0
133,28	25,7	0,551	-0,859	0
28,13	1,17	0,554	-0,851	0
45,82	8,84	0,58	-0,787	0
192,53	3,08	0,584	-0,776	0
40,34	4,51	0,591	-0,758	0
762,99	21,53	0,592	-0,756	0
0	2,13	0,593	-0,754	0
262,93	17,97	0,62	-0,69	0
246,16	15,01	0,624	-0,68	0
0	29,55	0,629	-0,668	0
0	2,04	0,639	-0,646	0
110,67	6,28	0,648	-0,627	0
24,56	2,55	0,648	-0,626	0
86,97	24,02	0,649	-0,623	0
0	3,08	0,653	-0,614	0
78,26	4,07	0,662	-0,596	0
35,66	1,69	0,67	-0,578	0
637,8	30,99	0,674	-0,57	0
0	0,77	0,677	-0,563	0
0	10,4	0,679	-0,559	0
93,62	13,03	0,682	-0,552	0
37,26	1,19	0,682	-0,551	0
61,07	4,13	0,687	-0,542	0
76,07	10,44	0,689	-0,537	0
19,61	8,13	0,692	-0,531	0

0	2,56	0,693	-0,528	0
158,46	27,68	0,698	-0,518	0
18,66	1,65	0,699	-0,516	0
25,02	2,07	0,711	-0,493	0
21,16	1,46	0,713	-0,489	0
130,53	7,89	0,717	-0,481	0
33,34	2,35	0,719	-0,476	0
0	3,53	0,72	-0,473	0
45,26	3,85	0,721	-0,473	0
29,67	3,1	0,721	-0,472	0
127,11	23,21	0,722	-0,471	0
0	7,14	0,726	-0,461	0,001
83,79	18,63	0,727	-0,461	0,001
496,37	16,98	0,727	-0,461	0,001
45,83	2,46	0,729	-0,457	0,001
2341,89	42,27	0,733	-0,449	0,001
0	3,77	0,733	-0,448	0,001
62,78	3,86	0,734	-0,446	0,001
75	16,94	0,736	-0,443	0,001
70,48	8,75	0,737	-0,441	0,001
161,2	14,5	0,74	-0,435	0,001
268,58	42,11	0,74	-0,434	0,001
0	1,27	0,743	-0,429	0,001
68,26	7,27	0,744	-0,426	0,001
0	10,42	0,745	-0,425	0,001
64,5	11,9	0,746	-0,423	0,001
44,72	1,14	0,746	-0,422	0,001
43,31	3,15	0,749	-0,417	0,002
35,39	2,72	0,749	-0,416	0,002
130,15	10,89	0,751	-0,413	0,002
103,21	4,25	0,751	-0,412	0,002
31,74	4,18	0,753	-0,409	0,002
18,76	8,13	0,754	-0,407	0,002
126,35	10,31	0,755	-0,406	0,002
0	2,91	0,755	-0,405	0,002
19,5	6,21	0,758	-0,4	0,002
38,83	8,74	1,327	0,408	0,004
45,59	3,88	1,33	0,411	0,004
32,93	6,15	1,33	0,412	0,004
69,81	11,43	1,334	0,416	0,004
34,32	13,64	1,335	0,416	0,004
100,48	26,72	1,337	0,419	0,004
77,2	11,05	1,34	0,422	0,003
58,3	2,29	1,342	0,424	0,003
217,53	28,8	1,351	0,434	0,003
87,34	6,08	1,353	0,436	0,003
29,6	4,07	1,354	0,438	0,002
80,77	5,49	1,357	0,441	0,002
108,5	8,09	1,358	0,442	0,002
36,31	2,46	1,358	0,442	0,002

40,48	4,07	1,364	0,447	0,002
34,99	2,19	1,367	0,451	0,002
25,94	2,02	1,369	0,453	0,002
59,11	14,53	1,373	0,458	0,002
48,07	2,6	1,376	0,461	0,002
58,42	18,14	1,38	0,464	0,001
0	1,06	1,392	0,477	0,001
123,41	4,53	1,392	0,477	0,001
38,23	2,91	1,393	0,478	0,001
23,72	0,21	1,393	0,478	0,001
274,12	18,08	1,396	0,482	0,001
227,82	24,58	1,397	0,482	0,001
169,06	15,38	1,401	0,486	0,001
49,18	5,54	1,401	0,487	0,001
129,1	4,69	1,417	0,503	0,001
0	2,86	1,44	0,526	0
505,96	42,45	1,442	0,528	0
0	2,88	1,451	0,537	0
101,48	23,94	1,459	0,545	0
40,32	7,57	1,467	0,553	0
64,35	13,5	1,471	0,557	0
426,86	11,1	1,48	0,565	0
62,89	4,28	1,483	0,569	0
38,29	6,41	1,493	0,578	0
47,14	1,27	1,494	0,579	0
164,74	11,17	1,503	0,588	0
459,79	54,76	1,51	0,595	0
26,19	0,87	1,516	0,6	0
120,84	11,11	1,521	0,605	0
50,99	5,73	1,527	0,61	0
43,27	1,41	1,528	0,612	0
25,65	1,11	1,531	0,615	0
62,16	3,07	1,532	0,616	0
560,38	35,43	1,551	0,633	0
249,88	18,63	1,588	0,667	0
32,41	2,35	1,59	0,669	0
283,45	17,37	1,597	0,676	0
152,79	15	1,601	0,679	0
132,62	8,35	1,607	0,685	0
33,16	10,87	1,613	0,69	0
76,2	26,56	1,639	0,713	0
47,92	18,18	1,643	0,716	0
35,88	9,65	1,645	0,718	0
488,7	52,43	1,652	0,725	0
43,24	6,53	1,667	0,737	0
648,44	46,12	1,688	0,756	0
70,8	3,68	1,706	0,771	0
28,1	2,47	1,753	0,81	0
34,95	7,87	1,768	0,822	0
85,76	3,71	1,789	0,839	0

153,12	7,59	1,827	0,87	0
677,43	46,15	1,891	0,919	0
51,48	1,25	1,994	0,996	0
95,11	10,99	2,064	1,045	0
356,04	42,65	2,191	1,132	0
0	29,87	2,21	1,144	0