

Supplementary Table 1. Upregulation (115 genes) and downregulation (159 genes) in expression of individual mRNAs in diabetic bladder

Gene	Fold change	P-value
Rnase2	20.678	0.015
Sgcg	12.174	0.004
Thbs1	9.745	0.002
Ccl6	8.150	0.013
Ntsr2	8.139	0.002
Rgs1	7.531	0.018
Tnnc1	6.810	0.049
Pthlh	6.173	0.000
Tnfaip6	6.063	0.000
Prc1	5.780	0.000
Asgr2	5.512	0.001
Il17b	4.835	0.004
Scgb1a1	4.304	0.010
Ngf	4.298	0.026
LOC686120	4.288	0.000
Pigr	4.254	0.001
Cpa4	4.204	0.007
Tnfrsf12a	4.192	0.006
Fam107a	4.142	0.012
Sugct	4.019	0.021
Vcan	3.927	0.035
Casq2	3.844	0.000
Mt3	3.739	0.001
Serpine2	3.672	0.004
Ccl3	3.640	0.002
Rnd3	3.586	0.017
Traf3ip3	3.579	0.015
Prom1	3.497	0.019
Rn5-8s	3.487	0.006
Foxs1	3.385	0.006
Col8a1	3.319	0.011
Rgcc	3.261	0.006
Tppp3	3.219	0.008
Vwf	3.190	0.017
Lox11	3.148	0.029
MGC105649	3.133	0.012
Lbp	3.075	0.008
Rn5-8s	3.066	0.005
LOC100362783	3.005	0.028
Plac8	2.926	0.001
Angptl4	2.917	0.002
Itga8	2.911	0.006
Has1	2.873	0.008
Tbx18	2.838	0.035
Slc41a2	2.817	0.017
Itga5	2.817	0.002
Cyp26b1	2.806	0.010
Eno4	2.775	0.001
Islr	2.770	0.043
Des	2.769	0.004
Fam111a	2.758	0.040
Srpx2	2.737	0.009
Crip1	2.733	0.023

Actc1	2.717	0.007
Tnfrsf11b	2.691	0.044
Limch1	2.668	0.001
Rn5-8s	2.658	0.006
Cdc7	2.642	0.009
Rbm3	2.633	0.001
Actg2	2.619	0.000
Kif22	2.609	0.030
Itgb1bp2	2.593	0.002
Ccl2	2.560	0.006
Ackr2	2.542	0.001
Trem2	2.538	0.050
Flnc	2.438	0.018
Foxa1	2.481	0.018
Sncg	2.474	0.016
Fhl1	2.465	0.013
Gja5	2.465	0.001
Ppmla	2.442	0.048
Wfdc1	2.432	0.027
RGD1561849	2.428	0.015
Lurap11	2.409	0.006
Slfn3	2.351	0.017
Lyve1	2.328	0.016
Eno3	2.325	0.010
Pdlim3	2.298	0.000
Pls1	2.298	0.037
Mustn1	2.297	0.001
Apol9a	2.295	0.034
Rn5-8s	2.264	0.011
Cnksr3	2.258	0.045
LOC498276	2.246	0.008
Usp29	2.246	0.027
Hsd11b1	2.245	0.034
Fhod1	2.218	0.028
LOC100363531	2.204	0.028
Tfrc	2.202	0.006
Cnn1	2.194	0.003
Lingo4	2.150	0.013
Zw10	2.125	0.021
Rasl12	2.125	0.008
Hdhd2	2.123	0.031
Gjc2	2.123	0.013
Arg1	2.114	0.014
Atp10a	2.095	0.025
Aldoart2	2.078	0.007
LOC367117	2.077	0.010
Scn1b	2.077	0.002
Cpe	2.077	0.002
Npw	2.075	0.030
Mvd	2.070	0.048
Ppp1r12b	2.062	0.006
Fam168a	2.054	0.033
Fcgr2a	2.048	0.035
RT1-A1	2.041	0.036
Inhba	2.033	0.023
Adamts1	2.028	0.008
Emp1	2.027	0.044

Ptgis	2.027	0.008
Ifi27l2b	2.020	0.046
Rraga	2.010	0.010
Maff	2.005	0.003
Igfbp3	-16.615	0.019
Rxrg	-10.216	0.019
Plcx3	-8.390	0.030
Mcpt1	-8.354	0.012
Trdn	-8.185	0.015
Cypl1a1	-7.819	0.002
Atp1a2	-7.340	0.003
Nefl	-7.243	0.047
Ces1f	-6.801	0.033
Ngb	-6.256	0.005
Stmn2	-6.119	0.016
Ccl11	-6.117	0.003
Aldh3a1	-5.314	0.042
Fst	-4.709	0.019
Vtn	-6.693	0.001
Gdap1	-4.621	0.022
Efnb3	-4.494	0.013
Ston2	-4.449	0.005
Wwox	-4.406	0.002
Havcr2	-4.393	0.022
Zbtb16	-4.349	0.002
Fn3k	-4.342	0.046
Fat3	-4.338	0.026
Hemgn	-4.262	0.010
Nkap1	-4.233	0.023
Gfra1	-4.221	0.003
Asic4	-4.220	0.001
Cdkn1c	-4.200	0.001
Chodl	-4.089	0.028
C1ptnf3	-4.035	0.020
Dll1	-4.023	0.017
Grin2c	-3.993	0.006
Lonp2	-3.980	0.022
Gdf10	-3.916	0.042
Ptn	-3.879	0.026
Pik3r1	-3.854	0.009
Ndp	-3.827	0.018
Pcdh9	-3.768	0.044
Il2rb	-3.583	0.009
Gucy1a3	-3.532	0.001
Fbxl20	-3.522	0.014
Mcpt8	-3.509	0.005
Lekr1	-3.497	0.008
Cntln	-3.440	0.011
Kifc2	-3.372	0.021
LOC102549720	-3.363	0.011
Foxh1	-3.325	0.036
Dkk2	-3.278	0.030
Dcaf12	-3.192	0.011
Sall2	-3.174	0.002
Lonrf3	-3.153	0.037
RGD1305645	-3.129	0.043

Cyp2u1	-3.093	0.027
Rmrp	-3.093	0.048
Mis12	-3.090	0.023
Nptxr	-3.028	0.008
Unc5c	-3.026	0.039
Arhgap4	-2.991	0.001
Kcnk3	-2.985	0.031
Stc1	-2.972	0.039
Cage1	-2.951	0.010
Fam210b	-2.936	0.008
Plscr4	-2.929	0.044
Sox5	-2.918	0.034
Sfrp2	-2.914	0.041
Phkb	-2.854	0.029
Slco2a1	-2.837	0.018
Spin2a	-2.784	0.020
LOC683722	-2.778	0.013
Klf15	-2.777	0.005
Manea	-2.773	0.015
Rgs2	-2.773	0.014
Gria3	-2.764	0.031
Inha	-2.755	0.030
Pou3f1	-2.737	0.017
Otud4	-2.729	0.041
Fyb	-2.716	0.048
Lgans5	-2.693	0.047
Ephb6	-2.672	0.042
Osbp2	-2.658	0.017
Map3k9	-2.632	0.032
Syt1	-2.614	0.003
Gimap7	-2.590	0.010
RT1-Db1	-2.577	0.011
Tube1	-2.552	0.025
Gzmm	-2.549	0.021
Car9	-2.547	0.030
Akna	-2.531	0.047
Jade2	-2.530	0.033
C3	-2.529	0.022
Slc4a4	-2.507	0.014
Hist1h2an	-2.496	0.038
Abcg3l3	-2.495	0.050
Ptbp3	-2.479	0.041
Scl43a1	-2.466	0.011
Mcu	-2.462	0.022
Akap8l	-2.460	0.026
Dlx4	-2.452	0.016
Rps19bp1	-2.446	0.020
Car7	-2.437	0.015
Col4a4	-2.427	0.031
Wisp3	-2.424	0.046
Slitrk6	-2.404	0.041
Car11	-2.403	0.032
Cd74	-2.403	0.006
Zfp275	-2.388	0.044
Myoz1	-2.371	0.046
Zbtb10	-2.364	0.001
Lrrtm3	-2.350	0.016

Sertad3	-2.325	0.049
Nkg7	-2.319	0.043
Cdh6	-2.315	0.032
Cblb	-2.311	0.018
Parvb	-2.309	0.030
Abcc9	-2.308	0.048
Rcor3	-2.306	0.043
Plin1	-2.303	0.012
Cripld2	-2.298	0.021
Atp2a3	-2.288	0.007
Apbb3	-2.283	0.019
Lrrc51	-2.266	0.032
Lyst	-2.260	0.032
Itm2a	-2.253	0.013
Ncam1	-2.204	0.014
Plxna3	-2.196	0.025
Fance	-2.193	0.008
Fam198b	-2.177	0.033
Mab2112	-2.175	0.005
Arhgap15	-2.164	0.002
Fbln5	-2.163	0.020
Creb311	-2.156	0.015
Syce3	-2.147	0.049
Parn	-2.146	0.040
Bend7	-2.130	0.006
Lppr3	-2.126	0.026
Peg3	-2.122	0.005
Megf9	-2.104	0.045
Ptpdc1	-2.100	0.027
Sptlc3	-2.093	0.006
Lrs3	-2.086	0.033
Gpr88	-2.083	0.031
Kcnab1	-2.081	0.019
Hsd17b1	-2.081	0.008
Cldn11	-2.077	0.035
Zfp385d	-2.076	0.028
Psd	-2.073	0.045
Atp7a	-2.071	0.036
Cdh2	-2.070	0.001
Stxbp5	-2.068	0.018
Clec11a	-2.052	0.011
Slc26a2	-2.052	0.006
Zfp451	-2.041	0.015
Casc1	-2.039	0.012
Alpl	-2.032	0.002
Sbf2	-2.032	0.003
Mettl7b	-2.023	0.020
Marc1	-2.013	0.035
Rsrp1	-2.010	0.017
F8	-2.004	0.030