

ESM Table 2: List of the 20 most highly up- and down-regulated genes (p-value < 0.05) in islets over-expressing Pax4 or Pax4R129W as sorted using the t-statistic algorithm.

Symbol	Pax4 versus Control	Symbol	Pax4R129W versus Control
Lgals9	6.43	4933402P03Rik	7.37
Pax4	6.38	Scn5a	5.93
Nnat	6.05	Olf1045	5.84
Soat1	5.82	Till11	5.54
Nsdhl	5.39	Hapln3	5.44
Pdyn	5.29	Proca1	5.43
Rab8a	5.25	Nudt11	5.34
Cyb5b	5.11	Esyt3	5.31
Mrps21	5.09	Tmem200a	5.24
Rit2	4.98	Edn2	4.93
Rpl37	-4.12	Spry1	-4.90
Rps21	-4.15	Meg3	-4.99
Rps28	-4.27	Snopc3	-5.13
Inmt	-4.28	2610005L07Rik	-5.36
Snord8	-4.36	6820431F20Rik	-5.37
Snora16a	-4.45	6720401G13Rik	-5.39
Snord35b	-5.25	Ddx17	-5.87
4931414P19Rik	-5.40	Ankrd12	-6.16
Snora34	-5.64	Ddx26b	-6.31
Snord104	-8.10	Snora23	-6.33