

ESM Table 8. Clonal analysis from Ubc Cre Rosa Confetti LepR Ip/Ip mice. Total number of islets imaged, total number of contiguous clones counted, total number of labelled cells counted, and the average clone size for pancreatic islets in Ubc Cre Rosa Confetti LepR Ip/Ip mice following a 1- or 6-month washout on a regular chow, or a 6-month washout on a high fat diet (HFD). Contiguous clones analyzed contained 1 to 7 cells. The number of clones containing a given number of cells as percentage of the total number of clones counted. For all islets imaged across three cohorts, no islets were monoclonal (single color islets) in which all cells would be labelled with the same color.

1 month washout																
	Group	ID Number	Sex	#	Total Islets Imaged	Total Contiguous Clones Counted	Total Labelled Cells Counted	Average Clone Size	Number of Clones for Given Size (% of total clones)							Single Color Islets
									1	2	3	4	5	6	7	
LepR KO	Ubc Cre Conf/Conf LepR Ip/Ip	130.4Bl	M	1	34	917	1126	1.23	81.13	15.59	2.62	0.65	0.00	0.00	0.00	0
	Ubc Cre Conf/Conf LepR Ip/Ip	131.1Bl	M	2	16	399	461	1.16	87.97	9.27	2.01	0.75	0.00	0.00	0.00	0
	Ubc Cre Conf/Conf LepR Ip/Ip	141.1Bl	M	3	16	295	328	1.11	89.83	9.15	1.02	0.00	0.00	0.00	0.00	0
	Ubc Cre Conf/Conf LepR Ip/Ip	143.1Bl	M	4	10	237	266	1.12	89.87	8.02	2.11	0.00	0.00	0.00	0.00	0
	Average				19.0	462.0	545.3	1.16	87.20	10.51	1.94	0.35	0.00	0.00	0.00	0.00
	SEM				5.2	155.3	197.8	0.03	2.07	1.72	0.33	0.20	0.00	0.00	0.00	0.00

6 month washout																
	Group	ID Number	Sex	#	Total Islets Imaged	Total Contiguous Clones Counted	Total Labelled Cells Counted	Average Clone Size	Number of Clones for Given Size (% of total clones)							Single Color Islets
									1	2	3	4	5	6	7	
LepR KO	Ubc Cre Conf/Conf LepR Ip/Ip	168.5Bl	M	1	93	821	1161	1.41	72.35	18.64	5.60	2.44	0.61	0.37	0.00	0
	Ubc Cre Conf/Conf LepR Ip/Ip	265.1Bl	M	2	18	708	960	1.36	75.71	16.38	5.51	1.69	0.42	0.28	0.00	0
	Ubc Cre Conf/Conf LepR Ip/Ip	265.2Bl	M	3	58	420	477	1.14	79.52	11.67	2.38	0.24	0.24	0.00	0	
	Ubc Cre Conf/Conf LepR Ip/Ip	265.4Bl	M	4	18	757	978	1.29	78.07	15.98	4.89	0.79	0.26	0.00	0.00	0
	Ubc Cre Conf/Conf LepR Ip/Ip	265.5Bl	M	5	25	449	537	1.20	84.63	12.03	2.67	0.45	0.22	0.00	0.00	0
	Average				42.4	631.0	822.6	1.28	78.06	14.94	4.21	1.12	0.35	0.18	0.00	0.00
	SEM				14.7	82.3	133.9	0.05	2.04	1.34	0.70	0.41	0.07	0.08	0.00	0.00

6 month washout on a HFD																
	Group	ID Number	Sex	#	Total Islets Imaged	Total Contiguous Clones Counted	Total Labelled Cells Counted	Average Clone Size	Number of Clones for Given Size (% of total clones)							Single Color Islets
									1	2	3	4	5	6	7	
LepR KO	Ubc Cre Conf/Conf LepR Ip/Ip	351.1Bl	M	1	22	827	999	1.21	85.13	10.52	3.14	0.85	0.36	0.00	0.00	0
	Ubc Cre Conf/Conf LepR Ip/Ip	351.2Bl	M	2	17	611	724	1.18	85.76	10.97	2.29	0.98	0.00	0.00	0.00	0
	Ubc Cre Conf/Conf LepR Ip/Ip	351.3Bl	M	3	22	831	1012	1.22	84.60	11.07	3.25	0.48	0.36	0.12	0.12	0
	Average				20.3	756.3	911.7	1.20	85.16	10.85	2.89	0.77	0.24	0.04	0.04	0.00
	SEM				1.7	72.7	93.9	0.01	0.34	0.17	0.30	0.15	0.12	0.04	0.04	0.00