

Table S1 Summary of experiments

factors	exp. No.	lot No.	MEF	number of cells	total colonies	established clones	integration free clones
3F	1	1	B6 x B6	7.5×10^5	3	0	0
		2		7.5×10^5	4	0	0
		3		1.5×10^6	15	0	0
		4		1.5×10^6	6	0	0
		5		7.5×10^5	23	4	3
		6		2.6×10^6	1	1*	0
		7		7.5×10^5	8	0	0
		8		7.5×10^5	8	0	0
	2	9	B6 x B6	3.75×10^5	1	1	0
		10		3.75×10^5	0	0	0
		11		3.75×10^5	0	0	0
		12		3.75×10^5	0	0	0
		13		3.75×10^5	0	0	0
		14		3.75×10^5	1	1	0
		15		3.75×10^5	0	0	0
		16		3.75×10^5	1	1	0
	3	17	B6-Tg(CAG-EGFP) x B6-Tg(CAG-EGFP)	3.75×10^5	1	0	0
		18		3.75×10^5	5	2	2
		19		3.75×10^5	1	1	0
		20		3.75×10^5	1	0	0
		21		3.75×10^5	0	0	0
		22		3.75×10^5	0	0	0
		23		3.75×10^5	0	0	0
		24		3.75×10^5	0	0	0
	4	25	B6 x B6-Tg(CAG-EGFP)	3.75×10^5	1	1	1
		26		3.75×10^5	0	0	0
		27		3.75×10^5	0	0	0
		28		3.75×10^5	1	0	0
		29		3.75×10^5	0	0	0
		30		3.75×10^5	1	0	0
		31		3.75×10^5	1	0	0
		32		3.75×10^5	1	0	0
		33		3.75×10^5	15	6	6
		34		3.75×10^5	14	6	6
		35		3.75×10^5	1	0	0
		36		3.75×10^5	0	0	0
		37		3.75×10^5	0	0	0
		38		3.75×10^5	0	0	0
		39		3.75×10^5	0	0	0
		40		3.75×10^5	0	0	0
		41		3.75×10^5	0	0	0
	42	3.75×10^5	0	0	0		
	43	3.75×10^5	0	0	0		
	44	3.75×10^5	0	0	0		
	45	3.75×10^5	0	0	0		

		46		3.75×10^5	0	0	0
		47		3.75×10^5	0	0	0
		48		3.75×10^5	0	0	0
		49		3.75×10^5	0	0	0
		total		2.48×10^7	114	23	18
4F	1	1	B6 x B6	7.5×10^5	9	4	1
		2		7.5×10^5	553	12	0
		3		1.5×10^6	125	16	1
		4		1.5×10^6	64	16	0
		5		7.5×10^5	7	0	0
		6		7.5×10^5	13	0	0
		7		7.5×10^5	11	0	0
	2	8	B6 x B6	7.5×10^5	82	8	1
		9		7.5×10^5	29	8	2
		10		7.5×10^5	265	26	0
		11		7.5×10^5	43	18	6
		12		3.75×10^5	53	15	0
		13		3.75×10^5	38	11	0
			total		1.05×10^7	1,292	134

* Clone 2A-3F-2 (Fig.3A and B), which contained short fragment covering the 5' region of Oct3/4, ~1,000bp.