

Table 7: The mutation rates at the YY1 transcription binding sites in Tf subfamily

YY1 binding sites

Mouse L1 with neighboring genes

	activity		activity		activity			activity		Total	CpG	
	+++	CpG	++	CpG	+	CpG		-	CpG			
Total	105	13	58	3	79	6	22	65	20	307	42	
ratio (%)	34.20		18.89		25.73		52.38	21.17	47.62			
mutation of YY1	+/+	91	10	47	2	60	3	15	13	3	211	18
ratio (%)	86.67		81.03		75.95		83.33	20.00	16.67	68.73		
mutation of YY1	+/-	14	3	11	1	19	3	7	52	17	96	24
ratio (%)	13.33		18.97		24.05		29.17	80.00	70.83	31.27		

* 17 L1s have one monomer

* 290 L1s have at least two monomers

Mouse L1 without neighboring genes

	activity		activity		activity			activity		Total	CpG	
	+++	CpG	++	CpG	+	CpG		-	CpG			
Total	190	16	149	5	132	12	33	97	25	568	58	
ratio (%)	33.45		26.23		23.24		56.90	17.08	43.10			
mutation of YY1	+/+	164	11	131	2	103	1	14	34	1	432	15
ratio (%)	86.32		87.92		78.03		93.33	35.05	6.67	76.06		
mutation of YY1	+/-	26	5	18	3	29	11	19	63	24	136	43
ratio (%)	13.68		12.08		21.97		44.19	64.95	55.81	23.94		

* 39 L1s have one monomer

* 529 L1s have at least two monomers