

Table S3. BORIS binding sites in the promoters of unique genes captured by SVA elements.

<u>BORIS binding in promoter</u>		<u>BORIS binding captured by SVA</u>	<u>SVA repeats with captured BORIS binding site</u>		
position	gene	position	position	SVA type	strand
chr17:30,469,223-30,469,744	RHOT1	chr21:15,309,614-15,309,849	chr21:15,306,573-15,309,317	SVA-A	Minus
chr17:30,469,223-30,469,744	RHOT1	chr18:14,221,817-14,222,039	chr18:14,222,333-14,225,661	SVA-A	Plus
chr17:30,469,223-30,469,744	RHOT1	chr13:19412205-19412362	chr13:19,409,920-19,411,923	SVA-A	Minus
chr18:9,102,532-9,102,970	NDUFV2	chr19:53,727,918-53,728,132	chr19:53,725,481-53,726,903	SVA-D	Plus
chr11:110,300,583-110,301,206	FDX1	chr20:33,064,095-33,064,297	chr20:33,061,965-33,063,512	SVA-D	Minus
chr2:128,568,591-128,568,975	WDR33	chr7:1,076,326-1,076,465	chr7:1,076,932-1,079,836	SVA-F	Plus
chrX:71,933,796-71,934,373	PHKA1	chr1:91,359,237-91,359,566	chr1:91,356,737-91,358,141	SVA-D	Minus
chr18:11,908,176-11,908,985	MPPE1	chr22:22,240,215-22,240,328	chr22:22,237,234-22,239,125	SVA-D	Minus
chr10:43,932,055-43,932,807	ZNF487	chr7:77,137,691-77,137,828	chr7:77,137,850-77,139,906	SVA-F	Plus
chr10:43,932,055-43,932,807	ZNF488	chr2:178,809,388-178,809,493	chr2:178,809,585-178,812,513	SVA-F	Plus
chr16:71,757,398-71,758,231	PHLPP2	chr16:48,093,998-48,094,109	chr16:48,092,433-48,093,586	SVA-A	Minus
chr17:17,875,403-17,875,925	TOM1L2	chr3:51,891,479-51,891,585	chr3:51,891,964-51,893,692	SVA-D	Plus
chr7:12,726,284-12,726,673	ARL4A	chr4:40,787,905-40,788,042	chr4:40,789,194-40,789,354	SVA-A	Plus