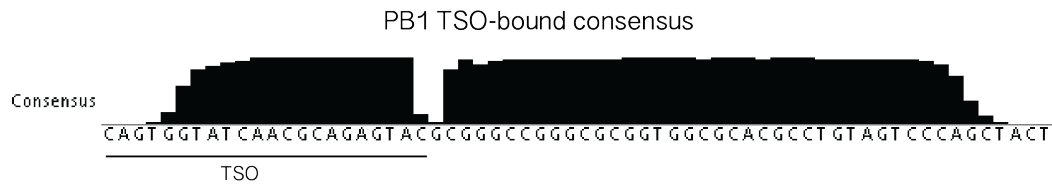


A



B

	TSO	A-box	
TSO-bound	CAGTGGTATCAACGCAGAGTACGCGGGCCGGGCGCGGTGGCGCACGCCTGTAGTCCCAGC	TGGCGCACGCCTGTAGTCCCAGC	60
PB1_repeatmasker	-----AGCCGGGCGCGGTGGCGCACGCCTGTAGTCCCAGC	TGGCGCACGCCTGTAGTCCCAGC	35
B1_repeatmasker	-----AGCCGGGCAGTGGTGGCGCACGCCTTTAATCCCAGC	TGGCGCACGCCTTTAATCCCAGC	36
		* * * * *	

C

PB1_REPMASKER	-----AGCCGGGCGCGGTGGCGCACGCCTGTAGTCCCAGC	35
7SL	-----GCCGGGCGCGGTGGCGCACGCCTGTAGTCCCAGC	34
TSO-BOUND	CAGTGGTATCAACGCAGAGTACGCGGGCCGGGCGCGGTGGCGCACGCCTGTAGTCCCAGC	60
	TSO	*****
PB1_REPMASKER	TACTCGGGAGGCTGAGGCAGGAGGATCACTTGAGTCCAGGAGTTCGAGGCCAGCCTGGGC	95
7SL	TACTCGGGAGGCTGAGACAGGAGGATCGCTTGAGTCCAGGAGTTCGAGGCCAGCCTGGGC	94
TSO-BOUND	TACT-----	64

Supplemental Figure 3. Expressed Proto-B1 sequence in hippocampal neurons

(A) Consensus sequence of the TSO-bound PB1 sequence within hippocampal snRNA-seq data.

(B) Alignment of TSO-bound PB1 consensus sequence from snRNA-seq data, the consensus PB1 sequence from the repeat masker library, and the B1 sequence from the repeat masker library. A-box sequence is noted in red. * = 100% identity between the three sequences. (C) Alignment of the TSO-bound PB1 consensus sequence from snRNA-seq data, the consensus PB1 sequence from the repeat masker library, and the 7SL sequence from the mm10 reference genome. * = 100% identity between the three sequences.