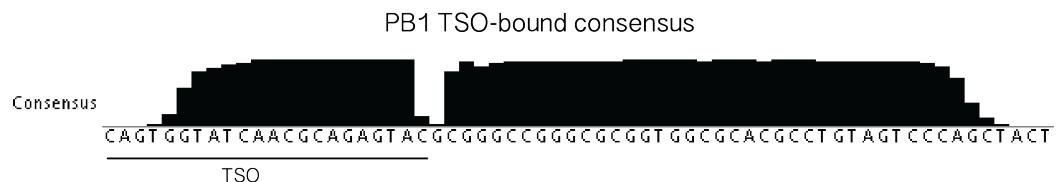


A



B

	TSO	A-box	
TSO-bound	CAGTGGTATCAACGCAGAGTACGGGGCCGGCGGGTGGCGCACGCCGTAGTCCCAGC	GGCGCACGCCGTAGTCCCAGC	60
PB1_repeatmasker	-----AGCCGGGCGCGGGTGGCGCACGCCGTAGTCCCAGC	GGCGCACGCCGTAGTCCCAGC	35
B1_repeatmasker	-----AGCCGGGCAGTGGTGGCGCACGCCGTAGTCCCAGC	GGCGCACGCCGTAGTCCCAGC	36

C

PB1_REPMASKER	-----AGCCGGGCGCGGTGGCGCACGCCGTAGTCCCAGC	35
7SL	-----GCCGGGCGCGGTGGCGCACGCCGTAGTCCCAGC	34
TSO-BOUND	<u>CAGTGGTATCAACGCAGAGTACGGGGCCGGCGGGTGGCGCACGCCGTAGTCCCAGC</u>	60

PB1_REPMASKER	TACTCGGGAGGCTGAGGCAGGAGGATCACTTGAGTCCAGGAGTCGAGGCCAGCCTGGGC	95
7SL	TACTCGGGAGGCTGAGACAGGAGGATCGCTTGAGTCCAGGAGTCGAGGCCAGCCTGGGC	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.