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CAGCAGCAGCAGCAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAAAGCCAGGUU



UUCUAACAUGAAGG-3'

## Supplementary Figure 3: *Ataxin 8 (ATXN8)* open reading frame and flanking sequence.

Sequence analysis of three potential reading frames spanning the SCA8 repeat in CAG direction. Amino acids are indicated by standard one-letter symbols, and asterisks indicate stop codons. Only the polyglutamine-encoding reading frame (boxed on RNA sequence and shaded on amino acid sequence) has an AUG start codon between the last stop codon and the repeat tract. This short ORF [M(Q)n] is immediately followed by successive stop codons.