

Supplementary Table 1. Primer sequences

Primers used for generation of BAC-Exp construct and screening of genomic insert ends

(CTG•CAG)exp fragment	psvfor (5'-GCCACCCTACCAGCCTTACTGTT-3')
	psvrev (5'-GGTGTATGGGAGAACTATATGGGT-3')
left end	CGIfor (5'-ATTCTTCTTCCTCCCGCATT-3')
	CGIrev (5'-TTGAGGGCTAGGCAGAGAGA-3')
right end	CGIIfor (5'-TGATGTGCATTTGGGTTGTT-3')
	CGIIrev (5'-TGGTGGGAATGAAAAATGGT-3')

Primers used for detection of SCA8 CUG transcripts (*ATXN8OS*) containing exon A

1st strand synthesis	primer 2 (5'-CCAGGGTCTAGCCAAGGAAT-3')
1st strand synthesis	primer 1 (5'-AATCAATTCTTTATTCATAAATTCTTA-3')
PCR	primer 5 (5'-AGGGAGGCAAAAGAAAAAGC-3')
	primer 3 (5'-GGAATTGGGAATAGGGCTTC-3')
nested PCR	nested primer 5 (5'-TGAAGCTGTCAAGGTCCTCA-3')
	nested primer 3 (5'-AGTTAATCTCTCCGTGGAAGCTGGG-3')

Primers used for detection of SCA8 CUG transcripts (*ATXN8OS*) ending in exon B'

1st strand synthesis	primer 4 (5'-CTGCTGGCCCTGTAGAGAC-3')
PCR	same as primer 5
	primer 6 (5'-AGAGCAGGGAAGAATGTGGA-3')
nested PCR	same as nested primer 5
	nested primer 6 (5'-GGTTTGGGATGGACCTTCTT-3')

Primers used for detection of SCA8 CAG transcripts (*ATXN8*)

1st strand synthesis	CAG3'rev3 (5'-GAGGAGAGAGGAAGGGAACA-3')
PCR	CAG3'rev2 (5'-CCACCCTACCAGCCTTACTG-3')
	CAG3'for2 (5'-TGGTTAGTCTGGAGCCAAGAA-3')
1st strand synthesis (linker-tailed)	LK-CAG3'rev3 (5'-CGACTGGAGCACGAGGACACTGAGAGGAGAGAGGAAGGGAACA-3')
PCR (linker-tailed)	linker primer (LK) (5'-CGACTGGAGCACGAGGACACTGA-3')
	CAG3'for1 (5'-GGAATTGGGAATAGGGCTTC-3')
nested PCR (linker-tailed)	same as linker primer (LK)
	same as CAG3'for2

Primers used for quantitative RT-PCR

SCA8 CTG transcript (<i>ATXN8OS</i>)	primer 7 (5'-AGAAGGCAGAAGGGCAAGAGAGAGAA-3')
	primer 8 (5'-TTGATGGGGTGGTTGCCATAGAGG-3')
SCA8 CAG transcript (<i>ATXN8</i>)	same as CAG3'for2
	same as CAG3'rev2

Primers used for generation of cDNA constructs for cell culture study

(CTG•CAG)exp fragment with <i>HindIII/XbaI</i> sites	BAC-Con5' (5'-CGAACCAAGCTTATCCCAATTCCTTGGCTAGACCC-3')
	BAC-Con3' (5'-ACCTGCTCTAGATAAATTCTTAAGTAAGAGATAAGC-3')

Primers used for generation of Northern probes

SCA8 CAG transcript (<i>ATXN8</i>)	same as CAG3'for2
	CAG3'rev5 (5'-TTGAGTGTCTCAGTTCTAGGTGCT-3')
murine <i>Klh1</i> transcript	kelchfor (5'-GCAACAGCAGCTCTGTGATGTCATCC-3')
	kelchrev (5'-GTGGTGGGAAGCAGTGGTA-3')

Primers used for 3' RACE analysis of the *ATXN8* transcripts

1st strand synthesis	Gene Racer oligo dT primer (Invitrogen)
PCR	Gene Racer 3' primer (Invitrogen)
	same as CAG3'for2
nested PCR	Gene Racer 3' nested (Invitrogen)
	CAG3'for3 (5' CCCTTCCTCTCTCCTCTTTCA-3')