

Supplemental Data**Spinocerebellar Ataxia Type 31 Is Associated
with “Inserted” Penta-Nucleotide Repeats
Containing (TGGAA)_n**

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Table S1. Primers for RT-PCR analyses.

	Forward Primer (5'>3')	Reverse Primer (5'>3')
BEAN-EXT		
Transcript 1	CACCCTTGGACATCAGCTCT	TGTGGGTCCTAGCGAGTTTC
Transcript 2	TGCCACTCTGAGCCTCATT	TGTGGGTCCTAGCGAGTTTC
TK2-EXT		
Transcript 3	TGCAGGGAAGAGGAGAAGGT	TTTCACGGAACGTGGAGCTCTC
BEAN & FLJ27243 strand-specific RT-PCR		
S for BEAN-strand	S: CGCCATCGTGATAGTCCACA	
AS for FLJ27243-strand	AS: GGGCCCCAGTGTGTGTATGT ATGTTCTCGTGGTGGCTGT	TGTGGTGAGGTCCCAGGTCT
RT-PCR in TK2 across intron 6		
RT-PCR 1	TGTCATCTGTACGGTTGATGGAG	CAACAGACACGTCCATGTTCTT
RT-PCR 2	TGTCATCTGTACGGTTGATGGAG	TGGAGATGGTGAATTGCTTCCAG

Table S2. TaqMan quantitative RT-PCR probes and primers

	Forward primers (5'>3')	Reverse primers (5'>3')	Probes (5'>3')
A	AAGCTGGAGCCGGCACT	GATGGCTGTGCTCCGAGC	CTGCAGCCAAGCCGATAGCACGA
B	TGCTCCAAGGATTACATGTCCTT	GTAGAAGTAGCTGGTGGGTTGT	AAACGTCCCTGCCCCCTTAGCACGA
C	ACGTGGATGCCACGGTG	CCCACACACTCCTCGTAGCC	CAGGGAGCTGTACCCAGATTCTCCACC
D	ACGGTGCTCAGGGAGCTGT	AGGATGGCGTCCAGTTTGTG	CTCCACCAGGATGTACTACTGGGAGCT
E	GCCACTCTGAGCCTCATTATCC	CTCCCAGTGACATCTGCCATA	TCCTTGTGAGGCATGGCTGGATCC
F	TGCCCTTCTCACTTAGAGCTTGT	TTACTGTCTCTCCACCGTCCAT	CTCAGCTGTTCTATCCATGCCCACC
G	CCAGTGGCTCTCCAGTCCTCTA	AGGAAAATGTCCTTGGGAAACC	TCCTGCCTTGCTTCAGTGACCCTGTC
H	TGATCTGTGTCGAGGGCAATAT	TCTGTCGCGTTGGAGAAGAA	CAAGTGGGAAGACGACATGCCTGGA
I	CTTCGGACCAATCCTGAGACTT	GATGGTGAATTGCTTCCAGGTAT	AGAAGAGATGCAGGGAAGAGGAGAAGGTCA
J	TGAGGATGTGGGTGAGAGTTTG	CTCACTGGCTTCCTTGCCCTT	CAGGAGTACCAGATGGAGTGAGGCAGGA
K	GGATCCTGAACACGCCAAAC	GGTGATGATGAAACAAGCTAATGC	TCATCCGAGGCACCTTCAGGGAAC
L	TTCATCCTGTGGCCCAATTC	GATTCATGGATCGCCGACTT	CCTCTTCAACGACCTGATTGCTTGTGC

A-G: primers and probes for *BEAN* or *BEAN-EXT*; H-I for *TK2*; J for *FLJ27243*; K-L for *CKLF*.

Table S3. Oligonucleotide probes for fluorescence in situ hybridization.

Probe Names	Sequences (5'>3')	Target Repeats	Melting Temperatures
(TTTTATTCTA) _{2.5}	TATTTTATTCTATTTTATTCTATTT	(UAAAAUAGAA) _n	65 °C
(TAGAATAAAA) _{2.5}	AAAATAGAATAAAAATAGAATAAAAATA	(UUUUAUUCUA) _n	57 °C

Table S4. Primers designed to synthesize recombinant serine/arginine-rich splicing factors.

Primer Names	Sequences (5'>3')
SFRS1-F	AGCAGAATTCATGTCGGGAGGTGGTGTGATTCGTGG
SFRS1-1-R	TGCTGTCGACTTATGTACGAGAGCGAGATCTGCTATG
SFRS1-2-R	TGCTGTCGACTTAAGACCACTGTATCCAATTCTGGT
SFRS9-F	AGCAGAATTCATGTCGGGCTGGGCGGACGAGCGCG
SFRS9-R	TGCTGTCGACTCAGTAGGGCCTGAAAGGAGAGAAGT