Figure S1

	Human hg19	the second sec		<mark> </mark> +
	Sample	p36.23 p36.12 p35.1 p34.1 p32.2 p31.2 p22.3 p21.3 p13.3 p12 q11 q12 q21.1 q22 q24.1 q25.2 20 kb 4 kb x 156,086 kb 156,088 kb 156,090 kb 156,092 kb 156,094 kb 156,096 kb 156,098 kb	2 q31.1 q32.1 q32.3 q4	2.11 q42.3 q44
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U2	RNA2_D3_accepted_hits.bam Cc ge			
C2	RNA5_CA2_accepted_hits.bam (age			
P3	RNA9_PA3_accepted_hits.bam 0 age		1	11
U3	RNA3_D4_accepted_hits.bam Cc ge		ii	11
C3	RNA6_CA3_accepted_hits.bam 0 age		1	
	RefSeq Genes 11 tracks loaded chr1:	1:156,093,587	· ••• •• • • • • • • • • • • • • • • •	680M of 1,151M

Figure S1. Integrative Genomics Viewer (IGV) screenshots showing expression of *LMNA* transcripts at Exons 1, 2 and 3 for all samples. There was a peak at each exon, indicating similar read coverage across all *LMNA* exons for all samples.

Figure S2



Figure S2. Lamin B1 and Lamin B2 heatmap and gPCR validation. a Heatmap showing Lamin B1 (LMNB1) and Lamin B2 (LMNB2) expression across all samples as pooled (left panel) and with replicates shown (right panel). There was no significant difference in the expression of LMNB1 and LMNB2 across all samples (FDR-adjusted p-value ≥ 0.05). b RNA-seq validation of Lamin B1 and Lamin B2 transcript levels by quantitative PCR (qPCR). qPCR was performed on cDNA generated from unrelated control, control and patient fibroblasts to measure Lamin B1 and Lamin B2 transcript levels. There were no statistically significant differences in transcript levels (average QGE +/- standard error of the mean (SEM)) between groups for Lamin B1 [F(2,6)= 0.70, p=0.53] and for Lamin B2 [F(2,6)= 1.29, p=0.34]. Statistical analysis was performed using One-way ANOVA followed by Tukey post hoc test.



Figure S3. Original Lamin A/C Western Blot. **a** Fibroblasts from three unrelated (U1-U3), three control (C1-C3) and three patient (P1-P3) samples were seeded and grown to confluency, then total protein lysates were extracted for Western blot. Immunoblotting were conducted using N-terminus Lamin A/C antibody and β -Actin as loading control. **b** Membrane image under white light illumination.