

**Additional File 11:** Average hydropathy scores for introns without tandem donor or acceptor motifs (control introns) and for introns with tandem donors and acceptors.

context length	control introns	tandem donor		tandem acceptor	
	average hydropathy	average hydropathy	P-value <sup>a</sup>	average hydropathy	P-value <sup>a</sup>
±3	-0.36	-0.43	0.58	-0.59	<0.0001
±5	-0.30	-0.35	0.47	-0.53	<0.0001
±10	-0.26	-0.32	0.14	-0.44	<0.0001
±15	-0.26	-0.25	0.97	-0.40	0.0016

<sup>a</sup> Wilcoxon rank sum test comparing control introns with tandem donors/acceptors

To avoid potential biases, we excluded the insertion sequence of tandem donors and acceptors from the context.