

Additional file 5

Conserved amino acid residue	C at position		Q at position		P at position		P at position	
	34		37		40		42	
Codon usage preference for translational efficiency ^a	Pref. UGC	Unpref. UGU	Pref. CAG	Unpref. CAA	Pref. CCC	Unpref. CCU CCG CCA	Pref. CCC	Unpref. CCU CCG CCA

Number of codons used

Dscam exon 6.1 – 6.16 (N = 16)	4	12	11	5	3	13	5	11
Dscam exon 6.17 – 6.32 (N = 16)	4	12	6	10	4	12	3	13
Dscam exon 6.33 – 6.48 (N = 16)	12	4	11	5	2	14	11	5
Total	20 < 28		28 > 20		9 < 39		19 < 29	
Fisher's exact test (3x2) ^b	P < 0.05		n.s.		n.s.		P < 0.05	

^a Preferred codons based on Sharp and Lloyd [58]

^b Bonferroni correction applied.