

TABLE S4**Examples of sense:sense codon pairs with mononucleotide repeats.**

	2	3	4	5	6	
sense:sense pairs	A/T	CG AA TC (132)	CA AA ATG (57)	CA AAAA C (29)	CA AAAAA (5)	CA AAAAAA (1)
		CG TT AC (108)	G TTT AC (63)	TTTT CG (30)	TTTTTC (6)	TTTTTT (1)
		AT CC GA (144)	A CCCC T (72)	AA CCCC (33)	CCCCCA (6)	CCCCCC (1)
	C/G	AC GG TA (132)	CC GGG T (69)	T GGGG A (32)	T GGGGG (6)	GGGGGG (1)

The numbers in bracket represent the number of codon pairs belong to each category, except those including a stop codon (TGA, TAA, TAG). The italic letters marked the mononucleotides considered and the non-italic letters could be any letter except for those which consisted of stop codon.