Supplementary Material 3 All possible codon-codon complementarity (antiparallel) are shown, whereby an X indicates complementarity between the codon in the column and the codon in the row.

		UUU Phe	UUC Phe	UUA Leu	UUG Leu	UCU Ser	UCC Ser	UCA Ser	UCG Ser	UAU Tyr	UAC Tyr	UGU Cys	UGC Cys	UGG Trp	CUU Leu	CUC Leu	CUA Leu	CUG Leu	CCU Pro	CCC Pro	CCA Pro	CCG Pro	CAU His	CAC His	CAA Gln	CAG Gln	CGU Arg	CGC Arg	CGA Arg	CGG Arg	AUU Ile	AUC Ile	AUA Ile	AUG Met	ACU Thr	ACC Thr	ACA Thr	ACG Thr	AAU Asn	AAC Asn	AAA Lys	AAG Lys	AGU Ser	AGC Ser	AGA Arg	AGG Arg	GUU Val	GUC Val	GUA Val	GUG Val	GCU Ala	GCC Ala	GCA Ala	GCG Ala	GAU Asp	GAC Asp	GAA Glu	GAG Glu	GGU Gly	GGC Gly	GGA Gly	GGG Gly
UUU	Phe																																																															
UUC	Phe																																																															
UUA	Leu													X																																																	
UUG	Leu																								X	X			X	X																																		
UCU	Ser																																											X	X															X	X
UCC	Ser																																																												X	X
UCA	Ser													X																																																
UCG	Ser													X															X	X																																	
UAU	Tyr																																X	X														X	X													
UAC	Tyr																																															X	X													
UGU	Cys																																X				X															X	X									
UGC	Cys																																															X	X				X	X							
UGG	Trp			X				X	X								X	X				X																																								
CUU	Leu																																								X					X												X				X
CUC	Leu																																																									X				X
CUA	Leu													X																																																	
CUG	Leu																									X				X																																		
CCU	Pro																																													X																X
CCC	Pro																																																													X
CCA	Pro													X																																																
CCG	Pro													X																X																																	
CAU	His																																	X															X													
CAC	His																																																X													
CAA	Gln				X																																																									
CAG	Gln				X													X																																												
CGU	Arg																																				X																X									
CGC	Arg																																																X				X								
CGA	Arg				X				X																																																					
CGG	Arg																																																													
AUU	Ile																																					X				X																X				
AUC	Ile																																																						X			X			
AUA	Ile									X		X																																																		
AUG	Met																							X			X																																				
ACU	Thr																																									X																X				
ACC	Thr																																																									X				
ACA	Thr											X																																																		
ACG	Thr											X															X																																				
AAU	Asn																														X																X																
AAC	Asn																																														X																
AAA	Lys	X																																																												
AAG	Lys	X													X																																															
AGU	Ser																																		X															X												
AGC	Ser																																														X			X												
AGA	Arg	X				X																																																								
AGG	Arg	X				X									X				X																																											
GUU	Val																																						X			X	X												X	X			X	X		
GUC	Val																																																						X	X			X	X		
GUA	Val									X	X	X	X																																													X	X			
GUG	Val									X	X	X	X											X	X			X	X																																		
GCU	Ala																																																									X	X			
GCC	Ala																																																									X	X			
GCA	Ala											X	X																																																	
GCG	Ala											X	X														X	X																																			
GAU	Asp																														X	X															X	X															
GAC	Asp																																														X	X															
GAA	Glu	X	X																																																											
GAG	Glu	X	X												X	X																																														
GGU	Gly																														X	X			X	X											X	X			X	X									
GGC	Gly																																														X	X				X									
GGA	Gly	X	X			X	X																																																							
GGG	Gly	X	X			X	X								X	X			X	X																																										