a) Biology

	Ser	His	Lys	Gly	Arg		Ser		Asp	Ala	
A:	TCC	CAT	AAG	GGG	CGG		T--	-CG	GAC	GCC	---
D:	TCC	CA-	--G	GGG	CGG		TCC	CCG	GAC	GCC	ACG
	Ser		Gln		Gly	Arg	Ser	Pro	Asp	Ala	Thr

b) PRANK (codon) and MACSE

	Ser	His	Lys	Gly	Arg	Ser		Asp	Ala	
A:	TCC	CAT	AAG	GGG	CGG	TCG	---	GAC	GCC	---
D:	TCC	CA**G**	---	GGG	CGG	TC**C**	CCG	GCC	GCC	ACG
	Ser		Gln		Gly	Arg	Ser	Pro	Asp	Ala	Thr

c) MAFFT and ClustalΩ

	Ser	His	Lys	Gly	Arg	Ser	Asp	Ala	
A:	TCC	CAT	AAG	GGG	CGG	TCG	GAC	GCC	---
D:	TCC	CA**G**	**GG**g	**C**GG	**TCC**	**C**CG	GAC	GCC	ACG
	Ser		Gln	Gly	Arg	Ser	Pro	Asp	Ala	Thr

d) COATi

	Ser	His	Lys	Gly	Arg		Ser		Asp	Ala	
A:	TCC	CAT	AAG	GGG	CGG		T--	-CG	GAC	GCC	---
D:	TCC	CA-	--G	GGG	CGG		TCC	CCG	GAC	GCC	ACG
	Ser		Gln		Gly	Arg	Ser	Pro	Asp	Ala	Thr