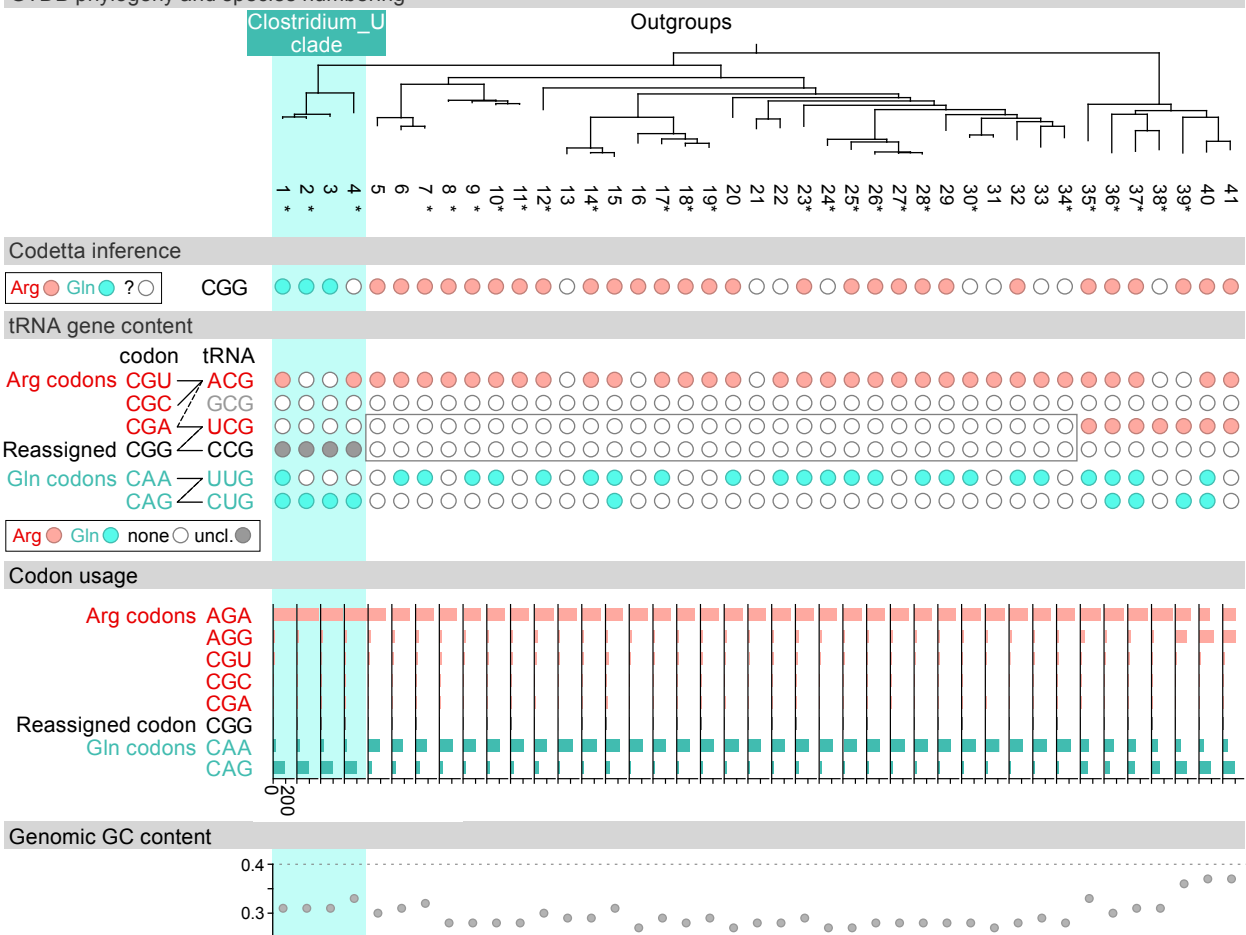


A



B

Transcription termination factor NusA (POG091H0124)

Clostridium_U	1	..	KNFGQA		NVVEF	FD..	EGVMP		SEKID	..
	2	..	KNFGQA		NVVEF	FD..	EGVMP		SEKID	..
	3	..	KNFGQA		NVVEF	FD..	EGVMP		SEKID	..
	4	..	KNFGQA		NVVEF	FN..	EGMT		SEKID	..
Outgroups	6	..	KNFGSA		NVRVEF	FD..	EGVMT		SEQIP	..
	9	..	KNFGSA		NVRVEF	FD..	EGVMT		SEQIP	..
	14	..	KNFGSA		NVRVSD	..	EASMP		SEQIP	..
	29	..	KNFGSA		NVRVEF	FD..	EAVMT		TEQMO	..
	40	..	KNFGSA		NVRIDMN	..	EGVLL		SEQIR	..

SsrA-binding protein (POG091H022D)

Clostridium_U	1	..	LKGTEVKSIR	α	GRVNLKEG	..
	2	..	LKGTEVKSIR	α	GRVNLKEG	..
	3	..	LKGTEVKSIR	α	GRVNLKEG	..
	4	..	LKGTEVKSIR	α	GRVNLKEG	..
Outgroups	6	..	LKGTEVKSIR	α	GKVNLMKEG	..
	14	..	LKGTEVKSIR	α	GKVNLMKEG	..
	9	..	LKGTEVKSIR	α	GKVNLMKEG	..
	14	..	LKGTEVKSIR	α	GKVNLMKEG	..
	29	..	LKGTEVKSIR	α	GKVNLMKEG	..
	40	..	LKGTEVKSIR	α	GKVNLMKEG	..

C Clostridium_U reassigned tRNA_{CCG}

1. *Peptacetobacter hiranonis* DSM 13275
GCA 000156055.1

Glutamine tRNA identity elements

