

Bacteria Name	Protein ID	Gene Product	Function	4 dpi SAC	10 dpi SAC	4 dpi Interface	10 dpi Interface
30S ribosomal protein S10	Q2FEN8	RpsJ	Ribosome	NO	YES	NO	YES
50S ribosomal protein L2	Q2FEP2	RplB	Ribosome	YES	YES	NO	YES
30S ribosomal protein S8	Q2FEQ3	RpsH	Ribosome	NO	YES	NO	YES
50S ribosomal protein L6	Q2FEQ4	RplF	Ribosome	NO	NO	NO	YES
50S ribosomal protein L18	Q2FEQ5	RplR	Ribosome	NO	NO	NO	YES
30S ribosomal protein S5	Q2FEQ6	RpsE	Ribosome	NO	NO	NO	YES
50S ribosomal protein L15	Q2FEQ8	RplO	Ribosome	NO	YES	NO	YES
50S ribosomal protein L21	Q2FG80	RplU	Ribosome	NO	YES	NO	YES
30S ribosomal protein S20	Q2FGD8	RpsT	Ribosome	NO	YES	NO	YES
Ribosome-recycling factor	Q2FHH9	Frr	Ribosome	NO	YES	NO	YES
50S ribosomal protein L25	Q2FJE0	RplY	Ribosome	NO	YES	NO	YES
Uncharacterized leukocidin-like protein 1	Q2FFA3	LukB	Virulence	NO	YES	NO	YES
Chemotaxis inhibitory protein	Q2FFF7	Chp	Virulence/Immune Evasion	NO	YES	NO	YES
Serine-aspartate repeat-containing protein E	Q2FJ77	SdrE	Virulence/Immune Evasion	NO	YES	NO	YES
Putative heme-dependent peroxidase SAUSA300_0569	Q2FJ56	ChdC	Metal homeostasis	NO	YES	NO	YES
Sulfur carrier protein FdhD	Q2FEL2	FdhD	Sulfur Carrier Protein	NO	NO	NO	YES
Acetate kinase	Q2FG27	AckA	Anaerobic metabolism	NO	YES	NO	NO
L-lactate dehydrogenase 1	Q2FK29	Ldh1	Anaerobic metabolism	YES	YES	NO	YES
UPF0342 protein SAUSA300_1795	Q2FFQ0	SAUSA300_1795	Unknown function	NO	YES	NO	YES
60 kDa chaperonin	Q2FF95	GroL	Protein folding	NO	YES	NO	YES
Thioredoxin	Q2FHT6	TrxA	Redox reactions	NO	YES	NO	YES

HTH-type transcriptional regulator ArcR	Q2FDM8	ArcR	Regulation/Anaerobic Conditions	NO	NO	YES	NO
Transcription elongation factor GreA	Q2FGB6	GreA	Transcription Elongation Factor	NO	YES	NO	YES
Nuclease SbcCD subunit C	Q2FH88	SbcC	DNA Replication	YES	NO	YES	NO
Pyrimidine-nucleoside phosphorylase	Q2FEZ3	Pdp	Phosphorolysis of the pyrimidine nucleosides	YES	YES	NO	YES
ATP synthase subunit b	Q2FF20	AtpF	Energy	NO	YES	NO	YES
Probable manganese-dependent inorganic pyrophosphatase	Q2FFH6	PpaC	Unknown function	YES	NO	YES	NO
Phosphoenolpyruvate carboxykinase (ATP)	Q2FFV5	PckA	Gluconeogenesis	NO	YES	NO	YES
L-threonine dehydratase catabolic TdcB	Q2FH01	TdcB	L-threonine degradation via propanoate pathway	NO	YES	NO	YES
Bifunctional protein FOLD	Q2FI15	FoldD	Folate biosynthesis	NO	YES	NO	YES

Table S3: List of bacterial proteins detected and their localizations with lower identification confidence