

**Table S3 - Summary of predicted sRNAs in *C. acetobutylicum* ATCC 824**

Candidate	Position	Left Gene	Orientation	Right Gene	Classification (Probability)	Validation
<b><i>C. acetobutylicum</i> ATCC 824 chromosome (NC_003030)</b>						
sCAC137	136025-136338	tRNA	→ ⇨ <sup>Ⓞ</sup> →	CAC0125	<i>SRP_bact</i> <sup>†</sup> (0.50)	Q <sup>++</sup> , N <sup>+</sup>
sCAC349	348527-348978	CAC0292	→ ⇨ <sup>Ⓞ</sup> ←	CAC0293	<i>Intron_gpI</i> (0.55)	Q
sCAC500	499444-499798	CAC0431	← ⇨ <sup>Ⓞ</sup> →	CAC0432	<i>SSU rRNA</i> (0.52)	Q
sCAC610 <sup>*</sup>	609479-609707 (609492-609714)	CAC0527	→ ⇨ <sup>Ⓞ</sup> →	CAC0528	NC	Q <sup>+</sup> , N <sup>+</sup>
sCAC646 <sup>§</sup>	645484-645836	CAC0557	→ ⇨ <sup>Ⓞ</sup> →	CAC0558	<i>SRP_euk_arch</i> <sup>§</sup> (0.51)	Q <sup>+</sup> , N
sCAC903	902756-903083	CAC0779	← ⇨ <sup>Ⓞ</sup> →	CAC0780	<i>T-box</i> (0.52)	Q <sup>+</sup>
sCAC975.1	974783-975194	CAC0846	→ ⇨ <sup>Ⓞ</sup> ←	CAC0847	NC	Q <sup>+</sup>
sCAC1132	1131472-1131688	CAC0983	→ ⇨ <sup>Ⓞ</sup> →	CAC0984	<i>Riboswitch</i> (0.55)	Q <sup>+</sup>
sCAC1313	1312583-1312896	CAC1143	← ⇨ <sup>Ⓞ</sup> →	CAC1145	NC	Q
sCAC1315	1314535-1314900	CAC1145	→ ⇨ <sup>Ⓞ</sup> →	CAC1146	NC	Q <sup>+</sup>
sCAC1449	1448520-1448657	CAC1304	→ ⇨ <sup>Ⓞ</sup> →	CAC1305	<i>RNaseP_bact</i> <sup>†</sup> (0.52)	Q <sup>++</sup> , N <sup>+</sup>
sCAC1582 <sup>§</sup>	1581613-1581785	CAC1435	→ ⇨ <sup>Ⓞ</sup> →	CAC1436	NC	Q <sup>+</sup> , N
sCAC1594	1593590-1594108	CAC1445	→ ⇨ <sup>Ⓞ</sup> →	CAC1446	<i>tmRNA</i> (0.5)	Q
sCAC1645	1644571-1644836	CAC1500	← ⇨ <sup>Ⓞ</sup> →	CAC1501	NC	Q <sup>++</sup>
sCAC1760	1759916-1760315	CAC1619	→ ⇨ <sup>Ⓞ</sup> →	CAC1620	<i>tmRNA</i> (0.83)	Q <sup>+</sup> , N <sup>+</sup>
sCAC2709	2708590-2708940	CAC2603	← ⇨ <sup>Ⓞ</sup> →	CAC2605	<i>SRP_euk_arch</i> (0.52)	Q
sCAC2795	2794525-2794683	CAC2675	← ⇨ <sup>Ⓞ</sup> ←	CAC2676	<i>Intron_gpI</i> (0.51)	Q <sup>+</sup>
sCAC2819.1	2818349-2818570	CAC2695	→ ⇨ <sup>Ⓞ</sup> ←	CAC2696	<i>SRP_euk_arch</i> (0.51)	Q
sCAC3039	3038094-3038615	CAC2903	← ⇨ <sup>Ⓞ</sup> ←	CAC2904	NC	Q
sCAC3283 <sup>§</sup>	3282618-3282947	CAC3143	← ⇨ <sup>Ⓞ</sup> ←	CAC3145	<i>SRP_euk_arch</i> <sup>§</sup> (0.52)	Q <sup>++</sup> , N
sCAC3340	3339706-3339933	CAC3194	← ⇨ <sup>Ⓞ</sup> ←	CAC3195	<i>SRP_euk_arch</i> (0.51)	Q <sup>+</sup> , N <sup>+</sup>
sCAC3723	3722148-3722252	CAC3524	← ⇨ <sup>Ⓞ</sup> ←	CAC3525	NC	Q <sup>+</sup>
sCAC3821	3820221-3820568	CAC3616	→ ⇨ <sup>Ⓞ</sup> →	CAC3617	<i>T-box</i> <sup>†</sup> (0.53)	Q <sup>++</sup> , N <sup>+</sup>
sCAC3825	3824134-3824236	CAC3621	→ ⇨ <sup>Ⓞ</sup> →	CAC3622	<i>Riboswitch</i> (0.58)	Q <sup>+</sup>
sCAC3850	3849152-3849691	CAC3648	← ⇨ <sup>Ⓞ</sup> →	CAC3649	<i>SRP_euk_arch</i> (0.50)	Q
<b><i>C. acetobutylicum</i> ATCC 824 pSOL 1 megaplasmid (NC_001988)</b>						
sCA_P18	17253-17574	CA_P0016	← ⇨ <sup>Ⓞ</sup> ←	CA_P0017	NC	Q <sup>+</sup>
sCA_P18.1	17550-17613	CA_P0016	← ⇨ <sup>Ⓞ</sup> ←	CA_P0017	NC	Q
sCA_P60 <sup>‡</sup>	59763-60028	CA_P0058	← ⇨ <sup>Ⓞ</sup> ←	CA_P0059	NC	Q <sup>++</sup> , N
sCA_P105	104875-105129	CA_P0099	← ⇨ <sup>Ⓞ</sup> ←	CA_P0100	<i>SRP_euk_arch</i> (0.63)	Q
sCA_P176	175194-175408	CA_P0161	→ ⇨ <sup>Ⓞ</sup> →	CA_P0162	NC	A
sCA_P189 <sup>‡</sup>	188247-188754	CA_P0174	→ ⇨ <sup>Ⓞ</sup> ←	CA_P0175	<i>SRP_euk_arch</i> (0.50)	Q <sup>++</sup> , N

P : Promoter is found upstream of the sequence;

Ⓞ : Rho-independent terminator downstream of the sequence;

† The sRNA sequence is annotated in Rfam database;

\* The conserved clindamycin-related sRNA. The actual sequence position determined by RACE reaction is shown in the parentheses;

§ The expression was detected by Q-RT-PCR but not by Northern analysis;

‡ High expression by Q-RT-PCR was detected in some but not all RNA pools; in different RNA pools, no expression was detected by Northern analysis.

NC: cannot be classified with probability of at least 0.5;

Q : No expression detected by Q-RT-PCR;

Q<sup>+</sup>: lowly expressed sRNA detected by Q-RT-PCR;

Q<sup>++</sup>: highly expressed sRNA detected by Q-RT-PCR;

N : No expression detected by Northern analysis;

N<sup>+</sup> : sRNA validated by Northern analysis;

A: this was validated recently by Dr. P. Dürre's group (1)

1. **Schiel, B., N. Nold, and P. Dürre.** 2010. Identification of a small noncoding RNA in *Clostridium acetobutylicum*. *Biospektrum Special Issue 2010 (ISSN 0947-0867)*, Abstract GRV09. VAAM Annual Meeting 2010, March 28-31, Hanover, Germany:p. 135.