

## Supplementary Material

Sridhar, J., *et al.* 2010. PsRNA: a computing engine for the comparative identification of putative small RNA locations within intergenic regions. *Genomics Proteomics Bioinformatics* 8: 127-134.

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Tables S1 and S2

**Table S1 124 gene pair IDs that sandwich the putative sRNA locations within the intergenic regions in five of the query genomes**

sRNA	<i>ecoI</i> * <sup>1</sup>	<i>KO pair</i> * <sup>2</sup>	<i>ecp</i>	<i>ecv</i>	<i>eci</i>	<i>sec</i>	<i>sbo</i>
<i>c0299</i>	b1182/ b1183	K11139/ K03503	ECP_1225/ ECP_1226				
<i>c0343</i>	b1342/ b1343	K03284/ K05591	ECP_1395/ ECP_1397	APECO1_494/ APECO1_495	UTI89_C1613/ UTI89_C1614	SC1651/ SC1650	SBO_1719/ SBO_1718
<i>c0465</i>	b1886/ b1887	K05875/ K03408	ECP_1830/ ECP_1831	APECO1_934/ APECO1_935	UTI89_C2089/ UTI89_C2090	SC1926/ SC1927	
<i>c0664</i>	b2711/ b2712	K12265/ K04656	ECP_2671/ ECP_2672	APECO1_3815/ APECO1_3814	UTI89_C3074/ UTI89_C3073	SC2775/ SC2774	SBO_2807/ SBO_2806
<i>c0719</i>	b2975/ b2976	K03303/ K01638	ECP_3052/ ECP_3053	APECO1_3452/ APECO1_3451	UTI89_C3391/ UTI89_C3392		
<i>csrC</i>	b3865/ b3866	K03978/ K09894	ECP_4075/ ECP_4076	APECO1_2597/ APECO1_2596	UTI89_C4454/ UTI89_C4455	SC3893/ SC3895	SBO_3877/ SBO_3878
<i>micF</i>	b2215/ b2216	K09475/ K07676	ECP_2258/ ECP_2259	APECO1_4344/ APECO1_4343	UTI89_C2497/ UTI89_C2498		SBO_2092/ SBO_2091
<i>oxyS</i>	b3960/ b3961	K01755/ K04761	ECP_4176/ ECP_4173	APECO1_2504/ APECO1_2507	UTI89_C4554/ UTI89_C4551	SC4014/ SC4013	SBO_3980/ SBO_3979
<i>mvpB</i>	b3118/ b3124	K07592/ K00865	ECP_3211/ ECP_3214	APECO1_3306/ APECO1_3303	UTI89_C3553/ UTI89_C3555		
<i>rtt</i>	b1227/ b1232	K00374/ K01433	ECP_1277/ ECP_1279	APECO1_344/ APECO1_346	UTI89_C1424/ UTI89_C1428	SC1755/ SC1751	SBO_1839/ SBO_1837
<i>ryaA</i>	b0069/ b0071	K11925/ K01704	ECP_0072/ ECP_0073	APECO1_1912/ APECO1_1913	UTI89_C0077/ UTI89_C0078	SC0103/ SC0106	SBO_0056/ SBO_0058
<i>rybD</i>	b00729/ b00730	K01902/ K11922					SBO_0587/ SBO_0588
<i>ryeE</i>	b2081/ b2086	K08303/ K07029	ECP_2125/ ECP_2127		UTI89_2360/ UTI89_2362	SC2151/ SC2155	
<i>ryeF</i>	b1873/ b1874	K07821/ K06201	ECP_1818/ ECP_1819	APECO1_923/ APECO1_924	UTI89_C2077/ UTI89_C2078		
<i>rygB/sraE</i>	b2836/ b2837	K01909/ K02529	ECP_2849/ ECP_2850		UTI89_C3240/ UTI89_C3241	SC2949/ SC2950	SBO2728/ SBO2729
<i>ryjB</i>	b4302// b4303	K02773/ K06971				SC1611/ SC16112	
<i>sokC</i>	b0015/ b0019	K03686/ K03313		APECO1_1964/ APECO1_1960	UTI89_C0017/ UTI89_C0022		SBO_0016/ SBO_0018
<i>spf</i>	b3863/ b3865	K02335/ K03978	ECP_4074/ ECP_4075	APECO1_2598/ APECO1_2597	UTI89_C4452/ UTI89_C4454	SC3891/ SC3893	SBO_3876/ SBO_3877
<i>sraA</i>	b0438/ b0439	K03544/ K01338	ECP_0499/ ECP_0500	APECO1_1573/ APECO1_1572	UTI89_C0466/ UTI89_C0467	SC0491/ SC0492	SBO_0332/ SBO_0333
<i>sraD</i>	b2687/ b2688	K07173/ K01919		APECO1_3834/ APECO1_3833	UTI89_C3049/ UTI89_C3050		SBO_2830/ SBO_2829
<i>sraG</i>	b3164/ b3165	K00962/ K02956	ECP_3252/ ECP_3253	APECO1_3266/ APECO1_3265	UTI89_C3594/ UTI89_C3595	SC3223/ SC3224	SBO_3218/ SBO_3217
<i>sraJ</i>	b3801/ b3802	K01130/ K02498	ECP_3993/ ECP_3994		UTI89_C4359/ UTI89_C4361		
<i>sroA/TPP</i>	b0068/ b0069	K02064/ K11925	ECP_0071/ ECP_0072	APECO1_1914/ APECO1_1913	UTI89_C0076/ UTI89_C0077	SC0102/ SC0103	SBO_0055/ SBO_0056
<i>sroC</i>	b0654/ b0655	K10003/ K10001	ECP_0677/ ECP_0678	APECO1_1409/ APECO1_1408	UTI89_C0650/ UTI89_C0651	SC0692/ SC0693	SBO_0517/ SBO_0518
<i>sroD</i>	b1804/ b1805	K03684/ K01897	ECP_1747/ ECP_1748	APECO1_862/ APECO1_863	UTI89_C1998/ UTI89_C1999	SC1810/ SC1811	SBO_1284/ SBO_1283
<i>sroE</i>	b2514/ b2515	K01892/ K03526	ECP_2519/ ECP_2520	APECO1_4010/ APECO1_4009	UTI89_C2835/ UTI89_C2836	SC2519/ SC2520	SBO_2538/ SBO_2539
<i>sroG/FMN</i>	b3041/ b3042	K02858/ K09806	ECP_3136/ ECP_3137	APECO1_3366/ APECO1_3365	UTI89_C3483/ UTI89_C3484	SC3141/ SC3142	SBO_2899/ SBO_2900
<i>tke1</i>	b2556/ b2557	K07711/ K01952	ECP_2558/ ECP_2559	APECO1_3975/ APECO1_3974	UTI89_C2876/ UTI89_C2877	SC2559/ SC2560	SBO_2584/ SBO_2585
<i>tp2</i>	b0113/ b0114	K05799/ K00163	ECP_0119/ ECP_0121	APECO1_1872/ APECO1_1871		SC0150/ SC0151	SBO_0102/ SBO_0103
<i>tpke11</i>	b0014/ b0015	K04043/ K03686	ECP_0014/ ECP_0015	APECO1_1965/ APECO1_1964	UTI89_C0016/ UTI89_C0017	SC0012/ SC0013	SBO_0015/ SBO_0016
<i>t44</i>	b0168/ b0169	K01265/ K02967	ECP_0176/ ECP_0177	APECO1_1819/ APECO1_1818	UTI89_C0182/ UTI89_C0183	SC0215/ SC0216	SBO_0156/ SBO_0157

Note: \*<sup>1</sup>Flanking gene pair(s) that sandwich known sRNAs in *eco*. \*<sup>2</sup>KO numbers of the sRNA specific flanking gene pairs that sandwich known sRNAs in *eco* collected from KEGG KO dataset (gray shade). Unique sRNA regions identified in the respective query genomes only from this study were shaded with tan color. New sRNA classes documented and identified in the query genomes were shaded with blue color (not available in Rfam database).



<i>bcc</i>	<i>bfl</i>	<i>bpn</i>	<i>ypl</i>	<i>ypp</i>	<i>yen</i>
					YE0022/ YE0023
			YpsIP31758_3408/YpsIP31758_3411		
			YpsIP31758_1207? YpsIP31758_1208	YPDSF_2205/YPDSF_2206	YE1099/YE1100
			YpsIP31758_0972/ YpsIP31758_0975	YPDSF_1710/YPDSF_1712	YE3327/YE3331
			YpsIP31758_3465/YpsIP31758_3464	YPDSF_3162/YPDSF_3161	YE0610/YE0611
	BFL247/ BFL299	BPEN_645/BPEN_644			
	BFL108/ BFL107	BPEN_112/ BPEN_111	YPSIP31758_3233/YPSIP31758_3234		YE0438/ YE0437
				YPDSF_1046/YPDSF_1047	
		BPEN_550/BPEN_551	YpsIP31758_0567/YpsIP31758_0566	YPDSF_0441/YPDSF_0440	YE3669/YE3671
	BFL114/ BFL115	BPEN_118/ BPEN_119			YE0698/ YE0699
	BFL270/ BFL271	BPEN_278/BPEN_279		YPDSF_3163/YPDSF_3162	YE0609/ YE0610
BCC_141/ BCC_142					

Note: Unique sRNA regions identified in the respective query genomes only from this study were shaded with tan color. New sRNA classes documented and identified in the query genomes were shaded with blue color (not available in Rfam database).

<i>ecj</i>	<i>ent</i>	<i>kpn</i>
JW1336/ JW1337		
	ENT638_3183/ENT638_3185	KPN_03046/KPN_03048
JW0068/JW0070	ENT638_0616/ENT638_0619	
JW0718/JW0719		
JW2066/JW2070	ENT638_2698/ENT638_2701	KPN_02532/KPN_02533
JW2804/JW2805	ENT638_3277/ENT638_3278	KPN_03245/KPN_03246
JW4264/JW4265		
JW0014/JW0018	ENT638_0579/ENT638_0580	KPN_00015/KPN_00016
JW5930/ JW3835*		KPN_00400/KPN_00401
	ENT638_3601/ENT638_3602	
JW0067/JW0068	ENT638_0615/ENT638_0616	KPN_00067/KPN_00068
	ENT638_3453/ENT638_3454	KPN_03454/KPN_03455
		KPN_00014/ KPN_00015