

Additional file 4 – Three fold cross-validation results

"Training" phase

Organism	Promoters	Regions	Nt	Spacing	Organism-specialized matrices			General matrix	
					Sensitivity	FP/100 nt	Name	Sensitivity	FP/100 nt
<b><i>E. coli</i></b>	<b>377</b>	<b>335</b>	<b>117238</b>	<b>16-20</b>	<b>42.4%</b>	<b>1.13</b>	<b>229794169</b>	<b>31.0%</b>	<b>1.09</b>
<i>Ecoli-1_2</i>	252	252	87198	16-20	40.5%	1.14	203401358	27.8%	1.11
<i>Ecoli-1_3</i>	251	251	90404	16-20	45.8%	1.17	203395079	33.9%	1.14
<i>Ecoli-2_3</i>	251	251	90026	16-20	45.4%	1.15	226912098	33.1%	1.15

<b><i>B. subtilis</i></b>	<b>148</b>	<b>142</b>	<b>43446</b>	<b>16-20</b>	<b>56.8%</b>	<b>0.99</b>	<b>113362653</b>	<b>50.0%</b>	<b>0.93</b>
<i>Bsub-1_2</i>	99	99	32359	16-20	59.6%	0.85	173272688	56.6%	0.96
<i>Bsub-1_3</i>	99	99	30648	16-20	55.6%	0.89	222023835	48.5%	0.96
<i>Bsub-2_3</i>	98	98	28705	16-20	55.1%	0.89	20218415	46.9%	0.96

"Testing" phase

Organism	Promoters	Regions	Nt	Spacing	Organism-specialized matrices			General matrix	
					Sensitivity	FP/100 nt	Name	Sensitivity	FP/100 nt
<i>Ecoli-3</i>	125	125	46616	16-20	46.4%	1.19	203401358	39.2%	1.17
<i>Ecoli-2</i>	126	126	43410	16-20	38.9%	1.16	203395079	27.0%	1.12
<i>Ecoli-1</i>	126	126	43788	16-20	39.7%	1.20	226912098	28.6%	1.11

<i>Bsub-3</i>	49	49	13497	16-20	42.9%	0.89	173272688	38.8%	0.96
<i>Bsub-2</i>	49	49	15208	16-20	51.0%	0.93	222023835	55.1%	0.96
<i>Bsub-1</i>	50	50	17151	16-20	56.0%	0.91	20218415	58.0%	0.96

Scores between specialized matrices

	Name	229794169
<i>Ecoli-1_2</i>	203401358	504.84
<i>Ecoli-1_3</i>	203395079	2379.75
<i>Ecoli-2_3</i>	226912098	569.57

	Name	113362653
<i>Bsub-1_2</i>	173272688	106.88
<i>Bsub-1_3</i>	222023835	131.73
<i>Bsub-2_3</i>	20218415	221.35

Referred to the Figure 3 of the article to get an idea of the magnitude of the scores.