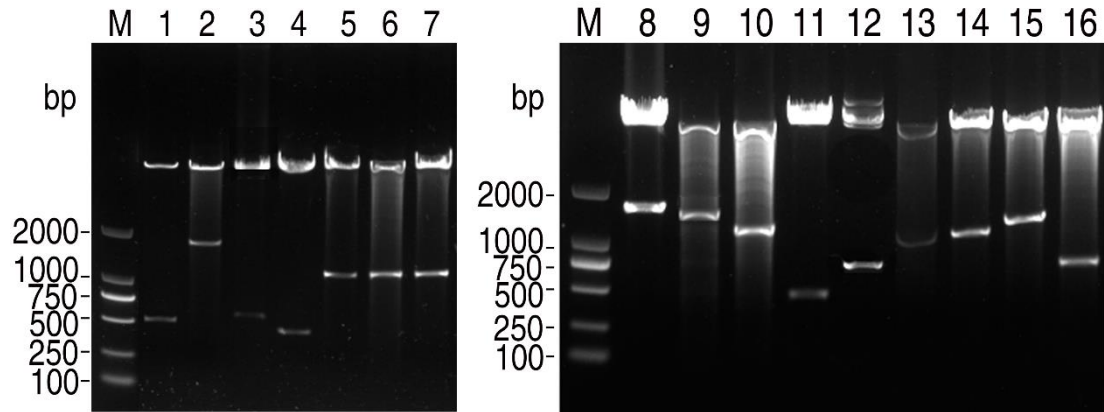
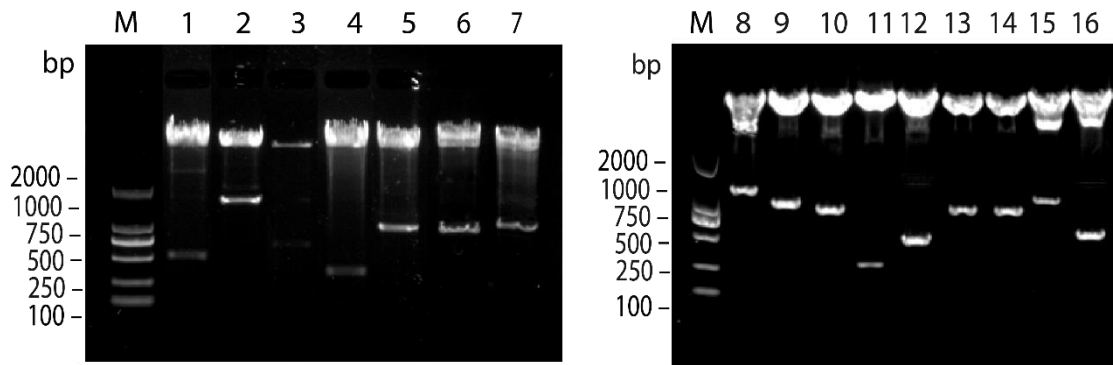


Supplementary Material



Supplementary Figure 1. Identification of prokaryotic expression plasmid by restriction enzyme analysis.



Supplementary Figure 2. Identification of eukaryotic expression plasmid by restriction enzyme analysis.

M: DNA marker; Lanes 1-16: AT730_04380; AT730_06145; AT730_07035; AT730_08185; AT730_14920; AT730_14930; AT730_14935; AT730_19120; AT730_19300; AT730_20810; AT730_20950; AT730_21050; AT730_21605; AT730_22220; AT730_22910; AT730_24225

Supplementary Table 1. Primers used for qRT-PCR analysis.

Gene	Primer	sequence(5'-3')	Product size(bp)
<i>EF-1α</i>	Forward	CTGGAGGCCAGCTCAAACAT	87
	Reverse	GTAATGCTAGCGGTACTACTCTTCTTGAT	
<i>il-1b</i>	Forward	TGGACTTCGCAGCACAAAATG	139
	Reverse	GTTCACTTCACGCTCTTGGATG	
<i>il-4</i>	Forward	TACATTGGTCCCCGTTTCTG	193
	Reverse	ACCCTTCAAAGCCATTCCCTG	
<i>il-8</i>	Forward	CACGCTGTCGCTGCATTG	127
	Reverse	GTCATCAAGGTGGCAATGATCTC	
<i>il-10</i>	Forward	CTCTGCTCACGTTCTTC	189
	Reverse	TCATCGTTGGACTCATAAAAC	
<i>il-21</i>	Forward	CTAAAGTGCTGCACCTGTCAG	181
	Reverse	TTGCACTGAGCTTTCTGTGTC	
<i>tnf-α</i>	Forward	ATAAGACCCAGGGCAATCAAC	177
	Reverse	CAGAGTTGTATCCACCTGTAAATG	
<i>inf-γ</i>	Forward	TTCGGGATGGATGACAT	141
	Reverse	TGTAGCTGAGAATCTTCTTTAATATAG	
<i>c3b</i>	Forward	TGTGACCCGCTGTATGTTCT	112
	Reverse	TTGGCTGGGAAGTTCTTCAC	
<i>tlr-1</i>	Forward	CACCTGCGAGGAAAGTAAGT	108
	Reverse	CTGTAAGGGCGCAATCAGAC	
<i>nf-κb</i>	Forward	GCTCATTAGATTGCTCTACAC	126
	Reverse	CGTGTCTCCGTTCTCATCT	
<i>lysozyme</i>	Forward	GACACTGGGACGCTGTGATG	174
	Reverse	AGGCCGTGCACACATAGTTG	
<i>cox-2</i>	Forward	TTCTTCGCCCAGCATTCTC	181
	Reverse	AATGTGCCCCAGATCCACT	

Supplementary Table 2. Prediction of extracellular secretory proteins in *Vibrio alginolyticus*

ATCC33787 by PSORTb 3.0.2

Protein name	Location score					Final prediction	Secondary localization(s)
	Cytoplasmic membrane	Periplasmic	Cytoplasmic	Outer membrane	Extracellular		
AT730_00730	0.01	0.2	0	0.07	9.72	Extracellular	
AT730_01435	0.01	0.2	0	0.07	9.72	Extracellular	
AT730_02000	0	0	0	0	10	Extracellular	
AT730_03640	0	0	0	0	10	Extracellular	
AT730_03670	0.01	0.2	0.01	0.07	9.71	Extracellular	
AT730_03900	0.01	0.2	0.01	0.07	9.71	Extracellular	Host Associated
AT730_03915	0	0.04	0	1.52	8.44	Extracellular	Host Associated
AT730_03940	0.01	0.2	0.01	0.07	9.71	Extracellular	T3SS
AT730_03970	0.02	0.19	0.34	0	9.45	Extracellular	
AT730_04070	0.01	0.2	0.01	0.07	9.71	Extracellular	
AT730_04380	0.01	0.2	0.01	0.07	9.71	Extracellular	
AT730_05335	0	0	0	0	10	Extracellular	Host Associated
AT730_06145	0.01	0.11	0.01	0.23	9.64	Extracellular	
AT730_06405	0.01	0.2	0.01	0.07	9.71	Extracellular	
AT730_06925	0	0	0	0	10	Extracellular	Flagellar
AT730_06935	0	0	0	0	10	Extracellular	Flagellar
AT730_06940	0	0	0	0	10	Extracellular	Flagellar
AT730_06945	0	0	0	0	10	Extracellular	Flagellar
AT730_07035	0.01	0.11	0.01	0.23	9.64	Extracellular	
AT730_08185	0	0	0	0	10	Extracellular	Fimbrial
AT730_08220	0	0	0	0	10	Extracellular	Cytoplasmic
AT730_08640	0	0	0	0	10	Extracellular	

AT730_129 75	0.02	0.19	0	0.34	9.45	Extracellul ar	
AT730_142 10	0	0	0	0	10	Extracellul ar	Fimbrial
AT730_148 75	0.01	0.2	0.01	0.07	9.71	Extracellul ar	
AT730_148 80	0.01	0.2	0.01	0.07	9.71	Extracellul ar	
AT730_148 90	0	0	0	0	10	Extracellul ar	Flagellar
AT730_149 20	0	0	0	0	10	Extracellul ar	Flagellar
AT730_149 30	0	0	0	0	10	Extracellul ar	Flagellar
AT730_149 35	0	0	0	0	10	Extracellul ar	Flagellar
AT730_152 95	0.01	0.11	0	0.23	9.65	Extracellul ar	
AT730_153 10	0.02	0.19	0.34	0	9.45	Extracellul ar	
AT730_157 55	0	0	0	0	10	Extracellul ar	
AT730_157 75	0.02	0.19	0.34	0	9.45	Extracellul ar	
AT730_163 95	0.01	0.11	0	0.23	9.65	Extracellul ar	
AT730_168 80	0.01	0.2	0	0.07	9.72	Extracellul ar	
AT730_168 95	0.02	0.19	0.34	0	9.45	Extracellul ar	
AT730_178 50	0.01	0.2	0	0.07	9.72	Extracellul ar	
AT730_185 55	0	0	0	0	10	Extracellul ar	
AT730_186 65	0.01	0.11	0	0.23	9.65	Extracellul ar	
AT730_191 20	0.02	0.11	0.34	0.01	9.52	Extracellul ar	
AT730_192 05	0.01	0.2	0.01	0.07	9.71	Extracellul ar	
AT730_192 50	0.01	0.2	0	0.07	9.72	Extracellul ar	
AT730_193 00	0.01	0.11	0.01	0.23	9.64	Extracellul ar	
AT730_204 90	0	0.04	0	1.52	8.44	Extracellul ar	Flagellar
AT730_204 95	0	0	0	0	10	Extracellul ar	Flagellar
AT730_205 15	0	0	0	0	10	Extracellul ar	Flagellar
AT730_205 25	0	0	0	0.04	9.96	Extracellul ar	
AT730_205 30	0.01	0.2	0.01	0.07	9.71	Extracellul ar	Fimbrial

AT730_208 10	0.01	0.11	0.01	0.23	9.64	Extracellul ar	
AT730_209 50	0.01	0.2	0.01	0.07	9.71	Extracellul ar	
AT730_210 50	0.01	0.2	0.01	0.07	9.71	Extracellul ar	
AT730_216 05	0.01	0.2	0	0.07	9.72	Extracellul ar	
AT730_222 20	0.01	0.11	0	0.23	9.65	Extracellul ar	
AT730_226 65	0	0	0	0	10	Extracellul ar	
AT730_229 10	0	0	0	0	10	Extracellul ar	Flagellar
AT730_229 20	0	0	0	0	10	Extracellul ar	Flagellar
AT730_229 30	0	0	0	0	10	Extracellul ar	Flagellar
AT730_231 10	0.01	0.11	0.01	0.23	9.64	Extracellul ar	
AT730_234 10	0	0	0	0	10	Extracellul ar	
AT730_242 25	0.01	0.11	0.01	0.23	9.64	Extracellul ar	
AT730_246 75	0.01	0.11	0.01	0.23	9.64	Extracellul ar	
AT730_246 80	0.01	0.11	0.01	0.23	9.64	Extracellul ar	
AT730_247 00	0.01	0.11	0	0.23	9.65	Extracellul ar	
AT730_251 75	0.01	0.2	0	0.07	9.72	Extracellul ar	
AT730_256 90	0.01	0.11	0.01	0.23	9.64	Extracellul ar	
AT730_257 35	0.01	0.2	0.01	0.07	9.71	Extracellul ar	
AT730_259 50	0.01	0.11	0.01	0.23	9.64	Extracellul ar	
AT730_262 35	0.01	0.11	0.01	0.23	9.64	Extracellul ar	

Supplementary Table 3. Information of extracellular secretory proteins in *Vibrio alginolyticus*

ATCC33787

NCBI no.	Product name	Locus name	Gene name	Pred. MW (kDa)
gi 1033057234	type II toxin-antitoxin system RnIA family toxin	AT730_04380	<i>rnIA</i>	19.1
gi 1033057429	hypothetical protein	AT730_06145		63.7
gi 491522781	NAD(P)H:quinone oxidoreductase	AT730_07035	<i>wrbA</i>	20
gi 1033057543	prepilin-type N-terminal cleavage/methylation domain-containing protein	AT730_08185	<i>ppdD</i>	15.5
gi 1033057830	flagellin	AT730_14920	<i>fla</i>	40.9
gi 516430917	flagellin	AT730_14930	<i>fla</i>	40
gi 516430916	flagellin	AT730_14935	<i>fla</i>	40.5
gi 1033058117	FHA domain-containing protein	AT730_19120	<i>tagH</i>	55.1
gi 1033058135	linear amide C-N hydrolase	AT730_19300		48
gi 1033058243	baseplate J/gp47 family protein	AT730_20810		42.1
gi 960942174	thermolabile hemolysin	AT730_20950		12.3
gi 922668757	SDR family oxidoreductase	AT730_21050		26.1
gi 1033058312	lytic polysaccharide monooxygenase	AT730_21605	<i>lpmO</i>	43.5
gi 1033058344	carotenoid 1,2-hydratase	AT730_22220	<i>crtC</i>	41.8
gi 1033058400	flagellar filament capping protein	AT730_22910	<i>fliD</i>	48
gi 1033058558	hypothetical protein	AT730_24225		26.7