

Supplementary Table S1 –
 Log2 transformed apex area under the curve (AUC) data for secretome samples from *C. bescii*
 wild type
 and strains RKCB120, RKCB121, RKCB130, and RKCB132

Accession_ No	Protein	WT			RKCB120			RKCB121			RKCB130			RKCB132		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
643714423	Athe_000	30.1	31.2	30.5	28.7	27.3	30.2	28.0	29.0	29.4	28.4	30.1	28.0	29.0	29.3	27.8
643714426	Athe_001	29.9	30.6	29.9	30.2	30.3	30.9	30.0	30.8	30.6	30.7	30.2	30.8	30.0	30.4	30.1
643714442	Athe_003	29.6	28.1	30.0	27.3	26.8	27.4	28.6		27.7				28.0	27.4	26.9
643714484	Athe_007	29.1	29.0	28.7	29.4	29.0	29.8	29.1	28.7	28.6	28.2	28.9	29.6	28.5	28.2	28.6
643714487	Athe_007	27.2	28.7	28.0	28.0	29.0	29.2	27.3	27.4	28.2	22.9	27.8		27.2	26.9	26.1
643714488	Athe_007	27.4	26.1	27.0	26.1		26.5					26.2		25.9	25.7	27.1
643714492	Athe_008	29.1	30.2	30.0	29.6	30.3		33.0	32.9	32.7	29.9	29.9	30.4	30.5	29.9	29.6
643714513	Athe_010	28.3	29.4	27.2	29.8	30.2	29.8	30.7	29.2	30.1	31.1	30.1	30.8	29.1	28.6	27.6
643714514	Athe_010	28.7	28.2	27.5	28.2		26.9	26.7		27.9	26.9	27.4	27.6	28.4	28.4	28.8
643714540	Athe_013		27.3	26.3											26.5	
643714563	Athe_016	34.7	35.3	34.7	33.2	33.2	34.1		33.1	32.8	33.5	33.2	33.4	33.3	32.4	33.3
643714583	Athe_018													23.5		
643714591	Athe_019		27.1	27.2	27.7	28.1			27.6	27.0	28.0	26.9		25.7	27.2	
643714607	Athe_020	29.6	28.3	28.9	28.4	27.0	27.3				27.1	27.8	27.7	29.0	28.6	29.3
643714617	Athe_021	31.1	31.2	31.1	31.9	30.7	31.4	31.6	31.7	32.0	31.0	31.0	30.7	31.7	31.4	31.8
643714623	Athe_022	31.8	32.9	31.6	30.2	29.8	31.7	31.6	31.3	31.5	32.1	29.9	29.9	28.2	30.0	30.3
643714671	Athe_027	30.3	29.2	28.2			28.8	28.7			28.3		27.8	28.8	27.5	28.2
643714687	Athe_029	33.8	32.5	33.2	31.4	29.0	32.3	33.5	32.0	32.8	33.2			31.5	32.0	33.1
643714731	Athe_034	30.7	31.2	30.8	29.2		26.4						26.8	27.0	28.1	24.5
643714821	Athe_043	27.0	29.2	27.2	26.8	29.9	28.7	29.9	30.4	30.1	27.6	29.5	29.4	28.7	28.7	28.3
643714825	Athe_043	25.6	25.1	27.5	28.0	26.8	26.7	26.3	26.5	27.3		27.4	26.7	26.0	21.6	27.2
643714847	Athe_045	28.0	26.9	28.5	27.9	25.6					26.8	28.1		29.2	29.3	28.3
643714848	Athe_046	30.3	28.4	29.1	29.0		27.6		26.0		29.3	29.4	28.8	30.2	29.8	28.9
643714866	Athe_047	28.3	29.7	28.8											27.3	27.2
643714905	Athe_052			26.3							26.8	25.4		25.9	25.1	
643714913	Athe_053	27.7	27.2													
643714917	Athe_053	28.5	29.8	29.5		28.7	29.2			28.4	31.3	28.9	27.1	30.0	30.4	27.9
643714977	Athe_059	30.5	31.0	30.5	29.4	27.8	28.3		27.7	27.6	28.6	28.2	28.5	27.4	28.8	28.9
643714980	Athe_059	33.7	34.9	34.0	35.2	35.1	35.7	35.1	35.2	35.3	35.1	35.1	35.0	34.7	34.2	34.2
643714992	Athe_061						28.2		26.2	27.7	26.8	27.4	29.8	22.9	25.0	26.8
643714995	Athe_061	28.8	28.9	28.5	30.9					29.8						
643715006	Athe_062	29.6	30.3	29.4	28.0	26.7	28.5			26.7	30.4	28.5	28.6	29.4	29.5	29.2
643715020	Athe_063	27.8			27.9	27.7	28.6		28.4		28.2	28.2			28.1	27.6
643715045	Athe_066				29.6		29.2					29.6	29.2	29.6	29.4	30.7
643715048	Athe_066	34.7	37.3	36.1	33.4	33.7	34.6	32.1	33.0	33.1	34.6	35.0	34.2	34.4	34.1	34.6
643715081	Athe_070		29.4											25.5		
643715143	Athe_076	27.0		23.3							23.2			25.8	25.0	25.8
643715202	Athe_082	27.8	29.1	28.4										26.7		26.5

643715221	Athe_084	28.9		27.9												27.6	
643715263	Athe_088	31.2	33.2	32.5	30.0	31.9	31.6			31.4		32.6	31.3	31.0	30.9	30.8	
643715277	Athe_090	33.3	32.7	32.2	34.3				29.8	31.0	33.2	32.9	32.1	30.2	30.4	30.5	
643715278	Athe_090	34.6	35.3	33.6	27.7	26.8	27.4			33.2	33.2	34.1	33.5	34.3	33.5	33.6	
643715311	Athe_094	33.5	31.4	30.8	29.6	29.3	30.6	30.1	27.8	29.5	31.7	30.9		28.6	27.9	27.8	
643715312	Athe_094	31.3	31.0	31.4		30.3			30.6	31.0	31.2	30.8	31.5	30.5	30.3	30.5	
643715363	Athe_099	33.2	33.1	32.4	30.2	29.4		25.4		30.1	30.5	28.8	30.3	31.6	32.0	32.7	
643715434	Athe_106	29.5	28.0		28.8											30.2	
643715446	Athe_108	26.5	28.7	27.6		24.0			25.4	24.8	23.3	28.1	28.4	26.0	26.3		
643715475	Athe_110	29.1	29.3	28.9	28.5		28.4				28.6			28.6	28.8	29.7	
643715524	Athe_115	29.5	28.3	28.7										28.9			
643715530	Athe_116	32.3	30.6	30.9	31.9	31.6				30.7	32.5	31.0		31.3	31.2	32.6	
643715535	Athe_117	28.2	27.5														
643715601	Athe_123			27.4												27.2	
643715628	Athe_126	30.4		29.4		29.1		28.5								29.7	
643715671	Athe_130	29.5	28.8	27.6	26.7							27.9		27.1	28.5	28.8	
643715714	Athe_134	28.2	28.8	28.0	27.7	27.1	27.3		28.4	28.0	28.6	28.1	28.0	27.5	26.8	27.9	
643715721	Athe_135	29.8	30.5	29.2	29.3	29.3	30.5	28.8	31.0	29.8	30.4	30.0	29.2	29.7	30.9	30.4	
643715725	Athe_136	30.2	30.1	29.5	28.9	27.4	28.4		27.0	27.7	26.7	28.3		28.7		27.0	
643715729	Athe_136	30.3	31.8	30.5	30.1	30.1	30.9	26.9	30.1	30.1	30.7	30.7	31.0	30.1	30.1	30.2	
643715787	Athe_142	29.3	29.8	29.3	25.3						27.1	27.3		29.1	30.0	28.7	
643715817	Athe_145	26.2	29.8	29.5	26.8	26.7	28.0			26.1	27.9	26.8	27.8			26.6	
643715879	Athe_151	25.7	28.4	26.7	27.4		27.8					27.8		27.0			
643715892	Athe_152	30.8	30.7	30.1	27.0		25.9			28.6	26.8	29.6	29.0	29.7	29.5	29.9	
643715913	Athe_154	28.0	28.4	27.4	25.2									24.2	26.0		
643715941	Athe_156	30.9	30.9		28.2	29.2	29.6		28.5	28.8		29.4	29.8	30.0	30.1	29.9	
643715944	Athe_157	29.2	30.1	29.6	29.5	29.7	29.3				28.6	29.8	29.2	30.5	29.3	29.5	
643715999	Athe_163	27.9	27.6	26.7					22.9					26.2		27.1	
643716022	Athe_165	25.8		24.1			28.0									22.6	
643716103	Athe_172	30.1	30.9	30.5	31.4	30.8			29.8	29.2	29.7	30.9	27.5	29.8	30.2	30.4	
643716120	Athe_174	32.4	31.0	30.0	29.9	29.0	28.9		28.5	29.2	27.4	29.9	29.6	31.1	30.4	30.9	
643716138	Athe_176	31.3	32.6	31.5	32.5	33.0	33.5	33.2	33.2	34.2	32.0	32.3	32.5	33.0	32.7	32.1	
643716139	Athe_176	27.5	28.7	27.9	29.1	29.7	30.0	31.2	31.9	31.8	29.9	28.9	29.3	29.5	29.9	29.7	
643716145	Athe_176	27.2	27.7	25.4	23.1		23.1	23.4		29.3	26.9	23.0	23.4	26.1	26.9	28.0	
643716160	Athe_178				29.8	29.5				29.0	30.3				29.1		
643716180	Athe_180	29.8												29.3	29.8	29.5	30.4
643716225	Athe_185	28.5	29.0	28.2	30.5	29.5	29.1	25.8	27.0	27.5	28.9	31.0	30.4	30.0	25.6	29.3	
643716226	Athe_185	33.3	33.2	34.1	34.8	34.0	35.3	33.7	34.3	34.5	35.2	35.1	35.1	33.4	33.6	34.0	
643716227	Athe_185	26.7				28.3						29.7			24.2	25.5	
643716229	Athe_185	26.3	28.2	27.5	29.8	30.6	31.4				31.2	32.0	31.7	29.9	30.0	29.5	
643716231	Athe_185	26.1	26.7	25.7	29.4	28.3	29.6										
643716233	Athe_186		30.5		29.4	30.7	31.8		30.1	30.9	32.1	31.5	30.7	30.3	31.0	31.0	
643716237	Athe_186	23.9			28.9	28.6	29.4		30.1	29.2	28.7	28.6	26.7			22.5	
643716238	Athe_186	25.1	21.3		28.7	28.3	29.0			30.1	29.2	28.8	29.2	27.5			

643716239	Athe_186	31.2	31.7	31.2											31.1	30.6	30.6
643716241	Athe_186	32.0	32.2	31.7	30.4	29.8	30.2	25.6	30.2	29.9	29.9	28.5	29.2	30.4	30.8	31.5	
643716242	Athe_187	27.5	28.9	27.4	28.4	29.0	29.5	27.6		27.7	26.7	28.0	27.8		26.5	24.7	
643716252	Athe_188			30.5	32.7	32.6	33.5					32.3	31.7	31.9	31.3	31.5	
643716285	Athe_191	27.9	28.5	27.5	30.8	31.9	31.3	30.8	31.4	30.5	31.8	30.7	31.4	30.0	30.2	29.7	
643716290	Athe_191	31.7	31.2	30.9	29.8	29.5	29.6		28.4	29.3		28.5	29.6		29.5		
643716296	Athe_192	30.9	31.7	31.1	28.6	31.3	29.9	30.1	31.2	31.7	30.9	30.5	30.8	29.3	27.9	28.9	
643716485	Athe_212	27.9	29.5	29.1	28.4	28.0	29.1	25.4	26.9	27.8	28.6	28.2	28.0	27.2	27.3	28.2	
643716538	Athe_217	29.0	31.2	31.1	28.9	27.9	29.3	29.3	29.4	30.1	30.0	29.0	29.2	29.4	29.7	28.1	
643716603	Athe_223			24.3										23.4	26.5	27.3	
643716606	Athe_224	27.3	29.0	28.9	24.3	25.3	26.7			25.9	27.7	26.2	28.7	28.1	29.5	29.5	
643716630	Athe_226	26.8	27.4				28.0		28.3	27.6		28.2	27.9		27.5		
643716649	Athe_228				29.3						29.9				26.8		
643716659	Athe_229	26.4	28.3	27.4	25.8	27.0	28.1		25.7	26.9	26.3	24.5	26.9	26.3		26.3	
643716667	Athe_230	33.2	34.4	33.6	31.6	31.5	32.0	31.7	31.3	31.3	32.1	32.0	32.6	31.7	31.5	31.1	
643716668	Athe_230	30.5	29.0	29.3	26.7	26.4	27.0	28.0		28.3	27.2	28.2	28.1	29.6	29.0	29.6	
643716674	Athe_231	30.8			32.9	32.3	33.1	32.5	32.0	32.3	32.8	32.7	33.2	32.6	32.2	32.3	
643716704	Athe_234	29.3	27.6	27.5	30.2	30.7		27.6	29.0	29.1	29.0	31.3	28.3	27.3	26.7	26.9	
643716706	Athe_234	25.1	29.0	27.5										24.7	25.8	25.4	
643716725	Athe_236	30.0	30.8	31.5			28.9		28.8		29.3		29.5	29.5	29.3	29.9	
643716732	Athe_236	26.3	27.2		27.1		27.5		27.2	27.0	25.6	24.9		27.3	26.6	27.1	
643716733	Athe_236		25.8	26.5								24.6	25.5		26.3	26.5	
643716826	Athe_246	25.4	25.8	27.5	27.2	26.7	28.2		27.6	23.1	27.6	23.7			26.4	23.8	
643716827	Athe_246	30.4	30.7	30.0	29.0	28.7	29.5	29.8	28.7	28.6	29.3	29.3	29.8	29.2	29.0	29.0	
643716918	Athe_255	31.4	32.4	32.0	29.2	28.1											
643716938	Athe_257	24.9	27.3			25.7	29.4				26.9		28.1	26.5	26.8		
643717021	Athe_265	28.4	28.7	27.9		27.8				27.3			28.2		27.2	27.7	
643717077	Athe_272	25.6	27.6										27.2				
643717086	Athe_272	37.7		37.6	36.0	35.7	36.6			34.3		36.8				35.8	
643717087	Athe_273	35.2	35.0	34.2	35.2	34.1	32.9				32.4		33.0	32.8		32.3	
643717094	Athe_273	31.4	31.6	31.3							31.0		27.8	30.6	31.0		

1

2

Supplementary Table S2 – Primers used for Operon PCR experiment		
Primer Number	Primer Sequence	Primer location
JMC702	gtatgctgaaatggcaaagatgtagtc	F Athe_1872
JMC703	gtgggtgggtgctaaccattatgaatg	F Athe_1871
JMC704	ggttcagcgatgctaacacagc	R Athe_1870/Athe_1871
JMC705	caattcaaagcggctactttgtatagggtag	F Athe_1870
JMC706	cacttgcaaacacaacaactgacattagc	R Athe_1869
JMC707	gaattatccgactgggtgtgtgtttgac	F Athe_1869
JMC708	cgctccatcctctgtgtctgaac	R Athe_1868
JMC365	atgagttcaagaccaagaggatggagc	F Athe_1868
JMC709	gccatggttactccatataccactcc	R Athe_1867
JMC710	gagaagagagcggactacaagagg	F Athe_1867/Athe_1857/Athe_1860
JMC711	ctcgcaatgccgtctcaag	R Athe_1859/Athe_1866
JMC712	tgacagaaaattgcctgcaagatc	F Athe_1859
JMC713	gaatgtccagtcagtgctgc	R Athe_1857
JMC714	ccgtgctgataggtgaatgg	F Athe_1866
JMC715	ccatgatgtagttacctgacatctg	R Athe_1865
JMC716	cagatggtgacctgacgag	F Athe_1865
JMC717	gtatcctgtggcaatcagaattgagag	R Athe_1864
JMC718	gcatatttagggaatccagtcatatggg	F Athe_1864
JMC719	gcggtaaatagcatccatataaattctgttc	R Athe_1863
JMC720	gaggtatctcctgcaaggtgg	F Athe_1863
JMC721	gtctgtgaatgcagttacattgtcaaattgg	R Athe_1862
JMC722	cgtagcatttctgaaaaatggcaaattgg	F Athe_1862
JMC723	ctcatttctcatttgccttaagctcttg	R Athe_1861
JMC724	gaagaagagggtttaaattagctgttgac	F Athe_1861
JMC725	accatctgtacttctgtaagcaccg	R Athe_1860
JMC726	ttcgcaagttatctaattgaagtgacttacc	R Athe_1856
JMC727	tggtaggatataactaacattaaaacctttagaagagc	F Athe_1856
JMC728	atgtcgaccatccatctctgttgc	R Athe_1855/Athe_1854
JMC729	gtggcatatggtcacgggc	F Athe_1855
JMC730	gtgtccaacttaatgcaccgtgtac	F Athe_1854
JMC731	caacatagttgtgctgttctgaatcgg	R Athe_1853
JMC732	gtaaagacacaggggagatacagataagg	F Athe_1853
JMC733	tgagacaattaaaatagtcgagagaaagagtctg	R Athe_1852
JMC571	tggtgggcaaacatgggagg	F in Athe_1860
JMC363	caacattccctacacgcacc	R in Athe_1860
JMC364	tccattaccaacagatcacatcgc	F in Athe_1859
JMC734	cgggtcccatagtgttcttgag	R in Athe_1859