

Supplemental Material to:

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**Distinct human antibody response to the biological
warfare agent *Burkholderia mallei***

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Supplemental Table 1. Complete results of the human glanders serum analysis

Bp locus	Bm locus*	Log ₂ (post-exposure/pre-exposure)	Product Name	DNA in Bm ATCC 23344	Protein present in <i>B. mallei</i> *	Pre-bleed signal intensity	64 day signal intensity	Comment¶
BPSL0007	BMA2786	0.75	general secretory pathway protein D	yes	yes	1268	2134	
BPSL0014	BMA2778	0.03	general secretory pathway protein J	yes	yes	2163	2205	
BPSL0041-m1	BMA2675	-1.26	outer membrane porin lipoprotein precursor	yes	yes	6250	2603	
BPSL0093-m2	NA	0.57	putative lipoprotein	no	no	1140	1694	
BPSL0262-m1	BMA3314	-0.13	putative transglycosylase	yes	yes	2213	2019	
BPSL0280-m1	BMA3335	-0.24	FlgK	yes	yes	2098	1775	<i>B. mallei</i> is aflagellar
BPSL0280-m2	BMA3335	0.43	FlgK	yes	yes	1472	1984	<i>B. mallei</i> is aflagellar
BPSL0326	PNC	0.53	putative outer membrane porin protein precursor	yes	PNC	1284	1859	gene present in <i>B. pseudomallei</i> K96243 and 99% identical sequence in <i>B. mallei</i> ATCC 23344 not called
BPSL0360-m1	BMA0105	-1.13	putative alkaline phosphatase	yes	partial	6107	2785	gene called in <i>B. mallei</i> SAVP1 but not <i>B. mallei</i> ATCC23344
BPSL0361	BMA0106	0.12	putative alkaline phosphatase	yes	yes	7913	8628	
BPSL0606	BMA0030	0.2	acyltransferase	yes	yes	1494	1716	
BPSL0665	BMA0216	0.24	acyltransferase	yes	yes	2488	2942	
BPSL0739	NA	-0.6	hypothetical protein	no	no	1536	1010	
BPSL0782-m2	BMA0278	0.71	putative type 4 fimbrial pilin protein	yes	yes	1571	2573	<i>B. mallei</i> not known to make T4P
BPSL0814	BMA0315	-0.2	putative RND family acriflavine resistance protein A precursor	yes	yes	3530	3070	
BPSL0881	NA	0.7	hypothetical protein	no	no	1410	2298	
BPSL0919	BMA2228	-1.63	4-hydroxy-3-methylbut-2-enyl diphosphate reductase	yes	yes	6218	2012	
BPSL0999-m3	BMA0711	1.24	putative OmpA family transmembrane protein	yes	yes	2316	5487	
BPSL1021	BMA0736	-0.66	inorganic pyrophosphatase	yes	yes	1838	1160	
BPSL1050	BMA3016	-1.64	hypothetical protein	yes	yes	5473	1751	
BPSL1108	BMA1926	0.59	3-carboxymuconate cyclase-like protein	yes	yes	1849	2775	
BPSL1173	BMA1874	-0.11	potassium-transporting ATPase c chain	yes	yes	2256	2093	
BPSL1207	BMA1834	0.65	polyribonucleotide nucleotidyltransferase	yes	yes	656	1029	
BPSL1317-m1	PNC	0.04	putative lipoprotein	yes	PNC	2567	2641	multiple long but partial DNA matches, no protein
BPSL1317-m2	PNC	0.58	putative lipoprotein	yes	PNC	1518	2276	multiple long but partial DNA matches, no protein
BPSL1431	BMA1430	-0.88	putative esterase/lipase	yes	yes	5938	3236	
BPSL1445	BMA1416	0.66	putative lipoprotein	yes	yes	2163	3421	
BPSL1465	BMA1397	0.42	family C40 unassigned peptidase	yes	yes	4958	6647	start codon discrepancy
BPSL1516	BMA1342	0.45	hypothetical protein BPSL1516	yes	yes	2895	3965	
BPSL1549	PNC	0.23	hypothetical protein BPSL1549	yes	partial	1345	1576	nonsense codon 2/3 of the way through the gene.

BPSL1597	PNC	0.29	hypothetical protein BPSL1597	yes	PNC	1390	1704	entire <i>B. pseudomallei</i> gene matches <i>B. mallei</i> DNA sequence, gene not called
BPSL1600-m1	BMA0988	0.28	putative cytochrome c-related lipoprotein	yes	yes	1611	1952	
BPSL1606	BMA0994	0.42	putative copper-binding periplasmic protein	yes	yes	2149	2874	
BPSL1626	PNC	0.75	putative fimbrial subunit type 1 precursor	yes	PNC	1799	3030	entire <i>B. pseudomallei</i> gene matches <i>B. mallei</i> DNA sequence, gene not called
BPSL1629	BMA1024	0.26	putative exported fimbria-related protein	yes	yes	2315	2772	start codon discrepancy
BPSL1631-rr1	BMA1027	0.89	putative outer membrane protein	yes	yes	2323	4303	the carboxy half of the protein has a 2nd highly identical match
BPSL1631-rr2	BMA1027	-0.01	putative outer membrane protein	yes	yes	1858	1850	the carboxy half of the protein has a 2nd highly identical match
BPSL1661-rr1	NA	0.45	putative hemolysin-related protein	no	no	2366	3235	
BPSL1661-rr4	NA	0.95	putative hemolysin-related protein	no	no	1486	2877	
BPSL1661s1	NA	0.42	putative hemolysin-related protein	no	no	1689	2267	
BPSL1661s10	NA	0.34	putative hemolysin-related protein	no	no	1842	2336	
BPSL1661s2	NA	0.47	putative hemolysin-related protein	no	no	3450	4772	
BPSL1661s3	NA	0.07	putative hemolysin-related protein	no	no	1661	1746	
BPSL1661s5	NA	1.3	putative hemolysin-related protein	no	no	5295	13037	
BPSL1661-s6	NA	-0.02	putative hemolysin-related protein	no	no	3296	3246	
BPSL1661-s7	NA	0.67	putative hemolysin-related protein	no	no	2771	4399	
BPSL1661-s8	NA	1.57	putative hemolysin-related protein	no	no	677	2014	
BPSL1661-s9	NA	0.83	putative hemolysin-related protein	no	no	885	1570	
BPSL1705-s1	NA	0.85	hypothetical protein BPSL1705	no	no	835	1505	very long partial match
BPSL1745	BMA1147	-0.91	carbamate kinase	yes	yes	2760	1472	
BPSL1821-m2	NA	0.84	putative fimbriae assembly-related protein	no	no	1510	2696	
BPSL1889	PNC	0.52	putative lipoprotein	yes	PNC	1782	2561	gene called in <i>B. mallei</i> SAVP1 but not <i>B. mallei</i> ATCC 23344, gene sequence present in both
BPSL1900	NA	0.33	hypothetical protein BPSL1900	no	no	1738	2186	
BPSL1901	BMA1042	0.54	hypothetical protein BPSL1901	yes	yes	2795	4062	
BPSL1902	BMA1043	0.95	hypothetical protein BPSL1902	yes	yes	2515	4859	
BPSL1913	BMA1056	0.85	RND efflux system outer membrane lipoprotein	yes	yes	2259	4067	
BPSL1925	BMA1071†	10.47	hypothetical protein BPSL1925	yes	yes	1	1420	gene called in <i>B. mallei</i> SAVP1 but not <i>B. mallei</i> ATCC 23344, gene sequence present in both
BPSL1937	BMA1088	1.09	lipoprotein	yes	yes	2874	6131	
BPSL1955	BMA1108	0.35	succinyl-CoA:3-ketoacid-coenzyme A transferase subunit A	yes	yes	6645	8468	
BPSL2015-m2	PNC	0.51	putative membrane attached glycosyl hydrolase	yes	PNC	1503	2147	gene called in <i>B. mallei</i> NCTC10229 but not <i>B. mallei</i> ATCC 23344, gene sequence present in both
BPSL2017-m1	BMA0887	0.11	Di-haem cytochrome c peroxidase	yes	yes	2054	2221	start codon discrepancy
BPSL2029	PNC	0.18	hypothetical protein BPSL2029	yes	PNC	1769	1998	gene called in <i>B. mallei</i> SAVP1 but not <i>B. mallei</i> , gene sequence present in both
BPSL2030	BMA0873	-0.51	hypothetical protein BPSL2030	yes	yes	1821	1282	

BPSL2031	BMA0872	0.6	hypothetical protein BPSL2031	yes	yes	1653	2514	
BPSL2063	BMA0840	0.74	hemagglutinin related protein	yes	yes	8462	14120	
BPSL2096	BMA1487	0.79	putative hydroperoxide reductase	yes	yes	1546	2679	
BPSL2158	BMA1554	0.07	elongation factor Ts	yes	yes	1534	1614	
BPSL2277	BMA1696	0.12	putative lipoprotein releasing system transmembrane protein	yes	yes	2034	2215	
BPSL2283	BMA1702	-0.07	hypothetical protein BPSL2283	yes	yes	4930	4696	
BPSL2298	BMA1716	0.28	phasin-like protein	yes	yes	1430	1731	
BPSL2499	BMA0410	0.35	electron transfer flavoprotein alpha-subunit	yes	yes	3141	4003	
BPSL2504	BMA0415	-1.01	putative hydrolase	yes	yes	6926	3433	start codon discrepancy
BPSL2520	BMA0434	3.43	hypothetical protein BPSL2520	yes	yes	1954	21026	
BPSL2522	BMA0436	0.56	outer membrane protein a precursor	yes	yes	1567	2305	
BPSL2559	BMA2089	0.57	outer membrane porin protein	yes	yes	891	1325	3 additional near perfect matches
BPSL2615	BMA2134	0.08	ABC transporter, substrate binding component	yes	yes	2042	2161	
BPSL2638	BMA2160	-0.32	CrcB-family inner membrane protein	yes	yes	2055	1642	
BPSL2697	BMA2001§	2.24	chaperonin GroEL	yes	yes	7576	35823	
BPSL2698	BMA2002	1.63	co-chaperonin GroES	yes	yes	1348	4173	
BPSL2748	BMA2066	0.1	putative oxidoreductase	yes	yes	1563	1672	
BPSL2752	BMA2070	-0.01	putative fimbrial protein precursor	yes	yes	1693	1681	<i>B. mallei</i> not known to make T4P
BPSL2756	BMA2073	1	minor T4P pilin	yes	yes	875	1753	<i>B. mallei</i> not known to make T4P
BPSL2765*-m2	BMA2082	-0.84	putative OmpA family lipoprotein	yes	yes	2922	1629	
BPSL2765-m3	BMA2082	-0.02	putative OmpA family lipoprotein	yes	yes	4251	4197	
BPSL2827	BMA2326	0.53	molecular chaperone DnaK	yes	yes	4799	6910	
BPSL2919	BMA2431	1.96	10 kDa chaperonin	yes	yes	1790	6943	
BPSL3130	BMA2705	-1.01	hypothetical protein BPSL3130	yes	yes	10437	5167	
BPSL3213	BMA2632	-0.76	50S ribosomal protein L3	yes	yes	8855	5220	
BPSL3222	BMA2642	2.11	50S ribosomal protein L7/L12	yes	yes	1766	7640	
BPSL3228	BMA2649	-0.75	elongation factor Tu	yes	yes	1490	887	
BPSL3247-m1	BMA2591	0.3	putative lipoprotein	yes	yes	3027	3730	start codon discrepancy
BPSL3319-m2	BMA2873	0.08	flagellin	yes	yes	3583	3793	
BPSL3336	BMA2891	0.04	curli production assembly/transport component CsgG	yes	yes	2485	2561	
BPSL3341	BMA2897	-0.98	hypothetical protein BPSL3341	yes	yes	7382	3752	
BPSL3396	BMA2957	0.15	ATP synthase subunit B	yes	yes	1479	1638	
BPSL3398	BMA2955	0.34	ATP synthase subunit A	yes	yes	6118	7735	
BPSS0065-m2	BMAA0076	0.97	hypothetical protein BPSS0065	yes	yes	1365	2677	
BPSS0088	NA	0.37	hypothetical protein BPSS0088	no	no	4458	5757	
BPSS0091	NA	0.49	fimbrial protein	no	no	1566	2206	
BPSS0094	NA	-0.46	fimbria subunit protein	no	no	1760	1283	protein has some short conserved regions in other fimbria
BPSS0109-m2	NA	0.15	hypothetical protein BPSS0109	no	no	3535	3927	
BPSS0122	NA	0.26	hypothetical protein BPSS0122	no	no	1882	2257	
BPSS0123	NA	0.08	hypothetical protein BPSS0123	no	no	1995	2107	
BPSS0140	NA	0.33	sugar ABC transport system, lipoprotein	no	no	1648	2070	

BPSS0144-m2	NA	0.74	amylase	no	no	1025	1712	
BPSS0212	BMAA1864	-0.46	hypothetical protein BPSS0212	yes	yes	3031	2197	
BPSS0226	BMAA1847	0.6	lipoprotein	yes	yes	2003	3027	protein matches almost exactly DNA does not
BPSS0252	BMAA1817	0.41	porin membrane protein	yes	yes	2065	2738	
BPSS0402	NA	0.58	bacteriophage/transposase fusion protein	no	no	1993	2976	
BPSS0412	NA	-0.16	hypothetical protein BPSS0412	no	no	985	882	
BPSS0421	NA	0.06	lipopolysaccharide biosynthesis protein (O-antigen-related)	no	no	1571	1641	
BPSS0455	NA	0.53	copper resistance-related lipoprotein	no	no	1505	2172	
BPSS0467	BMA1301	0.21	putrescine ABC transport system, binding exported protein	yes	yes	1597	1852	protein matches after amino terminus
BPSS0476	BMA2430/BMA2431	0.96	co-chaperonin GroES	partial	yes	1218	2377	protein split in half
BPSS0477	BMAA2001§	2.08	60 kDa chaperonin	yes	yes	8725	36954	protein matches, 5' end of gene does not
BPSS0530	PNC	0.49	hypothetical protein BPSS0530	yes	PNC	1303	1832	gene called in <i>B. mallei</i> SAVP1 but not <i>B. mallei</i> ATCC 23344, gene sequence present in both
BPSS0542	BMAA0465	0.14	glycosyl hydrolase	yes	yes	2650	2916	
BPSS0564	BMAA0488	0.52	thermolysin metalloproteinase	yes	yes	1336	1916	
BPSS0593	NA	1.02	iron-regulated membrane protein	no	no	2000	4056	
BPSS0663	NA	0.59	hypothetical protein BPSS0663	no	no	1258	1889	
BPSS0708	BMAA1122	0.76	porin protein	yes	yes	1588	2684	
BPSS0734-m2	BMAA1932	0.61	outer membrane efflux protein	yes	yes	7401	11262	
BPSS0752-m1	BMAA0593	-0.16	lipoprotein	yes	yes	2113	1887	
BPSS0752-m2	BMAA0593	0.43	lipoprotein	yes	yes	1677	2258	
BPSS0783-m1	BMAA0633	0.73	outer membrane porin protein	yes	yes	1010	1680	
BPSS0783-m2	BMAA0633	1.01	outer membrane porin protein	yes	yes	1172	2356	
BPSS0784	BMAA0634	0.56	hypothetical protein BPSS0784	yes	yes	1650	2425	
BPSS0796-s1	BMAA0649	0.07	surface-exposed protein	fragment	fragment	1823	1908	partial protein matches with BMAA0649
BPSS0796-s2	BMAA0649	0.07	surface-exposed protein	fragment	fragment	1932	2026	partial protein matches with BMAA0649
BPSS0144-m2	NA	0.74	amylase	no	no	1025	1712	
BPSS0796-s4	BMAA0649	0.55	surface-exposed protein	fragment	fragment	3440	5024	partial protein matches with BMAA0649
BPSS0839	BMAA0708	-0.02	hypothetical protein BPSS0839	yes	yes	1605	1587	
BPSS0879	BMAA1353	0.67	porin protein	yes	yes	781	1244	
BPSS0893	BMAA1339	0.36	porin protein	yes	yes	1587	2031	
BPSS0908	BMAA1324	0.64	surface-exposed protein	yes	yes	1321	2053	
BPSS0933	BMAA1298	0.84	methyl-accepting chemotaxis protein	yes	yes	5793	10364	protein matches after amino terminus
BPSS0940	BMAA1290	0.46	ornithine cyclodeaminase	yes	yes	2040	2802	<i>B. pseudomallei</i> has an 8 bp insert in the middle
BPSS0943-m2	BMAA1286	1.09	porin protein	yes	yes	488	1041	
BPSS0962-noss	BMAA1263	0.5	extracellular serine protease precursor	yes	yes	1717	2435	DNA has some gaps, protein matches after amino terminus
BPSS1068	NA	0.23	hypothetical bacteriophage protein	no	no	1827	2138	

BPSS1199	NA	0.18	hypothetical protein BPSS1199	no	no	1783	2022	
BPSS1337	BMAA0939	0.43	hypothetical protein BPSS1337	yes	yes	1783	2400	start codon discrepancy
BPSS1382-m2	NA	0.13	Endonuclease/Exonuclease/phosphatase family protein	no	no	5084	5557	
BPSS1385-m3	NA	0.67	ATP/GTP binding protein	no	no	2370	3767	
BPSS1390	BMAA1602	1.07	type III secretion system protein	yes	yes	1085	2283	better match to BPSS1592, both are E=0, BMAA1544 also related
BPSS1394-m3	BMAA1637	0.9	type III secretion system ATPase	yes	yes	1311	2452	protein matches after amino terminus, similar match to another T3S system ATPase
BPSS1401-m1	BMAA1630‡	10.41	type III secretion-associated protein	high identity match present	high identity match present	1	1359	
BPSS1406	NA	-0.07	hypothetical protein BPSS1406	no	no	2332	2218	
BPSS1434-s1	NA	0.81	membrane-anchored cell surface protein	no	high identity match present	1379	2418	protein and gene are highly repetitive, high identity of BPSS1439/BMAA0810
BPSS1434-s3	NA	0.8	membrane-anchored cell surface protein	no	high identity match present	1907	3312	protein and gene are highly repetitive, high identity of BPSS1439/BMAA0810
BPSS1434-s5	NA	0.19	membrane-anchored cell surface protein	no	high identity match present	3114	3554	protein and gene are highly repetitive, high identity of BPSS1439/BMAA0810
BPSS1434-s7	NA	-0.25	membrane-anchored cell surface protein	no	high identity match present	2588	2181	protein and gene are highly repetitive, high identity of BPSS1439/BMAA0810
BPSS1439-s1	BMAA0810	0.64	membrane-anchored cell surface protein	yes	yes	1315	2052	
BPSS1439-s5	BMAA0810	0.41	membrane-anchored cell surface protein	yes	yes	1530	2028	
BPSS1492	BMAA0749	-0.03	hemagglutinin related protein	yes	yes	3649	3579	
BPSS1512-m2	BMAA0729	0.18	secreted TssM deubiquitinase	yes	yes	4421	4993	
BPSS1516-m1	BMAA1514P NC*	-0.35	hypothetical protein BPSS1516	partial	partial	3314	2592	first half of DNA matches, no protein called
BPSS1525-m3	BMAA1523	0.83	G-nucleotide exchange factor	yes	yes	1017	1812	
BPSS1530	BMAA1528	0.28	HNS-like regulatory protein	yes	yes	1475	1788	
BPSS1531	BMAA1529	0.83	type III secretion system cell invasion protein	yes	yes	3818	6769	
BPSS1532-m1	BMAA1530	1.01	type III secretion system cell invasion protein	yes	yes	9215	18596	
BPSS1532-m2	BMAA1530	0.96	type III secretion system cell invasion protein	yes	yes	9185	17858	
BPSS1534	BMAA1532	1.03	type III secretion protein	yes	yes	2492	5099	
BPSS1535	BMAA1533	0.59	surface presentation of antigens protein	yes	yes	945	1422	
BPSS1544-m2	BMAA1543	0.69	Type III secretion system protein	yes	yes	2468	3974	
BPSS1545-m1	BMAA1544	-0.18	Type III secretion system protein	yes	yes	2277	2007	<i>B. mallei</i> has 15 bp insert towards the 5' end of gene, start codon issue
BPSS1546	BMAA1545	0.51	AraC-family regulator of type III secretion system	yes	yes	1415	2022	
BPSS1547-m1	BMAA1547	-0.87	type III secretion system protein	yes	yes	5929	3246	
BPSS1588-m3	BMAA1597.1	0.63	hypothetical protein BPSS1588	yes	yes	934	1449	amino terminus of protein doesn't match
BPSS1591	PNC	0.18	hypothetical protein BPSS1591	yes	PNC	1345	1528	gene called in <i>B. mallei</i> NCTC10229 but not <i>B. mallei</i> ATCC 23344, gene sequence present in both

BPSS1594	BMAA1604	0.5	hypothetical protein BPSS1594	yes	yes	1282	1807	amino terminus of protein doesn't match
BPSS1599	BMAA1609	0.97	type 4 pilus biosynthesis protein	yes	yes	1179	2313	
BPSS1600-m1	BMAA1610	0.2	type 4 pilus biosynthesis protein	yes	yes	2745	3163	
BPSS1610-m2	BMAA1621	0.15	AraC-family transcriptional regulator	yes	yes	2567	2847	12 bp insert in <i>B. pseudomallei</i>
BPSS1617	BMAA1628	0.38	type III secretion protein	yes	yes	2091	2718	
BPSS1620-m1	BMAA1630†	3.28	type III secretion protein	yes	yes	148	1441	
BPSS1624	BMAA1550	-0.47	type III secretion protein	yes	yes	2652	1921	protein matches after amino terminus
BPSS1649	BMAA1664	0.84	sugar-binding protein	yes	yes	896	1608	
BPSS1652	BMAA1667	0.32	patatin-like protein	yes	yes	2172	2711	
BPSS1679	BMAA1698	0.49	porin related exported protein	yes	yes	563	788	DNA has some gaps, protein matches after amino terminus
BPSS1722	BMAA1751	0.81	malate dehydrogenase	yes	yes	1711	2998	
BPSS1727	BMAA1756	0.47	hemagglutinin related protein	yes	yes	1589	2199	
BPSS1742	BMAA0427	0	outer membrane copper receptor	yes	yes	2912	2902	
BPSS1743	BMAA0426	-0.1	hypothetical protein BPSS1743	yes	yes	2117	1974	
BPSS1778	BMAA0308	-0.22	hypothetical protein BPSS1778	yes	yes	1829	1568	DNA is fragmented but protein matches
BPSS1845-m1	BMAA0259	-0.14	endonuclease/exonuclease/phosphatase family protein	yes	yes	2647	2408	
BPSS1850	BMAA0251	0.23	hypothetical protein BPSS1850	yes	yes	1664	1957	DNA is fragmented but protein matches
BPSS1974-m2	BMAA0090	0.24	lipoprotein	yes	yes	1669	1968	
BPSS1993-m1	BMAA1248	0.18	serine metalloprotease precursor	yes/fragment	yes/fragment	2479	2805	DNA and protein are both fragments with exact matches
BPSS1998-m1	NA	5.81	lipoprotein	no	no	27	1514	
BPSS2013	NA	0.6	hypothetical protein BPSS2013	no	no	1620	2451	
BPSS2043	NA	-0.84	hypothetical protein BPSS2043	no	no	6351	3538	
BPSS2052	NA	0.51	activator/secretion protein	no	no	1274	1809	
BPSS2053-s1	NA	0.44	cell surface protein	no	no	1194	1618	
BPSS2053-s2	NA	0.12	cell surface protein	no	no	2884	3136	
BPSS2053-s3	NA	0.26	cell surface protein	no	no	4255	5087	
BPSS2053-s4	NA	0.42	cell surface protein	no	no	10737	14392	
BPSS2053-s5	NA	-0.57	cell surface protein	no	no	2837	1913	
BPSS2053-s6	NA	0.37	cell surface protein	no	no	4966	6411	
BPSS2053-s7	NA	0.48	cell surface protein	no	no	2038	2840	
BPSS2053-s8	NA	0.15	cell surface protein	no	no	9213	10215	
BPSS2053-s9	NA	0.34	cell surface protein	no	no	11343	14400	
BPSS2136-m1	BMAA0356	1.15	family S43 non-peptidase homologue	yes	yes	1134	2516	
BPSS2141	BMAA0351	0.99	periplasmic oligopeptide-binding protein precursor	yes	yes	2053	4065	
BPSS2145	BMAA0346	0.75	hypothetical protein BPSS2145	yes	yes	1626	2742	
BPSS2160	BMAA1952	0.83	outer membrane porin protein	yes	yes	1282	2282	
BPSS2185	NA	0.11	pilus subunit protein	no	no	1961	2118	
BPSS2186	NA	-0.12	pilus subunit protein	no	no	2327	2147	
BPSS2192	NA	-0.01	hypothetical protein BPSS2192	no	no	1849	1835	

BPSS2193	NA	0.24	hypothetical protein BPSS2193	no	no	1870	2207	
BPSS2194	NA	0.67	hypothetical protein BPSS2194	no	no	1735	2753	
BPSS2277	BMAA2021	-0.11	hypothetical protein BPSS2277	yes	yes	1573	1457	
BPSS2288	BMAA2035	0.26	HSP20/alpha crystallin family protein	yes	yes	3356	4032	
BPSS2289	BMAA2036	0.63	porin protein	yes	yes	1617	2506	
BPSS2331	BMAA2092	0.47	lipoprotein	yes	yes	2740	3784	DNA has some gaps, protein matches after amino terminus

* PNC = protein not called in the *B. mallei* ATCC 23344 genome. NA = gene is absent from *B. mallei* ATCC 23344 genome. No = protein and gene are absent from *B. mallei* ATCC 23344 genome.

† DNA between BMA1070 and BMA1072 is 99% identical to BPSL1925 but gene not called.

‡ BMAA1630 corresponds to BPSS1620, cross-reaction possible due to very high identity to BPSS1401

§ BMA2001 corresponds to BPSL2697, cross-reaction due to very high identity to BPSS0477

¶ Comments on the protein or gene similarity or nature of the protein in *B. mallei*.