

**Appendix 1.** The accession number, protein length, molecular weight and other characteristics of 19 extracellular proteins of *A. baumannii*

No.	Protein Accession Number	Protein Length	Molecular Weight (kDa)	Protein Name	Localization (Probability)	Adhesion Probability	TMH	Similarity to Human Proteins	Antigenicity (Score)	Suitable Target
1	ADX01709.1	709	79.22	Phospholipase C	Extracellular (Prob.=0.972)	0.307	0	NO	0.44	-
2	ADX02140.1	726	78.56	Putative phosphatase	Extracellular (Prob.=0.964)	0.554	1	NO	0.48	-
3	ADX02173.1	143	15.46	Nucleoside diphosphate kinase	Extracellular (Prob.=0.945)	0.201	0	YES	0.30	-
4	ADX02311.1	649	70.86	FilF	Extracellular (Prob.=0.964)	0.650	0	NO	0.64	+
5	ADX02417.1	492	51.74	Putative uncharacterized protein	Extracellular (Prob.=0.965)	0.674	1	NO	0.72	+
6	ADX02876.1	336	36.10	Putative O-sialoglycoprotein endopeptidase gcp	Extracellular (Prob.=0.971)	0.244	0	YES	0.51	-
7	ADX03121.1	742	83.27	Phospholipase C	Extracellular (Prob.=1)	0.265	1	NO	0.40	-
8	ADX03638.1	339	36.39	FimA	Extracellular (Prob.=1)	0.706	0	NO	0.66	+
9	ADX03936.1	323	33.98	Putative Acid phosphatase	Extracellular (Prob.=0.965)	0.520	1	NO	0.62	+
10	ADX04125.1	506	55.28	Putative uncharacterized protein	Extracellular (Prob.=0.964)	0.563	1	NO	0.54	+
11	ADX04172.1	396	41.17	Extracellular serine proteinase	Extracellular (Prob.=1)	0.689	0	YES	0.62	-
12	ADX04185.1	294	32.49	Putative exported protein	Extracellular (Prob.=0.964)	0.533	0	NO	0.68	+
13	ADX04608.1	587	66.43	Alkaline phosphatase D	Extracellular (Prob.=0.972)	0.240	0	NO	0.49	-
14	ADX04983.1	226	24.11	Ttg2C	Extracellular (Prob.=0.964)	0.662	1	NO	0.73	+
15	ADX05008.1	143	15.65	Putative signal peptide-containing protein	Extracellular (Prob.=0.965)	0.570	0	NO	0.43	-
16	ADX05009.1	428	44.75	Subtilisin-like serine protease	Extracellular (Prob.=1)	0.623	0	NO	0.57	+
17	ADX05049.1	1288	138.68	PilY1	Extracellular (Prob.=0.964)	0.676	0	NO	0.62	-
18	ADX05080.1	826	92.02	PonA	Extracellular (Prob.=0.971)	0.408	0	NO	0.47	-
19	ADX05130.1	367	41.33	Putative DNA/RNA non-specific endonuclease G protein	Extracellular (Prob.=0.972)	0.335	1	YES	0.43	-

**Appendix 2.** Predicted B-cell discontinuous epitope(s) of putative immunogenic candidates against *A. baumannii*.

<b>Protein Name</b>	<b>Predicted Discontinuous Epitope(s)</b>	<b>Score</b>	<b>Color in 3D Modeling</b>
<b>FilF</b>	S109, K110, D111, N112, K113, D203, Q204, T206, K207, I208, S209, Q210, S211, V212, T213, T215, E216, Q218, N219, G220, A221, Y222, A223, S224, I225, K227, P228, W229	0.88	Red
	K491, P492, N493, S494, T495, T496, T497, D498, M499, S500, G501, Q502, C503, V506, S507, D508, S510, L511, I512, D513, N514, N515, G516, M517, Q518	0.86	Yellow
	T49, T50, S51, D52, N53, G54, A55, E56, D57	0.86	Green
	N264, C277, N278, R279, S280, T281, E283, E284, C285, L286, N287, N288, T289, I290, N291, L292, A320, V322, I323, D324, N325, K326, N345, A346, Q347, N348, N349, R365, N371, P372, N373, E374, D375, R414, N416, V417, D418, G419, D420, N421, Y422	0.84	Orange
	N547, P548, K549	0.84	Blue
	F466, S467, D468, T469, T470, I471, A551, N552, I553	0.8	Pink
	L230, D231, N233	0.8	Brown
	D31, N33, S34, G35, T36, N37, N38	0.8	Purple
	S77, S78, A79, T80, N81, F82, Y84	0.8	Black
	L402, S403, T404, G405, N406, Q408	0.8	Olive
<b>Uncharacterized protein (ADX02417.1)</b>	A51, P52, T53, D54, S55, A56, N57, L58, E59, K60, L61, R62, D63, N64, S65, S66, N67, I68	0.91	Red
	L226, G227, L228, G229, G230, F231, Y287, P288, V289, D290, G291, T292, V293, Q294, Y295, N296, A297, A298, G299, P300, H301, D302, P303, A304, Y305, P306, E307, P308, T309, G310, Q314, C325, S326, V327, L328, A329, A331, V332, A333, G334, K335, G336, S337, S441, D442, L443	0.84	Green
	M31, S32, D33, A34, E35, S37, A38, T39	0.82	Blue
	Q113, N114, F115, D116, A117, N118, G119, N120, P121	0.82	Pink
<b>FimA</b>	P205, T206, V207, M208, K209, S210, F212, R213, I215, S253, D254, T255, S256, N257, N263, S264, A265, A266, D267, S268, T269, K270, A271, N272, G273, T319, A320, S321, N322, V323, T324, A325, G326, E327, V328, K329	0.82	Yellow
	T26, L27, S28, K29, G30, F31, T32, T33, I62, S63, P64, N65, N66, S67, T68, T70, N72, R73, A74, S75, A111, F112, D113, S114, P129, N130, T131, T132, S136, P137, G138, F174	0.80	Green
<b>Putative acid phosphatase</b>	P307, A308, E311	0.86	Blue
	Y248, D249, L250, Y251, K252, L253, K254, F255, Q256, V257, T258, K259, D260, N261, K262, G263, N264, N265, F267, G268, L269, G270, I271, D272, A273, A274, P275, S276, A277, P278	0.85	Orange
	N78, D79, K80, Q81, I82, A83, A84, E85, N86, G87, P94, I95, G96, A97, P98, K105	0.8	Pink

<b>Uncharacterized protein (ADX04125.1)</b>	T372, C373, N374, G375, D406, S407, T408, T409, G410, C411, I424, K425, G426, S427, Q428, S429, Y430, S458, S459, E460, P461, N462, N463, S464, T465, Q466, Q467, Y468, K476, A477, N478, K479, V481, Q484, A485, G486, L487, D488, S489, R490, A492, D494, V495, L496, Q497, T498, T499, Q500, L501, E502, C503, S504, F505, S506	0.88	Red
	K42, P43, S44, E45, P46, T47, P48, E49, V50, M51, T52, D53, D90, K92, P94, S95, T96, L98, N99, P135, S137, I138, S139, N140, K141, T142, Q143	0.88	Yellow
	D80, T81, Q82	0.84	Blue
	S32, S33, S34, G35, G36, S37, S38, N39, T40, P41, T167	0.84	Green
	I285, D286, A288, K289	0.81	Orange
	K57, R63, N64, A84, S85, L86, T87, S88	0.81	Pink
<b>Putative exported protein</b>	V105, D106, P107, D108, S109, A110, T111, Q112, D113, D114, S115, S116, N117, A118, T119, S120, D121, N122, T123, T124, P125, A126	0.87	Red
	D95, Q96, L98, E99, L100, L101, H102, Q103, K104	0.87	Yellow
	T40, S41, S43, N44, I45, S46, V47, P48, T49, N50, L51, N52, W53, E54, L55, M56, Q57, K58, N59, Q60, Q61, L62, E63, D65, I66, R70	0.86	Blue
<b>Subtilisin-like serine protease</b>	R110, S112, S113, T116, Q117, A118, T119, P120, A121, Q122, Q123, K124	0.86	Yellow
	I189, S190, F192, I193, T194, G195, G196, G197	0.82	Blue
	P75, V76, A214, T216, S218, S219, A220, Q221, P222, S223, F224, V225, E226	0.81	Green
<b>Uncharacterized proteins (ADX05009.1)</b>	N63, T66, N69, R70	0.90	Red
	M1, D2, S3, K4, G5, K7, Q8, G21, I23, D24, L25, D26, A27, L28, V29, S30, N31, D32, S33, A71, G72, G73, S91, N92, R93, E94, V97, A98, N101	0.85	Yellow
	Y311, S313, I315, G316, G317, V318, S319, G321, N322, P323, V324, K325, C326, S327, D328, P329, T330, T331, C338	0.85	Green
	N382, S383, V384, N423, G424, T426, V427, N428	0.84	Blue
	R215, S216, Q217, G218, K219, W220, V221	0.83	Orange
	T159, A160, V161, N162, T163, P164, S165, S166, T167, C168, R169, V171	0.83	Pink
	I42, P43, S45, S46, V47, P48, S49, G50, L51, E52, Y56	0.82	Black
	D102, P103, N104	0.81	Brown