

**Table S1: The human immunoreactive proteins identified in TMPs and ECPs of *B.pertussis* Chinese WCV strain 58003 by PMF**

Spot ID	GI	Locus	Location	Protein Product	COG	Theoretical MW/pI	Experimental MW/pI	Mascot Score	Matched peptides	Sequence coverage
MP1	33592122	BP0966	OM-associated	sulfate-binding protein precursor (Sbp)	P	37913/7.83	50391/5.05	169	12	38%
MP2,12,16	33594369	BP3494	OuterMembrane	serum resistance protein (BrkA)	MU	103377/6.62	100156/6.50	172	16	22%
MP3	33594289	BP3405	OuterMembrane	outer membrane porin protein OmpQ	M	39141/5.59	40017/4.96	198	13	41%
MP4	33592006	BP0840	OuterMembrane	outer membrane porin protein precursor (OmpP)	M	41045/5.51	60211/4.07	209	14	51%
MP5	33591607	BP0379	Cytoplasm	putative L-lactate dehydrogenase (Ldh)	C	37214/5.59	50382/6.00	116	10	30%
MP6	33592912	BP1857	Cytoplasm	glutamate dehydrogenase (GdhA)	E	46323/5.97	40124/6.55	132	13	33%
MP7	33593353	BP2361	Cytoplasm	succinate dehydrogenase (SdhA)	C	64855/6.07	85202/6.49	101	11	20%
MP8	33592010	BP0844	Cytoplasm	NADH dehydrogenase delta subunit (NuoD)	C	47458/5.75	70241/5.97	157	15	34%
MP9	33592195	BP1054	Extracellular	pertactin precursor (Prn)	MU	93452/9.23	95763/6.52	102	12	26%
MP10,21	33594370	BP3495	Cytoplasm	chaperonin GroEL (GroEL)	O	57481/5.13	65346/5.48	192	16	26%
MP11	33593707	BP2747	OM-associated	putative ABC transport solute-binding protein	E	40652/6.17	55217/6.04	128	11	24%
MP13	33593471	BP2488	Cytoplasm	isocitrate dehydrogenase (Icd)	C	45793/5.71	70165/5.50	163	12	28%
MP15	33593298	BP2304	Cytoplasm	putative 2-hydroxyacid dehydrogenase	HE	33902/5.73	38683/5.96	179	12	56%
MP17	33594134	BP3228	Cytoplasm	putative septum site-determining protein (MinD)	D	29681/5.20	35873/4.69	88	7	23%
MP18	33594616	BP3757	Periplasm	putative ABC transporter, ATP-binding protein	Q	29624/5.26	35259/4.82	115	10	32%

<b>MP20</b>	33593524	BP2541	Cytoplasm	succinyl-CoA synthetase subunit beta (SucC)	C	40939/5.23	60228/4.57	151	13	25%
<b>MP24</b>	33593808	BP2864	Cytoplasm	putative alcohol dehydrogenase	CR	36683/5.94	59895/6.03	83	7	27%
<b>MP25</b>	33592150	BP1000	Cytoplasm	glyceraldehyde-3-phosphate dehydrogenase (GAPDH)	G	36284/6.37	49769/7.00	66	6	24%
<b>MP26</b>	33591361	BP0102	Periplasm	putative penicillin-binding protein precursor (PBP)	M	44879/7.80	70326/7.08	206	14	29%
<b>MP27</b>	33593772	BP2818	OM-associated	hypothetical protein BP2818	P	28742/7.82	35292/6.20	147	11	48%
<b>MP28</b>	33594649	BP3794	Unknown	putative bacterial secretion system protein (PtlF)	U	29471/6.30	34953/6.44	96	7	35%
<b>MP29</b>	33591491	BP0250	OM-associated	hypothetical protein BP0250	S	34534/7.66	35213/6.81	111	8	35%
<b>MP30</b>	33591370	BP0112	Cytoplasm	cystathionine beta-lyase (MetC)	E	43323/5.90	49306/6.33	107	9	31%
<b>SP1</b>	33594369	BP3494	OuterMembrane	serum resistance protein (BrkA)	MU	103377/6.62	80149/5.06	255	23	25%
<b>SP2</b>	33592195	BP1054	Extracellular	pertactin precursor (Prn)	MU	93452/9.23	93016/5.51	217	19	35%
<b>SP3</b>	33594444	BP3575	Periplasm	hypothetical protein BP3575	E	43185/5.92	45168/5.04	109	12	29%
<b>SP4</b>	33591281	BP0007	Cytoplasm	elongation factor Tu (EF-Tu)	-	42916/5.34	60057/5.00	138	12	34%
<b>SP5</b>	33592409	BP1285	OM-associated	leu/ile/val-binding protein precursor (LivJ)	-	39608/6.33	55326/5.21	96	9	35%
<b>SP6</b>	33592006	BP0840	OuterMembrane	outer membrane porin protein precursor (OmpP)	M	41045/5.51	49020/4.95	155	12	35%
<b>SP7</b>	33592122	BP0966	OM-associated	sulfate-binding protein precursor (Sbp)	P	37913/7.83	40221/6.52	203	15	60%
<b>SP8</b>	33592249	BP1112	OuterMembrane	putative outer membrane ligand binding protein (BipA)	-	137194/6.26	107433/4.87	309	28	37%
<b>SP9</b>	33591762	BP0558	OM-associated	amino acid-binding periplasmic protein	ET	36140/6.64	41680/6.24	157	13	36%
<b>SP10</b>	33592518	BP1420	Cytoplasm	elongation factor Ts (EF-Ts)	J	30904/5.31	43279/5.33	255	18	60%
<b>SP11</b>	33593898	BP2963	OM-associated	putative exported solute binding protein	Q	40317/8.26	39891/5.02	162	14	32%