Table 6a: Identification of *Y. pestis*-specific genes across a panel of strains of the two species

Regions from ST3	KIM10+ genes	CO92 genes	CO92 (O)	297RR (O)	Hambourg10 (O)	Exu184 (O)	6/69 (O)	KIM10+ (M)	PKH-4 (M)	PKR292 (M)	PAR13 (M)	Harbin (A)	Japan (A)	Margaret (A)	343 (A)	IP32953 (I)	IP33134 (I)	IP32790 (I)	IP32950 (I)	IP30215 (II)	IP32952 (V)	IP32802 (III)	IP32889 (III)	IP31833 (IV)	Primer 1	Primer 2
1 - also identified by Hinchliffe et al. (2003)	y3797	YPO0387	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	GCTGCAGGAAGGCAAAGAAGAG	ACCAAAGGTGGTCTGGCTCTTG
	y3796	YPO0388	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CCTCGAAGATGCCGCTGATG	GATGCGAACATCACCGACAGG
	NC	YPO0389	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	TGTTTGTGGGTACAAGTGCG	AGGTAAGGCCTTGCTGTGAC
	y3794	YPO0390	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CACACATCAACACCCAGCTTCC	ATCAGTATTCTCCGCGAGGCTG
	y3792	YPO0391	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	GCTATTCAGGACGAAAGTTCTAAGTGGTGGAGAACTTACCAGAAGATCACATTG	GCTGCTAATTTCCGCGCAATC
	y3791	YPO0392	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CGATTACGGAAACGGTATGTCGG	GCTGCTAATTTCCGCGCAATC
	y3790	YPO0393	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	ACAAGCCTGCATCAATATCCATTG	AACCCACATGTATCCGCACAAAC
	y3789	YPO0394	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	GAAGACACGGCAGAGGCCAAAG	CGTCACTTTCTCCGGCCTTTC
	y3786	YPO0396	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	ATTGCAAGGCCGACTCAATGAG	TAATCCGACCAACGCTTGCAG
	y3785	YPO0397	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	AGCAACTGGTAGCGCAGGTTG	AGCCAACGGAGTGACCAATACC
2	NC	YPO0523	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	+	TTTGAATATTAGCTCGCTGGC	CTGTATTTATACCAAACAAGGGTATTC
3 - assigned as "unique" by Hinchliffe et al. (2003)	NC	YPO1087	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	CTCCGTGATTCGATCGCTAAGG	AAGCAACAACACGACTTCACCG
	y3089	YPO1088	+	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	AAGCCCGTTTACATGATGACGC	GCGGTAATCGATGCAAGATGTG
	y3088	YPO1089	+	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	TCAGGATGTCACCGAGCAAACC	CAAATTGAGCGGCGAGAGGTC
	y3087	YPO1090	+	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	AGGCCGCCAGAGAAATCTCC	CGGGATAACGTTCACGCAGTG
	y3086	YPO1091	+	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	CGGGCGCTTTGCAGTATAATCC	GAGCATTGCCAATACCAGTGCG
	y3085	YPO1092	+	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	CATAACGAAATGGCGGCATTG	TGACTGCCCGTTTGACTGCTTC
	y3084	YPO1092a	+	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	AGCACAAACCTGCCTCAGCC	CGGGCAGCAGTTGAGGTATTG
	y3083	YPO1094	+	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	AAACCGGTGGTCTACCATGACG	TTAGCACGCGCCAGAGATTGAG
	NC	YPO1095	+	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	TCGACAGCGGAGTTTACATGG	CAGGTTAGAAAGGGATGTAGCC
	y3083	YPO1096	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	TGGGCTAAACCTTGGGATAGTTTC	CTGCGAAGCTTTGCTTTATTTCAC
	y3082	YPO1097	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	CACATCTGACAATCCCTTGTCCG	AAACGTTCTTCCCTCTGATGCG
	y3081	YPO1098	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	GCCAACCCGCTGCTTACTTG	AGCGCAGCCTCAATCACATCAG
4	y2934	YPO1252	+	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	-	-	-	-	-	-	TATTCGTGGCTGGGATGATGG	ATCATCCGTAACGCCTACTGCC
5	y2929	YPO1257	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	+	+	+	-	-	AGCCGTGTTTCCGTCTTCACTC	CGGATCTCTGCCAATATAGCGG
	y2928	YPO1258	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	TCGTGACCGTGCGGAACTTATC	AATCACACCTTTCGGAACAGGC
6	y2696	YPO1474	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	+	+	+	-	+	AAGCAACTCGACTGAAGAAGATACG	TTCCAGACTCCAGAGCCTGTAGG
	y2694	YPO1476	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	+	+	+	-	+	TCAACGAACACGCGCAATAATC	AATTAGTTCGCTGCCTTGCTCC
	y2692	YPO1477	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	+	+	+	-	+	ACAAAGTATTCCGGCCCATCAATG	TCCACACAAAGCATAGATGTCGTG
	y2690	YPO1480	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	+	+	+	-	+	CTCTCATACCGCCAGAACGCTC	GATGGTTTCAGCTCGCCGATAG
7 - also identified by Hinchliffe et al. (2003)	y1829	YPO1668	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CGCTTCTGGTGCCCTGTTTG	TGATCCCGTAAGCGCCAATAAG
	y1830	YPO1669	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	+	+	-	AACGCACCAGCAGCTATCGG	ACATGAACGGGCAGGGAATG
	y1831	YPO1670	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	AAAGCCGTGCAATTTGCATCTG	GCAGAGGCATAAGGAAAGCAGG
	y1832	YPO1671	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CATCGTTCCGTGATCCACATTG	ACCGGTTCAAGGTGGCTTTGG
8	y2490	YPO1817	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	+	+	+	-	+	GGCTCGGCAAGCGGTTATTTC	AATTGCTTCGGCTGGCATACTC
9	y2302	YPO2006	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	-	-	+	-	-	AGCATGATTGCTCGGTACACGG	TCCCAGCAGGGTTTGTGCAG
	y2301	YPO2007	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	-	-	+	-	-	AAATTGCGCAGTGCTGAGCC	TGATGCTAGCGGGTCAAACTGC
	y2300	YPO2008	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	-	-	+	-	-	GTTGTGGTCGATGGACGCAG	GAATAACCATGGCGTTTCCACC
	y2299	YPO2009	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	-	-	+	-	-	TAGCCGACAGGCGTGGTATCAG	ATGAGGACGCCGGGTGTTGTAG
	NC	YPO2009a	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	-	-	+	-	-	GCGCAAGACCGTTACGGTATTC	TGAGTCCTTGCGTTTGTGCTTG
10 - entire region assigned as "unique" by Hinchliffe et al. (2003)	y2227	YPO2084	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	AATCTGTGCAGGGATCATTGGG	TGCCATTTGCTCCTTCAGTGC
	NC	YPO2087	+	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CCCGCCGAAAGTCATGGATG	GCAGAAATCCTCTCGCCAATCC
	NC	YPO2087a	+	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	TTGACTGGATCCTGCTTGG	AATGGCTTAACTTGAGATGCG
	y2224	YPO2088	+	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CGTTCTGCGCGATATGACACTG	GGGATGAGATAACGCGGGTGTC
	y2223	YPO2089	+	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CAAGAGCGAACCCGCACATTAG	TGCTGCCACCTTTCCCTTGTC
	y2222	YPO2090	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	ACGAGGTTCAAGCCAGAGACCG	TGGCGATGGCAATTATCTTCG
	y2220	YPO2091	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	AGCCGAACTCAATGTTGTGACG	AAGCTGCTAACTCCCGCCTGAC
	y2219	YPO2092	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	GCACCCTGGATATCACAACAACG	CATTGGGTGGTGAGACGTACGAG
	y2218	YPO2093	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	TCCTTTCGCAACACTCAATTCG	ATAACGCGCACACGATAACGAG
	NC	YPO2094	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	AACGGATAAGGATGTGGTGC	GAACCTGAATCTTGCCATCC
	y2217	YPO2095	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	AAATTTGCAGAATTACCACATGAAG	TCTTGACCCAGCTTAAGTTTATCG
	NC	YPO2097	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	AACTGACGAGTGGCTGCACTGG	CATTAGCCTTCTCCCGCAACTG
	y2216	YPO2098	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	+	+	-	-	+	TGATCGGCAATGCTGAATCATG	ATCCAGCGCGGGAACTGTTC
	y2215	YPO2099	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	+	-	-	-	-	CTGTAATTGCCGCCCTGCTTG	CCGCTTATTTGGCTTGTGGC
	y2214	YPO2100	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CCGAGCGGTTAAGGGCTACATG	AAGCCTCACGGAAGCCAAATG
	y2213	YPO2101	+	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	-	-	-	-	-	-	GTTCTTGGTCAAGCCGAGCAGG	ACCGTATCTGCGAACCACACCC
	y2212	YPO2102	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	ACCTTGTCGATGGTGGCTGAAG	AAGCATCACCAACCTCTTTCGC
	y2211	YPO2103	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	GGCCGAAGCATTCCAACAGTC	CCGCGCCAGTTCTTTACGAG
	y2209	YPO2106	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	GTCGTGCTCCGTGAGTGTGTTG	CGCGCCACTCTTCGGTTAATC
	y2207	YPO2108	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	CTGTTGGACTTCGCAAAGCATG	CGGCAGCCATATGAGTGACAGC
	y2206	YPO2109	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	+	GCTCAAAGAGCAAGGCGAGAAC	CATCACCAAGCACCCGATCAC
	y2205	YPO2110	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	CGGTATTCAGGCGTTGAGTGC	CGTCGATTGGCGCAGTATCAG
	y2204	YPO2111	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	TTTAACGGCGTTTGCTTTAGCG	AATAGCTTCCACGGCCAGCATG
	y2203	YPO2112	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	TTGCCGGATACGACAAAGCTG	CAATCGCGCCAACCATTACG
	y2202	YPO2113	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	ATGCGAGCGACAGCAACACG	CAGTAAATGCGCTGGCTTAACG
	y2201	YPO2114	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	TACGATGTCGCCGGTTGGTAAC	ATATTGCCGTTCGGGTCTTTCC
	y2200	YPO2115	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	AGGTATTCCGTTGGCTGCTGAG	AAATGCCGTTGGTTATGCTTGG
	y2199	YPO2116	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	ATCCCGCAAATCACCGAAGTG	GAATACCACCGCCACTGTTTCG
	y2198	YPO2117	+	+	+	+	+	+	+	+	+	-	+	+	+	-	-	-	+	-	-	-	-	-	ACATTCACGTTTCGACACATGCC	TTCGGGTAGTTATTCGCAAGCAC
	NC	YPO2118	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CGGATGTCTGGCCTGCTTTC	ATAACGGACAGCGCAACGCTC
	y2197	YPO2119	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	CACTTGGCGCATCTTCAATTGC	CTTGAGCATCAATCGCATCCTG
	y2196	YPO2120	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	CATTTCTTTGGCGAACTCAGGG	CAACGGGTACGGCCTTGATG
	y2195	YPO2122	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	AGCCGCCAATGGTGATGAATC	AATCGCAGCCATTACCTGAACG
	y2194	YPO2123	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	-	-	GCGAGAACCTGGCGACAAAC	CAGCATGCCATCTTCCAGCAG
	y2192	YPO2125	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	TTGTCACACCGTGCGTCATTG	AATTTCGGCAAACGTTCTCGTG
	y2191	YPO2126	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	AATGAGCCATGGTTCGTTGCTG	TCCGTGAACTGGTCTTCGCTG
	y2190	YPO2128	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	GCGATCATTTGGCCTATGGTG	GGGTGCATACCGGGATTTATTC
	NC	YPO2128	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	TTTGGTGCTGGCTGGATGC	TGCGACTTCTGTTTGATTTGGG
	y2189	YPO2129	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	TCGGCAAGGATGAGTTGGAGC	ATACCCGCCGAGATAACCGC
	NC	YPO2130	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	GTGTAAGGTCAGCCCACCCAAG	CTGTTTGACCAGCCGCAGTTC
	y2188	YPO2131	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	TCGTCGCTACGGTGTCAATCAG	CAACTGGCATTGGAGGATTTCC
	y2187	YPO2132	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	TACCACAATCACCCGCAGTTGG	CGTTTGGCTGGTTGCTTAGCG
	y2186	YPO2133	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CAGGCACAGTCACGTCAGAAGC	AATATTCACATCGCCGGTACCC
	y2185	YPO2134	+	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	+	-	-	-	+	-	AATGGACTGGTGGCGTGTGG	ATATCCGGTGCCGCACTTACATC
	NC	YPO2135	+	+	+	+	+	+	+	-	+	+	+	+	-	-	-	-	-	-	-	-	-	-	CCGAGGTGGTACGGATTTAG	CAACCTGAAATCATCCAGGC
11 - also identified by Hinchliffe et al. (2003)	y2103	YPO2261	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	CATTTGATTGCTGACCCAACTGG	TCCACACCGCAATCATATATCCC

Top table (continued)

Region	Gene	YPO	Forward primer	Reverse primer
12	NC	YPO2466	TTGCATTGATTAGGGTGATTGTTTG	CGTGGTTACCATCGGCTTTATACAG
13	y1702	YPO2485	TGGTGAATATGTTGGATGGG	TCAGCTAATTGATTATCTAGGAATTG
13	y1701	YPO2486	TGCGGGTGGGAATGTGTTG	CATCCGCGCTATGGTAAACACCT
14 - assigned as "unique" by Hinchliffe et al. (2003)	y1685	YPO2503	TGTCAGGTATTCAATCGGCATCAC	TGCCTTTATGTCGCCATACACAG
15	y1144	YPO2574	TGCATGGGCCACGATCATC	TTTCACCCGCCAAGTAAGCTG
16	y0751	YPO3436	GGATGACTTTGCGCTATACCCG	ATGACGTCCTGCACTGAGGCAC
16	y0750	YPO3437	TCGAGATTGCCCACGGATAACG	GTAGCTGTGACCGCCAGTTTGC
17	y0265	YPO3609	AATGCAAGGTGCCCGAGGAC	GGAATTCGGCCCTTTAACCAAC
17	y0264	YPO3610	GTGGTGGGCTTGTGATGATGG	CGTCTTCTTCGACCAATCCATTG
18	y0254	YPO3616	GCCTCATTTGGGTTCTCAACAAG	TCACATTAACCGGGTACACCATCC
19	y3883	YPO3945	AACGGAGTGCTCGCCTGATTG	ACCACCTGCCTTTCCTGTTTCC
19	y3882	YPO3946	GCCATCCATCTTGGAACTCTGG	CCTCTGCGAGGTCGGTAAATTC
19	y3881	YPO3947	TGAAGCATTCCACGGTAAACCATAC	TTGATGCTGTAAGGCAAGATTCTGC
19	NC	YPO3948	TTTCTAGGCCAACTCATCGGTTG	AAATCATATGCGGCTGTTTCCC
20	y4039	YPO4018	AGCCTACCCACGAATCCATACG	CTCCACATGTTGGCCCAATTC
21 - assigned as "unique" by Hinchliffe et al. (2003)	y4049	YPO4028	GCAGGAAAGCCTCAGTTTGTGG	TTTCTTCTGCGGGCGAGAGTC
21	y4050	YPO4029	TCCGTTGCCTGGATTATTCCTG	CATTGGCTGAAGCGACCCTG
21	NC	YPO4031	CGCCAGTCGCTATTTATCGAGAC	AATGAATTCGTGCGTTAGAACCG
21	y4051	YPO4032	TTCCCGCTATTAGCTCATGGATTG	AGGCTAACCAATCTTTCAAGTGCAG
*only in CO92	absent	YPO2271	AACTTAGGTTATCACATTCGTTCTC	GCATATGCTAGGGCTTCTCTAAG
	absent	YPO2272	CCTGCTTTCCGCAAAGAATCTC	TGCTTCCTTCCGGAGGGTTG
	absent	YPO2273	TGGCGGACAAACAGAGAGCAG	CAGAAACCTGCCTTGCGAGTG
	absent	YPO2274	CCATCCTATCGGCAGGTCATG	TTGGGCGTCTCAATATTCCAGC
	absent	YPO2275	TGGTGCTCGCCAGCGTAATAAG	TCAGTAATGCCGCCATCTGATG
	absent	YPO2276	TGGATACATCAGGTTTCGATATTC	CCAGAGCAGCAGGACAGAG
	absent	YPO2276a	GCAGTTTCTGGCGCGACTTTC	CCAGCGACACCGGCATAAAG
	absent	YPO2277	GGCCGCATCTTCATTTCTCG	AGCCTAAGTTCCGACATCGCAG
	absent	YPO2278	GTAGTCCAGGGCTTCGTTGAAATC	CGAGTAGCCATTGCGGAGATAATC
	absent	YPO2279	AAGCATGGCGAATCTTCGGTAG	AAACATGGCCGCATCACGTAC
	absent	YPO2280	AGCCGTGATTTCTGACGATTCG	ACCGCTGGAACGATATTCAACG
	absent	YPO2281	TTCATGACACATCAGGAGCTGAAAG	AGGCCTGTTCATCCAGTTAGTTGG

NC : present, but not called
Identified in this study as *Y. pestis* -specific genes (or gene segments)
+ : amplification of expected size
- : no amplification

Table 6b: *Y. pestis* -specific gene clusters identified by genome comparison and strain

Y. pestis -specific regions	Locations in *Y. pestis* -CO92	Locations in *Y. pestis* -KIM10+		Product
		YPO0387	y3797	hyp. protein
		YPO0388	y3796	cons. hyp. protein
		YPO0389	NC	hyp. protein
		YPO0390	y3794	hyp. protein
		YPO0391	y3792	modification methylase
		YPO0392	y3791	hyp. protein
		YPO0393	y3790	hyp. protein
		YPO0394	y3789	hyp. protein
	403002-	YPO0396	4205743- y3786	hyp. protein
Cluster 1 (11846bp)*	414847	YPO0397	4217588 y3785	hyp. protein
		YPO1668	y1829	Putative membrane protein
	1898559-	YPO1670	2013875- y1831	cons. hyp. protein
Cluster 2 (8174bp)*	1906732	YPO1671	2022049 y1832	Putative DNA-binding protein
		YPO2084	y2227	Putative phage integrase (pseudogene)
		YPO2087	NC	Putative phage excisionase
		YPO2088	y2224	Putative methyltransferase
		YPO2090	y2222	Putative phage protein
		YPO2091	y2220	Putative phage antitermination protein
		YPO2092	y2219	hyp. phage protein
		YPO2093	y2218	Putative phage protein
		YPO2094	NC	hyp. phage protein
		YPO2095	y2217	hyp. phage protein
		YPO2097	NC	Putative phage protein
		YPO2100	y2214	phage regulatory protein
Cluster 3 (12666bp - putative lambdoid bacteriophage)* (585bp)		YPO2102	y2212	hyp. phage protein
	2362991-	YPO2103	2443827- y2211	Putative phage terminase (pseudogene)
	2375656	YPO2114	2456492 y2201	hyp. phage protein
	2541157-		2317545-	
Cluster 4 (775bp)*	2541931	YPO2261	2318319 y2103	hyp. protein
	2785156-	YPO2485	1885078- y1702	cons. hyp. protein
Cluster 5 (1868bp)	2787023	YPO2486	1886945 y1701	cons. hyp. protein
	4024090-	YPO3609	278130- y0265	cons. hyp. protein
Cluster 6 (1086bp)	4025175	YPO3610	279215 y0264	cons. hyp. protein

NC = Genes present but Not Called in that genome
* Regions that correspond to those found by microarray analysis (Hinchliffe et al. 2003)