

Gene.ID	Name	S29-2004	S41-2004	D34-2005	NL38-2004	NL40-2004	AR001-2005	AR004-2005	DZ002-2003	DZ003-2004	RUS45-1999	RUS54-1999	Functional description
		α	β	γ	α	β	β	β	β	β	β	α	β
RD-1	BP0910	transposase											transposase for IS481 element
	BP0911	unknown											putative decarboxylase
	BP0912	unknown											LysR-family transcriptional regulator (Pseudogene)
	BP0913	unknown											putative exported protein
	BP0914	unknown											probable inner membrane component of binding-protein-dependent transport system
	BP0915	unknown											probable inner membrane component of binding-protein-dependent transport system
	BP0916	unknown											putative ATP-binding protein of a transporter (Pseudogene)
	BP0918	unknown											conserved hypothetical protein
	BP0919	gabD											putative succinate-semialdehyde dehydrogenase [NADP ⁺]
	BP0920	unknown											putative exported protein
	BP0921	citB											citrate utilization protein B
	BP0922	unknown											conserved hypothetical protein
	BP0923	unknown											conserved hypothetical protein
	BP0924	unknown											putative transcriptional regulator
	BP0925	unknown											putative fumarylacetate-family hydrolase
	BP0926	unknown											conserved hypothetical protein
	BP0928	unknown											LysR-type transcriptional regulator
	BP0929	unknown											putative membrane protein
	BP0930	unknown											putative CoA ligase
	BP0931	unknown											putative exported protein
	BP0932	unknown											conserved hypothetical protein
	BP0933	unknown											conserved hypothetical protein (Pseudogene)
	BP0934	unknown											hypothetical protein
	BP0938	transposase											transposase for IS481 element
RD-2	BP1134	transposase											transposase for IS481 element
	BP1135	tauD											alpha-ketoglutarate-dependent taurine dioxygenase
	BP1136	fecI (ECF1)											ECF-family sigma factor
	BP1137	fecR											putative signal transduction protein
	BP1138	bfrH											putative ferric siderophore receptor
	BP1139	unknown											putative iron uptake protein
	BP1140	unknown											putative iron uptake protein (Pseudogene)
	BP1141	unknown											putative iron uptake protein
	BP1142	transposase											transposase for IS481 element

PCR validations for RD1 and RD2 for *B. pertussis* foreign isolates

 absent
 present

PCR validations for RD4 on *B. pertussis* French isolates

PCR Validation for RDA		RT-PCR Validation for French isolates			
Gene.ID	Name				Functional description
BP1447	transposase	Y	Y	Y	transposase for IS441 element
BP1449	unknown(1)	Y	Y	Y	branched chain amino acid-binding protein
BP1459	unknown(1)	Y	Y	Y	putative permease component of branched-chain amino acid transport system
BP1501	unknown(1)	Y	Y	Y	putative ATP-binding component of branched-chain amino acid ABC transporter
BP1502	unknown(1)	Y	Y	Y	putative ATP-binding component of ABC transporter
BP1554	unknown(1)	Y	Y	Y	putative cytochrome
BP1559	transposase	Y	Y	Y	putative endonuclease
BP1560	unknown(1)	Y	Y	Y	putative monooxygenase
BP1561	unknown(1)	Y	Y	Y	transposase for IS1663 element
BP1563	bfr1 (Bfr1)	Y	Y	Y	probable aldehyde dehydrogenase
BP1563BIS	unknown(1)	Y	Y	Y	putative transcriptional regulator
BP1565	unknown(1)	Y	Y	Y	putative transcriptional regulator
BP1566	unknown(1)	Y	Y	Y	putative exported protein
BP1567	unknown(1)	Y	Y	Y	putative sulfatase

PCR validations for RD4 on *B. pertussis* foreign isolates

PCR validations for RD4 on *B. parapertussis* and *B. bronchiseptica* isolates

Gene.ID	Name			Functional description
I1822		BP1947 transposase	BP1948 unknown (1)	transposase for IS481 element
		BP1949 unknown (1)	BP1950 unknown (1)	branched-chain amino acid-binding protein
		BP1951 unknown (1)	BP1952 unknown (1)	putative permease component of branched-chain amino acid transport system
		BP1953 unknown (1)	BP1954 unknown (1)	putative β -D-glucosidase component of branched-chain amino acid ABC transporter
		BP1955 unknown (1)	BP1956 unknown (1)	putative ATP-binding component of ABC transporter
		BP1957 unknown (1)	BP1958 unknown (1)	putative cytochrome
		BP1959 transposase	BP1960 unknown (1)	probable oxidoreductase
		BP1961 unknown (1)	BP1962 unknown (1)	putative monooxygenase
		BP1963 unknown (1)	BP1964 unknown (1)	transposase for IS1653 element
		BP1965 unknown (1)	BP1966 unknown (1)	probable aldehyde dehydrogenase
		BP1967 unknown (1)	BP1968 unknown (1)	putative flavocytochrome
		BP1969 unknown (1)	BP1970 unknown (1)	putative G-protein coupled receptor
		BP1971 unknown (1)	BP1972 unknown (1)	putative transcriptional regulator
		BP1973 unknown (1)	BP1974 unknown (1)	putative transcriptional regulator
		BP1975 unknown (1)	BP1976 unknown (1)	putative exported protein
		BP1977 unknown (1)	BP1978 unknown (1)	putative sulfatase

PCR validations for RD4



(*) results from previous study Caro et al., 2006

Validation	Target gene	<i>B. pertussis</i> isolates																<i>Bpp</i> isolates	<i>Bb</i> isolates			
		Tohamail Clp8132	FIN4-1982	FIN7-1992	HAV-1993	RN22-1993	RN44-1993	FR 0287-1996	FR 0307-1996	FR 0371-1997	FR 0743-1999	FR 0844-1999	FIN6=PRCB305-1999	FIN9=PRCB291-1999	FIN12=PRCB309-2000	FR3021-2003	FR 3080-2004	FR3126-2004	FR3207-2004	PRCB486-2004	PRCB492-2004	FR3279-2005
RD11	BPP0533	absent	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present
RD12	BPP0825	absent	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present
RD13	BPP0944-BPP0945	absent	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present
RD14	BPP4297	absent	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present	present

PCR validations for RD11, RD12, RD13 and RD14

- absent
- present
- isolates used for the run 454 GS-FLX