

Gene Name	Product	Function	Variant Position	Reference Alleles	Inserted Alleles	Start codon Impact	Stop codon Impact	Protein Impact
AOQ90_RS23450	hypothetical protein	unknown	56-bp deletion	56-bp deletion	56-bp deletion	Start codon deletion		Terminated Translation
AOQ90_RS18835	PE family protein	involved in host immune interaction and pathogenesis	[1, 434, 437, 438, 1056]	['T', 'C', 'G', 'G', 'A']	['-', 'V', 'V', 'V', 'C']	Partial Start	Stop codon deletion	Extended Translation
AOQ90_RS23115	YncE family protein	involved in cell envelope-related processes	[0, 944]	['T', 'T']	['-', 'C']	Partial Start	Stop codon deletion	Extended Translation
AOQ90_RS05725	PE family protein	involved in host immune interaction and pathogenesis	[0, 1441, 1650, 7740]	['C', 'A', 'A', 'G']	['-', 'G', 'G', 'A']	Start codon preserved	Partial Stop	Truncated Protein
AOQ90_RS09990	beta strand repeat-containing protein	involved in surface or host interaction	59-bp deletion	59-bp deletion	59-bp deletion	Partial Start	Partial Stop	Truncated Protein
AOQ90_RS10585	type I polyketide synthase	involved in lipid biosynthesis	63-bp deletion and 14 substitutions	63-bp deletion and 14 substitutions	63-bp deletion and 14 substitutions	Partial Start	Stop codon deletion	Extended Translation
AOQ90_RS20840	hypothetical protein	unknown	[0, 71, 72]	['-', 'C', 'C']	Partial Start	Early Stop codon		Truncated Protein
AOQ90_RS20845	PE family protein	involved in host immune interaction and pathogenesis	853-bp deletion and 3 substitutions	853-bp deletion and 3 substitutions	853-bp deletion and 3 substitutions	Start codon preserved	Partial Stop	Truncated Protein