

**S1 Table.** Homologues of the methylerythritol phosphate (MEP) pathway

Gene	AA	Protein homologue	Accession number	Identity / similarity	Proposed function
AA958_27820	655	B105_RS0102225, <i>Streptomyces</i> sp. CNT371	WP_027740976	95 / 97	deoxyxylulose phosphate (DXP) synthase
AA958_24380	635	B121_RS0122075, <i>Streptomyces</i> sp. CNH099	WP_027755386	93 / 96	
AA958_26245	419	B105_RS0118250, <i>Streptomyces</i> sp. CNT371	WP_027743595	97 / 98	DXP reducto isomerase
AA958_13460	269	B121_RS0109340, <i>Streptomyces</i> sp. CNH099	WP_027753224	96 / 98	MEP-cytidyl transferase
AA958_12100	321	I003_RS0122715, <i>Streptomyces</i> sp. CNQ329	WP_027773621	88 / 91	diphosphocytidyl-ME kinase
AA958_13455	178	B121_RS0109345, <i>Streptomyces</i> sp. CNH099	WP_027753225	94 / 98	ME cyclodiphosphate synthase
AA958_26255	384	B121_RS0119255, <i>Streptomyces</i> sp. CNH099	WP_027754914	98 / 98	hydroxymethyl-butenyl diphosphate (HMBDP) synthase
AA958_24310	382	B121_RS0131790, <i>Streptomyces</i> sp. CNH099	WP_027756924	95 / 98	
AA958_22700	305	I003_RS0110900, <i>Streptomyces</i> sp. CNQ329	WP_027771554	96 / 98	HMBDP reductase
AA958_24320	312	IO24_RS0138155, <i>Streptomyces</i> flavovariabilis	WP_031144193	80 / 91	HMBDP reductase
AA958_18615	311	IO24_RS0138155, <i>Streptomyces</i> flavovariabilis	WP_031144193	78 / 87	HMBDP reductase