

**Table 1: Comparison of homologous proteins involved in rhamnose synthesis between *S. spinosa* and *Streptomyces* hosts**

Name	Size (aa)	Accession number ( <i>S. spinosa</i> )	Function	Identities/ Similarities % [GenPept: Accession number]				
				<i>S. coelicolor</i> M145	<i>S. avermitilis</i> ATCC31267	<i>S. lividans</i> TK24	<i>S. albus</i> ATCC39012	<i>S. venezuelae</i> ATCC 15439
Gtt	293	AAK83289	Nucleotidyl- transferase	69/82 [YP_009091171]	69/82 [NP_822122]	27/49 [WP_003977438]	57/72 [WP_003951756]	72/84 [WP_015037177]
Gdh	329	AAK83290	Dehydratase	71/83 [YP_009091170]	71/83 [NP_822121]	27/38 [WP_003975202]	65/73 [WP_032783975]	63/74 [YP_006881543]
Kre	305	AAK83291	Ketoreductase	30/42 [WP_011031499]	31/43 [NP_821533]	30/42 [WP_016327984]	31/43 [WP_032784109]	30/42 [YP_006881132]
Epi	202	AAK83288	Epimerase	54/66 [YP_009091173]	54/66 [NP_822124]	33/46 [EFD71560]	60/72 [WP_030544290]	52/66 [YP_006881544]