

Supplementary Table 1 Enzymatic role on PLA-degradation of *Amycolatopsis* sp. from SEED database.

Microbial species	Category	Sub-category	Subsystem	EC number	Abbrev.	Functional roles
<i>Amycolatopsis alba</i> DSM 44262 ^T	Protein metabolism	Protein degradation	Serine endopeptidase	EC 3.4.21.-	GluXxx	Glutamyl endopeptidase precursor (EC 3.4.21.19), serine proteinase SspA
					GluXxx2	Glutamyl endopeptidase precursor (EC 3.4.21.19), blasé
					ProXxx	Prolyl endopeptidase (EC 3.4.21.26)
					LysXxx	Lysyl endopeptidase (EC 3.4.21.50)
<i>Amycolatopsis balhimycina</i> DSM 44591 ^T	Protein metabolism	Protein degradation	Serine endopeptidase	EC 3.4.21.-	GluXxx	Glutamyl endopeptidase precursor (EC 3.4.21.19), serine proteinase SspA
					GluXxx2	Glutamyl endopeptidase precursor (EC 3.4.21.19), blasé
					ProXxx	Prolyl endopeptidase (EC 3.4.21.26)
					LysXxx	Lysyl endopeptidase (EC 3.4.21.50)
<i>Amycolatopsis japonica</i> MG417-CF17	Protein metabolism	Protein degradation	Serine endopeptidase	EC 3.4.21.-	GluXxx	Glutamyl endopeptidase precursor (EC 3.4.21.19), serine proteinase SspA
					GluXxx2	Glutamyl endopeptidase precursor (EC 3.4.21.19), blasé
					ProXxx	Prolyl endopeptidase (EC 3.4.21.26)
					LysXxx	Lysyl endopeptidase (EC 3.4.21.50)
<i>Amycolatopsis mediterranei</i> U32	Protein metabolism	Protein degradation	Serine endopeptidase	EC 3.4.21.-	GluXxx	Glutamyl endopeptidase precursor (EC 3.4.21.19), serine proteinase SspA
					GluXxx2	Glutamyl endopeptidase precursor (EC 3.4.21.19), blasé
					ProXxx	Prolyl endopeptidase (EC 3.4.21.26)

					LysXxx	Lysyl endopeptidase (EC 3.4.21.50)
<i>Amycolatopsis orientalis</i> B-37	Protein metabolism	Protein degradation	Serine endopeptidase	EC 3.4.21.-	GluXxx	Glutamyl endopeptidase precursor (EC 3.4.21.19), serine proteinase SspA
					GluXxx2	Glutamyl endopeptidase precursor (EC 3.4.21.19), blaSE
					ProXxx	Prolyl endopeptidase (EC 3.4.21.26)
					LysXxx	Lysyl endopeptidase (EC 3.4.21.50)
<i>Amycolatopsis thailandensis</i> JCM 16380 ^T	Protein metabolism	Protein degradation	Serine endopeptidase	EC 3.4.21.-	GluXxx	Glutamyl endopeptidase precursor (EC 3.4.21.19), serine proteinase SspA
					GluXxx2	Glutamyl endopeptidase precursor (EC 3.4.21.19), blaSE
					ProXxx	Prolyl endopeptidase (EC 3.4.21.26)
					LysXxx	Lysyl endopeptidase (EC 3.4.21.50)
<i>Amycolatopsis tolypomyicina</i> DSM 44544 ^T	Protein metabolism	Protein degradation	Serine endopeptidase	EC 3.4.21.-	GluXxx	Glutamyl endopeptidase precursor (EC 3.4.21.19), serine proteinase SspA
					GluXxx2	Glutamyl endopeptidase precursor (EC 3.4.21.19), blaSE
					ProXxx	Prolyl endopeptidase (EC 3.4.21.26)
					LysXxx	Lysyl endopeptidase (EC 3.4.21.50)