

**Supplementary Table 3.** Cluster similarity in PSI-BLAST with P450 of SP6C4

Organism	Percent identity (%)	Aligned positions of Hit	E-value	Function
<i>Streptomyces griseus</i> subsp. <i>griseus</i> NBRC 13350	92.07	20-448 (429/448)	0	Cytochrome P450
<i>Streptosporangium roseum</i> DSM 43021	56.65	7-412 (406/412)	3.00E-124	Putative cytochrome P450 hydroxylase
<i>Streptosporangium roseum</i> DSM 43021	47.22	6-410 (405/416)	9.00E-90	Cytochrome P450
<i>Streptosporangium roseum</i> DSM 43021	46.25	14-424 (411/424)	2.00E-88	Cytochrome P450 (EC:1.14.99.-)
<i>Thermomonospora curvata</i> DSM 43183	45.65	4-413 (410/415)	8.00E-92	cytochrome P450
<i>Thermobispora bispora</i> DSM 43833	44.21	11-424 (414/424)	7.00E-83	Cytochrome P450 (EC:1.14.99.-)
<i>Mycobacterium tuberculosis</i> H37Rv	42.02	22-427 (406/428)	1.00E-73	Putative cytochrome P450 hydroxylase
<i>Mycobacterium smegmatis</i> str. MC2 155	40.78	43-446 (404/450)	2.00E-69	Putative cytochrome P450 hydroxylase

**Supplementary Table 4.** Linear regression ANOVA *post-hoc* analysis with Tukey's test

Treatment	Estimate	SE	df	P-value	Significant
lanM - P450	0.9	0.19518	126	9.69E-06	***
lanM - P450lanM	0.1	0.19518	126	0.609305	-
lanM - P450tsrD	1.1	0.19518	126	1.09E-07	***
lanM - tsrD	0.55	0.19518	126	0.005614	**
lanM - SP6C4	1.55	0.19518	126	9.54E-13	***
lanM - Untreated	1.7	0.19518	126	1.45E-14	***
P450 - P450lanM	-0.8	0.19518	126	7.39E-05	***
P450 - P450tsrD	0.2	0.19518	126	0.30747	-
P450 - tsrD	-0.35	0.19518	126	0.055337	*
P450 - SP6C4	0.65	0.19518	126	0.001138	**
P450 - Untreated	0.8	0.19518	126	7.39E-05	***
P450lanM - P450tsrD	1	0.19518	126	1.10E-06	***
P450lanM - tsrD	0.45	0.19518	126	0.022769	*
P450lanM - SP6C4	1.45	0.19518	126	1.45E-11	***
P450lanM - Untreated	1.6	0.19518	126	2.39E-13	***
P450tsrD - tsrD	-0.55	0.19518	126	0.005614	**
P450tsrD - SP6C4	0.45	0.19518	126	0.022769	*
P450tsrD - Untreated	0.6	0.19518	126	0.002589	**
tsrD - SP6C4	1	0.19518	126	1.10E-06	***
tsrD - Untreated	1.15	0.19518	126	3.26E-08	***
SP6C4 - Untreated	0.15	0.19518	126	0.443616	-