

Mutagenesis steps	Number of colonies isolated	Number of isolates for next round of mutagenesis*	Threshold for diameter ratio between clearing zone and colony
Start strain <i>OXPoxGA15A</i> ↓ 1 st EMS mutagenesis Mutant E1-1 ↓ 2 nd EMS mutagenesis Mutant E2-3 ↓ 3 rd EMS mutagenesis Mutant E3-16	441	13	> 1.48
↓ ARTP mutagenesis Mutant A1-2	1120	35	> 1.70
↓ ARTP-EMS mutagenesis Mutant A2-13	796	28	> 1.75