

Table S1. The plasmids and strains used in the study.

Plasmid/ Strains	Relevant characteristics	Reference
Plasmids		
pXS-G418	Gene deletion vector	Presented
pBARGPE1-Hygro	Gene expression vector	Presented
pXS-5162	Derived from pXS-G418, with the 5162-deleted cassette added	This study
pBA-5162	Derived from pBARGPE1-Hygro, with the <i>chs 6</i> fragment added	This study
Strains		
<i>E. coli</i> DH5 α	Cloning	Purchase
<i>M. purpureus</i> LQ-6	Wild-type strain	<i>Monascus. purpureus</i>
<i>M. purpureus</i> Δ 5162	Knocking out gene <i>chs 6</i> in <i>M. purpureus</i> LQ-6	This study
<i>M. purpureus</i> cp-5162	Complementation expression of gene <i>chs 6</i> in <i>M. purpureus</i> Δ 5162	This study