

Supplementary Data 2

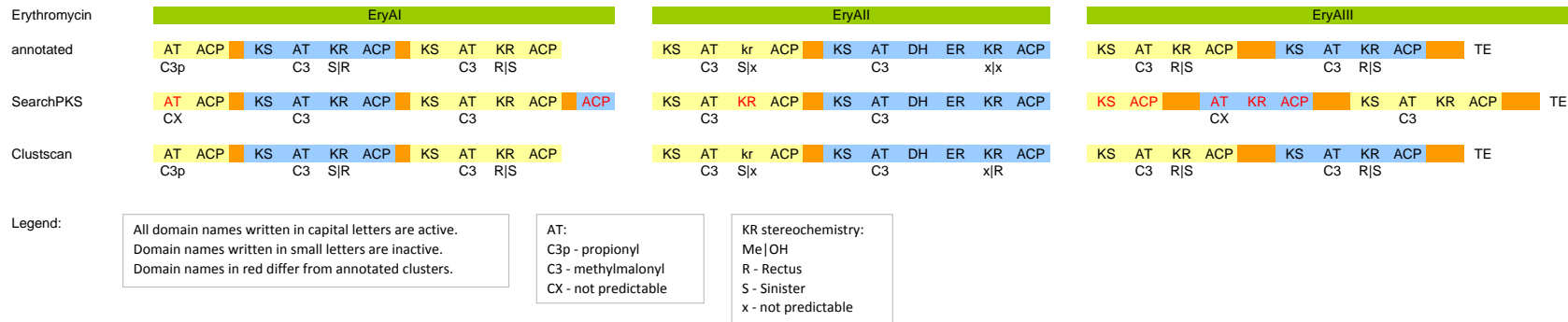
Fig. 1S Gene cluster annotation for the erythromycin producing polyketide synthase, comparing the original sequence annotation (Genbank accession number AY661566) with *ab initio* gene predictions using the SEARCHPKS and **ClustScan** annotation programs

Fig. 2S Gene cluster annotation for the niddamycin producing polyketide synthase, comparing the original sequence annotation (Genbank accession number AF016585) with *ab initio* gene predictions using the SEARCHPKS and **ClustScan** n annotation programs

Fig. 3S Gene cluster annotation for the tylactone producing polyketide synthase, comparing the original sequence annotation (Genbank accession number SFU78289) with *ab initio* gene predictions using the SEARCHPKS and **ClustScan** annotation programs

Fig. 4S Gene cluster annotation for the rifamycin producing polyketide synthase, comparing the original sequence annotation (Genbank accession number AF040570) with *ab initio* gene predictions using the SEARCHPKS and **ClustScan** annotation programs

Supplementary Data 2 Figure 1S: Gene cluster annotation for the erythromycin producing polyketide synthase, comparing the original sequence annotation (Genbank accession number AY661566) with *ab initio* gene predictions using the SearchPKS and ClustScan annotation programs.



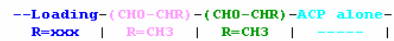
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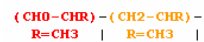
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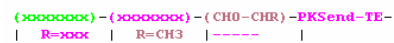
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Supplementary Data 2 Figure 2S: Gene cluster annotation for the niddamycin producing polyketide synthase, comparing the original sequence annotation (Genbank accession number AF016585) with *ab initio* gene predictions using the SearchPKS and ClustScan annotation programs.

Niddamycin	nidA1	nidA2	nidA3	nidA4	nidA5
annotated	KSQ AT ACP C2a	KS AT DH KR ACP C2	KS AT kr ACP C3	KS AT DH ER KR ACP EM	KS AT KR ACP C2
SearchPKS	KS AT ACP C2	KS AT KR ACP C2	KS AT DH KR ACP C2	KS AT KR ACP EM	KS AT KR ACP C2
ClustScan	KSQ AT ACP C2a	KS AT DH KR ACP C2	KS AT kr ACP C3	KS AT DH ER KR ACP EM	KS AT KR ACP C2

Legend:

All domain names written in capital letters are active.
Domain names written in small letters are inactive.
Domain names in red differ from annotated clusters.

AT: malonyl
C2 - malonyl
C2a - acetyl
C3 - methylmalonyl
MM - methoxymalonyl
EM - ethylmalonyl
CX - not predictable

KR stereochemistry:
Me|OH
R - Rectus
S - Sinister
x - not predictable

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Supplementary Data 2 Figure 3S: Gene cluster annotation for the tyactone producing polyketide synthase, comparing the original sequence annotation (Genbank accession number SFU78289) with *ab initio* gene predictions using the SearchPKS and ClustScan annotation programs.

Tyactone	tyIG1	tyIG2	tyIG3	tyIG4	tyIG5
annotated	KSQ AT ACP C3p C3 R R	KS AT DH KR ACP C2 x x	KS AT kr ACP C3 x x	KS AT DH ER KR ACP EM x x	KS AT KR ACP C2 x S
SearchPKS	KS AT ACP C3	KS AT DH KR ACP C2	KS AT KR ACP C3	KS AT DH ER KR ACP EM	KS AT KR ACP C2
ClustScan	KSQ AT ACP C3p	KS AT DH KR ACP C2 R R	KS AT kr ACP C3 S x	KS AT DH ER KR ACP EM R R	KS AT KR ACP C2 R S

Legend: All domain names written in capital letters are active. Domain names written in small letters are inactive. Domain names in red differ from annotated clusters.

AT: C2 - malonyl
C3 - methylmalonyl
C3p - propionyl
EM - ethylmalonyl
CX - not predictable

KR stereochemistry: Me|OH
R - Rectus
S - Sinister
x - not predictable

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Supplementary Data 2 Figure 4S: Gene cluster annotation for the rifamycin producing polyketide synthase, comparing the original sequence annotation (Genbank accession number AF040570) with *in silico* gene predictions using the SearchPKS and ClustScan annotation programs.

Rifamycin	rifA	rifB	rifC	rifD	rifE
annotated	ACP KS AT dh KR ACP KS AT ACP KS AT kr ACP C3 x R C2 C3 x x	KS AT DH KR ACP KS AT dh KR ACP KS AT dh KR ACP C3 x x C3 R S C3 S R	KS AT dh KR ACP C3 S S	KS AT dh KR ACP C3 R R	KS AT DH KR ACP KS AT DH KR ACP C2 x x C3 C3 x x
SearchPKS	ACP KS AT DH KR ACP KS AT ACP KS AT KR ACP C3 C2 C3	KS AT DH KR ACP KS AT DH KR ACP KS AT DH KR ACP C3 C3 C3	KS AT DH KR ACP C3	KS AT DH KR ACP C3	KS AT DH KR ACP KS AT DH KR ACP C2 C3
ClustScan	ACP KS AT dh KR ACP KS AT ACP KS AT dh kr ACP C3 R R C2 C3 R x	KS AT DH KR ACP KS AT dh KR ACP KS AT DH KR ACP C3 R R C3 x S C3 x S	KS AT DH KR ACP C3 x S	KS AT dh KR ACP C3 R R	KS AT DH KR ACP KS AT DH KR ACP C2 R R C3 x S

Legend:

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AT:
C2 - malonyl
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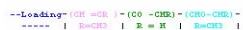
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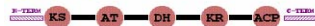
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