

# 화학농약 혼용가부표

## 재노탄<sup>®</sup>

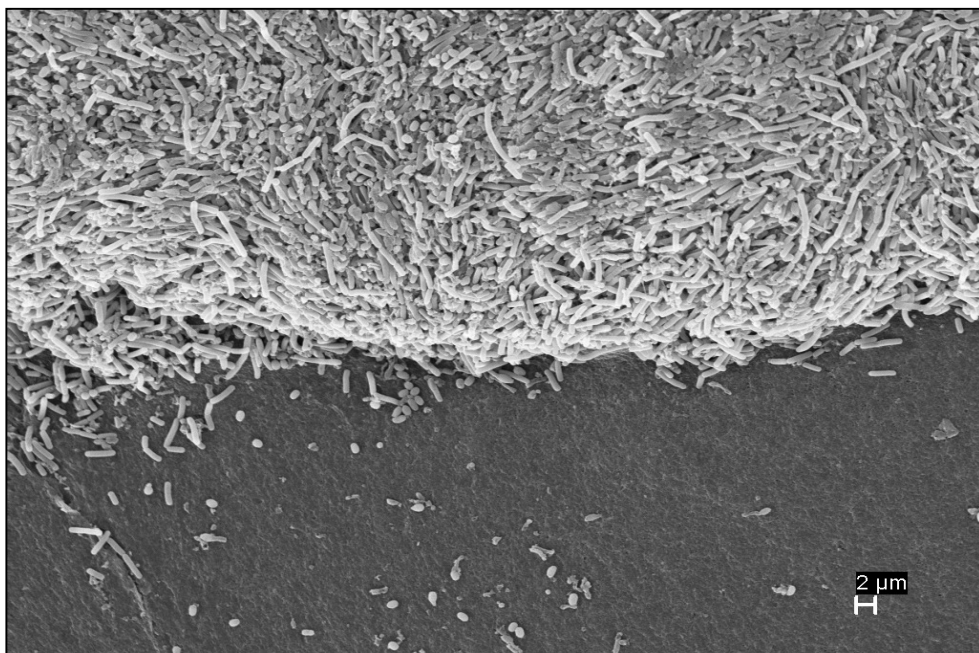
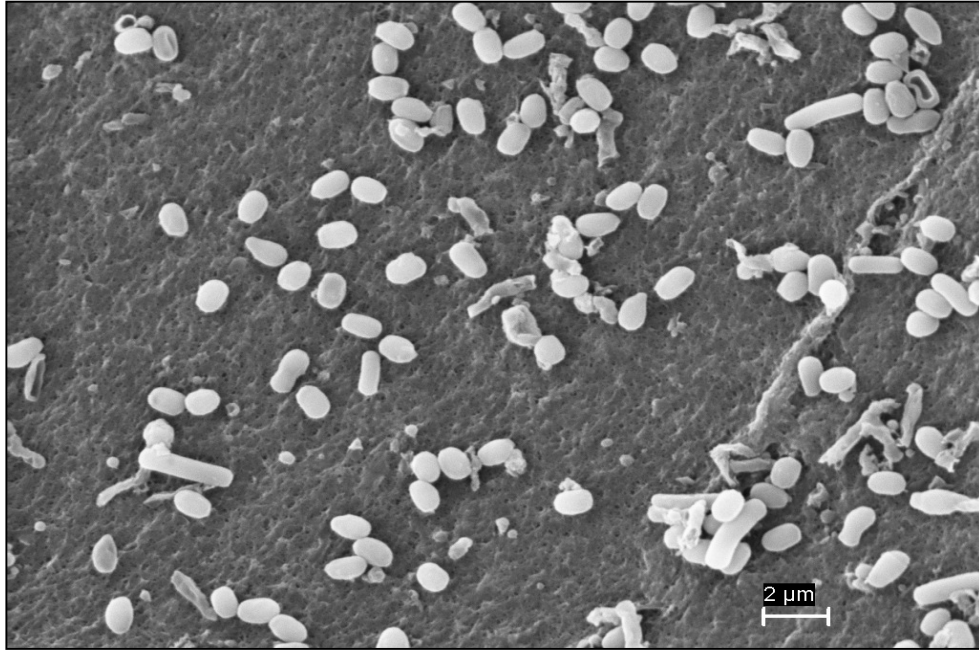
천연식물보호제(생물농약)



주식회사 한국바이오케미칼

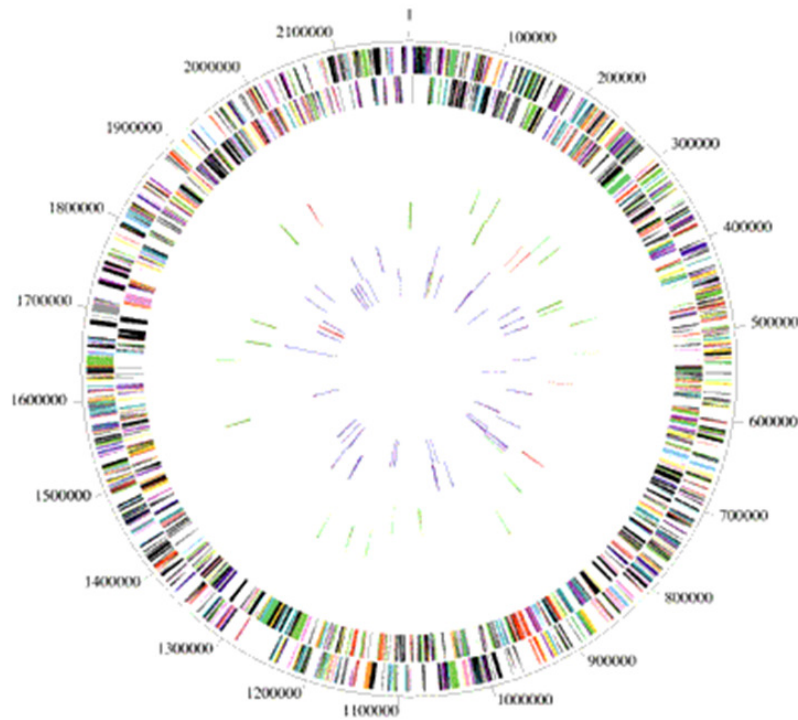
# ZENOTAN<sup>®</sup> 현미경사진

[*Bacillus subtilis* KBC 1010]



# ZENOTAN<sup>®</sup> 유전정보

[*Bacillus subtilis* KBC 1010]



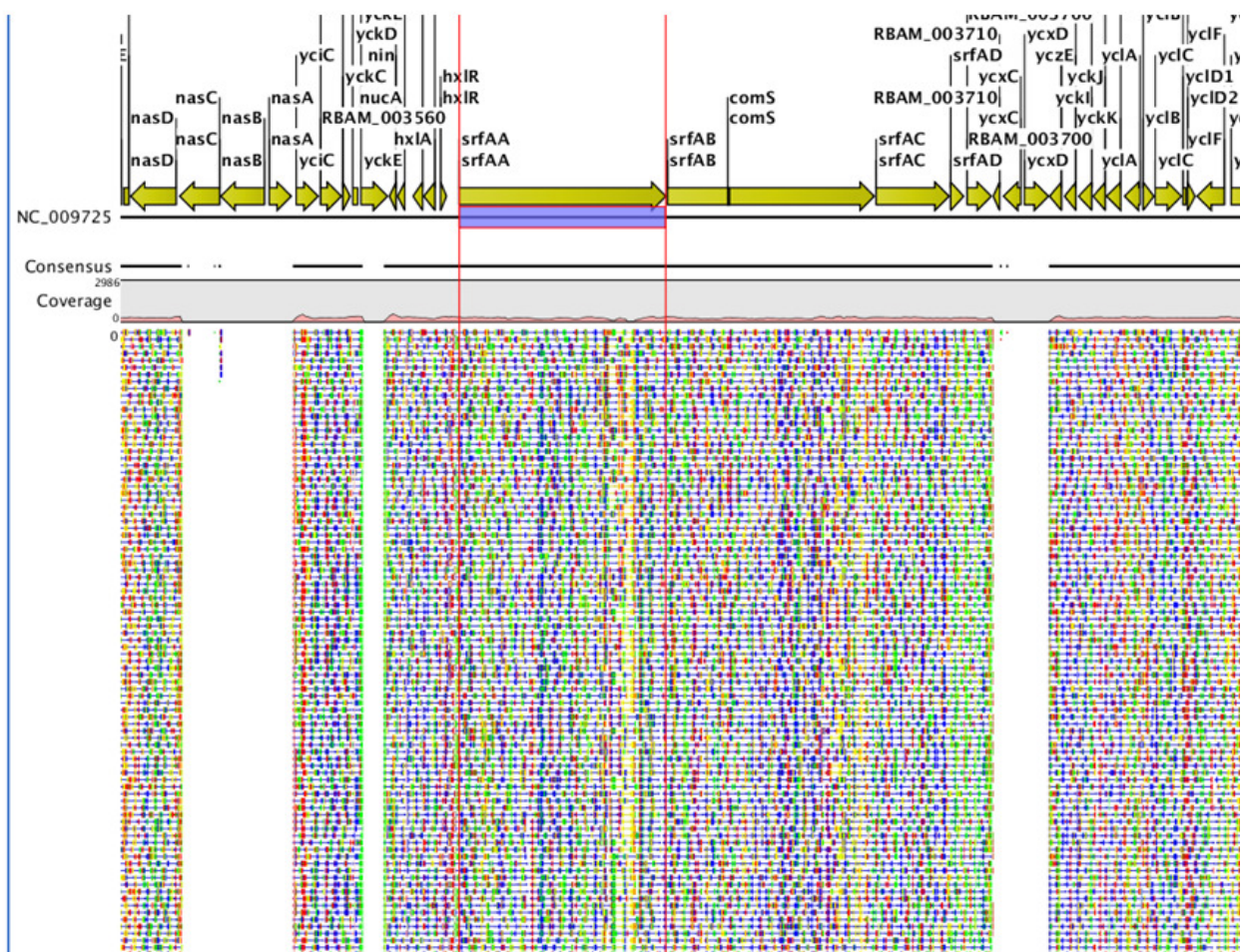
*Bacillus subtilis* kbc1010은 각종 식물병에 강력한 효과가 확인되었으며, 특별히 병원균에 의해 유도되는 항균물질의 균사생장 억제능이 강하게 나타났으며 이는 whole genome sequence와 이화학적 분석을 통해 확인되었으며,

특히 다양한 화학농약과의 혼용으로 완벽한 식물병예방과 방제력을 나타내었다.



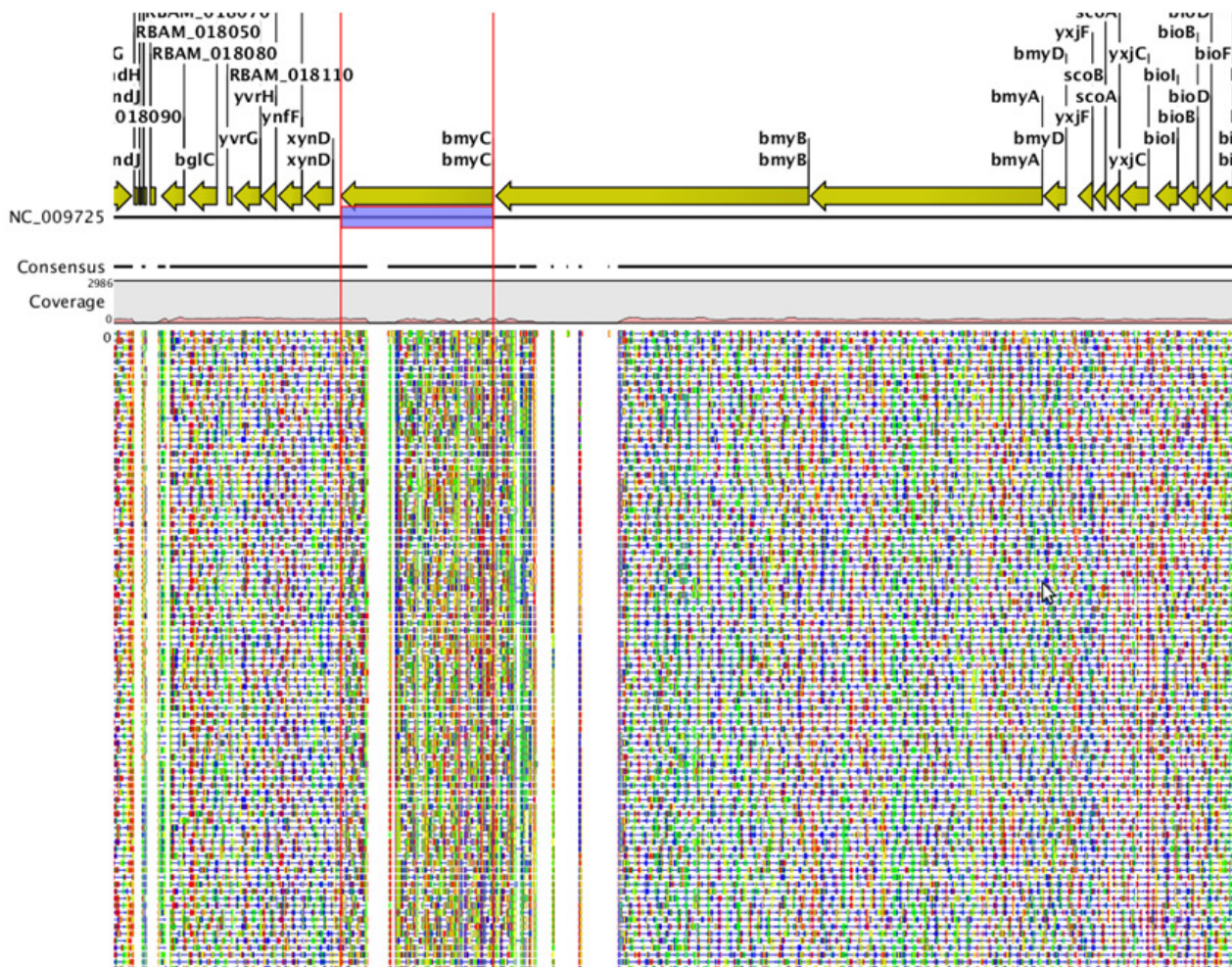
The chromosomal region of the focus gene (top) is compared with four similar organisms. The graphic is centered on the focus gene, which is red and numbered 1. Sets of genes with similar sequence are grouped with the same number and color. Genes whose relative position is conserved in at least four other species are functionally coupled and share gray background boxes. The size of the region and the number of genomes may be reset. Click on any arrow in the display to refocus the comparison on that gene. The focus gene always points to the right, even if it is located on the minus strand.

### 1. Surfactin)

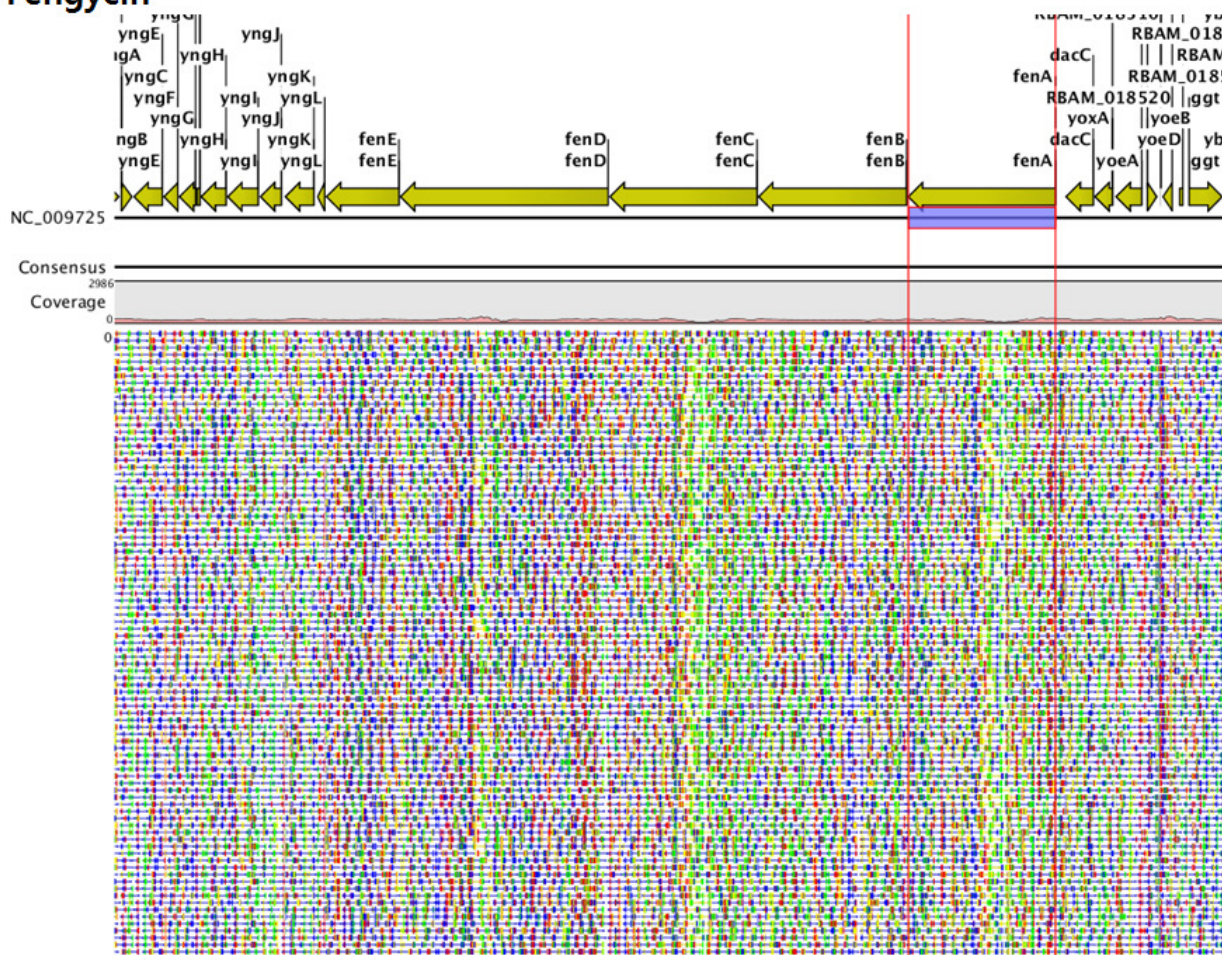




## 2. Bacillomycin D

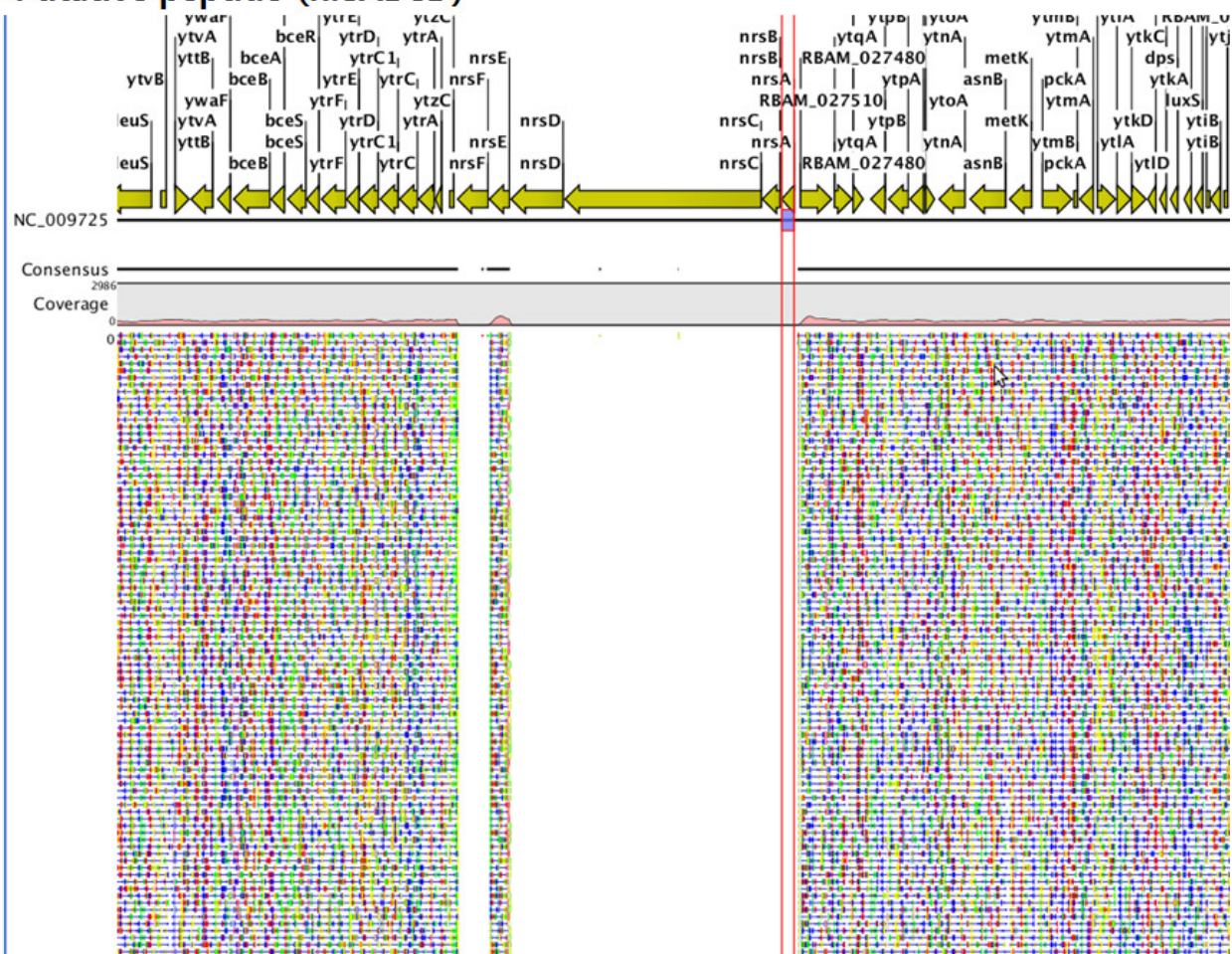


### 3. Fengycin

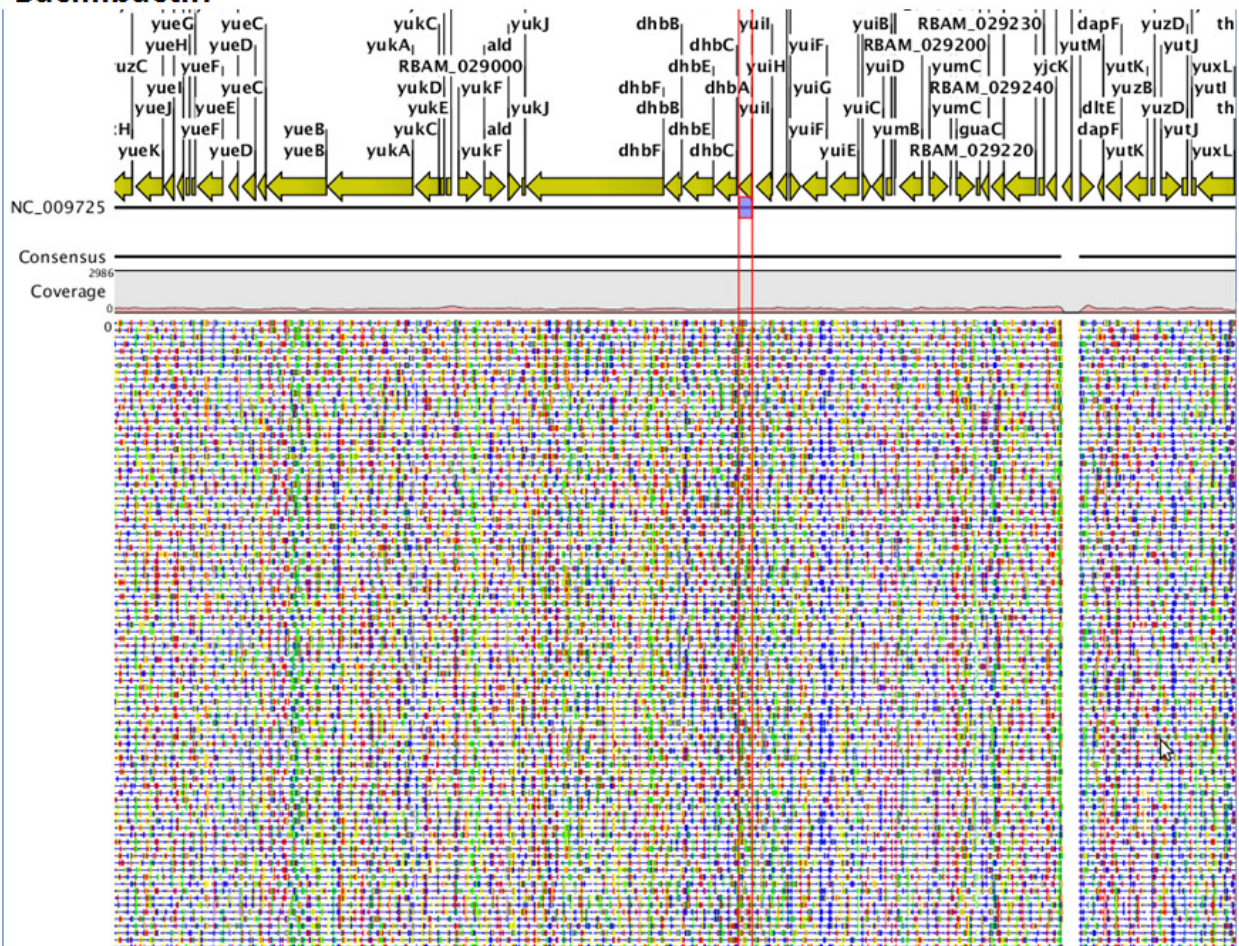




#### 4. Putative peptide (nrsABCD)

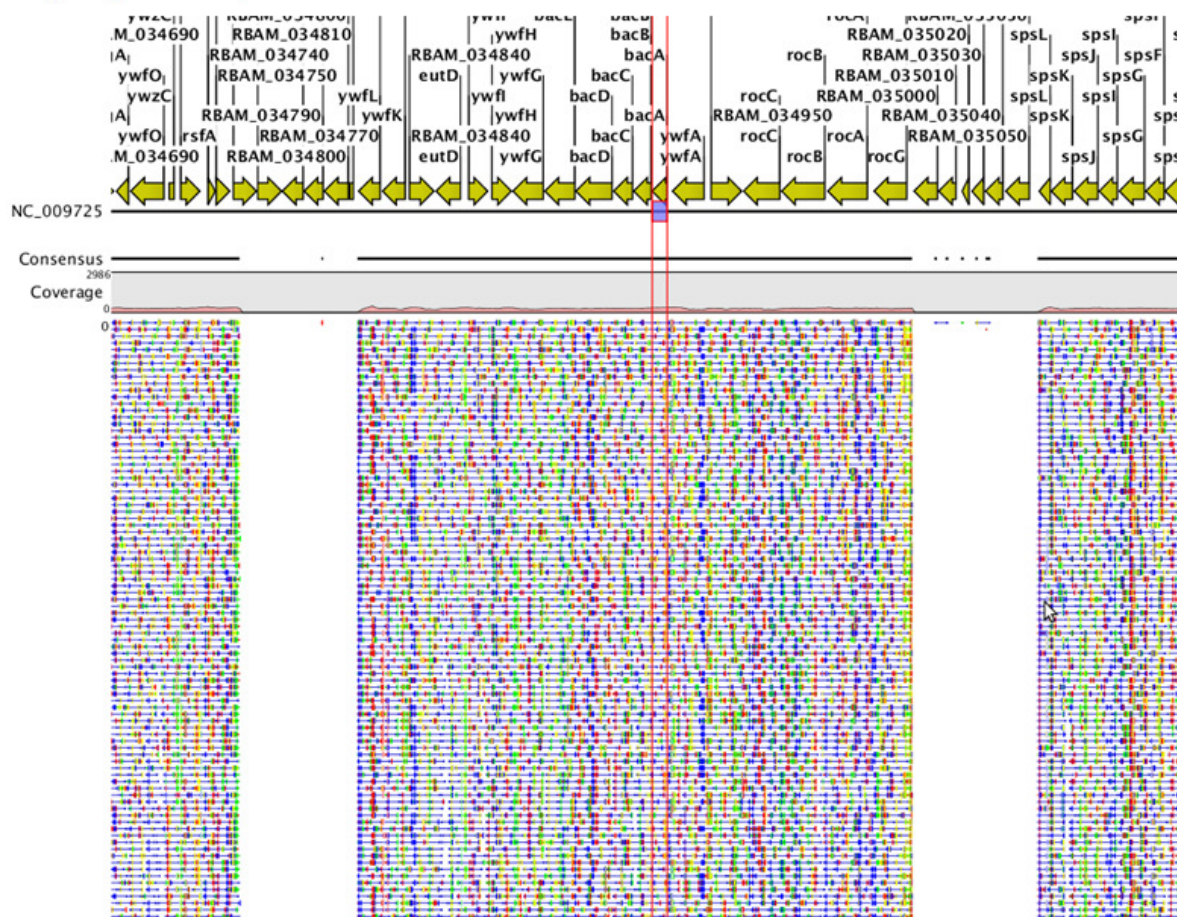


## 5. Bacillibactin

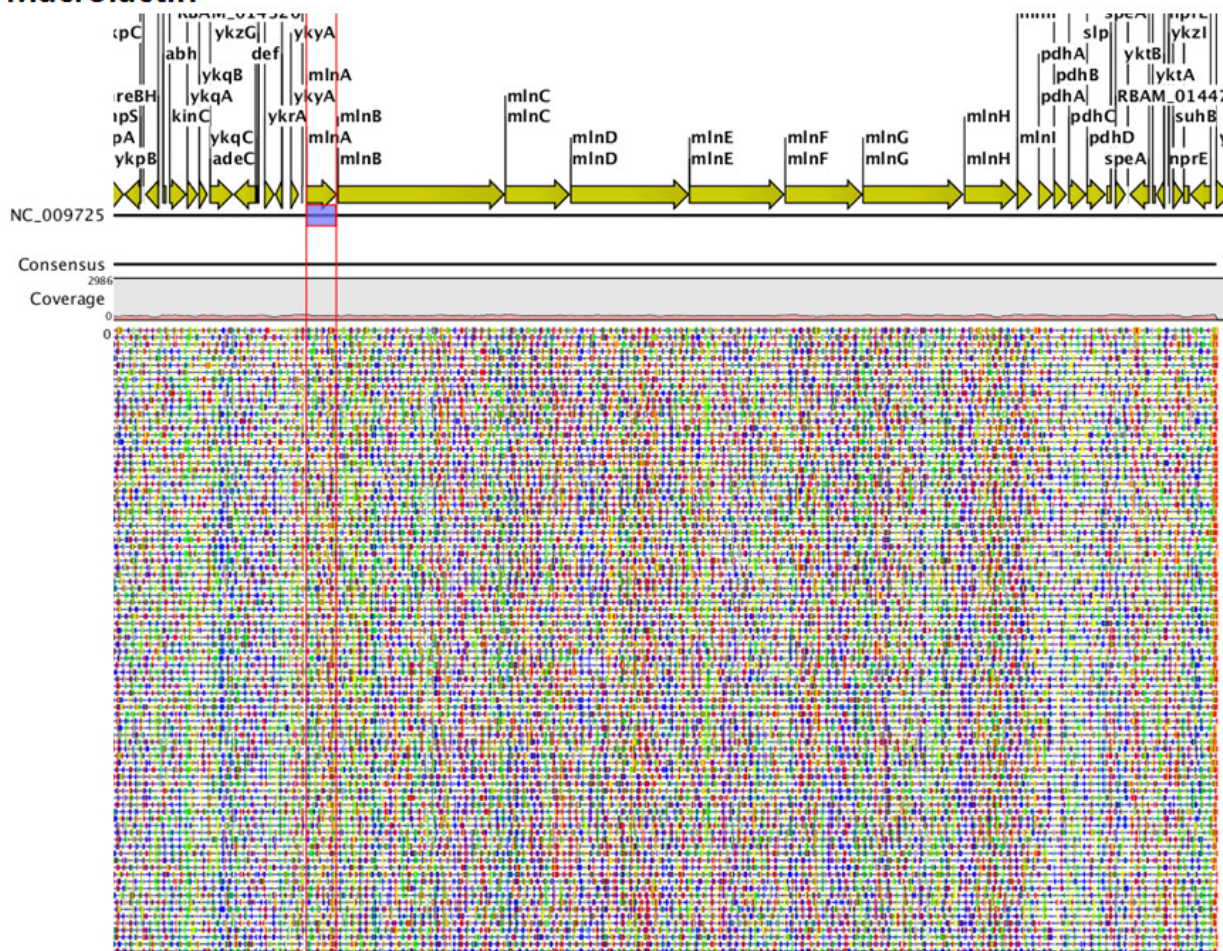




## 6. Bacilysin/anticapsin

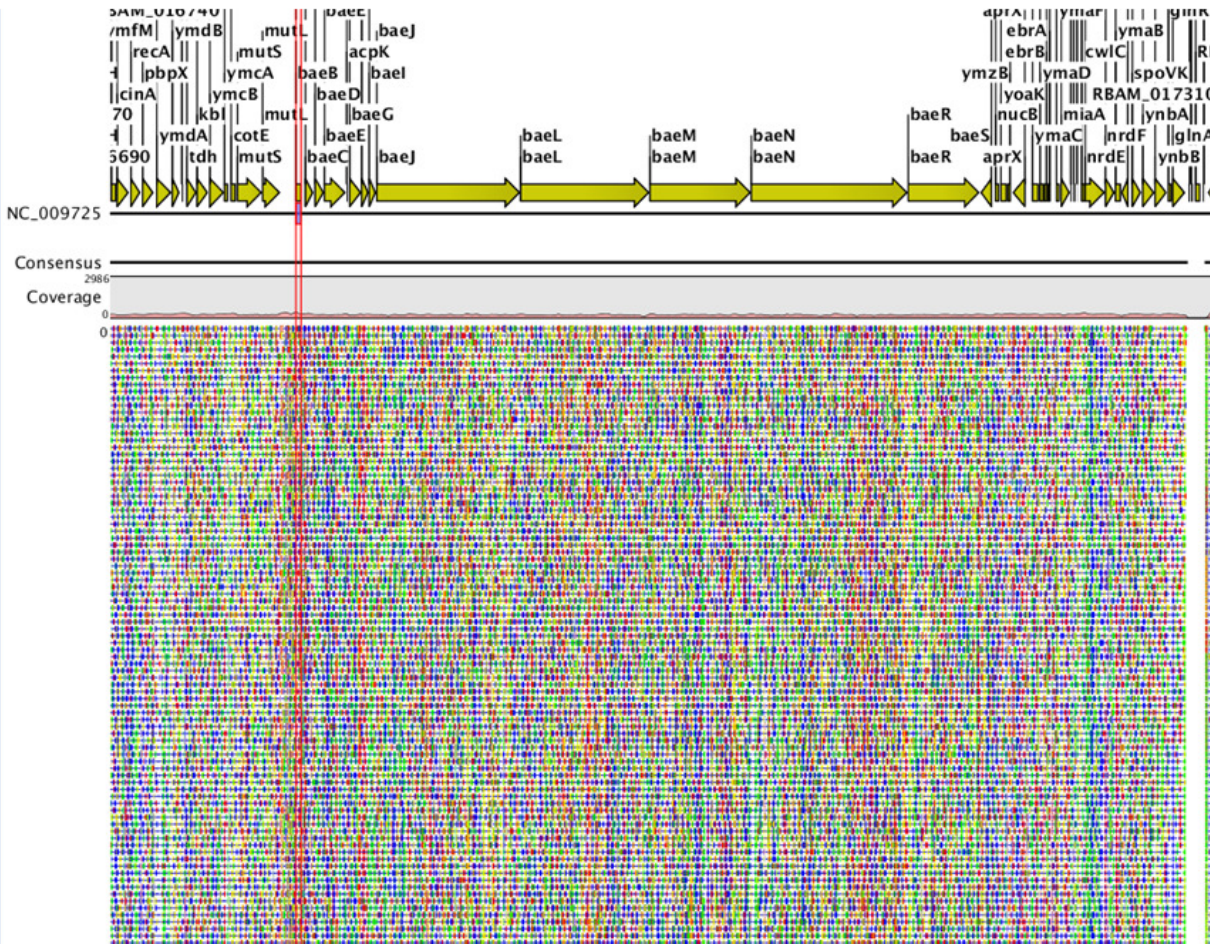


## 7. Macrolactin

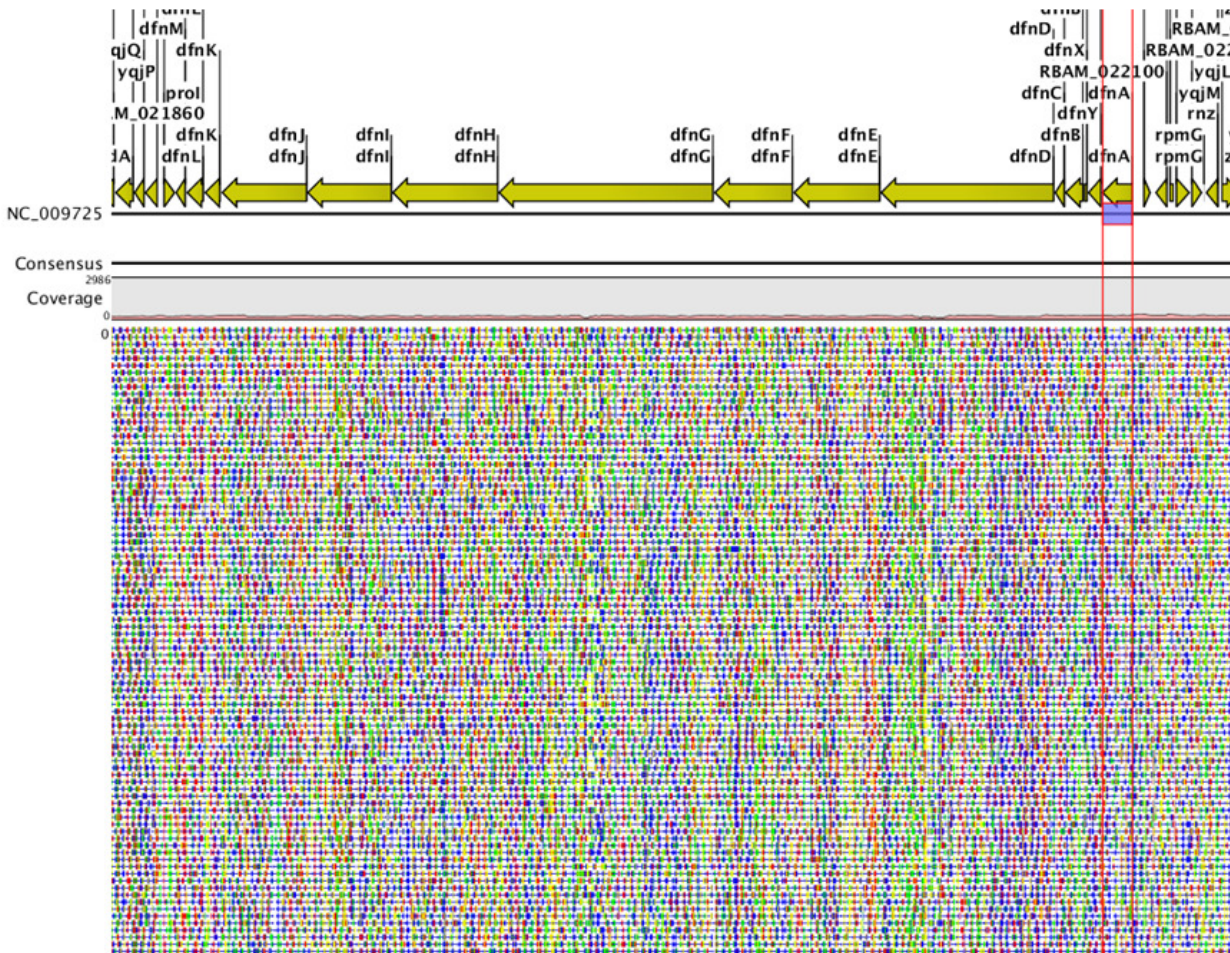




## 8. Bacillaene



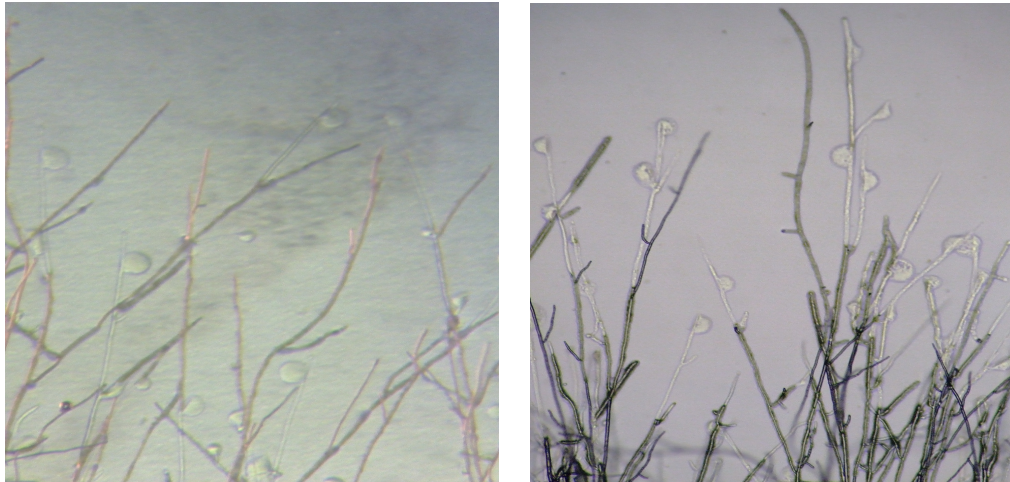
## 9. Difficidin





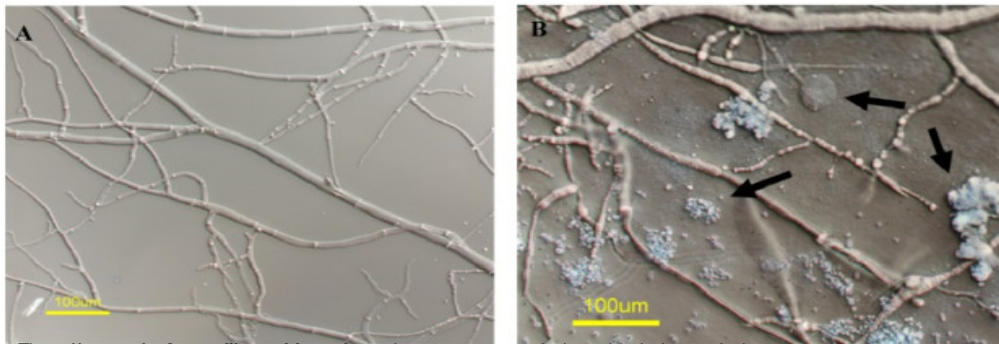
# ZENOTAN<sup>®</sup> 작용기작

[*Bacillus subtilis* KBC 1010]

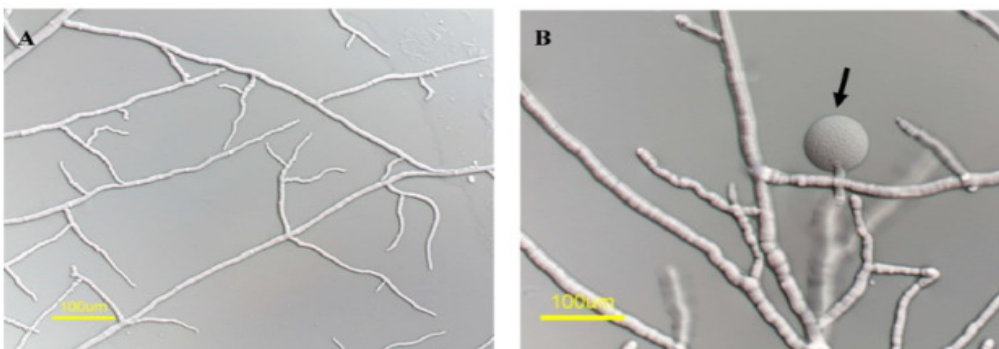


Fungal hyphae tip bursting

## 참고자료



The effects of *Aspergillus tubingenis* crude extract amended on hyphal morphology  
Wild type cultured on (A) non-amended and (B) extract-amended (2 mg/mL) media, respectively. Arrows mark hyphal tip swelling, foci of cytoplasmic leakage and amorphous extracellular material.



$\Delta mas-1$  cultured on (A) non-amended and (B) extract-amended (2 mg/mL) media. Arrow marks hyphal tip swelling. (Koch L, et. al Mal. Drugs 2014)