

7.003 Spring 2022

Day 23 Binder Gene Sequences

As outlined in the Part 5.6 experimental workflow (pg 132 – 135 in the lab manual), you have sequenced the binder variant gene from seven different miniprep plasmids (i.e. independent clones each isolated from a separate transformed bacteria colony). The DNA sequence result for these seven binder genes (Binders 1 – 7), as well as the wild-type ("WT") binder gene, are provided below.

WT scaffold gene sequence:

GCGACCGTGAAATTACCTATCAGGGCGAAGAAAAACAGGTGGATATTAGAAAATTAAAAAGTGT
GGCGCGTGGCCAGATGATTGACTTTACCTATGATGAAGGCAGCGCGACCGGCCGCGCG
GTGAGCGAAAAAGATGCGCCGAAAGAACTGCTGCAGATGCTGGAAAAACAGAAAAAA

Binder 1 gene sequence:

GCGACCGTGAAATTACCTATCAGGGCGAAGAAAAACAGGTGGATATTAGAAAATTAAAATCGTGG
CACCGCGATGGCCAGTGGATTGACTTTGCATATGATGAAGGCAGCGCGACCGGCCGCG
TGAGCGAAAAAGATGCGCCGAAAGAACTGCTGCAGATGCTGGAAAAACAGAAAAAA

Binder 2 gene sequence:

GCGACCGTGAAATTACCTATCAGGGCGAAGAAAAACAGGTGGATATTAGAAAATTAAAATCGTGG
CACCGCGATGGCCAGTGGATTGACTTTGCATATGATGAAGGCAGCGCGACCGGCCGCG
TGAGCGAAAAAGATGCGCCGAAAGAACTGCTGCAGATGCTGGAAAAACAGAAAAAA

Binder 3 gene sequence:

GCGACCGTGAAATTACCTATCAGGGCGAAGAAAAACAGGTGGATATTAGAAAATTAAAATCGTGG
CACCGCGATGGCCAGTGGATTGACTTTGCATATGATGAAGGCAGCGCGACCGGCCGCG
TGAGCGAAAAAGATGCGCCGAAAGAACTGCTGCAGATGCTGGAAAAACAGAAAAAA

Binder 4 gene sequence:

GCGACCGTGAAATTACCTATCAGGGCGAAGAAAAACAGGTGGATATTAGAAAATTAAAATCGTGG
CACCGCGATGGCCAGTGGATTGACTTTGCATATGATGAAGGCAGCGCGACCGGCCGCG
TGAGCGAAAAAGATGCGCCGAAAGAACTGCTGCAGATGCTGGAAAAACAGAAAAAA

Binder 5 gene sequence:

GCGACCGTGAAATTACCTATCAGGGCGAAGAAAAACAGGTGGATATTAGAAAATTAAAATCGTGG
CACCGCGATGGCCAGTGGATTGACTTTGCATATGATGAAGGCAGCGCGACCGGCCGCG
TGAGCGAAAAAGATGCGCCGAAAGAACTGCTGCAGATGCTGGAAAAACAGAAAAAA

Binder 6 gene sequence:

GCGACCGTGAAATTACCTATCAGGGCGAAGAAAAACAGGTGGATATTAGAAAATTAAAATCGTGG
CACCGCGATGGCCAGTGGATTGACTTTGCATATGATGAAGGCAGCGCGACCGGCCGCG
TGAGCGAAAAAGATGCGCCGAAAGAACTGCTGCAGATGCTGGAAAAACAGAAAAAA

Binder 7 gene sequence:

GCGACCGTGAAATTACCTATCAGGGCGAAGAAAAACAGGTGGATATTAGAAAATTAAAATCGTGG
CACCGCGATGGCCAGTACATTGACTTTAAATATGATGAAGGCAGCGCGACCGGCCGCG
TGAGCGAAAAAGATGCGCCGAAAGAACTGCTGCAGATGCTGGAAAAACAGAAAAAA

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