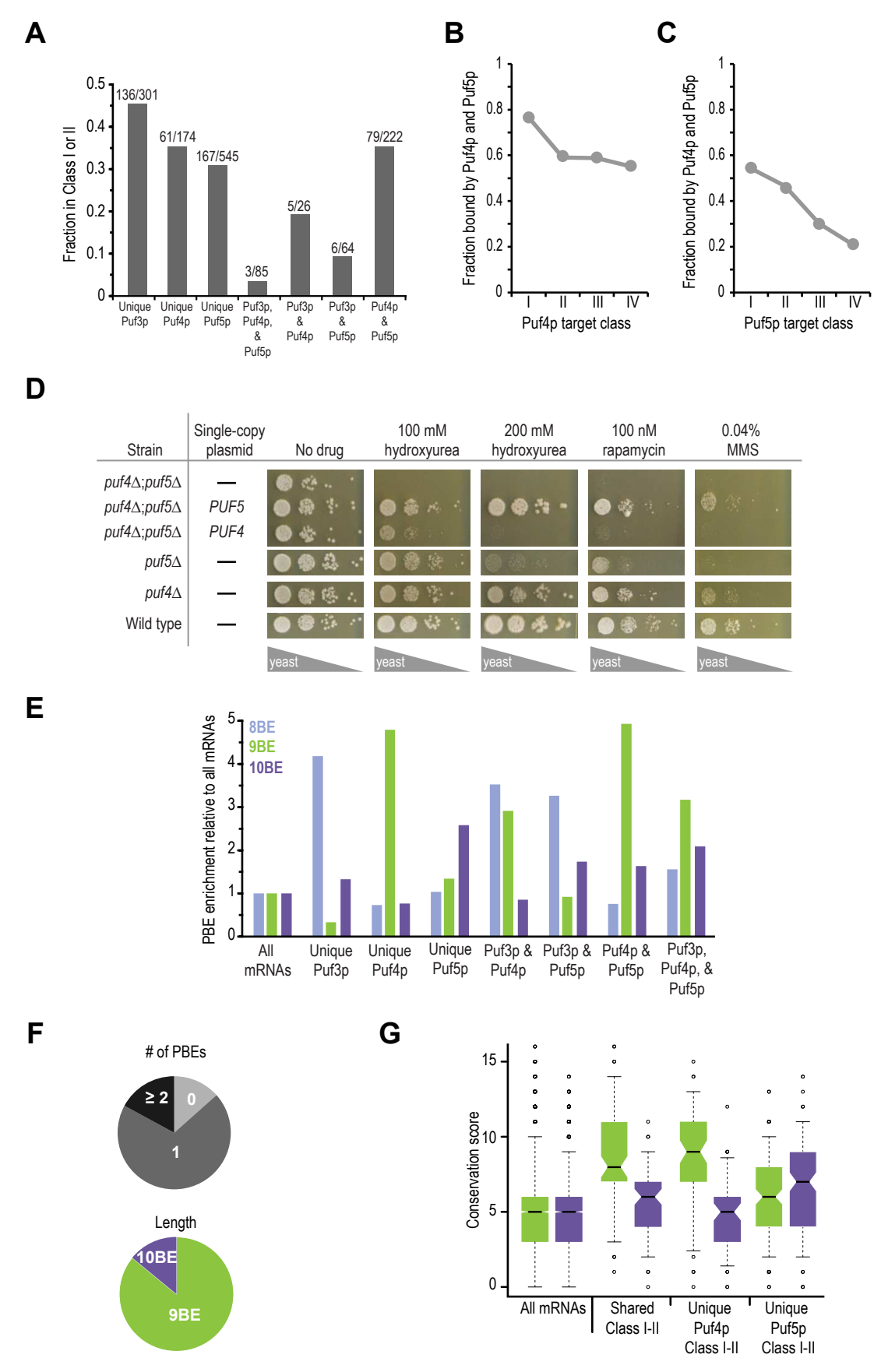
A
Fraction in Class I or II
0.5
0.4
0.3
0.2
0.1
0
136/301
61/174
167/545
3/85
5/26
6/64
79/222
Unique Puf3p
Unique Puf4p
Unique Puf5p
Puf3p, Puf4p, & Puf5p
Puf3p & Puf4p
Puf3p & Puf5p
Puf4p & Puf5p
B
Fraction bound by Puf4p and Puf5p
1
0.8
0.6
0.4
0.2
0
I
II
III
IV
Puf4p target class
C
Fraction bound by Puf4p and Puf5p
1
0.8
0.6
0.4
0.2
0
I
II
III
IV
Puf5p target class
D
Strain
Single-copy plasmid
No drug
100 mM hydroxyurea
200 mM hydroxyurea
100 nM rapamycin
0.04% MMS
puf4Δ;puf5Δ
puf4Δ;puf5Δ
puf4Δ;puf5Δ
puf5Δ
puf4Δ
Wild type
—
PUF5
PUF4
—
—
—
yeast
yeast
yeast
yeast
yeast
E
PBE enrichment relative to all mRNAs
5
4
3
2
1
0
8BE
9BE
10BE
All mRNAs
Unique Puf3p
Unique Puf4p
Unique Puf5p
Puf3p & Puf4p
Puf3p & Puf5p
Puf4p & Puf5p
Puf3p, Puf4p, & Puf5p
F
# of PBEs
≥ 2
0
1
Length
10BE
9BE
G
Conservation score
15
10
5
0
All mRNAs
Shared Class I-II
Unique Puf4p Class I-II
Unique Puf5p Class I-II