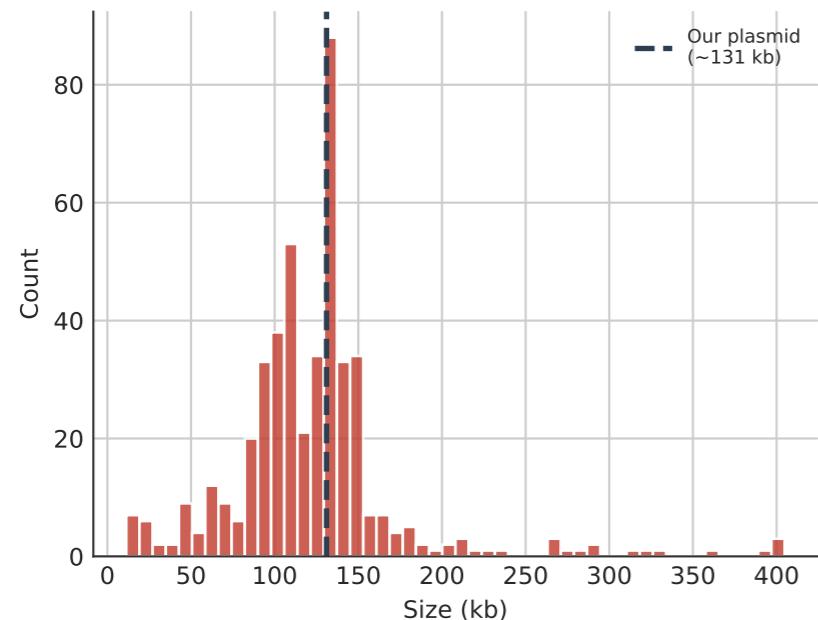


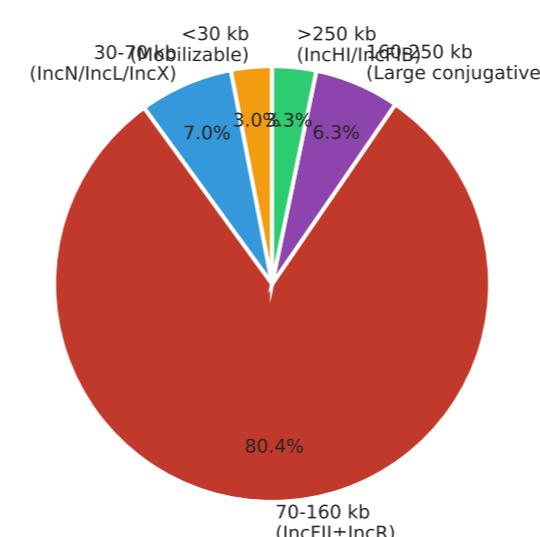
Cassette-Carrier Plasmid Association Analysis

Tn4401-like *blaKPC-2* Cassette (n = 460 plasmid-borne hits)

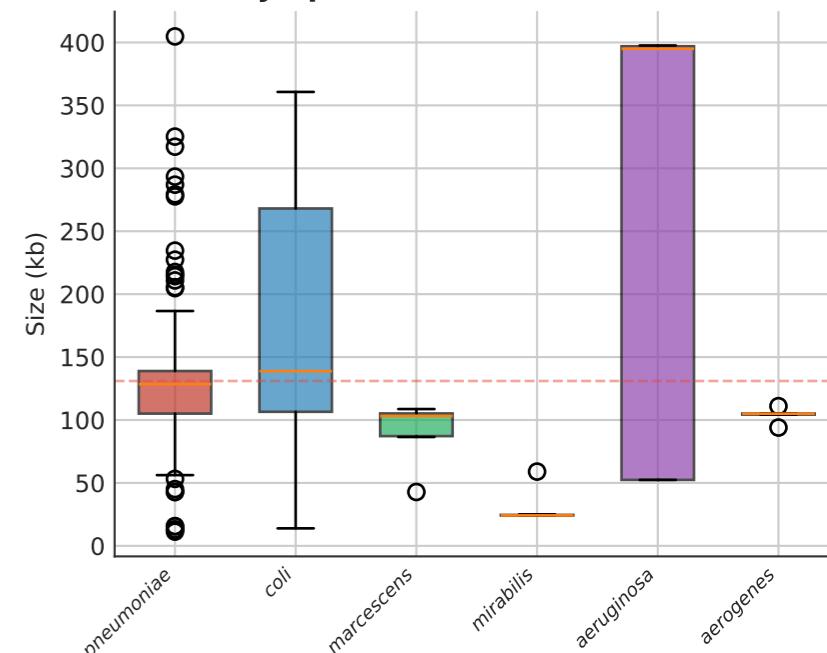
A. Plasmid Size Distribution



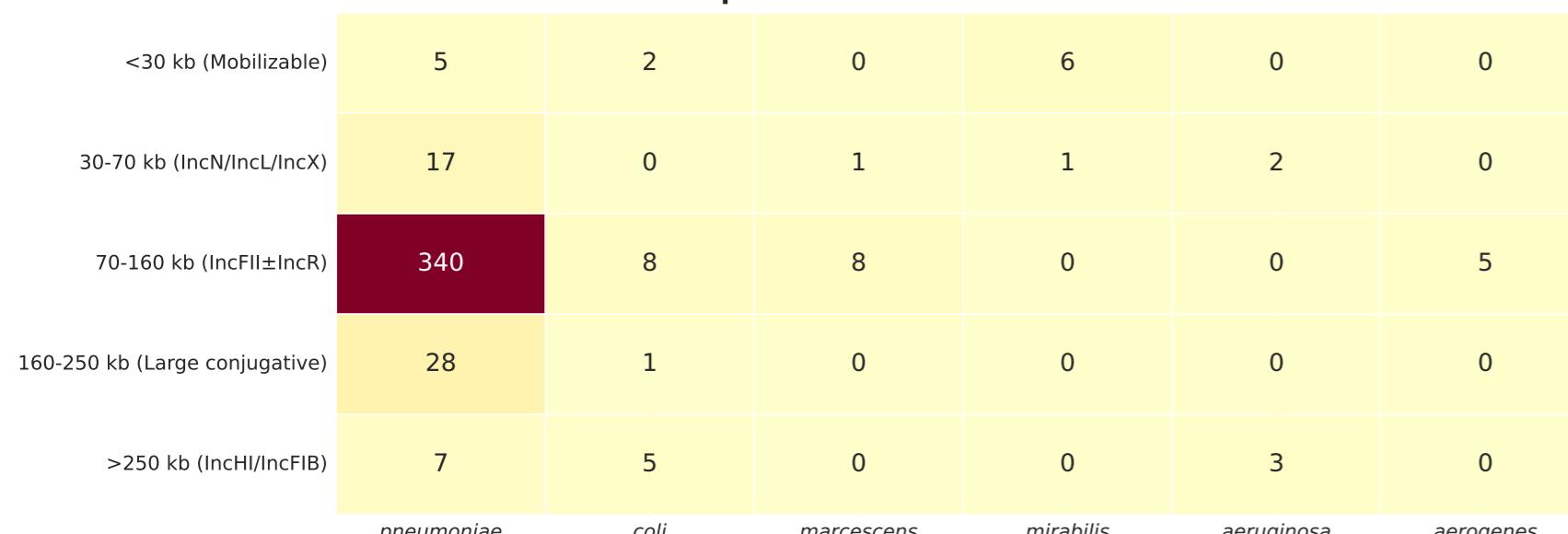
B. Size Class Distribution



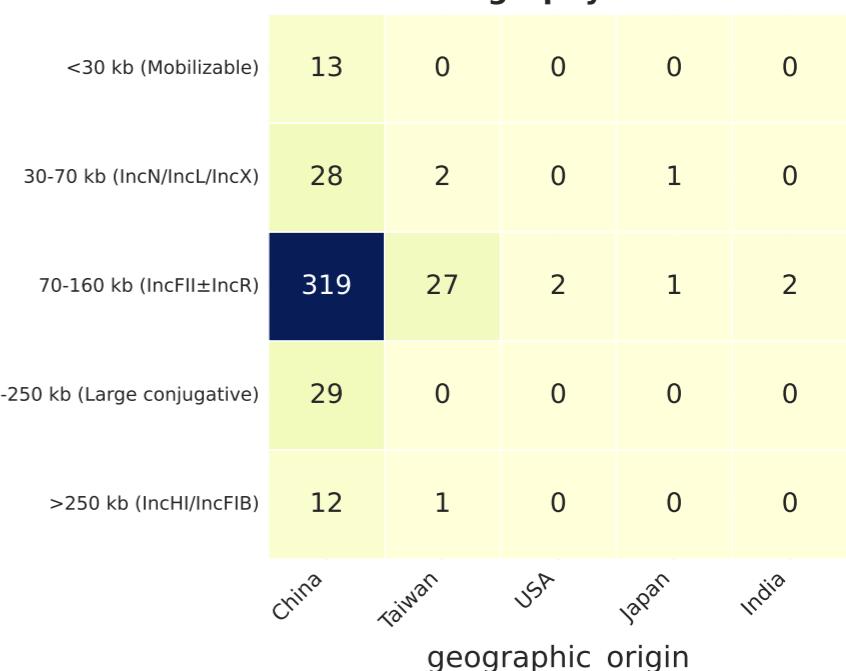
C. Size by Species



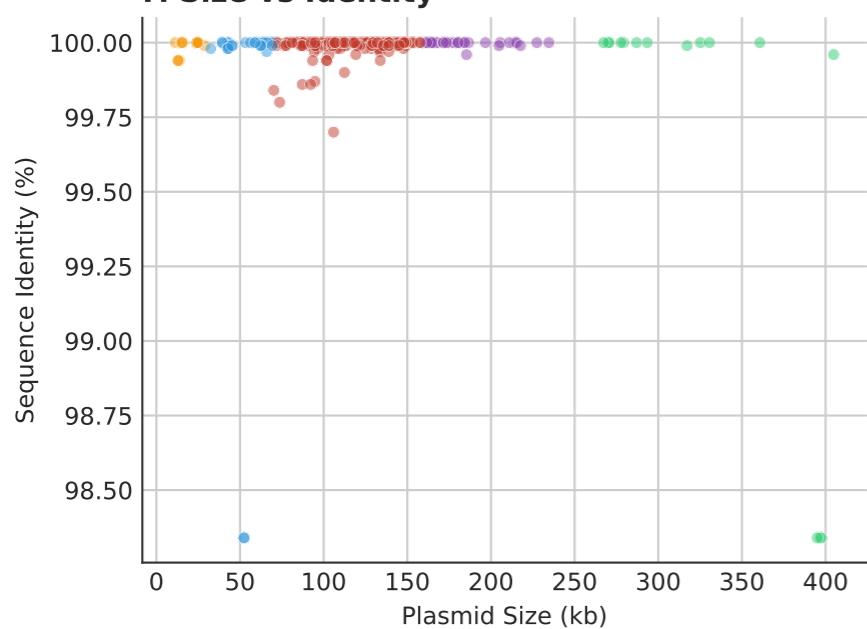
D. Plasmid Size Class x Species



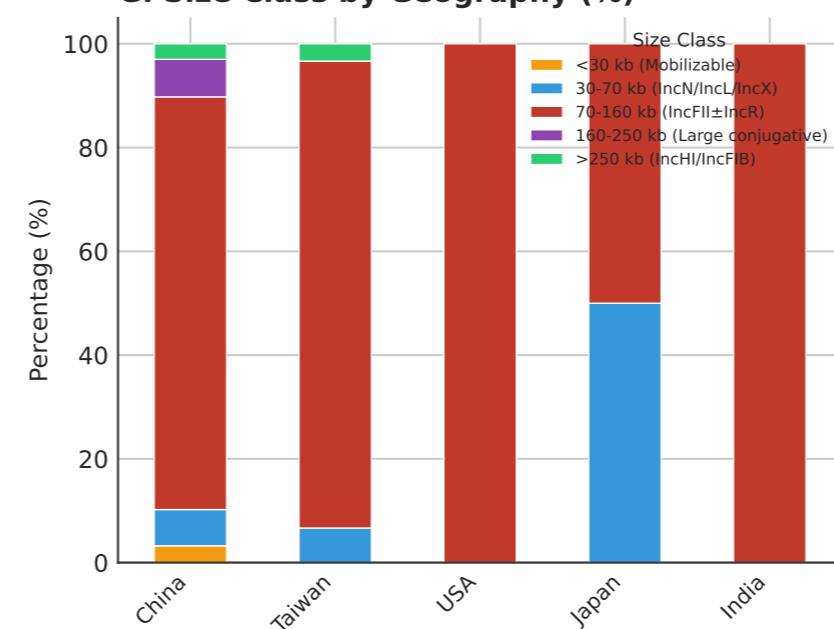
E. Size x Geography



F. Size vs Identity



G. Size Class by Geography (%)



H. Summary Statistics

KEY FINDINGS	
Total plasmid carriers:	460
Dominant size class:	70-160 kb (IncFII±IncR): 370 (80.4%)
Similar to our ~131 kb plasmid:	120-140 kb range: 141 (30.7%)
K. pneumoniae in 70-160 kb:	340 (73.9% of all carriers)
Median size:	124.3 kb
IQR:	99.9-138.1 kb
Interpretation:	The Tn4401-like blaKPC-2 cassette is predominantly carried on ~100-140 kb IncFII(pHN7A8)±IncR plasmids, consistent with clonal spread of a conserved plasmid lineage.