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Table 11-1: The ϕ X174 gene products.

Protein	Function
A	Stage II and Stage III DNA replication.
A*	An unessential protein for viral propagation. It may play a role in the inhibition of host cell DNA replication and superinfection exclusion.
B	Internal scaffolding protein, required for procapsid morphogenesis and the assembly of early morphogenetic intermediates. 60 copies present in the procapsid.
C	Facilitates the switch from Stage II to Stage III DNA replication. Required for Stage III DNA synthesis.
D	External scaffolding protein, required for procapsid morphogenesis. 240 copies present in the procapsid.
E	Host cell lysis.
F	Major coat protein. 60 copies present in the virion and procapsid.
G	Major spike protein. 60 copies present in the virion and procapsid.
H	DNA pilot protein need for DNA injection, also called the minor spike protein. 12 copies in the procapsid and virion.
J	DNA binding protein, needed for DNA packaging, 60 copies present in the virion.
K	An unessential protein for viral propagation. It may play a role optimizing burst sizes in various hosts.
