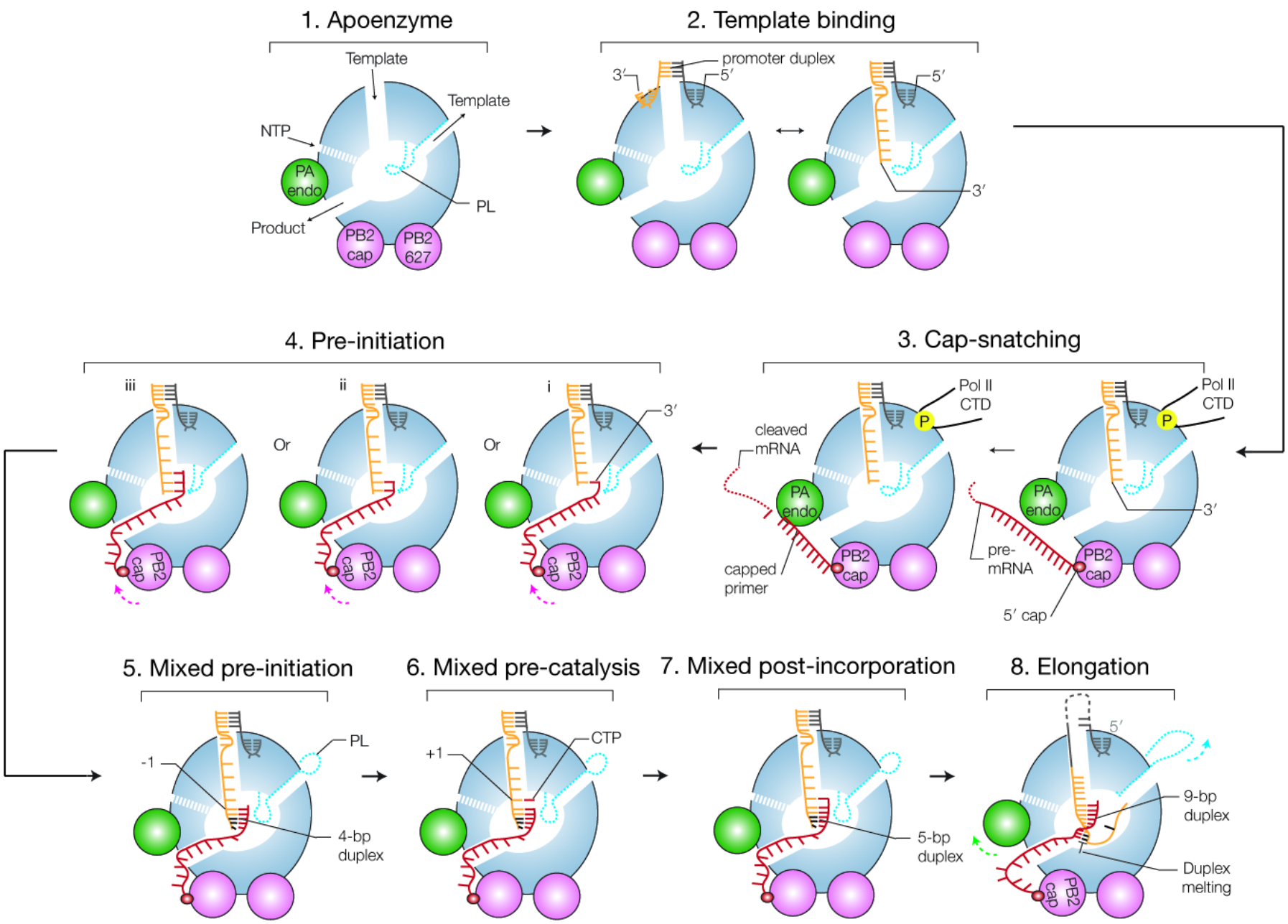
1. Apoenzyme
Template
Template
NTP
PA endo
PL
Product
PB2 cap
PB2 627
2. Template binding
promoter duplex
3′
5′
5′
3′
3. Cap-snatching
Pol II CTD
Pol II CTD
P
P
cleaved mRNA
PA endo
PA endo
3′
capped primer
PB2 cap
pre-mRNA
PB2 cap
5′ cap
4. Pre-initiation
iii
ii
i
Or
Or
3′
PB2 cap
PB2 cap
PB2 cap
5. Mixed pre-initiation
-1
PL
4-bp duplex
6. Mixed pre-catalysis
+1
CTP
7. Mixed post-incorporation
5-bp duplex
8. Elongation
5′
9-bp duplex
Duplex melting
PB2 cap