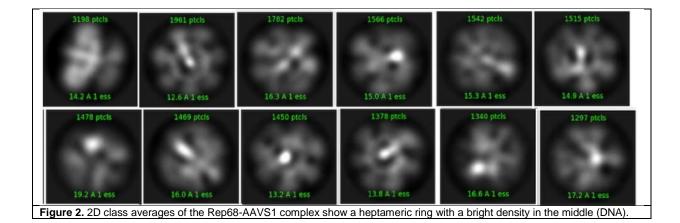


Figure 1. Proposed mechanism of initial steps leading to site-specific integration. An initial binding of Rep molecules are recruited to RBS DNA. For simplicity the number of molecules was limited to 3 in the cartoon. ATP hydrolysis leads to DNA melting and formation of trs hairpin (red). Residue Y156 nicks the trs site generating a free 3'-OH end and remains covalently attached to the DNA 5'-end.



90.

Figure 3 – C7 initial model of Rep68-AAVS1 complex