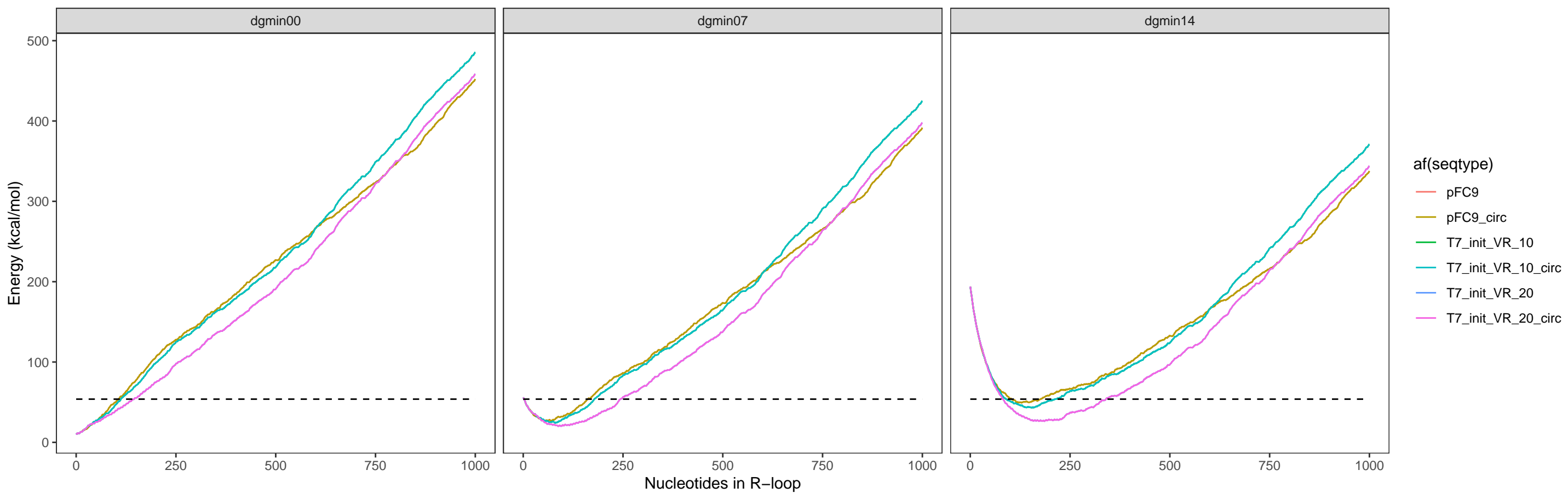
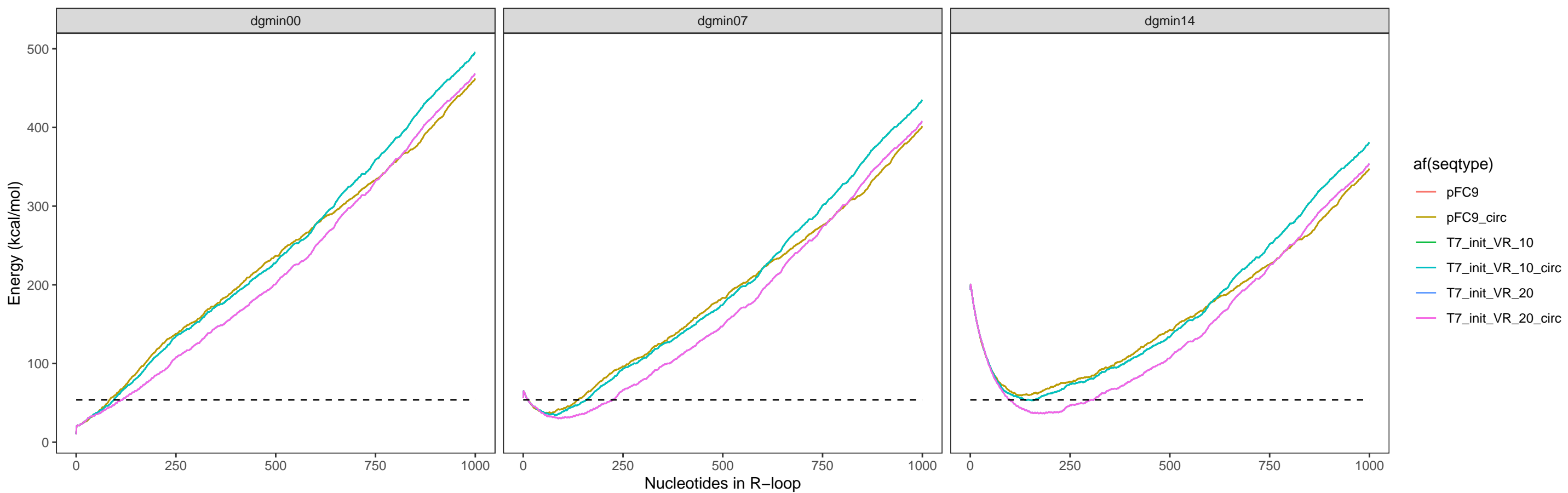


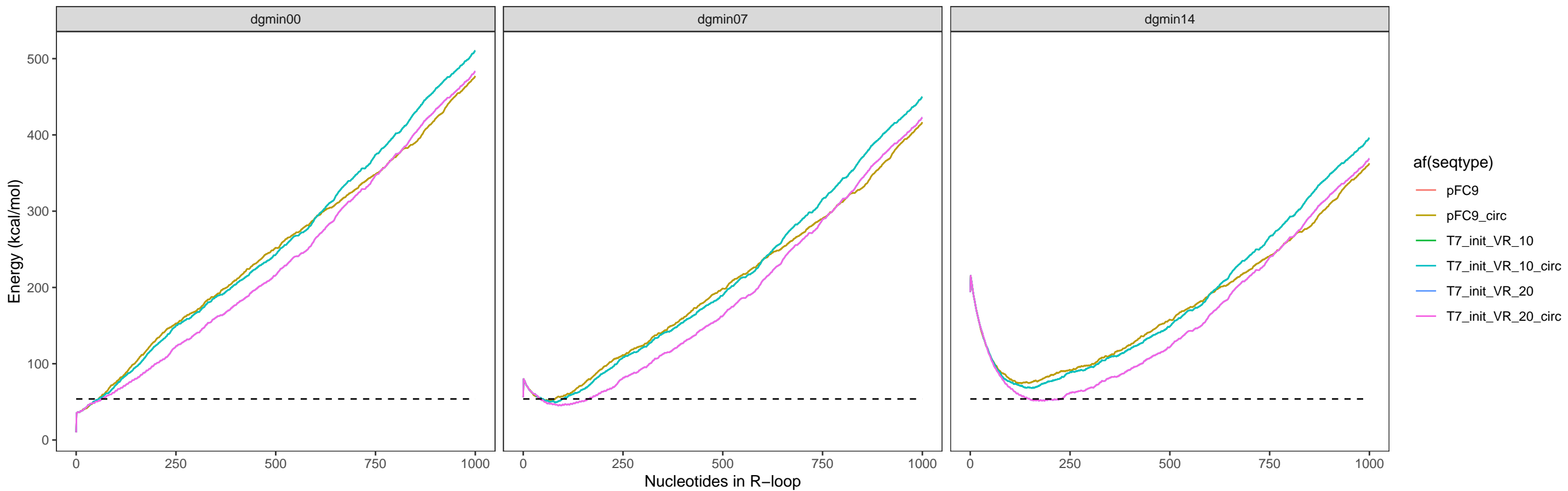
Energy of R-loop length at  $n = 600$  juncE (a)= 0



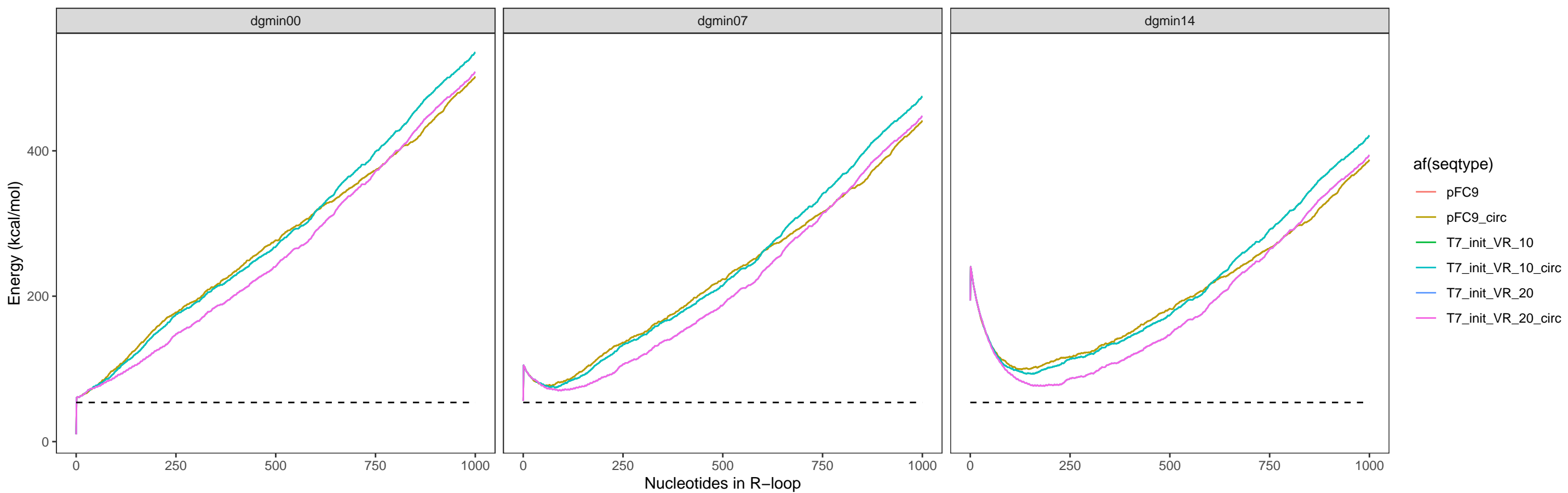
Energy of R-loop length at  $n = 600$  juncE (a)= 10



Energy of R-loop length at n = 600 juncE (a)= 25



Energy of R-loop length at n = 600 juncE (a)= 50



Energy of R-loop length at n = 600 juncE (a)= 100

