Observed structural divergence patterns

Example family: M−CSA ID = 2

(a) Divergence profile

RMSD ratio (Q90/Q10) = 2.5 / 0.4 = 6.6

(b) Flexibility trend

$\rho = 0.63$, $p < 0.001$

(c) Distance trend

$\rho = 0.60$, $p < 0.001$
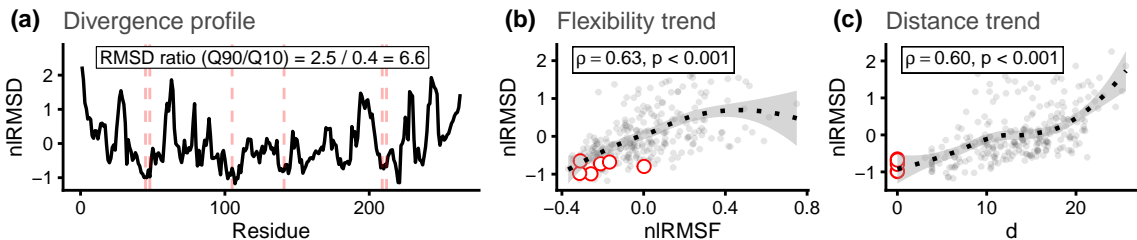
Aggregate results across all families

(d) Divergence variation

$\mu = 7.74 \pm 2.48$

(e) Flexibility correlation

$\mu = 0.63 \pm 0.11$

(f) Distance correlation

$\mu = 0.47 \pm 0.20$