

Human Telomeres & Telomerase PCR Array

Telomere Maintenance: ACD, BLM, DCLRE1C, DKC1, ERCC1, ERCC4, HSPA1L, MRE11A, MYC, NBN (NBS1), PARP1 (ADPRT1), PIF1, POT1, PRKDC, PTGES3, RAD50, RFC1, RTEL1, SMG6, TEP1, TERF1, TERF2, TERF2IP, TERT, TINF2, TNKS (TIN1), TNKS2, XRCC5, XRCC6 (G22P1).

Telomere-Associated Complexes:

Shelterin: ACD, POT1, RAP1A, TERF1, TERF2, TINF2.

Telomerase: DKC1, GAR1, NHP2, NOP10, TERT, WRAP53.

SLX4: SLX4, ERCC1, ERCC4, EME1, MSH2, MSH3, MUS81, PLK1, TERF2, TERF2IP.

Telomere Regulation:

Regulation of Telomere Length: RTEL1, TEP1, TERF1, TERF2IP, TNKS (TIN1).

Shelterin Complex Regulation: DCLRE1B, KRIT1, RASSF1, RAPGEF1, TPP1.

Telomerase Regulation: ABL1, AKT1, ATP5C1, BCL2, EGF, IGF1, KRAS, MEN1, MYC, PAX8, PINX1, PPARG, PPP2R1A, PPP2R1B, PRKCA, PRKCB, RB1, SART1, SMAD3, SP1, SSB, TGFB1, TP53.

Other Genes Associated with Telomeres: ATM, CDK2, CHEK1, CHEK2 (RAD53), HAT1, HNRNPA2B1, HNRNPD, HSP90AA1, NCL, OBFC1, PURA, RAD17, RIF1, SIRT2, SIRT6, TP53BP1, SUN1.