

Channel-layout plans

QX200 (2 channels: FAM / HEX)

Well 1 (DNA)

- FAM: G12C + G12D mut (amplitude-mux)
- HEX: KRAS codon-12 WT

Well 2 (DNA)

- FAM: L858R mut
- HEX: EGFR ex21 WT

Well 3 (DNA)

- FAM: T790M mut
- HEX: EGFR ex20 WT

Well 4 (DNA)

- FAM: V600E mut
- HEX: BRAF ex15 WT

Well 5 (RNA->cDNA)

- FAM: E13;A20 junction
- HEX: single-copy reference gene

5 wells (4 DNA + 1 RNA)

QX600 (6 channels) -- recommended 2-well split

Well A (one-step RT-ddPCR)

- Cy5 BRAF V600E
- FAM EML4-ALK v1
- Cy5.5 KRAS G12C
- ROX KRAS G12D

Well B (DNA)

- HEX EGFR L858R
- ATTO590 EGFR T790M

no flagged cross-dimer pair co-resides; WT references by separate channel/amplitude