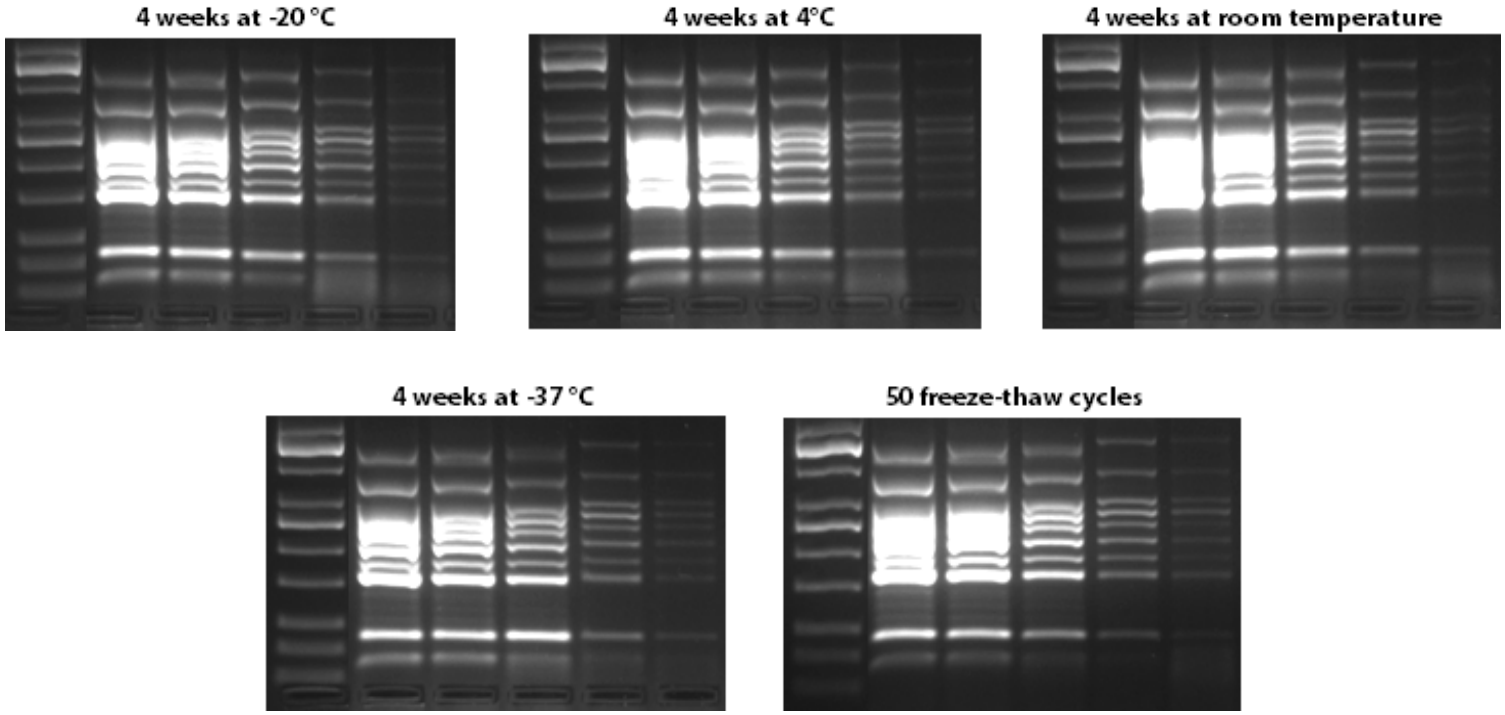
KAPABIOSYSTEMS

next generation thinking
in enzyme technology

End-Point PCR ReadyMix Stability Data

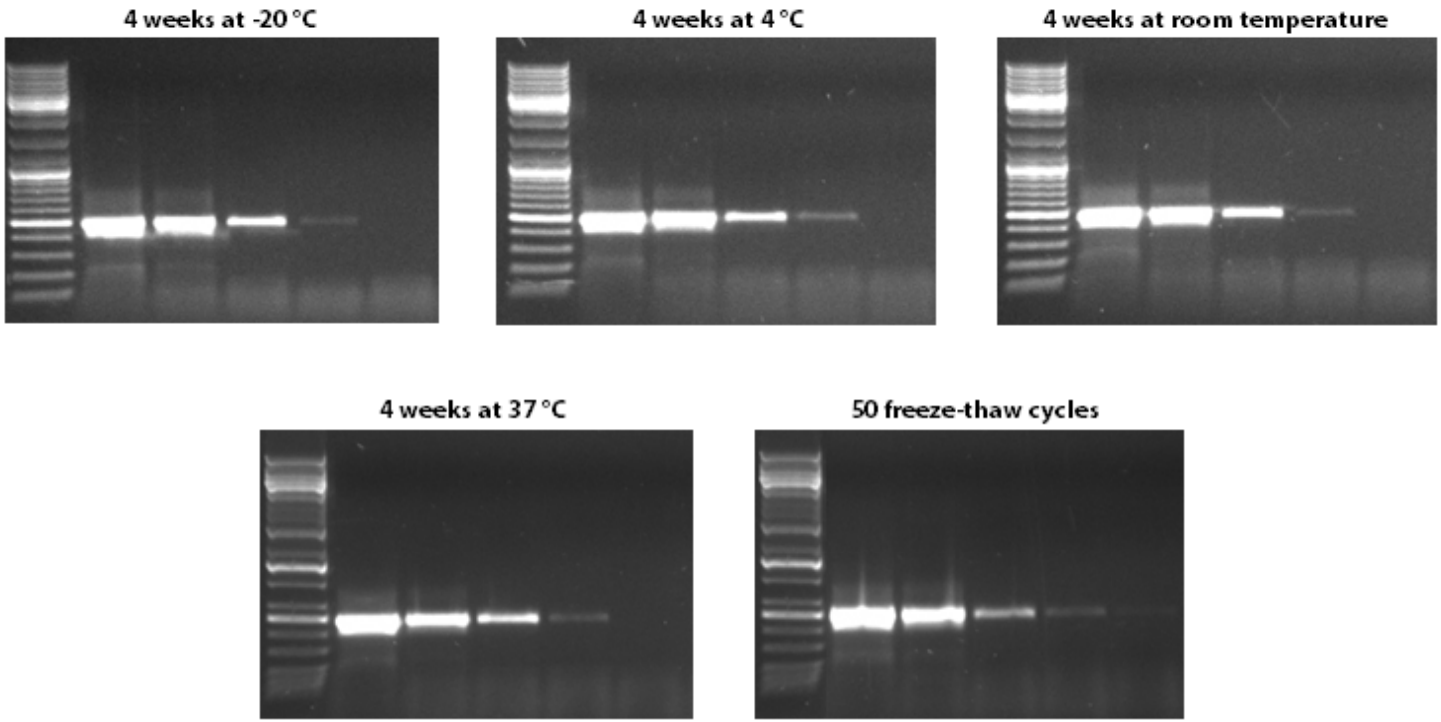
February 2013

KAPA2G Fast Multiplex Mix



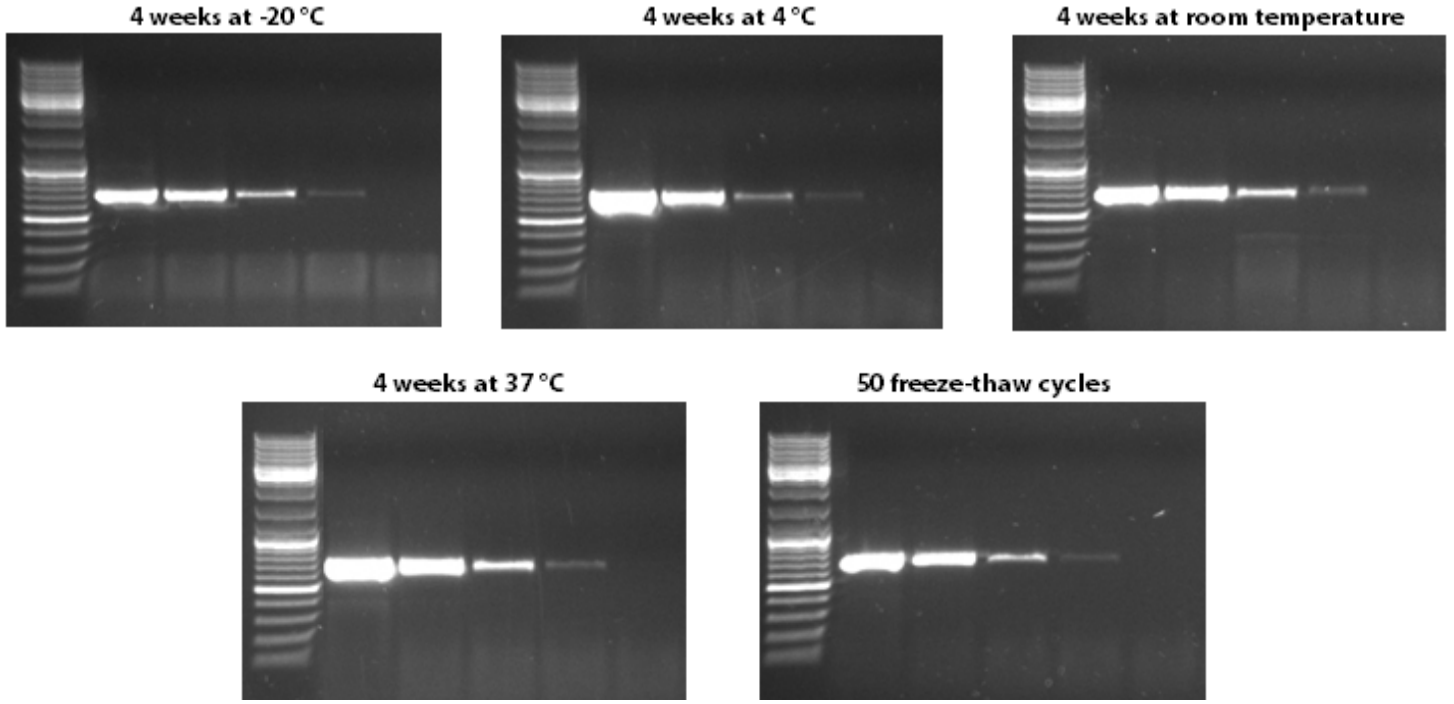
Reactions (25 µl) contained 1X KAPA2G Fast Multiplex Mix, stored as indicated above each panel, and 0.2 µM forward and reverse primers for 10 human amplicons ranging in size from 162 to 1007 bp, and in GC content from 30% to 53%. A 5-fold dilution series of human genomic DNA (100 ng to 160 pg per reaction) was used as template. Cycling was performed with a standard 3-step Multiplex PCR protocol, with 3 min initial denaturation at 95 ℃, and 30 cycles of denaturation at 95 ℃ (15 sec), annealing at 63 ℃ (30 sec) and extension at 72 ℃ (60 sec). Half of each reaction product was analysed in a 2% agarose-TBE gel.

KAPA2G Robust HotStart ReadyMix



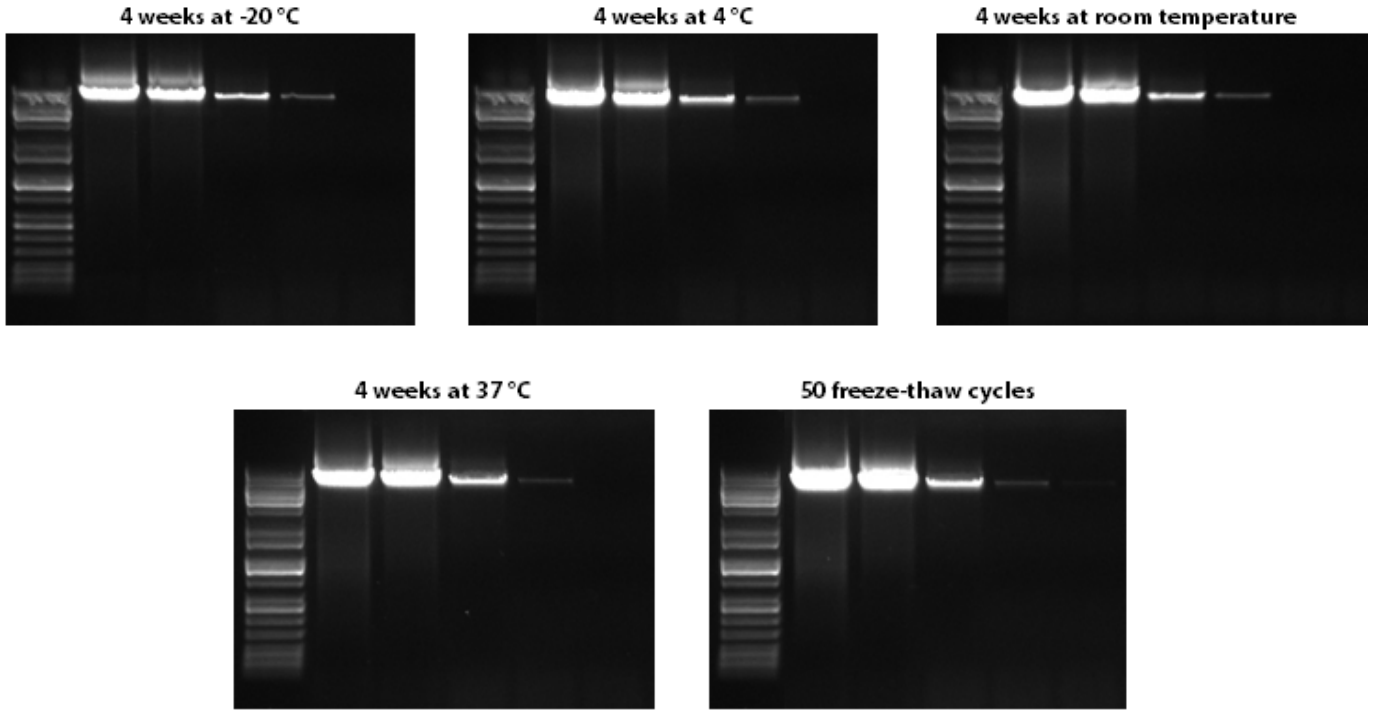
Reactions (25 µl) contained 1X KAPA2G Robust HotStart ReadyMix, stored as indicated above each panel, and 0.5 µM forward and reverse primers for a 451 bp, 70.5% GC human amplicon. A 10-fold dilution series of human genomic DNA (10 ng to 1 pg per reaction) was used as template. Cycling was performed with a standard 3-step protocol, with 3 min initial denaturation at 95 ℃, and 35 cycles of denaturation at 95 ℃ (15 sec), annealing at 60 ℃ (15 sec) and extension at 72 ℃ (15 sec). Half of each reaction product was analysed in a 1% agarose-TBE gel.

KAPA HiFi HotStart ReadyMix



Reactions (25 µl) contained 1X KAPA HiFi HotStart ReadyMix, stored as indicated above each panel, and 0.3 µM forward and reverse primers for a 635 bp, 71.7% GC human amplicon. A 10-fold dilution series of human genomic DNA (10 ng to 1 pg per reaction) was used as template. Cycling was performed with a standard 3-step protocol, with 3 min initial denaturation at 95 ℃, and 35 cycles of denaturation at 98 ℃ (20 sec), annealing at 65 ℃ (15 sec) and extension at 72 ℃ (15 sec). Half of each reaction product was analysed in a 1% agarose-TBE gel.

KAPA Taq EXtra HotStart ReadyMix with dye



Reactions (25 µl) contained 1X KAPA Taq EXtra HotStart ReadyMix with dye, stored as indicated above each panel, and 0.5 µM forward and reverse primers for a 6.6 kb, 60% GC human amplicon. DMSO was added to a final concentration of 5%. A 10-fold dilution series of human genomic DNA (50 ng to 5 pg per reaction) was used as template. Cycling was performed with a standard 2-step protocol, with 3 min initial denaturation at 95 ℃, and 35 cycles of denaturation at 95 ℃ (15 sec) and combined annealing/extension at 68 ℃ (7 min). Half of each reaction product was analysed in a 1% agarose-TBE gel.

KAPA ReadyMixes for end-point PCR are stable for:

- At least **2 years** at **-20 ℃**
- At least **6 months** at **4 ℃**
- At least **50 freeze-thaw** cycles (-80 to +25 ℃)
- At least **4 weeks** at **room temperature**
- At least **4 weeks** at **37 ℃**

Product	ReadyMixes available
KAPA2G Fast	KAPA2G Fast ReadyMix with dye KAPA2G Fast Genotyping Mix with dye KAPA2G Fast HotStart ReadyMix KAPA2G Fast HotStart ReadyMix with dye KAPA2G Fast HotStart Genotyping Mix with dye KAPA2G Fast Multiplex Mix
KAPA2G Robust	KAPA2G Robust HotStart ReadyMix KAPA2G Robust HotStart ReadyMix with dye
KAPA HiFi	KAPA HiFi HotStart ReadyMix KAPA HiFi HotStart Uracil+ ReadyMix
KAPA Taq EXtra	KAPA Taq EXtra HotStart ReadyMix with dye