**Figure S1. Detection of HA-tagged ARF6$^{Q67L}$ in $Braf^{CA}$;$Cdkn2a^{f/f}$ melanoma**. a) Anti-HA immunostain of FFPE sections of primary tumors with variable levels of detection of ARF6$^{Q67L}$-HA. The strongest staining was observed in tumors with the highest level of mRNA detected by qRT-PCR (b). Absent staining of FFPE tumors was observed in tumors with low (6456) and undetectable (6457) levels of mRNA by qRT-PCR of frozen tumors. Scale bars = 20μm, 400x magnification. Control = $Braf^{CA}$;$Cdkn2a^{f/f}$ (Cre-only injection). b) qRT-PCR of $Arf6$ $^{Q67L}$-HA from fresh, frozen primary tumor fragments. Bars represent the absolute difference in crossing threshold (Ct) between $Arf6^{Q67L}$-HA and $Gapdh$. The Ct threshold that de ines detection was established above the background signal for controls in both the $Braf^{CA}$;$Cdkn2a^{f/f}$ and the $Braf^{CA}$;$Cdkn2a^{f/f}$;$Pten^{f/f}$ cohorts (see Figures 1g and S3). With rare exception, positive tumors demonstrated $Arf6$ $^{Q67L}$-HA expression levels lower than $Gapdh$.