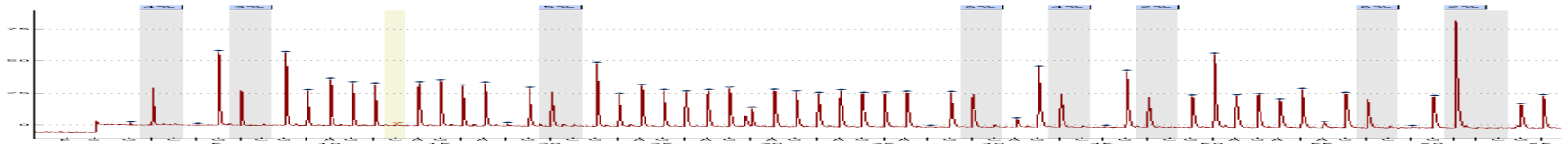
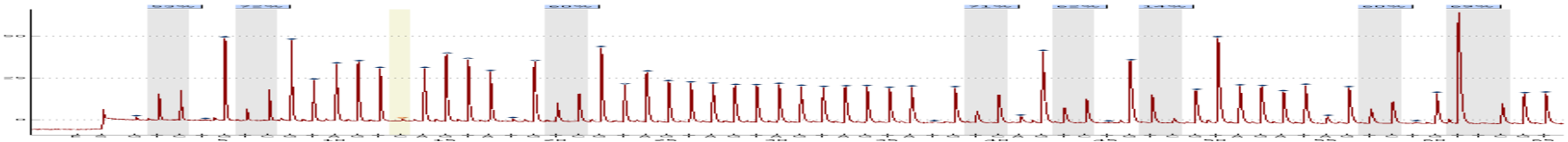


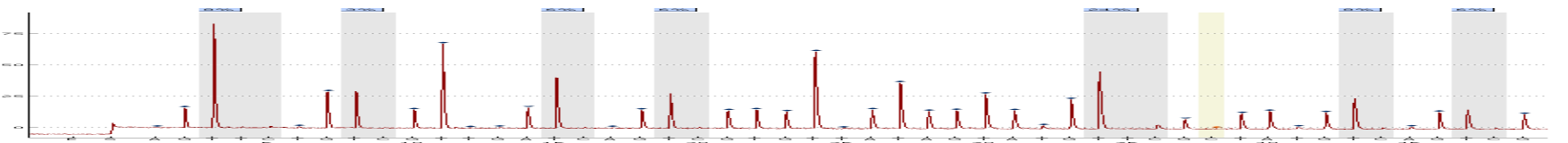
Leprel1 unmethylated clinical case



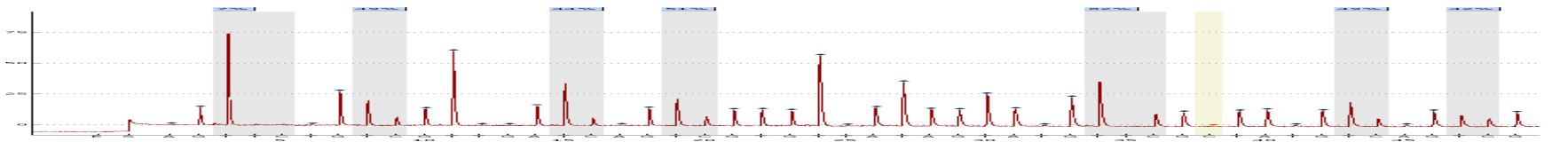
Leprel1 methylated clinical case



P4HA3 unmethylated clinical case

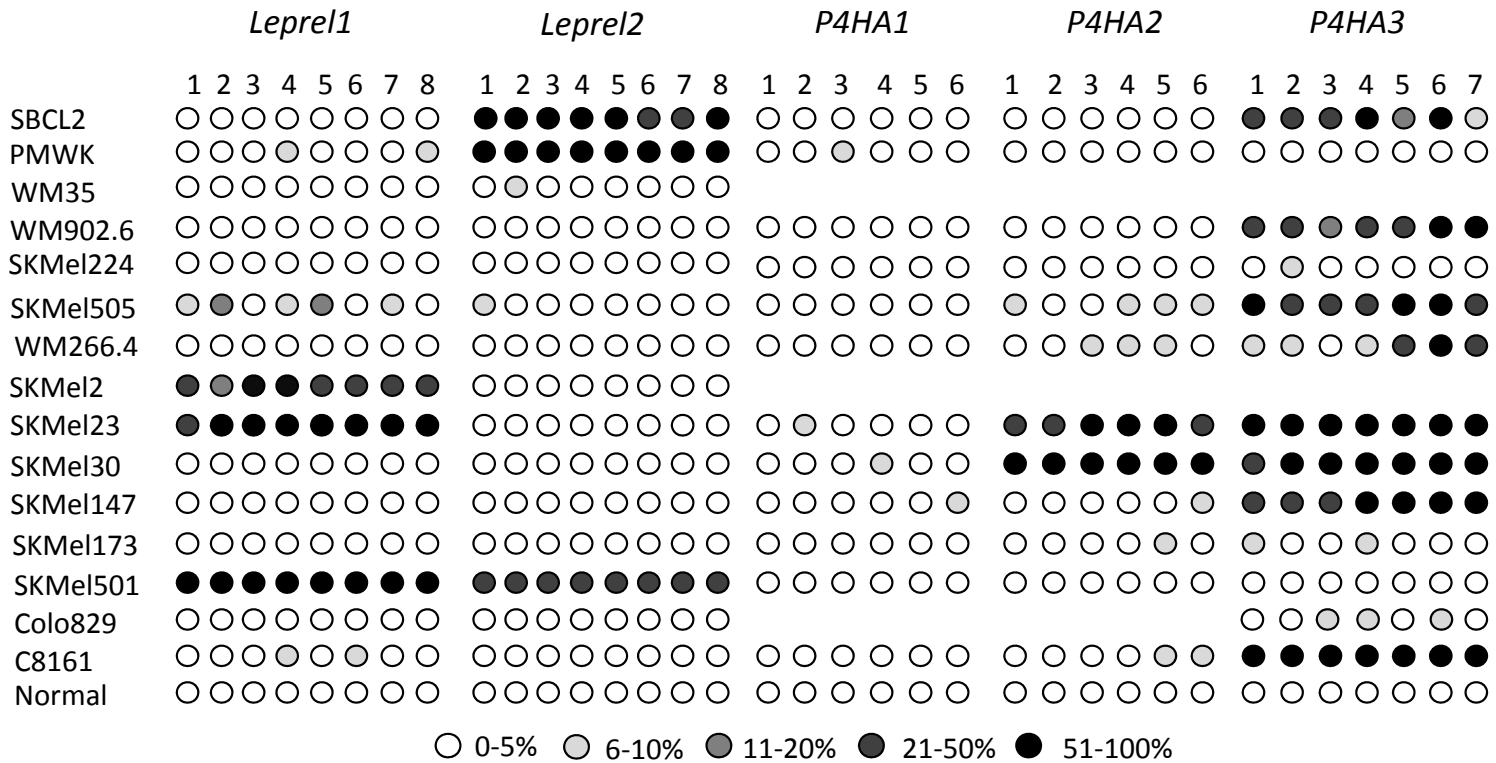


P4HA3 methylated clinical case



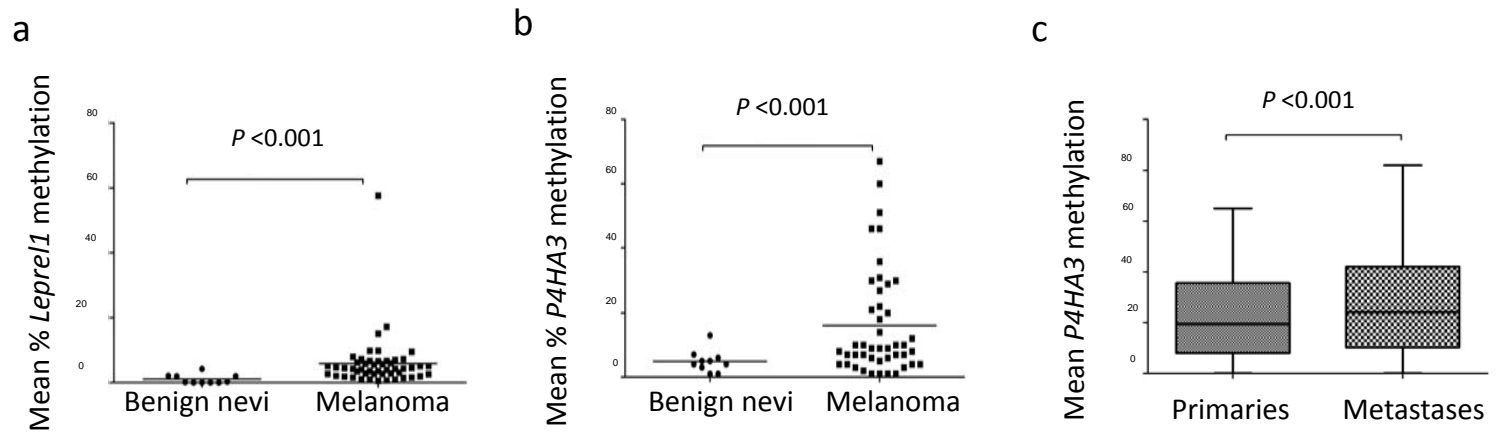
Supplementary Figure 1

Representative pyrograms for *Leprel1* and *P4HA3*.



Supplementary Figure 2

Expression of specific *C-P3H* and *C-P4H* genes is subject to methylation-dependent transcriptional silencing in melanoma. Data shows methylation profiles of each gene in the melanoma cell line panel. Five levels of methylation are represented, methylation increasing with the intensity of shading in the circles as shown.



Supplementary Figure 3

a: Mann-Whitney analysis of *Lepre1* in CpG island methylation in benign nevi and melanoma tissue samples. Methylation is significantly higher in melanomas. b: Mann-Whitney analysis of *P4HA3* in CpG island methylation in benign nevi and melanoma tissue samples. Methylation is significantly higher in melanomas. c: Average methylation in *P4HA3* in primary and metastatic melanoma.