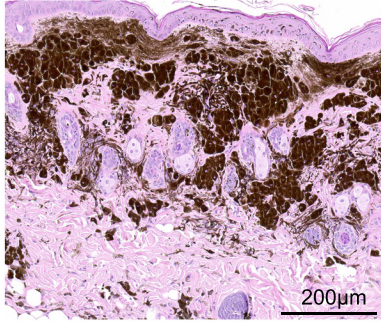


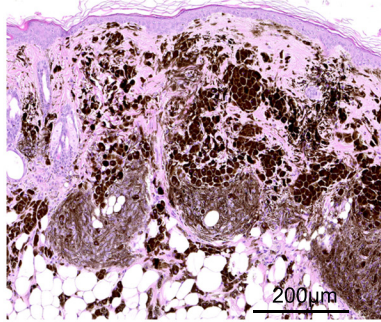
Suppl Figure S1

A

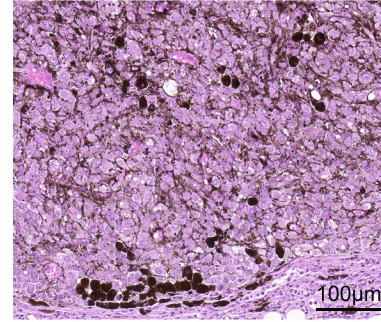
ML-A Classical nevus



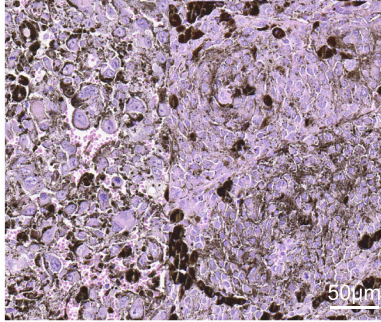
ML-B Cellular nevus



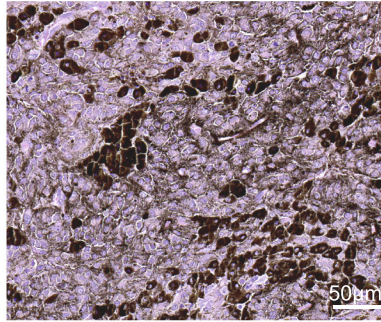
ML-C Cellular nevus



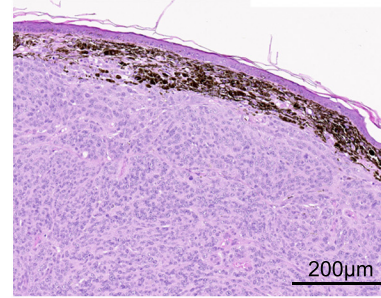
ML-D Melanoma (epithelioid)



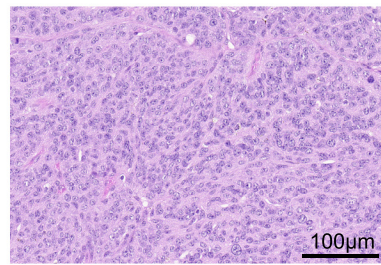
ML-D Melanoma (spindloid)



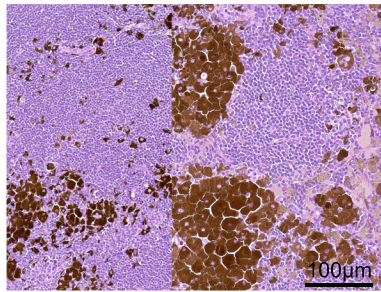
ML-D Melanoma (neuroendocrine pattern)



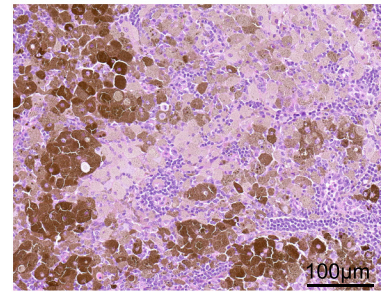
ML-D Melanoma (neuroendocrine pattern)



Dermatopathic lymphadenopathy

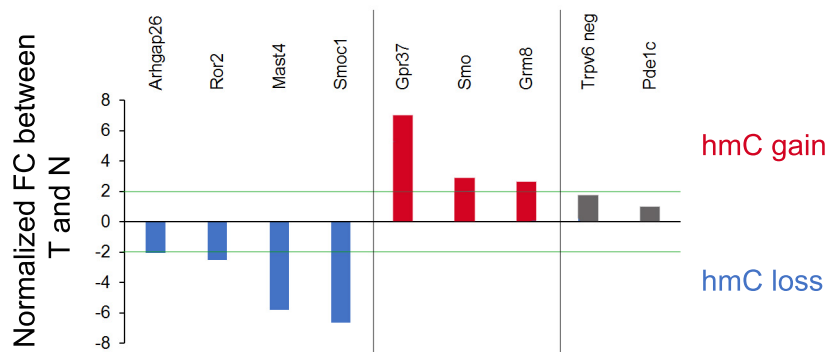


Dermatopathic lymphadenopathy



B

Validation of hmedIP-seq targets



DhmR between T and N by hmedIP-seq

hmC loss

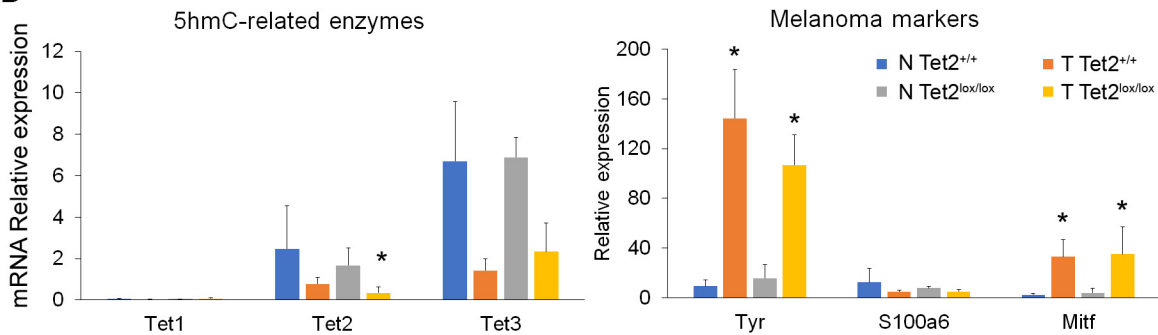
hmC gain

negative Ctl

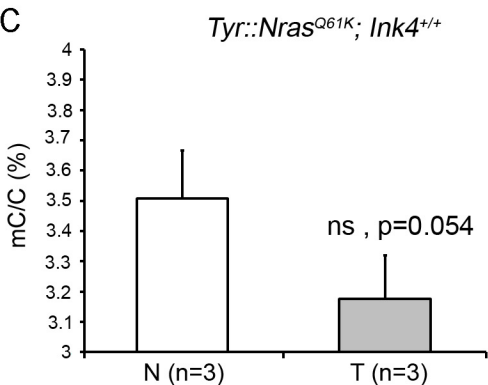
A

Sequences of primers for RT-qPCR		
Gene name	5'-3' sequence of Forward	5'-3' sequence of Reverse
Tet1	GAGCCTGTTCCTCGATGTGG	CAAACCCACCTGAGGCTGTT
Tet2	GTCAACAGGACATGATCCAGGAG	CCTGTTCCATCAGGCTTGCT
Tet3	CCGGATTGAGAAGGTCACTAC	AAGATAACAATCACGGCGTTCT
Pten	CTTTTCTTCAGCCACAGGCTC	GTCTTTCTGCAGGAAATCCCAT
p15	AGATCCCAACGCCCTGAAC	CCCATCATCATGACCTGGATT
p16	GTGTGCATGACGTGCCGG	ACGTGAACGTTGCCCATCAT
p19	GATCTTGAGAAGAGGGCCGC	TCATGACCGTAGTTGAGCAG
Tyr	TGACAAAGCCAAAACCCCA	TGGACTGGCAAATCCTTCCA
S100a6	CACATTCCATCCCTCGACC	GTGGAAGATGGCCACGAGAA
Mitf	GCCTTGTTTATGGTGCCTTC	GTCTCTCCCTCTACTTTCCTGT
Trp53	AACCGCCGACCTATCCTTAC	CTTCTGTACGGGGTCTCTC
p21	TTGTGCTGTCTTGCCTCT	TAGAAATCTGTCAGGCTGGTCT
Brn2	CGGCGGTTTGCTCTATTC	ATGGTGTGGCTCATCGTG
Pax3	GGGCAGAATTACCCACGAC	CGGATATGGTTGGCCAGAGG
Sox10	CTAGCCGACCAGTACCCTCA	GGCGCTTGTCACTTTCGTTTC
Gm12610	TACAACAGTCTGCTCCAGCG	ACTTCTGCAAAACGACGAT
Sdha	AAGGCAATGCTGGAGAAGA	TGGTCTGCATCGACTTCTG
Hprt	GTAATGATCAGTCAACGGGGAC	CCAGCAAGCTTGAACCTTAACCA
Actin	TGACCTGAAAGTACCCCATGA	CCATGTCGTCACGTTGGTAAC
Gapdh	CCTCGTCCCGTAGACAAAATG	TGAAGGGTCTGTTGATGGC
Sequences of primers for hmedIP-PCR		
Gene name	5'-3' sequence of Forward	5'-3' sequence of Reverse
Smo	ACCAGACAACAGGATGCCTT	CTGGGAAAAGAAACACGCA
Grm8	AAGCCTCACCAGTTCATCCC	GCTCAGAAAAGGGAGAGTCCA
Mast4	AGATTCCTCGGGCTTGTGG	GTACCCGGGAACACATCCAG
Smoc1	TGGTTATGGCCGTAGTCAGC	CGGAAGGTCAGAGGAGAACC
Pde1c	ACTAAGGTGGGTAAGGGACA	GGAAAGAGGGCTTGAGGCTT
Hdac9	GCTGGGTCACTCTAGCCTG	AGAAGCGTCTTGTCAACCAT
Arhgap26	TACTTCCCACGTGAACCCAG	ACTTGGATGCTGGACCACTG
Ror2	TCCTGAGGAAGCCCAAGAAAGC	GCCTTGCTTGGGAGAACTGAAA
Rad51b	TGGCCCTGTTGTGATCTGAC	GCCACCGCCTACTAATCAT
Gpr37	TCAAGCCCTGAGATTTGTGA	CAAGCAACAGACAGGTGTGC
Chr6 neg Ctl	TCACATGTTTGCATGCTGCC	ACCTGCTGTGATGATGGACC
Trpv6	AAACGTGTCCCTCAGTGTCCA	TGTTGCCCTTGCACTACTTT
Il131ra	GTACCCCAAGAGCTCATGTC	AGTTTGAAGACCAAGGGGT
Kdm2a	CCCTGTAACCTCCACAGGTC	AAAGCAACACTTGTCTGATGA
Peak1	GACCAGTGGATAGGCTGTTT	AGACTCTTACCTTGAGGCAC
h SON (spike)	GCACAGGAGCTGCCTACTA	ATATGGGATTTGGGGCCATC

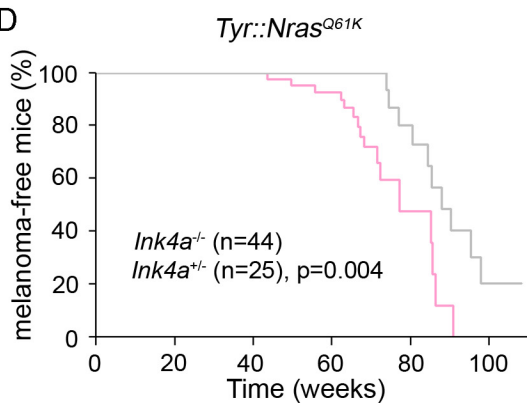
B



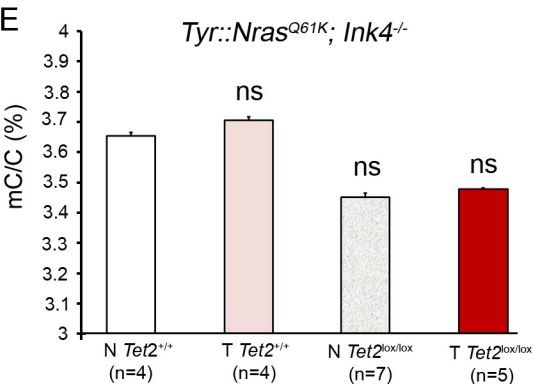
C



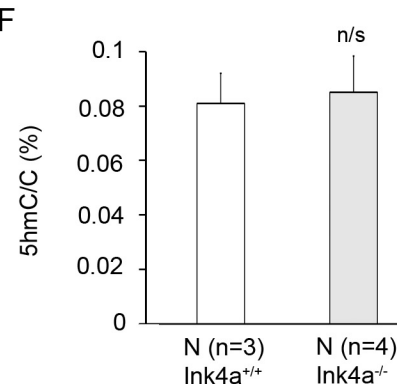
D



E

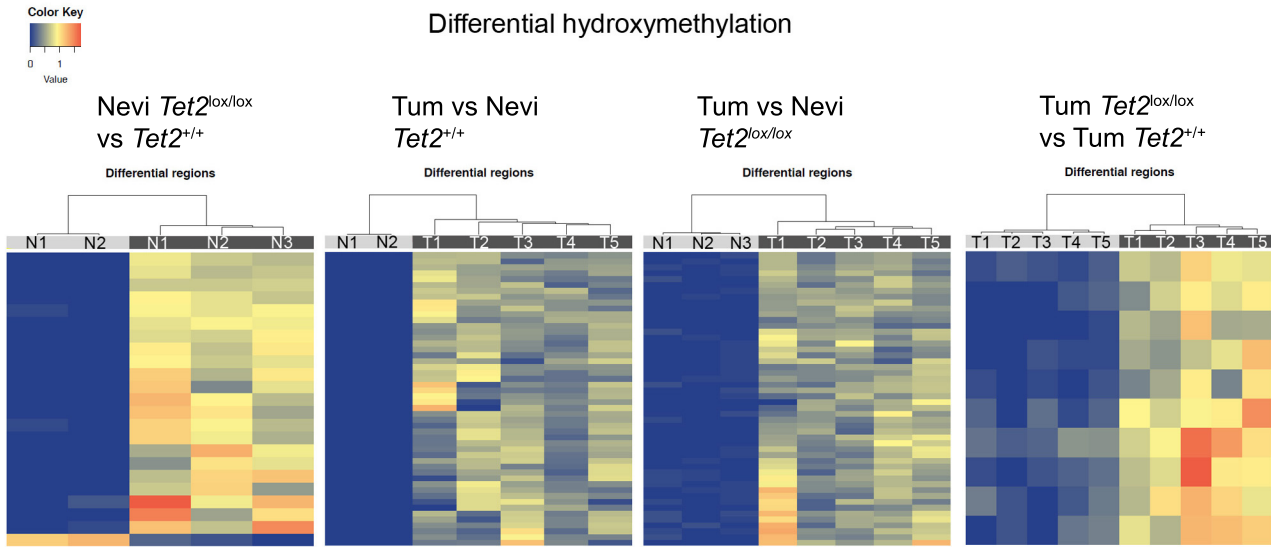


F

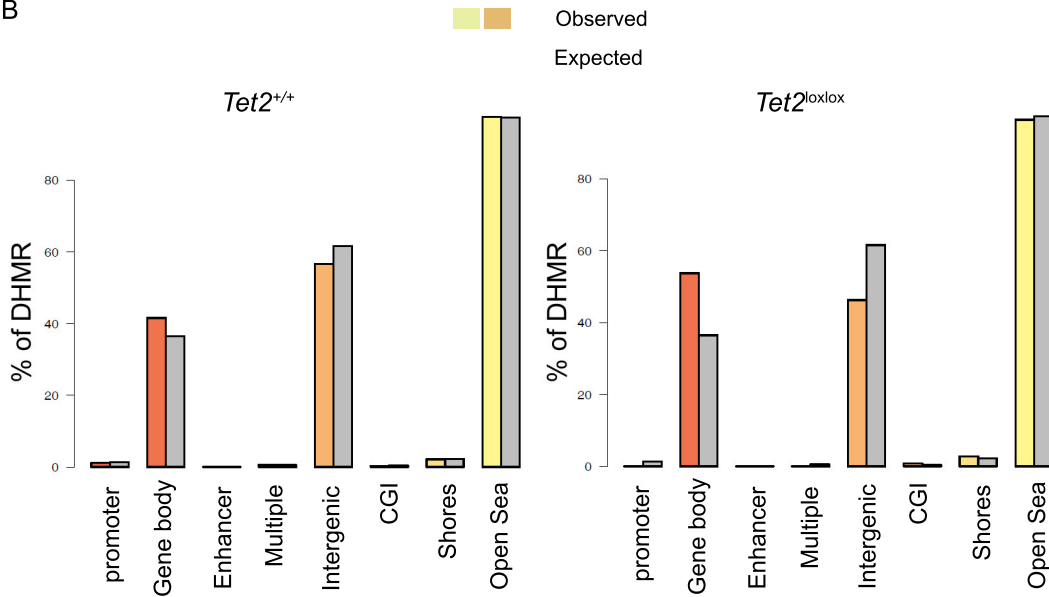


Suppl Figure S3

A



B



C

