

Reduced expression of metastasis suppressor NME1 in melanoma cells promotes genomic stability by inhibiting alternative NHEJ and enhancing NHEJ and HR pathways of double-strand break repair

Gemma Puts, Stuart Jarrett, Mary Leonard, Nicolette Matsangos, Devin Snyder, Ying Wang, Richard Vincent, Benjamin Portney, Rachel Abbotts, Lena McLaughlin, Michal Zalzman, Feyruz Rassool, and David Kaetzel

Supplementary Files

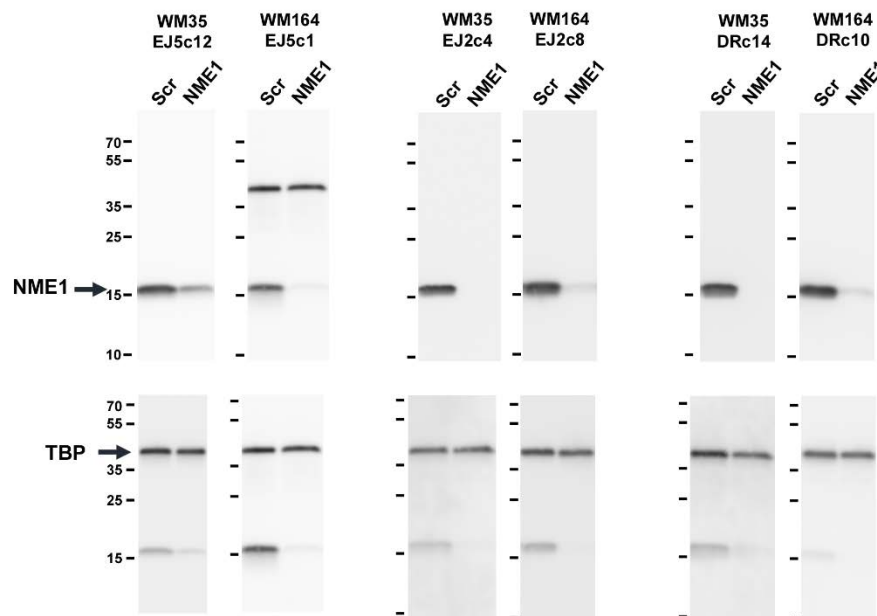


Figure S1. Full-length images of immunoblots shown in Figure 4.

Table S1. PCR Primers for I-PpoI assays.

Primer set	Distance from I-PpoI target site (bp)	Sequence	T _m (°C)	Product length (bp)
5	-3x10 ⁶	5'-CACCACGTCCAGCTGTTAAT-3' 3'-GGCCCTCACTCTGTCATTCT-5'	59	52
6	-6280	5'-AAGTCCCTGCCCTTTGTACA-3' 3'-AGGGCCTCACTAAACCATCC-5'	59	64
7b	-3335	5'-CAAAGCGGGTGGTAAACTCC-3' 3'-TTCACGCCCTCTTGA ACTCT-5'	59	114
8	-2080	5'-CTGGGTATAGGGGCGAAAGA-3' 3'-GAGGGAAACTTCGGAGGGAA-5'	59	64
9	-857	5'-GTAGGTAAGGGAAGTCGGCA-3' 3'-CAGCCCTTAGAGCCAATCCT-5'	59	64
10	+19	5'-TTAGTGACGCGCATGAATGG-3' 3'-GCTGTGGTTTCGCTGGATAG-5'	59	69
11b	+572	5'-AGCAGGAGGTGTCAGAAAAGT-3' 3'-GCTTGGCGAATTCTGCTTCA-5'	59	128
12	+1779	5'-GGA ACTCCCTCTCCCACATT-3' 3'-GCAGCAGTGACTCCCTCTTA-5'	59	79
13f	+4515	5'-GCGATCTCAATTGCCTTTTAGC-3' 3'-TGACACAGAAGAACCCATGAGA-5'	59	75
14	+6413	5'-TTGGGATCAGACTGGACCAC-3' 3'-ATACCCACGCACCCTTTACA-5'	59	101
15	+43300	5'-AGCAGGTCTCCAAGGTGAAC-3' 3'-CTTGCCGACTTCCCTTACCT-5'	59	65