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Supplemental Information

LINC00460-miR-149-5p/miR-150-5p-Mutant p53 Feedback Loop Promotes Oxaliplatin Resistance in Colorectal Cancer

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Supplemental Information

Figure S1

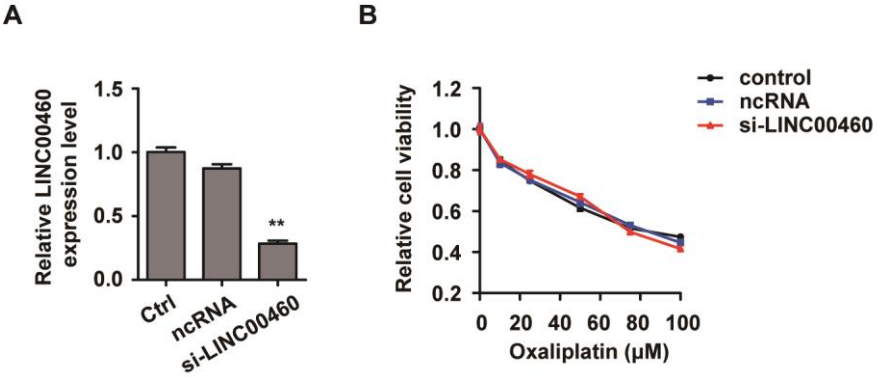

Figure S1. Knockdown of LINC00460 in HCT116/OxR cells had little effect on oxaliplatin resistance. (A) Relative expression level of LINC00460 in HCT116/OxR cells after LINC00460 knockdown. (B) CCK8 assays of cell viability in LINC00460-knockdown HCT116/OxR cells following oxaliplatin treatment (0, 10, 25, 50, 75 and 100μM). Data were shown as the mean ± SD; ∗∗$p < 0.01$.

Figure S2

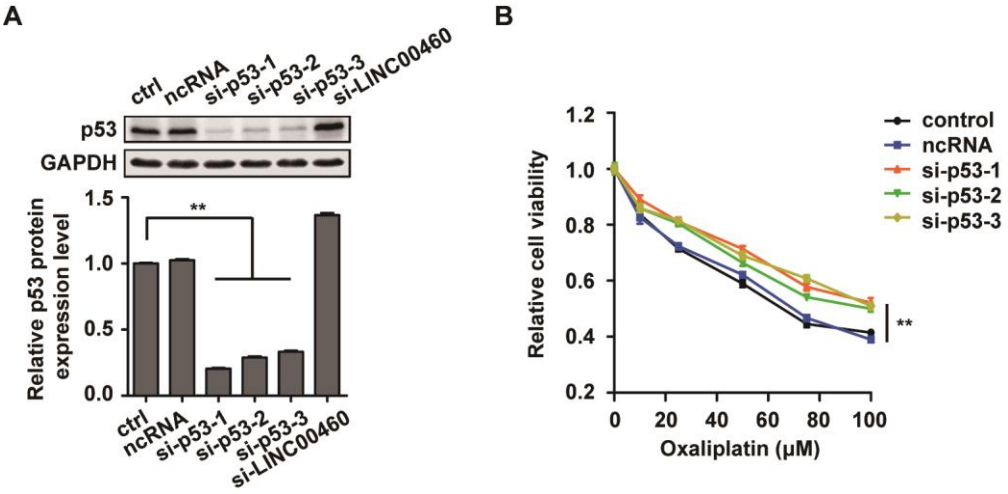

Figure S2. Knockdown of p53 in HCT116/OxR cells promoted the oxaliplatin resistance.

(A) p53 protein levels in HCT116/OxR cells transfected with ncRNA, si-p53-1, si-p53-2, si-p53-3 and si-LINC00460 were determined by western blot. Relative p53 protein levels were normalized to GAPDH and compared with the control group. (B) CCK-8 assays of cell viability in p53-knockdown HCT116/OxR cells following oxaliplatin treatment (0, 10, 25, 50, 75 and 100μM). Data were shown as the mean ± SD; $**p < 0.01$.

Figure S3

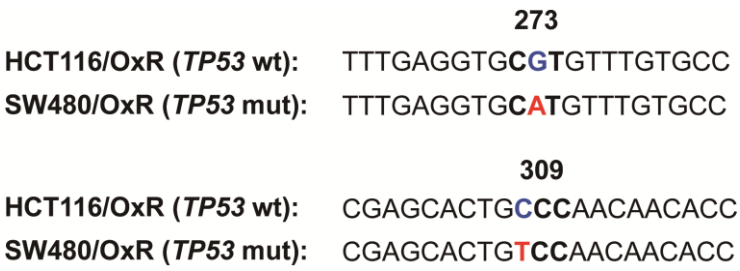

Figure S3. Two point mutations in the *TP53* gene in SW480/OxR cells.
Sequencing of the fragment containing codons 273 and 309 revealed wild-type (wt, blue) and mutant (mut, red) *TP53* in HCT116/OxR and SW480/OxR cells, respectively.

Table S1. Sequences of primers and siRNA & shRNA

Primers	Sequence (5'→3')
LINC00460 F:	GCAGAGTCCTCAAAACCAGATAAG
LINC00460 R:	TTCACATGGTAGACGGTGCAAG
RP11-355I22.7 F:	TCCAGAGGTTCAAGAGAGAGAGAG
RP11-355I22.7 R:	CACCCACATGGAATGTTCTGAAG
LOC339535 F:	TCTAAGGTGGAGATTACCAGGGTAG
LOC339535 R:	GCAGGTTATGTAGCCACAGACATC
RP11-497G19.2 F:	TCTGGCTTCGGGAGAATCAG
RP11-497G19.2 R:	CAGGCGAGGAAAGGACAATG
RP11-260A9.6 F:	GCCTGTATCTCCGCATCTGTG
RP11-260A9.6 R:	AAGATCCTCACCCTCCTCCTTAG
RP11-61L23.2 F:	GGTTTGTGGTTGGCACTGTC
RP11-61L23.2 R:	GTGGGTGTGGTAGGTTCCATG
LINC00551 F:	GGTTGGCATCCCAGATGAAG
LINC00551 R:	CCTTGTCACTTTGGGTGCAG
FOXF1-AS1 F:	TGATGGTGGAGGCAGACATTG
FOXF1-AS1 R:	CAGAAGTCCGAAAGGTGATGAAG
CTD-2245E15.3 F:	CCAGGGAACAAGGATGGAATG
CTD-2245E15.3 R:	CAAGGTAGGGTTTGACCGATG
LOC100506305 F:	TTCAGGAGAACAGCCCTCTGAG
LOC100506305 R:	GCTGGAGCCCATCCATTAGAG
LOC389023 F:	GGAAGCATGGGTCAGAATAAGG
LOC389023 R:	TTCCTGAAACTTGGAACCGAAG
LOC100505912 F:	TCGGAAATGACCTCTGATAAACAC
LOC100505912 R:	AGGACTGCTAAAGTGCAGCTTG
GAPDH F:	CCACTCCTCCACCTTTGAC
GAPDH R:	ACCCTGTTGCTGTAGCCA
FOS F:	TACTACCACTCACCCGCAGA
FOS R:	CGTGGGAATGAAGTTGGCAC
TRAF1 F:	TCACCAATGTCACCAGGCG
TRAF1 R:	TGAAGAGCGACAGATGGGTT
XIAP F:	TACCGTGCGGTGCTTTAGTT
XIAP R:	TTTGTAGACTGCGTGGCACT
PDPK1 F:	AGGCAGCAACATAGAGCAGT
PDPK1 R:	CGTCCTGTTAGGCAAGGGTT
CENPA F:	CGCTTCCTCCCATCAACACA
CENPA R:	AAGTCCACACCACGAGTGAA
GADD45B F:	GCCCTGCAAATCCACTTCAC
GADD45B R:	GTGTGAGGGTTCGTGACCAG
ID1 F:	CCAGCACGTCATCGACTACA
ID1 R:	GACACAAGATGCGATCGTCC
ID2 F:	CGACTGCTACTCCAAGCTCAA
ID2 R:	ATAGTGGGATGCGAGTCCAG

siRNA & shRNA	Sequence (5'→3')
si-p53-1	CTGCCCTCAACAAGATGTT
si-p53-2	GGTGAACCTTAGTACCTAA
si-p53-3	GAAATTTGCGTGTGGAGTA
sh-LINC00460	GGTACCCAGACATTGTTATGA