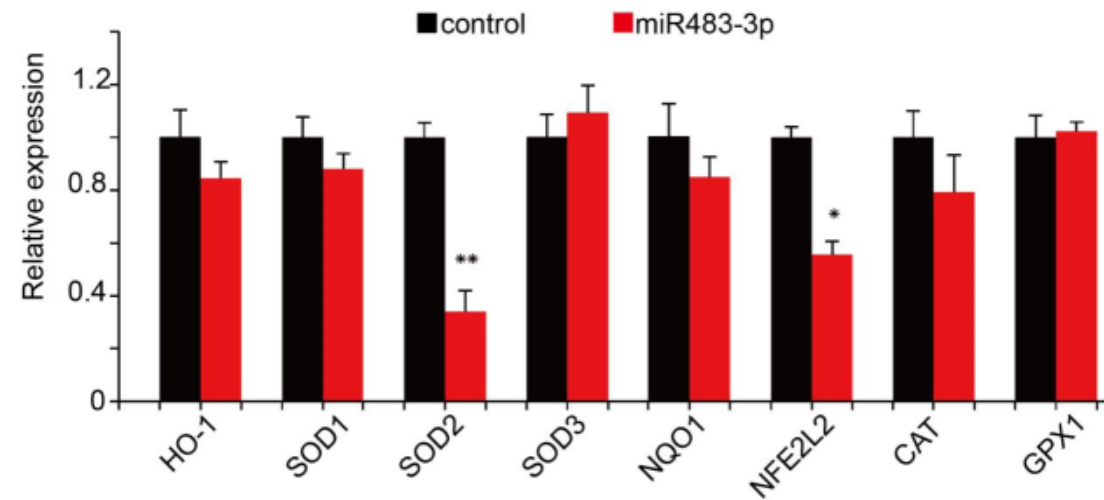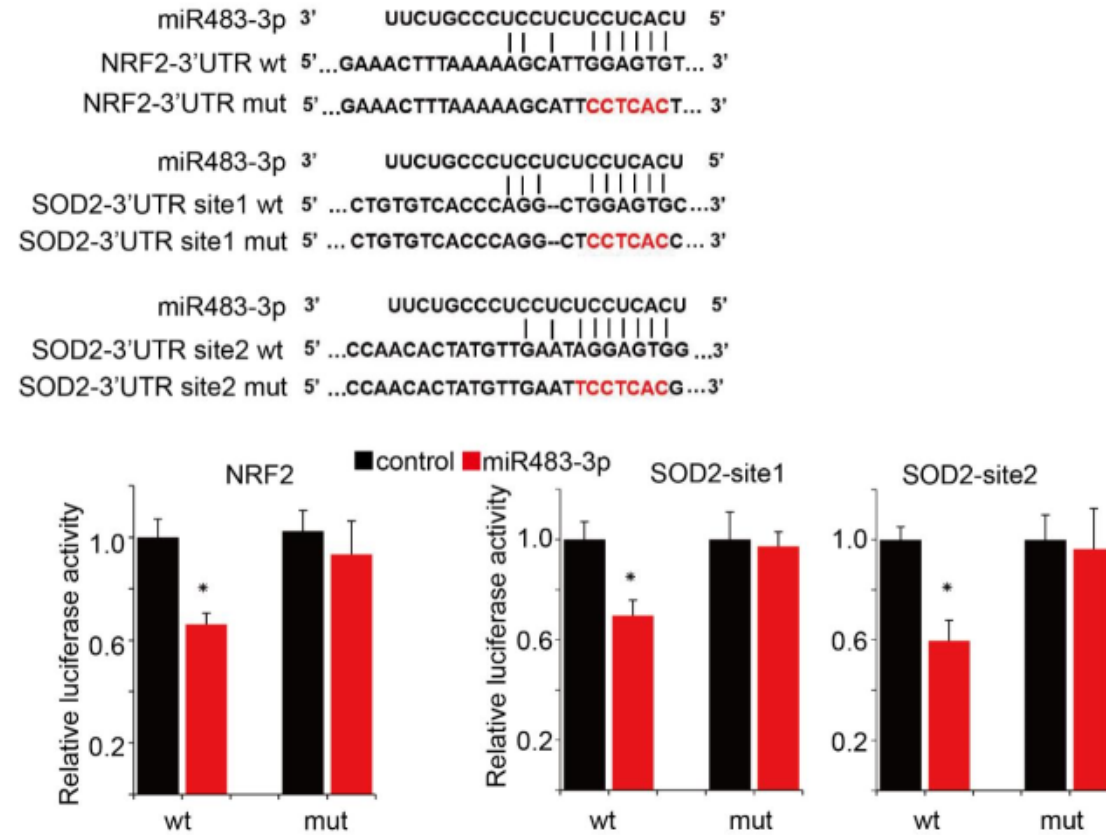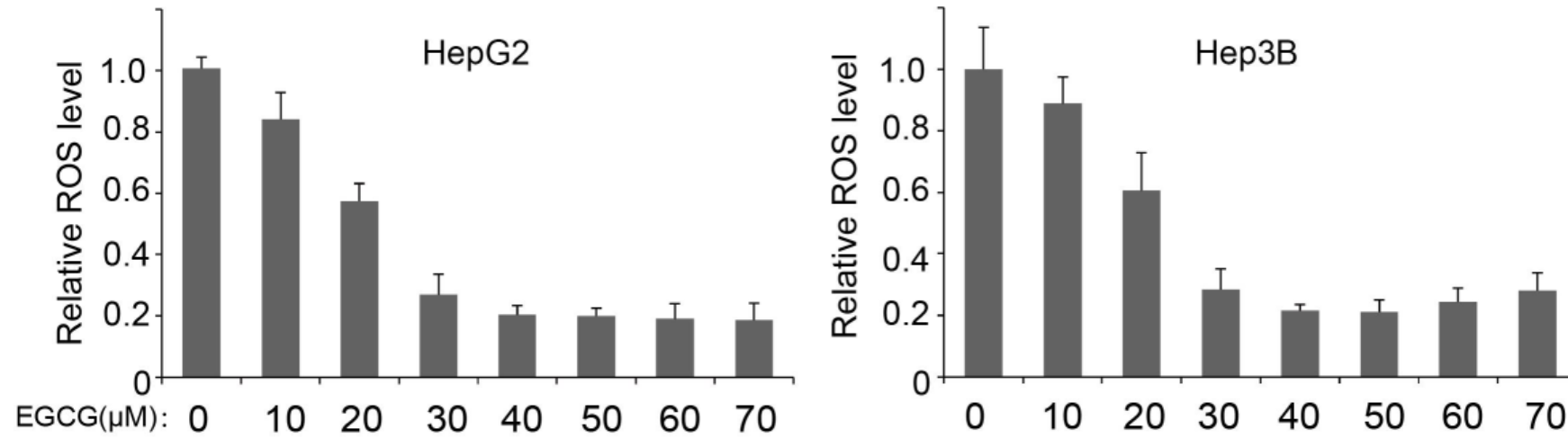**Supplementary Fig. 1**

Supplementary Fig. 1. Identification of antioxidant genes targeted by miR483-3p.
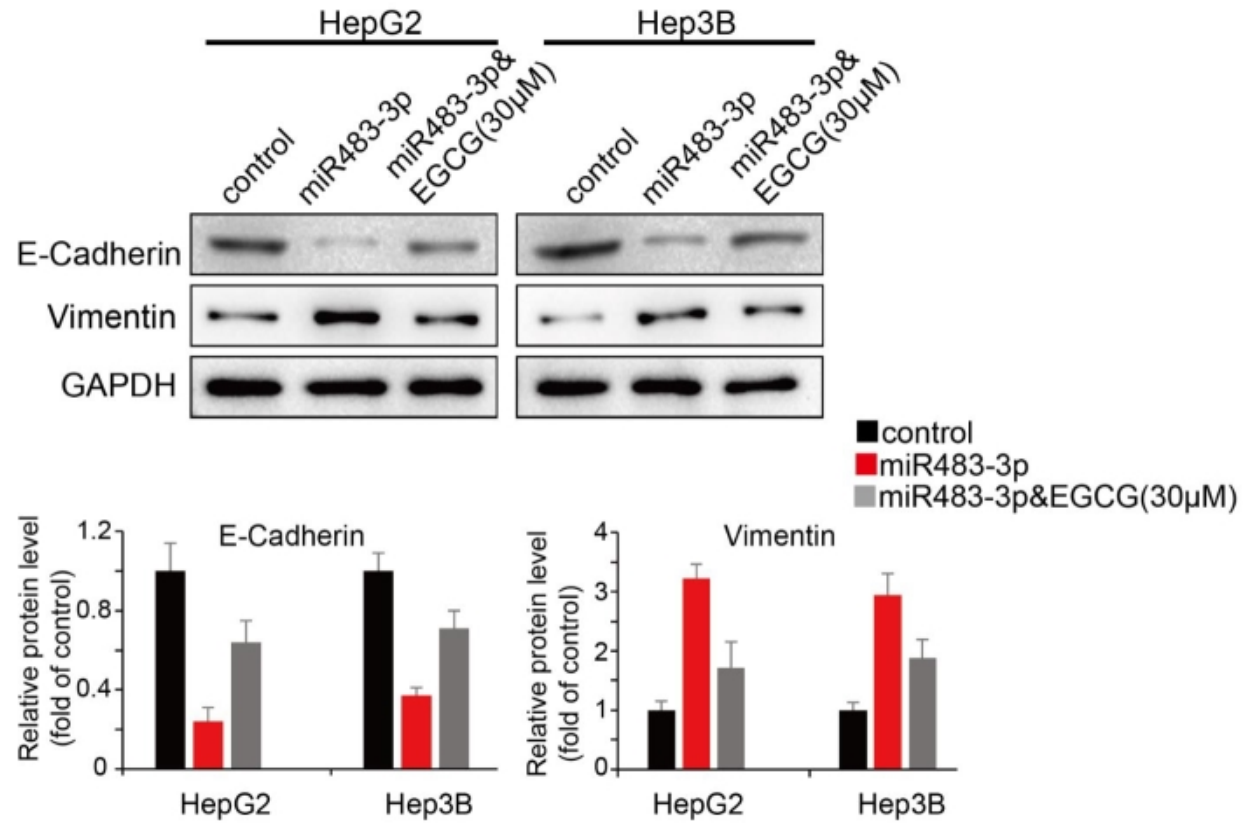
Supplementary Fig. 2

Supplementary Fig. 2. Luciferase activity assay of antioxidant genes targeted by miR483-3p.
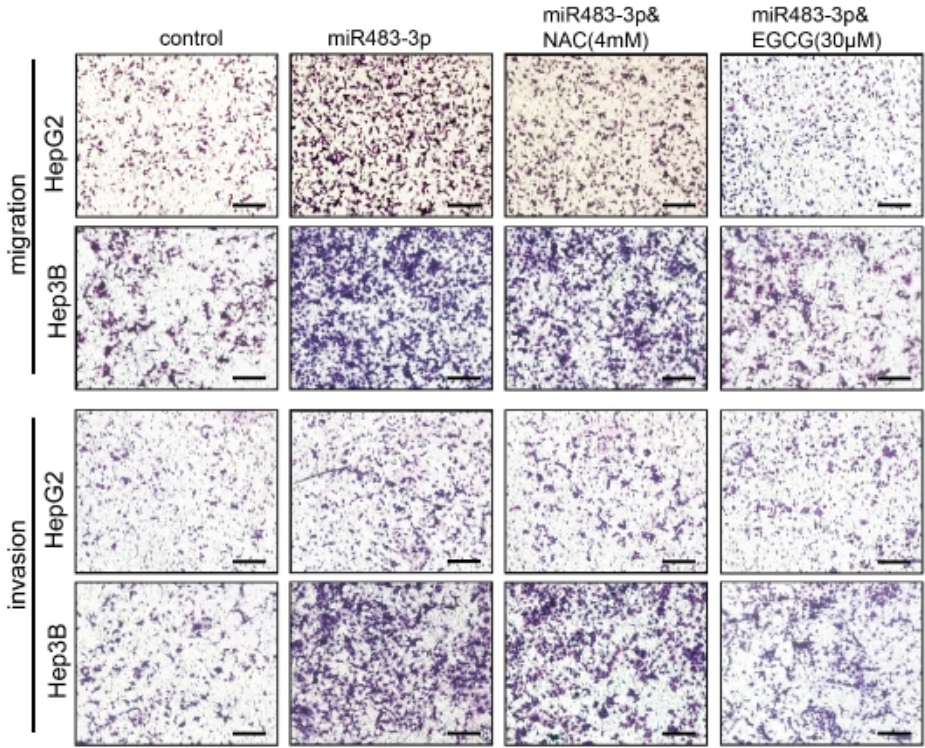
Supplementary Fig. 3

Supplementary Fig. 3. Effect of EGCG on ROS levels in miR483-3p-overexpressed HCC cells.
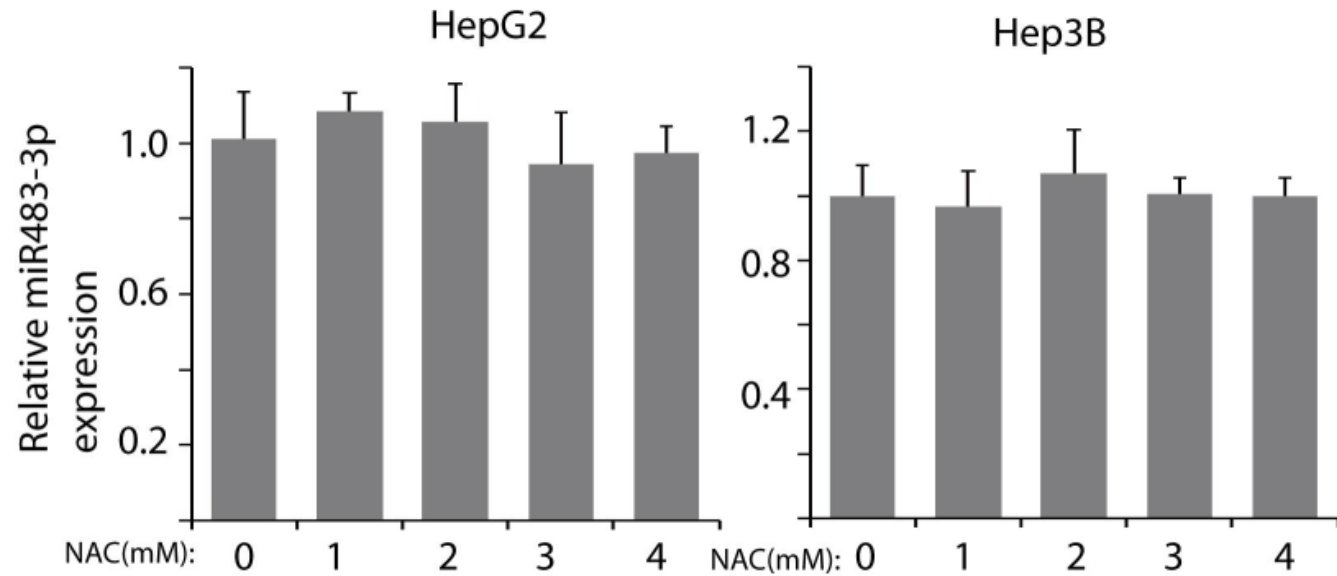
Supplementary Fig. 4

Supplementary Fig. 4. Levels of EMT markers (E-cadherin and vimentin) in HCC cells subjected to different treatments.
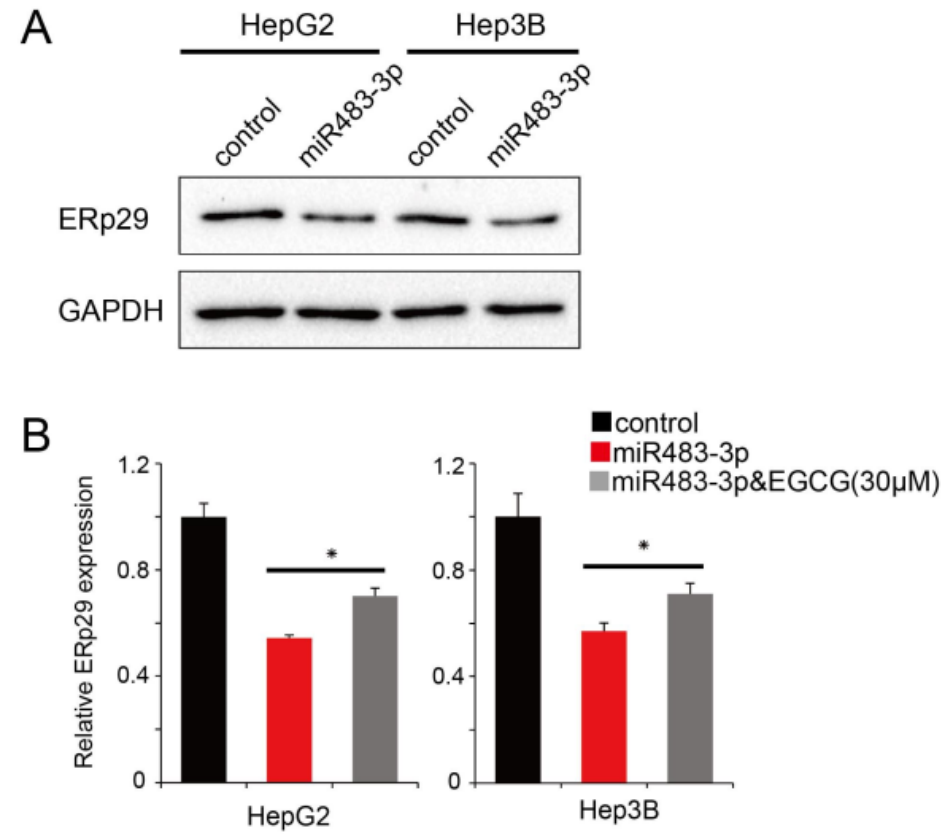
Supplementary Fig. 5

Supplementary Fig. 5. Migration and invasion assays of HCC cells subjected to different treatments. scale bar = 100μm.

Supplementary Fig. 6

Supplementary Fig. 6. Effect of different concentrations of NAC on the expression of miR483-3p in HCC cells.

Supplementary Fig. 7

Supplementary Fig. 7. Non-cytotoxic dose of EGCG partly restores the miR483-3p induced downregulation of ERp29 in HCC cells.

qPCR primers

	Forward	Reverse
SOD2:	GGAAGCCATCAAACGTGACTT	CCCGTTCCTTATTGAAACCAAGC
NRF2:	TCAGCGACGGAAAGAGTATGA	CCACTGGTTTCTGACTGGATGT
SOD1:	GGTGGGCCAAAGGATGAAGAG	CCACAAGCCAAACGACTTCC
SOD3:	ATGCTGGCGCTACTGTGTTC	CTCCGCCGAGTCAGAGTTG
HO-1:	AAGACTGCGTTCCTGCTCAAC	AAAGCCCTACAGCAACTGTCG
GAPDH:	AATCCCATCACCATCTTCCA	TGGACTCCACGACGTACTCA
CAT :	TGGAGCTGGTAACCCAGTAGG	CCTTTGCCTTGGAGTATTTGGTA
GPX1:	CAGTCGGTGTATGCCTTCTCG	GAGGGACGCCACATTCTCG
NQO1:	GAAGAGCACTGATCGTACTGGC	GGATACTGAAAGTTCGCAGGG
miR483-3p:	GCGAGCACTCACTCCTCTC	TGGTGTCGTGGAGTCGGC

Stem loop primers for miR483-3p reverse transcription:
GCGTCTCAACTGGTGTCGTGGAGTCGGCAATTCAGTTGAGACGCAAGACGGGA

sgRNA targeting miR483-3p promoter
sgRNA-1:TCCAGCTGAGCATTGCTGTG
sgRNA-2:CTTGGGGGACCCCCGTGATG

Primers for BSP
forward: TTTTTTGAGAGGAGGGGAGGG   reverse: CACCACCCCTAAAACTACTAAAACA