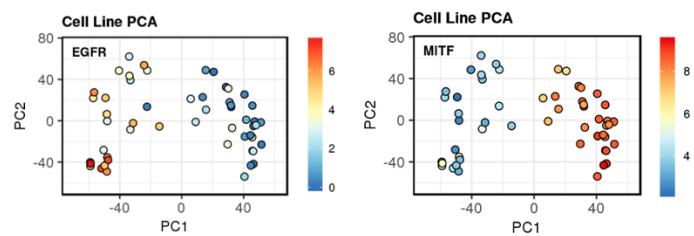


Supplementary information

Supplementary Figures

Supplementary Figure 1

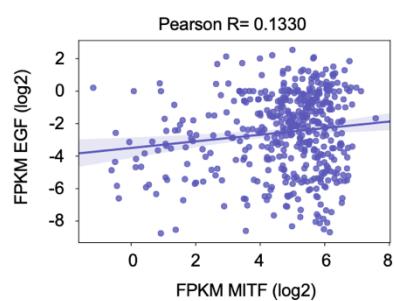


Supplementary Figure 1: Negative correlation of EGFR and MITF expression in melanoma

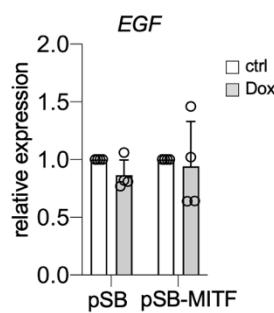
Melanoma gene expression color maps, showing the expression of EGFR and MITF in 53 melanoma cell lines, visualized in the context of principal component analysis of RNA expression data. Data are derived from <https://systems.crump.ucla.edu/dediff/index.php>.

Supplementary Figure 2

A



B



Supplementary Figure 2: No effect of MITF on EGF expression in melanoma

A: Linear regression analysis of *MITF* and *EGF* mRNA ($n = 470$). The results shown here are based upon data derived from the TCGA dataset Skin Cutaneous Melanoma, and FPKM values were downloaded from the GDC portal (<https://portal.gdc.cancer.gov>). **B:** Real-time PCR of *EGFR* gene expression in UACC-62 cells transgenic for the pSB control vector or the doxycycline-inducible pSB-MITF vector (3 d).

Supplementary Tables

Supplementary Table 1

Human oligonucleotides used for RT-qPCR

Gene	ENSEMBL ID	Forward Primer	Reverse Primer
ACTB	ENSG00000075624	5'-GGCATCCTGACCCCTGAAGTA-3'	5'-GGGGTGTGAAGGTCTCAA-3'
EGF	ENSG00000138798	5'-TGACTCTACTCCACCCCCCACCT-3'	5'-AGGTCTCGGTACTGACATCGCTCC-3'
EGFR	ENSG00000146648	5'-AGTGCTGGATGATAGACGCA-3'	5'-CCTGAATGACAAGGTAGCGC-3'
HMOX1	ENSG00000100292	5'-CTTCTTCACCTTCCCCAACAA-3'	5'-AGCTCCTGCAACTCCTCAA-3'
NQO1	ENSG00000181019	5'-AGCCCAGATATTGTGGCTGA-3'	5'-CGGAAGGGCCTTGTTCATA-3'
SLC7A11	ENSG00000151012	5'-TTTGCACCCTTGACAATGA-3'	5'-GGAAAACAAAGCTGGGATGA-3'
TGFA	ENSG00000163235	5'-TCGCTCTGGGTATTGTGTTG-3'	5'-GGGAATCTGGGCAGTCATTA-3'

Supplementary Table 2

siRNA sequences used in this study

siRNA	Target sequence
siNFE2L2_1 (N1)	5'-GGAGAAAAUUGACAAAAGCtt-3'
siNFE2L2_2 (N2)	5'-GGAGCUUUAUCCAUUCCUtt-3'

Quantified western blots

Figure 1

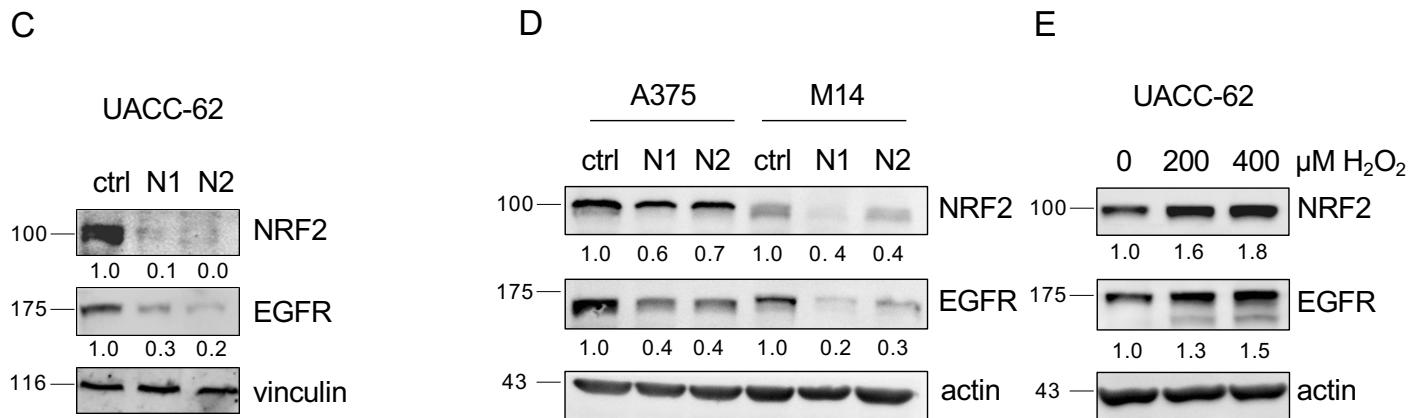


Figure 3

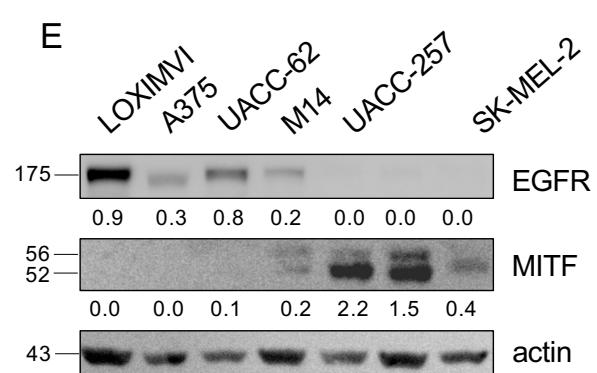


Figure 5

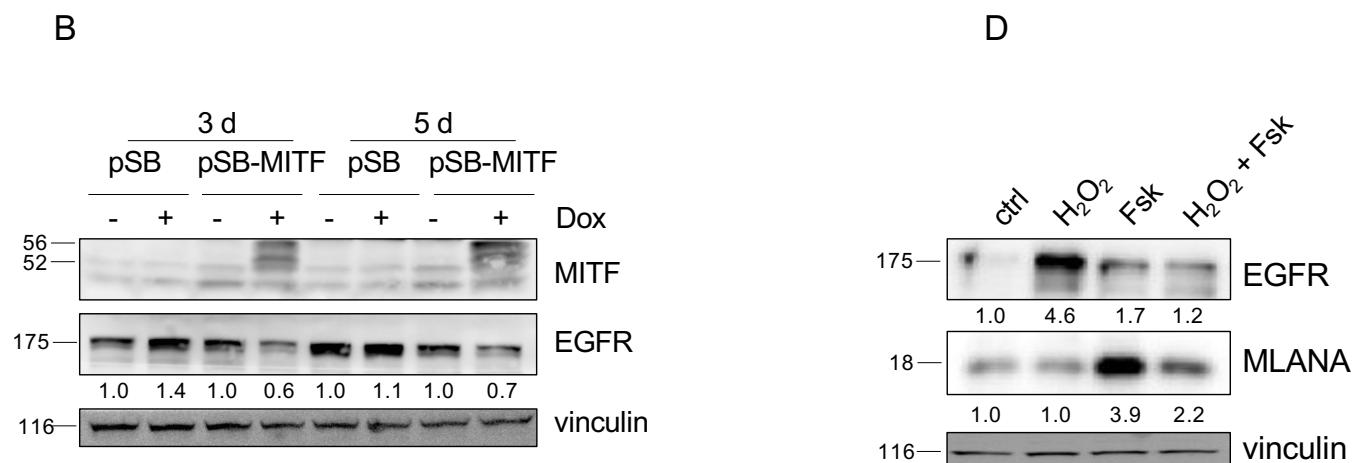
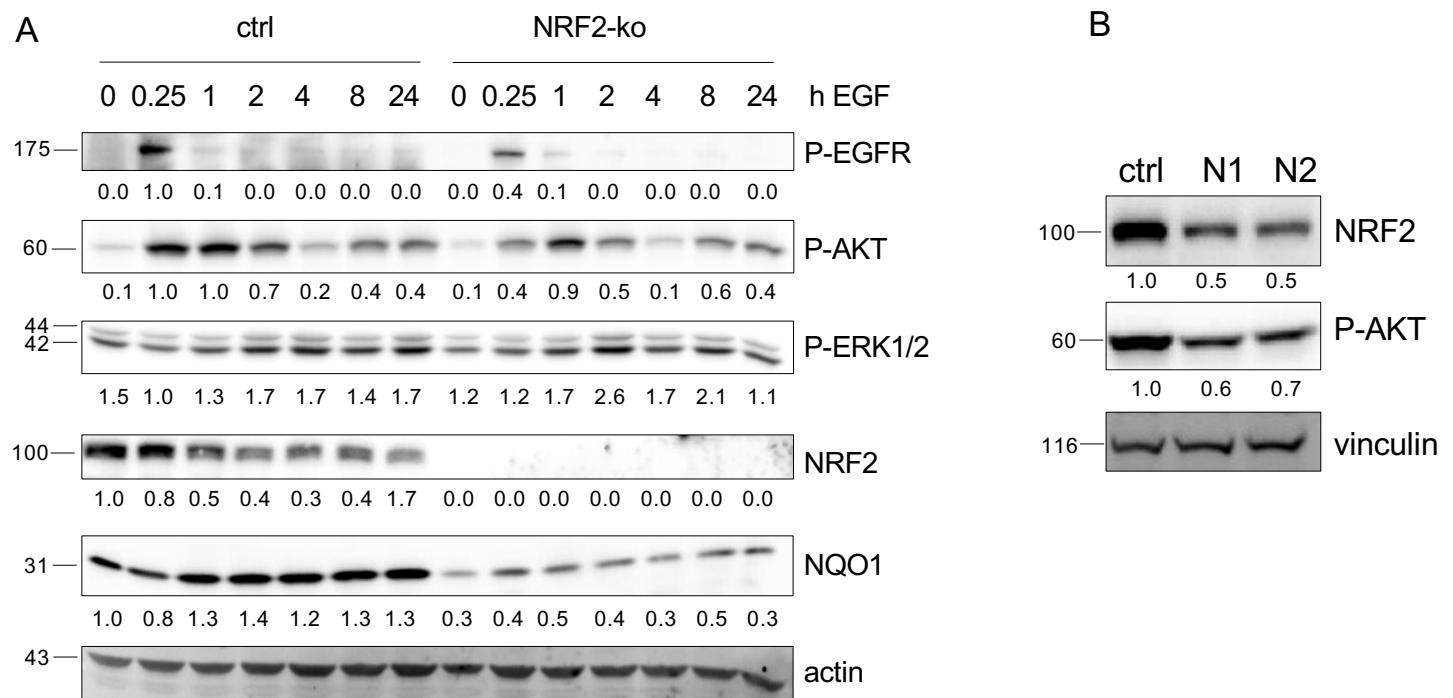


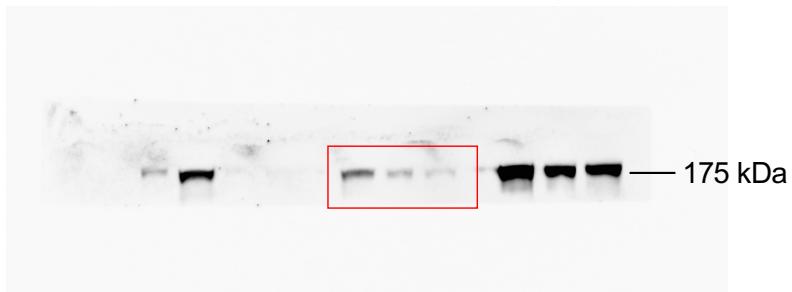
Figure 6



Uncropped Western blot images

Figure 1C

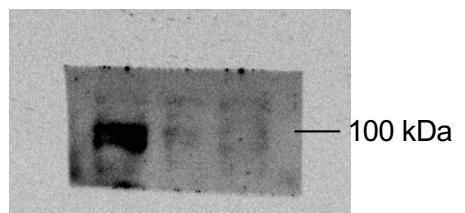
EGFR



NRF2



NRF2,
longer exposure



vinculin

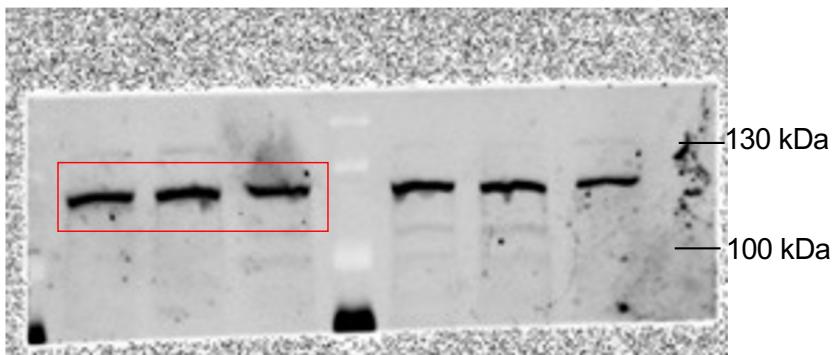
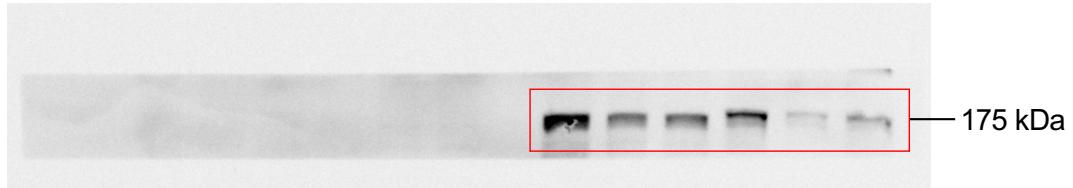
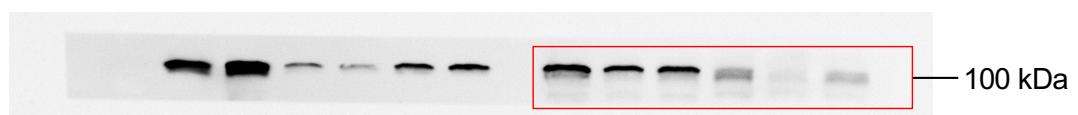


Figure 1D

EGFR



NRF2



actin

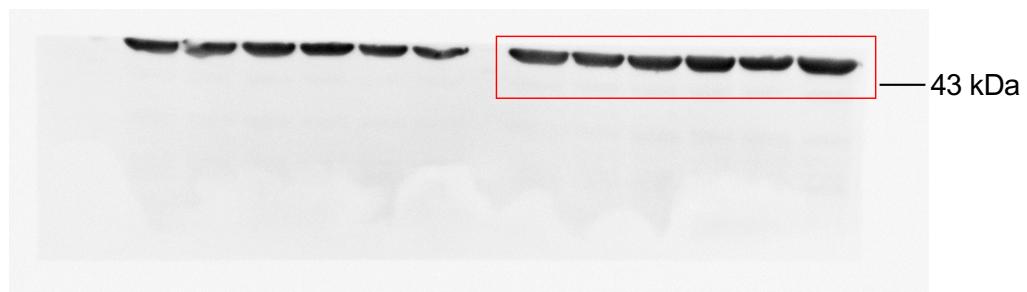


Figure 1E

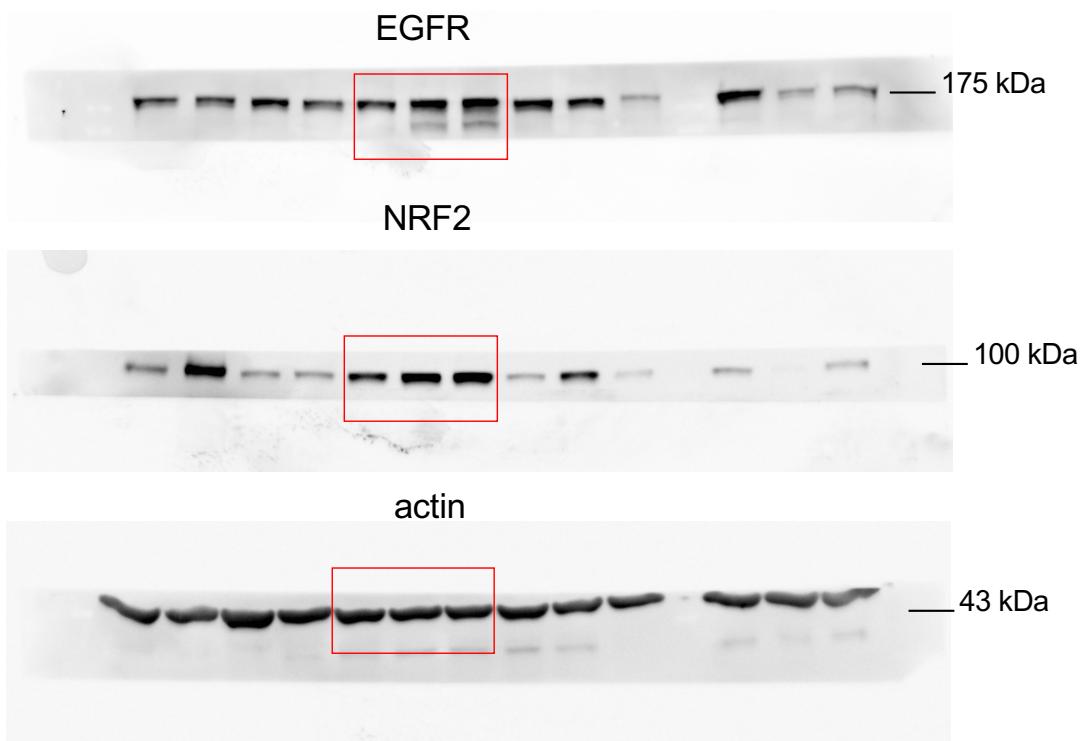


Figure 3E

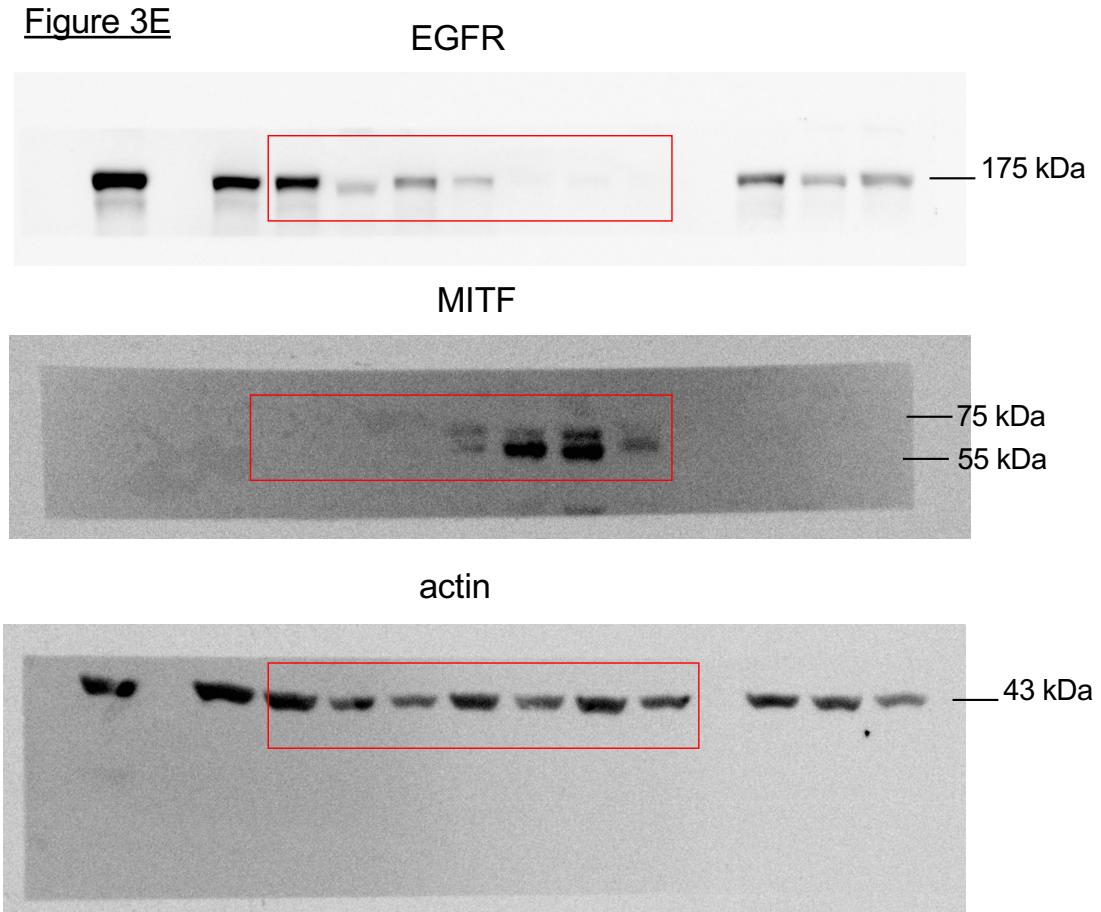


Figure 5B

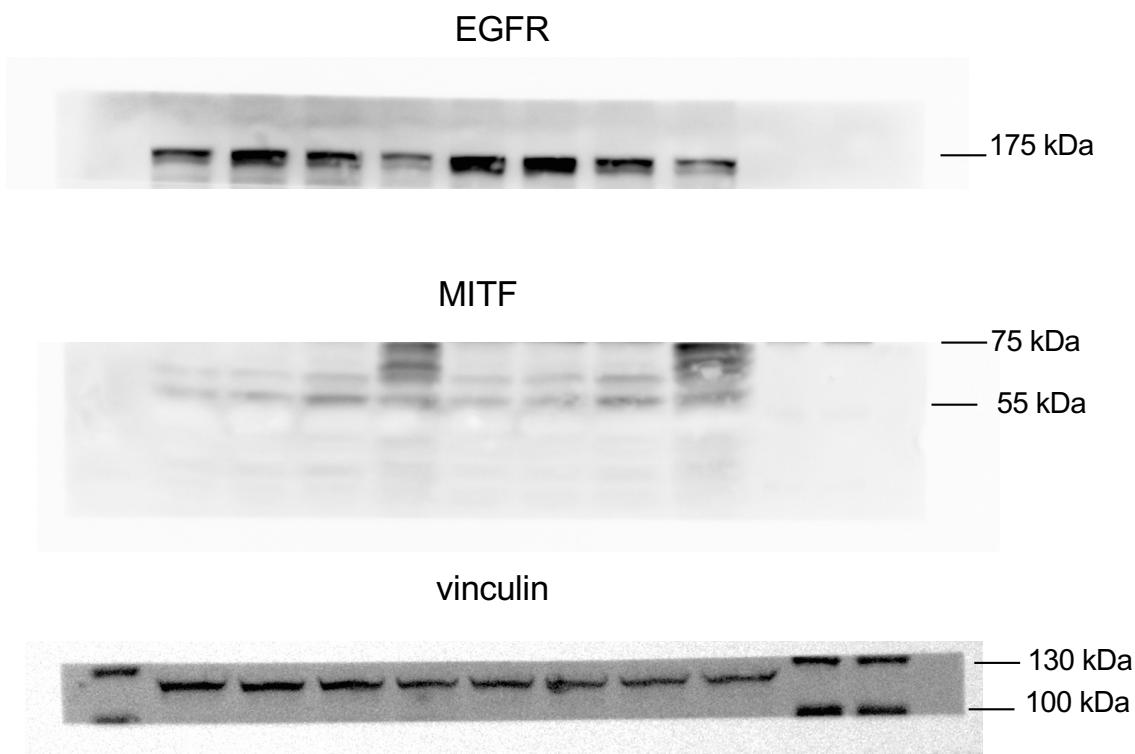


Figure 5D

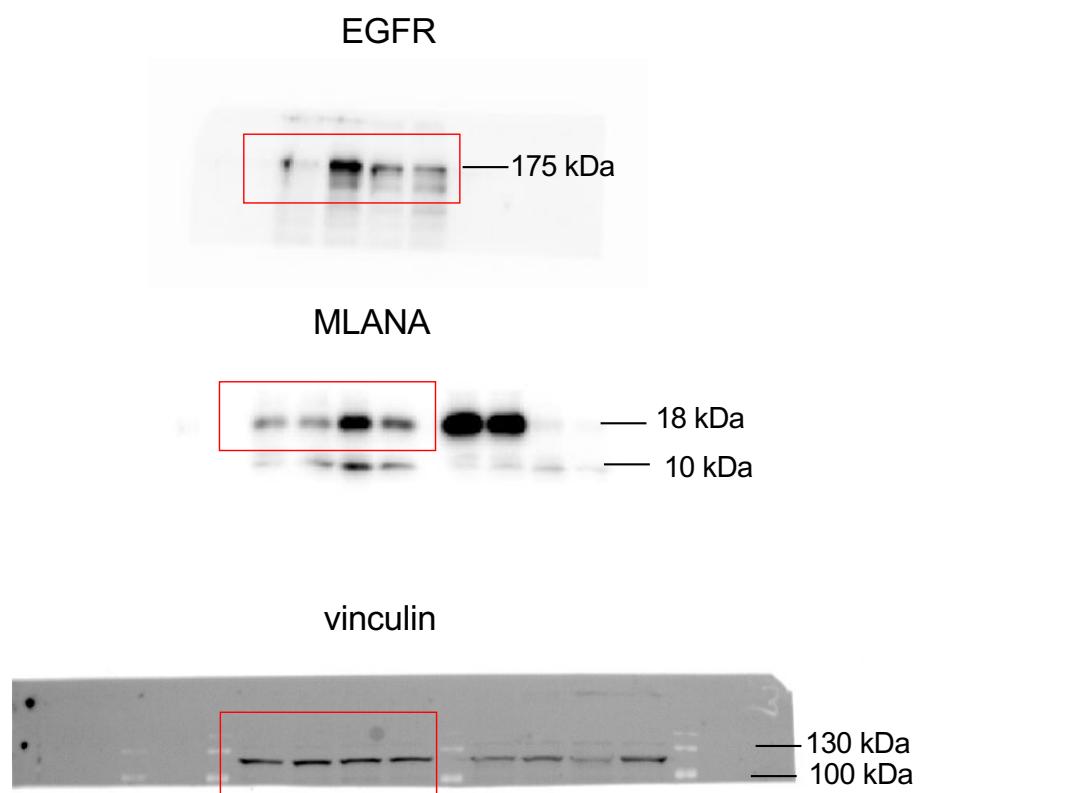


Figure 6A

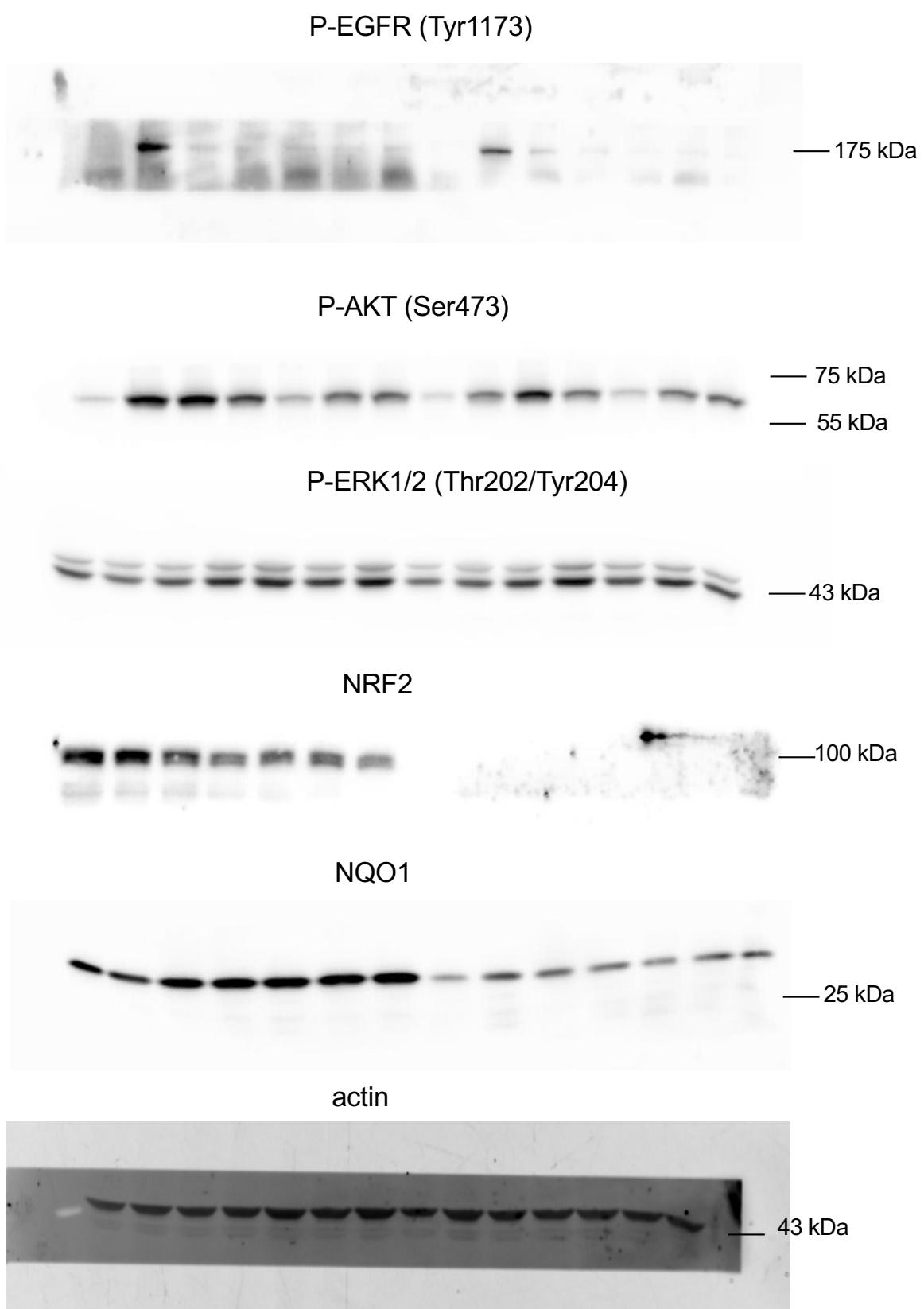


Figure 6B

