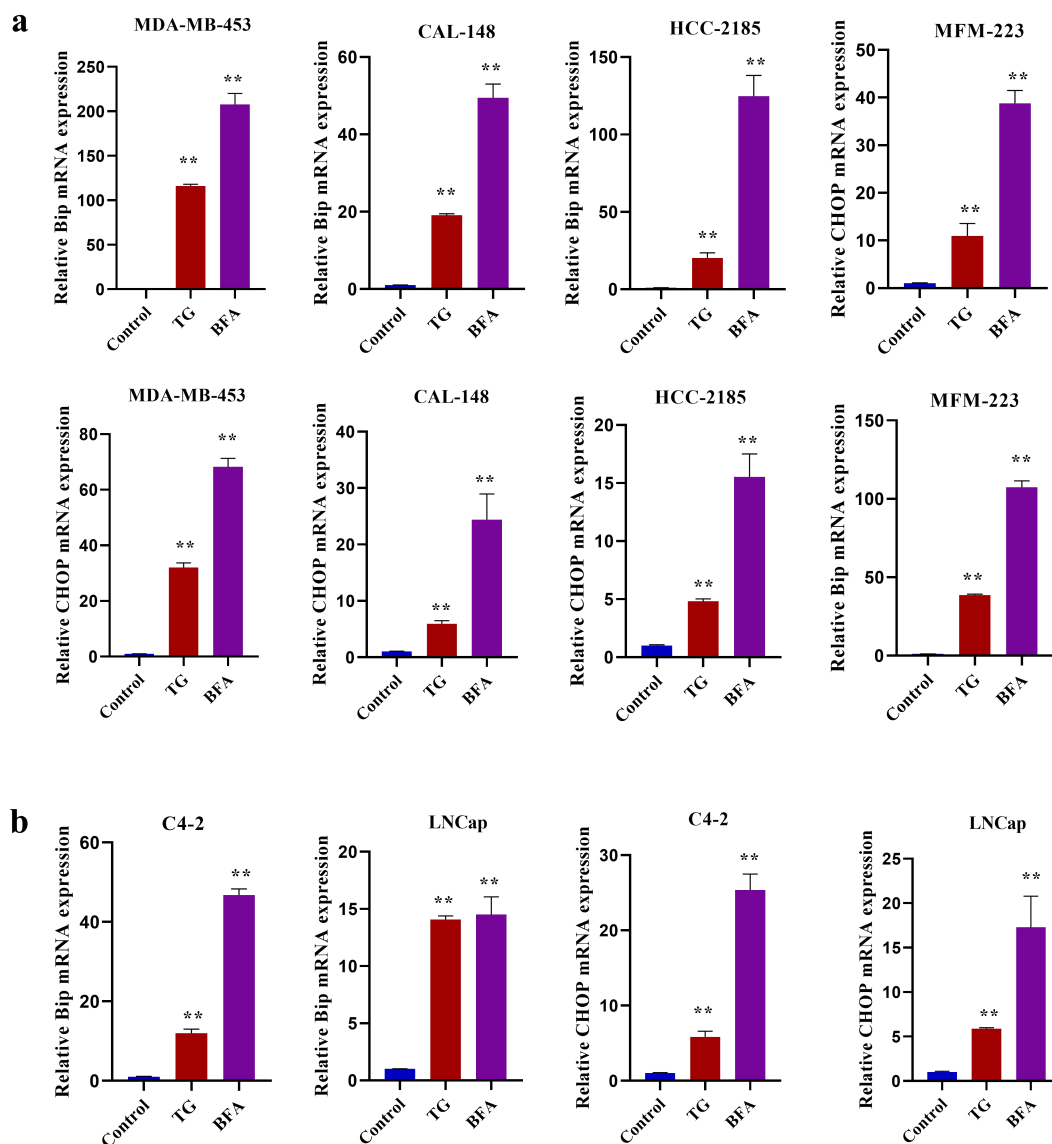


Supplementary Table 1. The RT-PCR primers

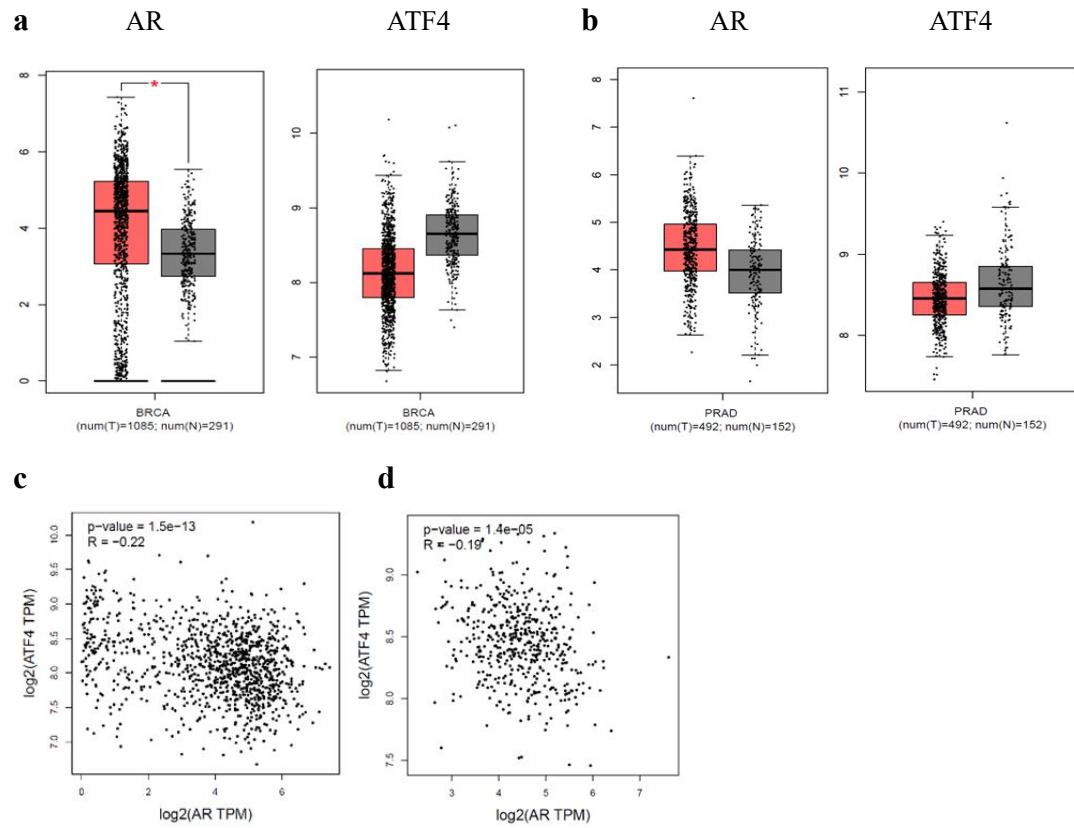
Gene	Primer	
β -actin	Forward	ACCCCGTGCTGCTGACCGAG
	Reverse	TCCCGGCCAGCCAGGTCCA
BiP	Forward	TGTCGCCTTCACTCCTG
	Reverse	ACAGACGGGTCATTCCAC
CHOP	Forward	GCCACTCCCCATTATCCT
	Reverse	CCTCATACCAGGCTTCCA
AR	Forward	CCATCCACGTTGTCCCT
	Reverse	GCTGTTGCTGAAGGAGTTG

Supplementary Table 2 The RT-PCR primers

Gene	Primer	
AR1	Forward	AGGTGGAGGGGAAAATGTACAAAGTG
	Reverse	CTGCCCATTTATTTTCATCTCTGTTG
AR2	Forward	TGGCAACAACAGAGATGAAATAAAT
	Reverse	TTTGTACCAGCTTTCTTCTTCTTC
AR3	Forward	TGCAAAGAACAGGAGGAGAAAGAAG
	Reverse	CAGAAGGCTAGTGTGTCATTTAAAAGA
AR4	Forward	AATTGTTGACAGCACCATCTTTAAA
	Reverse	ATGAACAATGGACAGGAGTGAAGAG
AR5	Forward	TCCTCTTCACTCCTGTCCATTGTTC
	Reverse	GGCTATAAATGAACCTTCCAGAACA
AR6	Forward	TTTGTGTTCTGGAAGGTTCAATTAT
	Reverse	CTAAAGGCAAGGAAGACTGGATATG
AR7	Forward	GCCTATCATATCCAGTCTTCCTTGC
	Reverse	CTGTGTAAAGGTGGAGATGCAAGTG
AR8	Forward	CCCACTTGCATCTCCACCTTTACAC
	Reverse	AAGGCAAAATCACCCAGACAAGCAG
AR9	Forward	GTTTGTGTGTTTACCTGCTTGTCTG
	Reverse	AGAGCGCGCAGATGGGAGAGT
AR10	Forward	TCATGGCTTGCTCCTCAGTTTGTA
	Reverse	GGCGAGGGCAGGAGAGGCTAG
AR11	Forward	TCTGGAGCCCTGGCGCCTAAA
	Reverse	AGGGGGCGCTGGGAGGTGGA



Supplementary Figure 1. ER-stress up-regulated Bip and CHOP mRNA expressions in LAR TNBC and PCa cells. a, b Breast cancer cell lines MDA-MB-453, CAL-148, HCC2185 and MFM-223 (a), and prostate cancer cell lines C4-2 and LNCap cells (b) were treated with 1 μ M TG or 5 μ g/mL BFA for 24 h. Then the cells were collected for quantitative RT-PCR assay. The relative expression of each target was normalized to β -actin and expressed as mean $\pm$ SD. Student's t-test, ** p <0.01 vs. Control, n=3. Thapsigargin and Brefeldin A is abbreviated as TG and BFA, respectively.



Supplementary Figure 2. The relative AR and ATF4 mRNA expression in breast cancer and prostate cancer. a, b The relative mRNA expression of AR and ATF4 between breast tumors and normal breast tissues (a) and between prostate tumors and normal prostate tissues (b) in GEPIA dataset. * $p < 0.05$. Study the correlation of AR and ATF4 in breast cancer (c) and prostate cancer (d) in GEPIA dataset.

Supplementary Figure 3

Figure 1 a

MDA-MB-453

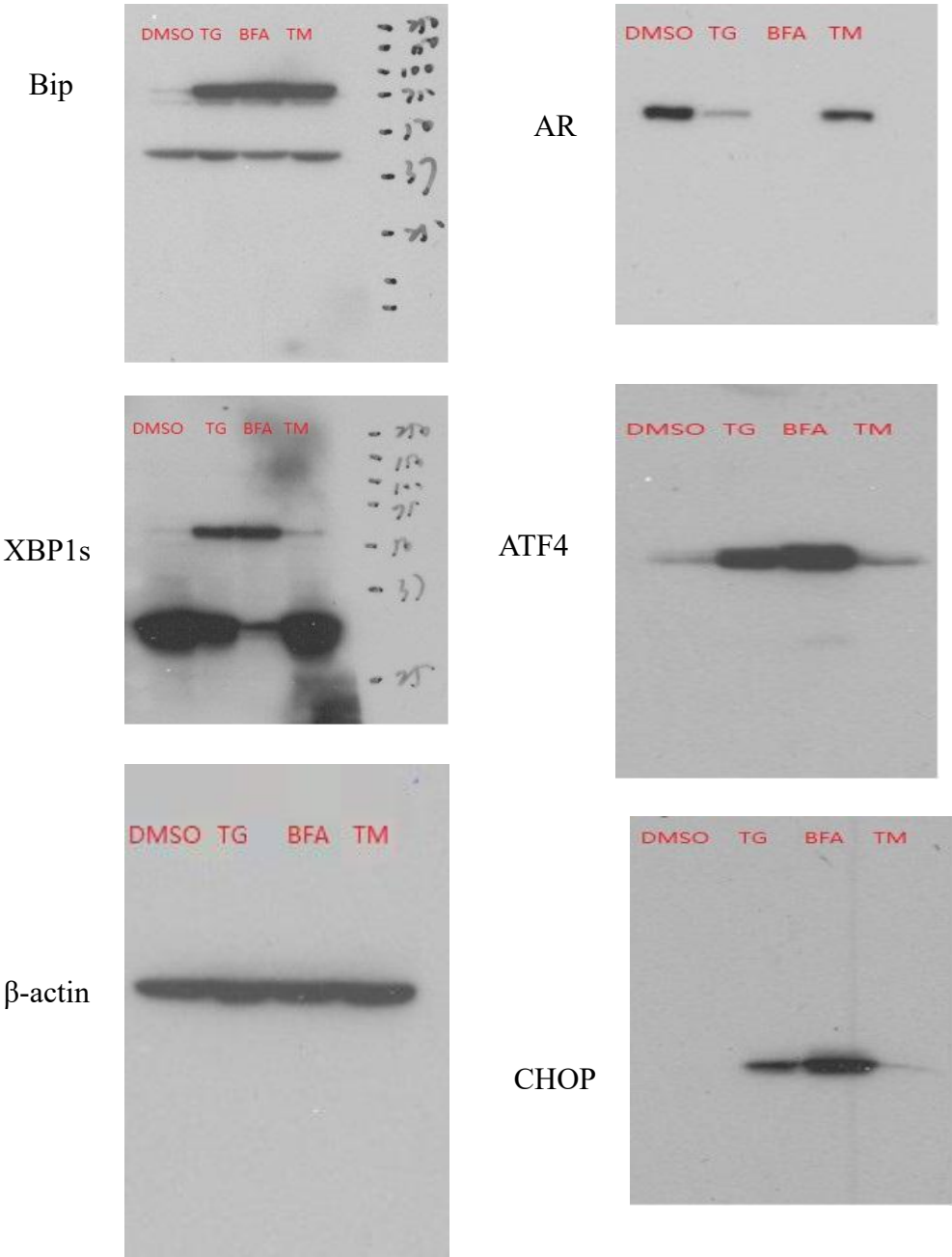


Figure 1 a

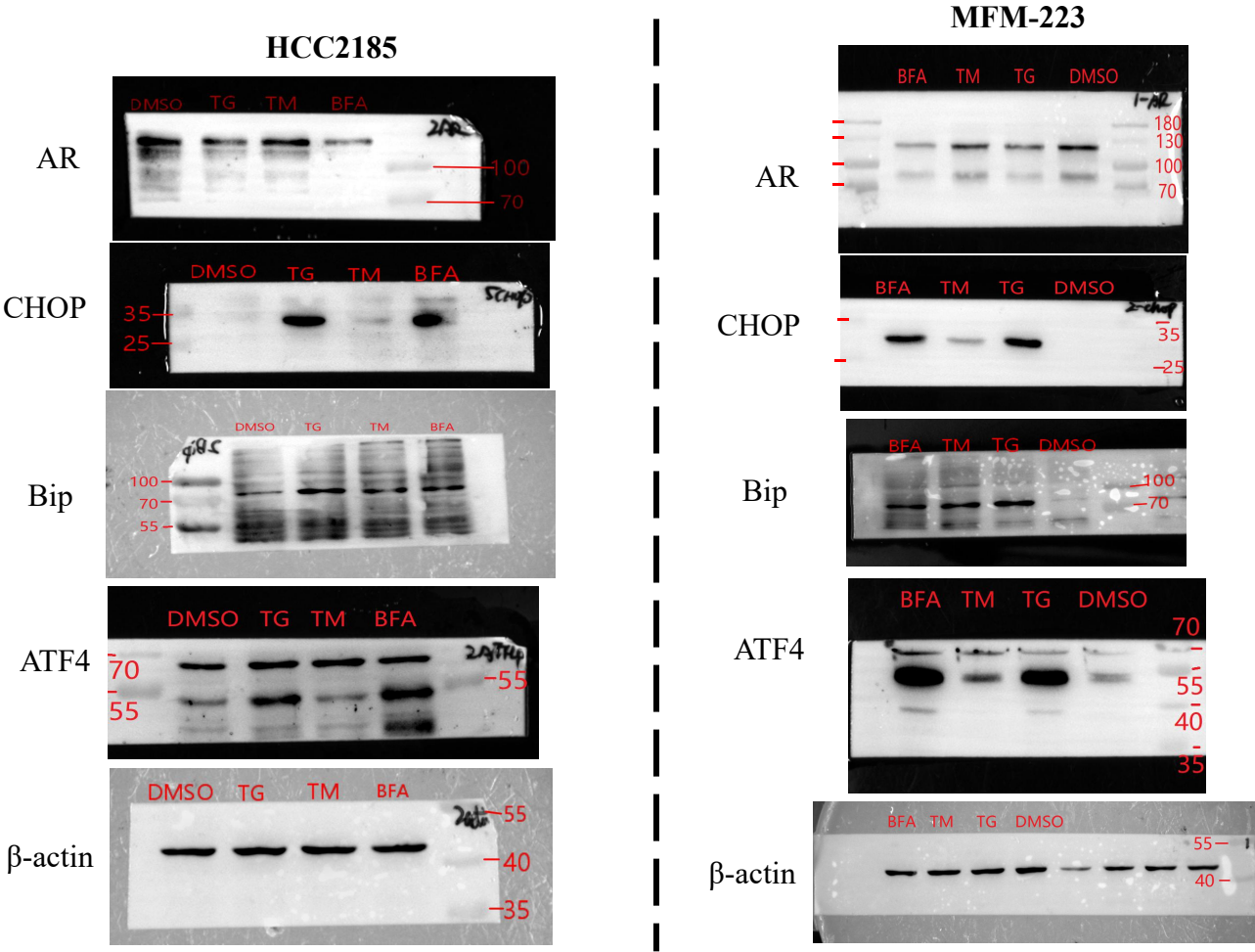


Figure1 b

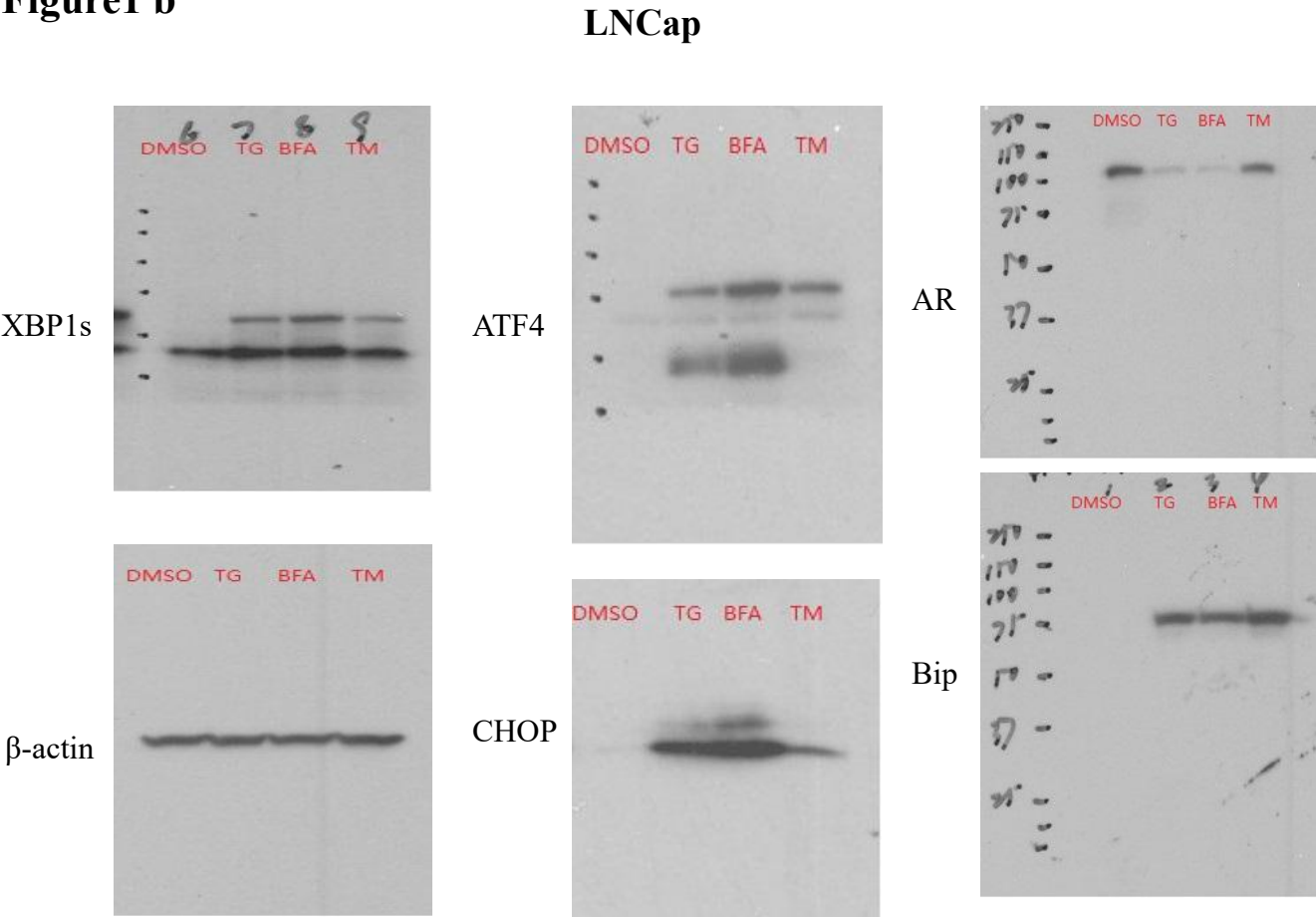


Figure1 b

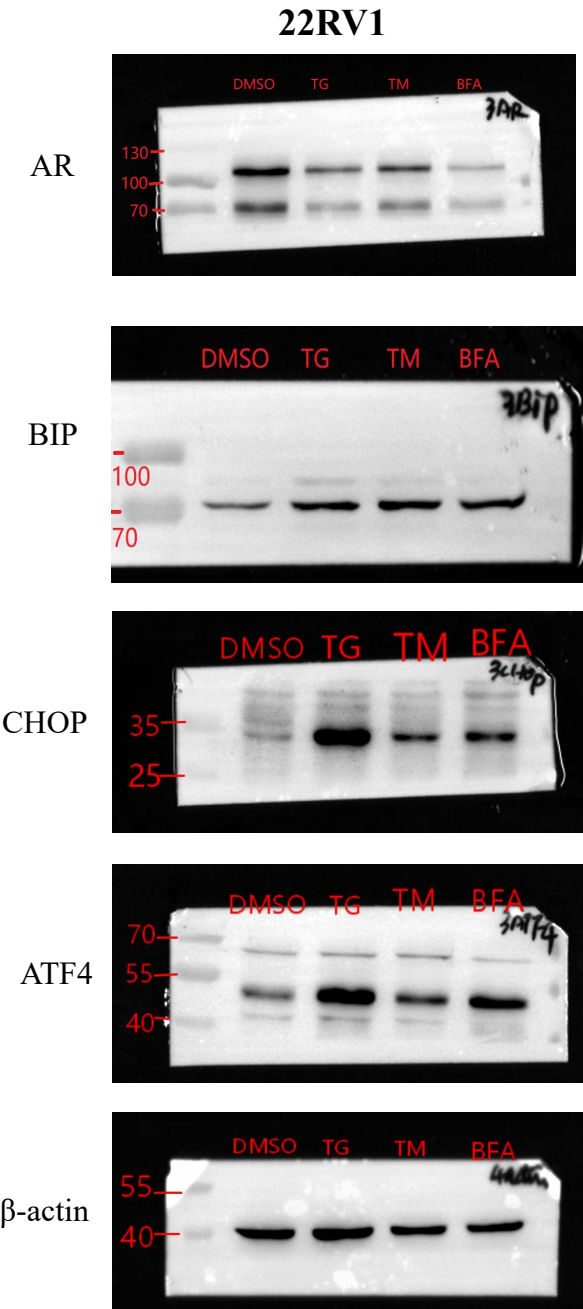


Figure1 c

MDA-MB-453

Dose

Time

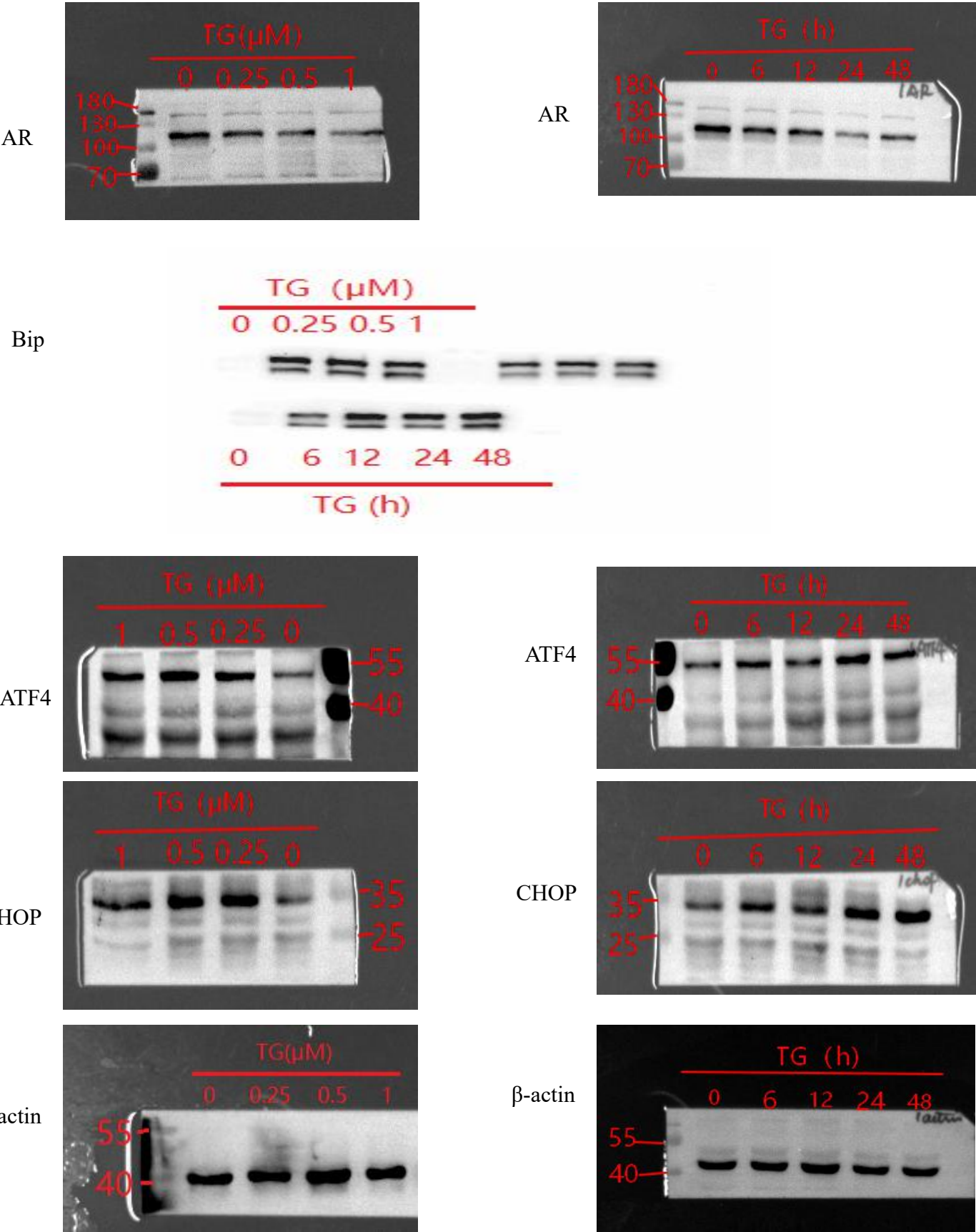


Figure1 c

CAL-148

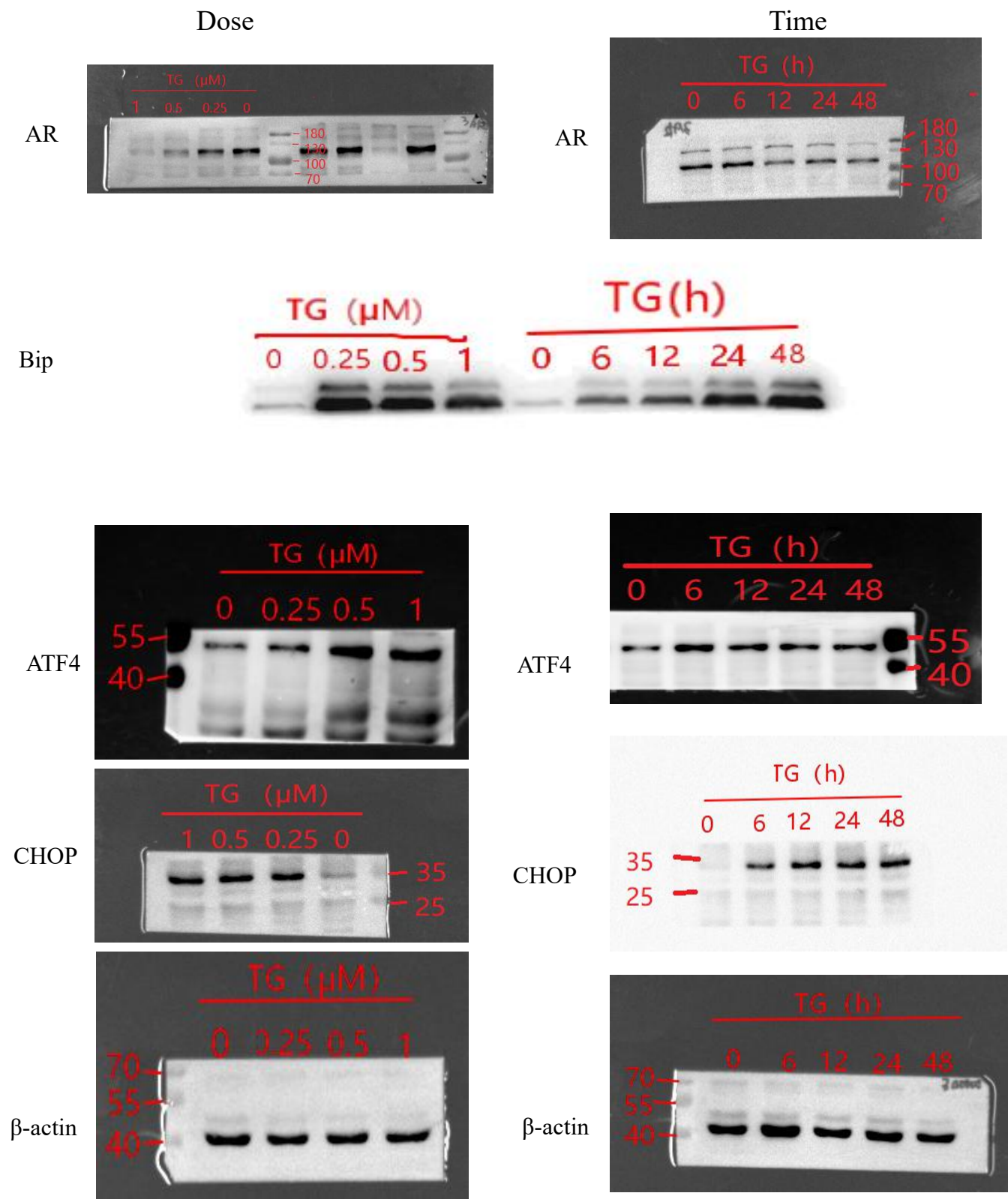
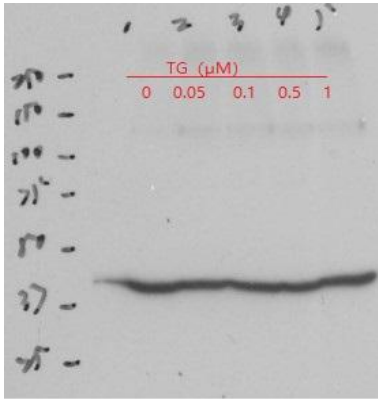
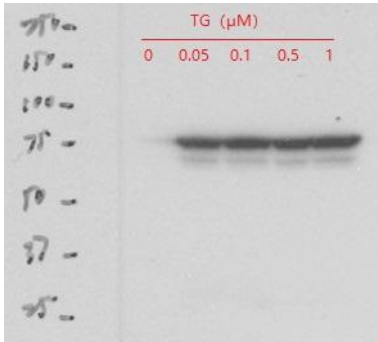
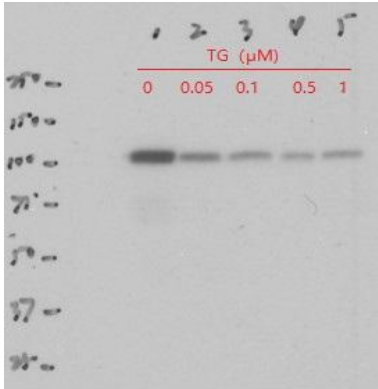


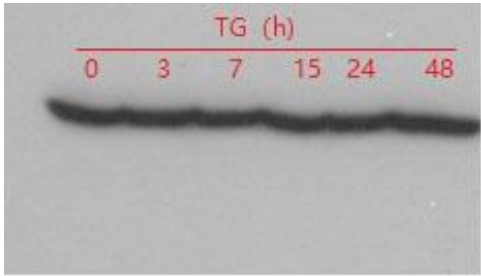
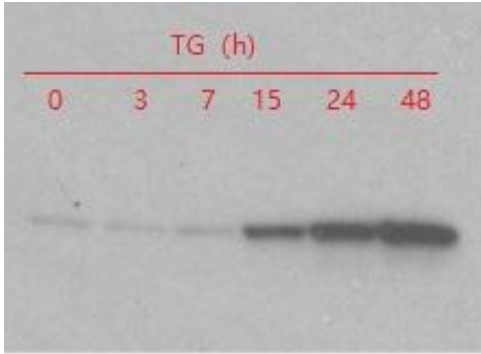
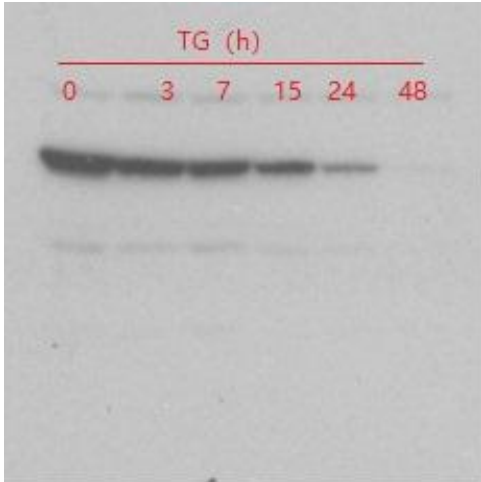
Figure1 d

LNCap

Dose



Time



AR

AR

Bip

Bip

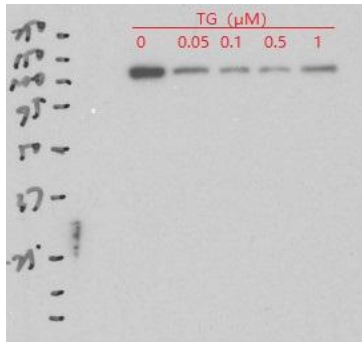
β-actin

β-actin

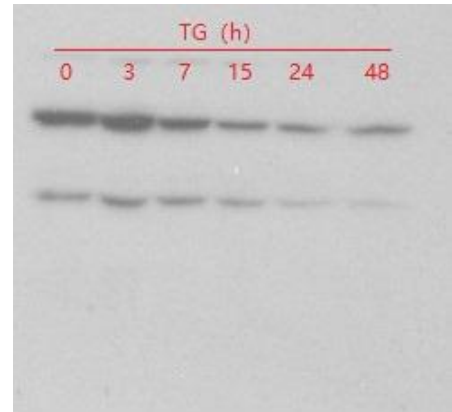
C4-2

Time

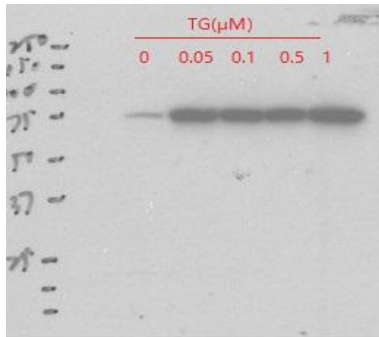
AR



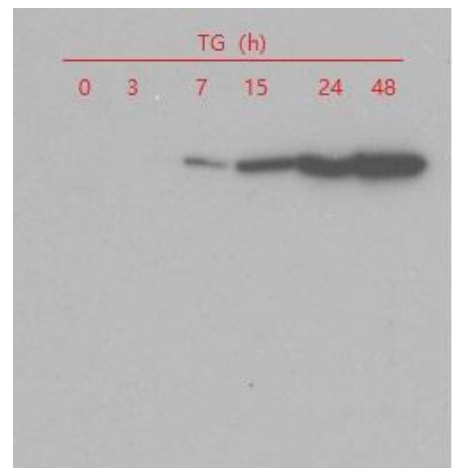
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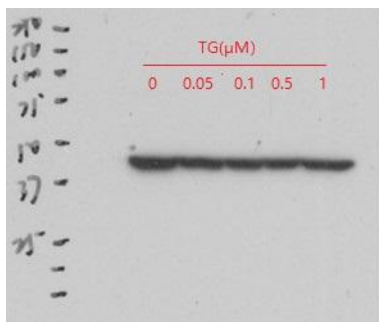
Bip



Bip



β -actin



β -actin

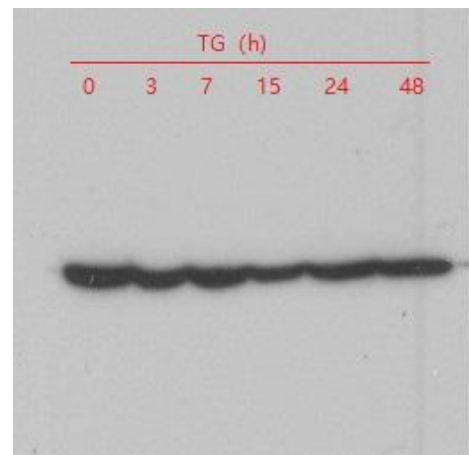


Figure2 c

MDA-MB-453

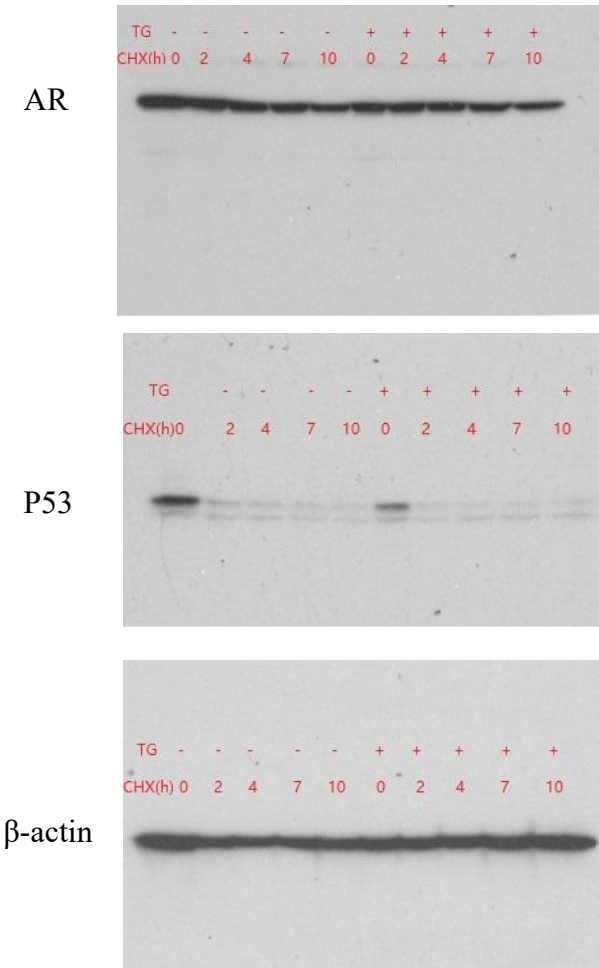


Figure2 d

CAL-148

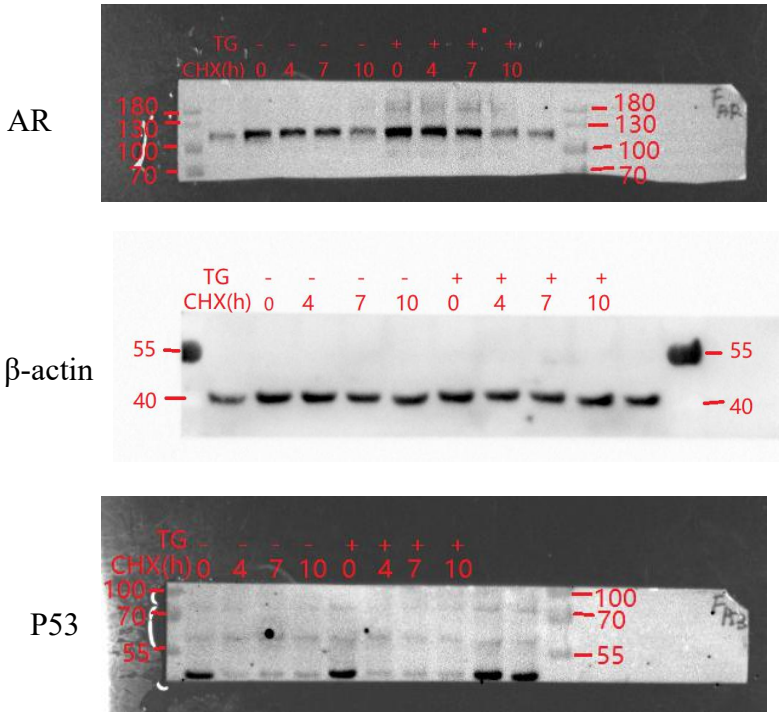


Figure2 e

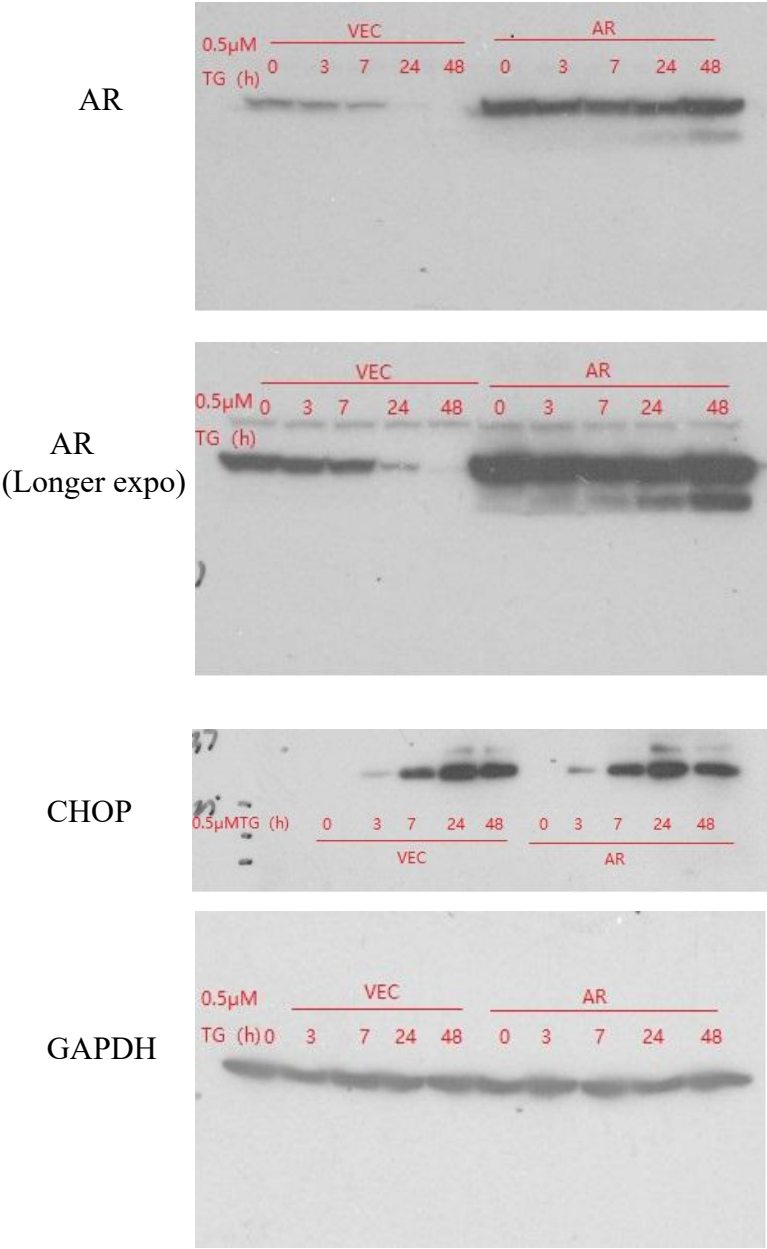


Figure 3 a

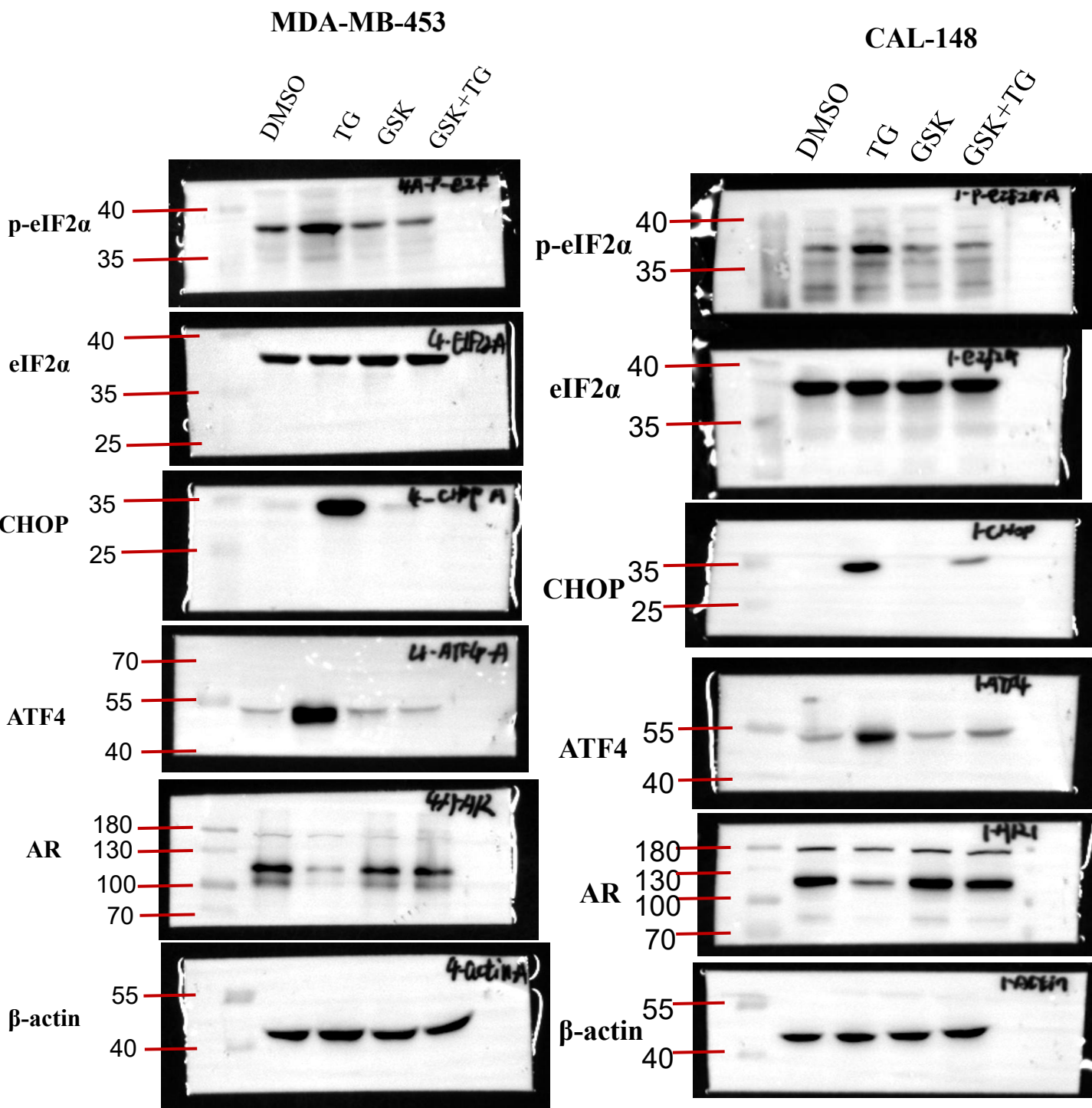


Figure 3 a

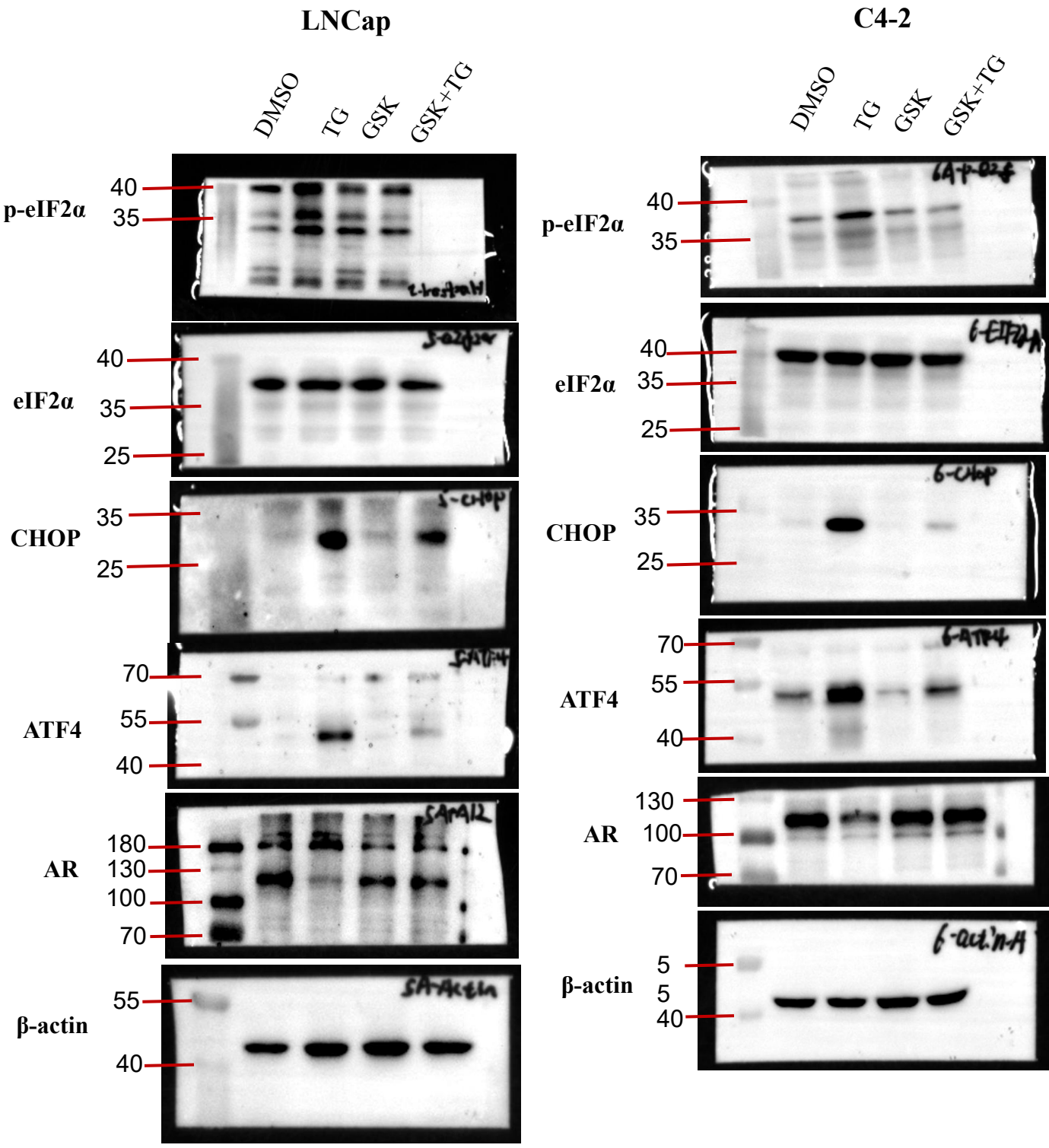


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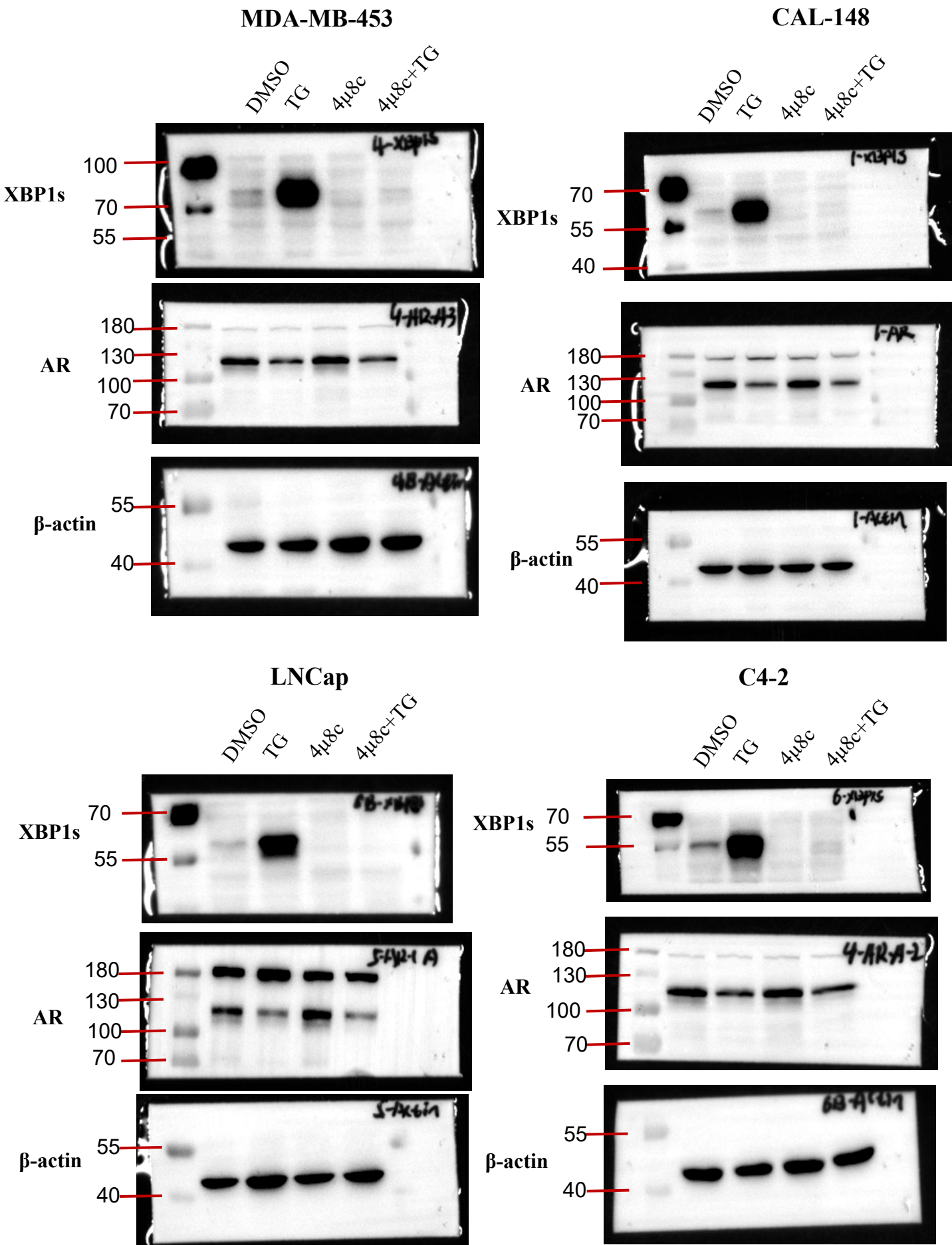


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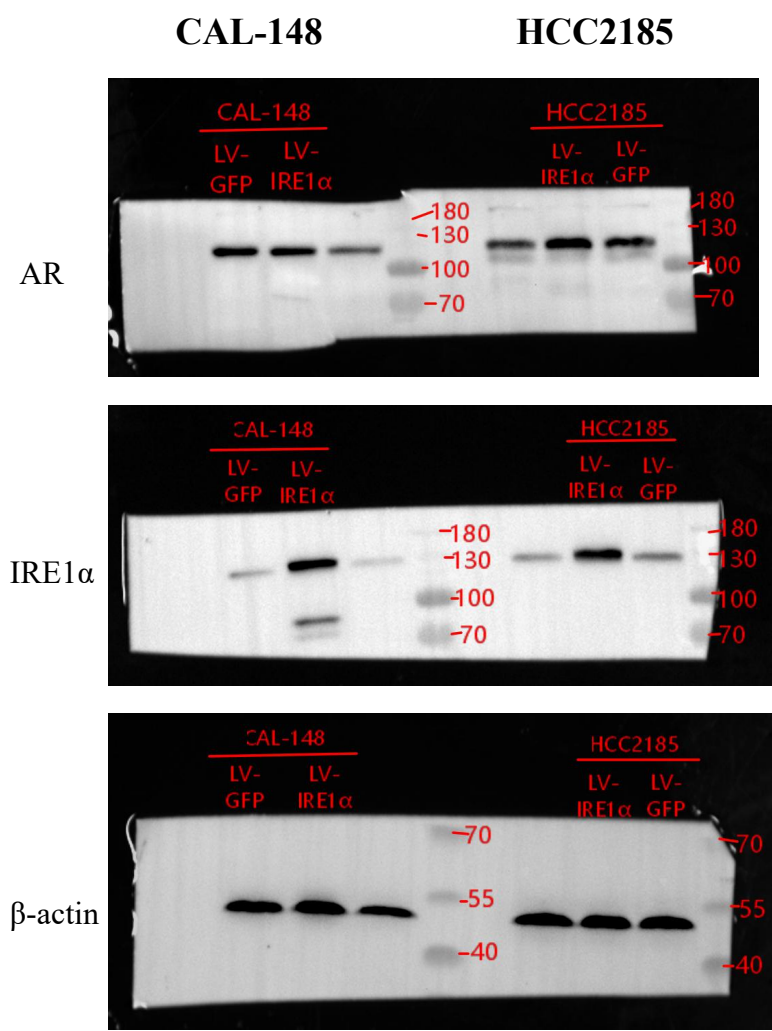


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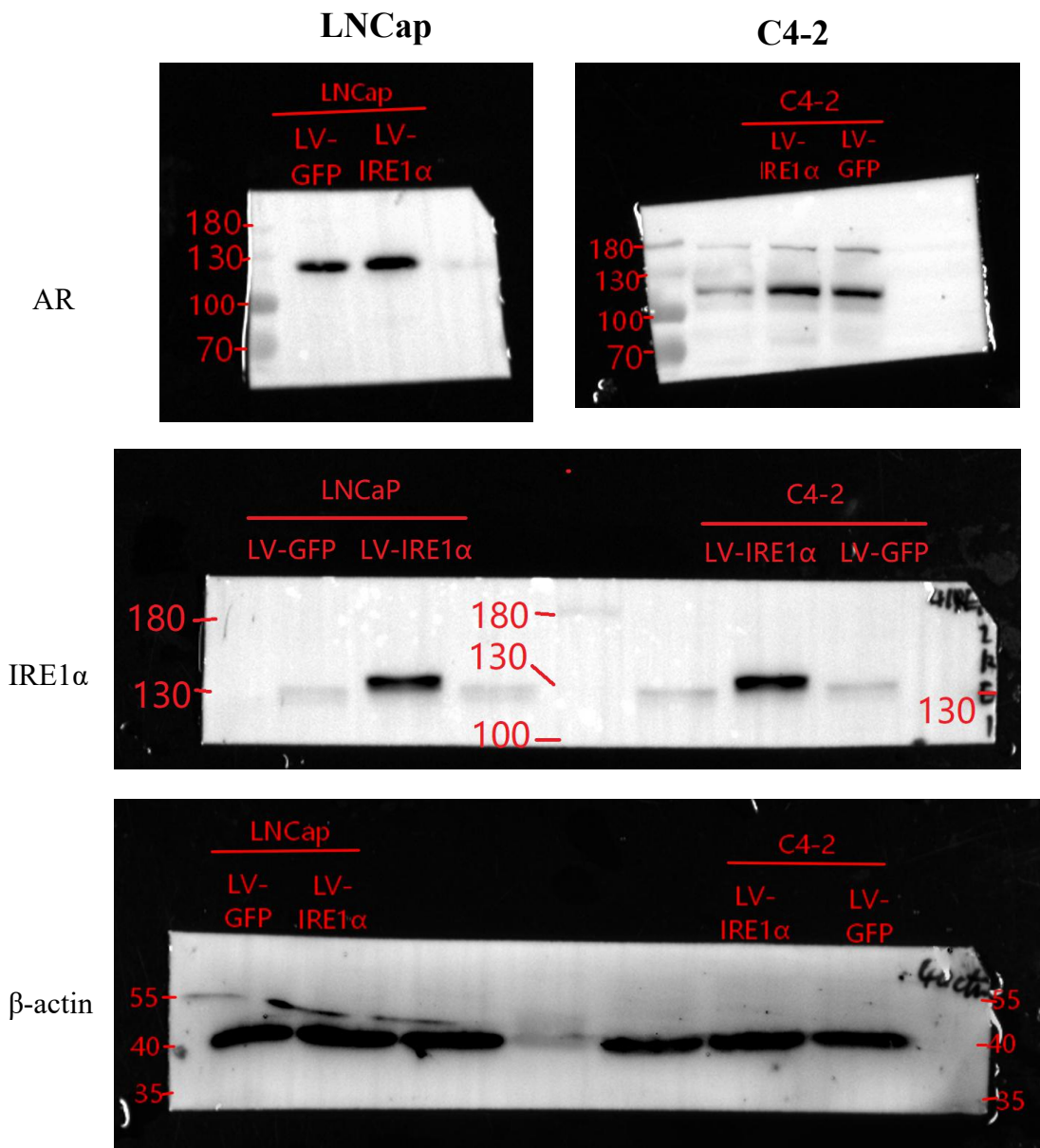
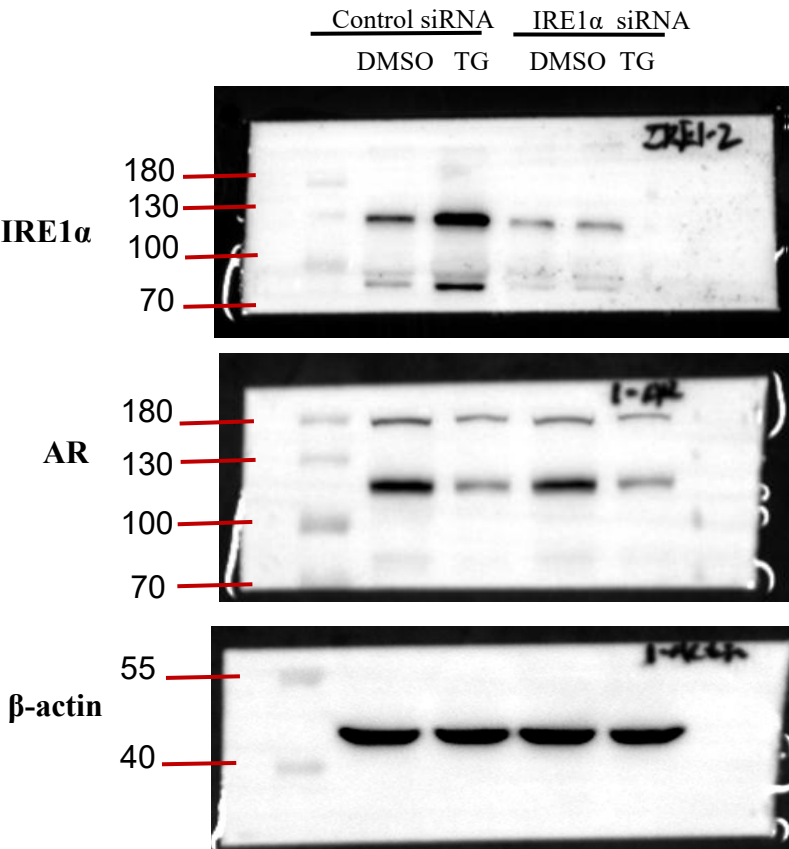


Figure 3 d

CAL-148



HCC2185

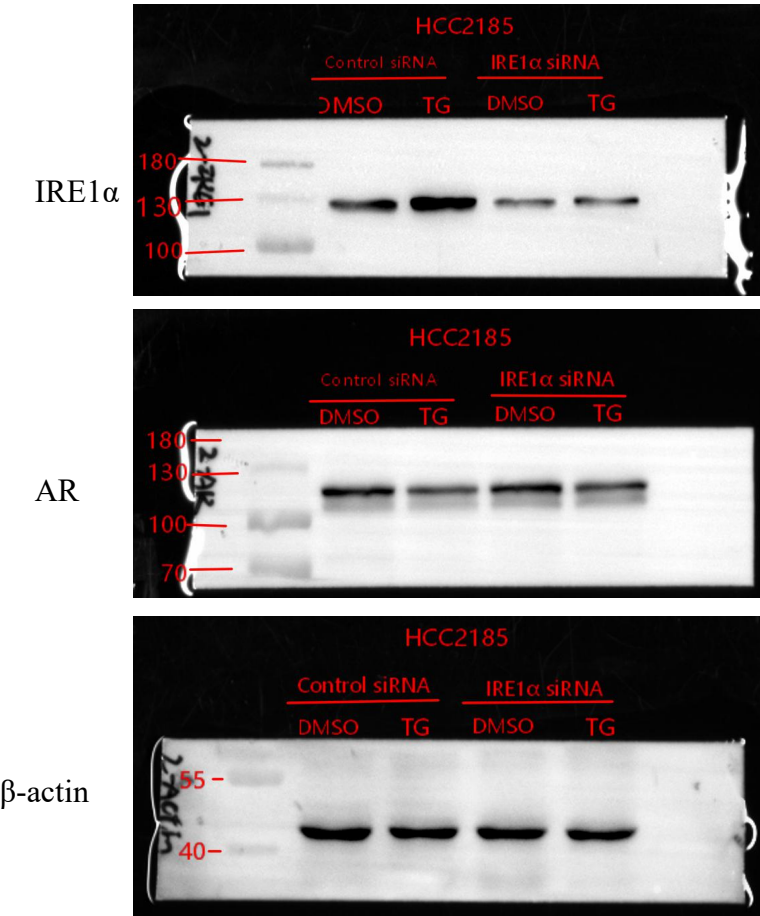


Figure 3 d

C4-2

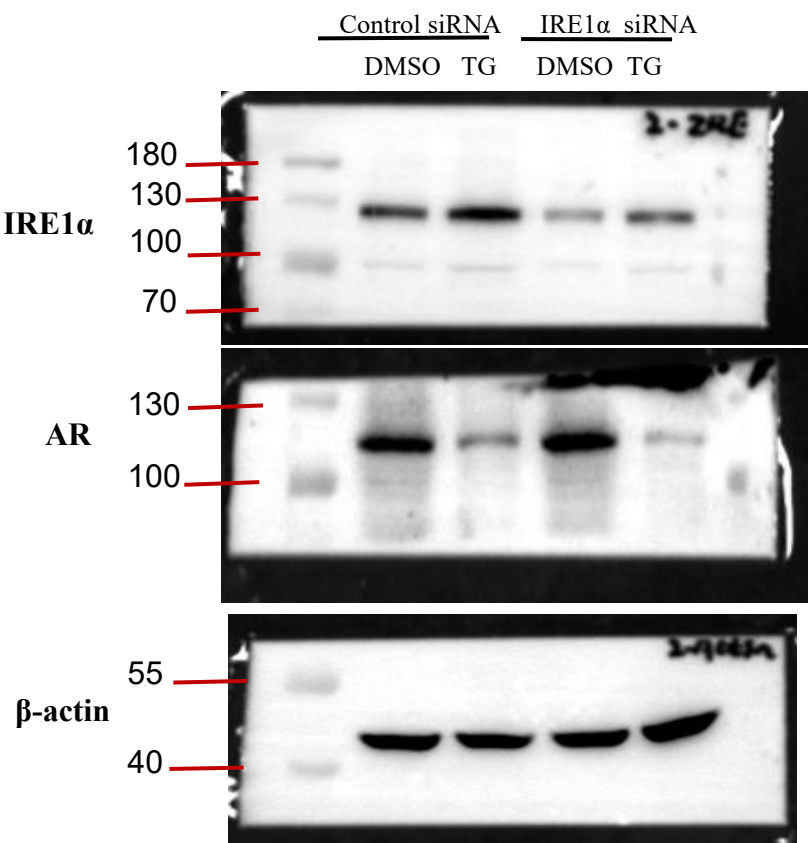


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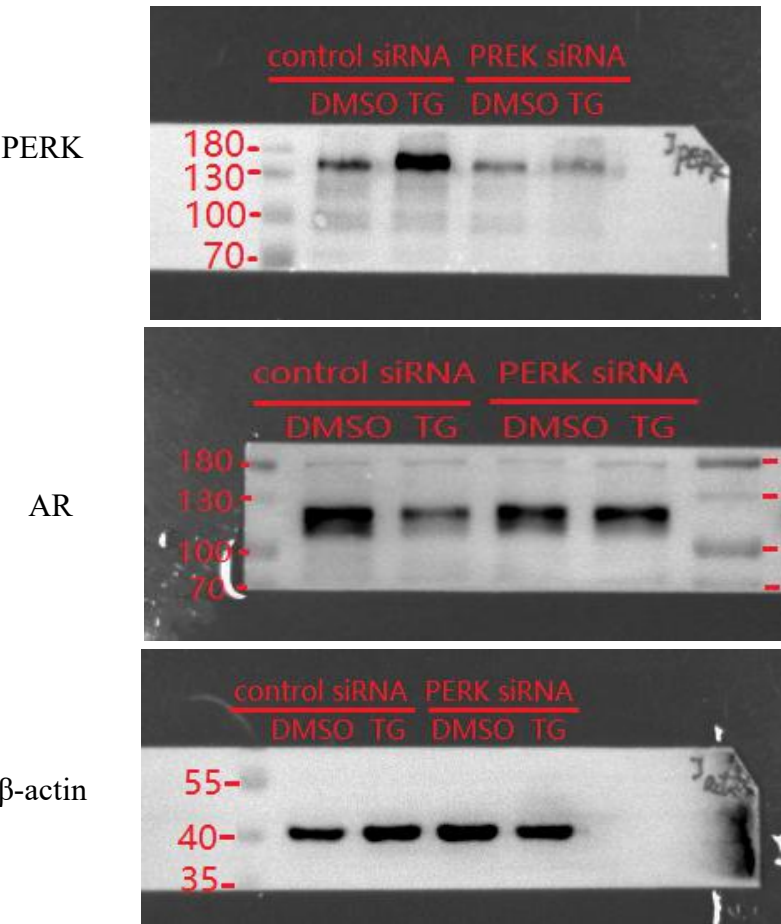


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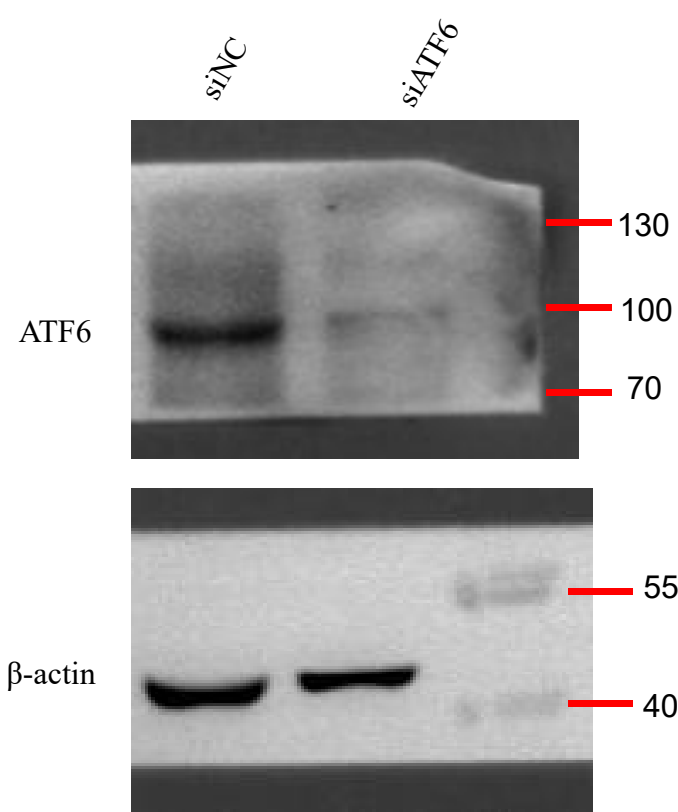


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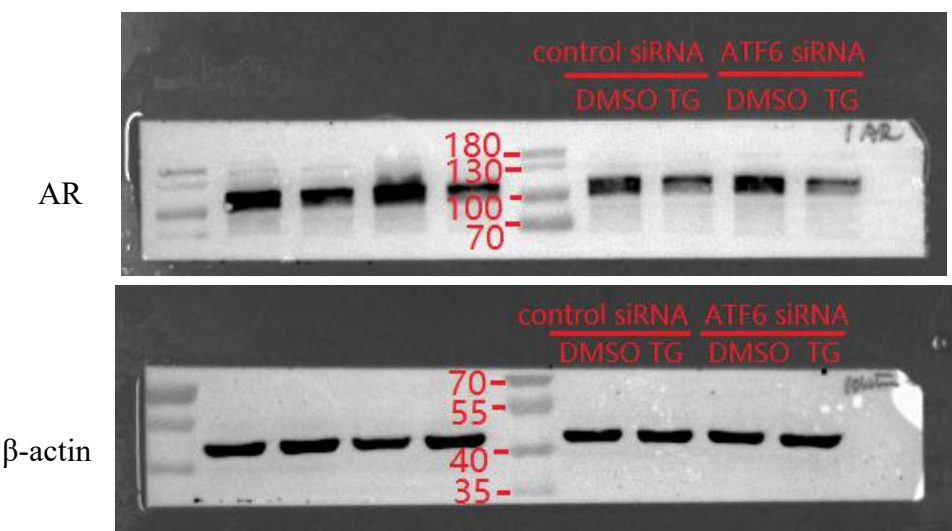
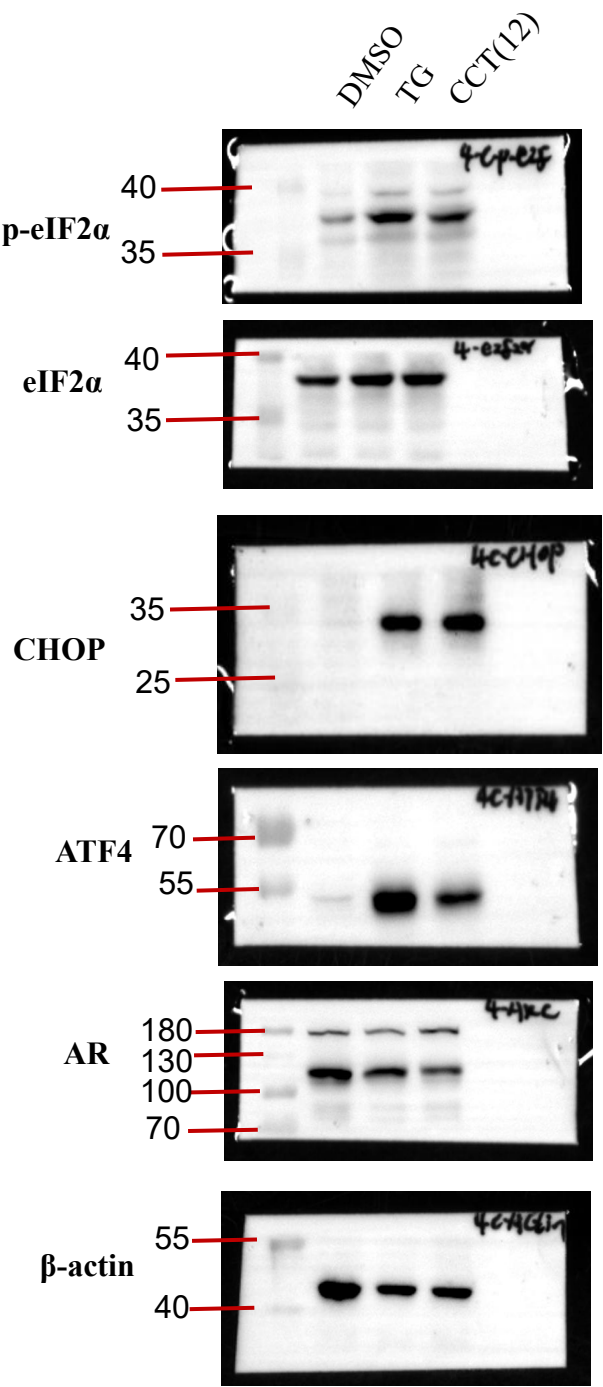


Figure 4 a

MDA-MB-453



CAL-148

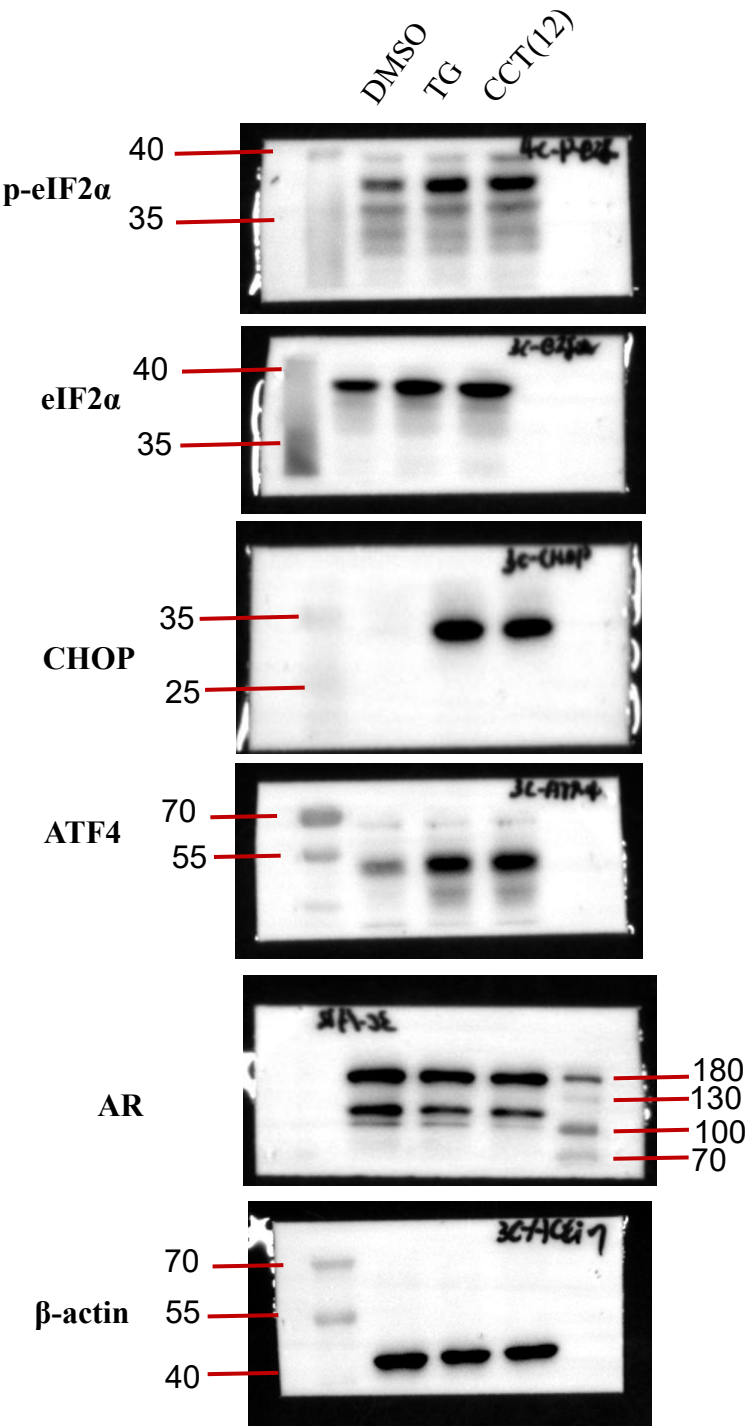


Figure 4 b

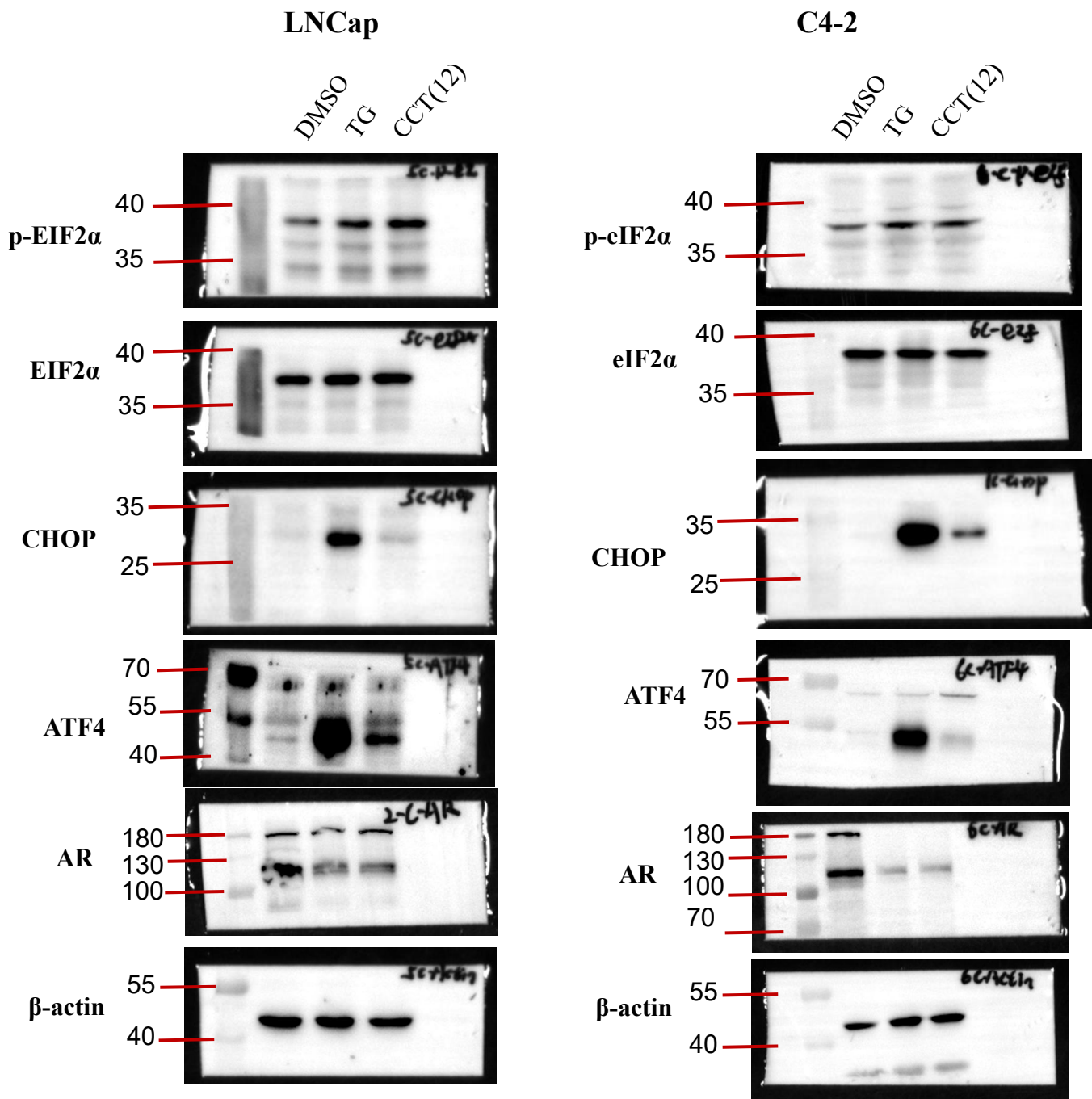


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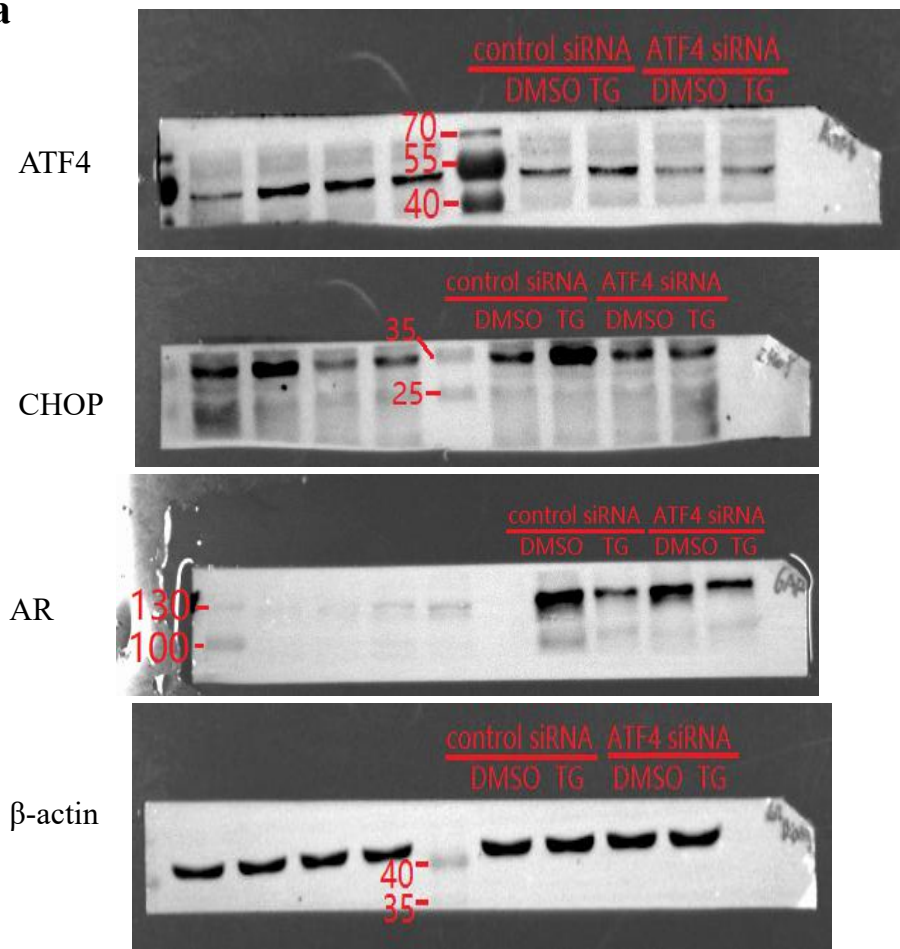


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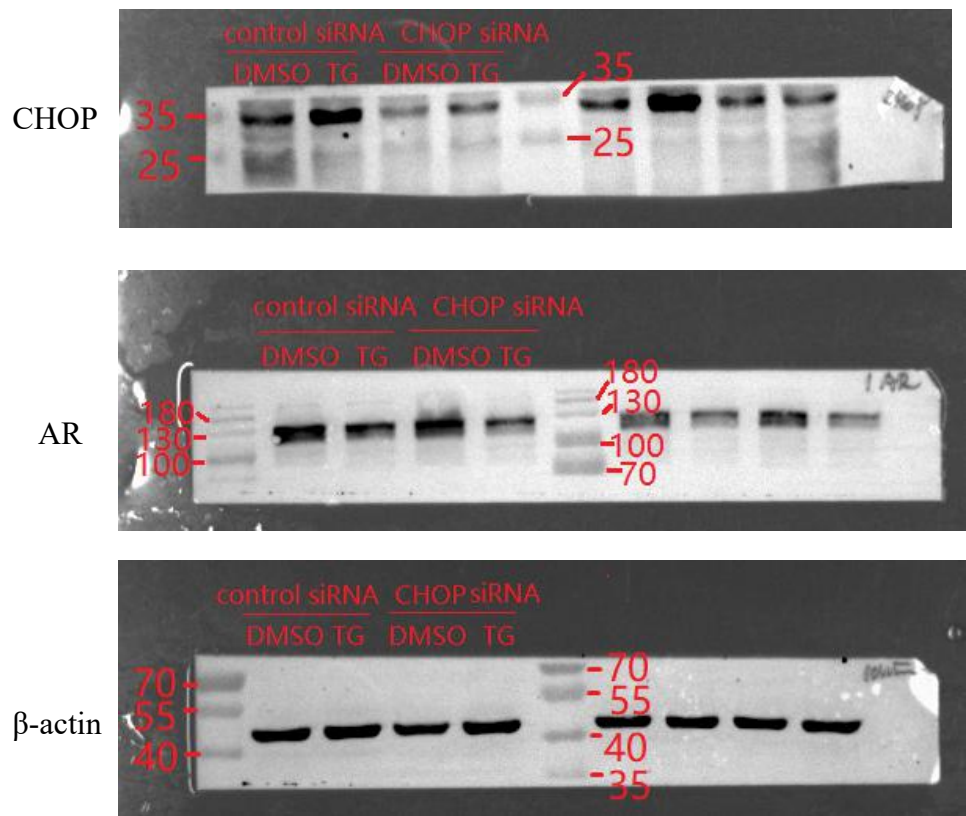


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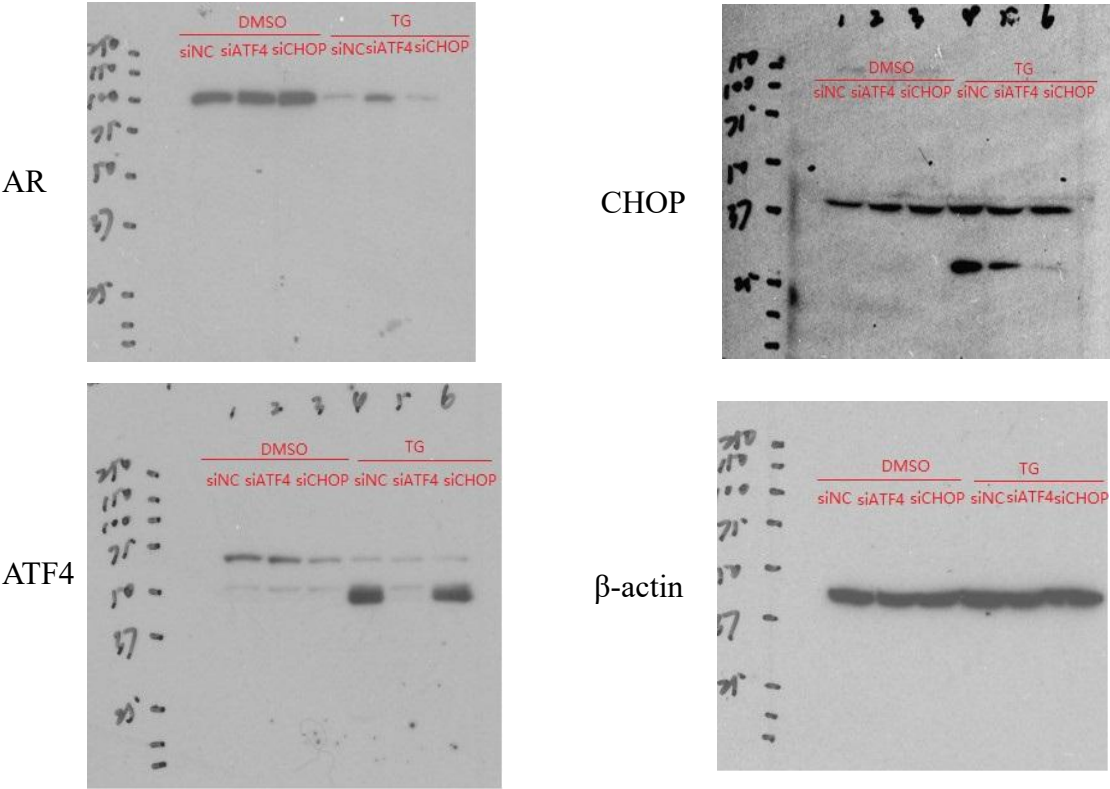


Figure 5 d

HCC2185

CAL-148

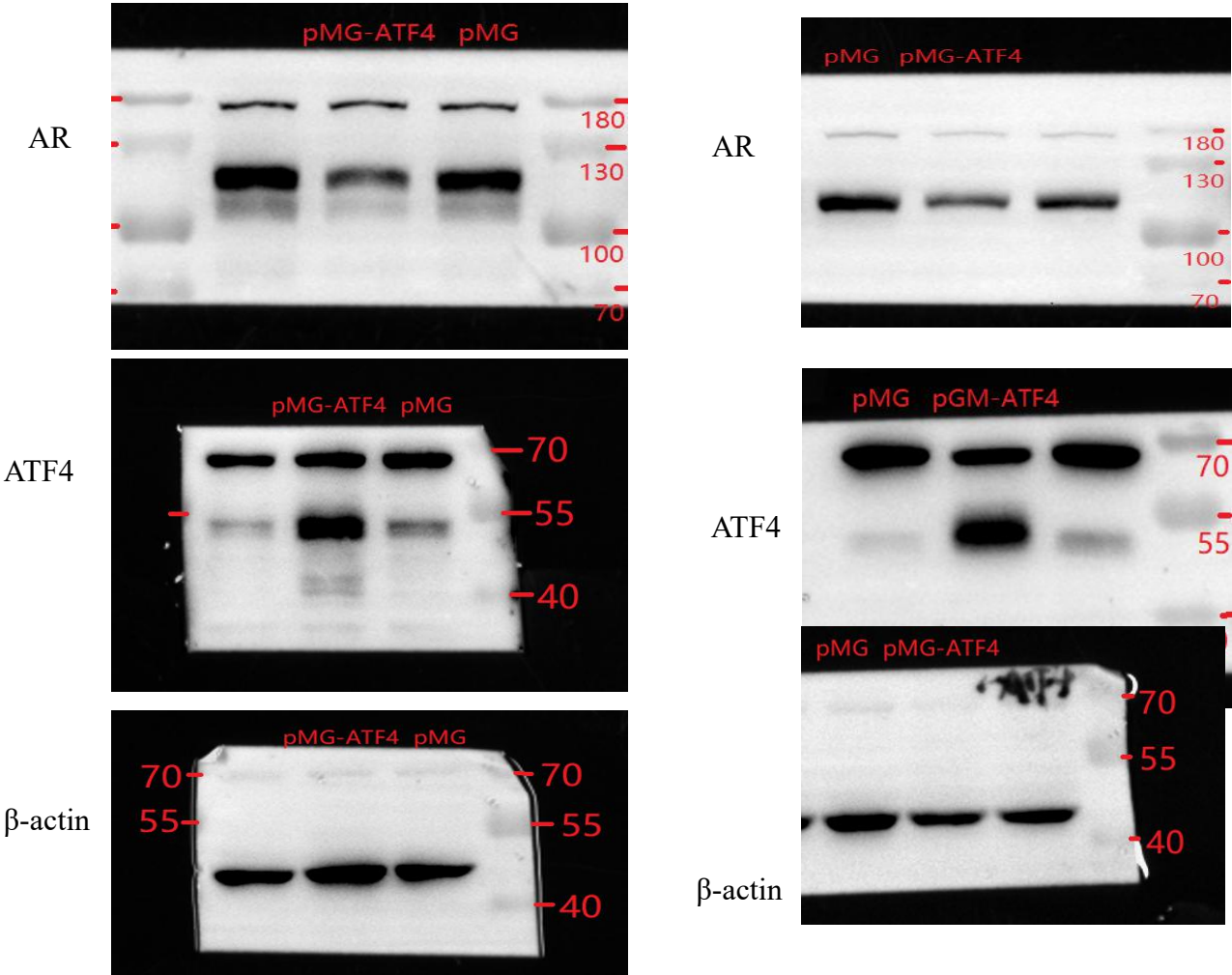


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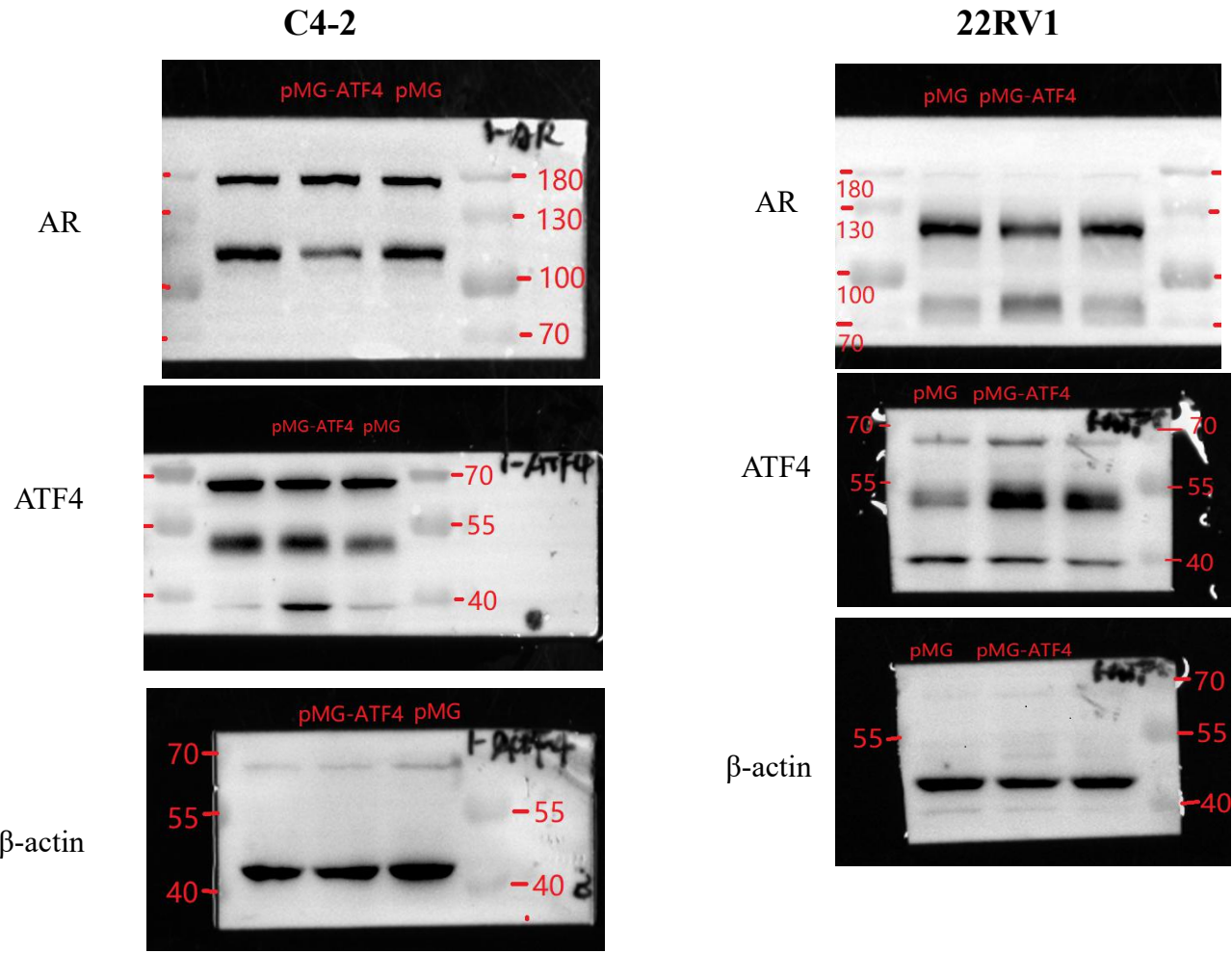


Figure 6 b

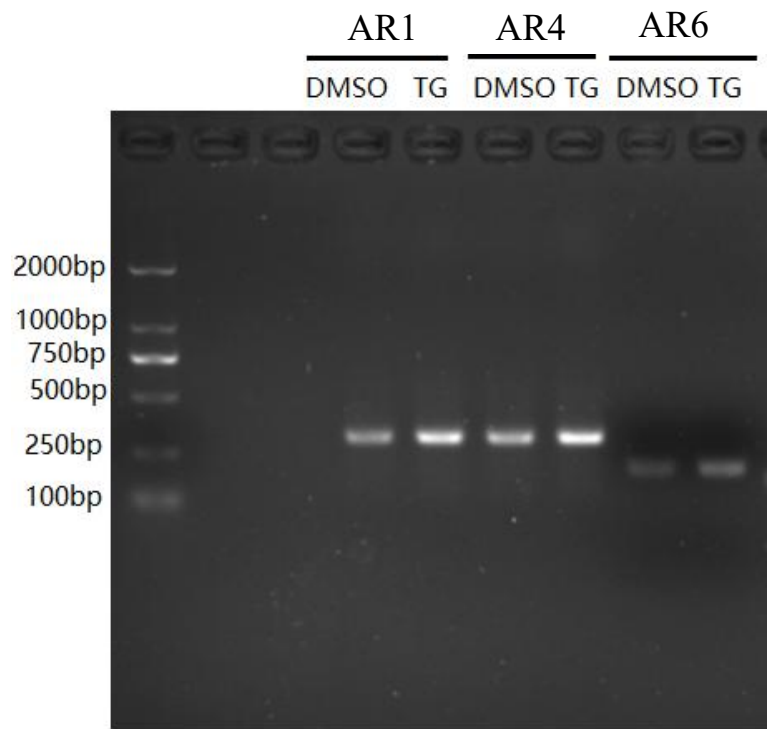


Figure 8 e

