

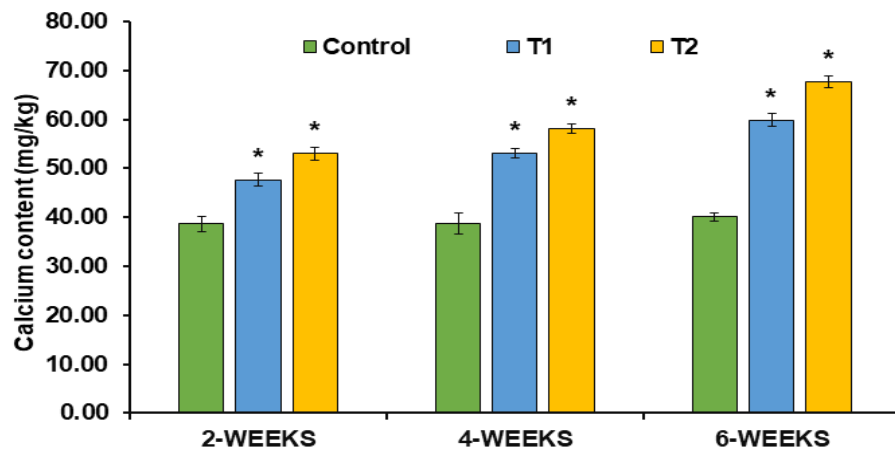
**Unveiling the crosstalk between Unfolded Protein Response and Apoptosis in Triclosan
induced hepatotoxicity in *Labeo rohita***

Name of Gene	Primer Sequence	Product length	Tm (°C)	Accession number
<i>CHOP</i>	(F) ACAGGAGGACACGTAGAG (R) CACTAAACCTCCCTTTCTCC	129 bp	54.89 55.06	NM_001082825.1
<i>PERK</i>	(F) GGAACAGGGATAGAGAGAGT (R) CAGCTTACGAGGTGTCAT	657 bp	55.05 54.00	BC122104.1
<i>GADD34</i>	(F) AACCTTTATTCGTCCAGTCC (R) TTCCTCCCAACACAAATGAA	193 bp	55.07 55.05	NM_001082921.1
<i>eIF2α</i>	(F) TGTGAGTCTGTGTTTCGATTT (R) ATCCCAAACCTTCCATCTGTC	120 bp	54.96 55.02	NM_001025170.2
<i>GRP78</i>	(F) TCTACAAGAATGGACGTGTT (R) TTTTCAGGGTTGGATGTTAGA	139 bp	54.34 54.73	AW421612.1
<i>ATF4</i>	(F) CCAGAGCTAAACCATACTCC (R) TACAAGCACTACAGCATCAG	490 bp	54.94 55.20	NM_213233.1
<i>BAX</i>	(F) GGCAATGACCAGATACTTGA (R) TCGGCTGAAGATTAGAGTTG	232 bp	55.13 54.91	AF231015.1
<i>BCL-2</i>	(F) TTCAAAGCGAGGATATGTGT (R)ATCAGGCATTCAGAGTTGTT	147 bp	54.77 54.93	AY695820.1
<i>CASPASE-9</i>	(F) GAAATACAGAGCAAGGCAAC (R) CAGTGGTACTAATCGTGGAG	273 bp	54.97 55.02	MG958002.1
<i>CASPASE-3</i>	(F) GAACTTTGATCGCAGGACAG (R) TAGAGGAAGTCTGCTTCAACCG	432 bp	56.83 59.77	AB047003.1
<i>APAF1</i>	(F) ATGAACTCATACCATGCGG (R) ATCTTCTTCAGATTGCCTCC	155 bp	55.05 54.81	AF251502.1
<i>β-actin</i>	(F) GTATTGTCACCAACTGGGAT (R) ATACCGCAAGATTCCATACC	601 bp	55.03 54.99	AF025305.1

Supplementary Table-1: Primer pair sequences of ER stress and Apoptotic genes for qRT-PCR.

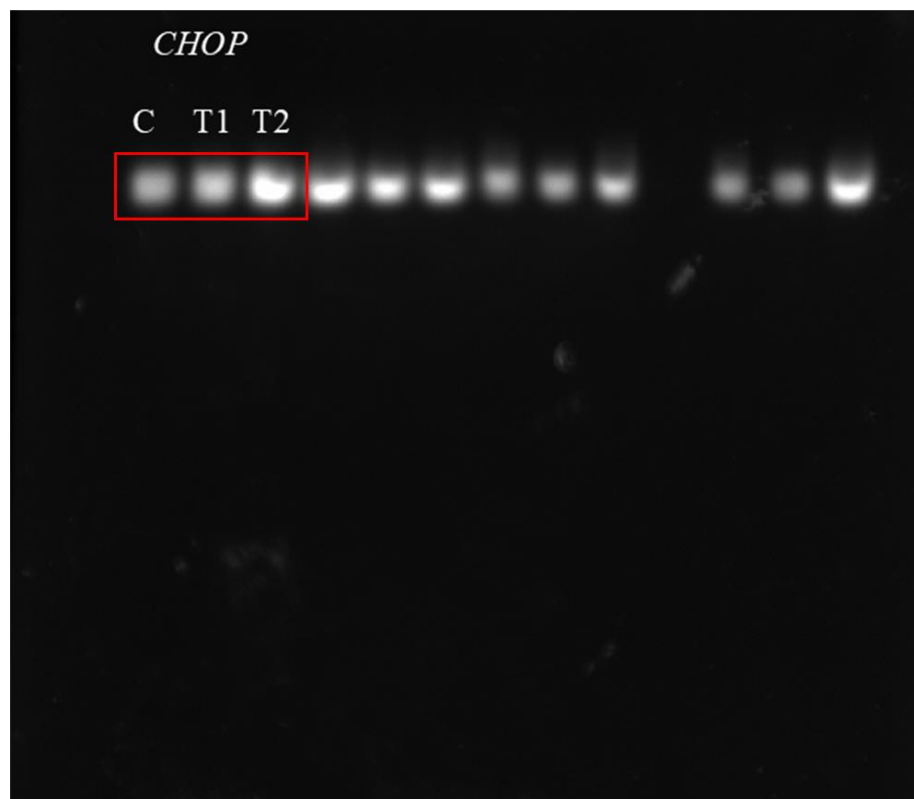
Physicochemical Parameters	Groups	Exposure Period		
		2 Weeks	4 Weeks	6 Weeks
Alkalinity (as CaCO ₃ mg l ⁻¹)	Control	74.64±0.01	73.75±0.01	77.16±0.01
	T1	74.13±0.01	75.13±0.01	77.67±0.01
	T2	75.50±0.05	76.79±0.01	74.66±0.08
DO (mg l ⁻¹)	Control	7.38±0.16	7.05±0.02	6.81±0.11
	T1	6.44±0.02	7.24±0.01	6.85±0.01
	T2	7.50±0.01	6.44±0.01	6.50±0.091
Hardness (as CaCO ₃ mg l ⁻¹)	Control	73.31±0.01	74.07±0.01	74.49±0.01
	T1	73.77±0.01	75.13±0.01	74.96±0.68
	T2	73.46±0.01	74.78±0.01	74.23±0.01
pH	Control	7.19±0.01	7.17±0.01	7.21±0.01
	T1	7.27±0.01	7.10±0.11	7.18±0.02
	T2	7.24±0.01	7.13±0.17	7.04±0.12
Temperature (°C)	Control	24.60±0.15	23.44±0.02	24.48±0.01
	T1	23.16±0.01	23.71±0.11	23.87±0.03
	T2	23.20±0.01	23.64±0.017	23.73±0.12

Supplementary Table-2. Physicochemical Parameters assessed during the experiment.

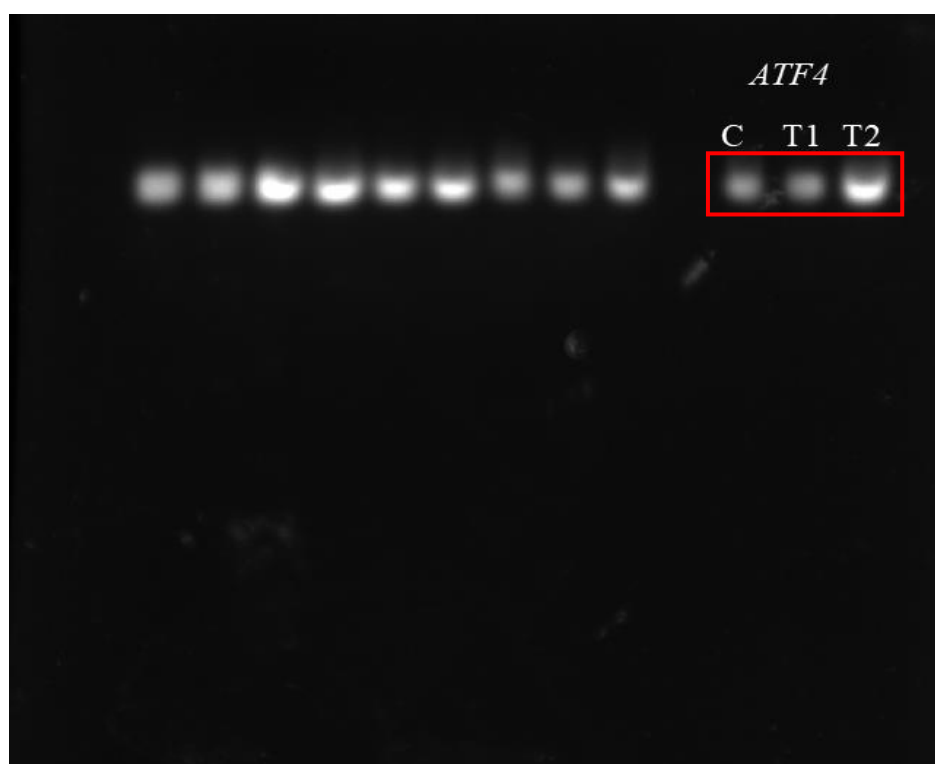


Supplementary Fig.1. Intracellular Calcium content in the liver tissues of *L. rohita* after 2, 4 and 6 weeks of exposure. (mean $\pm$ S.E.M., n=3 fish which were taken in triplicates); [*symbol represents the significant ($p < 0.05$) difference from the control, analyzed using one-way ANOVA with Tukey's post hoc test].

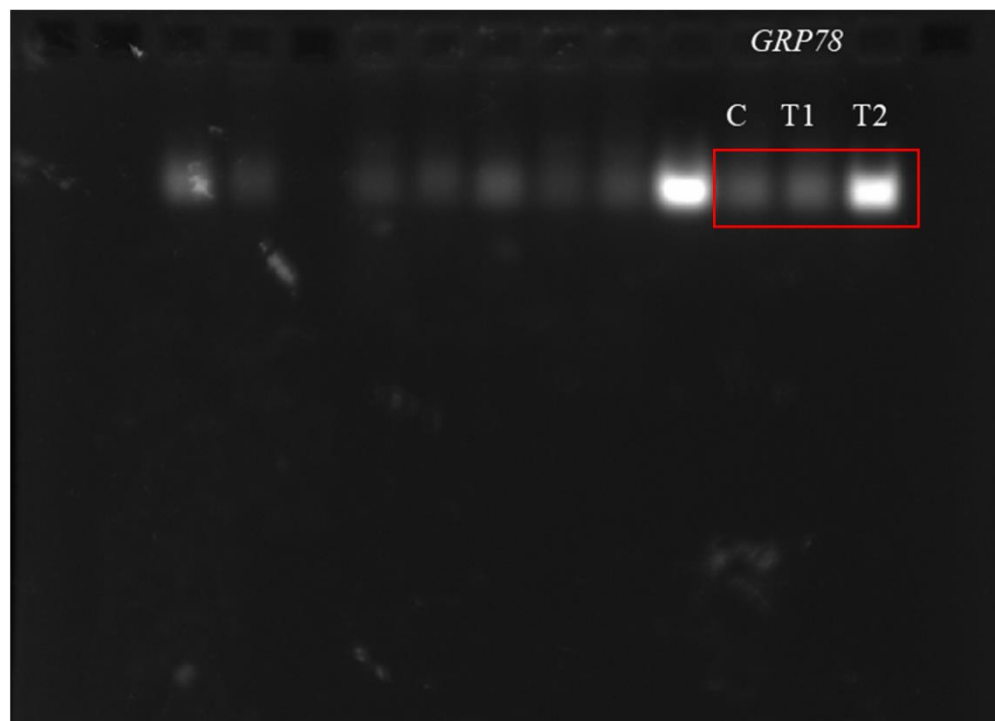
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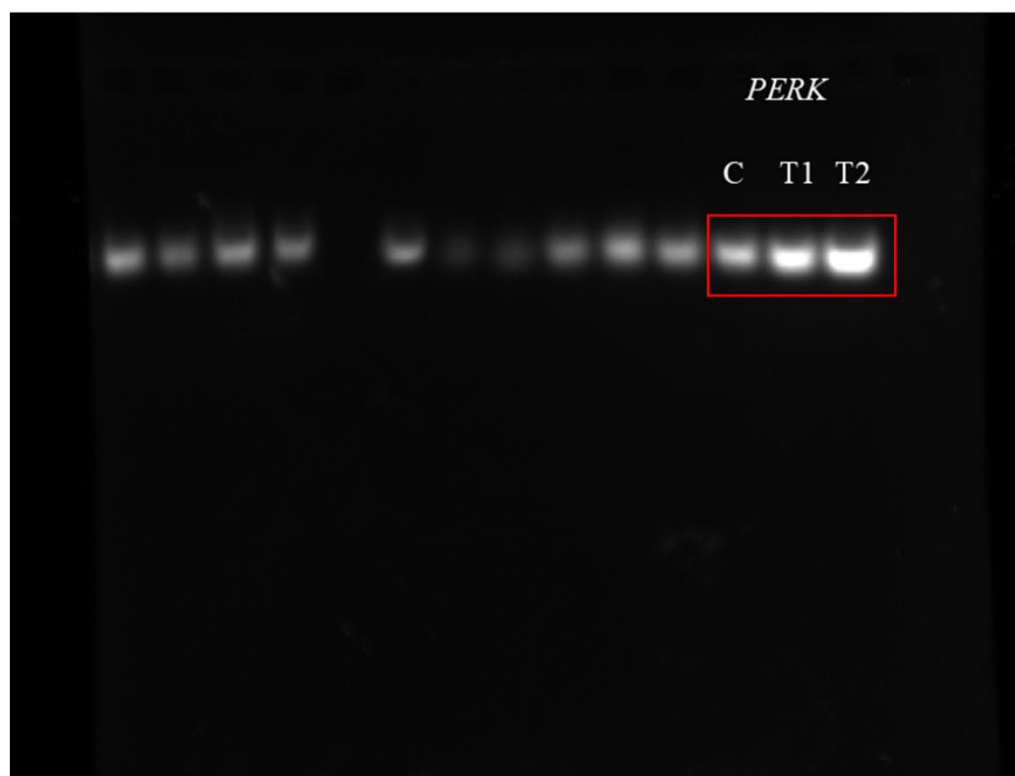
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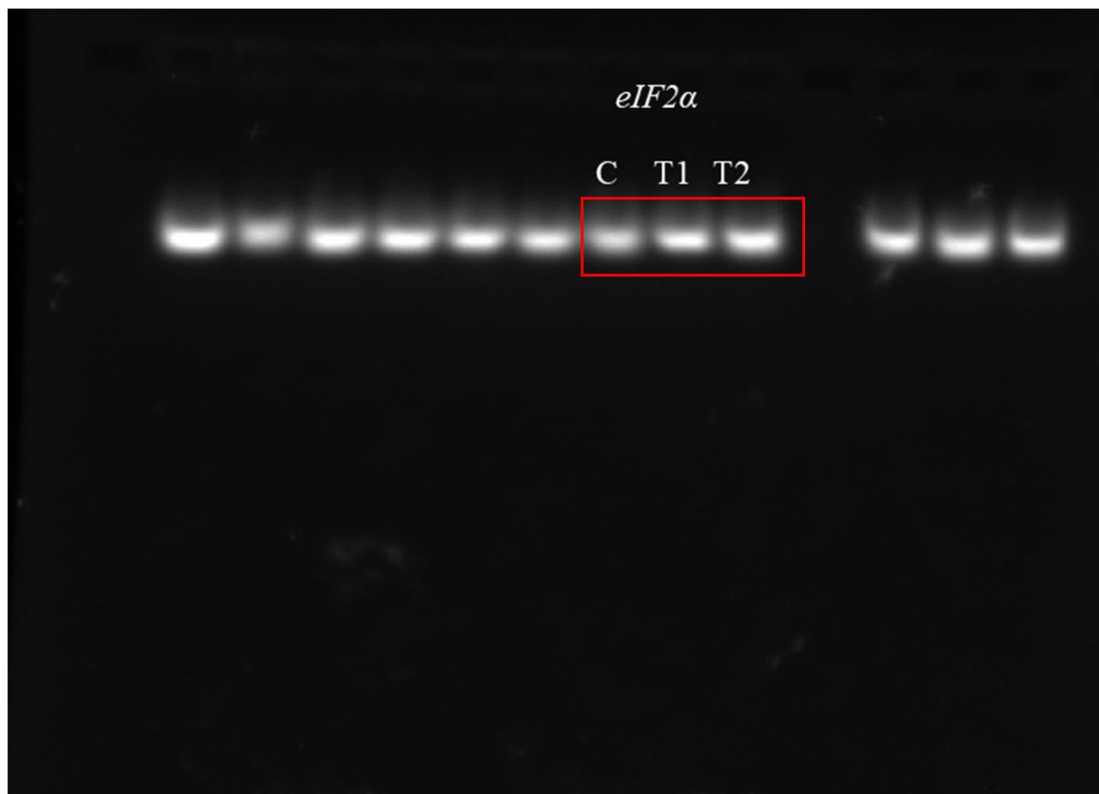
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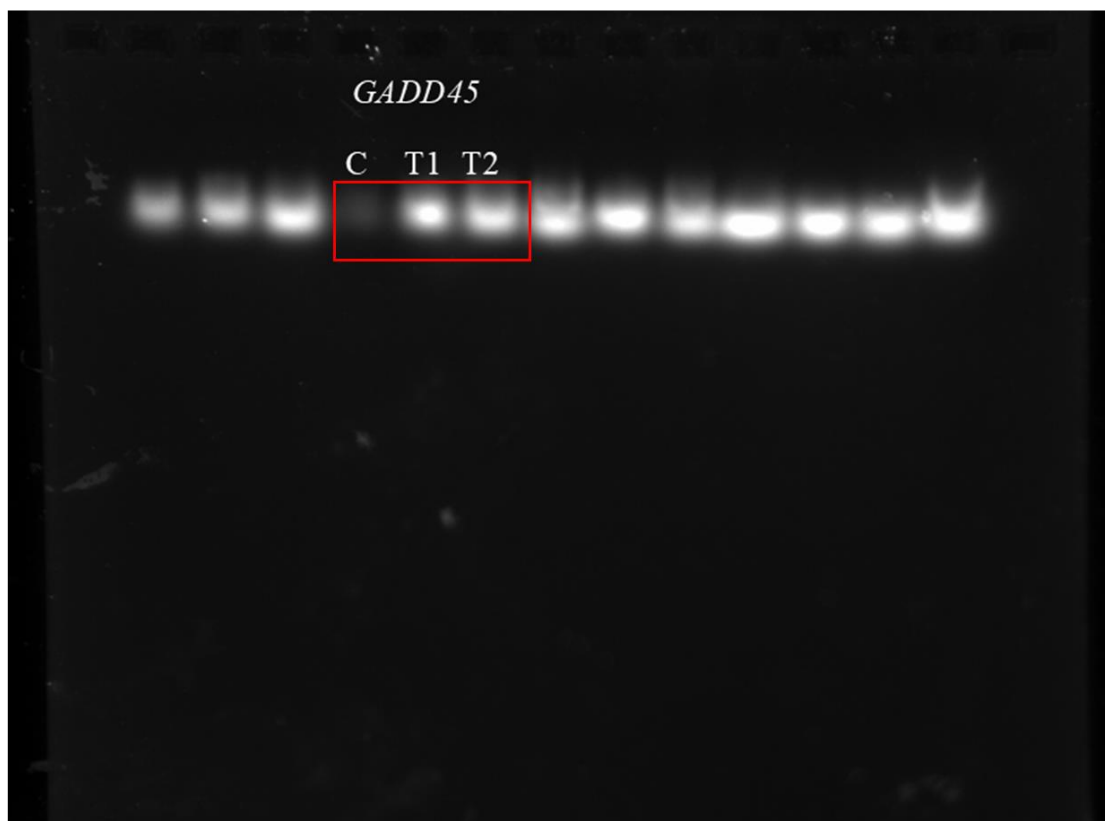
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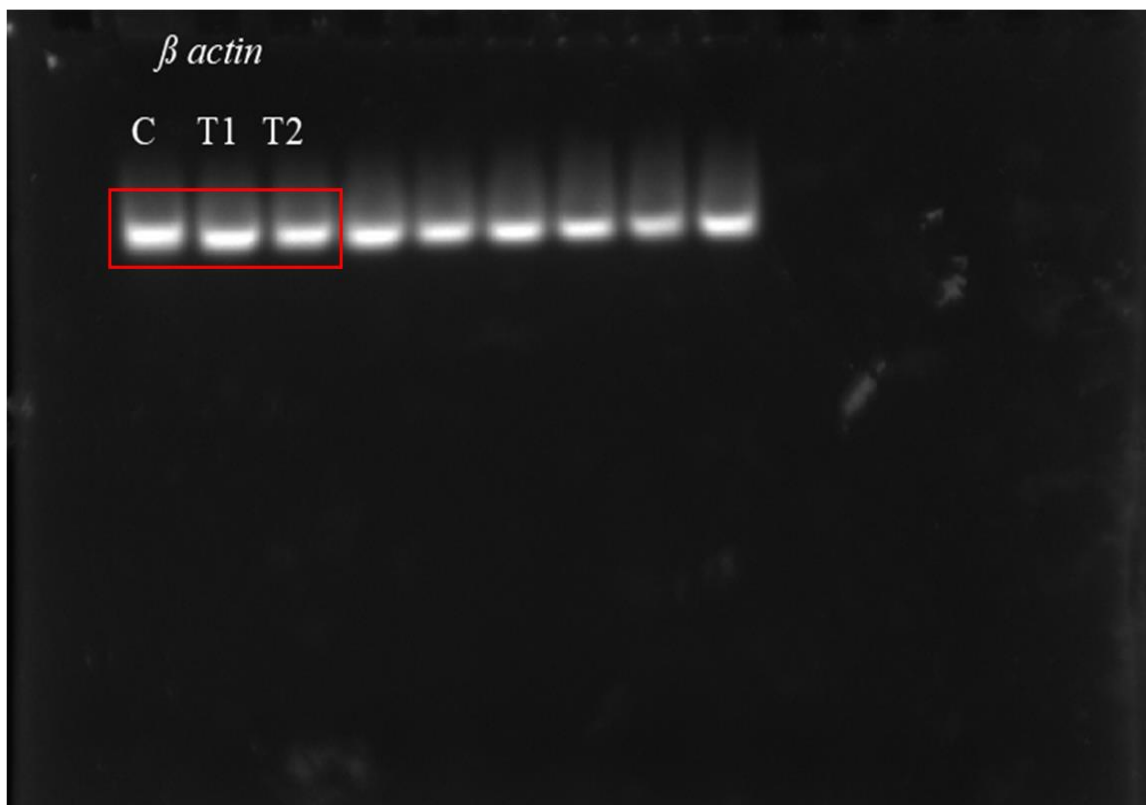
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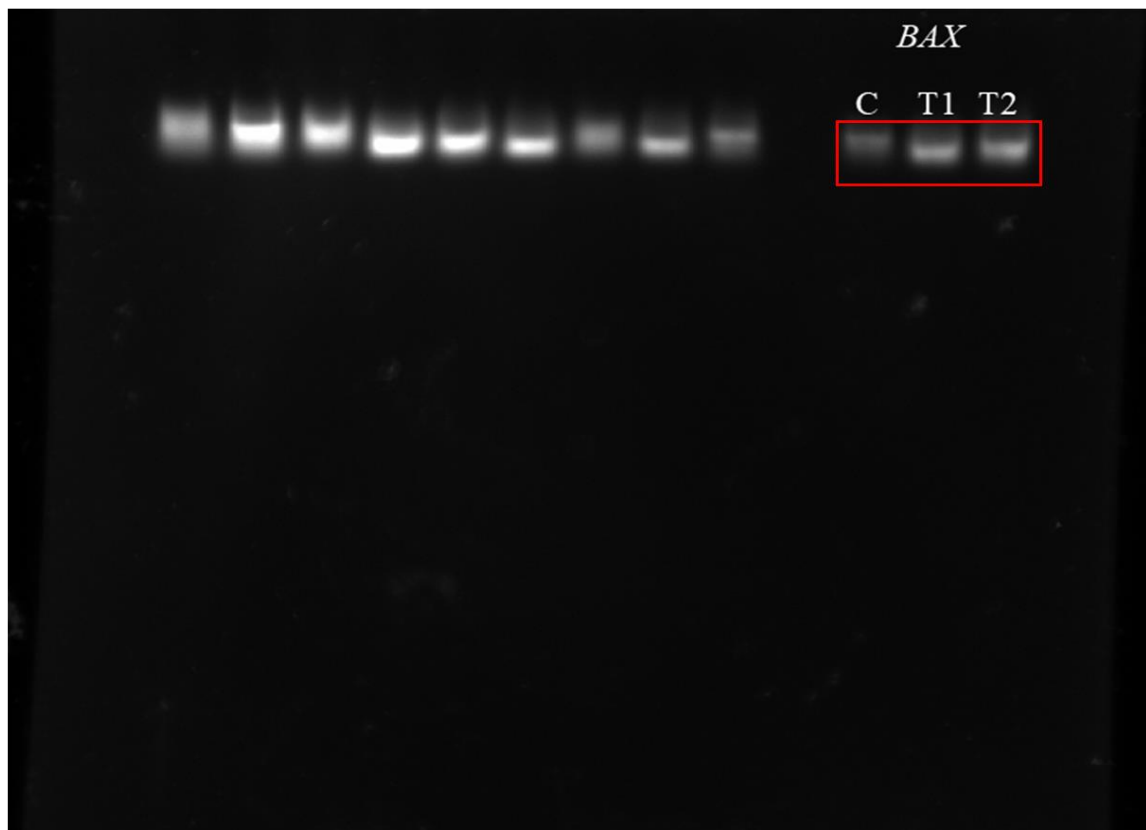
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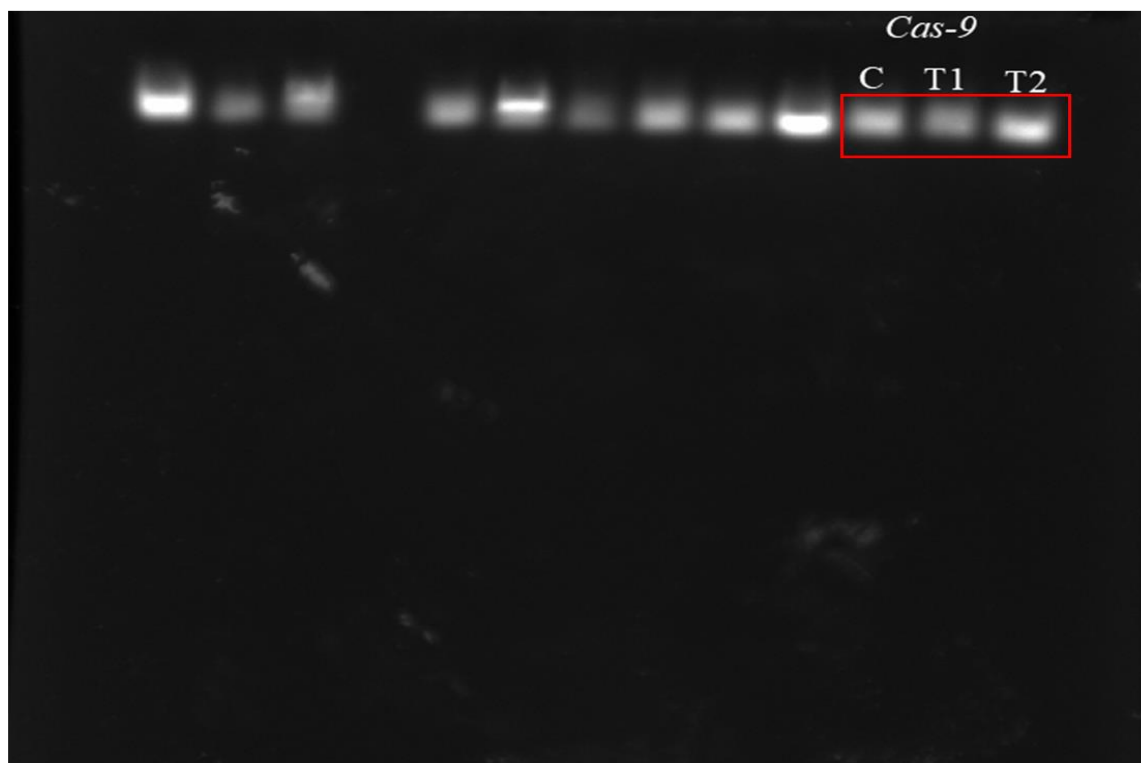
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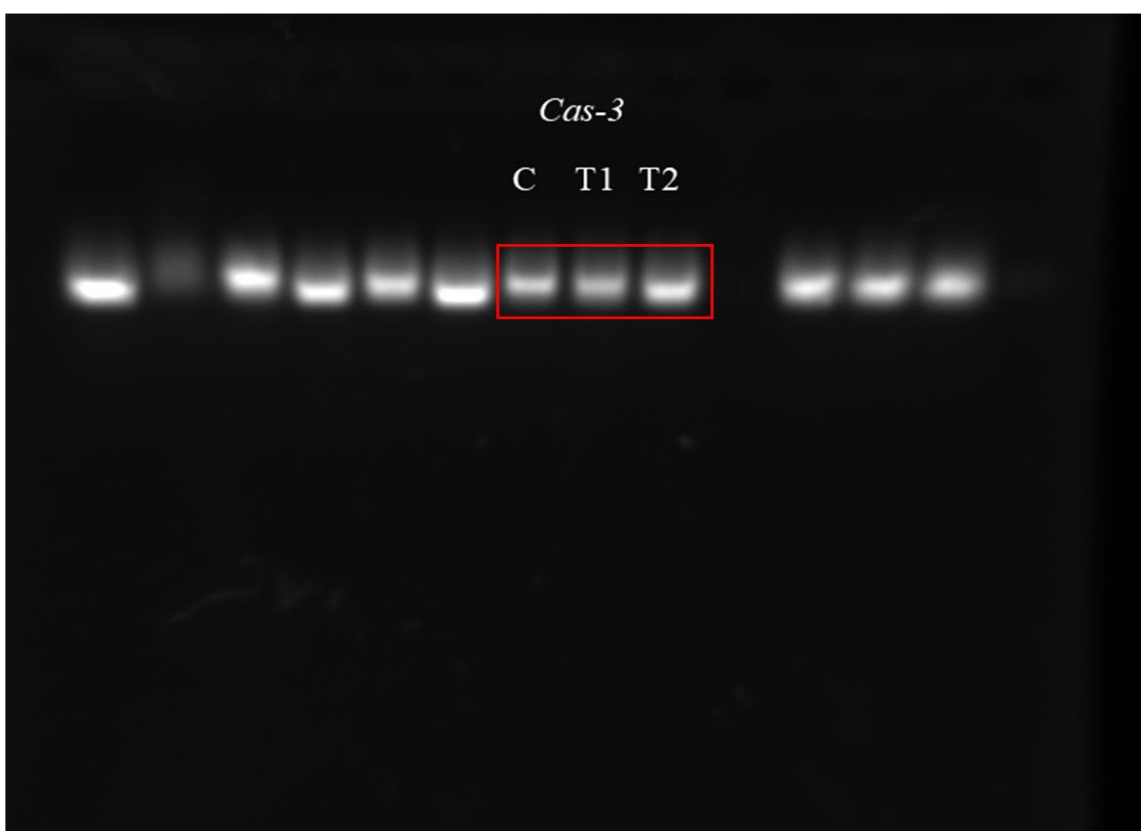
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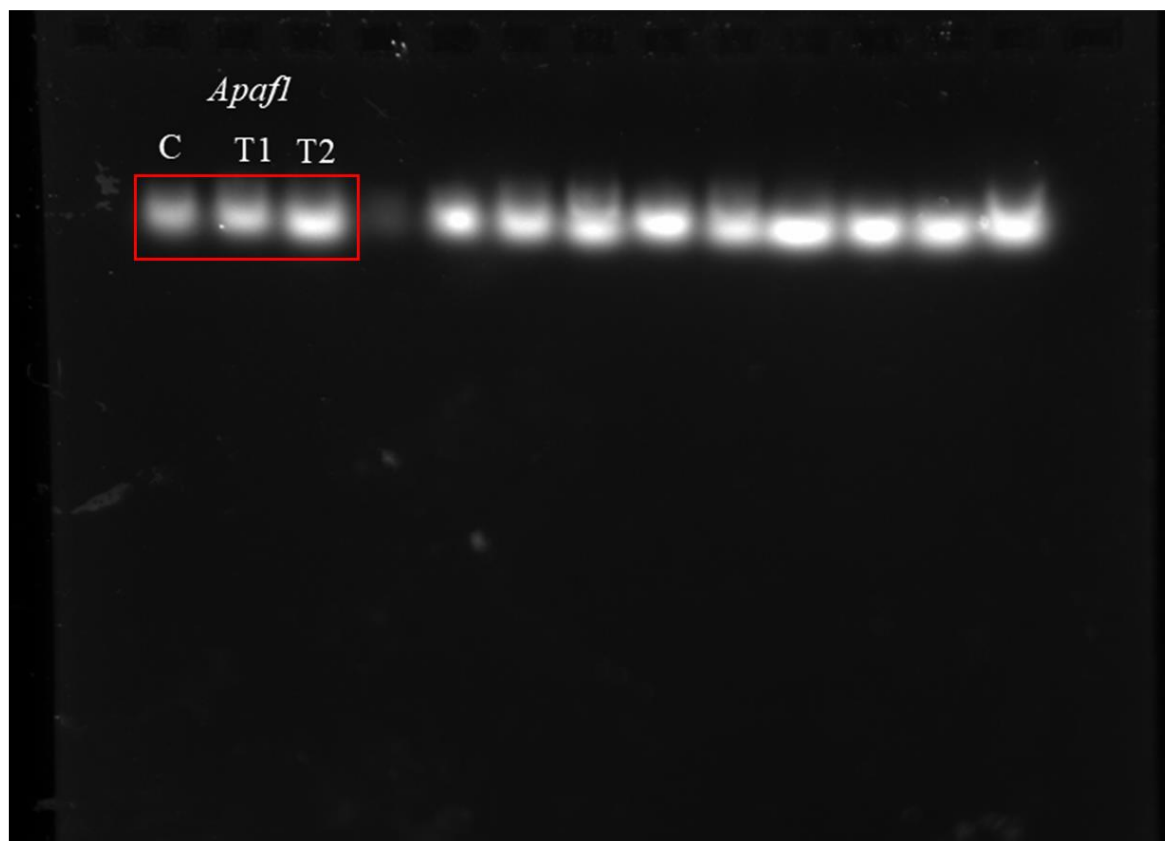
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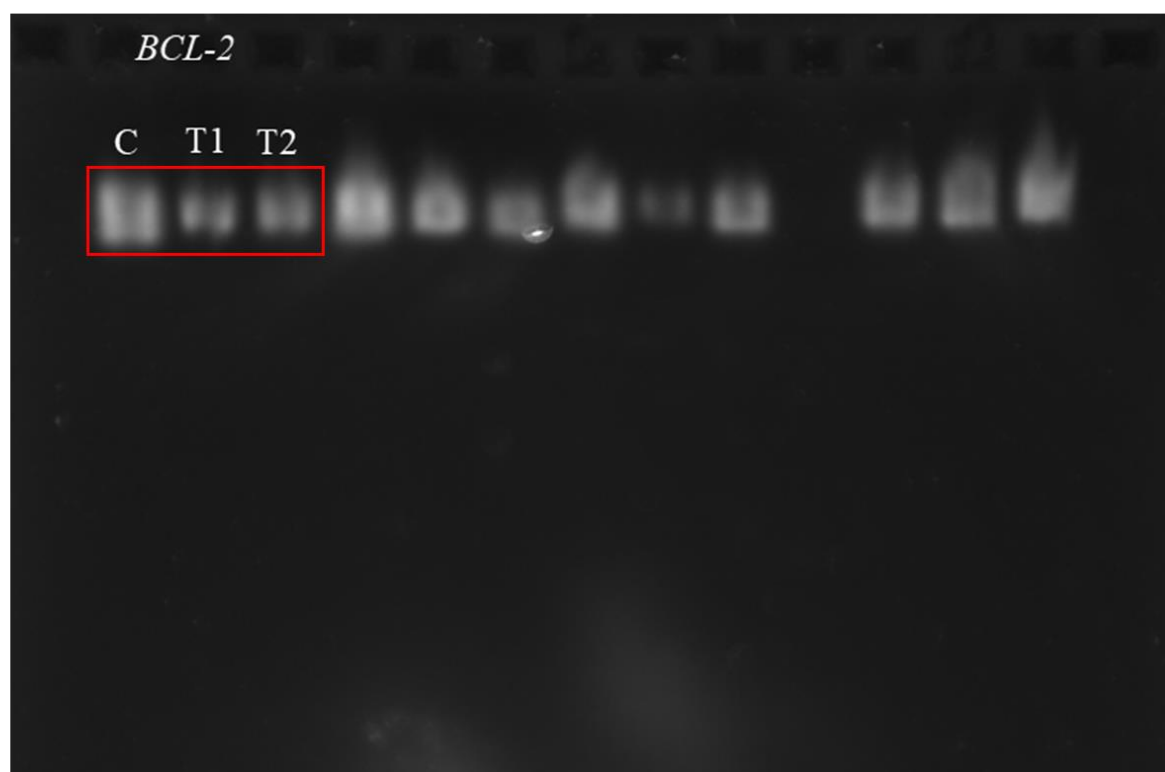
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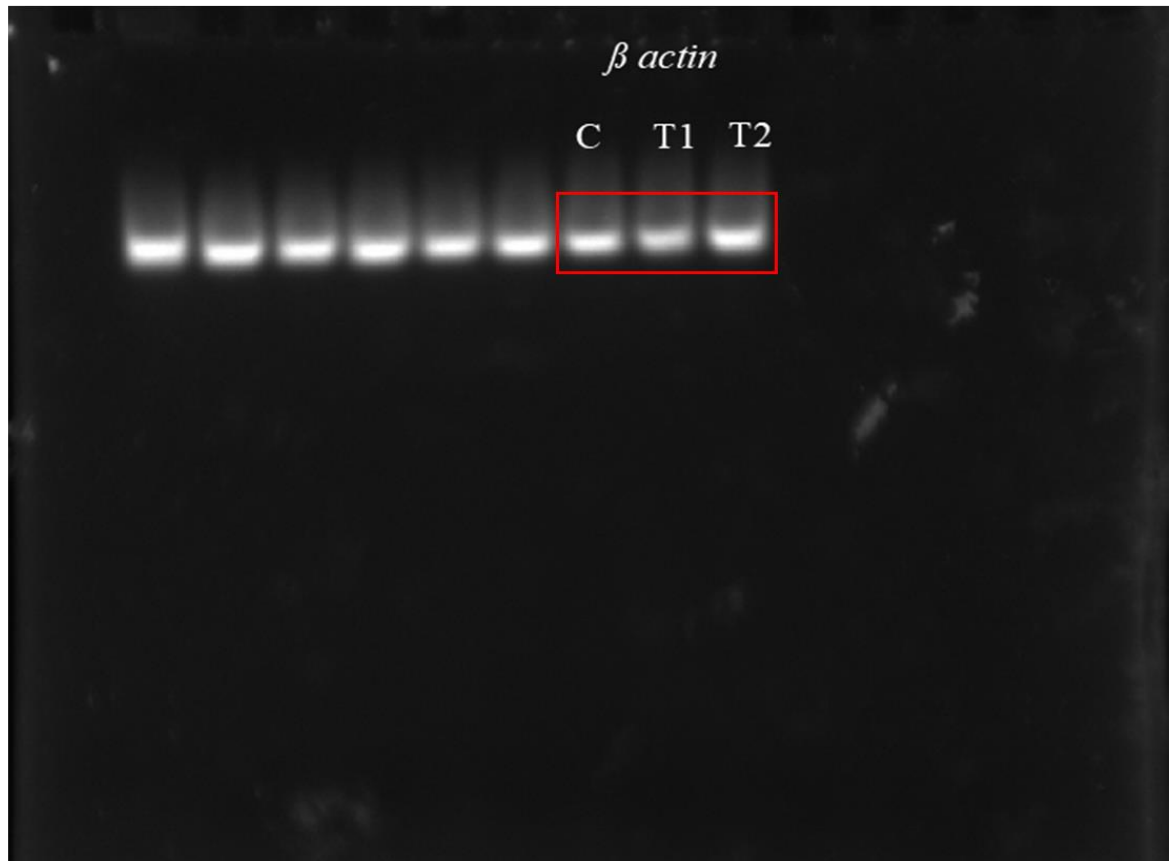
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m



Supplementary Fig. 2. Full-length images of gel bands representing ER stress-related genes: (a) CHOP, (b) ATF4, (c) GRP78, (d) PERK, (e) eIF2 α , (f) GADD45, and (g) β -actin. Apoptosis-related genes include (h) BAX, (i) CAS9, (j) CAS3, (k) APAF1, (l) BCL2, and (m) β -actin. Samples analyzed: Control, T1 (Treatment 1), and T2 (Treatment 2).