

# Supplementary Materials: Protective Effects of Astaxanthin on Ochratoxin A-Induced Liver Injury: Effects of Endoplasmic Reticulum Stress and Mitochondrial Fission–Fusion Balance

**Table S1.** The primers that were applied in this research.

Primer	Sequence	Amplicon size (bp)
<i>AHR-F</i>	5'TTCAGGAAAGCAGAACAGCAA 3'	96bp
<i>AHR-R</i>	5'TCACAATAATACGAAGCCAT 3'	
<i>CAR-F</i>	5'ACTTCACCTGCCCCCTTTGCC 3'	105bp
<i>CAR-R</i>	5'CCTTCCTCATCCCCACGTCCA 3'	
<i>PXR-F</i>	5'CCCTCAAGAGCTACATCGACCA 3'	108bp
<i>PXR-R</i>	5'TGTTCTCCATCTTCAGCGTCT 3'	
<i>CYP1A1-F</i>	5'ATGCTCGTTTCAGTGCCTTCGT 3'	199bp
<i>CYP1A1-R</i>	5'GTGTCAAAGCCTGCCCCAA 3'	
<i>CYP1A5-F</i>	5'AACCCAGAGCGTTTCCTCAA 3'	120bp
<i>CYP1A5-R</i>	5'CTCCCACTTGCTATGTTTTCC 3'	
<i>CYP2C18-F</i>	5'AACCTCCATACGAAGCTGCAA 3'	243bp
<i>CYP2C18-R</i>	5'TGTGCCTTTGAAGACTTTCTCA 3'	
<i>CYP2D6-F</i>	5'GAACCCTGCTTACATCCGAGA 3'	175bp
<i>CYP2D6-R</i>	5'CATGAACAGGAACGCCCAT 3'	
<i>CYP3A9-F</i>	5'GAGATGAGACTGTGAATGG 3'	199bp
<i>CYP3A9-R</i>	5'TTTTTTTAATGGTGATAGAAC 3'	
<i>GRP78-F</i>	5'GAATCGGCTAACACCAGAGGA 3'	118bp
<i>GRP78-R</i>	5'CGCATAGCTCTCCAGCTCATT 3'	
<i>GRP94-F</i>	5'CAAAGACATGCTGAGGCGAGT 3'	186bp
<i>GRP94-R</i>	5'TCCACCTTTGCATCCAGGTCA 3'	
<i>ATF4-F</i>	5'GAATCGGCTAACACCAGAGGA 3'	118bp
<i>ATF4-R</i>	5'CGCATAGCTCTCCAGCTCATT 3'	
<i>ATF6-F</i>	5'CGTCGTCTGAACCACTTACTGA 3'	101bp
<i>ATF6-R</i>	5'CCTTCTTTCTAACAGCCACAC 3'	
<i>eIF2α-F</i>	5'CAGGGGCACCCAACCTACAA 3'	121bp
<i>eIF2α-R</i>	5'CGGGCACAAATACTTTTCATCATCT 3'	
<i>IRE1-F</i>	5'CTACAGGTCGTCCTCACATC 3'	101bp
<i>IRE1-R</i>	5'ATCAGTCCTTCTGCTCCCATCT 3'	
<i>PERK-F</i>	5'TCATCCAGCCTCAGTAAACC 3'	164bp
<i>PERK-R</i>	5'ACAACATCCTCGCCCAGT 3'	
<i>CHOP-F</i>	5'GCTGGATGAGACACTGAATGCAGA G 3'	149bp
<i>CHOP-R</i>	5'CACGCTTCCGCTTTGTCCTCTG 3'	
<i>DRP1-F</i>	5'TCGTGCTCCTCCTGGTGTTCC 3'	161bp
<i>DRP1-R</i>	5'TTCTGTGCGTTGCCACCGATG 3'	
<i>MFF-F</i>	5'GGCTCCTCAGAATGCTGACCTTG 3'	91bp
<i>MFF-R</i>	5'CACTACAATCCGCTCTGGAACCTG 3'	
<i>OPA1-F</i>	5'TGTATGTGATGAGATAGCCTGG 3'	115bp
<i>OPA1-R</i>	5'CCAGCTCCACTGTACAAGACA 3'	
<i>MFN1-F</i>	5'CCTGCTGCAACTCCAGAGAACAC 3'	115bp
<i>MFN1-R</i>	5'TCACTCCGCCAACAACGATGATG 3'	
<i>MFN2-F</i>	5'AGCTGGCTGCGTACATCAATGAG 3'	150bp

<i>MFN2-R</i>	5'GCCTTGCCAACACTTCACTAATGC	93bp
	3'	
<i>β-actin-F</i>	5'CCAGCCATGTATGTAGCCATCCAG	
	3'	
<i>β-actin-R</i>	5'GGTAACACCATCACCAGAGTCCAT	
	C 3'	

**Table S2.** The antigens that were used in the current research.

Antibody name	Dilution ratio	kDa	Resource
<i>GRP78</i>	1:1000	78	Proteintech Biotechnology, China
<i>ATF6</i>	1:1000	100	Proteintech Biotechnology, China
<i>CHOP</i>	1:1000	30	Proteintech Biotechnology, China
<i>DRP1</i>	1:500	80	Abclonal Technology, China
<i>OPA1</i>	1:1000	100	Abclonal Technology, China
<i>MFN1</i>	1:1000	84	Abclonal Technology, China
<i>MFN2</i>	1:1000	86	Abclonal Technology, China
<i>β-actin</i>	1:1000	42	Abclonal Technology, China