

Supplementary Materials

Table S1. The list of specific primers used for qPCR

Gene	Reference Sequence	Primer	Amplicon Length
Gapdh*	NM_001289726.1	F 5'-GGAGAAACCTGCCAAGTATGA-3' R 5'-TCCTCAGTGTAGCCCAAGA-3'	90
Mt2	NM_008630.2	F 5'-AAAGAGGCTTCCGACAAGTG-3' R 5'-GCTAGGCTTCTACATGGTCTATTT	90
Mt1	NM_013602.3	F 5'-AGGGCTGTGTCTGCAAAG-3' R 5'-CTGGGTGGTCCGATACTATTT	100
Wdr45*	NM_001290792.1	F 5'-TAAAGACACCCGCCTTAACC-3' R 5'-CCACTGAGAGTCCACGTATTG	88
Ulk1*	NM_001347394.1	F 5'-ACCAGGCAGACATTGAGAAC-3' R 5'-AGCAGGTAGTCAGGCATAGA	95
Ulk2*	NM_013881.4	F 5'-TCCACCATCCCTTCCAGATA-3' R 5'-CAGAGTCTTTGGACACCTGTAG	98
Nbr1*	NM_008676.3	F 5'-CAGAAGAGGATCGTTGGAGTG-3' R 5'-TGGTTAGTGTTCATGGGTGTATG	101
Atg7*	NM_001253717.2	F 5'-TCCTGAGAGCATCCCTCTAAT-3' R 5'-GGCTCGACACAGATCATCATAG	106
Atg14	NM_172599.4	F 5'-AGTCTGCTGGGATGGTTAGA-3' R 5'-GGAATGATGGAGGAAGTGAGTG	101
CHOP	NM_007837.4	F 5'-TCCTGTCCTCAGATGAAATTGG-3' R 5'-GCAGGGTCAAGAGTAGTGAAG	91
GRP78*	NM_001163434.1	F 5'-GAGACTGCTGAGGCGTATTT-3' R 5'-CAGCATCTTTGGTTGCTTGTC	100
Xbp1*	NM_013842.3	F 5'-TGGAAGAAGAGAACCACAAACT-3' R 5'-CATTCCCAAGCGTGTCTTAAC	104
PERK*	NM_010121.3	F 5'-GTTACACAGCCAGCGAAGAA-3' R 5'-GGCCTCTGTACATCCCTAAGTA	102
SIRT1*	NM_019812.2	F 5'-GGCCTAATAGACTTGCAAAGGA-3' R 5'-CTCAGCACCGTGGAATATGTAA	98
SIRT3*	NM_022433.2	F 5'-CTGGATGGACAGGACAGATAAG-3' R 5'-TGAAGTCTTGCTGGACATAGG	84
PGC-1 α *	NM_008904.2	F 5'-CGACAGCTATGAAGCCTATGAG-3' R 5'-CTTCTGCCTCTCTCTGTTTG	106
TFAM	NM_009360.4	F 5'-AGGCCCAAGAAACCAGTTAG-3' R 5'-AGAAAGTCCATGGCTACAGAAA	109
Nrf1*	NM_001164226.1	F 5'-AGCGATTGTACTCTGCATCTC-3' R 5'-CCAGGATCATGCTCTTGTACTT	107
HTRA2*	NM_019752.3	F 5'-TGACTCCCAGCATCCTTATTG-3' R 5'-GGAGCCCAGGATAACTTTATGA	95
Opal	NM_001199177.1	F 5'-GTCAGGCTTTCTGGAACAGTAG-3' R 5'-TTCGTCAACTGGTGGTCTTTAG	93

Mfn1	NM_024200.4	F 5'-GGAAGAGAGGGAAGACCAAATC-3' R 5'-CGTGACCTCCTTGATCTTCTTC	97
Mfn2*	NM_001285920.1	F 5'-ATGCAGCAGGACATGATAGAC-3' R 5'-GTCATAGCTGAGGGAGAAACAC	105
Fis1*	NM_025562.3	F 5'-GCCTGGTTCGAAGCAAATAC-3' R 5'-AAGACATAGTCCCGCTGTTC	103
Mff*	NM_029409.2	F 5'-GCCTGGTTCGAAGCAAATAC-3' R 5'-AAGACATAGTCCCGCTGTTC	103
Nfe2l2	NM_010902.5	F 5'-GGCTCAGCACCTTGTATCTT-3' R 5'-CACATTGCCATCTCTGGTTTG	107
Hmox1*	NM_010442.2	F 5'-GTACACATCCAAGCCGAGAA-3' R 5'-TGGTACAAGGAAGCCATCAC	98
Nqo1*	NM_008706.5	F 5'-CTCGAATCTGACCTCTATGCTATG-3' R 5'-GATGACTCGGAAGGATACTGAAA	107
Gsta1*	NM_008181.3	F 5'-GACCAGAGCCATTCTCAACTAC-3' R 5'-ATCAGGGCTCTCTCCTTCAT	75
Gclc*	NM_010295.2	F 5'-CCTCCTCCTCCAACTCAGATA-3' R 5'-GCAGTACCACGAATACCACATAG	106
Gclm*	NM_008129.4	F 5'-GTATCAGTGGGCACAGGTAAA-3' R 5'-CGGGTCATTGTGAGTCAGTAG	127
Cat*	NM_009804.2	F 5'-GATGGTAACTGGGATCTTGTGG-3' R 5'-GTGGGTTTCTTCTTCTGGCTATG	100
Sod1*	NM_011434.1	F 5'-CTCAGGAGAGCATTCCATCATT-3' R 5'-CTCCCAGCATTTCCAGTCTT	108
Sod2	NM_013671.3	F 5'-AGCGTGACTTTGGGTCTTT-3' R 5'-AGCGACCTTGCTCCTTATTG	111
Sod3*	NM_011435.3	F 5'-GAACTTCACCAGAGGGAAAGAG-3' R 5'-CAGTAGCAAGCCGTAGAACAA-3'	93

* These pairs of primer are designed to span at least one intronic sequence.

Figure S1: Cell viability of TM4 after incubation with CdCl₂

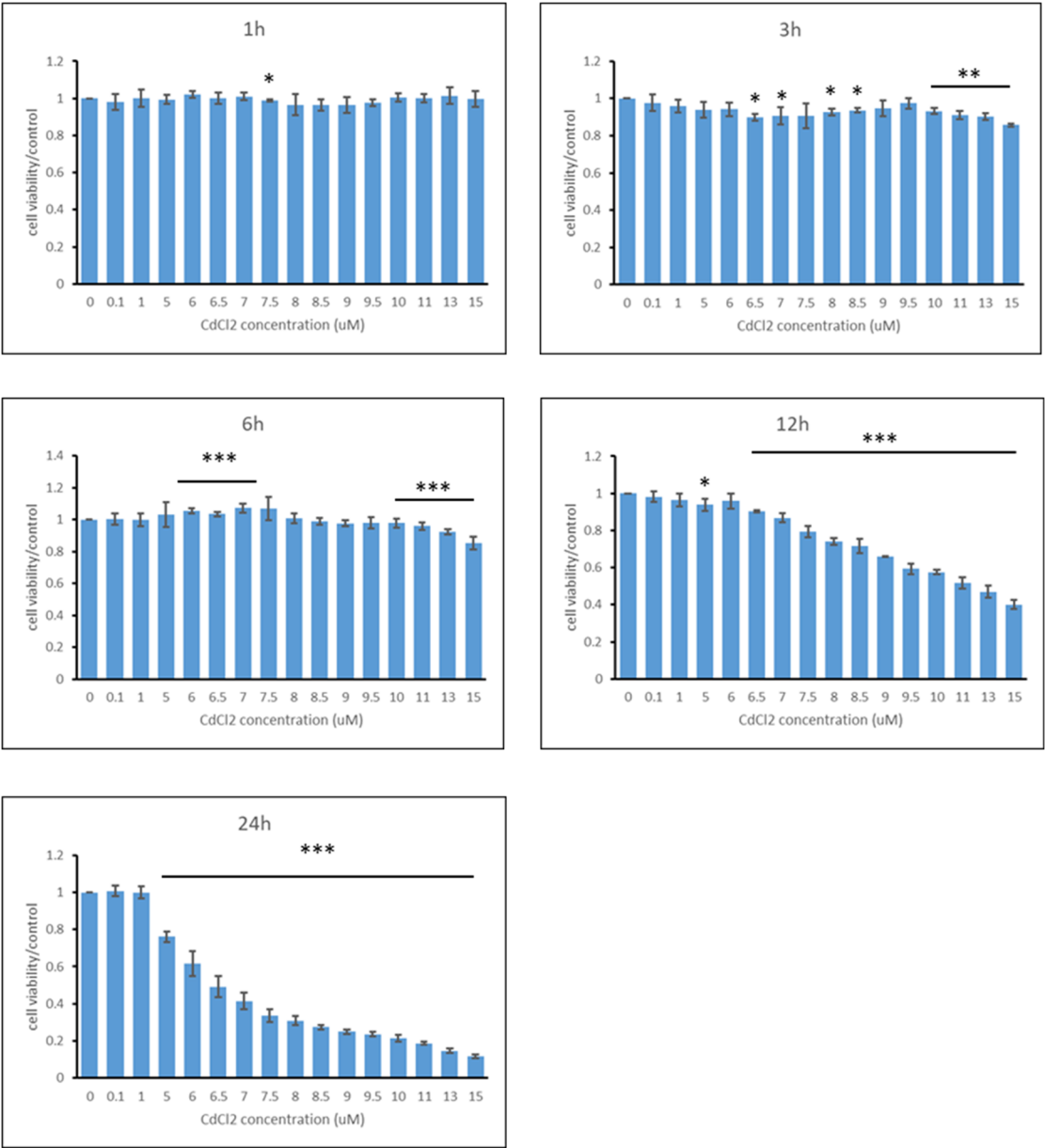


Figure S2: Morphological changes of TM4 after incubation with CdCl₂

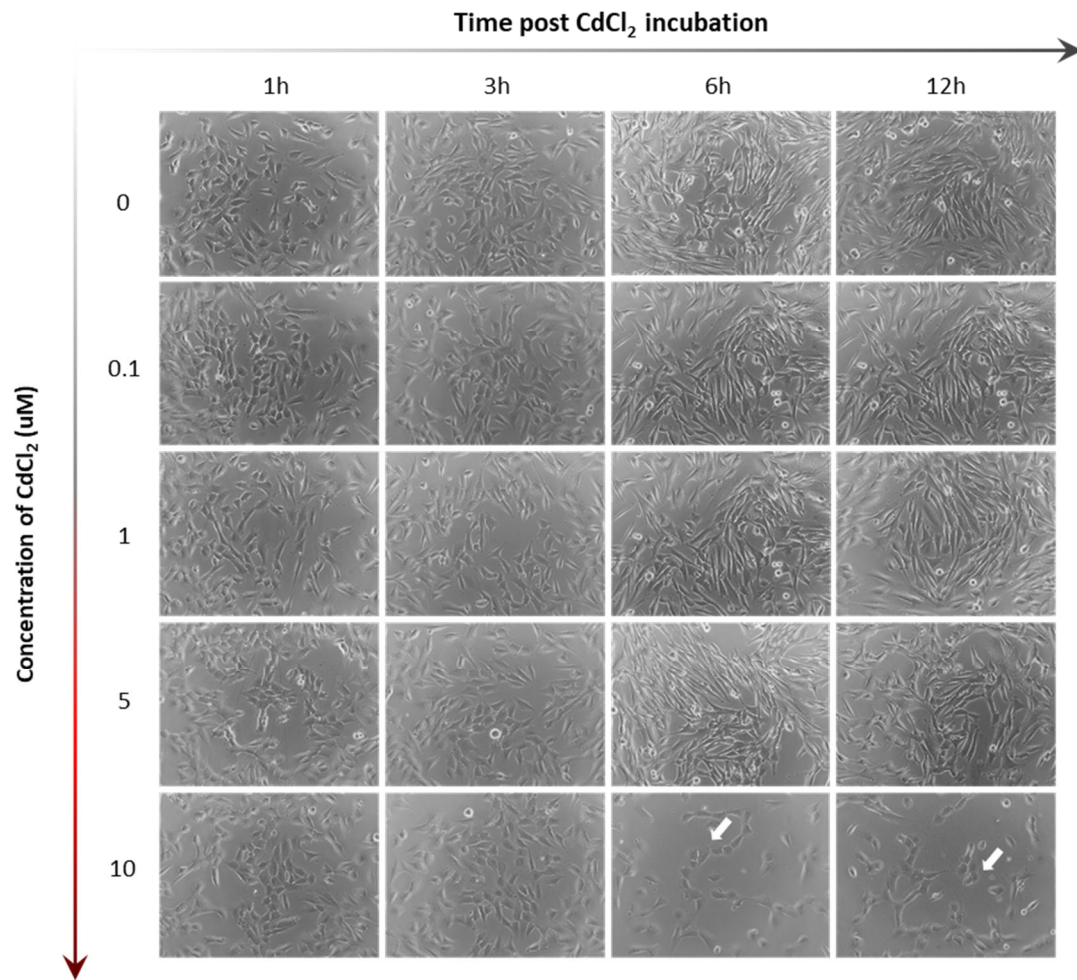
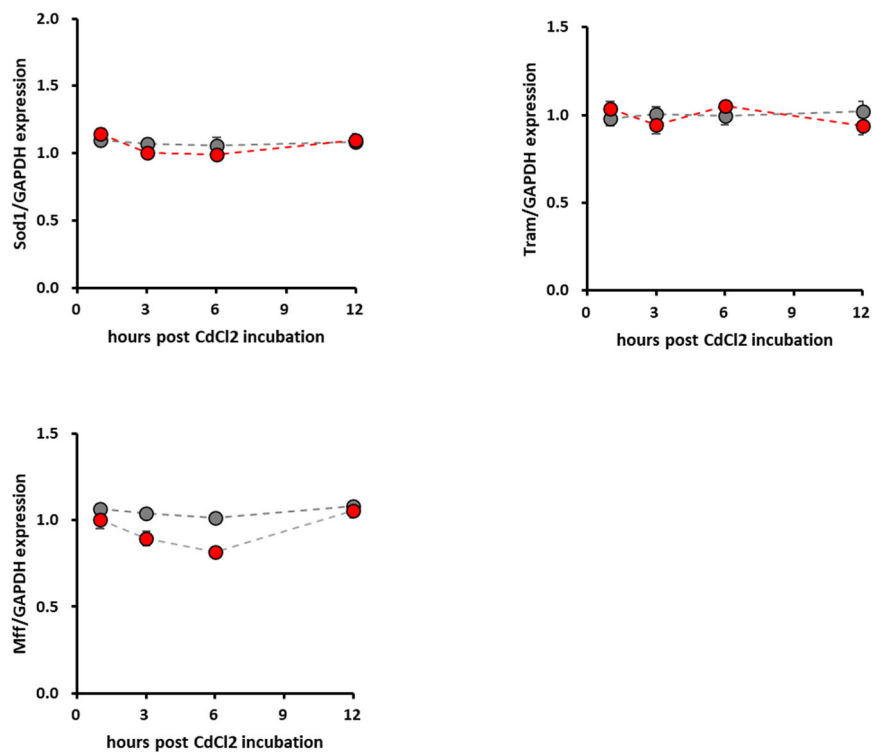
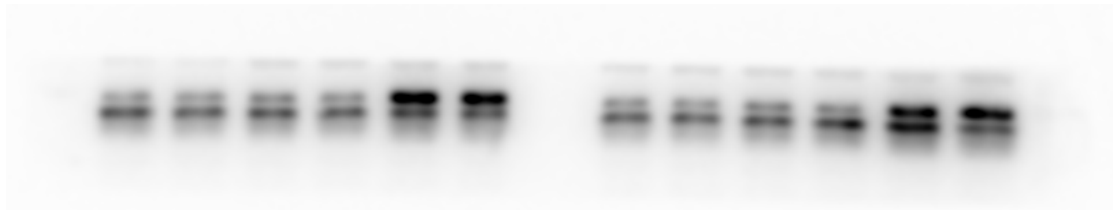


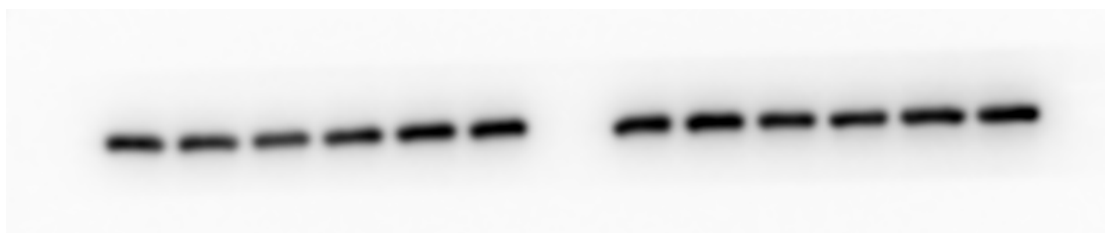
Figure S3: Transcriptional change of SOD1, Mff, and Tram



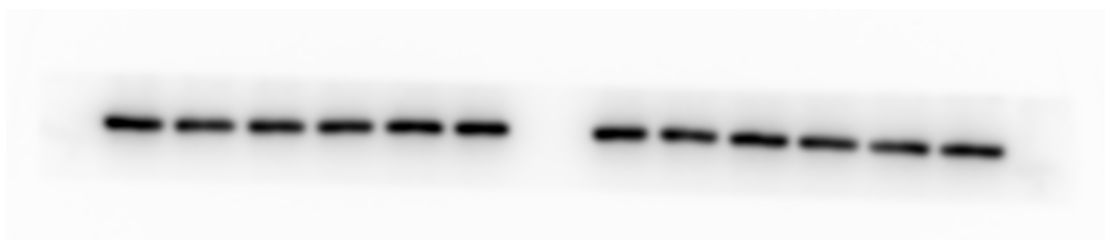
Atg5



GAPDH1



GAPDH2

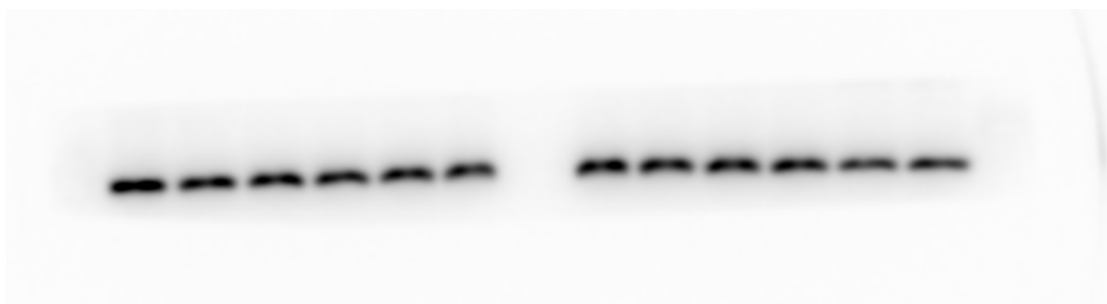


HO1

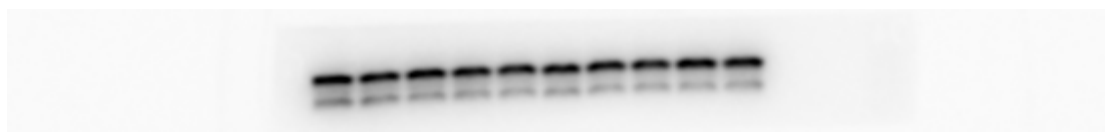




SOD



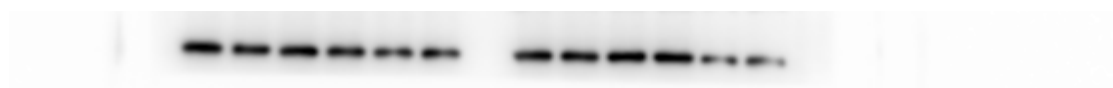
LC3



CHOP



Hrf1



Mfn1

