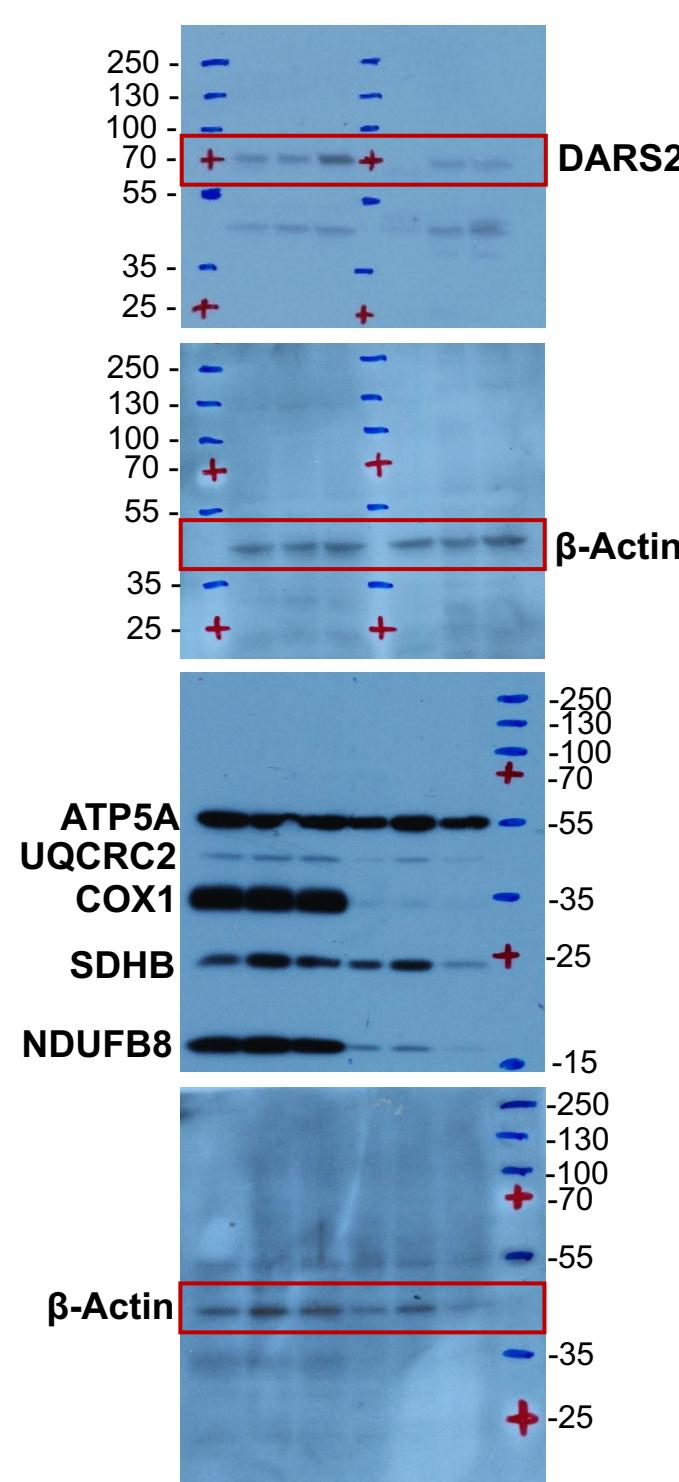

Supplementary information

Mitochondrial dysfunction abrogates dietary lipid processing in enterocytes

In the format provided by the authors and unedited

Supplementary Figure 1

Figure 1c



Supplementary Figure 1 (continued)

ED Figure 1a



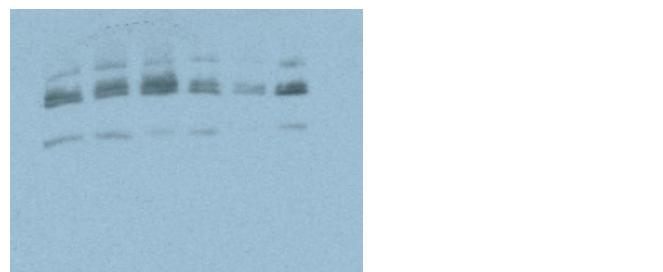
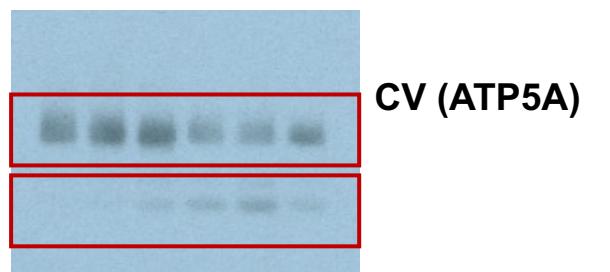
ED Figure 1b



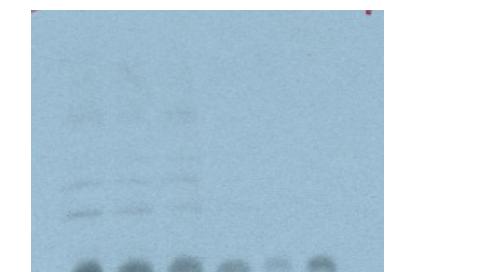
ED Figure 1b (continued)



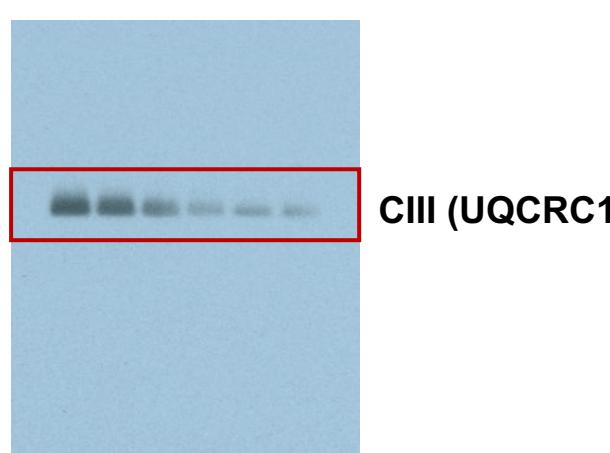
F0+F1 CV (ATP5A)



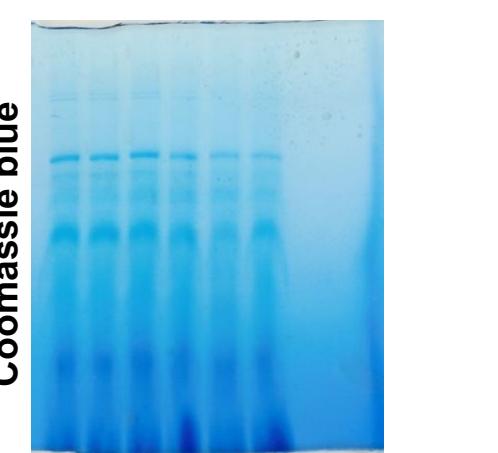
CII (SDHA-CIV)



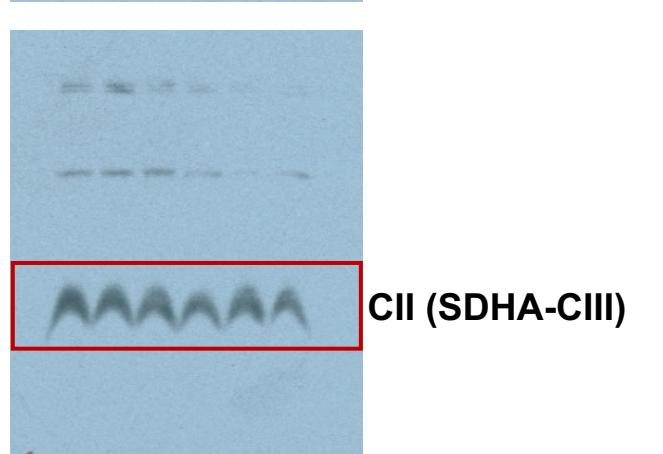
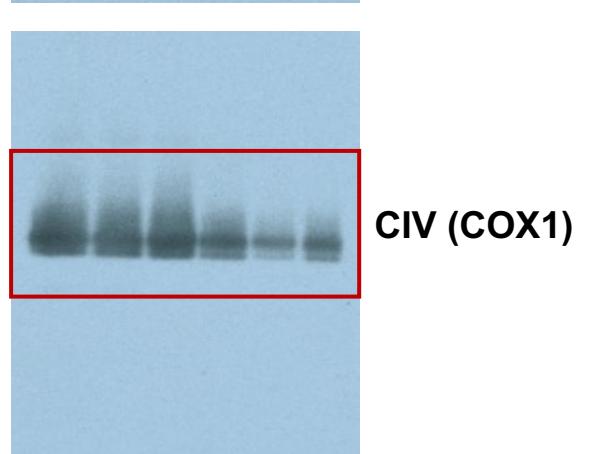
CIII (UQCRC1)



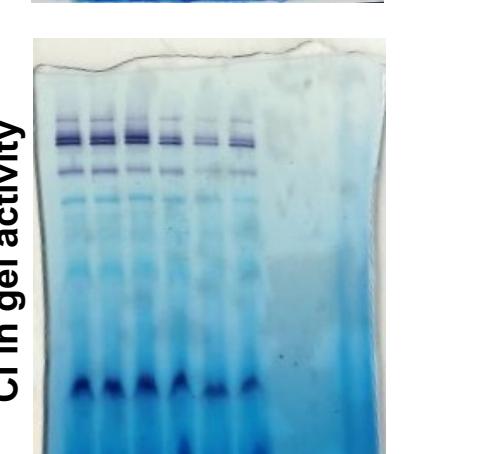
Coomassie blue



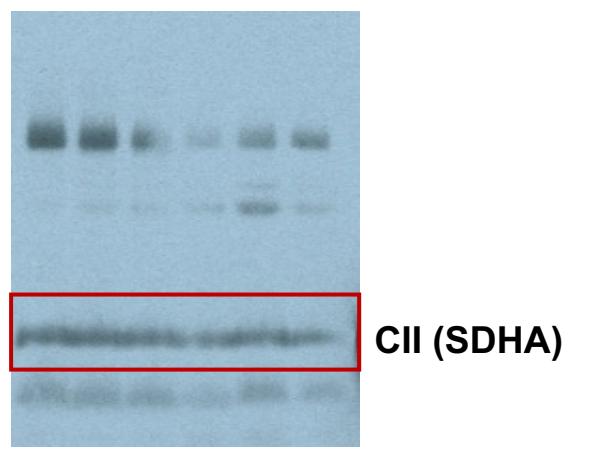
CIV (COX1)



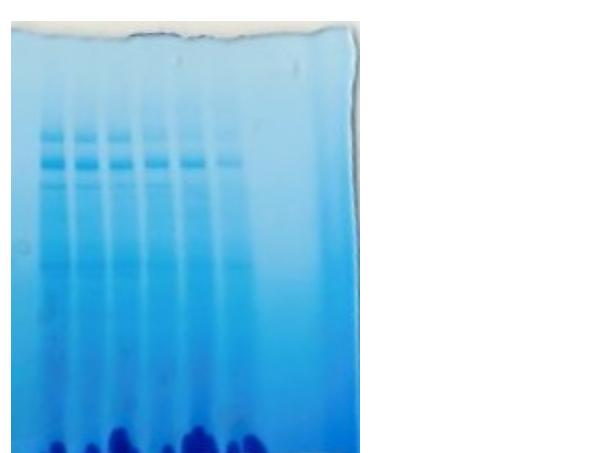
CII in gel activity



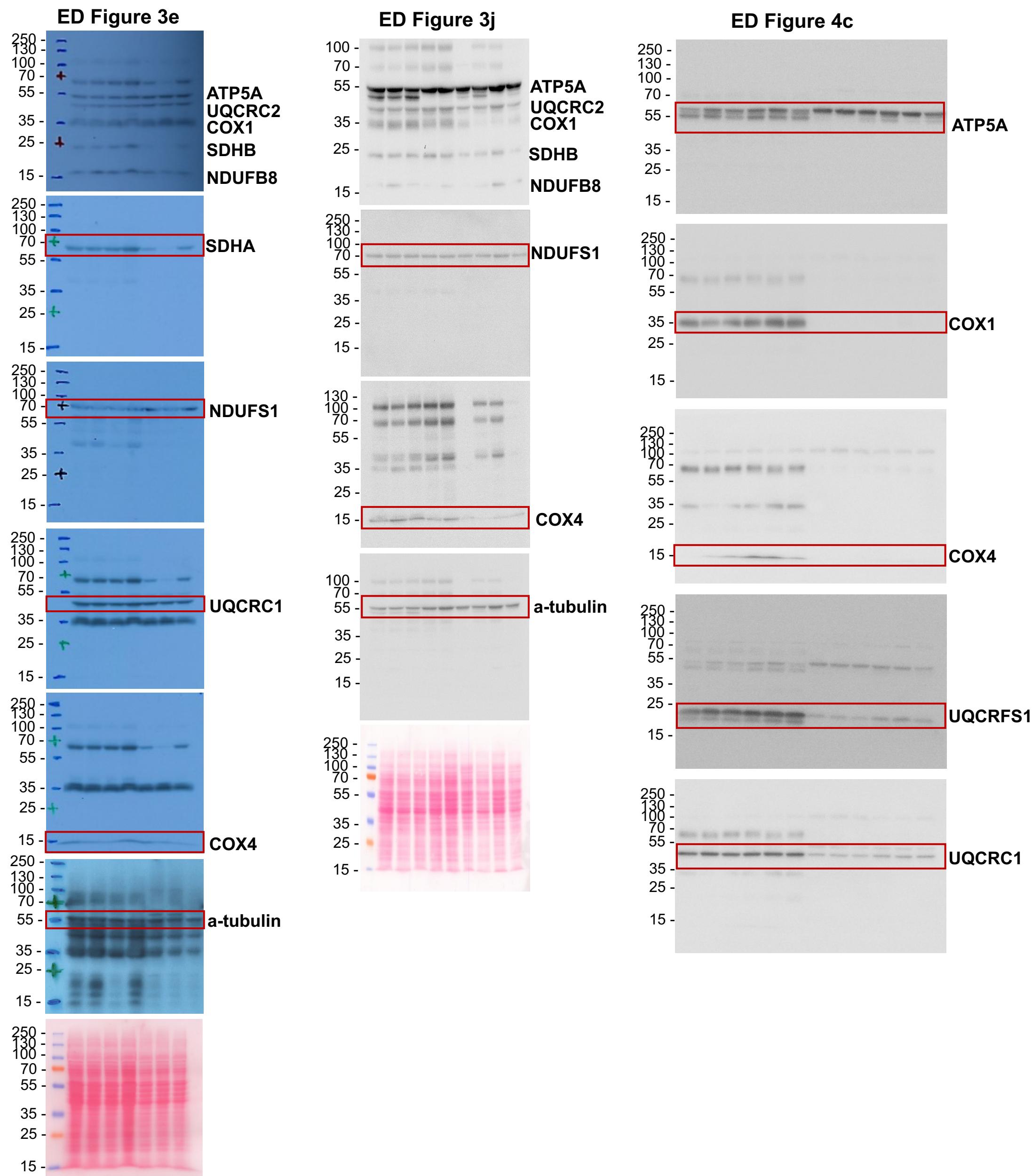
CII (SDHA)



Coomassie blue

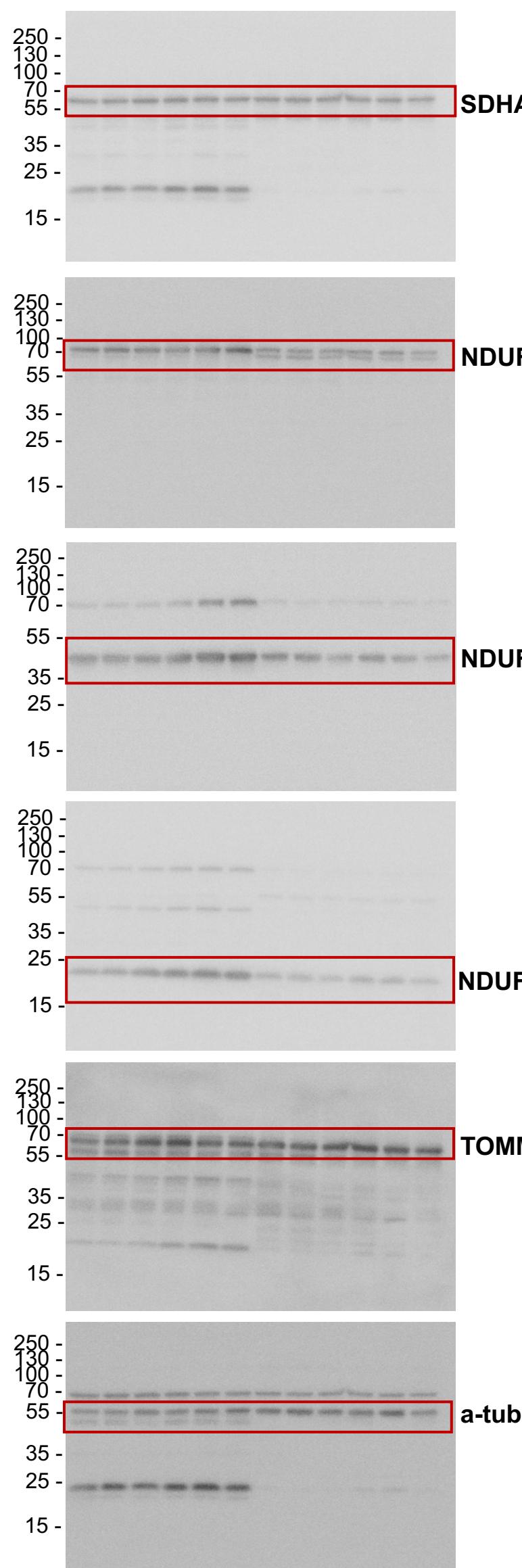


Supplementary Figure 1 (continued)

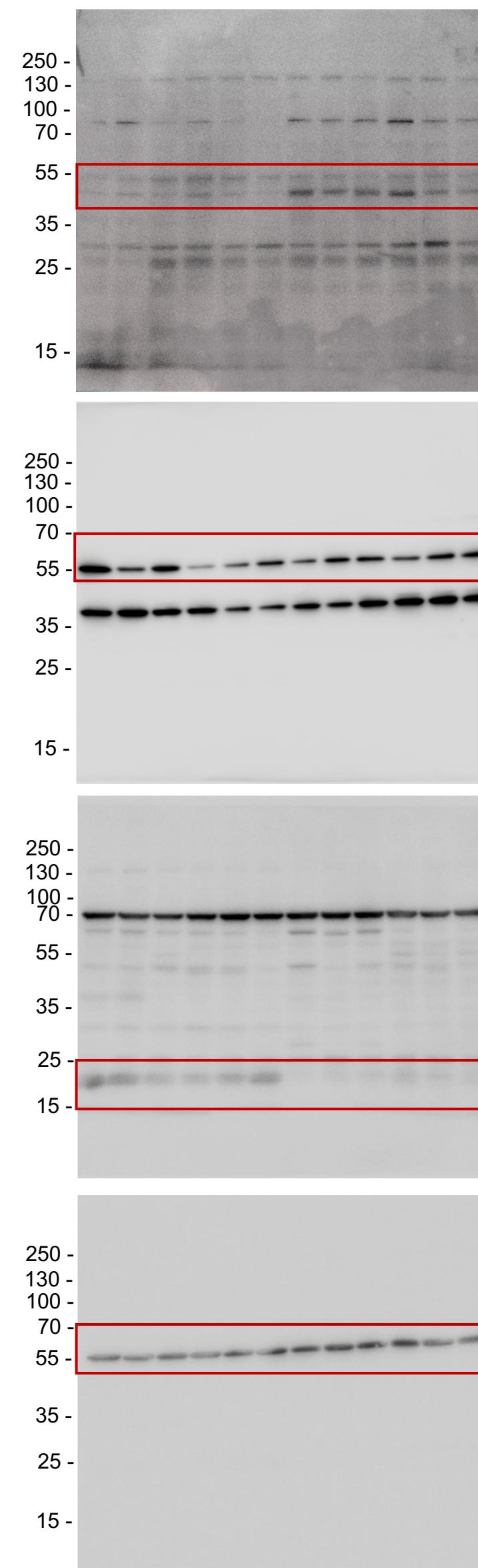


Supplementary Figure 1 (continued)

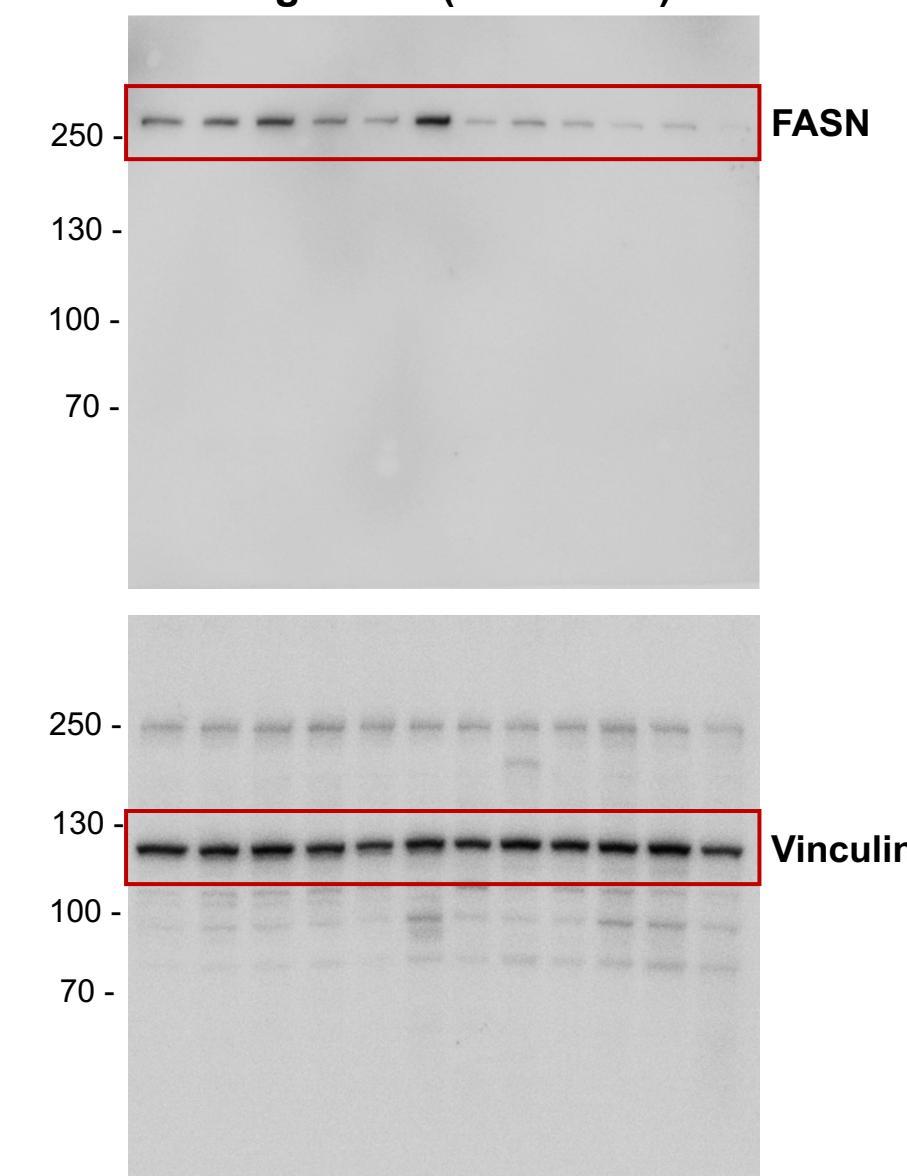
ED Figure 4c (continued)



ED Figure 5b

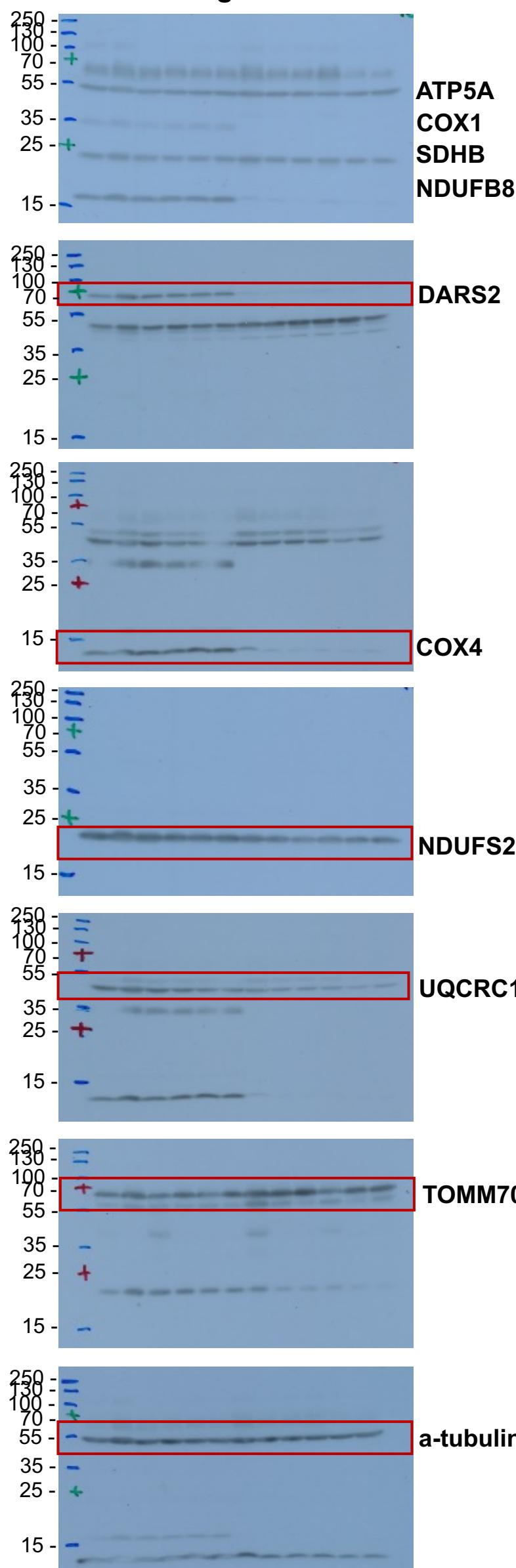


ED Figure 5b (continued)

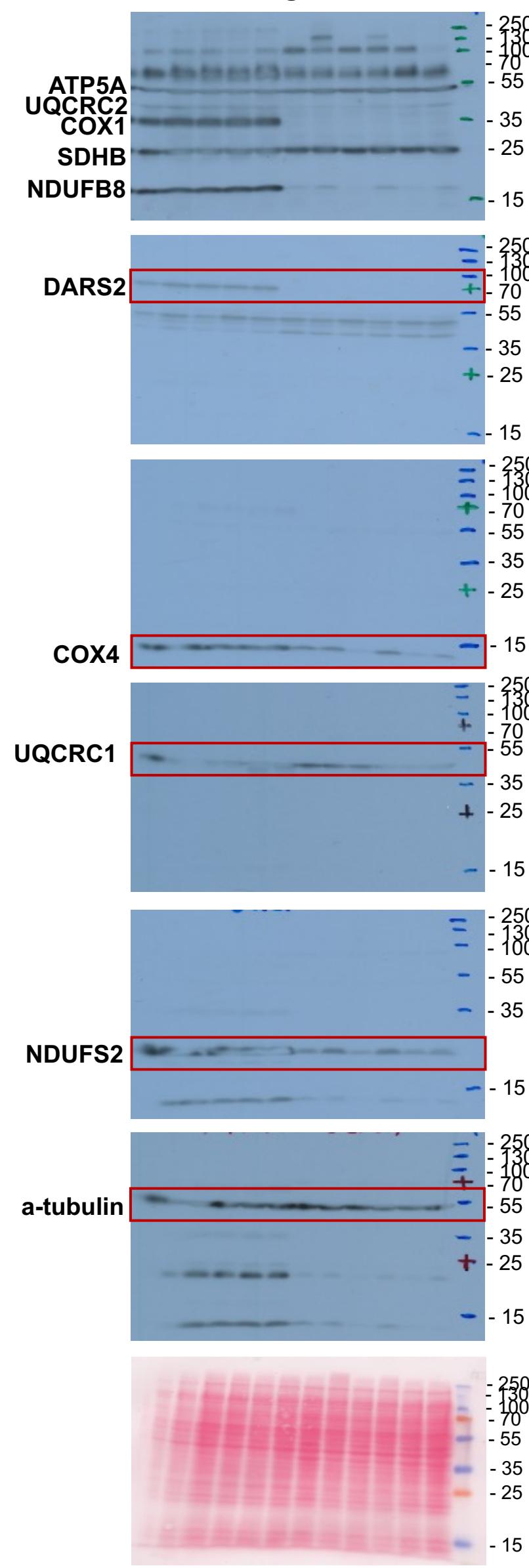


Supplementary Figure 1 (continued)

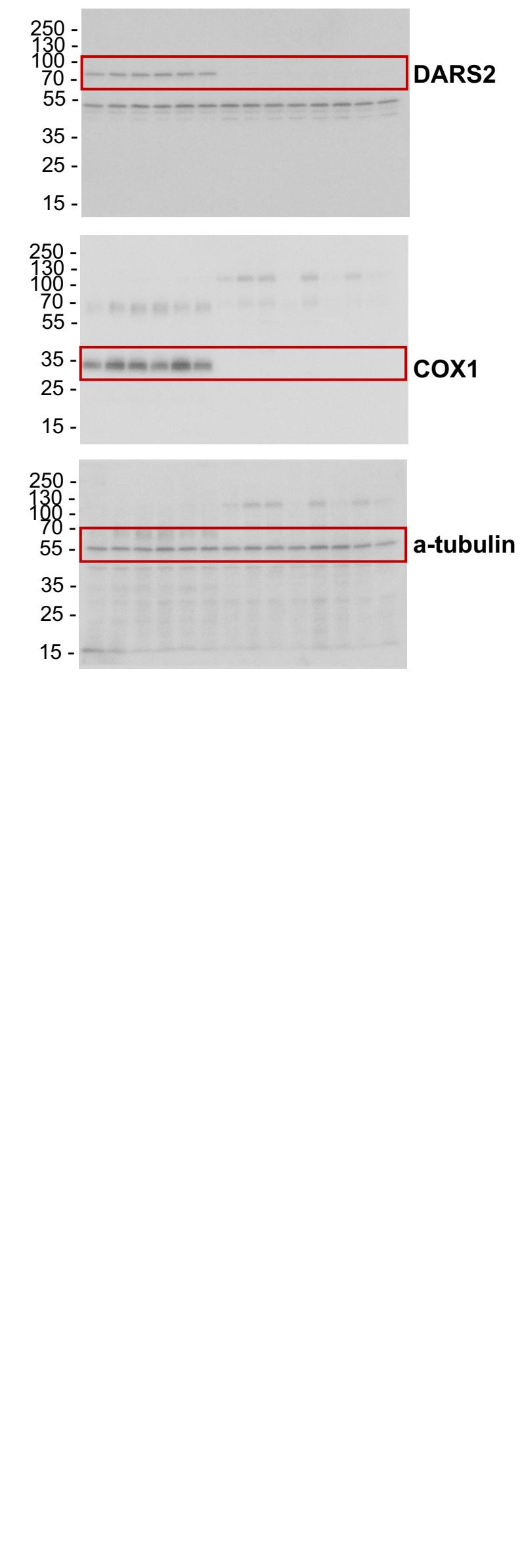
ED Figure 7b



ED Figure 7f



ED Figure 8c



Supplementary Figure 1. Uncropped gels from immunoblots presented in the manuscript.

Genotype	Age	Whole Small intestine										
		H/E	COX/SDH	Ki67	PLIN2	ORO	ALP	PAS	OLFM4	CC3	CC8	CD45
<i>Dars2</i> ^{f/f} or <i>Dars2</i> ^{f/wt}	6-7 days-old	17	8	6	5	12	6	6	9	9	9	8
<i>DARS2</i> ^{tamIEC-KO}		19	8	6	5	12	6	6	9	9	9	8
<i>Sdhα</i> ^{f/f} or <i>Sdhα</i> ^{f/wt}	6-7 days-old	10	5	5	5	8	Ext. Figure 3d					
<i>SDHA</i> ^{tamIEC-KO}		11	5	5	5	8						
<i>Cox10</i> ^{f/f} or <i>Cox10</i> ^{f/wt}	6-7 days-old	7	5	5	5	5	Ext. Figure 3i					
<i>COX10</i> ^{tamIEC-KO}		8	5	5	5	5						

Genotype	Days after last tamoxifen injection	Proximal Small intestine								
		Stainings								
<i>Dars2</i> ^{f/f}	7d, 8d NCD	31	6	7	5	12	7	7	7	7
<i>DARS2</i> ^{tamIEC-KO}		31	6	7	5	12	7	7	7	7

<i>Dars2</i> ^{f/f}	3d NCD	6	6	6	6	7	Ext. Figure 7d					
<i>DARS2</i> ^{tamIEC-KO}		6	6	6	6	7						

<i>Dars2</i> ^{f/f}	5d NCD	10	6	6	6	7	Ext. Figure 7h					
<i>DARS2</i> ^{tamIEC-KO}		11	6	6	6	7						

<i>Dars2</i> ^{f/f}	7d FFD	32	6	7	7	12	Figure 3a					
<i>DARS2</i> ^{tamIEC-KO}		32	6	7	7	12						

Genotype	Days after last tamoxifen injection	Distal Small intestine								
		Stainings								
<i>Dars2</i> ^{f/f}	7d, 8d NCD	31	12	7	6	12	7	7	7	7
<i>DARS2</i> ^{tamIEC-KO}		31	12	7	6	12	7	7	7	7

<i>Dars2</i> ^{f/f}	7d FFD	32	6	7	7	12	Ext. Figure 8d					
<i>DARS2</i> ^{tamIEC-KO}		32	6	7	7	12						

Genotype	Days after last tamoxifen injection	Proximal Small intestine								
		Stainings (IF)								
		TGN38/E-cadherin/PLIN2/DAPI				TGN38/E-cadherin/DAPI				
<i>Dars2</i> ^{f/f}	7d, 8d NCD	12				6				
<i>DARS2</i> ^{tamIEC-KO}		12				6				

<i>Dars2</i> ^{f/f}	3d NCD	6	6	Ext. Figure 10a, 10b					
<i>DARS2</i> ^{tamIEC-KO}		6	6						

<i>Dars2</i> ^{f/f}	5d NCD	6	6	Figure 4d, Ext. Figure 10a					
<i>DARS2</i> ^{tamIEC-KO}		6	6						

<i>Dars2</i> ^{f/f}	7d FFD	6	Ext. Figure 10c					
<i>DARS2</i> ^{tamIEC-KO}		6						

Genotype	Days after last tamoxifen	Distal Small intestine								
		Stainings (IF)								
		TGN38/E-cadherin/PLIN2/DAPI				TGN38/E-cadherin/DA				

Name	Forward (5'-3')	Reverse (5'-3')
<i>Ppara</i>	AACATCGAGTGTGAAATATGTGG	CCGAATAGTCGCCGAAAGAA
<i>Scd1</i>	GCTCTACACCTGCCTCTTC	CCGTGCTTGTAAGTTCTG
<i>Acc1</i>	GACAGAGGAAGATGGCGTCC	TACAACCTCTGCTCGCTGGG
<i>Srepb1c</i>	CGCGGAAGCTGTCGGGGTAG	AAATGTGCAATCCATGGCTCCGTGGTC
<i>Dgat1</i>	GCCCCATGCGTGATTATT	TCTGTCAGGGCACCCACT
<i>Acox1</i>	TAACTT CCTCACTCGAAGCCA	AGTTCCATGACCCATCTCTGTC
<i>Mgat2</i>	GTGTGGGATTAGGGGGACTT	TCCCTGTTGTCCTTGGTC
<i>Mcad</i>	AGGGTTAGTTTGAGTTGACGG	CCCCGCTTTGTCATATTCCG
<i>Ehhadh</i>	ATGGCTGAGTATCTGAGGCTG	GGTCCAAACTAGCTTCTGGAG
<i>Fasn</i>	GGAGGTGGTGATAGCCGGTAT	TGGGTAATCCATAGAGCCCAG
<i>Pparg</i>	CCTGAAGCTCCAAGAACATCCA	GCCTGATGCTTATCCCCACA
<i>Mtp</i>	TGAGCGGCTATAAGCTCAC	CTGGAAGATGCTCTCTCGC
<i>Lipe</i>	AGTGCCTATT CAGGGACAGA	TGGGCGATGTGGTCTTT
<i>Mgat1</i>	CTGGTTCTGTTCCCGTTGT	TGGGTCAAGGCCATCTAAC
<i>Gpat3</i>	GTGCTGGGTGTCCTAGTGC	AAGCTGATCCAATGAAAGC
<i>Acly</i>	CAGTCCCAAGTCCAAGATCC	GTCTCGGGAGCAGACATAGT
<i>Hadha</i>	TGCATTGCCGCAGCTTAC	GTTGGCCCAGATTGTTCA
<i>Acadvl</i>	CTACTGTGCTTCAGGGACAAC	CAAAGGACTTCGATTCTGCC
<i>Cd36</i>	CTGTGGGCTCATTGCTGG	CGCCACGT CATCTGGTT
<i>Cpt2</i>	CAGCACAGCATCGTACCCA	TCCCAATGCCGTTCTCAAAAT
<i>Atgl</i>	GGATGGCGGCATTCAGACA	CAAAGGGTTGGTTGGTCAG
<i>Lpl</i>	ACTCGCTCTCAGATGCCCTA	TTGTGTTGCTGCCATTCTC
<i>Hprt1</i>	GCCCCAAAATGGTTAAGGTT	TTGCGCTCATCTTAGGCTTT

Supplementary Table 5. SYBR Green primer sequences used for quantitative RT-PCR.