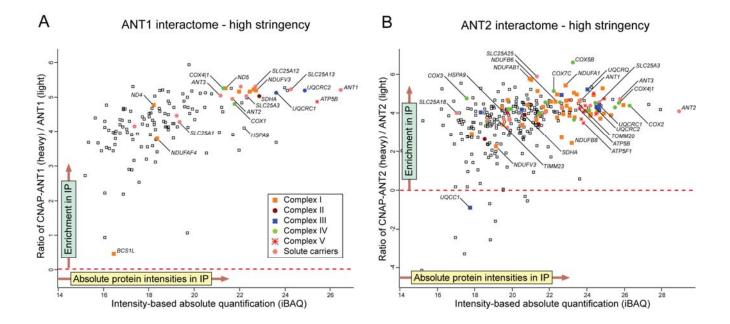
## Supplemental Materials Molecular Biology of the Cell

Lu et al.



## Supplementary Figure 1

Supplementary Figure 1. Overexpressed ANT1 and ANT2 in HEK293 Flp-In cells interact with numerous heterologous proteins, including respiratory subunits and other solute carriers. Scatter plot of proteins identified to interact with overexpressed CNAP-ANT1 (A) or CNAP-ANT2 (B) following a high stringency conditions (two consecutive rounds of immunoprecipitation).

Table S1 – Respiratory proteins identified to interact with ANT1, ANT2, or ANT1 and ANT2.

	ANT1			ANT2			ANT2vsANT1		
Complex	ND2	NDUFA13	NDUFC2	ND1	NDUFA13	NDUFS1	NDUFA1	NDUFB1	NDUFS2
I	ND4	NDUFAB1	NDUFS1	ND5	NDUFAB1	NDUFS2	NDUFA2	NDUFB3	NDUFS3
1	ND5	NDUFB1	NDUFS2	NDUFA1	NDUFB3	NDUFS3	NDUFA3	NDUFB4	NDUFS4
	NDUFA2	NDUFB3	NDUFS3	NDUFA2	NDUFB4	NDUFS4	NDUFA5	NDUFB5	NDUFS5
	NDUFA3	NDUFB4	NDUFS4	NDUFA3	NDUFB5	NDUFS5	NDUFA6	NDUFB6	NDUFS6
	NDUFA5	NDUFB5	NDUFS5	NDUFA5	NDUFB6	NDUFS6	NDUFA7	NDUFB7	NDUFS7
	NDUFA6	NDUFB6	NDUFS6	NDUFA6	NDUFB7	NDUFS7	NDUFA8	NDUFB8	NDUFS8
	NDUFA7	NDUFB7	NDUFS7	NDUFA7	NDUFB8	NDUFS8	NDUFA9	NDUFB9	NDUFV1
	NDUFA8	NDUFB8	NDUFS8	NDUFA8	NDUFB9	NDUFV1	NDUFA10	NDUFB10	NDUFV2
	NDUFA9	NDUFB9	NDUFV1	NDUFA9	NDUFB10	NDUFV2	NDUFA11	NDUFB11	NDUFV3
	NDUFA10	NDUFB10	NDUFV2	NDUFA10	NDUFB11	NDUFV3	NDUFA12	NDUFC2	
	NDUFA11	NDUFB11	NDUFV3	NDUFA11	NDUFC2		NDUFA13	NDUFS1	
	NDUFA12			NDUFA12			NDUFAB1		
Complex	SDHA	SDHB	SDHC	SDHA	SDHB	SDHC	SDHA	SDHB	SDHC
II									
Complex	UQCRC1	UQCR10	UQCRFS1	UQCRC1	CYTB	UQCRFS1	UQCRC1	UQCR10	UQCRFS1
Щ	UQCRC2	UQCRB	UQCRQ	UQCRC2	UQCR10	UQCRH	UQCRC2	UQCRB	UQCRH
	CYC1			CYC1	UQCRB	UQCRQ	CYC1		UQCRQ
Complex	COX1	COX5B	COX7A2L	COX2	COX5B	COX7A2L	COX2	COX6A1	COX7A2L
ΙΫ	COX2	COX6B1	COX7B	COX3	COX6B1	COX7C	COX3	COX6B1	COX7C
1,	COX4 1	COX6C	COX8A	COX4 1	COX6C		COX4 1	COX6C	
	COX5A	COX7A2		COX5A	COX7A2		COX5A	COX7A2	
Complex	ATP6	ATP5E	ATP5L	ATP6	ATP5F1	ATP5L	ATP6	ATP5D	ATP5J
V	ATP5A1	ATP5F1	ATP5O	ATP5A1	ATP5H	ATP5O	ATP8	ATP5E	ATP5L
· ·	ATP5B	ATP5H	ATP5S	ATP5B	ATP5I	ATP5S	ATP5A1	ATP5F1	ATP5O
	ATP5C1	ATP5I	ATPIF1	ATP5C1	ATP5J	ATP5SL	ATP5B	ATP5H	ATP5S
	ATP5D	ATP5J2		ATP5D	ATP5J2		ATP5C1	ATP5I	ATP5SL
Assembly	NDUFAF1	UQCC1	COX20	NDUFAF1	UQCC1	COX11	NDUFAF1	UQCC1	COX11
factors	NDUFAF2	UQCC2	SCO1	NDUFAF2	UQCC2	COX20	NDUFAF2	UQCC2	COX20
14013	NDUFAF3	COA1	SCO2	NDUFAF3	COA1	SCO1	NDUFAF3	COA1	SCO1
	NDUFAF4	COA3	BCS1L	NDUFAF4	COA3	SCO2	NDUFAF4	COA3	SCO2
	TIMMDC1			TIMMDC1			TIMMDC1	COA7	

<sup>\*</sup>For column 1 (ANT1) and column 2 (ANT2), proteins identified in low stringency IPs are indicated in regular font while those identified only in the high stringency IPs are in italics. Bolded proteins are identified in both low and high stringency iterations.

<sup>\*\*</sup>Coverage: For complex I subunits: ANT1 low, 35/44; ANT1 high, 6/44; ANT2 low, 33/44; ANT2 high, 36/44; Both, 35/44. For complex II subunits: ANT1 low, 3/4; ANT1 high, 1/4; ANT2 low, 3/4; ANT2 high, 3/4; Both, 3/4. For complex III subunits: ANT1 low, 7/10; ANT1 high, 2/10; ANT2 low, 8/10; ANT2 high, 9/10; Both, 8/10. For complex IV subunits: ANT1 low, 11/19; ANT1 high, 2/19; ANT2 low, 10/19; ANT2 high, 10/19; Both, 11/19. For complex V subunits: ANT1 low, 14/19; ANT1 high, 1/19; ANT2 low, 14/19; ANT2 high, 11/19; Both, 15/19. For associated assembly factors: ANT1 low, 15/40; ANT1 high, 5/40; ANT2 low, 15/40; ANT2 high, 13/40; Both, 16/40. Gene families from HUGO Gene Nomenclature Committee were used to determine coverage.

<sup>\*\*\*</sup>Only hits that have a heavy/light ratio of >0 are shown here.

Table S2 – Mitochondrial carriers identified to interact with ANT1, ANT2, or ANT1 and ANT2.

ANT1	ANT2	ANT2vsANT1
SLC25A1	SLC25A1	SLC25A1
SLC25A3	SLC25A3	SLC25A3
SLC25A10	SLC25A10	SLC25A10
SLC25A11	SLC25A11	SLC25A11
SLC25A12	SLC25A12	SLC25A12
SLC25A13	SLC25A13	SLC25A13
SLC25A18	SLC25A14	SLC25A15
SLC25A19	SLC25A15	SLC25A19
SLC25A20	SLC25A18	SLC25A20
SLC25A21	SLC25A19	SLC25A21
SLC25A23	SLC25A20	SLC25A22
SLC25A24	SLC25A21	SLC25A24
SLC25A25	SLC25A22	SLC25A25
	SLC25A24	SLC25A44
	SLC25A25	
	SLC25A32	
	SLC25A33	

<sup>\*</sup>For column 1 (ANT1) and column 2 (ANT2), proteins identified in low stringency IPs are indicated in regular font while those identified only in the high stringency IPs are in italics. Bolded proteins are identified in both low and high stringency iterations. Note that SLC25A4, SLC25A5, and SLC25A6, corresponding to ANT1, ANT2, and ANT3 respectively, are identified in all experimental runs but not noted here in the table.

<sup>\*\*</sup>Only hits that have a heavy/light ratio of >0 are shown here.

Table S3 – Mitochondrial proteins identified via mass spectrometry to interact with ANT1, ANT2, or ANT1 and ANT2. All the hits identified in each of the five experimental iterations are noted in separate sheets in one Excel file: ANT1 low, ANT1 high, ANT2 low, ANT2 high, and ANT2vsANT1. In the final iteration, eluates from CNAP-ANT1 (unlabeled) and CNAP-ANT2 (labeled) high stringency IPs were used as input material.