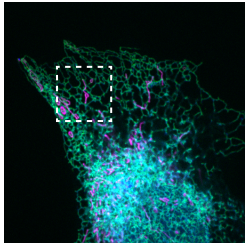


**A**

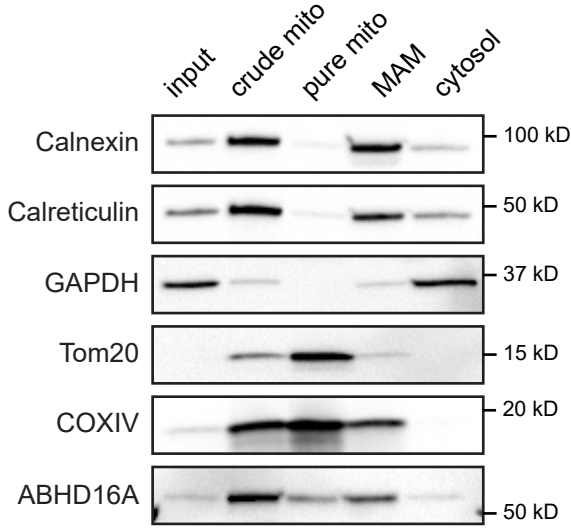
ABHD16A-mNG  
mCh-Sec61 $\beta$  (ER)  
mito-BFP (mito)



5μm

**B**

Equivalent protein loaded



**C**

Rank	Gene names	Mfn1 WT average LFQ intensity	Mfn1 E209A average LFQ intensity
1	ZNF236	841200000	0
2	CCDC191	198615000	0
3	B2M	108529500	0
4	EIF1AX;EIF1AY	71745000	0
5	ARL6IP1	71298500	0
6	TPI1	62838500	0
7	PKHD1	62315000	0
8	MMGT1	61065000	0
9	FAM98B	57155000	0
10	TMEM11	49045500	0
11	CCT5	48803500	0
12	PLGRKT	48439500	0
13	O95714	47864000	0
14	MYCBP2	45915000	0
15	NEMF	44394000	0
16	GOLPH3	43195000	0
17	IPO7	43071500	0
18	DNAJC19	38043500	0
19	<b>ABHD16A</b>	<b>36971500</b>	<b>0</b>
20	RDH14	36733500	0
21	PNN	36082500	0
22	KIF22	35806500	0
23	TSPAN8	34765000	0
24	MP68	33965000	0
25	SPPL2A	32493000	0

Rank	Gene names	Mfn1 WT average LFQ intensity	Mfn1 E209A average LFQ intensity
26	TMEM97	32421500	0
27	IDH3G	31053500	0
28	RFTN1	30724500	0
29	SPNS1	29447500	0
30	ATP2B1	28666000	0
31	NME3	28088500	0
32	AKAP1	27089500	0
33	PSMA4	26864500	0
34	NDUFB7	26606000	0
35	NDUFAF4	26083500	0
36	NOL12	25892000	0
37	CD70	25399500	0
38	TMA7	24627000	0
39	CSPG4	24396500	0
40	CISD3	24179500	0
41	ICMT	23906000	0
42	RBM22	23546000	0
43	CHD1	23317000	0
44	TMEM161A	22871000	0
45	VPS25	22531500	0
46	RAC2	21960000	0
47	SMARCB1	21258000	0
48	CLCN7	21125500	0
49	MCU	21001000	0
50	YTHDF2	20459000	0