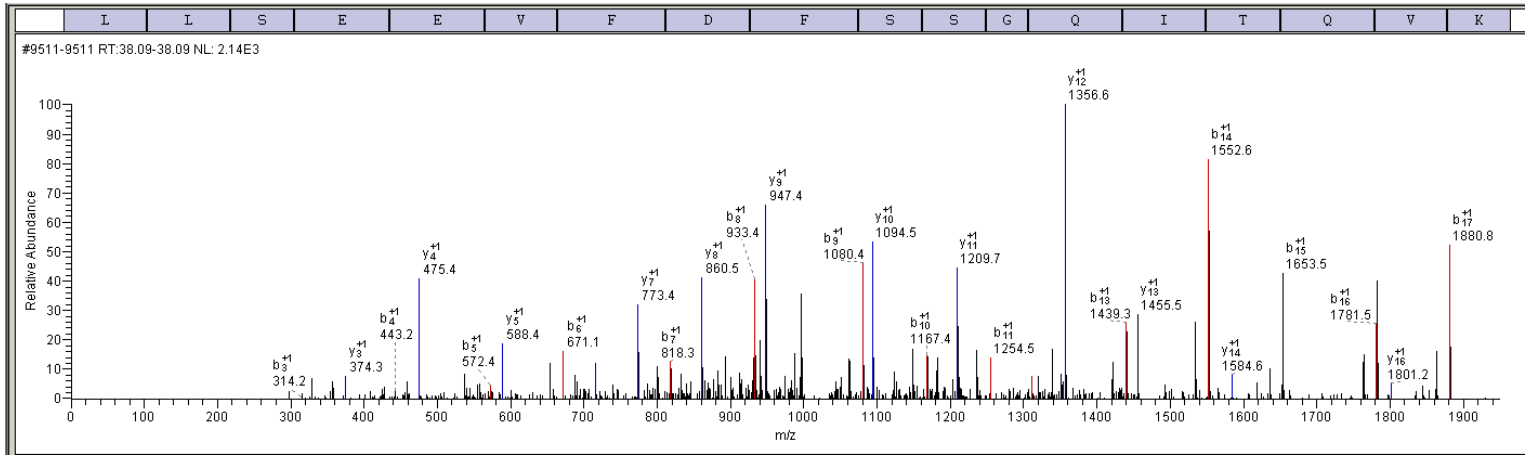
Fig. S1

A

Protein/peptide prophet probability	Sequence	Charge	Xcorr	dCn	Ions matched
1	K.LLSEEVFDFSSGQITQVK.S	2	5.166	0.6	70% (34)
1	K. EFAGEDTSDLFLEER.E	2	4.046	0.512	64% (28)
0.8833	K.IYLDMLNVYK.C	2	2.97	0.28	77% (18)
0.8718	K.AVGHPFVIQLGR.I	3	3.38	0.382	56% (44)
0.8622	K.YYGLQILENVIK.T	2	2.977	0.39	77% (22)
0.8622	K.DFEEYPEHR.E	2	2.154	0.347	75% (16)

B



C

	AA	B	Y	
1	L	114.09	-	18
2	L	227.18	1913.95	17
3	S	314.21	1800.87	16
4	E	443.25	1713.83	15
5	E	572.29	1584.79	14
6	V	671.36	1455.75	13
7	F	818.43	1356.68	12
8	D	933.46	1209.61	11
9	F	1080.52	1094.58	10
10	S	1167.56	947.52	9
11	S	1254.59	860.48	8
12	G	1311.61	773.45	7
13	Q	1439.67	716.43	6
14	I	1552.75	588.37	5
15	T	1653.80	475.29	4
16	Q	1781.86	374.24	3
17	V	1880.93	246.18	2
18	K	-	147.11	1

Fig. S2

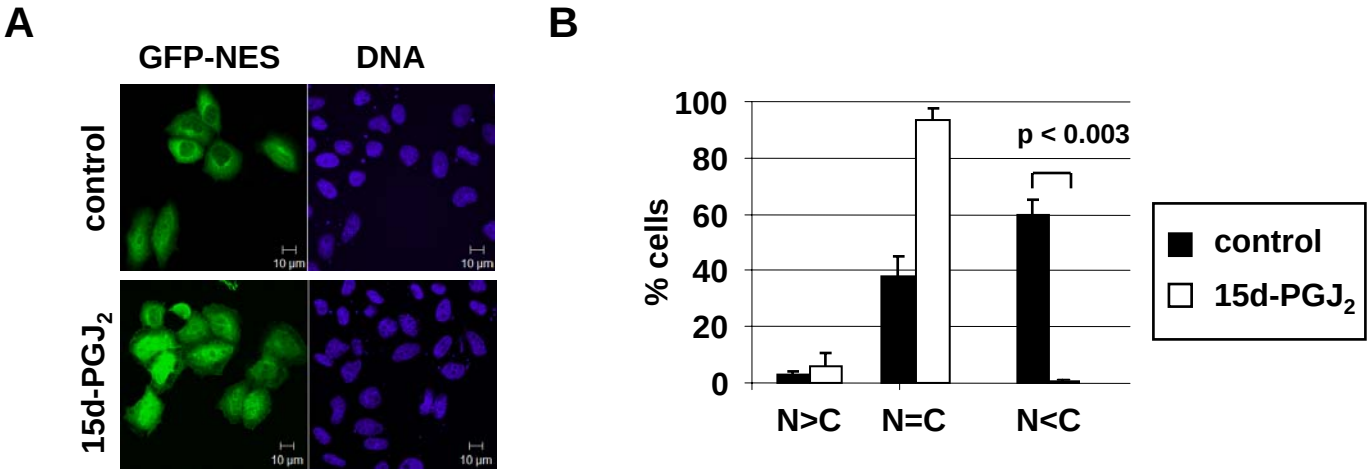

A
GFP-NES
DNA
control
15d-PGJ2
10 µm
B
100
80
60
40
20
0
% cells
p < 0.003
N>C
N=C
N<C
control
15d-PGJ2

Fig. S3

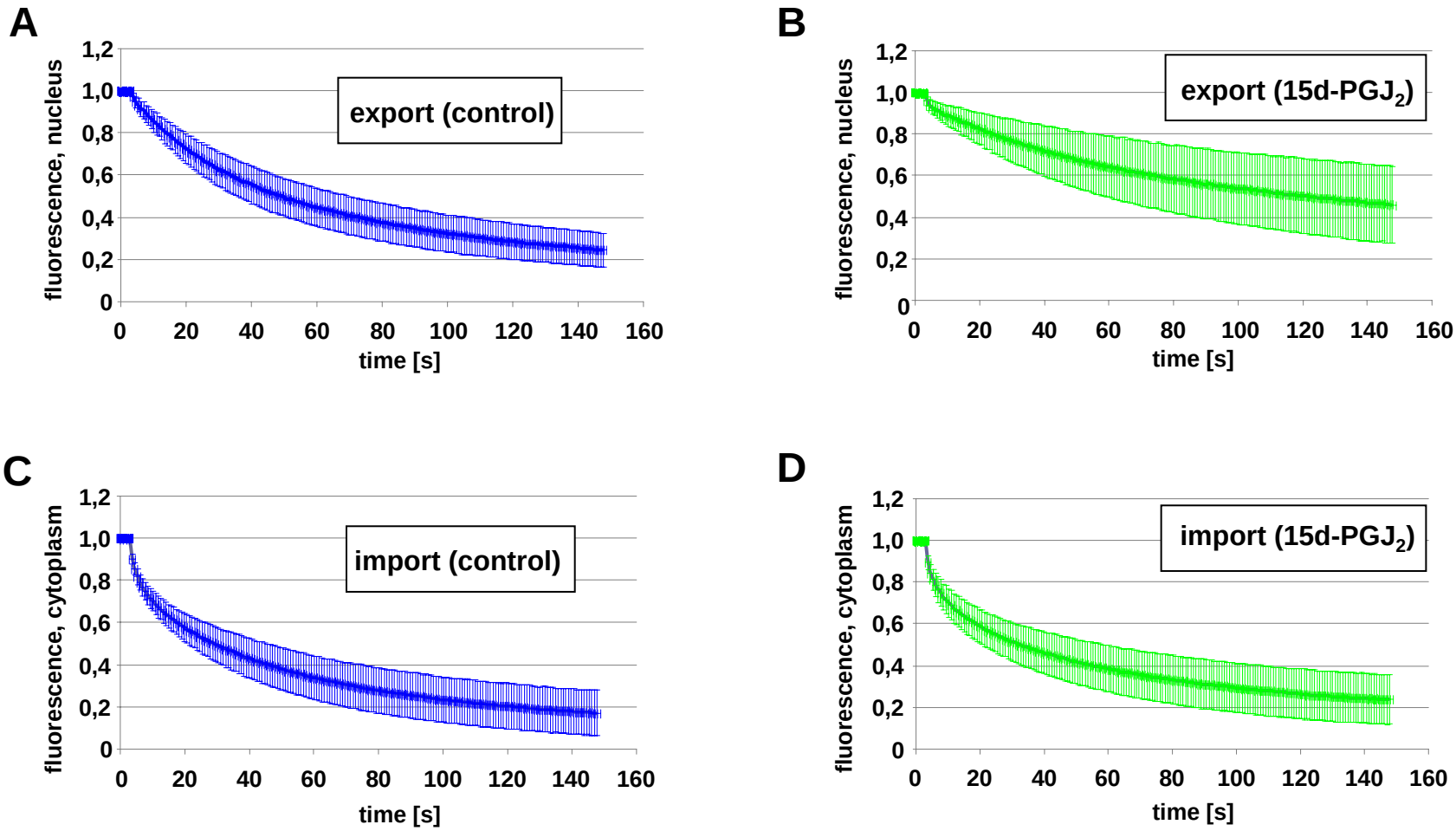
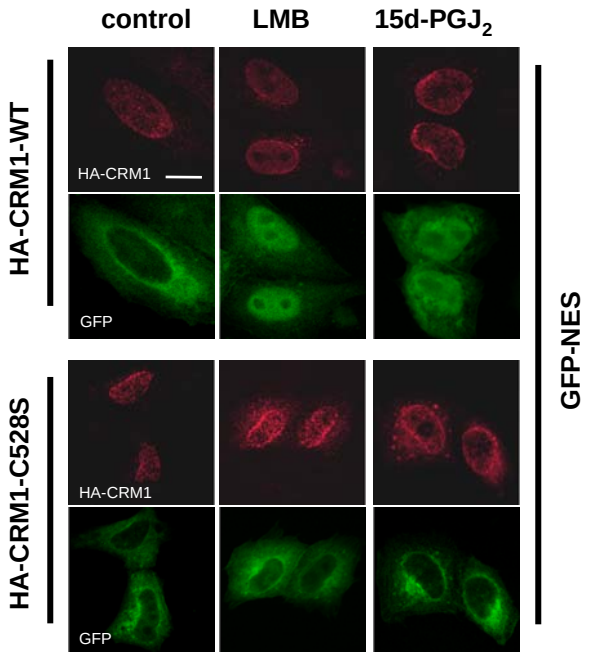
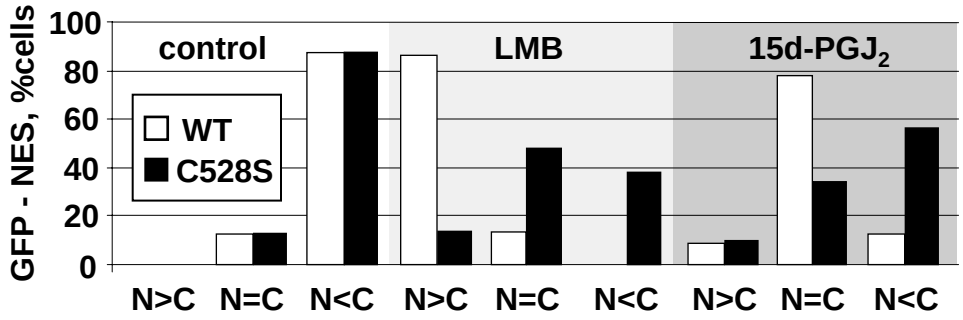

A
fluorescence, nucleus
export (control)
time [s]
B
fluorescence, nucleus
export (15d-PGJ2)
time [s]
C
fluorescence, cytoplasm
import (control)
time [s]
D
fluorescence, cytoplasm
import (15d-PGJ2)
time [s]

Fig. S4

A


control
LMB
15d-PGJ2
HA-CRM1-WT
HA-CRM1
GFP
HA-CRM1-C528S
HA-CRM1
GFP
GFP-NES

B


GFP - NES, %cells
100
80
60
40
20
0
control
LMB
15d-PGJ2
WT
C528S
N>C
N=C
N<C
N>C
N=C
N<C
N>C
N=C
N<C