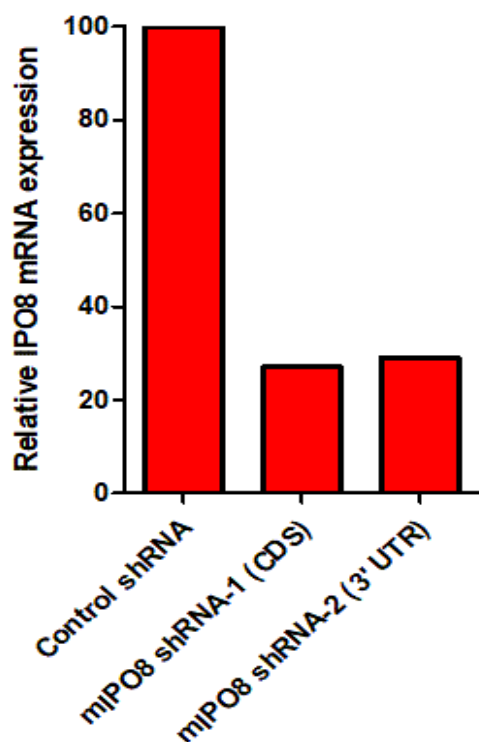


## Supplementary data

A



B

shRNA	Sequence (5'-3')
<b>Control shRNA</b> (Luciferase)	TACGCGCATAAGATTAGGG <b>TTCAAGAG</b> ACCCTAATCTTATGCGCGTA
<b>mIPO8 shRNA-1</b> (3070-3090)	GGACAACAGTGTGGATGAATAT <b>TTCAAGAG</b> ATATTCATCCACACTGTTGTCC
<b>mIPO8 shRNA-2</b> (3805-3825)	GCATCCTTGCTTCCTTCAACCT <b>TTCAAGAG</b> AGTTGAAGGAAGCAAGGATGC

**Figure S1. Efficiency (A) and sequence (B) of the two shRNA directed against mIPO8 that were selected.** qRT-PCR was performed on FACS selected Neuro-2A cells to evaluate the efficiency of the shRNAs. The position of the targeted sequence on the mRNA (NM\_001081113) is given and the nucleotides forming the loop are in bold.

<b>mlIPO8 shRNA-1</b>	G GAC AAC AGT GTG GAT GAA TA
	L D N S V D E Y
<b>hiIPO8*</b>	CTT <u>GAT</u> <u>AAT</u> <u>TCC</u> <u>GTA</u> <u>GAC</u> <u>GAG</u> TAT

**Figure S2. Nucleotide sequences of mouse IPO8 targeted by shRNA-1 and of the mutated human IPO8 transcript (hiIPO8\*) generated to make it resistant to shRNA-1.** The nucleotides in bold and underlined differ between the mutated human and wild-type mouse sequences. The amino acids they encode are identical.

<b>mlIPO8-F</b>	CTTCCTGGGACACCATGACC	2701-2720	(overlap exons 21-22)
<b>mlIPO8-R</b>	GACATGCGCCGATACACAAC	3583-3564	(exon 25)

**Figure S3. Sequences of the primers used for RT-PCR, their location along the mRNA (NM\_001081113) and corresponding exon number.**

<b>mlIPO8-F</b>	CGTGACAACATTGTGGAAGG	497-516	(exon 3)
<b>mlIPO8-R</b>	CCAGTGACCAGGAAAATCGT	601-582	(exon 4)
<b>mlIPO7-F</b>	TCAGAACAACACTGGATTACCTGTG	133-156	(exon 2)
<b>mlIPO7-R</b>	CGATCAGGCCAATATTGTGTTA	212-191	(exon 3)

**Figure S4. Sequences of the primers used for qRT-PCR, their location along the mRNA and corresponding exon number (Shimada et al., 2009; Sangel et al., 2014).**

### Supplementary data References

Sangel P, Oka M, Yoneda Y (2014) The role of importin-βs in the maintenance and lineage commitment of mouse embryonic stem cells. *FEBS Open Bio*, 4, 112-20

Shimada I, Matsui K, Iida R, Tsubota E, Matsuki T. (2009). Time course of housekeeping gene expression changes in diffuse alveolar damage induced by hyperoxia exposure in mice. *Leg. Med.* 11, S151–S154