

Supplementary Material

P23 acts as functional RBP in the macrophage inflammation response

Sebastian de Vries¹, Vladimir Benes², Isabel S. Naarmann-de Vries^{1,#}, Cornelia Rücklé^{3,Δ}, Katharina Zarnack³, Gernot Marx¹, Dirk H. Ostareck¹ and Antje Ostareck-Lederer¹

¹Department of Intensive Care Medicine, University Hospital RWTH Aachen, Germany; ²Genomics Core Facility, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany, ³Buchmann Institute of Molecular Life Science, Goethe University Frankfurt, Germany

present address:

[#]Section of Bioinformatics and Systems Cardiology, University Hospital Heidelberg, Germany

^ΔInstitute of Molecular Biology (IMB), Mainz, Germany

List of siRNAs, FISH probe, antibodies, primers

siRNAs

siRNA	Sequence	Reference
si-P23-749	AAGACAGTGATGATGAAAAGA	Rao et al., 2006
si-P23-1672	CTAATAAACTGTTGGAAGA	
si-Kif15-544	GCTCCTTTATTGAGGTCTA	
si-Kif15-2481	GCTGACAAAGAACTTTCTT	
scr	AGGUAGUGUAAUCGCCUUG	Naarmann et al., 2008

FISH probe

mRNA	Gene ID	Binding region
Kif15	209737	1452-1481

Antibodies for Western blot (WB) and immunofluorescence staining (IF)

Name	Company	Catalogue number	Dilution (WB)	Dilution (IF)
VINCULIN	Merck, Darmstadt, Germany	V9131	1:3000	
GAPDH	Abcam, Cambridge, UK	8245-100	1:5000	
P23 (JJ3)	Novus Biologicals, Centennial, CO, USA	NB 300-57	1:1000	1:200
HSP90 (F-8)	Santa Cruz, Dallas, TX, USA	sc-13119	1:200	
KIF15	Proteintech, Rosemont, IL, Texas	55407-1-AP	1:1000	
CK2A1	Proteintech, Rosemont, IL, Texas	10992-1-AP	1:1000	

qPCR primer

target	Primer	Sequence 5' – 3'	Reference
Luciferase firefly	fw	CCTTCCGCATAGAACTGCCT	Liepelt et al., 2014
	rv	GGTTGGTACTAGCAACGCAC	
Kif15	fw	GACAAGGAACTTGTACCAACCTC	
	rv	CATGTCCCTCTCGATGTCCTCTG	
Kif1b	fw	CTTTGAGCACACTGAGATACGC	
	rv	CAATAATATCTCCCAGTCCCTGAGC	
Kif13a	fw	CATAAAGCACAGTGATGACGAGG	
	rv	CAAACCTCTGGGTGAACTCTGC	
Ndufv1	fw	GCCTCCAATTTGCAGGTAGCTAT	Liepelt et al., 2014
	rv	CACGCACCACAAACACATCA	
Tnf-α	fw	TCCCCAAAGGGATGAGAAG	Liepelt et al., 2014
	rv	GCACCACTAGTTGGTTGTC	
Il-1β	fw	AAACCTTTGACCTGGGCTGTCCTG	Liepelt et al., 2014
	rv	AGAGGATGGGCTCTTCTTC	
P23	fw	CACCATGCAGCCTGCTTCTG	
	rv	TCGCTTCCTCCAAGACAACCTG	
Actb	fw	CTCTAGACTTCGAGCAGGAGATGG	Borkham-Kamphorst et al., 2013
	rv	ATGCCACAGGATTCCATACCCAAGA	

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Supplementary Figure 1. Multiple repetitions of the U/G-rich motif occur in the 3'UTRs of the P23-interacting mRNAs.

Colored boxes represent instances of the U/G-rich motif shown in Figure 3A, with height and color indicating *p*-value, as predicted by MAST. Only motifs with an *p*-value less than 0.0001 are shown (same settings as in MAST standard output). Ensembl gene ID and gene name are given for each gene. 3'UTRs are drawn to scale.

Supplementary Figure 1

