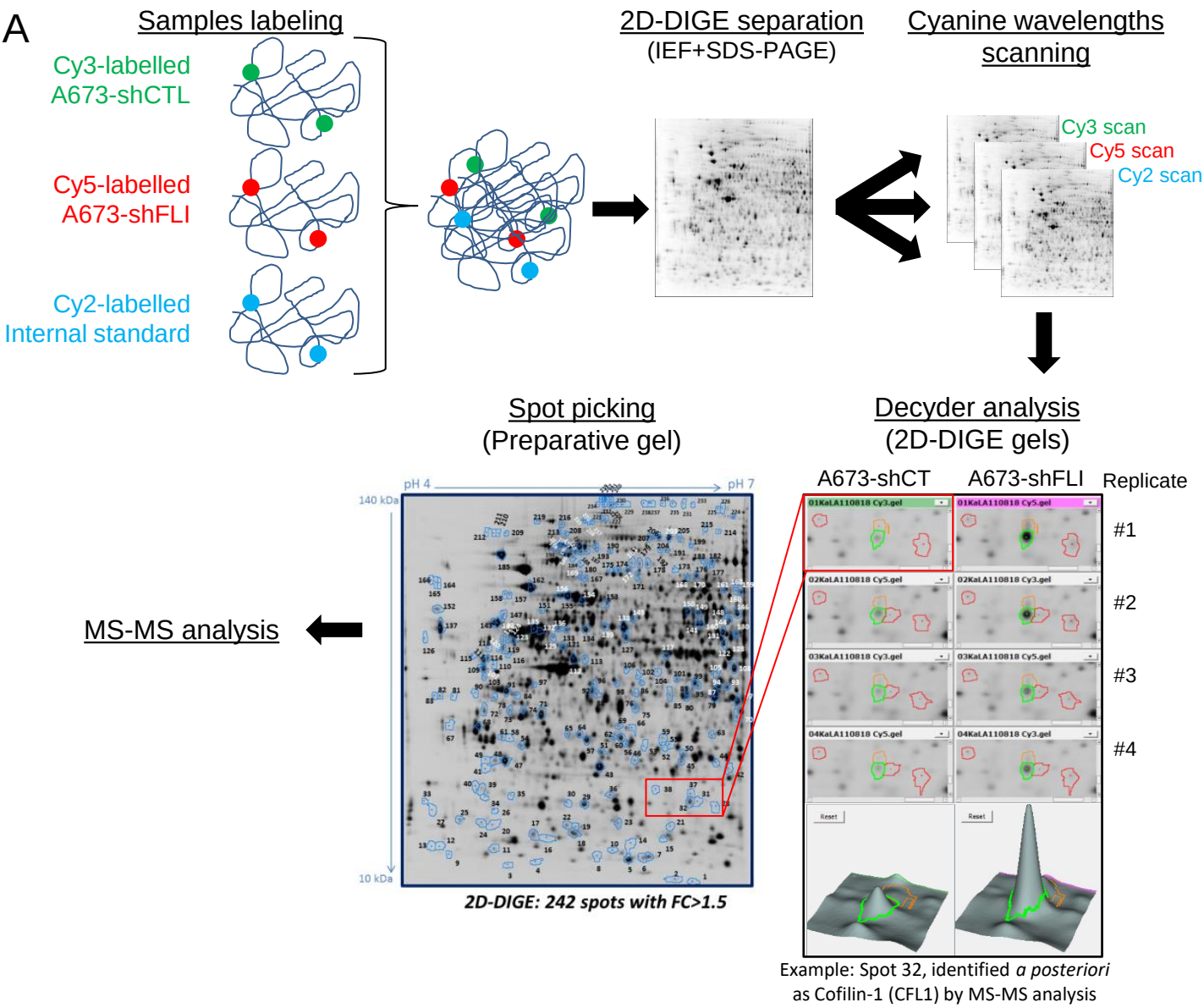
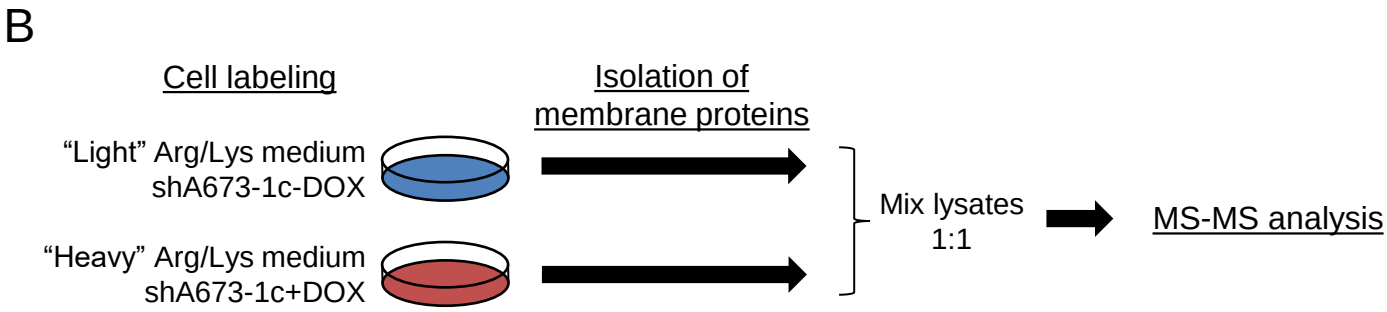




Supplementary figure S1, related to figure 1 : 2D-DIGE and SILAC proteomic approaches reveal a modulation of expression of proteins implicated in cytoskeleton organization, cell-cell and cell-matrix interactions.

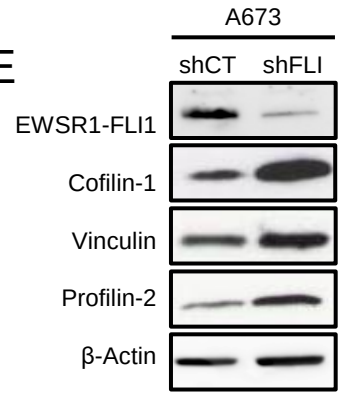
C

Top Canonical Pathways (2D-DIGE)	
Name	p-value
Aryl Hydrocarbon Receptor Signaling	1,55E-07
Actin Cytoskeleton Signaling	1,09E-06
RhoA Signaling	3,41E-06
Regulation of Actin-based Motility by Rho	5,22E-06

D

2D-DIGE identified proteins	Gene name	A673 shFLI/shCT	
		Average Ratio	T-test
Actin cytoskeleton signaling / RhoA signaling / Regulation of actin-based motility by Rho			
Alpha-actinin-4	ACTN4	1.5	5.3E-07
Cofilin-1	CFL1	3.8	3.0E-04
Gelsolin	GSN	4.6	2.6E-08
Moesin	MSN	1.6	9.1E-04
Myosin light polypeptide 6	MYL6	1.5	9.6E-03
Myosin regulatory light chain 12A	MYL12A	1.7	1.9E-03
Myosin regulatory light chain 2, skeletal muscle isoform	MYLPF	5.8	7.9E-09
Profilin-2	PFN2	2.2	3.2E-07
Radixin	RDX	1.8	2.5E-05
Vinculin	VCL	3.5	1.5E-07

E

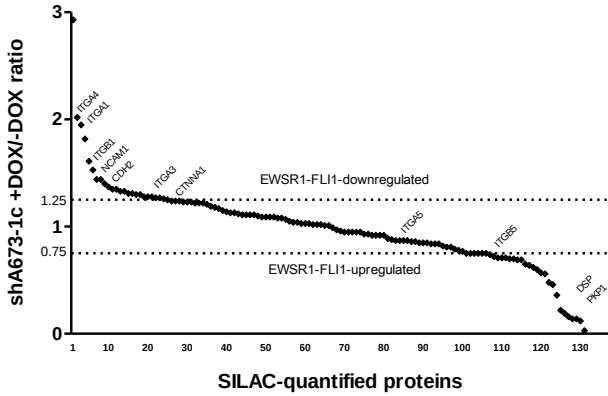


F

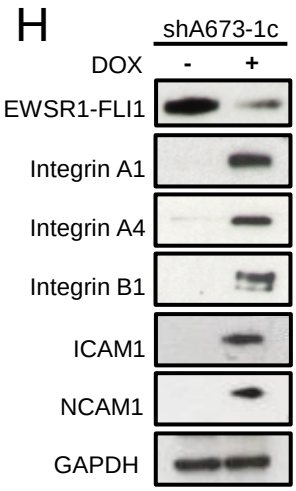
Molecular and cell functions (SILAC)	
Name	p-value
Cellular Movement	2.24E-18 - 4.88E-03
Cell-To-Cell Signaling and Interaction	3.17E-15 - 4.58E-03
Cell Morphology	8.95E-15 - 4.58E-03
Cell Death	3.98E-10 - 4.88E-03
Cellular Growth and Proliferation	7.99E-10 - 3.25E-03

G

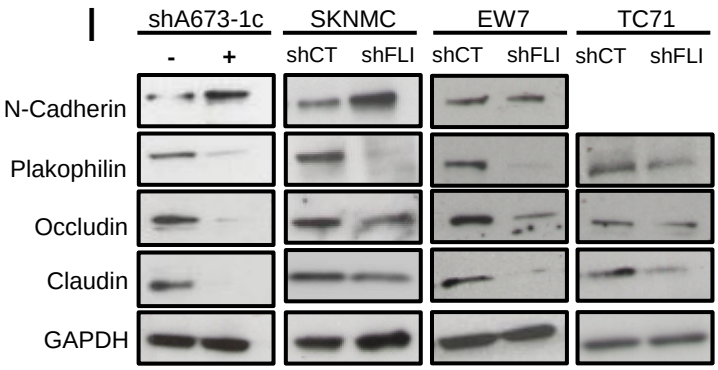
SILAC identified proteins	Gene name	Ratio shA673-1c +Dox/-Dox	Intensity shA673-1c +Dox	Intensity shA673-1c -Dox
Cell to cell signaling and interaction/Cellular Movement				
Plakophilin	PKP1	0.16	27915000	110610000
Desmoplakin	DSP	0.22	35079000	19656000
Integrin beta-5	ITGB5	0.75	4369400	4780000
Integrin alpha-5	ITGA5	0.87	32049000	31580000
Catenin alpha-1	CTNNA1	1.24	4575900	4781500
Integrin alpha-3	ITGA3	1.27	9115200	11693000
N-Cadherin	CDH2	1.37	14751000	19889000
Neural cell adhesion molecule	NCAM1	1.44	25480000	40308000
Integrin beta-1	ITGB1	1.61	391060000	543790000
Integrin alpha-1	ITGA1	1.95	39014000	83397000
Integrin alpha-4	ITGA4	2.02	13362000	29444000

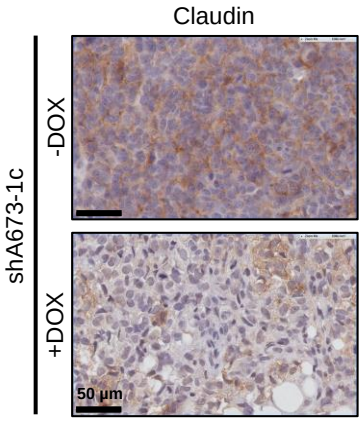


H

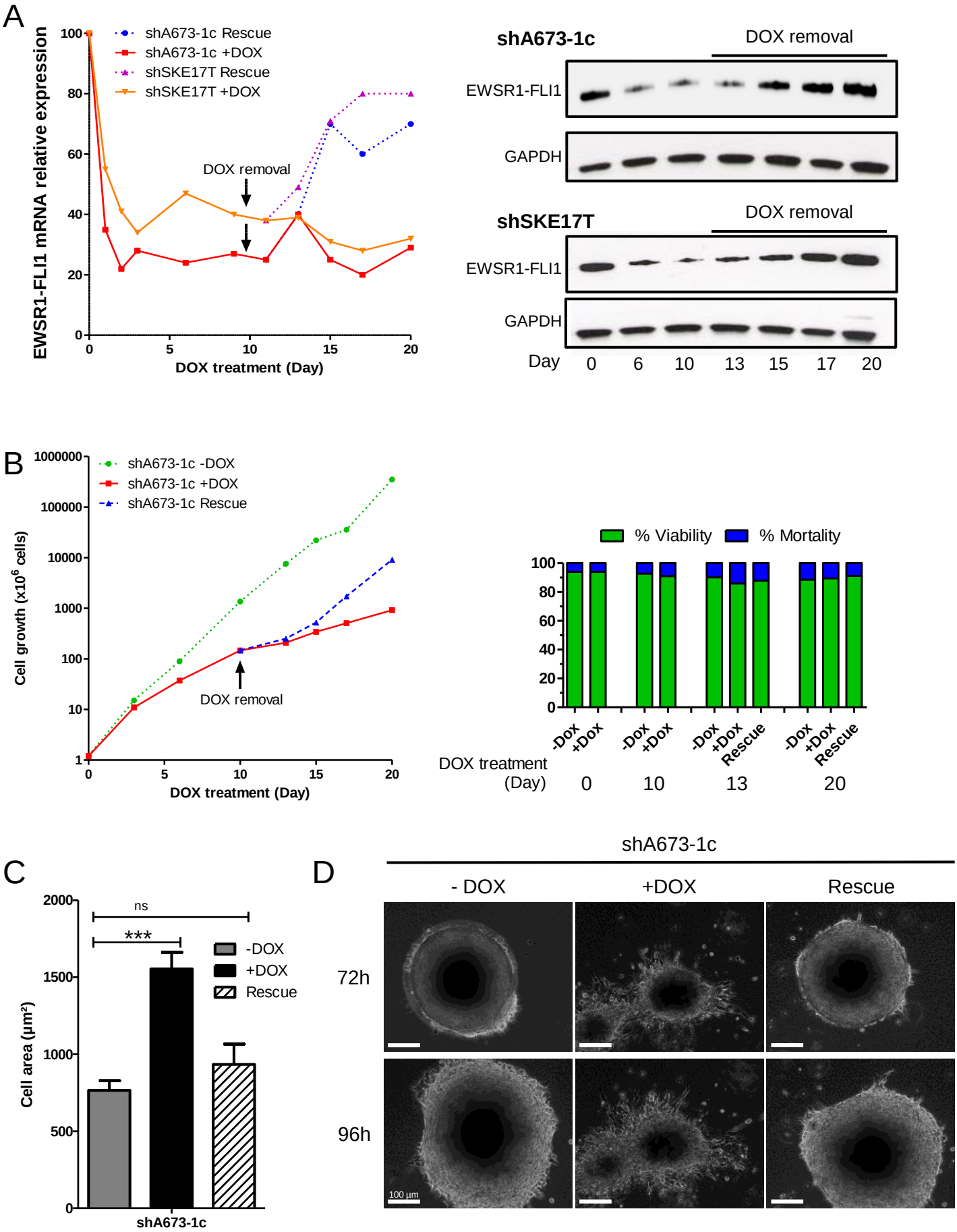


I

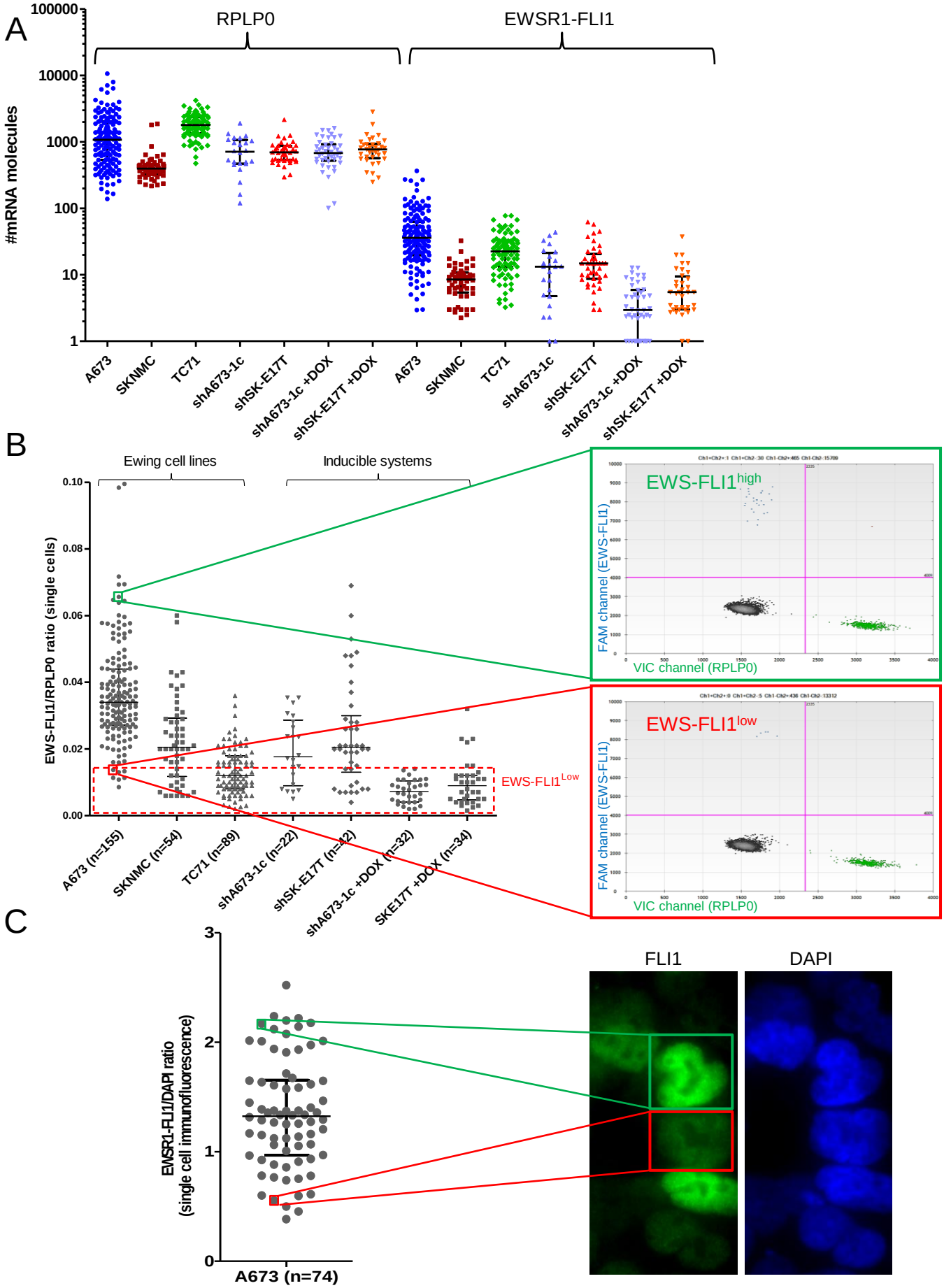




Supplementary figure S1, related to figure 1 : 2D-DIGE and SILAC proteomic approaches reveal a modulation of expression of proteins implicated in cytoskeleton organization, cell-cell and cell-matrix interactions.

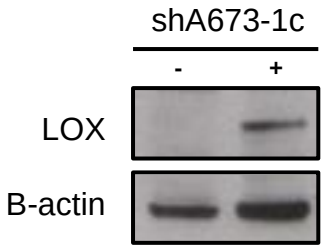


Supplementary figure S2, related to figure 1 and 4 : shA673-1c and shSK-E17T clones expressing a DOX inducible shRNA against EWSR1-FLI1.

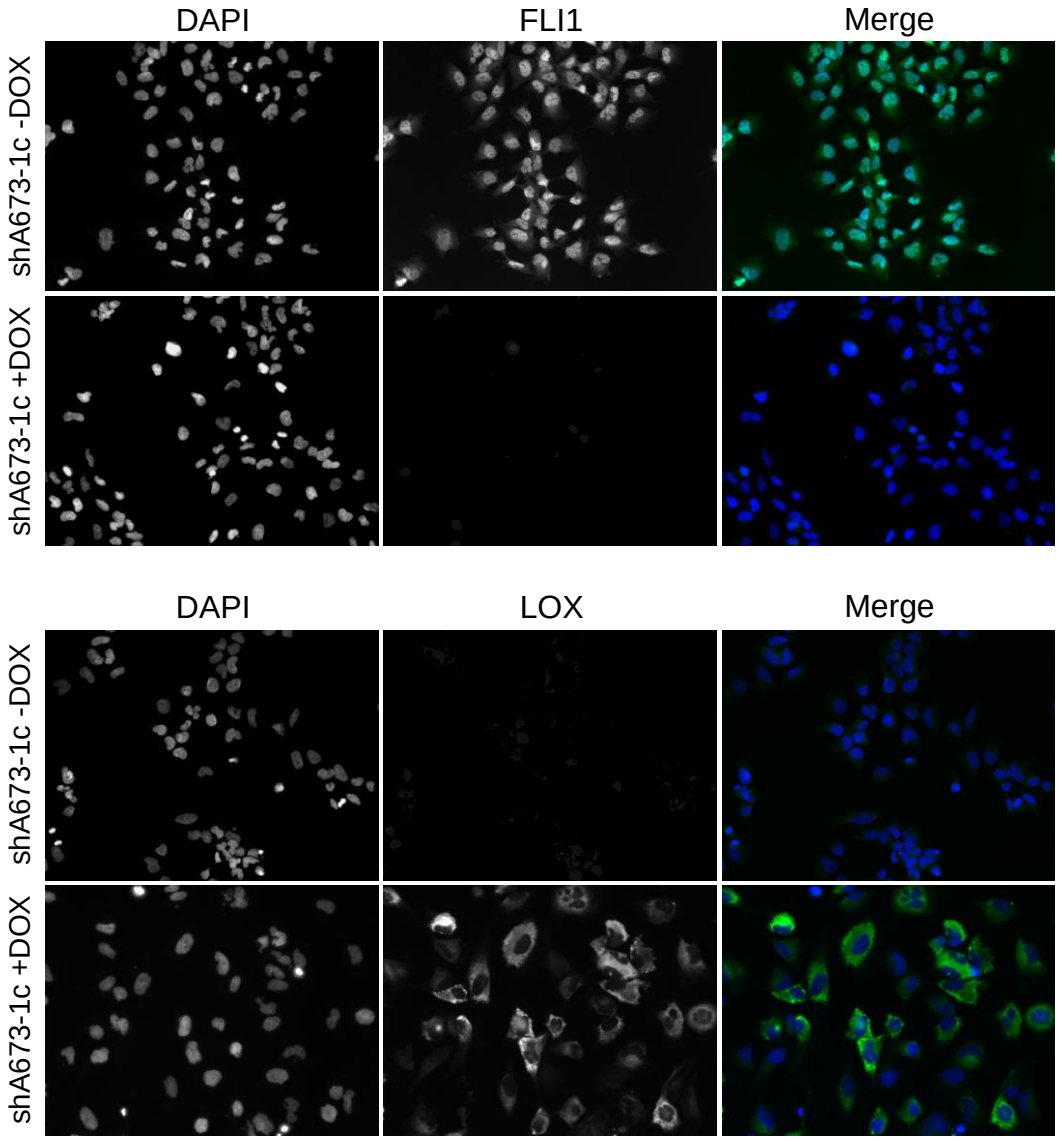


Supplementary figure S3, related to figure 2: EWSR1-FLI1 expression is heterogeneous in Ewing cell lines.

A



B



Supplementary figure S4, related to figure 3 : LOX is down regulated by EWSR1-FLI1