

Supplementary materials

Supplementary Datasets.

Dataset S1. Data of LC-MS/MS of immunoprecipitation 1 and 2.

Dataset S2. RNA sequence analysis of the gene expression profile of shLOXL2 silenced cells versus shSCR control cells.

Dataset S3. List of bibliographic references with experimental evidences of involvement in EMT of the EMT-related gene signature.

Supplementary figure legends.

Figure S1. Silencing of LOXL2 in Hs578T and MDA-MB-231 cell lines. LOXL2 silencing using shRNAs (shLOXL2) and a scramble control (shSCR) sequence was confirmed by qPCR (left panel) and WB (right panel).

Figure S2. Distribution of RBP targets among EMT-related DEGs. Red or grey squares denoted the presence or absence of RBPs binding sites respectively

Figure S3. Distribution of RBP targets among no EMT-related DEGs. Red or grey squares denoted the presence or absence of RBPs binding sites respectively.

Supplementary table.

Table S1. Number of genes targeted by the selected RBPs in EMT- and no EMT-related signatures.

Table S2. List of primers used for qPCR analyses.

Table S1

Table S1. Distribution of genes targeted by the indicated RBP in EMT-related and no EMT-related signatures. The p-value was obtained by analysing the enrichment of RBPs hits between both categories using the Fisher's exact test.

RBP	EMT-related	no EMT-related	p-value
CSTF2T	16	46	0.1775
DDX3X	0	0	na
DDX54	24	71	0.1213
DGCR8	18	72	0.8854
DHX9	47	176	0.4586
ELAVL1	42	77	4.1E-06
FMR1	75	258	0.0327
FUS	12	40	0.4659
HNRNPA1	85	180	0.137
HNRNPC	30	99	0.212
HNRNPK	8	26	0.5064
IGF2BP1	21	53	0.0419
IGF2BP2	31	104	0.2673
IGF2BP3	18	52	0.1514
LIN28B	13	35	0.1817
METTL3	0	0	na
MOV10	15	37	1.000
RBFOX	39	134	0.2143
SRSF1	32	95	0.0175
TAF15	68	224	0.0248
TARDBP	30	127	1.000
U2AF2	59	192	0.0381
WTAP	0	0	na
YTHDC1	3	8	0.4528

Table S2

Table S2: list of primers used for qPCR analysis.

Gene	Forward primer (5'→3')	Reverse primer (5'→3')
AKR1C2	CAGAGGTTCTAAAGTAAAGC	TGTGCAGAACATCAATATGGTG
CCL2	AGACTAACCCAGAACATCC	ATTGATTGCATCCTGGCTG
CLDN1	TTGGCATGAAGTGTATGAAG	ACCTGCAAGAAGAAATATCG
CXCL3	CCTCAAGAACATCCAAAGTG	CCCCCTGTTCAAGTATCTTTC
DUSP6	TTCTACCTGGAAGATGAAGC	CAATGTCATGGCATCGTTC
ENPP2	ATAAAACAGTACGTGGAAGG	CTACCCATTTGATTGTGCC
GAPDH	CTTCACCACCATGGAGGGAGGC	GGCATGGACTGTGGTCATGAG
HEY2	GGATTATAGAGAAAGGCGTC	GTTTTCAAAGCAGTTGGC
ID1	ACTAAGTCACCAGAGACTTAG	AAATCTGAGAACGACCAAAC
SLC2A3	GGATAACTATAATGGGATGAGC	CCACAATAAACCAAGGGAAATG
SOD2	ATCATACCCTAATGATCCCAG	AGGACCTTATAGGGTTTCAG
TULP3	AGGTCCCTAGGAAAATGTCTG	AAGTTGAGGACATAGGACTG