

Supplementary Information

Enhanced metastatic potential in the MB49 urothelial carcinoma model

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Supplementary Table 1. Incidence of lung metastasis in a pilot test of MB49 sub-clones.

MB49 line	mice with lung metastases
parental	0/2
F1	0/3
F2	0/3
F3	0/3
S1	3/3
S2	1/2
S3	0/4
S4	1/4
S5	1/6

The lung metastasis incidence of eight candidate MB49 sub-clones was measured 10-21 days following subcutaneous implantation into C57BL/6 mice.

Supplementary Table 2. Primer sequences used in qPCR.

	Gene name	Forward	Reverse
	DCN	TTCCTACTCGGCTGT GAGTC	AAGTTGAATGGCAG AACGC
Basal marker genes	CD44	TTTGCAATGCAGTC AACAGTC	GTTACACCCCAATC TTCATGTCCAC
	KRT5	TCTGCCATCACCCC ATCTGT	CCTCCGCCAGAACT GTAGGA
	KRT6B	GCTCAAACATAGGC TCCAGGTT	CCATCAAGAGTCAA ACTAGCCAC
	KRT14	AGCGGCAAGAGTGA GATTTCT	CCTCCAGGTTATTCT CCAGGG
CSC marker genes	ALDH1A1	TGATGTTGTCAGCC CAGTGC	TTGCGACTGTCTTG AGC
	CD49	TCTATTCCTGTTGCC GTCACAA	CGATGACAGCATT CCCGATA
	CK14	CGGCCCACTGAGAT CAAAGAC	AAATGCCAAGCCCC ATTTTAGG
	CD90	CTGCAGCTAGGGGA GTCCAG	GATGACCCCTAATG TCCAGGTC
EMT marker genes	ITGA5	CTTCTCCGTGGAGTT TTACCG	GCTGTCAAATTGAA TGGTGGTG
	ITGB1	ATGCCAAATCTTGC GGAGAAT	TTTGCTGAGATTGG TGACATT
	ACTA2 (αSMA)	GTCCAGACATCAG GGAGTAA	TCGGATACTTCAGA GTCAGGA
	FN1	GCTCAGCAAATCGT GCAGC	CTAGGTAGGTCCGT TCCCACT
	CDH2 (N-cadherin)	TCGCTGCTTTCATAC TGAAC TTT	AGCGCAGTCTTACC GAAGG
	TWIST1	GGACAAGCTGAGCA AGATTCA	CGGAGAAGGCGTAG CTGAG
Internal control genes	GOT1	GCGCCTCCATCAGT CTTTG	ATTCATCTGTGCGG TACGCTC
	HPRT	TCAGTCAACGGGGG ACATAAA	GGGGCTGTACTGCT TAACCAG
	GAPDH	AGGTCGGTGTGAAC GGATTTG	TGTAGACCATGTAG TTGAGGTCA