

Supplemental Material to:

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**Gadd45a inhibits cell migration and invasion by altering
the global RNA expression**

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Supplementary Table 1

The aberrant genomic regions and its related genes in Gadd45 -/- cells.

Genome Location	Fold Change	Gene symbol	RefSeq.
chrY:9448448-9450832	0.07	Ssty1	NM_009220
chr12:76329361-76488943	0.27	Smoc1	NM_022316
chrY:36855188-36881382	0.29	Q810R0	NM_201530
chr11:87035475-87157487	0.48	Tex14	NM_031386.2
chr4:117697888-117729401	0.49	Q9D9N6	AK006668
chr4:115896237-116019924	2.22	Prnpip1	NM_080469
chr6:3778060-3788083	2.48	Bet1	AK078796

Legends: Fold change epresented the fold change of aberration region in Gadd45a defective cells compared to wild type cells.

Supplementary Table 2

The aberrant methylation regions and its related genes in Gadd45 -/- cells.

Genome Location	Fold Change	Gene symbol	RefSeq.
chr1:49670437-49671004	0.47	Tmeff2	NM_019790
		Scyl2	NM_198021
chr10:89115306-89116525	0.53	Actr6	NM_025914
		Pftk1	NM_011074
chr5:5078426-5078954	0.70	Fzd1	NM_021457
		Etv1	AK032224
chr12:40473520-40473860	0.63	Arl4a	NM_001039515
		Clcn2	NM_009900
chr16:20629884-20630316	2.08	Polr2h	NM_145632
chr9:3000029-3029848	1.35	4930433N12Rik	NM_053265
		4931408C20Rik	NM_001033764
chr1:30104082-30104978	1.18	AK087209	AK087209

Legends: Fold change epresented the fold change of aberration region in Gadd45a defective cells compared to wild type cells.

Supplementary Table 3

Primers for Real-time PCR validation.

Gene symbol	Forward Primer	Reverse Primer
Mmp3	AGCAGGTTATCCTAAAAGCATT C	TTTCTTCTCATCAAACCTCCAGTA
Col3a1	TGGGGTGGAGGGAGTTTACA	CACTTGTGGCTTCTGACTATCTT C
Col1a2	TCATTGGGATGGTCTACTCA C	TCAGAACCAAATGGACTACGC
Lama4	TCACTATGACCTGTCCGTTTCTC	TGCCGCCGATGACTTTAGA
Vcam1	GTGAAGGGATTAACGAGGCTGG	GTGCAGGAGATAATGACGGTGTC
Krt18	TTGCTGAGGTCCTGAGATTTG	ACCCTCCCGAGATTACAACC
Krt19	AAGGCGTGTCTGTCTCAAAC	TTCCTGGTGCTCATCTTGTTAC
Alcam	CTCGTTGCTGGTGTCTCTA	AATCCGCTCCTCTCTTAGGC
Igsf4a	CCCTTAGCACCCATCCTGA	TGTCAACATTGTAAGCCATAAAG T
Itgb1	ACAGAGCCCCAAAACCTACCC	GTTGTCTCCTGCGACTTCA
GAPDH	GTTGTCTCCTGCGACTTCA	TGGTCCAGGGTTTCTTACTC