

# Targeted methylation of the epithelial cell adhesion molecule (EpCAM) promoter to silence its expression in ovarian cancer cells

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## Supplementary information S1: Primer and amplicon sequences

### Sequences of primers used for bisulfite DNA methylation analysis

Gene name	Primer sequence
KIAA0179	For: 5'- TTYGTTTTTTTTTGGTTAAGTTT-3'
	Rev: 5'-RCCCACCTATCTCCCTCTA-3'
DSCR3	For: 5'-TTTTTAAGTTTTAGAGTTTGGGGT-3'
	Rev: 5'ATACCTACCCTCCTCAAATATCCTTAA-3'
SUMO3	For: 5'-GGGTTTTGGGATTTTTGTT-3'
	Rev: 5'-AACCTCCAATACCTCAATTTCT-3'
EpCAM	For: 5'-CTTTTTAAGGTTTTAGAGTAG-3'
	Rev: 5'-AAAAAATAAATAAACTCCCCTCCC-3'
WRB	For: 5'-GTAAGTGGTTGTTTGGTTTTTTAA-3'
	Rev: 5'-AAACACTAAAACTCCCAATATAAAAT-3'

### Amplicon sequences

KIAA0179

TAACCCTGGCTAACCTCGCCGTCTACAGCCTGAATTTTGGCAACCGAAAGGCAGCGCC  
GGCGCCACGTGCACACGGGCTGGGCCGCTCCGCCAGCTGCCAGGGCCACTGCCGCG  
CTCACTCCCAGAGCGCGCTGCGAGCCGCGGCCCTTTGTGACGCCATCAGCCCGCGC  
GCCGCCGCCGCCCTTCTGTGCAGTCGCGGCCCGGGCGGACGGTGGCTGGCTGCT  
CCGCAGCGCTCGGCTGGCTGCAGCGGCACCGCGGGTTGCGCGGCCGGGGATGCTCC  
AGCGGGCGCGATGGCCCCCGCCATGCAGCCGCGCGAGATCCAATTTGCCAGCGGCT  
GGCGTCCAGCGAGAAGGGCATCCGGGACCGAGCGGTGAAGAAGCTGCGCCAGTACAT  
CAGCGTGAAGACG

DSCR3

CGTGCCTTTCCACCCTTCACGCGGGGCGCACGGATCTGAATATTTAACACCCGGTTCCA  
GGACACGCGCCTGGGGAACACCCACAATCCCTCGCGGCCCGCGGAGCCCGGCTGGC  
GGGTGACCCAGCGCCCCGCGGCTCCGAGAGGAGCGAGGTCACCCGGCGCTTCCCGAG  
ACCTTGCCCTAGGCCAGCTGGCGCTGGGACGCGAGGCAACCGAGCCGCCGGCCAA  
TCAGCGCTTTGCAGGACTAGCACGCAGGGGCCGCACCCCTGAGGGTGACCGGAACCG

CTCCCGCGGGAAGGGCAGGGTGCGGCGCCTGGCCGCAGACAGACAAGGGGGCGCCG  
GCTCTTCAGAACCCCAAGGAGAAAGCGGTGGAGGGCTAGAGTTGAGGAGA

### SUMO3

CGCCTCCCCGCGTCGCCCGGGCCCCGACTCCTTTCTGGGGGCGCGTTCTGGGGC  
GCCGGGAAGTGAGGCCGGGGCCGCCGCCATGGCCGCAGGGACCTGGGGCGGAGGA  
GGGAGGACGCTGGGGGTGACGTTCCCTCTCAGGAGCCGCGGACAGAGCGGAGAAGG  
CGGCCCGCGGGGTCCCGTCCGCGGGGGCCGCGGAATCGGGCCAGCACCCCTAGACG  
ATTGGGGGCGCCACCCGCCTCCCTGCCGCCGCGGTTTCTGTCAGCCCCAGGCCGGG  
CTCCTTTGGCCAACGCTCCTACGGGGCTGCCCGGGCCCTCCACACCCGTCCTCAAGA  
AGACCCGTTTTACCTGTGA

### WRB

GGGCCGGTGGGGATGCCGCCCCAGTCCCCCGGCGGGTCTGGCGTAGGTACAGGGT  
CTCAACTGGGCGACTGAAGGCCGTAGTAGCGTCTTGGTTGGTCCGTAAGCTTTTTGAG  
ATAGTTGTTAGCGTCTAAAAGGTACGACGCTTTACCCCAAATCAGACTTTCTGGGTTCT  
AGGGGGTTGGGAGAAACACCGGGCAACCCTGGACTCTTCTGGCTGTGGGTGGCGGCG  
GCGA

### EpCAM

TTCTTCAAGGCTTCAGAGCAGCGCTCCTCCGGTTAAAAGGAAGTCTCAGCACAGAATCT  
TCAAACCTCCTCGGAGGCCACCAAAGATCCCTAACGCCGCCATGGAGACGAAGCACCT  
GGGGCGGGGCGGAGCGGGGCGCGGGGCCACACCTGTGGAGAGGGCCGCGCCCC  
AACTGCAGCGCCGGGGCT **GGGGGAGGG** GAGCCTACTCACTCCCCAACTCCC

(the Zinc finger binding site is colored)