SUPPLEMENTAL MATERIALS

Targeted gene suppression by inducing de novo DNA methylation in the gene promoter

Ainu Ma, Hong Wang, Rui Guo, Yongxiang Wang, Wei Li, Jiuwei Cui, Guanjun Wang, Andrew R. Hoffman, Ji-Fan Hu
Additional file 1. DNA methylation of the CMV promoter. Stable clone cells were transiently transfected with synthetic suppressor vectors. Genomic DNA was extracted and treated by sodium bisulfite. Total genomic DNAs were amplified with PCR, cloned into pJet vector, and sequenced. Open circles: unmethylated CpGs; solid circles: methylated CpGs.
### PCR primers

| Gene                | Primer   | Sequence  | °C |
|---------------------|----------|-----------|----|
| **RT-PCR**          |          |           |    |
| Actin-F1            | J880     | CAGGTCATCACCATTGGCAATGAGC | 60 |
| Actin-R1            | J881     | CGGATGTCCACGTCACACTTCATGA | 60 |
| GeoGFP-F1           | JH1137   | CCGCCATGGAGATCGAGTG | 60 |
| GeoGFP-R1           | JH1138   | GCTTTTGGTGCTCTTCATTTG | 60 |
| **Bisulfite DNA PCR** |          |           |    |
| pCMV-F1             | JH1351   | TTTTAAGATTGTGTATTTAAGATTG | 58 |
| pCMV-R1             | JH1370   | AATACCAAAAACAAACTCCCCATTAAC | 58 |
| pCMV-F2             | JH1197   | GGGATTTTTAAGTTTTTATTTTTATTTGA | 60 |
| pCMV-R2             | JH1200   | TCTAAAATCTCTCTATAAAATCAAAAACAA | 60 |
| **Methylation-specific PCR (MSP)** | | | |
| pCMV meth-F1        | JH1351   | TTTTAAGATTGTGTATTTAAGATTG | 62 |
| pCMV meth-R1        | JH1536   | CCCGTAAATCAAACCCTAATACGCAC | 62 |
| pCMV unmeth-R1      | JH1537   | TCCCCATAATCAAACCCTAATACGCAC | 62 |
| **ChIP PCR**        |          |           |    |
| pCMV-F1             | JH1478   | GC GGTTTGGCAGTACATCA | 60 |
| pCMV-R1             | JH1479   | GGGCGGAGTTTACGACAT | 60 |