Supplementary Table S1 Primers and sequences used in this study

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| Primers  |
| pre-miR-200c | F | ACAAGCTTAGGAAGTGTCCCCAGGGACTCG |
|  | R | AACTCGAGACGCTCTCAGCTCAAGACGAGG |
| miR-200c | F | GCGTAATACTGCCGGGTAAT |
|  | Stem loop | GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACTCCATC |
| U-6 | F | CTCGCTTCGGCAGCACA |
|  | R | GCGAGCACAGAATTAATACGAC |
| circVMA21 | F | TGTTAAGTGATGCTTTTCTAAC |
|  | R | AAAAATAGCTGTCCCTATTGGA |
| VMA21 mRNA | F | AGACGCTCCTGTTCTTCACA |
|  | R | GGCGACCACTGCAACAATAG |
| XIAP pre-mRNA | F | CACGCCCGGCTAATTTTGTA |
|  | R | CATGCACCTGTAATCCCAGC |
| GADPH | F | AGCCACATCGCTCAGACAC |
|  | R | GCCCAATACGACCAAATCC |
| XIAP 3’UTR | F | AGCTTTGTTTAAACTGGTGCCAATGTGAAATGTAAA |
|  | R | TCCTAGTCTAGATCTCAACATGGAAAGCTGTCAC |
| CircVMA21 |  |  |
| Site 1 | F | AGCTTTGTTTAAACAGTCAGTCTTAAGGAGTCACGT |
|  | R | CCGCTCGAGACTCAAAAGCAACCGTAAGTCA |
| Site 2 | F | AGCTTTGTTTAAACGGCTTCAATTAAAAGGTTCGAGG |
|  | R | CCGCTCGAGTCCATCAGATATGCCCAAGGA |
| Site 3 | F | AGCTTTGTTTAAACTCCTTGGGCATATCTGATGGA |
|  | R | CCGCTCGAGGTCAGGAAAAGCTGGCAGAA |
| Site 4 | F | AGCTTTGTTTAAACTGAGTCTAGGGTAGTATGTGGT |
|  | R | CCGCTCGAGAGCATAAGATCCCAAAAGCACA |
| Site 5 | F | AGCTTTGTTTAAACCTTGTGCTTTTGGGATCTTATGC |
|  | R | CCGCTCGAGAAGCCTAAATATCAACCCTAGCA |
| Site 6 | F | AGCTTTGTTTAAACGCACAGCACCTTACAGTTTG |
|  | R | CCGCTCGAGGCAGCACATCCAAATCCTCC |
| circVMA21 vector | F | GTAACTATAACGGTCGGAAGAGAGAATGAAGTCCCCT |
|  | R | ATTACCTCTTTCTCCTCATGTTGATCACTGCCTGTTC |
| Linear VMA21 vector | F | GTAACTATAACGGTCTTTTCTCTTGATAGGCGCCC |
|  | R | ATTACCTCTTTCTCCAATCAGGACACAGCAAAGTAGC |
| circVMA21 mutation |  |  |
| Site 2 | F | TGGAAAACATTTTTTTTTCATCCAAAAAGCATTCTCCTTGGGCATATC |
|  | R | GATATGCCCAAGGAGAATGCTTTTTGGATGAAAAAAAAATGTTTTCCA  |
| Site 3 | F | ATGTGCAATCTAAAAACACTCCCACAAGCATTTGTTTTTTAATTATAAAATCATAGTA  |
|  | R | TACTATGATTTTATAATTAAAAAACAAATGCTTGTGGGAGTGTTTTTAGATTGCACAT  |
| Site 4 | F | CATGGGTATTTTTCTGCAAGCATTTAAACCAGGGGCATATG  |
|  | R | CATATGCCCCTGGTTTAAATGCTTGCAGAAAAATACCCATG  |
| Site 5 | F | GAGTCATTGAATATGCTGTAGCCTTGAATAGTGCCCTGACTAGG  |
|  | R | CCTAGTCAGGGCACTATTCAAGGCTACAGCATATTCAATGACTC  |
| Site 6 | F | TTCTAGATGGTCCCTAATTAAGAAGCCTTGTTGTATTTAGAATTGTCCACCT  |
|  | R | AGGTGGACAATTCTAAATACAACAAGGCTTCTTAATTAGGGACCATCTAGAA  |
|  |  |  |
| siRNAs |
| circVMA21 si-1 |  | AAGGGCGCUAGCACUACAAACAC |
| control si-1 |  | CGCCUAUAUAGCACUACAAACAC |
| circVMA21 si-2 |  | ACAUCCCAAGGGCGCUAGCACUA |
| control si-2 |  | AGUCUCACGUCACACUAGCACUA |
| VMA21 mRNA si |  | TTATTTCGCCACTACTTGAGC |
| XIAP si |  | GAAGCUAGAUUAAAGUCCU |
| scramble si |  | AGUCAGACUGAAUGCAGUC |
|  |  |  |
| Probes for northern blot |
| miR-200c  |  | TCCATCATTACCCGGCAGTATTA  |
| U6  |  | TGGAACGCTTCACGAATTTG |
| circVMA21  | F | TGATGCTTTTCTAACCGTTTTC |
|  | T7-R | TAATACGACTCACTATAGGGAGATTAATCCTGTTTGCCTTCACG |
| 18S  |  | CCAGTCAGTGTAGCGCGCG |
|  |  |  |
| Probes for FISH |
| Dig-miR-200c  |  | TCCATCATTACCCGGCAGTATTA |
| Bio-circVMA21-1 | F | ACCGTTTTCTGGATGGATTTT |
|  | T7-R | TAATACGACTCACTATAGGGAGAATACACAAAGAGGGCCAGCA |
| Bio-circVMA21-2 | F | GGGGAGGATTTGGATGTGCT |
|  | T7-R | TAATACGACTCACTATAGGGAGAAATCCTGTTTGCCTTCACGC |
|  |  |  |
| Other sequences |
| Bio-circVMA21 pull-down probe  |  | CATCCCAAGGGCGCTAGCACTACAAACA |
| Bio-random pull-down probe |  | TACGGATGTCTAGCGCTCTTGGGCTTTG |
| antagomir-200c |  | UCCAUCAUUACCCGGCAGUAUUA |
| antagomir-NC |  | AAACAUGAUGUGUUUUCAUGACC |
| Bio-miR-200c  |  | UAAUACUGCCGGGUAAUGAUGGA  |
| Bio-miR-mut |  | UUCACGGCCCGGGUAAUGAUGGA |