

Appendix Figures/Tables

The Appendix figure/table legends:

Appendix Table S1 Detailed information of seven candidate circRNAs (including loci, strand, genomic and spliced length). *Page 2.*

Appendix Figure S1 Candidate circRNAs were amplified by divergent primers and tested by RT-PCR in T24T and UMUC3 cells. *Page 2.*

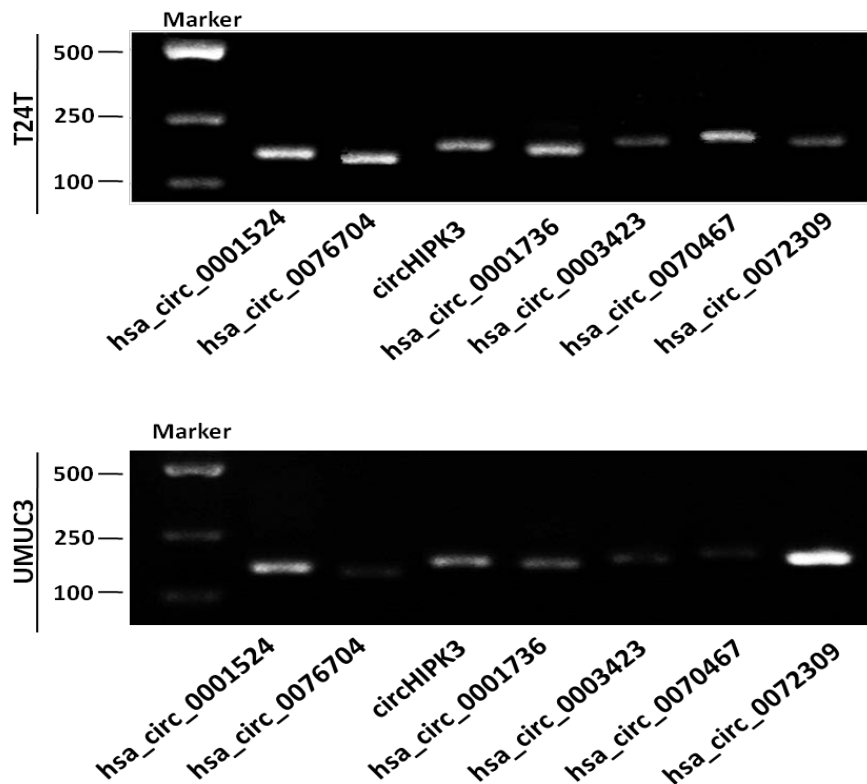
Appendix Figure S2 Six binding sites mutation of circHIPK3. *Page 3.*

Appendix Table S2 Primers and RNA sequences used in this study. *Page 4-7.*

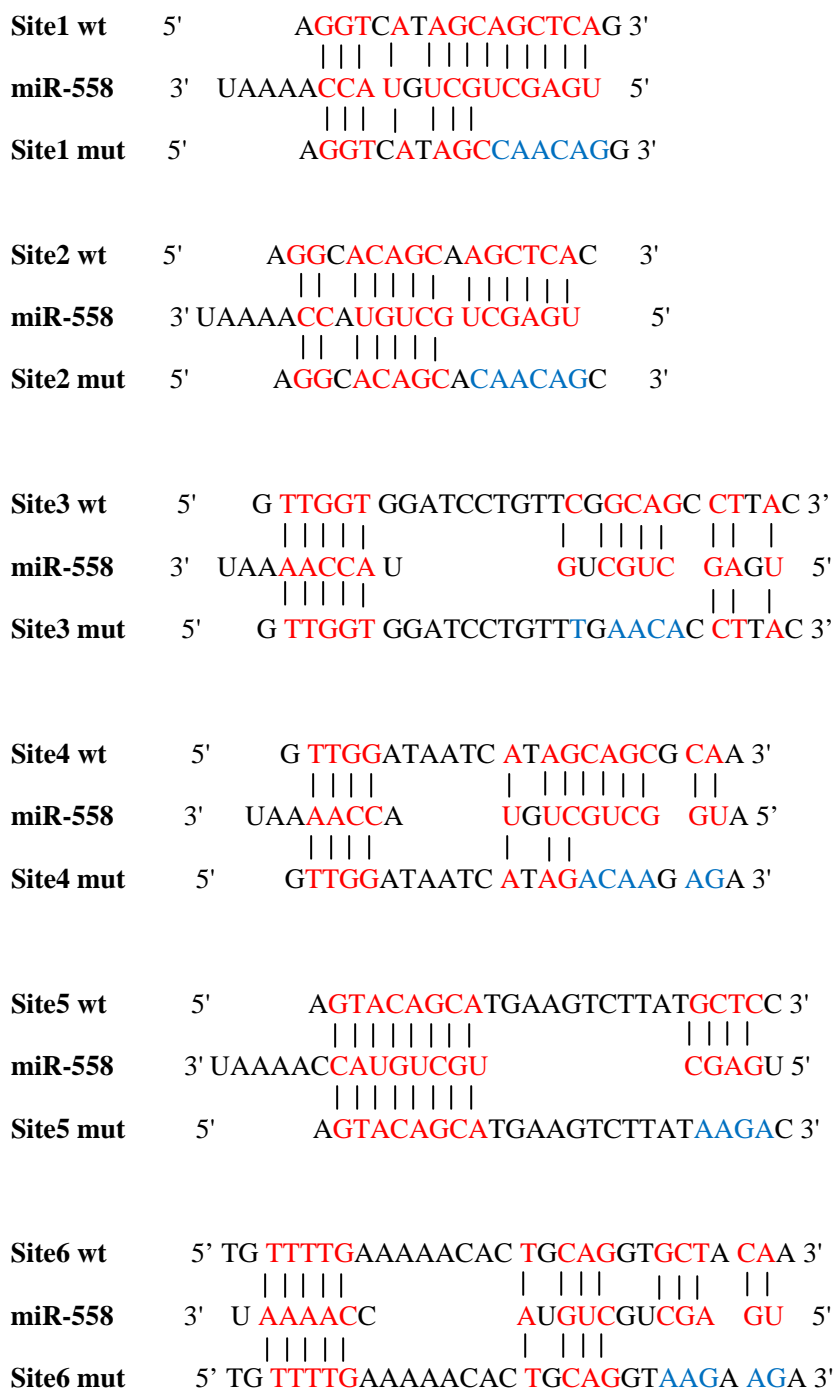
Appendix Table S1

Name	Circ_loci	Strand	Genomic length	Spliced length
hsa_circ_0001524	Chr5:131677703-131709272	(+)	31570	813
hsa_circ_0076704	Chr:6:47503280-47554766	(-)	51487	537
circHIPK3 (hsa_circ_0000284)	Chr:11:33286413-33287511	(-)	1099	1099
hsa_circ_0001736	Chr7:105073619-105077433	(+)	3815	633
hsa_circ_0003423	Chr18:58934433-58953799	(+)	19367	804
hsa_circ_0070467	Chr4:9457335-94586444	(-)	13094	672
hsa_circ_0072309	Chr5:38523419-38530666	(+)	7248	580

Appendix Figure S1



Appendix Figure S2



Appendix Table S2

Primers for PCR	
hsa_circ_0001524 Forward	ATCATCTTGCCTGGGTTCC
hsa_circ_0001524 Reverse	TCCATTGGGTGCTGTGAA
hsa_circ_0076704 Forward	CATGAAGCCCAGGACGATT
hsa_circ_0076704 Reverse	AGTTCTCCTTCCAGCCACC
hsa_circ_0001736 Forward	GCAAATGGGTATTTCTTTA
hsa_circ_0001736 Reverse	AGTAATTGATGTTGGAGTAT
hsa_circ_0003423 Forward	GGGTGGACGTGTTGGGAGT
hsa_circ_0003423 Reverse	TCAGGGCAGGTGTAGGGAG
hsa_circ_0070467 Forward	CACTGGGACTGAACATTTGA
hsa_circ_0070467 Reverse	CACTGGGACTGAACATTTGA
hsa_circ_0072309 Forward	TGTCTGCTGATTTCTCAACCTC
hsa_circ_0072309 Reverse	CGTAAATATCCATCATCTGTGC
circHIPK3 Forward	TTCAACATATCTACAATCTCGGT
circHIPK3 Reverse	ACCATTCACATAGGTCCGT
linear-HIPK3 Forward	TCACAAGTCTTGGTCTACCCA
linear-HIPK3 Reverse	CACATAGGTCCGTGGATAGTTTC
GAPDH Forward	CAATGACCCCTTCATTGACC
GAPDH Reverse	TTGATTTTGGAGGGATCTCG
divergent-GAPDH Forward	GAAGGTGAAGGTCGAGTC
divergent-GAPDH Reverse	GAAGATGGTGATGGGATTTC
HPSE Forward	GAATGGACGGACTGCTAC
HPSE Reverse	CCAAAGAATACTTGCCTCA
VEGF Forward	ATGACGAGGGCCTGGAGTGT
VEGF Reverse	CATTTACACGTCTGCGGATCT

MMP9 Forward	GCAGAGGAATACCTGTACCGC
MMP9 Reverse	AGGTTTGGAATCTGCCCAGGT
hsa-miR-1283 Forward	Ribobio
hsa-miR-1283 Reverse	Ribobio
hsa-miR-551b-5p Forward	Ribobio
hsa-miR-551b-5p Reverse	Ribobio
hsa-miR-1178-3p Forward	Ribobio
hsa-miR-1178-3p Reverse	Ribobio
hsa-miR-193b-3p Forward	Ribobio
hsa-miR-193b-3p Reverse	Ribobio
hsa-miR-653-5p Forward	Ribobio
hsa-miR-653-5p Reverse	Ribobio
hsa-miR-193a-3p Forward	Ribobio
hsa-miR-193a-3p Reverse	Ribobio
hsa-miR-148b-3p Forward	Ribobio
hsa-miR-148b-3p Reverse	Ribobio
hsa-miR-558 Forward	Ribobio
hsa-miR-558 Reverse	Ribobio
hsa-miR-1179 Forward	Ribobio
hsa-miR-1179 Reverse	Ribobio
hsa-miR-495-3p Forward	Ribobio
hsa-miR-495-3p Reverse	Ribobio
hsa-miR-197-5p Forward	Ribobio
hsa-miR-197-5p Reverse	Ribobio
hsa-miR-33a-5p Forward	Ribobio
hsa-miR-33a-5p Reverse	Ribobio
U6 Forward	Ribobio

U6 Reverse	Ribobio
siRNAs	
si NC sense	UUCUCCGAACGUGUCACGUTT
si NC antisense	ACGUGACACGUUCGGAGAATT
si circHIPK3-1 sense	GGUACUACAGGUAUGGCCUTT
si circHIPK3-1 antisense	AGGCCAUACCUGUAGUACCGA
si circHIPK3-2 sense	UACUACAGGUAUGGCCUCATT
si circHIPK3-2 antisense	UGAGGCCAUACCUGUAGUACC
si circHIPK3-3 sense	UCGGUACUACAGGUAUGGCTT
si circHIPK3-3 antisense	GCCAUACCUGUAGUACCGAGA
FISH probes	
circHIPK3	Ribobio
U6	Ribobio
18S	Ribobio
miR-558	Ribobio
Biotinylated probes	
circHIPK3	CCATACCTGTAGTACCGAGA
(biotin)miR-558 mimics sense	UGAGCUGCUGUACCAAAAU
(biotin)miR-558 mimics antisense	UUUGGUACAGCAGCUCAUU
biotin-miR-558 mutant sense	UACAUAUCUGUACCAAAAU
biotin-miR-558 mutant antisense	UUUGGUACAGAU AUGUAUU
Northern blot probes	
circHIPK3 Forward	GTATGGCCTCACAAGTCTTG
circHIPK3-T7-Reverse	TAATACGACTCACTATAGGGCTGTAGTACCGAGAT TGTAGAT
HIPK3 Forward	TCACAAGTCTTGGTCTACCCA
HIPK3-T7-Reverse	TAATACGACTCACTATAGGGCACATAGGTCCGTGG ATAGTTTC
miR-558 mimics and inhibitors	
mimics NC sense	UUCUCCGAACGUGUCACGUTT

mimics NC antisense	ACGUGACACGUUCGGAGAATT
miR-558 mimics sense	UGAGCUGCUGUACCAAAAU
miR-558 mimics antisense	UUUGGUACAGCAGCUCAUU
anti NC	CAGUACUUUUGUGUAGUACAA
anti miR-558	AUUUUGGUACAGCAGCUCA