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Supplemental information

**Hsa_circ_0001666 promotes non-small
cell lung cancer migration and invasion
through miR-1184/miR-548l/AGO1 axis**

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Fig.S1

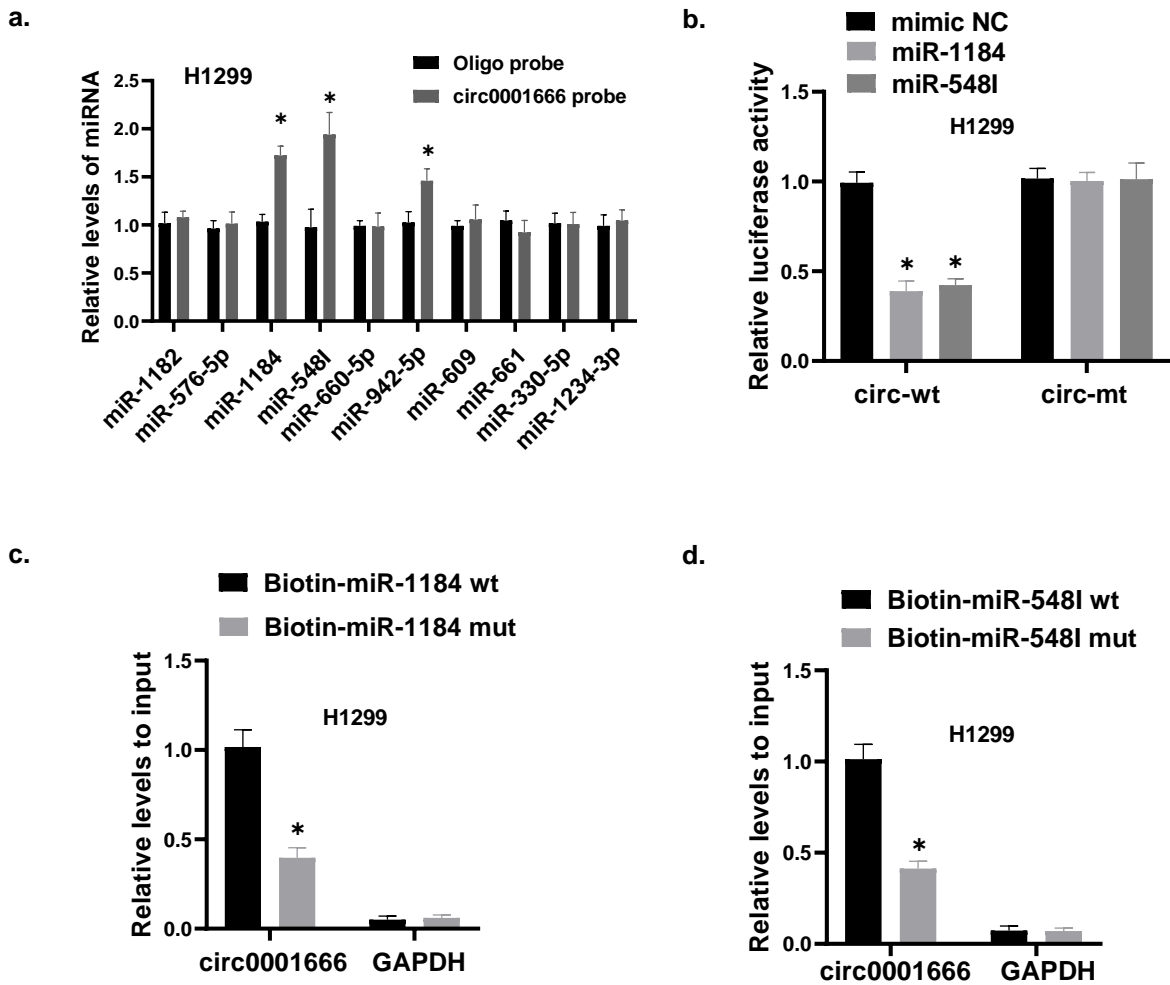


Fig.S1 Circ0001666 could bind to miR-1184 and miR-548I in H1299 cells.

a The relative levels of 10 candidate miRNAs were pulled down by circ0001666 probe or oligo probe in H1299 cells. **b** The luciferase activity after co-transfection with circ0001666-wt or circ0001666-mut and miR-1184/miR-548I mimics or vector in H1299 cells. **c-d** Relative levels of circ0001666 were captured by biotinylated wild-type miR-1184/miR-548I or mutant miR-1184/miR-548I in H1299 cells.

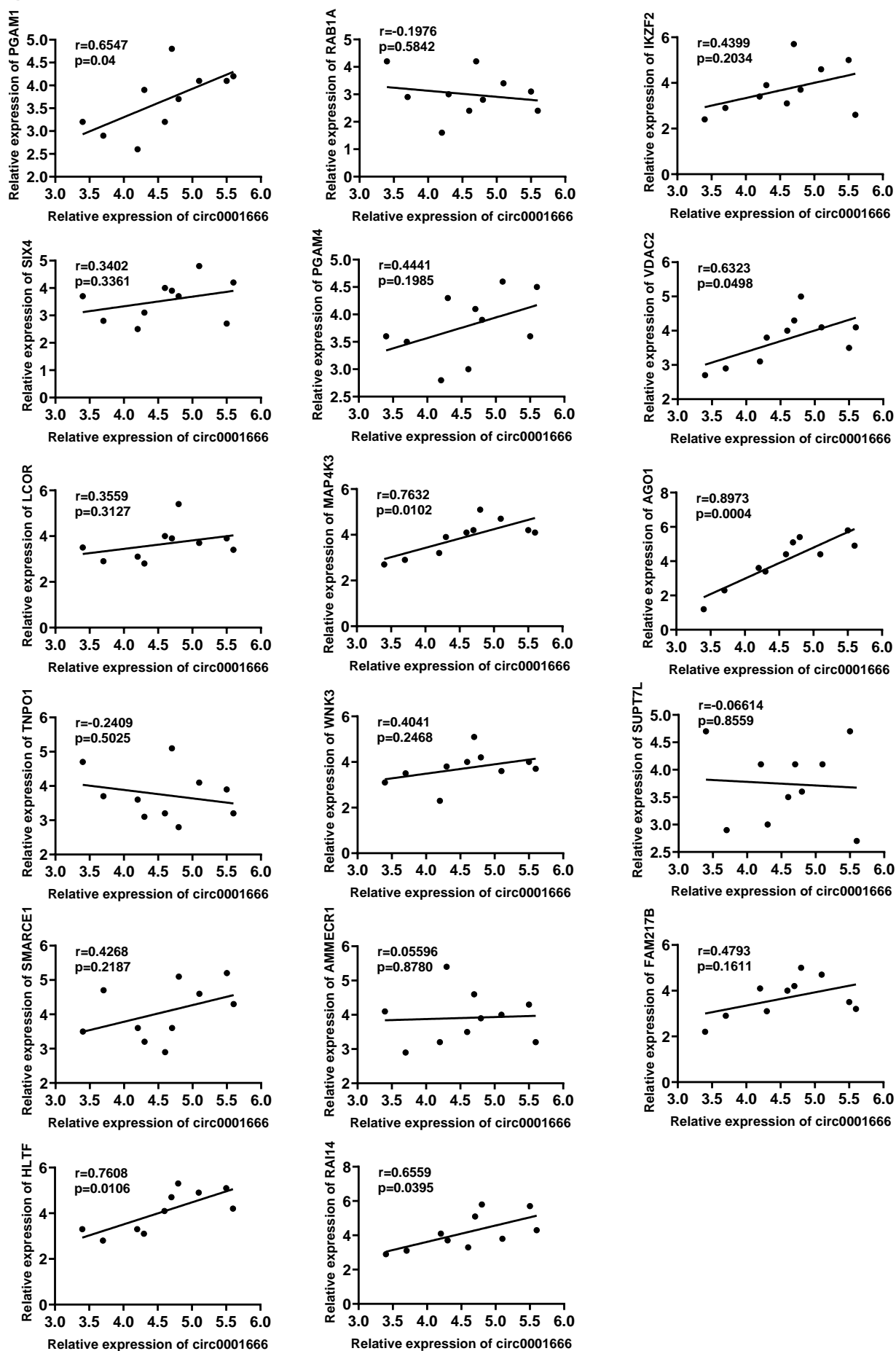
Fig.S2

Fig.S2 The correlation between circ0001666 and 17 candidate targets genes mRNA in our NSCLC samples.

Supplementary Tables

Supplementary table 1 The sequences of primers, oligonucleotides and probes used in this study. Primers for PCR (5'-3')

Divergent-circ0001666 F	GCCTAGCTGTCAAGGAGTGGTT
Divergent-circ0001666 R	GCCACCGCAGATCCAAGATT
Convergent-circ0001666 F	AGCACCACCGAAGCAAGTATCC
Convergent-circ0001666 R	TCTTATCCTGCTCCACCATGCC
linear-FAM120B F	CATGAGCAGTGGAGAGATTGA
linear-FAM120B R	GTGCTGGTGACATCTTGACAG
GAPDH F	AAATCAAGTGGGCGATGCTG
GAPDH R	GCAGGAGGCATTGCTGATGAT
Divergent-GAPDH F	GAAGGTGAAGGTCGAGTC
Divergent-GAPDH R	GAAGATGGTGATGGGATTTC
hsa-miR-1182 F	GGAGGGTCTTGGGAGGGA
hsa-miR-1182 R	AGTGCAGGGTCCGAGGTATT
hsa-miR-567-5p F	GCGCGATTCTAATTTCTCCAC
hsa-miR-567-5p R	AGTGCAGGGTCCGAGGTATT
hsa-miR-1184 F	CGCCTGCAGCGACTTGATG
hsa-miR-1184 R	AGTGCAGGGTCCGAGGTATT
hsa-miR-548I F	GCGAAAAGTATTTGCGGGT
hsa-miR-548I R	AGTGCAGGGTCCGAGGTATT
hsa-miR-660-5p F	CGCGTACCCATTGCATATCG
hsa-miR-660-5p R	AGTGCAGGGTCCGAGGTATT
hsa-miR-942-5p F	CGCGTCTTCTCTGTTTTGGC
hsa-miR-942-5p R	AGTGCAGGGTCCGAGGTATT
hsa-miR-609 F	GCGCGAGGGTGTTCCTCTC
hsa-miR-609 R	AGTGCAGGGTCCGAGGTATT
hsa-miR-661 F	TGCCTGGGTCTCTGGCCT
hsa-miR-661 R	AGTGCAGGGTCCGAGGTATT
hsa-miR-330-5p F	GCGTCTCTGGGCCTGTGTC
hsa-miR-330-5p R	AGTGCAGGGTCCGAGGTATT
hsa-miR-1234-3p F	TCGGCCTGACCACCA
hsa-miR-1234-3p R	AGTGCAGGGTCCGAGGTATT
PGAM1 F	GGCACAGGTATTTGGCCTCA
PGAM1 R	CAAACCTCATAGCCAGCATCAGAC
RAB1A F	TGCCTTCTTCTTAGGTTTGCA
RAB1A R	GGCCTGCTGTGTCCCATATTT
IKZF2 F	TGTGGACGAAGCTACAAGCA
IKZF2 R	CTTCCATAGGAGGTACATGGTGA
SIX4 F	TGGCAGCTTCAACAAGGTAAT

SIX4 R	GGCCTGTATTAGGAACCGTG
PGAM4 F	AAGCCACGACCAATGAGGA
PGAM4 R	CACTGGAATGACTAGAGCCC
VDAC2 F	TCAGGACACCACCAGATTCC
VDAC2 R	TAATGACCTTGCCTCTCACA
LCOR F	AGAACTGGATTCGTGGCG
LCOR R	AGGTCCAAACAGCCCTTCA
MAP4K3 F	AGTCTTTCATTGGCACACCA
MAP4K3 R	ACATAGGAGGCTGAAGCTCTG
AGO1 F	GAAACCAATCAAGCTCCTGGC
AGO1 R	TATCCACCACTTCCCGGTTG
TNPO1 F	GGTGACTCCTCTCCTCTGATT
TNPO1 R	CACCAAATGCTCCCTCACAG
WNK3 F	GGCATAGTTGCTACAGATCCAC
WNK3 R	CCTTTGTCCAGTCATCCACCA
SUPT7L F	GTACCTCCTTGTCTCGGTTCA
SUPT7L R	TGTGAGATCCTTGCCTTTACC
SMARCE1 F	CACCAGGGTTTGTGGGATAACA
SMARCE1 R	TGATACCAGAGGATGCCGTGA
AMMECR1 F	CAACGAGCCCTATGCCCTTA
AMMECR1 R	ACCCACCTCCAGTCCAATA
FAM217B F	AGTGCTCTGGCTATTGCTGAA
FAM217B R	TCTCCTCACCACCGGAACTTT
HLTF F	AGCATAAGGTGGCTAAGAGTGA
HLTF R	CTGGATTGGAGTACCTGTCAA
RAI14 F	GAGGAAGGAGAGGAAGGTGTTG
RAI14 R	AGTAGCCGGTCATCATTCTTGT
FISH probes	
circ0001666 (cy3)	Ribobio
U6 (cy3)	Ribobio
18s (cy3)	Ribobio
miR-1184 mimic (Dig)	Ribobio
miR-548I mimic (Dig)	Ribobio
Biotinylated probes	
circ0001666 probe	GAACTCCGGGAAAGGATCTGGAATGGTCATCTGC
(biotin) miR-1184 mimics	CCUUCGGUAGUUCAGCGACGUCC
(biotin) miR-1184 mutant	CCUUCGGUAGUUCAGCCUUUCGC
(biotin) miR-548I mimics	CUGUUUUGGGCGUUUAUGAAAA
(biotin) miR-548I mutant	CUGUUUUGGGCGUCACGCUUUC
lentivirus-shRNA	
GV298-NC-shRNA	BioVector

GV298-circ0001666-shRNA#1	GATGACCATTCCAGATCCTTTCTCGAGAAAGGATCTGG AATGGTCATC
GV298-circ0001666-shRNA#2	AGATGACCATTCCAGATCCTTCTCGAGAAGGATCTGGA ATGGTCATCT
GV298-AGO1-shRNA#1	GGTGAATACATCTCGAGATGTATTCCACCACTTCCC
GV298-AGO1-shRNA#2	GCTCCTGGCCAATTACTTTGACTCGAGTCAAAGTAATT GGCCAGGAGC