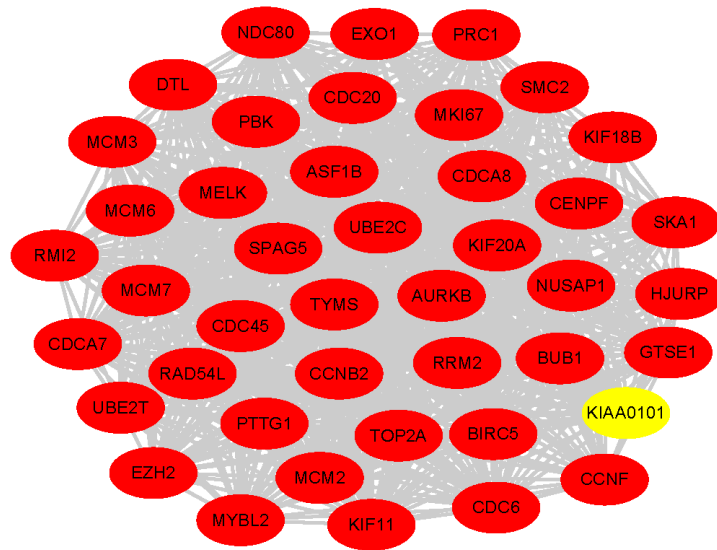
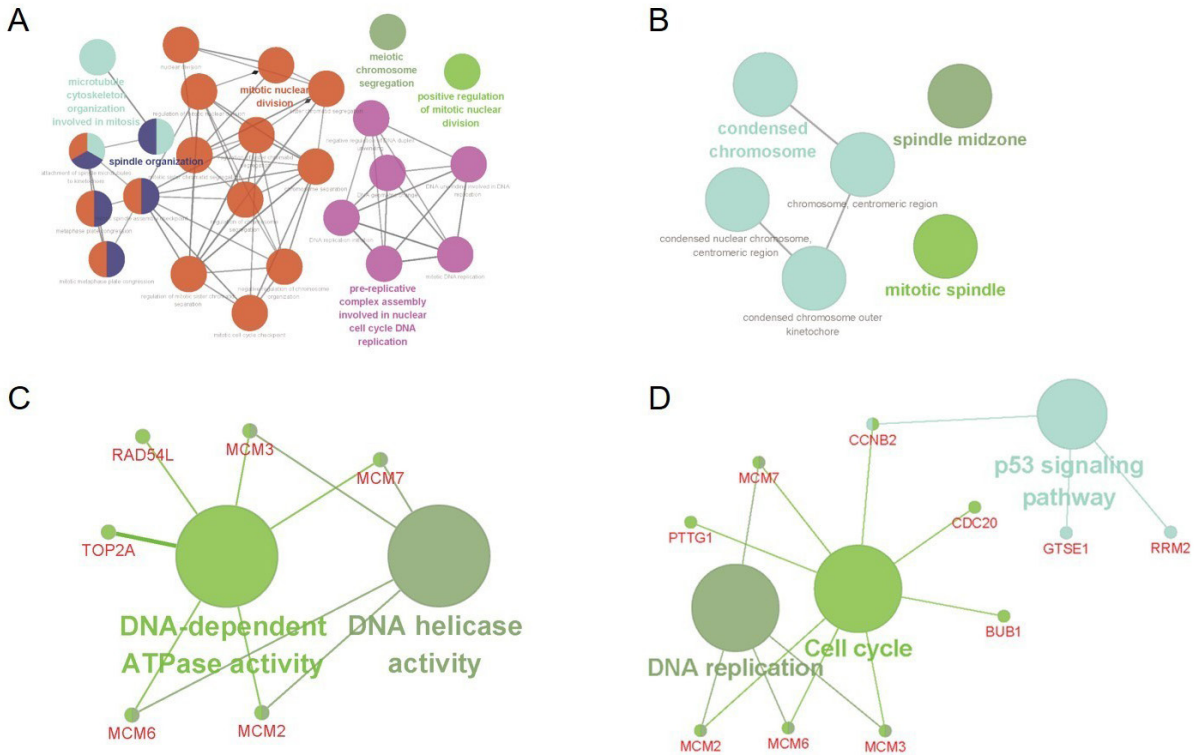


Figure S1 PPI networks constructed by 180 DEGS.



**Figure S2** The highest score module in PPI network. Red nodes and yellow nodes represent upregulated and downregulated genes, respectively.



**Figure S3** Top 10 GO enrichment terms and KEGG pathways analysis associated with top module genes. (A) biological process. (B) Cellular component. (C) Molecular function. (D) KEGG pathways analysis.

**Table S1** The names of 180 integrated DEGs

DEGs	Gene names
Upregulated	<i>MIR7-3HG, TOP2A, NDC80, SALL1, NUSAP1, DTL, HMGA1, UBE2T, SYK, EYA2, CDC6, PRC1, E2F1, KIF20A, REC8, SLC38A5, USP49, TYMS, GFAP, UBE2C, RAD54L, CDCA8, RRM2, EXO1, BIRC5, GTSE1, TP53I11, SSTR2, WDR76, BUB1, CDC20, CDCA7, HJURP, ELOVL2, SERPINA3, TMSB15A, KIF11, MYBL2, DCT, ASF1B, MCM6, EZH2, CDC45, LMNB1, TJP3, TF, CCNB2, SKA1, MELK, MCM3, SOX11, MCM7, NPVF, MKI67, CCDC60, FMN2, CRYAA, RMI2, MCM2, BRIP1, ZNF367, GPX3, PBK, MEX3A, INSM2, TPH1, TRIM59, SPSB4, FBL, RBP3, CENRV, CTPS1, PDE6H, AURKB, TMSB10, SMC2, MIR4659A, RPS4Y1, HMGB2, CHI3L1, PRAME, RXRG, INSM1, TFF1, RBP4, KIF18B, CP, NOL4, PRR11, SERPINA5, CENPF, NASP, KCNV2, SPAG5, APOC1, DLL3, ISL2, PRICKLE2, UNG, PPAT, CCNF, CDC7, APOE, PCLAF, GNG4, DCHS1, MIR3122, IMPG2, PTTG1</i>
Downregulated	<i>PPARA, SAMD11, GREB1L, WDR61, MBNL2, CEP104, CCDC191, PITPNA-AS11, NDUFA1, JAG1, IFT46, AADAACL2, NFE2L1, INTS10, EZR-AS11, ITGA2, PHLPP2, CLK4, ACSS2, SRGAP1, PODXL, PDE8B, GGTA1P, POC1B-GALNT4, CELF2-AS2, BBS7, EMC1, APLN, ARID5B, RNF150, LCA5L, TFAP2B, MIR3974, SNHG29, ETRFRF1, NEURL1, INTU, PEX16, TAOK3, MID2, KIAA1109, MSMO1, BMP2, UST, HHATL, PPP1R14B-AS1, LRP1B, DLX3, GRM7, IDE, ST7, NFS1, STEAP4, OSBPL1A, KRTAP15-1, ZBTB7C, SCN1A, MIR342, C19orf47, BLCAP, TMEM215, VSX2, RAD52, WDR20, UNC13C, TSPAN7, UBL4B, SLC7A14, DKK3, SPAG7, GORASP1</i>

**Table S2** The Primers for RT-qPCR

Gene	Forward sequence	Reverse sequence
<i>CDC20</i>	GAC CAC TCC TAG CAA ACC TGG	GGG CGT CTG GCT GTT TTC
<i>BUB1</i>	AGC CCA GAC AGT AAC AGA CTC	GTT GGC AAC CTT ATG TGT TTC AC
<i>AURKB</i>	CAG AAG AGC TGC ACA TTT GAC G	CCT TGA GCC CTA AGA GCA GAT TT
<i>TOP2A</i>	ACC ATT GCA GCC TGT AAA TGA	ACC ATT GCA GCC TGT AAA TGA
<i>KIF11</i>	TGT TTG ATG ATC CCC GTA ACA AG	CTG AGT GGG AAC GAC TAG AGT
<i>GAPDH</i>	TCG GAG TCA ACG GAT TTG GT	TTC CCG TTC TCA GCC TTG AC
<i>HMGA1</i>	AGC GAA GTG CCA ACA CCT AAG	AGC GAA GTG CCA ACA CCT AAG
<i>KDM2B</i>	AGC GAA GTG CCA ACA CC TAAG	AGC GAA GTG CCA ACA CCT AAG
<i>NFKB1</i>	AAC AGA GAG GAT TTC GTT TCC G	AAC AGA GAG GAT TTC GTT TCC G
<i>DNMT3A</i>	AGC GAA GTG CCA ACA CCT AAG	AGC GAA GTG CCA ACA CCT AAG
<i>TRIM32</i>	AGC GAA GTG CCA ACA CCT AAG	AGC GAA GTG CCA ACA CCT AAG
<i>EIF2C2</i>	AAC AGA GAG GAT TTC GTT TCC G	AAC AGA GAG GAT TTC GTT TCC G
<i>EZH2</i>	GGA CCA CAG TGT TAC CAG CAT	GGA CCA CAG TGT TAC CAG CAT
<i>STAT1</i>	GGA CCA CAG TGT TAC CAG CAT	GGA CCA CAG TGT TAC CAG CAT