

SUPPLEMENTARY MATERIAL

Table S1. DIANA-mirPath pathway analysis - First Approach: interaction between selected miRNAs and TCGA colorectal cancer pathways.

| miRNAs | p Value | N° of Targets | Gene Targets |
|---|---------|---------------|--|
| Wnt signaling pathway (hsa04310) | | | |
| hsa-miR-1246 | ≤ 0.001 | 4 | DVL3, TP53, PPP3CA, NFATC3 |
| hsa-miR-135b-5p | ≤ 0.001 | 2 | APC, MYC |
| hsa-miR-183-5p | ≤ 0.001 | 12 | TCF7L2, ROCK2, TP53, CCND1, SMAD4, CSNK1A1, MYC, CSNK2A1, RAC1, PSEN1, NFATC3, PLCB4 |
| hsa-miR-18a-5p | ≤ 0.001 | 10 | DAAM2, CCND2, SMAD3, JUN, CCND1, AXIN2, CSNK1A1, CSNK2A1, FOSL1, NFATC3 |
| hsa-miR-18b-5p | ≤ 0.001 | 3 | CCND2, CCND1, CSNK1A1 |
| hsa-miR-21-5p | ≤ 0.001 | 14 | BTRC, APC, WNT5A, CCND2, ROCK2, AXIN1, CCND1, CTNNB1, CSNK1A1, MYC, CSNK2A1, PRICKLE2, BAMBI, TBL1XR1 |
| hsa-miR-223-3p | \ | \ | \ |
| hsa-miR-224-5p | ≤ 0.001 | 5 | GSK3B, LRP6, SMAD4, MAPK8, TBL1XR1 |
| hsa-miR-503-5p | ≤ 0.001 | 3 | CCND2, CSNK2A1, CCND3 |
| hsa-miR-1-3p | ≤ 0.001 | 8 | CSNK2A2, CAMK2G, CTBP1, CTBP2, PLCB3, CCND1, SFRP1, DKK1 |
| hsa-miR-133b | 0.039 | 1 | EP300 |
| hsa-miR-143-3p | ≤ 0.001 | 4 | CSNK2A2, SENP2, FZD2, EP300 |
| hsa-miR-145-5p | ≤ 0.001 | 12 | FZD7, GSK3B, PRKCA, WNT5A, WNT5B, PPP3CA, CCND1, CTNNB1, MYC, RAC1, WNT11, PRKACB |
| hsa-miR-150-5p | ≤ 0.001 | 3 | SMAD3, TP53, EP300 |
| hsa-miR-195-5p | ≤ 0.001 | 20 | CTNNBIP1, DVL3, BTRC, CCND2, CUL1, MAPK9, CCND1, CTNNB1, MAPK8, CSNK1A1, MYC, PRKACA, EP300, WNT3A, BAMBI, NFATC3, CREBBP, TBL1XR1, WNT9A, CCND3 |
| hsa-miR-215-5p | 0.039 | 1 | FZD5 |
| hsa-miR-375 | ≤ 0.001 | 9 | PRKCA, VANGL1, CHD8, RHOA, FZD8, FZD4, JUN, MYC, PRKX |
| hsa-miR-378a-3p | ≤ 0.001 | 12 | VANGL1, CCND2, ROCK2, PPP3R1, JUN, CCND1, DVLI, MYC, EP300, RBX1, NFATC3, TBL1XR1 |
| hsa-miR-497-5p | ≤ 0.001 | 15 | DVL3, BTRC, WNT5A, CCND2, ROCK2, SMAD3, NLK, CCND1, MAPK8, CSNK1A1, MYC, CSNK2A1, TBL1XR1, WNT9A, CCND3 |
| RAS signaling pathway (hsa04041) | | | |
| hsa-miR-1246 | ≤ 0.001 | 5 | PIK3CB, CALM2, PTPN11, RASGRP3, RAB5B |
| hsa-miR-135b-5p | \ | \ | \ |
| hsa-miR-183-5p | ≤ 0.001 | 17 | NRAS, STK4, IGF1R, GNB1, KRAS, PAK1, PTPN11, RAC1, FGF2, PDGFC, RALGDS, MAPK1, ABL2, GNG5, RAB5B, EFNA1, RASSF5 |
| hsa-miR-18a-5p | ≤ 0.001 | 9 | STK4, PAK2, ETS2, GNG12, RAB5A, KIT, ARF6, RAB5C, GRIN2A |

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|--|---------|----|---|
| hsa-miR-18b-5p | ≤ 0.001 | 5 | STK4, GNG12, ARF6, RAB5C, GRIN2A |
| hsa-miR-21-5p | ≤ 0.001 | 26 | NFKB1, SOS2, NRAS, PAK2, GNG12, RALA, PLD1, TIAM1, IGF1R, EGFR, FASLG, MLLT4, AKT2, RASGRP1, REL, PIK3R1, TBK1, EPHA2, NF1, GAB1, PDGFD, RASGRP3, VEGFA, MAPK1, GNB4, TEK |
| hsa-miR-223-3p | ≤ 0.001 | 4 | IGF1R, PIK3CD, RASGRP1, VEGFA |
| hsa-miR-224-5p | ≤ 0.001 | 13 | PDGFRA, NRAS, CALM3, CALM1, PAK2, ETS1, EFNA3, IGF1R, EGFR, PIK3R3, MAPK8, CDC42, PDGFRB |
| hsa-miR-503-5p | ≤ 0.001 | 9 | IGF1R, RRAS2, IKBKB, RASA1, FGF2, AKT3, HGF, VEGFA, ABL2 |
| hsa-miR-1-3p | ≤ 0.001 | 14 | MET, RIN1, SOS2, CALM3, CALM1, EGFR, CALM2, GNB2, AKT1, CDC42, EXOC2, PIK3CA, FGFR2, RAP1B |
| hsa-miR-133b | ≤ 0.001 | 5 | MET, CALM1, IGF1R, EGFR, FGFR1 |
| hsa-miR-143-3p | ≤ 0.001 | 9 | CALM1, KRAS, AKT1, REL, PTPN11, HRAS, MAPK1, ABL2, RASSF5 |
| hsa-miR-145-5p | ≤ 0.001 | 15 | PRKCA, GNG11, NRAS, ANGPT2, EGFR, PAK1, RASA1, AKT1, RAC1, PAK4, ARF6, VEGFA, ABL2, PDGFRB, PRKACB |
| hsa-miR-150-5p | ≤ 0.001 | 4 | MET, GNG11, VEGFA, FGFR1 |
| hsa-miR-195-5p | ≤ 0.001 | 22 | CALM1, CHUK, IGF1R, RRAS2, IKBKB, RASA1, MAPK9, GNB2, PRKACA, FGF2, CDC42, NF1, AKT3, PDGFC, PIK3CA, HGF, VEGFA, GRB2, PDGFA, EFNA1 |
| hsa-miR-215-5p | 0.005 | 2 | GAB1, RGL1 |
| hsa-miR-375 | ≤ 0.001 | 13 | PRKCA, PDGFRA, FGFR3, CALM3, RAF1, IGF1R, RHOA, REL, PRKX, CDC42, PDGFC, ARF6, ABL1 |
| hsa-miR-378a-3p | ≤ 0.001 | 3 | CALM1, GNG12, RAB5B |
| hsa-miR-497-5p | ≤ 0.001 | 22 | RIN1, SOS2, CALM1, PAK2, PIK3R2, CHUK, IGF1R, CALM2, IKBKB, AKT2, GNB2, MAPK8, FGF2, CDC42, AKT3, PIK3CA, MAP2K1, HGF, VEGFA, MAPK1, ABL2, GRB2 |
| MAPK signaling pathway (hsa04010) | | | |
| hsa-miR-1246 | ≤ 0.001 | 6 | TAOK1, TP53, PPP3CA, MAP3K2, RASGRP3, NFATC3 |
| hsa-miR-135b-5p | 0.008 | 2 | CHUK, MYC |
| hsa-miR-183-5p | ≤ 0.001 | 19 | FOS, HSPA1A, ATF2, NRAS, CRKL, STK4, ELK4, MAP3K13, KRAS, PAK1, TP53, RAPGEF2, MYC, RAC1, FGF2, MAP3K2, HSPA1B, NFATC3, MAPK1 |
| hsa-miR-18a-5p | ≤ 0.001 | 17 | MAPK8IP2, STK4, ELK4, PAK2, CACNB4, GNG12, MAP4K4, MAP3K1, TAOK1, JUN, HSPA8, DUSP3, STMN1, MAPK3K2, NFATC3, DUSP1, TGFB2 |
| hsa-miR-18b-5p | ≤ 0.001 | 5 | STK4, ELK4, GNG12, HSPA8, STMN2 |
| hsa-miR-21-5p | ≤ 0.001 | 33 | NFKB1, SOS2, MAP4K2, ATF2, NRAS, CRKL, IL1B, PAK2, MAP2K7, GNG12, MAP2K3, EGFR, MAP3K4, TGFB1, FASLG, TAOK1, AKT2, DUSP10, RASGRP1, MYC, HSPA8, NF1, FAS, RPS6KA3, STMN1, MAP3K2, RASGRP3, MEF2C, MKNK2, DUSP16, MAPK1, TGFB2, DAXX |
| hsa-miR-223-3p | ≤ 0.001 | 4 | DUSP10, RASGRP1, STMN1, MEF2C |
| hsa-miR-224-5p | ≤ 0.001 | 13 | PDGFRA, NRAS, PAK2, EGFR, TAB2, TAOK1, MAPK8, ZAK, CDC42, STMN1, PDGFRB, TGFB3, NR4A1 |

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| hsa-miR-503-5p | ≤ 0.001 | 9 | DUSP2, CRKL, RRAS2, IKBKB, RASA1, FGF2, HSPA8, AKT3, CACNA2D1 |
| hsa-miR-1-3p | ≤ 0.001 | 14 | HSAPA1A, SOS2, MAP4K2, EGFR, BDFN, RAPGEF2, AKT1, FLNB, FLNA, CDC42, CACNA2D1, FGFR2, HSPA1B, RAP1B |
| hsa-miR-133b | 0.008 | 2 | EGFR, FGFR1 |
| hsa-miR-143-3p | ≤ 0.001 | 10 | ELK4, MAPK7, TAB2, KRAS, AKT1, CACNA1E, HRAS, MKNK2, DUSP16, MAPK1 |
| hsa-miR-145-5p | ≤ 0.001 | 22 | PRKCA, NRAS, ELK4, MAPK14, MAP4K4, EGFR, TGFB1, TAOK, PAK1, MAP2K6, PPP3CA, RASA1, AKT1, MYC, RAC1, STK3, HSPA8, TGFB2, MAP3K5, PDGFRB, PRKACB, TGFB3 |
| hsa-miR-150-5p | ≤ 0.001 | 4 | PTPRR, TP53, FGFR1, DUSP16 |
| hsa-miR-195-5p | ≤ 0.001 | 26 | GNA12, ATF2, DUSP2, CRKL, CRK, MAPK14, CHUK, RRAS2, TAOK1, RPS6KA5, IKBKB, RASA1, MAPK9, MAPK8, MYC, PRKACA, FGF2, CDC42, NF1, RPS6KA3, AKT3, CACNA2D1, MKNK2, NFATC3, GRB2, PDGFA |
| hsa-miR-215-5p | ≤ 0.001 | 4 | MAP3K13, TAOK1, MKNK2, HSPA1B |
| hsa-miR-375 | ≤ 0.001 | 18 | PRKCA, PDGFRA, DUSP6, RAF1, GADD45A, MAP3K1, TAOK1, CASP3, JUN, MYC, FLNB, CDC42, HSPA8, MAP3K8, MAP2K4, SRF |
| hsa-miR-378a-3p | ≤ 0.001 | 19 | HSPA1A, CRKL, GNG12, PPP3R1, JUN, RAPGEF2, MYC, FLNA, MAPT, HSPA8, NF1, DUSP7, STMN1, HSPA1B, NFATC3, MAPK1, GRB2, RAP1B, ELK1 |
| hsa-miR-497-5p | ≤ 0.001 | 20 | SOS2, ATF2, CDC25B, PAK2, DUSP6, CHUK, IKBKB, AKT2, NLK, MAPK8, MYC, FGF2, CDC42, HSPA8, RPS6KA3, AKT3, MAP2K1, CACNA2D1, MAPK1, GRB2 |
| PI3K-AKT signaling pathway (hsa04151) | | | |
| hsa-miR-1246 | ≤ 0.001 | 7 | PIK3CB, PPP2CA, BCL2, CDK6, TP53, CCNE1, PPP2R1B |
| hsa-miR-135b-5p | ≤ 0.001 | 6 | THBS1, YWHAG, CHUK, MYC, COL4A3, PHLPP1 |
| hsa-miR-183-5p | ≤ 0.001 | 31 | PRLR, ITGB1, ITGB8, ATF2, NRAS, ITGA8, ATF6B, PPP2CA, YWHAG, MCL1, PCK2, HSP90AA1, ITGA5, IGF1R, GNB1, PPP2RD, PPP2R5C, KRAS, TP53, CCND1, CCNE2, MYC, RAC1, FGF2, PDGFC, EIF4E2, CREB3L2, PTEN, MAPK1, GNG5, EFNA1 |
| hsa-miR-18a-5p | ≤ 0.001 | 13 | IL2RG, COL27A1, CDKN1B, KRAS, RHEB, FGF11, PIK3R3, EIF4B, FOXO3, CDKN1A, SGK3, COL4A1, EFNA1 |
| hsa-miR-18b-5p | ≤ 0.001 | 8 | PPP2R3A, CCND2, GNG12, CCND1, ITGA2, CDKN1A, PPP2R1B, MDM2 |
| hsa-miR-21-5p | ≤ 0.001 | 41 | PRLR, NFKB1, SOS2, LAMB1, ATF2, NRAS, PRKAA2, THBS1, CCND2, GNG12, BCL2, IGF1R, EGFR, TRL4, CDK6, FASLG, AKT2, PTK2, BRAC1, CCND1, F2R, MYC, HSP90AB1, PIK3R1, HSP90AB1, PIK3R1, HSP90B1, EPHA2, LAMC1, COL6A3, PDGFD, FOXO3, VEGFA, PTEN, SGK3, MAPK1, PPP2R1B, COL5A2, GNB4, TEK, MDM2, COL4A1, RXRA |
| hsa-miR-223-3p | ≤ 0.001 | 7 | BCL2, IGF1R, DDIT4, PIK3CD, HSP90B1, MTOR, VEGFA |
| hsa-miR-224-5p | ≤ 0.001 | 18 | GSK3B, PDGFRA, NRAS, MCL1, PPP2R5D, EFNA3, IGF1R, EGFR, PIK3R3, PRKAA1, EIF4E2, FN1, PKN2, TNC, CDKN1A, PDGFRB, COL4A1, NR4A1 |

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| hsa-miR-503-5p | ≤ 0.001 | 15 | RBL2, MCL1, CCND2, BCL2, IGF1R, IKBKB, COL6A1, CCNE2, FGF2, LAMC1, AKT3, LAMC2, HGF, VEGFA, CCND3 |
| hsa-miR-1-3p | ≤ 0.001 | 27 | MET, SOS2, CDK4, COL6A5, THBS1, THBS2, ITGA3, BCL2, EGFR, TLR4, YWHAQ, PPP2R5A, BRCA1, GNB2, CCND1, EIF4E, AKT1, PPP2R2A, COL1A1, HSP90B1, PIK3CA, FN1, FGFR2, ITGA6, SGK3, IL6, PPP2R1B |
| hsa-miR-133b | ≤ 0.001 | 6 | MET, MCL1, EIF4EBP1, IGF1R, EGFR, FGFR1 |
| hsa-miR-143-3p | ≤ 0.001 | 18 | CDK4, THBS1, BCL2, YWHAB, KRAS, CDK6, IFNAR2, YWHAQ, CRCT2, AKT1, PPP2R2A, RPTOR, COL5A1, COL1A1, HRAS, CREB3L2, MAPK1, MDM2 |
| hsa-miR-145-5p | ≤ 0.001 | 35 | GSK3B, PRKCA, ITGB1, ITGB8, CDK4, GNG11, NRAS, THBS1, ANGPT2, ITGA5, ITGA3, EGFR, COL3A1, COL6A1, PTK2, ITGAV, ITGA11, DDIT4, CCND1, EIF4E, AKT1, MYC, COL5A1, COL1A1, HSP90AB1, RAC1, COL1A2, FN1, TNC, CDKN1A, VEGFA, COL5A2, SPP1, MDM2, PDGFRB |
| hsa-miR-150-5p | ≤ 0.001 | 9 | MET, MYB, GNG11, CDKN1B, TP53, PPP2CB, EIF4E2, VEGFA, FGFR1 |
| hsa-miR-195-5p | ≤ 0.001 | 41 | PHLPP2, RBL2, MYB, CDK4, ATF2, IL2RB, YWHAG, MCL1, CCND1, HSP90AA1, CHUK, BCL2, YWHAB, IGF1R, PPP2R5C, CDK6, CREB1, IKBKB, GNB2, CCND1, JAK2, CCNE2, MYC, COL5A1, HSP90AB1, FGF2, PPP2CB, AKT3, PDGFC, CCNE1, PIK3CA, LAMC2, HGF, VEGFA, PPP2R1B, GRB2, SGK1, BCL2L11, CCND3, PDGFA, EFNA1 |
| hsa-miR-215-5p | 0.026 | 2 | HSP90AA1, BCL2L11 |
| hsa-miR-375 | ≤ 0.001 | 25 | PRLR, PRKCA, PDGFRA, MYB, ITGB1, COL6A5, FGFR3, PRKAA2, YWHAG, MCL1, HSP90AA1, RAF1, BCL2, YWHAB, IGF1R, RPS6, MYC, HSP90AB1, YWHAZ, PPP2R3C, IRS1, PDGFC, FOXO3, MDM2, BCL2L11 |
| hsa-miR-378a-3p | ≤ 0.001 | 27 | PPP2R5E, MET, ITGA9, PPP2R3A, YWHAG, CCND2, HSP90AA1, GNG12, BCL2, IGF1R, TLR4, CDK6, COL3A1, IFNAR1, PIK3R3, CCND1, MYC, MLST8, PPP2R1A, PIK3R1, YWHAZ, VEGFA, PTEN, MAPK1, GNG5, GRB2, BCL2L11 |
| hsa-miR-497-5p | ≤ 0.001 | 38 | SOS2, CDK4, ATF2, PIK3R2, IL2RB, CCND2, HSP90AA1, CHUK, BCL2, IGF1R, RPS6, CDK6, IKBKB, COL6A1, AKT2, GNB2, CCND1, EIF4E, LPAR1, MYC, HSP90B1, FGF2, COL1A2, LAMC1, AKT3, CCNE1, PIK3CA, FN1, MAP2K1, LAMC2, HGF, COL5A3, VEGFA, MAPK1, GRB2, SGK1, MDM2, CCND3 |
| TGF-beta signaling pathway (hsa04350) | | | |
| hsa-miR-1246 | ≤ 0.001 | 2 | PPP2CA, PPP2R1B |
| hsa-miR-135b-5p | ≤ 0.001 | 2 | THBS1, MYC |
| hsa-miR-183-5p | ≤ 0.001 | 5 | PPP2CA, ACVR2B, SMAD4, MYC, MAPK1 |
| hsa-miR-18a-5p | ≤ 0.001 | 7 | SMAD2, SMAD3, ACVR2A, SMAD7, PPP2R1B, TGFB2, BMP4 |
| hsa-miR-18b-5p | ≤ 0.001 | 3 | SMAD2, ACVR2A, PPP2R1B |
| hsa-miR-21-5p | ≤ 0.001 | 12 | THBS1, PITX2, TGFB1, ZFYVE16, MYC, SP1, BAMBI, SMAD7, MAPK1, PPP2R1B, TGFB2, BMP2 |
| hsa-miR-223-3p | \ | \ | \ |
| hsa-miR-224-5p | ≤ 0.001 | 4 | DCN, SMAD4, SMAD5, TGFB3 |

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|---|---------|----|--|
| hsa-miR-503-5p | ≤ 0.001 | 3 | SMURF2, LTBP1, SMAD7 |
| hsa-miR-1-3p | ≤ 0.001 | 7 | THBS1, ID4, E2F5, SP1, BMP7, PPP2R1B, BMPR2 |
| hsa-miR-133b | 0.013 | 1 | EP300 |
| hsa-miR-143-3p | ≤ 0.001 | 3 | THBS1, EP300, MAPK1 |
| hsa-miR-145-5p | ≤ 0.001 | 12 | FST, SMAD2, NODAL, THBS1, ID4, TGFB1, ACVR1, MYC, BMP2, TGFB2, BMP7, TGFB3 |
| hsa-miR-150-5p | ≤ 0.001 | 5 | SAMD3, BMP2, SP1, EP300, PPP2CB |
| hsa-miR-195-5p | ≤ 0.001 | 14 | SMAD2, SMURF2, CUL1, MYC, RBL1, ACVR2A, SP1, EP300, PPP2CB, BAMBI, LTBP1, SMAD7, CREBBP, PPP2R1B |
| hsa-miR-215-5p | 0.013 | 1 | BMP2 |
| hsa-miR-375 | ≤ 0.001 | 5 | CDKN2B, RHOA, MYC, SMURF1, BMPR2 |
| hsa-miR-378a-3p | ≤ 0.001 | 2 | NODAL, SMAD7 |
| hsa-miR-497-5p | ≤ 0.001 | 7 | FST, SMAD3, MYC, RBL1, SP1, SMAD7, MAPK1 |
| p53 signaling pathway (hsa04115) | | | |
| hsa-miR-1246 | ≤ 0.001 | 6 | BAX, CDK6, TP53, TP53I3, CCNE1, CCNG2 |
| hsa-miR-135b-5p | 0.009 | 1 | THBS1 |
| hsa-miR-183-5p | ≤ 0.001 | 9 | CCNB1, TP53, CCND1, CCNE2, E124, SESN2, TNFRSF10B, PTEN, GTSE1 |
| hsa-miR-18a-5p | ≤ 0.001 | 2 | CCND1, RRM2 |
| hsa-miR-18b-5p | ≤ 0.001 | 5 | CCND2, CCND1, SHISA5, CDKN1A, MDM2 |
| hsa-miR-21-5p | ≤ 0.001 | 13 | CCNG1, THBS1, CCND2, CDK6, APAF1, CCND1, SESN1, TNFRSF10B, MDM4, FAS, SERPINE5, PTEN, MDM2 |
| hsa-miR-223-3p | \ | \ | \ |
| hsa-miR-224-5p | ≤ 0.001 | 5 | IGFBP3, CDKN1A, RRM2, SERPINE1, CCNG2 |
| hsa-miR-503-5p | ≤ 0.001 | 5 | ZMAT3, CCND2, RRM2B, CCNE2, CCND3 |
| hsa-miR-1-3p | ≤ 0.001 | 9 | CDK4, THBS1, BAX, CHEK1, ATM, CCND1, SERPINB5, IGFBP3, ATR |
| hsa-miR-133b | 0.009 | 1 | TNFRSF10B |
| hsa-miR-143-3p | ≤ 0.001 | 9 | CDK4, THBS1, PERP, CDK6, APAF1, SESN2, BBC3, SERPINE1, MDM2 |
| hsa-miR-145-5p | ≤ 0.001 | 11 | CCNG1, CDK4, THBS1, ATM, CCND1, BBC3, CDKN1A, SESN3, SERPINE1, PPM1D, MDM2 |
| hsa-miR-150-5p | ≤ 0.001 | 4 | BAX, PERP, TP53, MDM4 |
| hsa-miR-195-5p | ≤ 0.001 | 12 | ZMAT3, CDK4, CCND2, RRM2B, CDK6, CCND1, CCNE1, SHISA5, SESN1, CCNE1, IGFBP3, CCND3 |
| hsa-miR-215-5p | \ | \ | \ |
| hsa-miR-375 | ≤ 0.001 | 5 | GADD45A, CASP3, SESN1, IGFBP3, MDM2 |
| hsa-miR-378a-3p | ≤ 0.001 | 11 | ZMAT3, CCNB1, CCND2, CDK1, CDK6, CHEK1, CCND1, TNFRSF10B, MDM4, PTEN, SERPINE1 |
| hsa-miR-497-5p | ≤ 0.001 | 12 | ZMAT3, CDK4, CCND2, PERP, RRM2B, CDK6, CCND1, SHISA5, CCNE1, IGFBP3, MDM2, CCND3 |
| Mismatch repair (hsa03430) | | | |
| hsa-miR-1246 | ≤ 0.001 | 1 | POLD3 |
| hsa-miR-135b-5p | \ | \ | \ |
| hsa-miR-183-5p | ≤ 0.001 | 3 | PCNA, MSH6, MSH2 |

| | | | |
|-----------------|--------------|---|---|
| hsa-miR-18a-5p | ≤ 0.001 | 1 | PCNA |
| hsa-miR-18b-5p | \ | \ | \ |
| hsa-miR-21-5p | ≤ 0.001 | 3 | RFC1, MSH6, MSH2 |
| hsa-miR-223-3p | \ | \ | \ |
| hsa-miR-224-5p | ≤ 0.001 | 1 | RPA1 |
| hsa-miR-503-5p | \ | \ | \ |
| hsa-miR-1-3p | ≤ 0.001 | 9 | RPA1, LIG1, POLD1, RFC2, MSH6, MSH2, RFC5, RFC3, EXO1 |
| hsa-miR-133b | \ | \ | \ |
| hsa-miR-143-3p | \ | \ | \ |
| hsa-miR-145-5p | \ | \ | \ |
| hsa-miR-150-5p | \ | \ | \ |
| hsa-miR-195-5p | ≤ 0.001 | 1 | RPA2 |
| hsa-miR-215-5p | ≤ 0.001 | 1 | MSH6 |
| hsa-miR-375 | ≤ 0.001 | 2 | RPA1, EXO1 |
| hsa-miR-378a-3p | ≤ 0.001 | 2 | MLH3, EXO1 |
| hsa-miR-497-5p | \ | \ | \ |