

Supplementary Table 1. microRNAs related pathways using mirPath

| KEGG pathway | P-value | #genes | #microRNAs |
|--|----------------|---------------|-------------------|
| Prostate cancer | 2,91E-16 | 33 | 11 |
| Pathways in cancer | 1,65E-08 | 70 | 15 |
| Colorectal cancer | 2,37E-08 | 22 | 14 |
| Hepatitis B | 5,12E-08 | 41 | 13 |
| Melanoma | 6,23E-08 | 24 | 11 |
| Bladder cancer | 1,80E-07 | 17 | 8 |
| Glioma | 8,89E-07 | 23 | 11 |
| Inositol phosphate metabolism | 1,33E-04 | 16 | 7 |
| Focal adhesion | 1,70E-04 | 37 | 14 |
| Non-small cell lung cancer | 3,88E-04 | 18 | 8 |
| TGF-beta signaling pathway | 4,60E-04 | 18 | 11 |
| mRNA surveillance pathway | 4,60E-04 | 20 | 10 |
| mTOR signaling pathway | 4,60E-04 | 15 | 8 |
| Pancreatic secretion | 1,18E-03 | 19 | 8 |
| Salmonella infection | 1,24E-03 | 18 | 9 |
| Acute myeloid leukemia | 1,67E-03 | 18 | 11 |
| Cell cycle | 1,68E-03 | 27 | 12 |
| Cholinergic synapse | 2,18E-03 | 24 | 10 |
| Insulin signaling pathway | 2,69E-03 | 25 | 9 |
| HIF-1 signaling pathway | 2,98E-03 | 21 | 10 |
| Pancreatic cancer | 3,23E-03 | 22 | 12 |
| VEGF signaling pathway | 3,62E-03 | 14 | 9 |
| Phosphatidylinositol signaling system | 5,03E-03 | 18 | 7 |
| Hepatitis C | 5,90E-03 | 23 | 10 |
| Epithelial cell signaling in Helicobacter pylori infection | 5,90E-03 | 14 | 7 |

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|---|----------|----|----|
| RNA degradation | 6,56E-03 | 15 | 7 |
| Shigellosis | 7,26E-03 | 14 | 8 |
| Salivary secretion | 7,59E-03 | 17 | 7 |
| Chronic myeloid leukemia | 8,05E-03 | 22 | 12 |
| Endometrial cancer | 8,10E-03 | 17 | 10 |
| Melanogenesis | 8,61E-03 | 19 | 8 |
| Gastric acid secretion | 9,72E-03 | 15 | 8 |
| Chemokine signaling pathway | 1,05E-02 | 31 | 11 |
| Alzheimer's disease | 1,19E-02 | 28 | 11 |
| PI3K-Akt signaling pathway | 1,30E-02 | 64 | 14 |
| Fc epsilon RI signaling pathway | 1,33E-02 | 14 | 9 |
| Axon guidance | 1,35E-02 | 23 | 9 |
| Regulation of actin cytoskeleton | 1,66E-02 | 36 | 9 |
| Renal cell carcinoma | 1,77E-02 | 15 | 7 |
| Dorso-ventral axis formation | 1,77E-02 | 6 | 4 |
| HTLV-I infection | 1,98E-02 | 40 | 16 |
| Serotonergic synapse | 1,98E-02 | 19 | 8 |
| Oocyte meiosis | 2,30E-02 | 22 | 12 |
| T cell receptor signaling pathway | 2,35E-02 | 19 | 11 |
| Circadian rhythm | 2,35E-02 | 7 | 5 |
| Adherens junction | 2,48E-02 | 14 | 8 |
| Endocrine and other factor-regulated calcium reabsorption | 2,48E-02 | 11 | 8 |
| Fanconi anemia pathway | 2,66E-02 | 11 | 7 |
| Dopaminergic synapse | 2,74E-02 | 23 | 10 |
| Viral myocarditis | 2,92E-02 | 13 | 10 |
| Pertussis | 2,92E-02 | 14 | 7 |

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|---|----------|----|----|
| Vasopressin-regulated water reabsorption | 2,92E-02 | 10 | 5 |
| Neurotrophin signaling pathway | 3,30E-02 | 27 | 11 |
| NOD-like receptor signaling pathway | 3,30E-02 | 12 | 5 |
| Progesterone-mediated oocyte maturation | 4,13E-02 | 15 | 10 |
| Chagas disease (American trypanosomiasis) | 4,39E-02 | 18 | 11 |

Supplementary Table 2

| miRTarBase ID | microRNA | Species (micro RNA) | Target Gene | Target Gene (Entrez ID) | Species (Target Gene) | Experiments | Support Type | References (PMID) |
|---------------|---------------|---------------------|-------------|-------------------------|-----------------------|--|----------------|-------------------|
| MIRT000417 | hsa-let-7a-5p | Homo sapiens | MYC | 4609 | Homo sapiens | Western blot | Functional MTI | 20033209 |
| MIRT000417 | hsa-let-7a-5p | Homo sapiens | MYC | 4609 | Homo sapiens | qRT-PCR//Western blot | Functional MTI | 16651716 |
| MIRT000463 | hsa-let-7a-5p | Homo sapiens | NKIRAS2 | 28511 | Homo sapiens | ELISA//qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 20351193 |
| MIRT000708 | hsa-let-7a-5p | Homo sapiens | ITGB3 | 3690 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 18679415 |
| MIRT001853 | hsa-let-7a-5p | Homo sapiens | NF2 | 4771 | Homo sapiens | Luciferase reporter assay//Microarray//qRT-PCR//Western blot//Reporter assay;Other | Functional MTI | 17220301 |
| MIRT001854 | hsa-let-7a-5p | Homo sapiens | NRAS | 4893 | Homo sapiens | Western blot | Functional MTI | 19110058 |
| MIRT001854 | hsa-let-7a-5p | Homo sapiens | NRAS | 4893 | Homo sapiens | Luciferase reporter assay//Microarray | Functional MTI | 15766527 |
| MIRT001855 | hsa-let-7a-5p | Homo sapiens | KRAS | 3845 | Homo sapiens | Luciferase reporter assay//Microarray | Functional MTI | 15766527 |
| MIRT001855 | hsa-let-7a-5p | Homo sapiens | KRAS | 3845 | Homo sapiens | Western blot | Functional MTI | 20033209 |
| MIRT001855 | hsa-let-7a-5p | Homo sapiens | KRAS | 3845 | Homo sapiens | qRT-PCR//Western blot | Functional MTI | 16651716 |
| MIRT001936 | hsa-let-7a-5p | Homo sapiens | PRDM1 | 639 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18583325 |
| MIRT001936 | hsa-let-7a-5p | Homo sapiens | PRDM1 | 639 | Homo sapiens | Immunohistochemistry//Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20651244 |
| MIRT002077 | hsa-let-7a-5p | Homo sapiens | TRIM71 | 131405 | Homo sapiens | Luciferase reporter assay//Reporter assay | Functional MTI | 17890240 |
| MIRT002077 | hsa-let-7a-5p | Homo sapiens | TRIM71 | 131405 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18829576 |
| MIRT002305 | hsa-let-7a-5p | Homo sapiens | RAVER2 | 55225 | Homo sapiens | Immunoprecipitation//Luciferase reporter assay//Western blot | Functional MTI | 17637574 |
| MIRT002323 | hsa-let-7a-5p | Homo sapiens | HMGA2 | 8091 | Homo sapiens | qRT-PCR//Western blot//Luciferase reporter assay | Functional MTI | 17600087 |
| MIRT002323 | hsa-let-7a-5p | Homo sapiens | HMGA2 | 8091 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18083101 |
| MIRT002323 | hsa-let-7a-5p | Homo sapiens | HMGA2 | 8091 | Homo sapiens | Luciferase reporter assay | Functional MTI | 17322030 |
| MIRT002323 | hsa-let-7a-5p | Homo sapiens | HMGA2 | 8091 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18413822 |
| MIRT002323 | hsa-let-7a-5p | Homo sapiens | HMGA2 | 8091 | Homo sapiens | Luciferase reporter assay//Western blot//qRT-PCR | Functional MTI | 19179606 |
| MIRT003152 | hsa-let-7a-5p | Homo sapiens | HMGA1 | 3159 | Homo sapiens | Luciferase reporter assay//qRT-PCR | Functional MTI | 19179606 |
| MIRT003522 | hsa-let-7a-5p | Homo sapiens | AGO4 | 192670 | Homo sapiens | Luciferase reporter assay | Functional MTI | 20144220 |

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|------------|-----------------|--------------|---------|--------|--------------|--|---------------------------|----------|
| MIRT004321 | hsa-let-7a-5p | Homo sapiens | UHRF 2 | 115426 | Homo sapiens | qRT-PCR//Western blot/Luciferase reporter assay | Functional MTI | 19818775 |
| MIRT004346 | hsa-let-7a-5p | Homo sapiens | DICER 1 | 23405 | Homo sapiens | Luciferase reporter assay//Western blot//Northern blot | Functional MTI | 18700235 |
| MIRT004471 | hsa-let-7a-5p | Homo sapiens | HRAS | 3265 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18083101 |
| MIRT004520 | hsa-let-7a-5p | Homo sapiens | IGF2 | 3481 | Homo sapiens | Luciferase reporter assay | Functional MTI | 17974952 |
| MIRT004801 | hsa-let-7a-5p | Homo sapiens | LIN28 A | 79727 | Homo sapiens | B-globin reporter assay//Luciferase reporter assay//Microarray | Functional MTI | 16495412 |
| MIRT005292 | hsa-let-7a-5p | Homo sapiens | CASP3 | 836 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 18758960 |
| MIRT005420 | hsa-let-7a-5p | Homo sapiens | IL6 | 3569 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 19878981 |
| MIRT005477 | hsa-let-7a-5p | Homo sapiens | E2F2 | 1870 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20418948 |
| MIRT005478 | hsa-let-7a-5p | Homo sapiens | CCND 2 | 894 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20418948 |
| MIRT032506 | hsa-let-7a-5p | Homo sapiens | CDKN 1A | 1026 | Homo sapiens | Western blot | Functional MTI | 19818775 |
| MIRT035534 | hsa-let-7a-5p | Homo sapiens | HAS2 | 3037 | Homo sapiens | Luciferase reporter assay | Functional MTI | 22871741 |
| MIRT035541 | hsa-let-7a-5p | Homo sapiens | EGFR | 1956 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23032975 |
| MIRT003596 | hsa-miR-135b-5p | Homo sapiens | BGLA P | 632 | Homo sapiens | qRT-PCR | Non-Functional (Weak) MTI | 19795981 |
| MIRT003597 | hsa-miR-135b-5p | Homo sapiens | RUNX 2 | 860 | Homo sapiens | qRT-PCR | Non-Functional (Weak) MTI | 19795981 |
| MIRT005440 | hsa-miR-135b-5p | Homo sapiens | KLF4 | 9314 | Homo sapiens | Luciferase reporter assay//Microarray//qRT-PCR | Functional MTI | 20981674 |
| MIRT005442 | hsa-miR-135b-5p | Homo sapiens | MAFB | 9935 | Homo sapiens | Luciferase reporter assay//Microarray//qRT-PCR | Functional MTI | 20981674 |
| MIRT007298 | hsa-miR-135b-5p | Homo sapiens | CASR | 846 | Homo sapiens | Western blot | Functional MTI | 23340180 |
| MIRT000305 | hsa-miR-145-5p | Homo sapiens | BNIP3 | 664 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20332243 |
| MIRT000307 | hsa-miR-145-5p | Homo sapiens | SOX2 | 6657 | Homo sapiens | FACS//Flow//GFP reporter assay//In situ hybridization//Luciferase reporter assay//qRT-PCR//Reporter assay;Western blot;qRT-PCR;Other | Functional MTI | 19409607 |
| MIRT000307 | hsa-miR-145-5p | Homo sapiens | SOX2 | 6657 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23541921 |
| MIRT000308 | hsa-miR-145-5p | Homo sapiens | KLF4 | 9314 | Homo sapiens | FACS//Flow//GFP reporter assay//In situ hybridization//Luciferase reporter assay//qRT-PCR//Reporter assay;Western blot;qRT-PCR | Functional MTI | 19409607 |
| MIRT000426 | hsa-miR-145-5p | Homo sapiens | MUC1 | 4582 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 20407606 |
| MIRT000426 | hsa-miR-145-5p | Homo sapiens | MUC1 | 4582 | Homo sapiens | Immunohistochemistry//Luciferase reporter assay//qRT-PCR//Western blot//Reporter assay | Functional MTI | 19996288 |

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|------------|----------------|--------------|--------|------|--------------|---|----------------|----------|
| MIRT000457 | hsa-miR-145-5p | Homo sapiens | MYO6 | 4646 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 20353999 |
| MIRT006494 | hsa-miR-145-5p | Homo sapiens | ITGB8 | 3696 | Homo sapiens | Immunofluorescence//Luciferase reporter assay//qRT-PCR//GFP reporter assay//In situ hybridization//Microarray//Western blot | Functional MTI | 21701675 |
| MIRT000626 | hsa-miR-145-5p | Homo sapiens | STAT1 | 6772 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot//Microarray | Functional MTI | 20098684 |
| MIRT000627 | hsa-miR-145-5p | Homo sapiens | YES1 | 7525 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot//Microarray | Functional MTI | 20098684 |
| MIRT000627 | hsa-miR-145-5p | Homo sapiens | YES1 | 7525 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT000676 | hsa-miR-145-5p | Homo sapiens | CBFB | 865 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Microarray//Reporter assay;Other | Functional MTI | 19915607 |
| MIRT000677 | hsa-miR-145-5p | Homo sapiens | PPP3CA | 5530 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Microarray//Reporter assay;Other | Functional MTI | 19915607 |
| MIRT000678 | hsa-miR-145-5p | Homo sapiens | CLINT1 | 9685 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Microarray//Reporter assay;Other | Functional MTI | 19915607 |
| MIRT000731 | hsa-miR-145-5p | Homo sapiens | IRS1 | 3667 | Homo sapiens | Luciferase reporter assay//Northern blot//qRT-PCR//Western blot//Reporter assay;Other | Functional MTI | 17827156 |
| MIRT000731 | hsa-miR-145-5p | Homo sapiens | IRS1 | 3667 | Homo sapiens | qRT-PCR//Western blot | Functional MTI | 19391107 |
| MIRT000731 | hsa-miR-145-5p | Homo sapiens | IRS1 | 3667 | Homo sapiens | Luciferase reporter assay | Functional MTI | 22431718 |
| MIRT000731 | hsa-miR-145-5p | Homo sapiens | IRS1 | 3667 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 23201159 |
| MIRT000732 | hsa-miR-145-5p | Homo sapiens | | | Homo sapiens | Luciferase reporter assay | Functional MTI | 15131085 |
| MIRT006332 | hsa-miR-145-5p | Homo sapiens | IRS2 | 8660 | Homo sapiens | Luciferase reporter assay | Functional MTI | 22431718 |
| MIRT006215 | hsa-miR-145-5p | Homo sapiens | VEGFA | 7422 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 22472569 |
| MIRT003543 | hsa-miR-145-5p | Homo sapiens | FSCN1 | 6624 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20160723 |
| MIRT003543 | hsa-miR-145-5p | Homo sapiens | FSCN1 | 6624 | Homo sapiens | Luciferase reporter assay//Microarray//qRT-PCR//Western blot//Reporter assay;Western blot;qRT-PCR;Microarray | Functional MTI | 21351259 |
| MIRT003543 | hsa-miR-145-5p | Homo sapiens | FSCN1 | 6624 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot//Reporter assay | Functional MTI | 20198616 |
| MIRT003543 | hsa-miR-145-5p | Homo sapiens | FSCN1 | 6624 | Homo sapiens | Reporter assay | Functional MTI | 21258769 |
| MIRT004290 | hsa-miR-145-5p | Homo sapiens | MYC | 4609 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 19202062 |
| MIRT004290 | hsa-miR-145-5p | Homo sapiens | MYC | 4609 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 21092188 |
| MIRT004496 | hsa-miR-145-5p | Homo sapiens | FLI1 | 2313 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 20382729 |
| MIRT004496 | hsa-miR-145-5p | Homo sapiens | FLI1 | 2313 | Homo sapiens | Luciferase reporter assay//Northern blot//qRT-PCR//Western blot | Functional MTI | 20737575 |
| MIRT004496 | hsa-miR- | Homo | FLI1 | 2313 | Homo | Luciferase reporter assay//Western blot | Functional MTI | 21217773 |

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|------------|----------------|--------------|-----------|--------|--------------|--|---------------------------|----------|
| | 145-5p | sapiens | | | sapiens | | | |
| MIRT004580 | hsa-miR-145-5p | Homo sapiens | | | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20687965 |
| MIRT004616 | hsa-miR-145-5p | Homo sapiens | IFNB1 | 3456 | Homo sapiens | ELISA//Luciferase reporter assay//qRT-PCR | Functional MTI | 20130213 |
| MIRT004748 | hsa-miR-145-5p | Homo sapiens | TIRAP | 114609 | Homo sapiens | Immunoprecipitaion//Western blot//Communoprecipitaion | Functional MTI | 19898489 |
| MIRT004904 | hsa-miR-145-5p | Homo sapiens | POU5F1 | 5460 | Homo sapiens | FACS//Flow//GFP reporter assay//In situ hybridization//Luciferase reporter assay//qRT-PCR//Reporter assay;Western blot;qRT-PCR | Functional MTI | 19409607 |
| MIRT004904 | hsa-miR-145-5p | Homo sapiens | POU5F1 | 5460 | Homo sapiens | Luciferase reporter assay | Functional MTI | 21496429 |
| MIRT004904 | hsa-miR-145-5p | Homo sapiens | POU5F1 | 5460 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23541921 |
| MIRT004931 | hsa-miR-145-5p | Homo sapiens | IGF1R | 3480 | Homo sapiens | qRT-PCR//Western blot | Functional MTI | 19391107 |
| MIRT004938 | hsa-miR-145-5p | Homo sapiens | KRT7 | 3855 | Homo sapiens | Immunoblot//qRT-PCR | Non-Functional MTI (Weak) | 19378336 |
| MIRT005809 | hsa-miR-145-5p | Homo sapiens | ROBO2 | 6092 | Homo sapiens | In situ hybridization//Luciferase reporter assay//qRT-PCR//western blot//Reporter assay | Functional MTI | 21276775 |
| MIRT005810 | hsa-miR-145-5p | Homo sapiens | SRGA P1 | 57522 | Homo sapiens | In situ hybridization//Luciferase reporter assay//qRT-PCR//western blot | Functional MTI | 21276775 |
| MIRT005878 | hsa-miR-145-5p | Homo sapiens | EIF4E | 1977 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 21092188 |
| MIRT005879 | hsa-miR-145-5p | Homo sapiens | CDK4 | 1019 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 21092188 |
| MIRT006317 | hsa-miR-145-5p | Homo sapiens | SERP1 NE1 | 5054 | Homo sapiens | Immunoblot//Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 22108519 |
| MIRT006747 | hsa-miR-145-5p | Homo sapiens | SWAP70 | 23075 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT006747 | hsa-miR-145-5p | Homo sapiens | SWAP70 | 23075 | Homo sapiens | Reporter assay;Western blot;qRT-PCR | Functional MTI | 21360565 |
| MIRT006889 | hsa-miR-145-5p | Homo sapiens | NEDD9 | 4739 | Homo sapiens | Immunofluorescence//Immunohistochemistry//qRT-PCR//Western blot | Functional MTI | 22869051 |
| MIRT006889 | hsa-miR-145-5p | Homo sapiens | NEDD9 | 4739 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23355420 |
| MIRT006899 | hsa-miR-145-5p | Homo sapiens | PAK4 | 10298 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 22766504 |
| MIRT006903 | hsa-miR-145-5p | Homo sapiens | DDX17 | 10521 | Homo sapiens | Luciferase reporter assay//Northern blot//qRT-PCR//Western blot | Functional MTI | 22876303 |
| MIRT007094 | hsa-miR-145-5p | Homo sapiens | ERG | 2078 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23480797 |
| MIRT007107 | hsa-miR-145-5p | Homo sapiens | NRAS | 4893 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 23201159 |
| MIRT007180 | hsa-miR-145-5p | Homo sapiens | ILK | 3611 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 23104321 |
| MIRT007247 | hsa-miR-145-5p | Homo sapiens | CTGF | 1490 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23390502 |

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|------------|----------------|--------------|----------|--------|--------------|---|----------------|----------|
| MIRT007248 | hsa-miR-145-5p | Homo sapiens | SOCS7 | 30837 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23392170 |
| MIRT007257 | hsa-miR-145-5p | Homo sapiens | MDM2 | 4193 | Homo sapiens | Luciferase reporter assay | Functional MTI | 22330136 |
| MIRT007275 | hsa-miR-145-5p | Homo sapiens | ADAM17 | 6868 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23441135 |
| MIRT007288 | hsa-miR-145-5p | Homo sapiens | CDH2 | 1000 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 22370644 |
| MIRT007307 | hsa-miR-145-5p | Homo sapiens | HDAC2 | 3066 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23499894 |
| MIRT021499 | hsa-miR-145-5p | Homo sapiens | RTKN | 6242 | Homo sapiens | Reporter assay;Western blot;qRT-PCR;Other | Functional MTI | 19360360 |
| MIRT021501 | hsa-miR-145-5p | Homo sapiens | F11R | 50848 | Homo sapiens | Reporter assay | Functional MTI | 20818426 |
| MIRT021501 | hsa-miR-145-5p | Homo sapiens | F11R | 50848 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021502 | hsa-miR-145-5p | Homo sapiens | ARL6IP5 | 10550 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021503 | hsa-miR-145-5p | Homo sapiens | AKR1B10 | 57016 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021504 | hsa-miR-145-5p | Homo sapiens | C11orf65 | 160140 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021505 | hsa-miR-145-5p | Homo sapiens | HLTF | 6596 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021506 | hsa-miR-145-5p | Homo sapiens | GMFB | 2764 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021507 | hsa-miR-145-5p | Homo sapiens | SERINC5 | 256987 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021508 | hsa-miR-145-5p | Homo sapiens | MEST | 4232 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021509 | hsa-miR-145-5p | Homo sapiens | ALPPL2 | 251 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021510 | hsa-miR-145-5p | Homo sapiens | NDRG2 | 57447 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021511 | hsa-miR-145-5p | Homo sapiens | DTD1 | 92675 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021512 | hsa-miR-145-5p | Homo sapiens | TPM3 | 7170 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021513 | hsa-miR-145-5p | Homo sapiens | MAP2K6 | 5608 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021514 | hsa-miR-145-5p | Homo sapiens | CEP19 | 84984 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021515 | hsa-miR-145-5p | Homo sapiens | TPRG1 | 285386 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021516 | hsa-miR-145-5p | Homo sapiens | GOLM1 | 51280 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021517 | hsa-miR-145-5p | Homo sapiens | CCDC43 | 124808 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |

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|------------|----------------|--------------|----------|--------|--------------|---------------------------|----------------|----------|
| MIRT021518 | hsa-miR-145-5p | Homo sapiens | MMP1 | 4312 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021519 | hsa-miR-145-5p | Homo sapiens | PTP4A2 | 8073 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021520 | hsa-miR-145-5p | Homo sapiens | TMEM9B | 56674 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021521 | hsa-miR-145-5p | Homo sapiens | MMP12 | 4321 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021522 | hsa-miR-145-5p | Homo sapiens | MTMR14 | 64419 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021523 | hsa-miR-145-5p | Homo sapiens | ALDH3A1 | 218 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021524 | hsa-miR-145-5p | Homo sapiens | NDUF A4 | 4697 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021525 | hsa-miR-145-5p | Homo sapiens | FAM3C | 10447 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021526 | hsa-miR-145-5p | Homo sapiens | LYPLA2 | 11313 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021527 | hsa-miR-145-5p | Homo sapiens | FAM45A | 404636 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021528 | hsa-miR-145-5p | Homo sapiens | PIGF | 5281 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021529 | hsa-miR-145-5p | Homo sapiens | AP1G1 | 164 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021530 | hsa-miR-145-5p | Homo sapiens | PHF17 | 79960 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021531 | hsa-miR-145-5p | Homo sapiens | NIPSNAP1 | 8508 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021532 | hsa-miR-145-5p | Homo sapiens | KREMEN1 | 83999 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021533 | hsa-miR-145-5p | Homo sapiens | MMP14 | 4323 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021534 | hsa-miR-145-5p | Homo sapiens | ABRACL | 58527 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021535 | hsa-miR-145-5p | Homo sapiens | MIXL1 | 83881 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021536 | hsa-miR-145-5p | Homo sapiens | TSPAN6 | 7105 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021537 | hsa-miR-145-5p | Homo sapiens | PODXL | 5420 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021538 | hsa-miR-145-5p | Homo sapiens | APH1A | 51107 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT021539 | hsa-miR-145-5p | Homo sapiens | ABHD17C | 58489 | Homo sapiens | Reporter assay;Microarray | Functional MTI | 21351259 |
| MIRT035522 | hsa-miR-145-5p | Homo sapiens | NANOG | 79923 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23541921 |
| MIRT035535 | hsa-miR-145-5p | Homo sapiens | MYO5A | 4644 | Homo sapiens | Luciferase reporter assay | Functional MTI | 22895360 |

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|------------|----------------|--------------|---------|-------|--------------|--|----------------|----------|
| MIRT000280 | hsa-miR-15a-5p | Homo sapiens | BMI1 | 648 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 19903841 |
| MIRT000282 | hsa-miR-15a-5p | Homo sapiens | WNT3 A | 89780 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18931683 |
| MIRT000283 | hsa-miR-15a-5p | Homo sapiens | MYB | 4602 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 18818396 |
| MIRT000283 | hsa-miR-15a-5p | Homo sapiens | MYB | 4602 | Homo sapiens | Luciferase reporter assay//Microarray//qRT-PCR | Functional MTI | 21205891 |
| MIRT000284 | hsa-miR-15a-5p | Homo sapiens | CDC25 A | 993 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18949056 |
| MIRT000285 | hsa-miR-15a-5p | Homo sapiens | CCND 2 | 894 | Homo sapiens | Luciferase reporter assay | Functional MTI | 19549910 |
| MIRT000815 | hsa-miR-15a-5p | Homo sapiens | BCL2 | 596 | Homo sapiens | Luciferase reporter assay | Functional MTI | 17707831 |
| MIRT000815 | hsa-miR-15a-5p | Homo sapiens | BCL2 | 596 | Homo sapiens | Luciferase reporter assay | Functional MTI | 19478946 |
| MIRT000815 | hsa-miR-15a-5p | Homo sapiens | BCL2 | 596 | Homo sapiens | Western blot | Functional MTI | 20876285 |
| MIRT000815 | hsa-miR-15a-5p | Homo sapiens | BCL2 | 596 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 16166262 |
| MIRT000815 | hsa-miR-15a-5p | Homo sapiens | BCL2 | 596 | Homo sapiens | Western blot | Functional MTI | 19903841 |
| MIRT001227 | hsa-miR-15a-5p | Homo sapiens | CCND 1 | 595 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 19591824 |
| MIRT001227 | hsa-miR-15a-5p | Homo sapiens | CCND 1 | 595 | Homo sapiens | Luciferase reporter assay | Functional MTI | 19549910 |
| MIRT001227 | hsa-miR-15a-5p | Homo sapiens | CCND 1 | 595 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18931683 |
| MIRT001228 | hsa-miR-15a-5p | Homo sapiens | CCNE 1 | 898 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 19591824 |
| MIRT001228 | hsa-miR-15a-5p | Homo sapiens | CCNE 1 | 898 | Homo sapiens | Luciferase reporter assay | Functional MTI | 19549910 |
| MIRT001228 | hsa-miR-15a-5p | Homo sapiens | CCNE 1 | 898 | Homo sapiens | immunohistochemistry//Luciferase reporter assay//Microarray//qRT-PCR | Functional MTI | 19117988 |
| MIRT002946 | hsa-miR-15a-5p | Homo sapiens | DMTF 1 | 9988 | Homo sapiens | Luciferase reporter assay//Reporter assay | Functional MTI | 15131085 |
| MIRT003333 | hsa-miR-15a-5p | Homo sapiens | BRCA 1 | 672 | Homo sapiens | Luciferase reporter assay | Functional MTI | 19144710 |
| MIRT003334 | hsa-miR-15a-5p | Homo sapiens | AKT3 | 10000 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23233752 |
| MIRT003888 | hsa-miR-15a-5p | Homo sapiens | CADM 1 | 23705 | Homo sapiens | Reporter assay//qRT-PCR | Functional MTI | 18362358 |
| MIRT004046 | hsa-miR-15a-5p | Homo sapiens | UCP2 | 7351 | Homo sapiens | Luciferase reporter assay//qRT-PCR | Functional MTI | 21146880 |
| MIRT004275 | hsa-miR-15a-5p | Homo sapiens | VEGF A | 7422 | Homo sapiens | ELISA//Luciferase reporter assay | Functional MTI | 18320040 |
| MIRT004275 | hsa-miR-15a-5p | Homo sapiens | VEGF A | 7422 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 23104180 |

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|------------|-----------------|--------------|----------|--------|--------------|--|----------------|----------|
| MIRT004275 | hsa-miR-15a-5p | Homo sapiens | VEGF A | 7422 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23233752 |
| MIRT004680 | hsa-miR-15a-5p | Homo sapiens | TSPYL 2 | 64061 | Homo sapiens | Luciferase reporter assay | Functional MTI | 19478946 |
| MIRT005552 | hsa-miR-15a-5p | Homo sapiens | CHUK | 1147 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20711193 |
| MIRT005763 | hsa-miR-15a-5p | Homo sapiens | TP53 | 7157 | Homo sapiens | Immunoblot/Luciferase reporter assay | Functional MTI | 21205967 |
| MIRT006913 | hsa-miR-15a-5p | Homo sapiens | IFNG | 3458 | Homo sapiens | Luciferase reporter assay//qRT-PCR | Functional MTI | 22379033 |
| MIRT006998 | hsa-miR-15a-5p | Homo sapiens | PURA | 5813 | Homo sapiens | Luciferase reporter assay | Functional MTI | 22835829 |
| MIRT007090 | hsa-miR-15a-5p | Homo sapiens | RECK | 8434 | Homo sapiens | GFP reporter assay//qRT-PCR | Functional MTI | 23176145 |
| MIRT003297 | hsa-miR-186-5p | Homo sapiens | FOXO 1 | 2308 | Homo sapiens | Immunohistochemistry//Northern blot/qRT-PCR//Western blot | Functional MTI | 20028871 |
| MIRT004356 | hsa-miR-186-5p | Homo sapiens | P2RX7 | 5027 | Homo sapiens | qRT-PCR//Luciferase reporter assay | Functional MTI | 18682393 |
| MIRT005871 | hsa-miR-186-5p | Homo sapiens | AKAP 12 | 9590 | Homo sapiens | Immunohistochemistry//Luciferase reporter assay//Microarray//qRT-PCR//Western blot | Functional MTI | 20979053 |
| MIRT007210 | hsa-miR-186-5p | Homo sapiens | CSNK 2A1 | 1457 | Homo sapiens | Immunoblot/Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 23137536 |
| MIRT000480 | hsa-miR-193b-3p | Homo sapiens | CCND 1 | 595 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot//Microarray//Reporter assay;Western blot;qRT-PCR;Microarray;Other | Functional MTI | 20304954 |
| MIRT000480 | hsa-miR-193b-3p | Homo sapiens | CCND 1 | 595 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20655737 |
| MIRT000701 | hsa-miR-193b-3p | Homo sapiens | ESR1 | 2099 | Homo sapiens | Luciferase reporter assay//Microarray | Functional MTI | 19684618 |
| MIRT004413 | hsa-miR-193b-3p | Homo sapiens | PLAU | 5328 | Homo sapiens | Western blot/Luciferase reporter assay | Functional MTI | 19701247 |
| MIRT004414 | hsa-miR-193b-3p | Homo sapiens | PRAP1 | 118471 | Homo sapiens | Luciferase reporter assay | Functional MTI | 21779487 |
| MIRT004663 | hsa-miR-193b-3p | Homo sapiens | MCL1 | 4170 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 20103677 |
| MIRT005516 | hsa-miR-193b-3p | Homo sapiens | ETS1 | 2113 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20655737 |
| MIRT006983 | hsa-miR-193b-3p | Homo sapiens | YWH AZ | 7534 | Homo sapiens | Luciferase reporter assay//Reporter assay;Proteomics | Functional MTI | 21512034 |
| MIRT006985 | hsa-miR-193b-3p | Homo sapiens | SHMT 2 | 6472 | Homo sapiens | Luciferase reporter assay//Reporter assay;Proteomics | Functional MTI | 21512034 |
| MIRT006986 | hsa-miR-193b-3p | Homo sapiens | AKR1 C2 | 1646 | Homo sapiens | Luciferase reporter assay//Reporter assay;Proteomics | Functional MTI | 21512034 |
| MIRT000222 | hsa-miR-195-5p | Homo sapiens | WEE1 | 7465 | Homo sapiens | ELISA//GFP reporter assay//Luciferase reporter assay//Microarray//qRT-PCR//Western blot | Functional MTI | 19823043 |
| MIRT000223 | hsa-miR-195-5p | Homo sapiens | E2F3 | 1871 | Homo sapiens | Immunohistochemistry//Luciferase reporter assay//Northern blot//qRT-PCR//Western blot//Reporter assay;Western blot;qRT-PCR;Other | Functional MTI | 19441017 |

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|------------|----------------|--------------|--------|--------|--------------|--|---------------------------|----------|
| MIRT000223 | hsa-miR-195-5p | Homo sapiens | E2F3 | 1871 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 22217655 |
| MIRT000224 | hsa-miR-195-5p | Homo sapiens | CDK6 | 1021 | Homo sapiens | Reporter assay;Western blot;qRT-PCR;Other | Functional MTI | 19441017 |
| MIRT000225 | hsa-miR-195-5p | Homo sapiens | CCND1 | 595 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 22217655 |
| MIRT000225 | hsa-miR-195-5p | Homo sapiens | CCND1 | 595 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23383003 |
| MIRT006246 | hsa-miR-195-5p | Homo sapiens | CCND3 | 896 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 22217655 |
| MIRT006245 | hsa-miR-195-5p | Homo sapiens | TBCCD1 | 55171 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 22217655 |
| MIRT006252 | hsa-miR-195-5p | Homo sapiens | CDK4 | 1019 | Homo sapiens | Luciferase reporter assay | Functional MTI | 22289176 |
| MIRT004273 | hsa-miR-195-5p | Homo sapiens | VEGFA | 7422 | Homo sapiens | ELISA//Luciferase reporter assay | Functional MTI | 18320040 |
| MIRT004669 | hsa-miR-195-5p | Homo sapiens | CCL4 | 6351 | Homo sapiens | ELISA//Immunoprecipitaion//qRT-PCR//Western blot | Functional MTI | 20952681 |
| MIRT004937 | hsa-miR-195-5p | Homo sapiens | KRT7 | 3855 | Homo sapiens | Immunoblot//qRT-PCR | Non-Functional MTI (Weak) | 19378336 |
| MIRT005362 | hsa-miR-195-5p | Homo sapiens | BCL2 | 596 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20727858 |
| MIRT006235 | hsa-miR-195-5p | Homo sapiens | SLC2A3 | 6515 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 22265971 |
| MIRT006995 | hsa-miR-195-5p | Homo sapiens | CDC42 | 998 | Homo sapiens | Luciferase reporter assay | Functional MTI | 22802111 |
| MIRT007054 | hsa-miR-195-5p | Homo sapiens | CAB39 | 51719 | Homo sapiens | Immunocytochemistry//In situ hybridization//Northern blot//qRT-PCR//Western blot | Functional MTI | 22844503 |
| MIRT007169 | hsa-miR-195-5p | Homo sapiens | CHUK | 1147 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23487264 |
| MIRT007170 | hsa-miR-195-5p | Homo sapiens | TAB3 | 257397 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23487264 |
| MIRT007219 | hsa-miR-195-5p | Homo sapiens | MBD1 | 4152 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23349673 |
| MIRT007237 | hsa-miR-195-5p | Homo sapiens | CCNE1 | 898 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23383003 |
| MIRT007370 | hsa-miR-195-5p | Homo sapiens | BCL2L2 | 599 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 23526568 |
| MIRT000018 | hsa-miR-222-3p | Homo sapiens | STAT5A | 6776 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 20489169 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Luciferase reporter assay//Western blot//Western blot;Other//Northern blot | Functional MTI | 17569667 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 19153141 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Western blot//Northern blot | Functional MTI | 19107213 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 19859555 |

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|------------|----------------|--------------|--------|-------|--------------|--|----------------|----------|
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 18417445 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Luciferase reporter assay | Functional MTI | 19150885 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18983236 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18246122 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Northern blot//qRT-PCR//Western blot | Functional MTI | 20018759 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Immunohistochemistry//In situ hybridization//Luciferase reporter assay//Northern blot//Western blot//Reporter assay;Western blot | Functional MTI | 19424584 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Western blot//Reporter assay | Functional MTI | 17721077 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Luciferase reporter assay | Functional MTI | 17627278 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | qRT-PCR//Western blot | Functional MTI | 18708351 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Reporter assay | Functional MTI | 17914108 |
| MIRT000131 | hsa-miR-222-3p | Homo sapiens | CDKN1B | 1027 | Homo sapiens | Reporter assay | Functional MTI | 18413744 |
| MIRT000135 | hsa-miR-222-3p | Homo sapiens | SOD2 | 6648 | Homo sapiens | Flow//Luciferase reporter assay//Microarray//qRT-PCR//Western blot | Functional MTI | 19487542 |
| MIRT000136 | hsa-miR-222-3p | Homo sapiens | MMP1 | 4312 | Homo sapiens | Flow//Luciferase reporter assay//Microarray//qRT-PCR//Western blot | Functional MTI | 19487542 |
| MIRT000433 | hsa-miR-222-3p | Homo sapiens | FOXO3 | 2309 | Homo sapiens | qRT-PCR//ChIP//Luciferase reporter assay//Western blot//Northern blot | Functional MTI | 20388878 |
| MIRT006377 | hsa-miR-222-3p | Homo sapiens | DICER1 | 23405 | Homo sapiens | Luciferase reporter assay | Functional MTI | 21761362 |
| MIRT000719 | hsa-miR-222-3p | Homo sapiens | CDKN1C | 1028 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot | Functional MTI | 19153141 |
| MIRT000719 | hsa-miR-222-3p | Homo sapiens | CDKN1C | 1028 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 19589872 |
| MIRT000719 | hsa-miR-222-3p | Homo sapiens | CDKN1C | 1028 | Homo sapiens | Luciferase reporter assay//Reporter assay;Other | Functional MTI | 18413744 |
| MIRT001779 | hsa-miR-222-3p | Homo sapiens | KIT | 3815 | Homo sapiens | qRT-PCR//Western blot | Functional MTI | 18417445 |
| MIRT001779 | hsa-miR-222-3p | Homo sapiens | KIT | 3815 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18246122 |
| MIRT001779 | hsa-miR-222-3p | Homo sapiens | KIT | 3815 | Homo sapiens | Luciferase reporter assay | Functional MTI | 18983236 |
| MIRT001779 | hsa-miR-222-3p | Homo sapiens | KIT | 3815 | Homo sapiens | Northern blot//qRT-PCR//Western blot | Functional MTI | 16365291 |
| MIRT001779 | hsa-miR-222-3p | Homo sapiens | KIT | 3815 | Homo sapiens | Reporter assay | Functional MTI | 16330772 |
| MIRT002334 | hsa-miR- | Homo | TMED | 51014 | Homo | Western blot | Functional MTI | 21226887 |

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|------------|----------------|--------------|---------|-------|--------------|---|----------------|----------|
| | 222-3p | sapiens | 7 | | sapiens | | | |
| MIRT002334 | hsa-miR-222-3p | Homo sapiens | TMED7 | 51014 | Homo sapiens | Western blot;qRT-PCR | Functional MTI | 20018759 |
| MIRT006064 | hsa-miR-222-3p | Homo sapiens | ETS1 | 2113 | Homo sapiens | Luciferase reporter assay//qRT-PCR | Functional MTI | 23522449 |
| MIRT003191 | hsa-miR-222-3p | Homo sapiens | PPP2R2A | 5520 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 20103675 |
| MIRT003191 | hsa-miR-222-3p | Homo sapiens | PPP2R2A | 5520 | Homo sapiens | Reporter assay;Western blot | Functional MTI | 21656127 |
| MIRT003451 | hsa-miR-222-3p | Homo sapiens | TIMP3 | 7078 | Homo sapiens | Flow//Immunohistochemistry//Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 19962668 |
| MIRT003451 | hsa-miR-222-3p | Homo sapiens | TIMP3 | 7078 | Homo sapiens | Immunohistochemistry//In situ hybridization//qRT-PCR//Western blot | Functional MTI | 22009755 |
| MIRT003451 | hsa-miR-222-3p | Homo sapiens | TIMP3 | 7078 | Homo sapiens | ELISA//Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 22681957 |
| MIRT003756 | hsa-miR-222-3p | Homo sapiens | TNFSF10 | 8743 | Homo sapiens | Western blot | Functional MTI | 18246122 |
| MIRT004485 | hsa-miR-222-3p | Homo sapiens | FOS | 2353 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot//Northern blot | Functional MTI | 20299489 |
| MIRT004485 | hsa-miR-222-3p | Homo sapiens | FOS | 2353 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23400877 |
| MIRT005321 | hsa-miR-222-3p | Homo sapiens | ESR1 | 2099 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 18790736 |
| MIRT005369 | hsa-miR-222-3p | Homo sapiens | BBC3 | 27113 | Homo sapiens | Immunohistochemistry//In situ hybridization//Luciferase reporter assay//Northern blot//Western blot | Functional MTI | 20813046 |
| MIRT005586 | hsa-miR-222-3p | Homo sapiens | PTEN | 5728 | Homo sapiens | FACS//Flow//Luciferase reporter assay//Northern blot//Western blot | Functional MTI | 20618998 |
| MIRT005586 | hsa-miR-222-3p | Homo sapiens | PTEN | 5728 | Homo sapiens | Flow//Immunohistochemistry//Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 19962668 |
| MIRT005586 | hsa-miR-222-3p | Homo sapiens | PTEN | 5728 | Homo sapiens | Western blot | Functional MTI | 23028614 |
| MIRT005791 | hsa-miR-222-3p | Homo sapiens | CORO1A | 11151 | Homo sapiens | Western blot | Functional MTI | 21226887 |
| MIRT005792 | hsa-miR-222-3p | Homo sapiens | TCEAL1 | 9338 | Homo sapiens | Western blot | Functional MTI | 21226887 |
| MIRT006728 | hsa-miR-222-3p | Homo sapiens | RECK | 8434 | Homo sapiens | Luciferase reporter assay | Functional MTI | 22321642 |
| MIRT006918 | hsa-miR-222-3p | Homo sapiens | CERS2 | 29956 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 22393241 |
| MIRT000109 | hsa-miR-26a-5p | Homo sapiens | HMGA2 | 8091 | Homo sapiens | Luciferase reporter assay | Functional MTI | 17563749 |
| MIRT000110 | hsa-miR-26a-5p | Homo sapiens | HMGA1 | 3159 | Homo sapiens | Luciferase reporter assay | Functional MTI | 17563749 |
| MIRT000110 | hsa-miR-26a-5p | Homo sapiens | HMGA1 | 3159 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 22245693 |
| MIRT000111 | hsa-miR-26a-5p | Homo sapiens | CCNE2 | 9134 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 19524505 |

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|------------|----------------|--------------|--------|-------|--------------|--|---------------------------|----------|
| MIRT000112 | hsa-miR-26a-5p | Homo sapiens | CCND2 | 894 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 19524505 |
| MIRT006389 | hsa-miR-26a-5p | Homo sapiens | ESR1 | 2099 | Homo sapiens | Luciferase reporter assay | Functional MTI | 21610700 |
| MIRT006306 | hsa-miR-26a-5p | Homo sapiens | CDK6 | 1021 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 22210897 |
| MIRT001039 | hsa-miR-26a-5p | Homo sapiens | LIF | 3976 | Homo sapiens | ELISA | Non-Functional MTI (Weak) | 19011087 |
| MIRT001095 | hsa-miR-26a-5p | Homo sapiens | PTEN | 5728 | Homo sapiens | Western blot//Luciferase reporter assay | Functional MTI | 19487573 |
| MIRT001095 | hsa-miR-26a-5p | Homo sapiens | PTEN | 5728 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 20216554 |
| MIRT001095 | hsa-miR-26a-5p | Homo sapiens | PTEN | 5728 | Homo sapiens | GFP reporter assay//Luciferase reporter assay//Western blot | Functional MTI | 20080666 |
| MIRT001771 | hsa-miR-26a-5p | Homo sapiens | EZH2 | 2146 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 18713946 |
| MIRT001771 | hsa-miR-26a-5p | Homo sapiens | EZH2 | 2146 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20478051 |
| MIRT001771 | hsa-miR-26a-5p | Homo sapiens | EZH2 | 2146 | Homo sapiens | Immunohistochemistry//qRT-PCR//Western blot | Functional MTI | 21199804 |
| MIRT001771 | hsa-miR-26a-5p | Homo sapiens | EZH2 | 2146 | Homo sapiens | Immunohistochemistry//Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20952513 |
| MIRT001771 | hsa-miR-26a-5p | Homo sapiens | EZH2 | 2146 | Homo sapiens | Reporter assay | Functional MTI | 18281287 |
| MIRT001772 | hsa-miR-26a-5p | Homo sapiens | PLAG1 | 5324 | Homo sapiens | Luciferase reporter assay//Microarray//Reporter assay;Other | Functional MTI | 16461460 |
| MIRT002315 | hsa-miR-26a-5p | Homo sapiens | SERBP1 | 26135 | Homo sapiens | Immunoprecipitation//Luciferase reporter assay//Western blot | Functional MTI | 17637574 |
| MIRT002340 | hsa-miR-26a-5p | Homo sapiens | SMAD1 | 4086 | Homo sapiens | Western blot | Functional MTI | 20857419 |
| MIRT002340 | hsa-miR-26a-5p | Homo sapiens | SMAD1 | 4086 | Homo sapiens | RNase mapping analysis//Western blot//Reporter assay | Functional MTI | 17922609 |
| MIRT002340 | hsa-miR-26a-5p | Homo sapiens | SMAD1 | 4086 | Homo sapiens | Luciferase reporter assay | Functional MTI | 14697198 |
| MIRT002340 | hsa-miR-26a-5p | Homo sapiens | SMAD1 | 4086 | Homo sapiens | Luciferase reporter assay//Western blot//Reporter assay | Functional MTI | 18197755 |
| MIRT002340 | hsa-miR-26a-5p | Homo sapiens | SMAD1 | 4086 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23028144 |
| MIRT003213 | hsa-miR-26a-5p | Homo sapiens | RB1 | 5925 | Homo sapiens | GFP reporter assay//Luciferase reporter assay//Western blot | Functional MTI | 20080666 |
| MIRT003213 | hsa-miR-26a-5p | Homo sapiens | RB1 | 5925 | Homo sapiens | Luciferase reporter assay//Microarray//qRT-PCR//Western blot | Functional MTI | 23108995 |
| MIRT003212 | hsa-miR-26a-5p | Homo sapiens | MAP3K2 | 10746 | Homo sapiens | GFP reporter assay//Luciferase reporter assay//Western blot | Functional MTI | 20080666 |
| MIRT006309 | hsa-miR-26a-5p | Homo sapiens | CCNE1 | 898 | Homo sapiens | Luciferase reporter assay//Western blot | Functional MTI | 22210897 |
| MIRT003803 | hsa-miR-26a-5p | Homo sapiens | SMAD4 | 4089 | Homo sapiens | Western blot | Functional MTI | 20857419 |

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| MIRT003803 | hsa-miR-26a-5p | Homo sapiens | SMAD 4 | 4089 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23028144 |
| MIRT004615 | hsa-miR-26a-5p | Homo sapiens | IFNB1 | 3456 | Homo sapiens | ELISA//Luciferase reporter assay//qRT-PCR | Functional MTI | 20130213 |
| MIRT004676 | hsa-miR-26a-5p | Homo sapiens | GSK3 B | 2932 | Homo sapiens | Luciferase reporter assay//Microarray//qRT-PCR//Western blot | Functional MTI | 20525681 |
| MIRT005587 | hsa-miR-26a-5p | Homo sapiens | CPEB2 | 132864 | Homo sapiens | Luciferase reporter assay//Northern blot//qRT-PCR | Functional MTI | 20660482 |
| MIRT005588 | hsa-miR-26a-5p | Homo sapiens | CPEB3 | 22849 | Homo sapiens | Luciferase reporter assay//Northern blot//qRT-PCR | Functional MTI | 20660482 |
| MIRT005589 | hsa-miR-26a-5p | Homo sapiens | CPEB4 | 80315 | Homo sapiens | Luciferase reporter assay//Northern blot//qRT-PCR | Functional MTI | 20660482 |
| MIRT005751 | hsa-miR-26a-5p | Homo sapiens | GDAP 1 | 54332 | Homo sapiens | Immunofluorescence//In situ hybridization//Luciferase reporter assay//Northern blot//qRT-PCR//Western blot | Functional MTI | 20827281 |
| MIRT005920 | hsa-miR-26a-5p | Homo sapiens | MTDH | 92140 | Homo sapiens | Immunohistochemistry//Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20952513 |
| MIRT006711 | hsa-miR-26a-5p | Homo sapiens | ABCA 1 | 19 | Homo sapiens | Immunoblot//Luciferase reporter assay//qRT-PCR | Functional MTI | 22673513 |
| MIRT006712 | hsa-miR-26a-5p | Homo sapiens | ARL4 C | 10123 | Homo sapiens | Immunoblot//Luciferase reporter assay//qRT-PCR | Functional MTI | 22673513 |
| MIRT007347 | hsa-miR-26a-5p | Homo sapiens | NOS2 | 4843 | Homo sapiens | qRT-PCR//Western blot | Functional MTI | 23338972 |
| MIRT007374 | hsa-miR-26a-5p | Homo sapiens | IL6 | 3569 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23389848 |
| MIRT052649 | hsa-miR-26a-5p | Homo sapiens | MCL1 | 4170 | Homo sapiens | Western blot | Functional MTI | 23750239 |
| MIRT005458 | hsa-miR-340-5p | Homo sapiens | MET | 4233 | Homo sapiens | Immunohistochemistry//Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 21225860 |
| MIRT006217 | hsa-miR-483-5p | Homo sapiens | MAPK 3 | 5595 | Homo sapiens | Luciferase reporter assay//Microarray//qRT-PCR//Western blot | Functional MTI | 22465663 |
| MIRT004118 | hsa-miR-483-3p | Homo sapiens | SMAD 4 | 4089 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 21112326 |
| MIRT004500 | hsa-miR-483-3p | Homo sapiens | BBC3 | 27113 | Homo sapiens | qRT-PCR//Luciferase reporter assay//Western blot//Northern blot | Functional MTI | 20388800 |
| MIRT006686 | hsa-miR-483-3p | Homo sapiens | PARD 3 | 56288 | Homo sapiens | qRT-PCR//Western blot | Functional MTI | 22101077 |
| MIRT005774 | hsa-miR-616-3p | Homo sapiens | TFPI2 | 7980 | Homo sapiens | In situ hybridization//Luciferase reporter assay//Microarray//qRT-PCR | Functional MTI | 21224345 |
| MIRT007325 | hsa-miR-616-3p | Homo sapiens | PON1 | 5444 | Homo sapiens | Luciferase reporter assay | Functional MTI | 23497787 |
| MIRT000448 | hsa-miR-650 | Homo sapiens | ING4 | 51147 | Homo sapiens | Luciferase reporter assay//qRT-PCR//Western blot | Functional MTI | 20381459 |