Table S1 Details of the top 100 miRNA-disease associations and the 49 extracted associations by TCGA (where the extracted association is marked with “×” in the TCGA column)

|  |  |  |
| --- | --- | --- |
| **miRNA** | **disease** | **TCGA** |
| hsa-mir-126 | Esophageal Neoplasms | × |
| hsa-mir-9 | Stomach Neoplasms |  |
| hsa-let-7g | Lung Neoplasms | × |
| hsa-mir-21 | Melanoma |  |
| hsa-mir-19a | Medulloblastoma |  |
| hsa-mir-20a | Breast Neoplasms | × |
| hsa-mir-200b | Esophageal Neoplasms | × |
| hsa-mir-18a | Breast Neoplasms | × |
| hsa-mir-34a | Prostatic Neoplasms | × |
| hsa-mir-146b | Breast Neoplasms | × |
| hsa-mir-9 | Carcinoma, Squamous Cell |  |
| hsa-mir-1227 | Urinary Bladder Neoplasms | × |
| hsa-mir-101 | Breast Neoplasms |  |
| hsa-mir-126 | Lung Neoplasms | × |
| hsa-mir-34a | Hepatocellular Carcinoma | × |
| hsa-mir-146b | Melanoma |  |
| hsa-mir-200a | Hepatocellular Carcinoma | × |
| hsa-let-7i | Ovarian Neoplasms | × |
| hsa-mir-34b | Colorectal Carcinoma |  |
| hsa-mir-155 | Breast Neoplasms | × |
| hsa-mir-16 | Carcinoma, Squamous Cell |  |
| hsa-mir-15a | Melanoma |  |
| hsa-mir-17 | Carcinoma, Squamous Cell |  |
| hsa-mir-151a | Neoplasms |  |
| hsa-mir-17 | Leukemia | × |
| hsa-mir-125b | Neoplasms |  |
| hsa-mir-320a | Hepatocellular Carcinoma | × |
| hsa-mir-21 | Glioma | × |
| hsa-let-7d | Melanoma |  |
| hsa-mir-300 | Heart Failure |  |
| hsa-mir-142 | Breast Neoplasms | × |
| hsa-mir-106b | Glioma | × |
| hsa-mir-18a | Colorectal Carcinoma |  |
| hsa-mir-100 | Prostatic Neoplasms | × |
| hsa-mir-19a | Neoplasms |  |
| hsa-mir-3179 | Tuberculosis, Pulmonary |  |
| hsa-mir-92a | Colonic Neoplasms |  |
| hsa-mir-200b | Adenocarcinoma |  |
| hsa-mir-19b | Hepatocellular Carcinoma |  |
| hsa-mir-100 | Hepatocellular Carcinoma | × |
| hsa-mir-155 | Lung Neoplasms | × |
| hsa-mir-17 | Ovarian Neoplasms | × |
| hsa-mir-146a | Esophageal Neoplasms | × |
| hsa-mir-16 | Breast Neoplasms |  |
| hsa-mir-30b | Heart Failure |  |
| hsa-mir-190b | Neuroblastoma |  |
| hsa-mir-221 | Carcinoma, Squamous Cell |  |
| hsa-mir-125a | Heart Failure |  |
| hsa-mir-378b | Urinary Bladder Neoplasms | × |
| hsa-mir-584 | Melanoma |  |
| hsa-mir-30c | Ovarian Neoplasms |  |
| hsa-mir-20a | Heart Failure |  |
| hsa-let-7d | Retinoblastoma |  |
| hsa-mir-210 | Breast Neoplasms | × |
| hsa-mir-342 | Breast Neoplasms | × |
| hsa-mir-602 | Lupus Vulgaris |  |
| hsa-let-7i | Leukemia, Myeloid, Acute | × |
| hsa-mir-143 | Ovarian Neoplasms | × |
| hsa-mir-302b | Stomach Neoplasms | × |
| hsa-let-7i | Neoplasms |  |
| hsa-mir-205 | Colorectal Carcinoma |  |
| hsa-mir-450a | Breast Neoplasms |  |
| hsa-mir-484 | Adrenocortical Carcinoma | × |
| hsa-mir-20a | Leukemia, Myeloid | × |
| hsa-mir-193a | Hepatocellular Carcinoma | × |
| hsa-let-7d | Leukemia, Myeloid, Acute | × |
| hsa-mir-92a | Multiple Myeloma |  |
| hsa-mir-125b | Colorectal Carcinoma |  |
| hsa-mir-31 | Carcinoma, Renal Cell | × |
| hsa-mir-126 | Heart Failure |  |
| hsa-mir-133b | Colorectal Carcinoma |  |
| hsa-mir-143 | Adenocarcinoma |  |
| hsa-mir-20a | Urinary Bladder Neoplasms | × |
| hsa-mir-146a | Ovarian Neoplasms | × |
| hsa-mir-218 | Breast Neoplasms |  |
| hsa-mir-222 | Lung Neoplasms | × |
| hsa-mir-199b | Breast Neoplasms | × |
| hsa-mir-361 | Medulloblastoma |  |
| hsa-mir-106b | Colorectal Carcinoma |  |
| hsa-mir-125b | Carcinoma, Non-Small-Cell Lung |  |
| hsa-mir-203 | Carcinoma, Non-Small-Cell Lung |  |
| hsa-mir-520f | Endometriosis |  |
| hsa-mir-146b | Hepatocellular Carcinoma | × |
| hsa-mir-146a | Leukemia, Myeloid, Acute | × |
| hsa-mir-19b | Leukemia |  |
| hsa-mir-20a | Lung Neoplasms | × |
| hsa-mir-133a | Hepatocellular Carcinoma |  |
| hsa-mir-204 | Stomach Neoplasms | × |
| hsa-mir-20a | Leukemia, Lymphocytic, Chronic, B-Cell |  |
| hsa-mir-106a | Colorectal Carcinoma |  |
| hsa-mir-513c | Melanoma |  |
| hsa-mir-183 | Hepatocellular Carcinoma | × |
| hsa-let-7c | Myelodysplastic Syndromes |  |
| hsa-mir-146a | Breast Neoplasms | × |
| hsa-mir-21 | Pancreatic Neoplasms | × |
| hsa-mir-378b | Prostatic Neoplasms | × |
| hsa-mir-302a | Breast Neoplasms | × |
| hsa-mir-200a | Stomach Neoplasms | × |
| hsa-mir-632 | Breast Neoplasms | × |
| hsa-mir-520c | Endometriosis |  |