**Table S4.** MiFam-based family

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| **Family name** | **miRNA** |
| let-7 | tca-let-7-5p\_R+1, tca-let-7-3p\_R-1 |
| mir-29 | dan-miR-285\_1ss21GT |
| mir-25 | tca-miR-92a-3p\_L+1R+1, aae-miR-92b-3p, tca-miR-92c-3p\_R-1 |
| mir-9 | bmo-miR-9a-5p\_R-2, bmo-miR-9a-3p |
| mir-8 | tca-miR-8-5p, tca-miR-8-3p |
| mir-124 | aga-mir-124-p3\_1ss14AT, aae-miR-124\_R+2 |
| mir-7 | tca-miR-7-5p\_R-1, aae-miR-7\_R+1, pxy-miR-7b\_R-3\_2ss17TA18CT |
| mir-133 | dpe-miR-133 |
| mir-10 | dme-miR-10-5p\_L+1R-1, dme-miR-10-3p, tca-miR-10-3p, der-miR-10\_L+1, tca-miR-993-5p\_L+1, tca-miR-993-3p, ame-miR-993-3p, dpu-miR-100\_R-1 |
| mir-1 | tca-miR-1-3p\_R-1\_1ss15GT, isc-miR-1 |
| mir-34 | tca-miR-34-5p\_R+1, tca-miR-34-3p\_R-2\_1ss18CT |
| mir-2 | dme-miR-2a-3p\_L-2R-1, ame-miR-2-3p\_L-2R-1, aga-miR-13b |
| mir-216 | ame-miR-283-5p\_R+2, tca-miR-283-5p\_R-2\_1ss9GT, tca-miR-283-5p\_R-1, tca-miR-3477-5p\_R-2 |
| mir-184 | tca-miR-184-5p\_L+1\_1ss15TA, tca-miR-184-3p\_R+1 |
| mir-31 | bmo-miR-31-5p\_L+1R+1\_1ss9AT, ame-miR-31a-5p\_L+1R-2 |
| mir-96 | isc-miR-96\_R-1 |
| mir-190 | tca-miR-190-5p\_R+2, tca-miR-190-3p\_R+4 |
| mir-193 | hme-miR-193-3p\_R+1\_1ss11CT |
| mir-210 | tca-miR-210-5p\_R+1, tca-miR-210-3p\_L+1R-1 |
| mir-46 | bmo-miR-281-5p, bmo-miR-281-3p\_L-1R+1, tca-miR-281-5p, pxy-miR-281\_L+1R-1 |
| mir-137 | tca-miR-137-5p\_R-2, tca-miR-137-3p\_R+1 |
| mir-375 | tca-miR-375-3p\_R-2\_1ss17GA |
| mir-263 | bmo-miR-263a-5p\_1ss10GA, tca-miR-263a-5p\_R-5\_1ss10GA |
| mir-276 | dgr-miR-276a-5p\_L-1R-1, dgr-miR-276a-3p |
| mir-315 | aae-miR-315-5p |
| mir-317 | bmo-miR-317-3p\_L-2R+1 |
| mir-282 | aae-miR-282-5p\_L-4R-1 |
| mir-87 | tca-miR-87b-5p, tca-miR-87b-3p\_R-2 |
| mir-277 | tca-miR-277-3p\_R-3, aae-miR-277-3p\_R+1 |
| mir-305 | tca-miR-305-5p\_R+3, tca-miR-305-3p\_1ss21TC |
| mir-12 | tca-miR-12-5p\_R+2, aae-miR-12-5p\_R+2 |
| mir-14 | tca-miR-14-3p\_1ss15TA, api-miR-14 |
| mir-279 | dan-miR-279\_R-2, tca-miR-279d-3p\_R-2 |
| mir-275 | aga-miR-275\_R-1 |
| mir-11 | tca-miR-11-3p |
| mir-316 | ame-miR-316-5p\_R-1\_1ss21CG |
| mir-71 | tca-miR-71-5p, tca-miR-71-3p |
| mir-252 | tca-miR-252a-5p\_R+1, tca-miR-252a-3p |
| mir-67 | bmo-miR-307-3p\_R+1 |
| mir-929 | tca-miR-929-5p\_L+1R-1, aae-miR-929\_L+2R-2 |
| mir-927 | tca-miR-927a-5p\_R+2, tca-miR-927a-3p\_R-2 |
| mir-932 | tca-miR-932-5p, tca-miR-932-3p\_R+1 |
| mir-970 | aae-miR-970\_1ss20AG |
| mir-1000 | aae-miR-1000 |
| mir-981 | hme-miR-981 |
| mir-1175 | bmo-miR-1175-3p\_1ss24AG |
| mir-998 | bmo-miR-998\_R+2 |
| mir-2765 | tca-miR-2765-5p\_R+1, tca-miR-2765-3p\_L+1R-1\_1ss9CT |
| mir-2796 | tca-miR-2796-3p |
| mir-2788 | tca-miR-2788-5p, tca-miR-2788-3p\_R+3 |
| mir-2944 | tca-miR-2944c-5p\_L-1\_1ss10TC, tca-miR-2944c-3p\_R+1 |
| mir-6012 | ame-miR-6012-3p\_1ss10GA |
| mir-6497 | bmo-mir-6497-p5\_1ss8CA, bmo-mir-6497-p3\_1ss3AG, bmo-mir-6497-p5\_1ss18CT, bmo-miR-6497-5p\_L-3\_1ss11CT, bmo-mir-6497-p5\_1ss4AG, bmo-mir-6497-p3\_1ss12AG |
| mir-973 | dvi-miR-973-5p\_L-5R-3\_1ss20TC |