**Supplementary Table S3**.

Average BLASTn similarity scores for miRNA FASTA files. Note: Mir3580\* comprises one sequence in the FASTA file, indicating potential misalignment due to short length sequence length.

|  |  |
| --- | --- |
| **MiRNA family** | **Average sequence similarity scores** |
| Mir3580\* | 86.6667\* |
| Mir599 | 89.1689 |
| Mir3174 | 89.2856 |
| Mir1910 | 90.476 |
| Mir5626 | 90.476 |
| Mir2276 | 90.909 |
| Mir491 | 92.3759 |
| Mir1914 | 92.5927 |
| Mir216 | 92.7461 |
| Mir672 | 93.0556 |
| Mir17 | 93.0578 |
| Mir944 | 93.3335 |
| Mir2116 | 93.75 |
| Mir1912 | 93.8918 |
| Mir3073 | 93.9393 |
| Mir214 | 94.1022 |
| Mir8 | 94.1643 |
| Mir12092 | 94.2856 |
| Mir874 | 94.2856 |
| Mir1835 | 94.3722 |
| Mir7170 | 94.4443 |
| Mir1269 | 94.4445 |
| Mir149 | 94.4445 |
| Novel24 | 94.4445 |
| Mir483 | 94.4941 |
| Novel16 | 94.8101 |
| Mir10182 | 94.8413 |
| Mir2355 | 94.9301 |
| Mir2483 | 94.9951 |
| Mir3146 | 95 |
| Mir3619 | 95 |
| Mir7181 | 95 |
| Mir219 | 95.1401 |
| Mir760 | 95.238 |
| Mir1296 | 95.4545 |
| Mir1379 | 95.4545 |
| Mir1840 | 95.4761 |
| Mir1844 | 95.5 |
| Mir544 | 95.6412 |
| Mir7205 | 95.7516 |
| Mir130 | 95.809 |
| Mir7262 | 95.8109 |
| Mir2373 | 95.8332 |
| Mir651 | 95.8335 |
| Mir8859 | 95.8545 |
| Mir361 | 95.9877 |
| Mir541 | 96.0351 |
| Mir28 | 96.1129 |
| Mir204 | 96.1559 |
| Mir192 | 96.1611 |
| Mir1388 | 96.2346 |
| Mir34 | 96.2725 |
| Mir193 | 96.2748 |
| Mir506 | 96.2831 |
| Mir1198 | 96.2963 |
| Mir2331 | 96.2963 |
| Mir331 | 96.2963 |
| Mir3909 | 96.2963 |
| Mir181 | 96.3724 |
| Mir1307 | 96.4285 |
| Mir674 | 96.4285 |
| Mir196 | 96.4371 |
| Mir3944 | 96.4706 |
| Mir7371 | 96.49 |
| Mir374 | 96.5183 |
| Mir430 | 96.5277 |
| Mir135 | 96.6063 |
| Mir330 | 96.6734 |
| Mir875 | 96.6941 |
| Mir2387 | 96.7653 |
| Mir3956 | 96.875 |
| Mir132 | 96.9368 |
| Mir676 | 96.9866 |
| Mir148 | 96.9958 |
| Mir488 | 97.0001 |
| Mir615 | 97.0597 |
| Mir551 | 97.0609 |
| Mir670 | 97.0624 |
| Mir23 | 97.0908 |
| Novel12 | 97.1895 |
| Mir3099 | 97.222 |
| Mir15 | 97.2222 |
| Mir12076 | 97.2223 |
| Mir95 | 97.2663 |
| Mir10 | 97.4443 |
| Mir345 | 97.4443 |
| Mir376 | 97.4621 |
| Mir26 | 97.4736 |
| Mir876 | 97.5308 |
| Mir154 | 97.576 |
| Mir887 | 97.5806 |
| Mir675 | 97.5907 |
| Novel11 | 97.6019 |
| Mir2467 | 97.619 |
| Mir4664 | 97.619 |
| Mir590 | 97.6468 |
| Mir2114 | 97.6804 |
| Mir489 | 97.7064 |
| Mir188 | 97.7445 |
| Mir873 | 97.7863 |
| Mir362 | 97.83 |
| Mir337 | 97.8512 |
| Novel7 | 97.8663 |
| Let7 | 97.8957 |
| Mir1329 | 97.9056 |
| Mir150 | 97.9345 |
| Novel15 | 97.9515 |
| Mir2388 | 97.9591 |
| Mir7 | 98.0269 |
| Mir32 | 98.0445 |
| Mir105 | 98.0732 |
| Mir6715 | 98.1587 |
| Mir92 | 98.2043 |
| Mir624 | 98.2142 |
| Novel2 | 98.2368 |
| Mir96 | 98.2457 |
| Mir208 | 98.2517 |
| Mir666 | 98.2576 |
| Mir155 | 98.2642 |
| Mir3934 | 98.2759 |
| Mir605 | 98.3266 |
| Mir579 | 98.3332 |
| Mir459 | 98.3473 |
| Novel8 | 98.3479 |
| Mir340 | 98.3528 |
| Mir1343 | 98.3655 |
| Mir325 | 98.3752 |
| Mir4731 | 98.4127 |
| Mir2285 | 98.428 |
| Mir653 | 98.4547 |
| Mir33 | 98.4617 |
| Mir3068 | 98.4674 |
| Mir29 | 98.4806 |
| Mir2461 | 98.4848 |
| Mir1271 | 98.4977 |
| Novel9 | 98.5193 |
| Mir137 | 98.539 |
| Mir8908 | 98.5549 |
| Mir338 | 98.6071 |
| Mir3112 | 98.611 |
| Mir1955 | 98.6111 |
| Mir4524 | 98.6111 |
| Mir7189 | 98.6111 |
| Novel5 | 98.6225 |
| Mir490 | 98.6462 |
| Mir493 | 98.6737 |
| Mir769 | 98.6772 |
| Mir30 | 98.7035 |
| Mir1 | 98.7065 |
| Novel6 | 98.7143 |
| Mir431 | 98.7588 |
| Mir296 | 98.761 |
| Mir7180 | 98.7923 |
| Mir505 | 98.7967 |
| Mir448 | 98.8456 |
| Mir770 | 98.8516 |
| Novel1 | 98.8519 |
| Mir499 | 98.9076 |
| Mir1911 | 98.9115 |
| Mir147 | 98.9202 |
| Mir582 | 98.968 |
| Mir383 | 98.9852 |
| Mir139 | 98.9865 |
| Mir598 | 99.0284 |
| Mir101 | 99.0828 |
| Mir1842 | 99.0906 |
| Mir1247 | 99.0993 |
| Mir1298 | 99.1071 |
| Mir129 | 99.1271 |
| Novel3 | 99.1297 |
| Mir3085 | 99.1629 |
| Mir218 | 99.173 |
| Mir19 | 99.1874 |
| Mir9 | 99.1939 |
| Mir146 | 99.1968 |
| Mir184 | 99.211 |
| Mir455 | 99.211 |
| Novel4 | 99.2196 |
| Mir346 | 99.2585 |
| Mir433 | 99.2669 |
| Mir9851 | 99.2671 |
| Mir4766 | 99.2857 |
| Novel10 | 99.2857 |
| Mir190 | 99.2914 |
| Mir511 | 99.4223 |
| Mir1301 | 99.4403 |
| Mir1251 | 99.4578 |
| Mir31 | 99.5654 |
| Mir320 | 99.567 |
| Mir144 | 99.5678 |
| Mir504 | 99.5689 |
| Mir126 | 99.6201 |
| Mir486 | 99.6215 |
| Mir700 | 99.6552 |
| Mir197 | 99.6971 |
| Mir671 | 99.7414 |
| Mir450 | 99.752 |
| Mir221 | 99.7668 |
| Mir138 | 99.7739 |
| Mir133 | 99.7808 |
| Mir217 | 99.8024 |
| Mir350 | 99.8056 |
| Mir103 | 100 |
| Mir1180 | 100 |
| Mir11968 | 100 |
| Mir11989 | 100 |
| Mir11995 | 100 |
| Mir12072 | 100 |
| Mir12073 | 100 |
| Mir12074 | 100 |
| Mir12078 | 100 |
| Mir12079 | 100 |
| Mir12080 | 100 |
| Mir12081 | 100 |
| Mir12082 | 100 |
| Mir12083 | 100 |
| Mir12084 | 100 |
| Mir12085 | 100 |
| Mir12086 | 100 |
| Mir12087 | 100 |
| Mir12090 | 100 |
| Mir12091 | 100 |
| Mir12093 | 100 |
| Mir12094 | 100 |
| Mir12095 | 100 |
| Mir122 | 100 |
| Mir1249 | 100 |
| Mir124 | 100 |
| Mir1252 | 100 |
| Mir1266 | 100 |
| Mir1270 | 100 |
| Mir1276 | 100 |
| Mir1277 | 100 |
| Mir1278 | 100 |
| Mir127 | 100 |
| Mir1286 | 100 |
| Mir1287 | 100 |
| Mir128 | 100 |
| Mir1294 | 100 |
| Mir1295 | 100 |
| Mir1306 | 100 |
| Mir1323 | 100 |
| Mir134 | 100 |
| Mir136 | 100 |
| Mir140 | 100 |
| Mir142 | 100 |
| Mir143 | 100 |
| Mir145 | 100 |
| Mir153 | 100 |
| Mir1838 | 100 |
| Mir185 | 100 |
| Mir186 | 100 |
| Mir187 | 100 |
| Mir1908 | 100 |
| Mir1913 | 100 |
| Mir191 | 100 |
| Mir1929 | 100 |
| Mir1930 | 100 |
| Mir1933 | 100 |
| Mir1934 | 100 |
| Mir1941 | 100 |
| Mir1943 | 100 |
| Mir1947 | 100 |
| Mir1948 | 100 |
| Mir194 | 100 |
| Mir1953 | 100 |
| Mir1958 | 100 |
| Mir1960 | 100 |
| Mir1962 | 100 |
| Mir1964 | 100 |
| Mir199 | 100 |
| Mir202 | 100 |
| Mir203 | 100 |
| Mir205 | 100 |
| Mir210 | 100 |
| Mir2115 | 100 |
| Mir21 | 100 |
| Mir223 | 100 |
| Mir224 | 100 |
| Mir2299 | 100 |
| Mir22 | 100 |
| Mir2313 | 100 |
| Mir2320 | 100 |
| Mir2328 | 100 |
| Mir2330 | 100 |
| Mir2336 | 100 |
| Mir2367 | 100 |
| Mir2382 | 100 |
| Mir2408 | 100 |
| Mir2468 | 100 |
| Mir2471 | 100 |
| Mir2475 | 100 |
| Mir24 | 100 |
| Mir27 | 100 |
| Mir298 | 100 |
| Mir3057 | 100 |
| Mir3058 | 100 |
| Mir3059 | 100 |
| Mir3060 | 100 |
| Mir3061 | 100 |
| Mir3066 | 100 |
| Mir3067 | 100 |
| Mir3072 | 100 |
| Mir3075 | 100 |
| Mir3079 | 100 |
| Mir3080 | 100 |
| Mir3081 | 100 |
| Mir3086 | 100 |
| Mir3090 | 100 |
| Mir3091 | 100 |
| Mir3092 | 100 |
| Mir3093 | 100 |
| Mir3095 | 100 |
| Mir3098 | 100 |
| Mir3101 | 100 |
| Mir3105 | 100 |
| Mir3109 | 100 |
| Mir3110 | 100 |
| Mir3126 | 100 |
| Mir3127 | 100 |
| Mir3136 | 100 |
| Mir3138 | 100 |
| Mir3140 | 100 |
| Mir3144 | 100 |
| Mir3145 | 100 |
| Mir3173 | 100 |
| Mir3180 | 100 |
| Mir3187 | 100 |
| Mir3194 | 100 |
| Mir3200 | 100 |
| Mir324 | 100 |
| Mir326 | 100 |
| Mir328 | 100 |
| Mir335 | 100 |
| Mir339 | 100 |
| Mir342 | 100 |
| Mir3431 | 100 |
| Mir3432 | 100 |
| Mir351 | 100 |
| Mir3558 | 100 |
| Mir3559 | 100 |
| Mir3593 | 100 |
| Mir3611 | 100 |
| Mir3613 | 100 |
| Mir3617 | 100 |
| Mir3622 | 100 |
| Mir3660 | 100 |
| Mir3663 | 100 |
| Mir3690 | 100 |
| Mir370 | 100 |
| Mir375 | 100 |
| Mir378 | 100 |
| Mir384 | 100 |
| Mir3924 | 100 |
| Mir3942 | 100 |
| Mir3957 | 100 |
| Mir423 | 100 |
| Mir425 | 100 |
| Mir432 | 100 |
| Mir4424 | 100 |
| Mir451 | 100 |
| Mir452 | 100 |
| Mir4637 | 100 |
| Mir4661 | 100 |
| Mir4662 | 100 |
| Mir4677 | 100 |
| Mir498 | 100 |
| Mir540 | 100 |
| Mir542 | 100 |
| Mir550 | 100 |
| Mir552 | 100 |
| Mir556 | 100 |
| Mir5579 | 100 |
| Mir5581 | 100 |
| Mir5586 | 100 |
| Mir561 | 100 |
| Mir5621 | 100 |
| Mir5683 | 100 |
| Mir5687 | 100 |
| Mir574 | 100 |
| Mir576 | 100 |
| Mir577 | 100 |
| Mir580 | 100 |
| Mir584 | 100 |
| Mir585 | 100 |
| Mir589 | 100 |
| Mir592 | 100 |
| Mir6119 | 100 |
| Mir616 | 100 |
| Mir628 | 100 |
| Mir629 | 100 |
| Mir6324 | 100 |
| Mir6329 | 100 |
| Mir642 | 100 |
| Mir6525 | 100 |
| Mir6529 | 100 |
| Mir652 | 100 |
| Mir667 | 100 |
| Mir673 | 100 |
| Mir701 | 100 |
| Mir7151 | 100 |
| Mir7172 | 100 |
| Mir7174 | 100 |
| Mir7179 | 100 |
| Mir7184 | 100 |
| Mir7208 | 100 |
| Mir7211 | 100 |
| Mir7220 | 100 |
| Mir7281 | 100 |
| Mir7319 | 100 |
| Mir744 | 100 |
| Mir7647 | 100 |
| Mir766 | 100 |
| Mir7854 | 100 |
| Mir7858 | 100 |
| Mir7859 | 100 |
| Mir7861 | 100 |
| Mir7862 | 100 |
| Mir872 | 100 |
| Mir877 | 100 |
| Mir879 | 100 |
| Mir885 | 100 |
| Mir8902 | 100 |
| Mir934 | 100 |
| Mir935 | 100 |
| Novel13 | 100 |
| Novel14 | 100 |
| Novel17 | 100 |
| Novel18 | 100 |
| Novel21 | 100 |
| Novel22 | 100 |
| Novel23 | 100 |