

Supplementary Table 8.

List of the top 50 motifs (4-mers) found to be discriminating between immunoprecipitated miRNAs and remaining miRNAs by Fisher's exact test on the number of sequences with and without the motif in immunoprecipitated and remaining miRNAs.

| | motif | Fisher p-value | % of IPed miRNAs with motif | % of remaining miRNAs with motif | % of all miRNAs with motif | ratio (IPed/remaining) | difference (IPed-remaining) |
|----|--------------|-----------------------|------------------------------------|---|-----------------------------------|-------------------------------|------------------------------------|
| 1 | AABR | 2.60E-07 | 41.80% | 25.70% | 27.20% | 1.629 | 16.2 |
| 2 | AAGV | 6.92E-07 | 32.20% | 18.00% | 19.30% | 1.789 | 14.2 |
| 3 | AAND | 9.30E-07 | 57.30% | 40.70% | 42.30% | 1.408 | 16.6 |
| 4 | AANR | 1.14E-06 | 47.70% | 31.70% | 33.20% | 1.505 | 16 |
| 5 | AARR | 1.05E-06 | 35.10% | 20.70% | 22.00% | 1.699 | 14.5 |
| 6 | AASR | 6.22E-07 | 33.10% | 18.70% | 20.00% | 1.772 | 14.4 |
| 7 | AASV | 8.11E-07 | 42.70% | 27.00% | 28.50% | 1.581 | 15.7 |
| 8 | AAVR | 3.69E-07 | 41.40% | 25.50% | 27.00% | 1.623 | 15.9 |
| 9 | ABAA | 1.54E-07 | 26.40% | 12.90% | 14.20% | 2.042 | 13.4 |
| 10 | ABAH | 8.79E-07 | 50.60% | 34.30% | 35.80% | 1.477 | 16.3 |
| 11 | ABAW | 2.24E-07 | 41.80% | 25.50% | 27.00% | 1.642 | 16.4 |
| 12 | ABDA | 5.43E-12 | 59.00% | 35.70% | 37.90% | 1.652 | 23.3 |
| 13 | ABDM | 8.22E-08 | 77.80% | 60.70% | 62.30% | 1.283 | 17.2 |
| 14 | ABGA | 1.47E-09 | 34.30% | 17.00% | 18.60% | 2.017 | 17.3 |
| 15 | ABGM | 1.01E-08 | 49.40% | 30.50% | 32.30% | 1.617 | 18.8 |
| 16 | ABNA | 1.65E-10 | 67.80% | 46.20% | 48.20% | 1.469 | 21.6 |
| 17 | ABNW | 4.41E-08 | 89.50% | 74.70% | 76.00% | 1.199 | 14.9 |
| 18 | ABRA | 1.28E-14 | 51.90% | 26.90% | 29.20% | 1.929 | 25 |
| 19 | ABRH | 8.98E-09 | 79.50% | 61.20% | 62.90% | 1.298 | 18.3 |
| 20 | ABRM | 4.04E-11 | 68.60% | 46.30% | 48.40% | 1.482 | 22.3 |
| 21 | ABRN | 9.59E-07 | 88.30% | 74.80% | 76.00% | 1.181 | 13.5 |
| 22 | ABRW | 6.37E-08 | 66.50% | 48.20% | 49.90% | 1.381 | 18.3 |
| 23 | ABSA | 1.07E-06 | 47.30% | 31.30% | 32.80% | 1.51 | 16 |
| 24 | ABVA | 7.75E-12 | 62.30% | 39.20% | 41.40% | 1.59 | 23.1 |
| 25 | ABVM | 9.51E-08 | 80.80% | 64.10% | 65.70% | 1.259 | 16.6 |
| 26 | ABVW | 2.68E-08 | 82.80% | 65.80% | 67.40% | 1.259 | 17 |
| 27 | ADAA | 6.96E-09 | 29.70% | 14.20% | 15.70% | 2.085 | 15.5 |
| 28 | ADAH | 1.97E-07 | 51.90% | 34.50% | 36.10% | 1.504 | 17.4 |
| 29 | ADAM | 1.35E-07 | 41.80% | 25.20% | 26.80% | 1.659 | 16.6 |
| 30 | ADAR | 2.40E-07 | 44.80% | 28.20% | 29.70% | 1.588 | 16.6 |
| 31 | ADAV | 9.14E-07 | 54.00% | 37.40% | 38.90% | 1.443 | 16.6 |
| 32 | ADAW | 2.03E-07 | 41.40% | 25.10% | 26.70% | 1.648 | 16.3 |

| | | | | | | | |
|----|------|----------|--------|--------|--------|-------|------|
| 33 | ADDA | 4.00E-12 | 59.40% | 36.10% | 38.30% | 1.646 | 23.3 |
| 34 | ADDM | 1.66E-07 | 77.80% | 61.10% | 62.60% | 1.275 | 16.8 |
| 35 | ADGA | 2.35E-10 | 39.30% | 20.30% | 22.10% | 1.938 | 19 |
| 36 | ADGM | 7.47E-10 | 56.90% | 36.10% | 38.10% | 1.575 | 20.8 |
| 37 | ADNA | 2.60E-10 | 66.90% | 45.60% | 47.60% | 1.47 | 21.4 |
| 38 | ADRA | 3.17E-15 | 55.60% | 29.60% | 32.10% | 1.879 | 26 |
| 39 | ADRM | 1.58E-11 | 72.80% | 50.30% | 52.40% | 1.447 | 22.5 |
| 40 | ADRR | 5.76E-08 | 70.70% | 52.50% | 54.20% | 1.346 | 18.2 |
| 41 | ADSA | 2.02E-09 | 52.70% | 32.70% | 34.60% | 1.611 | 20 |
| 42 | ADSM | 3.11E-08 | 73.60% | 55.30% | 57.00% | 1.331 | 18.3 |
| 43 | ADVA | 1.10E-12 | 64.40% | 40.20% | 42.50% | 1.603 | 24.2 |
| 44 | ADVМ | 1.55E-09 | 83.30% | 64.60% | 66.40% | 1.288 | 18.6 |
| 45 | ADVR | 4.39E-07 | 78.20% | 62.10% | 63.60% | 1.26 | 16.2 |
| 46 | ADVW | 1.76E-07 | 81.20% | 64.90% | 66.50% | 1.25 | 16.2 |
| 47 | ADWA | 2.44E-07 | 38.10% | 22.30% | 23.80% | 1.706 | 15.8 |
| 48 | AGAA | 5.19E-07 | 17.60% | 7.10% | 8.10% | 2.482 | 10.5 |
| 49 | AGAH | 4.17E-08 | 34.70% | 18.80% | 20.30% | 1.849 | 15.9 |
| 50 | AGAM | 2.32E-07 | 26.80% | 13.40% | 14.60% | 2.001 | 13.4 |