

**TABLE S8: Adult Female Body vs. Ovary biased miRNAs**

**Female Body (female somatic tissues) biased:**

chrom	miRNA	Female Body reads	Ovary reads	BF/BF+Ov	BF/BF+Ov	Sum Reads	% miRNA
chr3R	dme-mir-1000	206	0	1	0	<b>206</b>	0.016796842
chr3R	dme-mir-1001	29	0	1	0	<b>29</b>	0.002364604
chr2L	dme-mir-1004	13	0	1	0	<b>13</b>	0.001059995
chr3R	dme-mir-1014	66	0	1	0	<b>66</b>	0.005381513
chr3R	dme-mir-1015	15	0	1	0	<b>15</b>	0.001223071
chr2R	dme-mir-137	80	0	1	0	<b>80</b>	0.006523046
chrX	dme-mir-210	121	0	1	0	<b>121</b>	0.009866106
chr3L	dme-mir-219	21	0	1	0	<b>21</b>	0.001712299
chr3L	dme-mir-263b	263	0	1	0	<b>263</b>	0.021444512
chr3L	dme-mir-276b	112	0	1	0	<b>112</b>	0.009132264
chr2L	dme-mir-375	811	0	1	0	<b>811</b>	0.066127374
chr3L	dme-mir-957	307	0	1	0	<b>307</b>	0.025032187
chr3L	dme-mir-958	2103	0	1	0	<b>2103</b>	0.171474559
chrX	dme-mir-981	19	0	1	0	<b>19</b>	0.001549223
chr2R	dme-mir-987	308	0	1	0	<b>308</b>	0.025113725
chr3R	dme-mir-993	314	0	1	0	<b>314</b>	0.025602954
chr3R	dme-mir-iab-4as	28	0	1	0	<b>28</b>	0.002283066
chr2L	dme-mir-124	470	2	0.99590	0.00410	<b>472</b>	0.038480513
chr2L	dme-mir-133	300	2	0.99360	0.00640	<b>302</b>	0.024619041
chr3L	dme-mir-314	4449	31	0.99310	0.00690	<b>4480</b>	0.365284793
chr3L	dme-mir-274	1179	10	0.99187	0.00813	<b>1189</b>	0.096921485
chr3R	dme-mir-277	19989	168	0.99166	0.00834	<b>20157</b>	1.643577423
chr3L	dme-mir-9a	8813	77	0.99130	0.00870	<b>8890</b>	0.724899812
chr3L	dme-mir-956	1393	17	0.98766	0.01234	<b>1410</b>	0.115001112
chr3R	dme-mir-10	6256	79	0.98749	0.01251	<b>6335</b>	0.51656459
chr2L	dme-mir-1	199357	2994	0.98520	0.01480	<b>202351</b>	16.4993386
chr3R	dme-mir-929	819	23	0.97246	0.02754	<b>842</b>	0.068671122
chr3R	dme-mir-252	1420	41	0.97221	0.02779	<b>1461</b>	0.119094084
chr3R	dme-mir-13a	202	10	0.95434	0.04566	<b>212</b>	0.017258791
chr2R	dme-mir-1008	36	2	0.94904	0.05096	<b>38</b>	0.003092991
chr2L	dme-mir-932	70	4	0.94766	0.05234	<b>74</b>	0.006022905
chr3R	dme-mir-iab-4	35	2	0.94766	0.05234	<b>37</b>	0.003011453
chr3L	dme-mir-276	37412	2525	0.93678	0.06322	<b>39937</b>	3.256354306
chr3L	dme-mir-955	26	2	0.93080	0.06920	<b>28</b>	0.00227761
chr2L	dme-mir-1006	101	8	0.92889	0.07111	<b>109</b>	0.008865826
chr3R	dme-mir-1013	24	2	0.92546	0.07454	<b>26</b>	0.002114534
chr3L	dme-mir-276a	31855	2710	0.92159	0.07841	<b>34565</b>	2.818378803
chr2R	dme-mir-278	2040	226	0.90020	0.09980	<b>2266</b>	0.184779232
chrX	dme-mir-980	908	106	0.89518	0.10482	<b>1014</b>	0.082705681
chr2R	dme-mir-31a	11038	1703	0.86633	0.13367	<b>12741</b>	1.038880662
chr3R	dme-mir-1010	92	15	0.85610	0.14390	<b>107</b>	0.008762464
chr3R	dme-mir-999	771	141	0.84529	0.15471	<b>912</b>	0.074372131
chr2R	dme-mir-281-1	5351	1009	0.84134	0.15866	<b>6360</b>	0.518587988
chr3R	dme-mir-2c	10	2	0.83801	0.16199	<b>12</b>	0.000973001

chr2R	dme-mir-281-2	1730	340	0.83566	0.16434	<b>2070</b>	0.168802027
chr2L	dme-mir-100	366	73	0.83285	0.16715	<b>439</b>	0.035832503
chr3L	dme-mir-190	169	35	0.82926	0.17074	<b>204</b>	0.016617099
chr2L	dme-mir-87	535	110	0.82922	0.17078	<b>645</b>	0.052607222
chr2L	dme-let-7	8023	1722	0.82326	0.17674	<b>9745</b>	0.794619587
chr2R	dme-mir-8	191101	44755	0.81024	0.18976	<b>235856</b>	19.23123099
chr2L	dme-mir-125	1718	485	0.77977	0.22023	<b>2203</b>	0.17964509
chr3R	dme-mir-279	4143	1208	0.77422	0.22578	<b>5351</b>	0.436324888
chr3L	dme-mir-316	1713	644	0.72686	0.27314	<b>2357</b>	0.192162262
chr3R	dme-mir-284	116	44	0.72292	0.27708	<b>160</b>	0.013083682

#### Ovary enriched miRNAs:

chrom	miRNA	Female Body reads	Ovary reads	BF/BF+Ov	Ov/BF+Ov	Sum Reads	% miRNA
chr3R	dme-mir-318	76	34886	0.00217	0.99783	<b>34962</b>	2.850769902
chrX	dme-mir-984	7	1378	0.00505	0.99495	<b>1385</b>	0.112954019
chr3R	dme-mir-994	76	14463	0.00523	0.99477	<b>14539</b>	1.185511752
chr2R	dme-mir-313	8	1216	0.00654	0.99346	<b>1224</b>	0.099795454
chrX	dme-mir-303	1	128	0.00778	0.99222	<b>129</b>	0.010484476
chrX	dme-mir-983	7	798	0.00869	0.99131	<b>805</b>	0.065667938
chr2R	dme-mir-312	40	2803	0.01407	0.98593	<b>2843</b>	0.231810914
chr2R	dme-mir-1009	3	174	0.01695	0.98305	<b>177</b>	0.014430438
chr2R	dme-mir-311	13	460	0.02748	0.97252	<b>473</b>	0.038573619
chrX	dme-mir-982	3	89	0.03264	0.96736	<b>92</b>	0.007495147
chr2R	dme-mir-310	9	228	0.03796	0.96204	<b>237</b>	0.019333034
chr2L	dme-mir-275	763	12586	0.05716	0.94284	<b>13349</b>	1.088479123
chr3R	dme-mir-92b	68	990	0.06429	0.93571	<b>1058</b>	0.086246167
chr3R	dme-mir-92a	169	1514	0.10044	0.89956	<b>1683</b>	0.137196605
chr3R	dme-mir-995	459	3679	0.11093	0.88907	<b>4138</b>	0.337377347
chr2L	dme-mir-966	6	41	0.12877	0.87123	<b>47</b>	0.003799254
chr2R	dme-mir-989	13128	88414	0.12929	0.87071	<b>101542</b>	8.279510048
chr2L	dme-mir-9b	1608	10570	0.13204	0.86796	<b>12178</b>	0.99298085
chr2L	dme-mir-2a-1	22	118	0.15723	0.84277	<b>140</b>	0.011408674
chr2L	dme-mir-306	499	1954	0.20340	0.79660	<b>2453</b>	0.200041589
chr2R	dme-mir-184	7879	30821	0.20359	0.79641	<b>38700</b>	3.155536026
chr4	dme-mir-954	11	43	0.20550	0.79450	<b>54</b>	0.004364565
chr3R	dme-mir-996	8051	28482	0.22038	0.77962	<b>36533</b>	2.978840048
chrX	dme-mir-13b-2	55	172	0.24224	0.75776	<b>227</b>	0.018512798
chr2L	dme-mir-79	2196	6723	0.24621	0.75379	<b>8919</b>	0.727260898
chr2L	dme-mir-2b-2	319	862	0.27007	0.72993	<b>1181</b>	0.096309284
chr2L	dme-mir-959	3	8	0.27953	0.72047	<b>11</b>	0.000875095
chr2R	dme-mir-7	928	2356	0.28254	0.71746	<b>3284</b>	0.267806437
chr3L	dme-mir-33	1974	4025	0.32907	0.67093	<b>5999</b>	0.48912155
chr3R	dme-mir-34	3245	6344	0.33839	0.66161	<b>9589</b>	0.781900759

At least 10 normalized reads in summed normalized reads were required. A ratio (BodyF/BodyF+Ovary)  $\geq 0.66$  is female body biased and a ratio (Ovary/Body M+Ovary)  $\geq 0.66$  is ovary biased. BF: Body Female; Ov: Ovary.