

miRNA	Family	Seed	Cluster	Chromosome	Start	End	Strand
<i>lin-4</i>	<i>lin-4</i>	CCCUGA	3	II	5902220	5902313	+
<i>miR-237</i>	<i>lin-4</i>	CCCUGA	3	X	8154027	8154125	+
<i>let-7</i>	<i>let-7</i>	GAGGUA	3	X	14744094	14744192	-
<i>miR-48</i>	<i>let-7</i>	GAGGUA	3	V	14364390	14364487	-
<i>miR-241</i>	<i>let-7</i>	GAGGUA	3	V	14366166	14366261	-
<i>miR-35</i>	<i>miR-35</i>	CACCGG	2	II	11537524	11537620	+
<i>miR-36</i>	<i>miR-35</i>	CACCGG	2	II	11537629	11537725	+
<i>miR-37</i>	<i>miR-35</i>	CACCGG	2	II	11537749	11537846	+
<i>miR-38</i>	<i>miR-35</i>	CACCGG	2	II	11537846	11537943	+
<i>miR-39</i>	<i>miR-35</i>	CACCGG	2	II	11538005	11538091	+
<i>miR-40</i>	<i>miR-35</i>	CACCGG	2	II	11538100	11538191	+
<i>miR-42</i>	<i>miR-35</i>	CACCGG	1	II	11889727	11889821	+
<i>miR-46</i>	<i>miR-46</i>	GUCAUG	3	III	13660395	13660491	+
<i>miR-47</i>	<i>miR-46</i>	GUCAUG	3	X	13921173	13921269	+
<i>miR-49</i>	<i>miR-49</i>	AGCACC	1	X	9989216	9989312	+
<i>miR-83</i>	<i>miR-49</i>	AGCACC	3	IV	7841614	7841711	+
<i>miR-50</i>	<i>miR-50</i>	GAUAUG	1	I	1738636	1738734	+
<i>miR-90</i>	<i>miR-50</i>	GAUAUG	1	III	8873894	8873991	-
<i>miR-51</i>	<i>miR-51</i>	ACCCGU	1	IV	11025983	11026082	-
<i>miR-52</i>	<i>miR-51</i>	ACCCGU	1	IV	14033976	14034075	+
<i>miR-53</i>	<i>miR-51</i>	ACCCGU	1	IV	11027563	11027661	-
<i>miR-54</i>	<i>miR-51</i>	ACCCGU	1	X	13144917	13145015	-
<i>miR-55</i>	<i>miR-51</i>	ACCCGU	1	X	13144748	13144845	-
<i>miR-56</i>	<i>miR-51</i>	ACCCGU	1	X	13144612	13144708	-
<i>miR-57</i>	<i>miR-57</i>	ACCCUG	1	II	7850429	7850527	-
<i>miR-58</i>	<i>miR-58</i>	GAGAUC	3	IV	3233250	3233346	+
<i>miR-80</i>	<i>miR-58</i>	GAGAUC	3	III	8865177	8865274	-
<i>miR-81</i>	<i>miR-58</i>	GAGAUC	3	X	2431067	2431174	+
<i>miR-82</i>	<i>miR-58</i>	GAGAUC	3	X	2435253	2435349	-
<i>miR-63</i>	<i>miR-63</i>	AUGACA	3	X	17598678	17598781	-
<i>miR-64</i>	<i>miR-63</i>	AUGACA	1	III	2172836	2172945	+
<i>miR-65</i>	<i>miR-63</i>	AUGACA	1	III	2172990	2173089	+
<i>miR-66</i>	<i>miR-63</i>	AUGACA	1	III	2173096	2173194	+
<i>miR-73</i>	<i>miR-72</i>	GGCAAG	1	X	2368759	2368857	+
<i>miR-74</i>	<i>miR-72</i>	GGCAAG	2	X	2369037	2369133	+

**Table S1. miRNAs with parallel AIN-2-association patterns tend to share the same seed sequence.** The table lists all the miRNAs that were detected in the AIN-2 IP and also share the same 6nt seed sequence with at least one other miRNA detected in the AIN-2 IP. Cluster indicates the cluster group of the miRNA in Figure 1A, which represents the temporal miRISC-association pattern of the miRNA during development. The residing chromosome number, the genomic start/end position and the coding DNA strand of each miRNA gene are also listed.