**Table 1**: Details of biggest miRNA cluster for chordate species.

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| --- | --- | --- | --- | --- | --- | --- |
| **Specie** | **Chr** | **Start** | **End** | **Size(Mb)** | **No.** | **miRNAs detail** |
| *B. floridae* | Bf\_V2\_118 | 216744 | 220351 | 3607 | 5 | bfl-mir-4869, bfl-mir-4857, bfl-mir-4862, bfl-mir-4856b, bfl-mir-4856a |
| *O. dioica* | scaffold\_3 | 2222857 | 2223714 | 857 | 6 | odi-mir-1497e, odi-mir-1497d-2, odi-mir-1497d-1, odi-mir-1497c, odi-mir-1497b, odi-mir-1497a |
| *B. schlosseri* | chrUn | 40003 | 41320 | 1317 | 2 | mir-233, mir-10 |
| *C. robusta* | 7 | 4153284 | 4156782 | 3498 | 23 | cin-mir-4006d, cin-mir-4006c, cin-mir-4001b-2, cin-mir-4000i, cin-mir-4006g, cin-mir-4001e, cin-mir-4001d, cin-mir-4000g, cin-mir-4006f, cin-mir-4006b, cin-mir-4001b-1, cin-mir-4000c, cin-mir-4006e, cin-mir-4000b-2, cin-mir-4001a-1, cin-mir-4000b-1, cin-mir-4002, cin-mir-4000d, cin-mir-4001h, cin-mir-4000a-2, cin-mir-4006a-2, cin-mir-4006a-3, cin-mir-4006a-1 |
| *C. savignyi* | reftig\_16 | 3924783 | 3925336 | 553 | 3 | csa-mir-216b, csa-mir-216a, csa-mir-217 |
| *C. savignyi* | reftig\_1 | 1335375 | 1336487 | 1112 | 3 | csa-mir-92b, csa-mir-92c, csa-mir-92a |
| *D. rerio* | 4 | 28738556 | 28754891 | 16335 | 60 | dre-mir-430a-18, dre-mir-430c-18, dre-mir-430b-4, dre-mir-430a-15, dre-mir-430c-18, dre-mir-430b-5, dre-mir-430a-10, dre-mir-430c-18, dre-mir-430b-5, dre-mir-430a-15, dre-mir-430c-18, dre-mir-430b-3, dre-mir-430a-10, dre-mir-430c-18, dre-mir-430b-8, dre-mir-430a-15, dre-mir-430c-18, dre-mir-430b-5, dre-mir-430a-17, miR-430, dre-mir-430b-20, dre-mir-430a-10, dre-mir-430c-18, dre-mir-430b-5, dre-mir-430i-3, dre-mir-430c-18, dre-mir-430b-3, dre-mir-430a-10, dre-mir-430c-18, dre-mir-430b-8, dre-mir-430a-11, dre-mir-430c-18, dre-mir-430b-5, dre-mir-430i-3, dre-mir-430c-18, dre-mir-430b-19, dre-mir-430a-10, dre-mir-430c-18, dre-mir-430b-5, dre-mir-430a-17, miR-430, dre-mir-430b-20, dre-mir-430a-10, dre-mir-430c-18, dre-mir-430b-5, dre-mir-430i-3, dre-mir-430c-18, dre-mir-430b-19, dre-mir-430a-10, dre-mir-430c-18, dre-mir-430b-5, dre-mir-430a-15, dre-mir-430c-18,dre-mir-430b-3, dre-mir-430a-10, dre-mir-430c-18, dre-mir-430b-8, dre-mir-430a-15, dre-mir-430c-18, dre-mir-430b-5 |
| *L. chalumnae* | JH126646.1 | 1529355 | 1882777 | 353422 | 7 | mir-233, mir-233, mir-233, mir-598, mir-672, MIR535, mir-233 |

Table 2: Reported clusters in the literature. Bold text represents those miRNAs elements that are currently annotated and validated, but could not be detected by homology strategies. **Ciro**: *C. robusta*, **Cisa**: *C. savignyi*and **Oidi**: *O. dioica.*

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Specie** | **Chr** | | **Start** | | **End** | **miRNAs** | **Comments** | **Source DB** | **Ref.** |
| Ciro | | 4q | | 2082260 | 2083286 | **cin-let-7a-1,** **cin-let-7f,** **cin-let-7b,** **cin-let-7c,** **cin-let-7a-2** | Reported on miRBAse and annotated on Ensembl | miRBase | (Hendrix et al., 2010), (Fu et al., 2008) |
| Cisa | | reftig\_41 | | 1114139 | 1117597 | **csa-let-7c-1,** **csa-let-7b,** **csa-let-7a,** **csa-let-7c-2** | Reported on miRBase and does not detected byhomology strategies. | miRBase | (Fu et al., 2008) |
| Ciro | | 10q | | 3226200 | 3228884 | **cin-mir-34**, cin-mir-4091, cin-mir-4008a, cin-mir-4008c, cin-mir-4008b, cin-mir-4054 | NA | miRBase, Homology | (Norden-Krichmar et al., 2007),  (Fu et al., 2008), (Hendrix et al., 2010),  (Terai et al., 2012) |
| Ciro | | 7q | | 4828431 | 4835967 | cin-mir-4077b, cin-mir-4003b, cin-mir-4005b, cin-mir-4077d, cin-mir-4003a-1, cin-mir-4003c, cin-mir-4077a, cin-mir-4003a-4, cin-mir-4003d | NA | miRBase, Homology | (Hendrix et al., 2010) |
| Ciro | | 3q | | 567478 | 571031 | cin-mir-4001f, cin-mir-4000e, cin-mir-4001c, cin-mir-1502d, cin-mir-4018a, cin-mir-4019, cin-mir-1502b, cin-mir-1502a, cin-mir-4007, cin-mir-4000f, cin-mir-4001i, cin-mir-4018b, cin-mir-1502c | Inclusion of cin-mir-4019 and cin-mir-4007 | miRBase, Homology | (Hendrix et al., 2010) |
| Ciro | | HT000037.1 | | 4884 | 5250 | **cin-mir-367**, **cin-mir-4009c**, **cin-mir-4009b**, cin-mir-367, cin-mir-4009c, cin-mir-4009a, cin-mir-4009b | Non-highlighted names could be found in the current genome atHT000037.1 scaffold | miRBase, Homology | (Hendrix et al., 2010) |
| Ciro | | 10q | | 3226200 | 3228884 | **cin-mir-34**, cin-mir-4091, cin-mir-4008a, cin-mir-4008c, cin-mir-4008b, cin-mir-4054 | NA | miRBase, Homology | (Hendrix et al., 2010) |
| Ciro | | 3q | | 884615 | 885508 | cin-mir-92a, cin-mir-92d, cin-mir-92c | NA | miRBase, Homology | (Hendrix et al., 2010) |
| Cisa | | reftig\_1 | | 1335375 | 1336487 | csa-mir-92b, csa-mir-92c, csa-mir-92a | NA | miRBase, Homology | (Fu et al., 2008) |
| Oidi | | scaffold\_1 | | 3086369 | 3086586 | odi-mir-92b, odi-mir-92a | NA | Homology | (Fu et al., 2008) |
| Ciro | | 7q | | 4969691 | 4969912 | cin-mir-124-1, cin-mir-124-2 | NA | miRBase, Homology | (Hendrix et al., 2010), (Fu et al., 2008) |
| Cisa | | reftig\_262 | | 49392 | 49620 | csa-mir-124-1, csa-mir-124-2 | NA | miRBase, Homology | (Fu et al., 2008) |
| Ciro | | HT000325.1 | | 8331 | 8778 | cin-mir-200, **cin-mir-3575**, cin-mir-141, **cin-mir-5611** | NA | miRBase, Homology | (Norden-Krichmar et al., 2007), (Fu et al., 2008), (Hendrix et al., 2010), (Friedländer et al., 2012) |
| Cisa | | reftig\_613 | | 31353 | 31949 | csa-mir-200, csa-mir-141 | NA | miRBase, Homology | (Fu et al., 2008) |
| Ciro | | 7q | | 4153284 | 4156782 | cin-mir-4006d, cin-mir-4006c, cin-mir-4001b-2, cin-mir-4000i, cin-mir-4006g, cin-mir-4001e, cin-mir-4001d, cin-mir-4000g, cin-mir-4006f, cin-mir-4000h\*, cin-mir-4006b, cin-mir-4001b-1, cin-mir-4006e, cin-mir-4001a-1, **cin-mir-4001a-2**, cin-mir-4002, cin-mir-4001h, cin-mir-4000a-2, cin-mir-4006a-2, cin-mir-4006a-3, cin-mir-4006a-1,**cin-mir-4006e**, **cin-mir-4001a-1**, **cin-mir-4006b**, cin-mir-4000c, **cin-mir-4006e**, cin-mir-4000b-2\*, **cin-mir-4001a-1**, cin-mir-4000b-1\*, **cin-mir-4001a-2**, **cin-mir-4002**, cin-mir-4000d\*, **cin-mir-4001h**, **cin-mir-4006a-3**, **cin-mir-4006a-1**, **cin-mir-4000a-1** | Elements marked with \*are identified by homology strategies at the same cluster, but inanother order reported by miRBase. | miRBase, Homology | (Hendrix et al., 2010) |