

**S3 Appendix.** Alignment of miR-71a/2a/2b/2e miRNA cluster fragment containing miR-2a, miR-2b and miR-2e.

sec. struc. – secondary structure. Mature miRNA sequences are in bold type and underlined.

Supplemental file 11: alignment of miR-71b/2f/2d/2c miRNA cluster fragments containing miR-71a, miR-2f and miR-2d

sec. struc. – second structure

Mature miRNA sequences including miR-2f are in bold type and underlined

**miR-71b**

miRNA name	sec. struc.	Sequence	Length
<i>C. sinensis</i>		TGAAAGACTTGAAGTAGTGAGACGCTCAT	53
<i>O. felineus</i>		TGAAAGACTTGAAGTAGTGAGACGCTCAT	53
<i>O. viverrini</i>		TGAAAGACTTGAAGTAGTGAGACGCTCAT	53
<i>S. japonicum</i>		TGAAAGACTTGAAGTAGTGAGACGCTCAT	59
<i>S. mansoni</i>		TGAAAGACTTGAAGTAGTGAGACGCTCAT	58

**miRNA name**  
**sec. struc.**  
*C. sinensis*  
*O. felineus*  
*O. viverrini*  
*S. japonicum*  
*S. mansoni*

**miR-2f**

miRNA name	sec. struc.	Sequence	Length
<i>C. sinensis</i>		GTCCGGTTGATTCTGGCTGAGATACCGCCTGGATTAGCTGCCAAGCCATTTC	167
<i>O. felineus</i>		GTCCGGTTGATTCTGGCTGAGATACCGCCTGGATTAGCTGCCAAGCCATTTC	167
<i>O. viverrini</i>		GTCCGGTTGATTCTGGCTGAGATACCGCCTGGATTAGCTGCCAAGCCATTTC	167
<i>S. japonicum</i>		ACCTGGTTGATTCTGGCTGAGATTGAGCCGGAA-----TAAA-GGTT-----TGCCTGTC	170
<i>S. mansoni</i>		ACCTGGTTGATTCTGGCTGAGATTGAGCCGGAA-----AATAAACAAATTGGTGCCTGTC	175

**miR-2f**

miRNA name	sec. struc.	Sequence	Length
<i>C. sinensis</i>		ACAGCCAATTGATGCCGACAGCATGCCACCTGACATCTAGCGTCTTTGGAAAGTGCC	227
<i>O. felineus</i>		ACAGCCAATTGATGCCGACAGCATGCCACCTGACATCTAGCGTTTTGGAAAGTACC	227
<i>O. viverrini</i>		ACAGCCAATTGATGCCGACAGCATGCCACCTGACATCTAGCGTTTTAGAAAGTACC	227
<i>S. japonicum</i>		ACAGCCAATTGATACCCGGTGTGGGCACCTAACCTCTA-----AGATGCCGC	220
<i>S. mansoni</i>		ACAGCCAATTGATACCCGGTGTGGGCACCTAACCTCTA-----AGATGTAAAC	225

**miR-2d**

miRNA name	sec. struc.	Sequence	Length
<i>C. sinensis</i>		AGCCACGGGTTTGTATCGATGGCCTGTCATT-----GAGCACATGTTCT-----AACT	278
<i>O. felineus</i>		AGCCACGGGTTTGTATCGGTGGCCTGTCATT-----GAGCACATGTTCT-----AACT	278
<i>O. viverrini</i>		AGCCACGGGTTTGTATCGATGGCCTGTCATT-----GAGCACATGTTCT-----AACT	278
<i>S. japonicum</i>		CGCACCAGGTTCTGTCATCCATGGATTGTCATTGCGACTCCATGTTCAATTAGTGAAT	280
<i>S. mansoni</i>		CGCACCAGGTTCTGTCATCCATTGGATTGTCATTGCGAAATAAAATTATGAATTGAAAT	285

**miR-2d**

miRNA name	sec. struc.	Sequence	Length
<i>C. sinensis</i>		ATCACAGTCCTGCTTAGGTGA	299
<i>O. felineus</i>		ATCACAGTCCTGCTTAGGTGA	299
<i>O. viverrini</i>		ATCACAGTCCTGCTTAGGTGA	299
<i>S. japonicum</i>		ATCACAGTCCTGCTTAGGTGA	301
<i>S. mansoni</i>		ATCACAGTCCTGCTTAGGTGA	306