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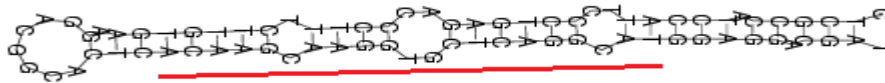
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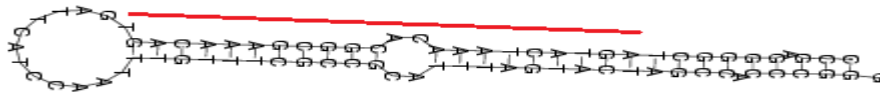
APPENDIX A

Predicted hairpin structures of novel miRNA candidate of G and H. The RNA secondary structures of pre-miRNA hairpins were drawn using RNAfold (Hofacker, 2009). Red line represents the mature miRNA position. Blue line represents the mature miRNA star position.

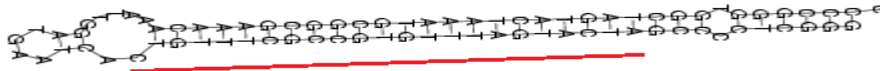
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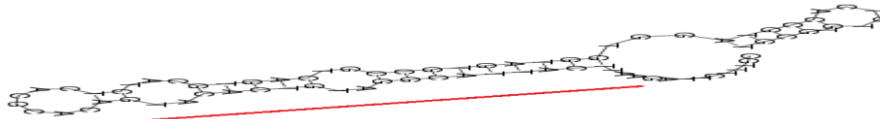
G-m0005



G-m0006



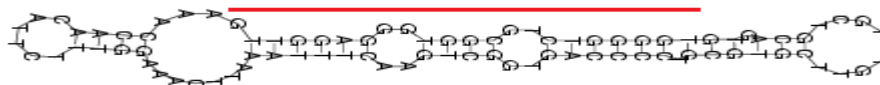
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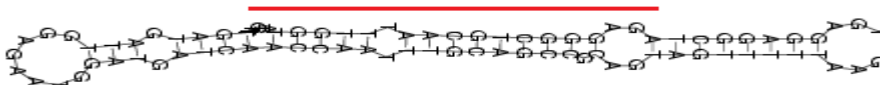
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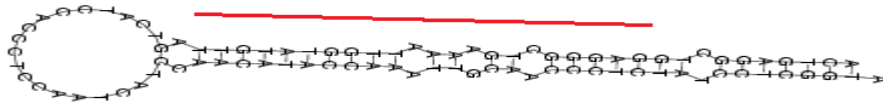
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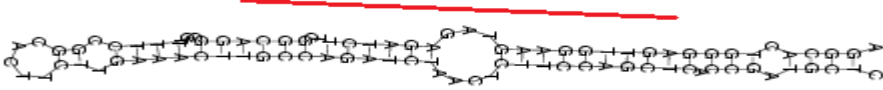
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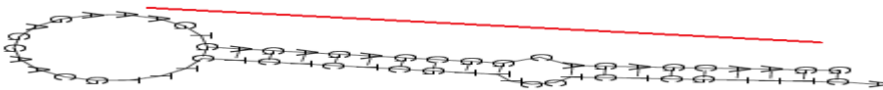
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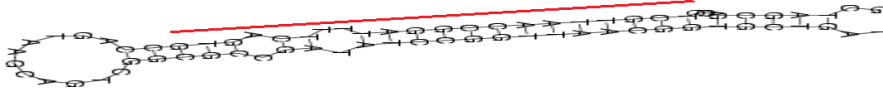
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G-m0015



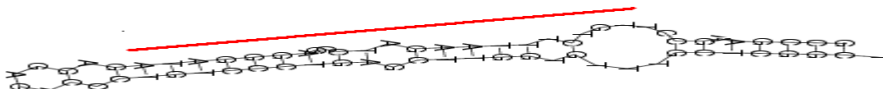
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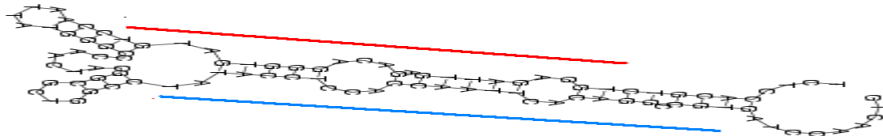
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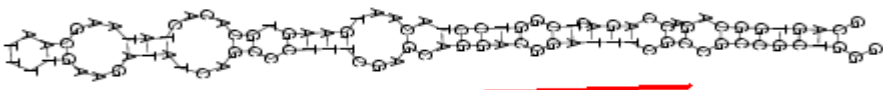
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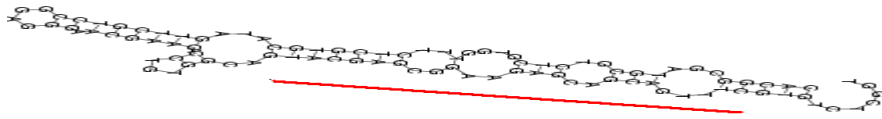
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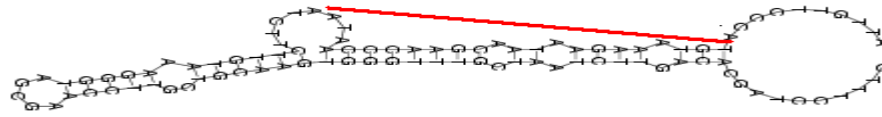
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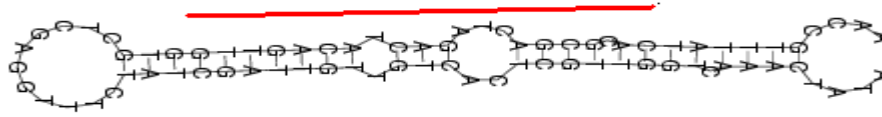
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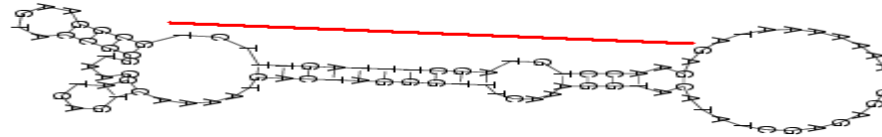
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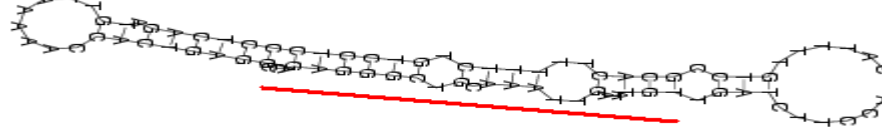
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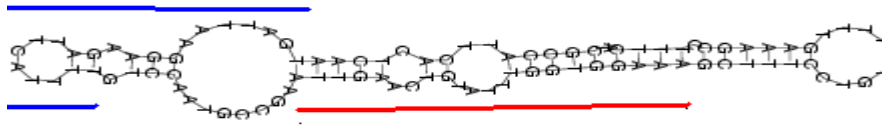
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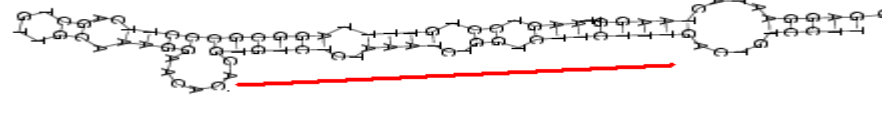
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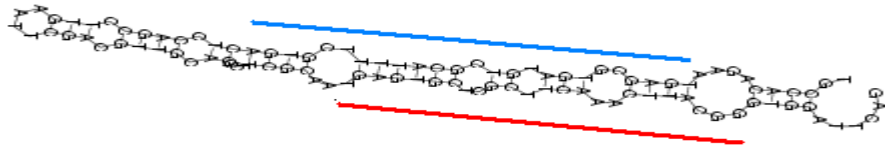
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H-m0034



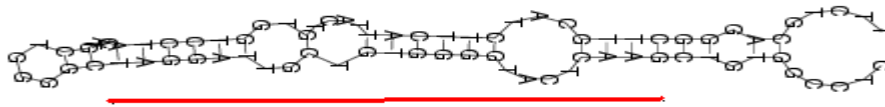
H-m0038



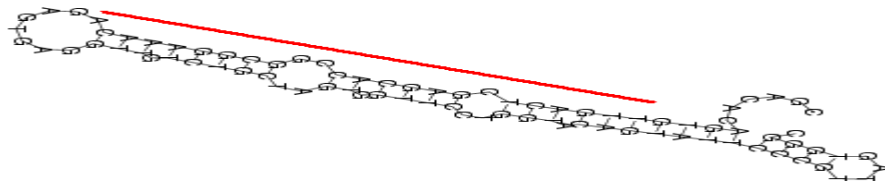
H-m0039



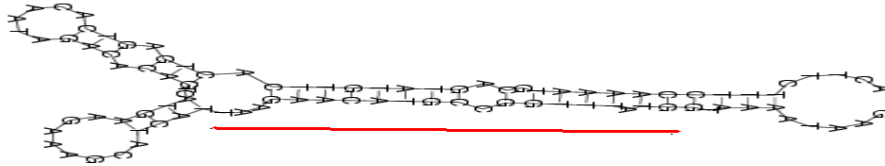
H-m0041



H-m0042



H-m0044



APPENDIX B

RESEARCH PUBLICATION OR CONFERENCE PROCEEDING

Tan, T. T., Mohd Shamsudin, M. I., Chen, M., Harikrishna, J. A., & Bhassu, S. (2010). Deep parallel sequencing reveals two conserved and 35 novel miRNAs in gill and hepatopancreas of *M.rosenbergii*. *Asian Regional Conference on System Biology (ARCSB)*, The Royale Chulan Hotel Kuala Lumpur, 29th November-1st December 2010. pp. 37.

Tan, T. T., Mohd Shamsudin, M. I., Chen, M., Harikrishna, J. A., Mohd Shamsudin, M. I., Zhang, G. J., & Bhassu, S. (2011). Deep parallel sequencing reveals conserved and novel miRNA in gill and hepatopancreas of *Macrobrachium rosenbergii*. *Genomics*. Manuscript Number: GENO-D-11-00106 (Manuscript submitted).