


APPENDIX

Blast Result for rnaBT

Description: sequencing result of beta-actin gene from muscle tissue transcripts

Molecule type: nucleic acid

Query Length: 573

>  [gb|AF300705.2](#) | *Litopenaeus vannamei* beta-actin mRNA, complete cds
Length=1320

Score = 1034 bits (1146), Expect = 0.0
Identities = 573/573 (100%), Gaps = 0/573 (0%)
Strand=Plus/Plus

```
Query 1 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 60
      |||
Sbjct 109 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 168

Query 61 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 120
      |||
Sbjct 169 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 228

Query 121 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 180
      |||
Sbjct 229 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 288

Query 181 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 240
      |||
Sbjct 289 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 348

Query 241 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCTCCTGCTGACCGAGGCTCCCCTCAACC 300
      |||
Sbjct 349 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCTCCTGCTGACCGAGGCTCCCCTCAACC 408

Query 301 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 360
      |||
Sbjct 409 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 468

Query 361 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 420
      |||
Sbjct 469 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 528

Query 421 TGCTCGACTCCGGCGACGGCGTGTCCACACCGTGCCCATCTACGAGGGATATGCCCTGC 480
      |||
Sbjct 529 TGCTCGACTCCGGCGACGGCGTGTCCACACCGTGCCCATCTACGAGGGATATGCCCTGC 588

Query 481 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 540
      |||
Sbjct 589 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 648

Query 541 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 573
      |||
Sbjct 649 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 681
```

Blast Result for rnaBH

Description: sequencing result of beta-actin gene from hepatopancreas tissue transcripts

Molecule type: nucleic acid

Query Length: 573

> [gb|AF300705.2](#) | *Litopenaeus vannamei* beta-actin mRNA, complete cds
Length=1320

Score = 1034 bits (1146), Expect = 0.0
Identities = 573/573 (100%), Gaps = 0/573 (0%)
Strand=Plus/Plus

```
Query 1 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 60
      |||
Sbjct 109 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 168

Query 61 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTTCGGCATGGGCCAGAAGGACT 120
      |||
Sbjct 169 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTTCGGCATGGGCCAGAAGGACT 228

Query 121 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 180
      |||
Sbjct 229 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 288

Query 181 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 240
      |||
Sbjct 289 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 348

Query 241 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCCGTCTGCTGACCGAGGCTCCCCTCAACC 300
      |||
Sbjct 349 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCCGTCTGCTGACCGAGGCTCCCCTCAACC 408

Query 301 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 360
      |||
Sbjct 409 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 468

Query 361 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 420
      |||
Sbjct 469 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 528

Query 421 TGCTCGACTCCGGCGACGGCGTGTCCACACCGTGCCCATCTACGAGGGATATGCCCTGC 480
      |||
Sbjct 529 TGCTCGACTCCGGCGACGGCGTGTCCACACCGTGCCCATCTACGAGGGATATGCCCTGC 588

Query 481 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 540
      |||
Sbjct 589 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 648

Query 541 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 573
      |||
Sbjct 649 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 681
```

Blast Result for rnaBG

Description: sequencing result of beta-actin gene from gill tissue transcripts

Molecule type: nucleic acid

Query Length: 573

> [gb|AF300705.2](#) *Litopenaeus vannamei* beta-actin mRNA, complete cds
Length=1320

Score = 1034 bits (1146), Expect = 0.0
Identities = 573/573 (100%), Gaps = 0/573 (0%)
Strand=Plus/Plus

```
Query 1   ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 60
          |||
Sbjct 109  ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 168

Query 61  CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 120
          |||
Sbjct 169  CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 228

Query 121  CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 180
          |||
Sbjct 229  CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 288

Query 181  AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 240
          |||
Sbjct 289  AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 348

Query 241  ACGAGCTCCGCGTGGCCCCGAGGAGCACCCCGTCCTGCTGACCGAGGCTCCCCTCAACC 300
          |||
Sbjct 349  ACGAGCTCCGCGTGGCCCCGAGGAGCACCCCGTCCTGCTGACCGAGGCTCCCCTCAACC 408

Query 301  CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 360
          |||
Sbjct 409  CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 468

Query 361  TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 420
          |||
Sbjct 469  TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 528

Query 421  TGCTCGACTCCGGCGACGGCGTGTCCCACACCGTGCCCATCTACGAGGGATATGCCCTGC 480
          |||
Sbjct 529  TGCTCGACTCCGGCGACGGCGTGTCCCACACCGTGCCCATCTACGAGGGATATGCCCTGC 588

Query 481  CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 540
          |||
Sbjct 589  CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 648


Query 541  TCCTGACGGAGCGTGGCTACACCTTCACGACCA 573
          |||
Sbjct 649  TCCTGACGGAGCGTGGCTACACCTTCACGACCA 681
```

Blast Result for rnaBL

Description: sequencing result of beta-actin gene from leg tissue transcripts

Molecule type: nucleic acid

Query Length: 573

>  [gb|AF300705.2](#) *Litopenaeus vannamei* beta-actin mRNA, complete cds
Length=1320

Score = 1034 bits (1146), Expect = 0.0
Identities = 573/573 (100%), Gaps = 0/573 (0%)
Strand=Plus/Plus

```
Query 1 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 60
      |||
Sbjct 109 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 168

Query 61 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 120
      |||
Sbjct 169 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 228

Query 121 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 180
      |||
Sbjct 229 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 288

Query 181 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 240
      |||
Sbjct 289 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 348

Query 241 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCCGTCTGCTGACCGAGGCTCCCTCAACC 300
      |||
Sbjct 349 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCCGTCTGCTGACCGAGGCTCCCTCAACC 408

Query 301 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 360
      |||
Sbjct 409 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 468

Query 361 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 420
      |||
Sbjct 469 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 528

Query 421 TGCTCGACTCCGGCGACGGCGTGTCCACACCCGTGCCATCTACGAGGGATATGCCCTGC 480
      |||
Sbjct 529 TGCTCGACTCCGGCGACGGCGTGTCCACACCCGTGCCATCTACGAGGGATATGCCCTGC 588

Query 481 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 540
      |||
Sbjct 589 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 648


Query 541 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 573
      |||
Sbjct 649 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 681
```

Blast Result for rnaBE

Description: sequencing result of beta-actin gene from eyestalk tissue transcripts

Molecule type: nucleic acid

Query Length: 573

>  [gb|AF300705.2](#) *Litopenaeus vannamei* beta-actin mRNA, complete cds
Length=1320

Score = 1034 bits (1146), Expect = 0.0
Identities = 573/573 (100%), Gaps = 0/573 (0%)
Strand=Plus/Plus

```
Query 1 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 60
      |||
Sbjct 109 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 168

Query 61 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 120
      |||
Sbjct 169 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 228

Query 121 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 180
      |||
Sbjct 229 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 288

Query 181 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 240
      |||
Sbjct 289 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 348

Query 241 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCCGTCTGCTGACCGAGGCTCCCTCAACC 300
      |||
Sbjct 349 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCCGTCTGCTGACCGAGGCTCCCTCAACC 408

Query 301 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 360
      |||
Sbjct 409 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 468

Query 361 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 420
      |||
Sbjct 469 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 528

Query 421 TGCTCGACTCCGGCGACGGCGTGTCCACACCGTGCCATCTACGAGGGATATGCCCTGC 480
      |||
Sbjct 529 TGCTCGACTCCGGCGACGGCGTGTCCACACCGTGCCATCTACGAGGGATATGCCCTGC 588

Query 481 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 540
      |||
Sbjct 589 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 648

Query 541 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 573
      |||
Sbjct 649 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 681
```

Blast Result for rnaBB

Description: sequencing result of beta-actin gene from brain tissue transcripts

Molecule type: nucleic acid

Query Length: 573

> [gb|AF300705.2|](#) *Litopenaeus vannamei* beta-actin mRNA, complete cds
Length=1320

Score = 1034 bits (1146), Expect = 0.0
Identities = 573/573 (100%), Gaps = 0/573 (0%)
Strand=Plus/Plus

```
Query 1 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 60
      |||
Sbjct 109 ATGGCTCCGGCATGTGCAAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCC 168

Query 61 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 120
      |||
Sbjct 169 CCTCCATCGTCGGCCGACCCCGTCATCAGGGTGTGATGGTCGGCATGGGCCAGAAGGACT 228

Query 121 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 180
      |||
Sbjct 229 CGTACGTCGGCGACGAGGCCAGAGCAAGCGAGGTATCCTCACCTGAAATACCCCATCG 288

Query 181 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 240
      |||
Sbjct 289 AGCACGGCATCGTCACCAACTGGGACGACATGGAGAAGATCTGGCATCACACTTTCTACA 348

Query 241 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCTGCTGCTGACCGAGGCTCCCTCAACC 300
      |||
Sbjct 349 ACGAGCTCCGCGTGGCCCCGAGGAGCACCCTGCTGCTGACCGAGGCTCCCTCAACC 408

Query 301 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 360
      |||
Sbjct 409 CCAAGGCTAACC GCGAGAAGATGACACAGATCATGTTTCGAGACCTTCAACACCCCGCCA 468

Query 361 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 420
      |||
Sbjct 469 TGTACGTGGCCATCCAGGCCGTGCTGTCCCTGTACGCCTCCGGCCGTACCACCGGTATCG 528

Query 421 TGCTCGACTCCGGCGACGGCGTGTCCACACCGTGCCATCTACGAGGGATATGCCCTGC 480
      |||
Sbjct 529 TGCTCGACTCCGGCGACGGCGTGTCCACACCGTGCCATCTACGAGGGATATGCCCTGC 588

Query 481 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 540
      |||
Sbjct 589 CCCACGCCATCCTGCGTCTGGACTTGGCCGGCCGCGACCTCACAGACTACCTGATGAAGA 648

Query 541 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 573
      |||
Sbjct 649 TCCTGACGGAGCGTGGCTACACCTTCACGACCA 681
```


Blast Result for rna256G

Description: sequencing result of precursor miRNA 256 from gill tissue transcripts

Molecule type: nucleic acid

Query Length: 233

> [gb|FE118488.1](#) LV_HC_RA068N13r *Litopenaeus vannamei* hemocyte cDNA library *Litopenaeus vannamei* cDNA, mRNA sequence.
Length=827

Score = 396 bits (438), Expect = 8e-110
Identities = 233/237 (98%), Gaps = 4/237 (1%)
Strand=Plus/Plus

```
Query 1   GTTACTCTCA-TGAA-TTAGGAGAATTACAGAAACAAAAATTTAAAATGGTTTACAGTTAC   58
          |||
Sbjct 562   GTTACTCTCAATGAAATTAGGAGAATTACAGAAACAAAAATTTAAAATGGTTTACAGTTAC   621

Query 59   AAAGCAAATAAATGGTTTTAAATGCATTTT-CTTTTGATTACAAAAGTGGTCCTTTTAC   117
          |||
Sbjct 622   AAAGCAAATAAATGGTTTTAAATGCATTTTCTTTTGATTACAAAAGTGGTCCTTTTAC   681

Query 118  CTTAGTAATCTACTtttttttAGATCATGAATAACTAACTATATAAAAAGGAATGAATAAAA   177
          |||
Sbjct 682  CTTAGTAATCTACTTTTTTTAGATCATGAATAACTAACTATATAAAAAGGAATGAATAAAA   741


Query 178  GACTGTATTCTACAAAATGTGTTA-TTTTCAAGTTTCCTTTTAAACATTTTCAGCAGAC   233
          |||
Sbjct 742  GACTGTATTCTACAAAATGTGTTATTTTCAAGTTTCCTTTTAAACATTTTCAGCAGAC   798
```


Blast Result for rna256L

Description: sequencing result of precursor miRNA 256 from leg tissue transcripts

Molecule type: nucleic acid

Query Length: 230

>  [gb|FE118488.1](https://www.ncbi.nlm.nih.gov/nuccore/FE118488.1) LV_HC_RA068N13r *Litopenaeus vannamei* hemocyte cDNA library *Litopenaeus vannamei* cDNA, mRNA sequence.
Length=827

Score = 385 bits (426), Expect = 1e-106
Identities = 229/234 (97%), Gaps = 4/234 (1%)
Strand=Plus/Plus

```
Query 1   GTTACTCTCA-TGAA-TTAGGAGAATAACAGAAACAAAAATTTAAAATGGTTTACAGTTAC 58
          |||
Sbjct 562  GTTACTCTCAATGAAATTAGGAGAATTACAGAAACAAAAATTTAAAATGGTTTACAGTTAC 621

Query 59  AAAGCAAATAAATGGTTTTAAATGCATTTT-CTTTTGATTACAAAAGTGGTCCTTTTAC 117
          |||
Sbjct 622  AAAGCAAATAAATGGTTTTAAATGCATTTTCTTTTGATTACAAAAGTGGTCCTTTTAC 681

Query 118 CTTAGTAATCTACTtttttttAGATCATGAATAACTAACTATATAAAAAGGAATGAATAAAA 177
          |||
Sbjct 682  CTTAGTAATCTACTTTTTTTAGATCATGAATAACTAACTATATAAAAAGGAATGAATAAAA 741


Query 178  GACTGTATTCTACAAAATGTGTTA-TTTTCAAGTTTCCTTTTAAACATTTTCAGCA 230
          |||
Sbjct 742  GACTGTATTCTACAAAATGTGTTATTTTCAAGTTTCCTTTTAAACATTTTCAGCA 795
```

Blast Result for rna256E

Description: sequencing result of precursor miRNA 256 from eyestalk tissue transcripts

Molecule type: nucleic acid

Query Length: 233

>  [gb|FE118488.1](https://www.ncbi.nlm.nih.gov/nuclot/FE118488.1) LV_HC_RA068N13r *Litopenaeus vannamei* hemocyte cDNA library *Litopenaeus vannamei* cDNA, mRNA sequence.
Length=827

Score = 387 bits (428), Expect = 4e-107
Identities = 230/235 (97%), Gaps = 4/235 (1%)
Strand=Plus/Plus

```
Query 3   TGTTACTCTCA-TGAA-TTAGGAGAATAACAGAAACAAAAATTTAAATGGTTTACAGTTA 60
          |||
Sbjct 561  TGTTACTCTCAATGAAATTAGGAGAATTACAGAAACAAAAATTTAAATGGTTTACAGTTA 620

Query 61  CAAAGCAAATAAATGGTTTTAAATGCATTTT-CTTTTGATTACAAAAGTGGTCCTTTTA 119
          |||
Sbjct 621  CAAAGCAAATAAATGGTTTTAAATGCATTTTCTTTTGATTACAAAAGTGGTCCTTTTA 680

Query 120 CCTTAGTAATCTACTTTTTTTTAGATCATGAATAACTAATAATAAAAAGGAATGAATAAA 179
          |||
Sbjct 681  CCTTAGTAATCTACTTTTTTTTAGATCATGAATAACTAATAATAAAAAGGAATGAATAAA 740


Query 180  AGACTGTAATTCTACAAAATGTGTTA-TTTTCAAGTTTCCTTTTAACATTTTCAGCA 233
          |||
Sbjct 741  AGACTGTAATTCTACAAAATGTGTTATTTTTCAAGTTTCCTTTTAACATTTTCAGCA 795
```


Blast Result for rna272G

Description: sequencing result of precursor miRNA 272 from gill tissue transcripts

Molecule type: nucleic acid

Query Length: 200

>  [gb|FE085434.1](https://www.ncbi.nlm.nih.gov/nuccore/gb/FE085434.1) LV_GL_RA29M12r *Litopenaeus vannamei* gills cDNA library *Litopenaeus vannamei* cDNA, mRNA sequence.
Length=510

Score = 329 bits (364), Expect = 8e-90
Identities = 193/200 (96%), Gaps = 0/200 (0%)
Strand=Plus/Plus

```
Query 1   TTTTCTGATTTAAGTGCATGACTTTCAAGCACTGCATAGTTTTAACAGAACACGCGCACC 60
          |||
Sbjct 76   TTTTCTGATTTAAGTGCATGACTTTCAAGCACTGCATAGTTTTAATAGAACACGCGCACC 135

Query 61   CTCAAACACACATGCATACA GATACGTATATGTGTGTGTGTGTGTGTGTGCAAATATGTG 120
          |||
Sbjct 136  CTCAAACACACATGCATACA GATACGTATATGTGTGTGTGTGTGTATGTGCAAATATGTG 195

Query 121  CACACATCTACAATCTACACGCAATGCTTACATGTGATATGAACAATGGCTTATGGGCTT 180
          |||
Sbjct 196  CACACATCTACAATTTACACGCAATGCTTCCATGTGATATGAATAATGGCTTATGGGCTT 255

Query 181  GATCAAGATGCAGACGCCGA 200
          |
Sbjct 256  GTTCAAGATGTAGACGCCGA 275
```

Blast Result for dna272G

Description: sequencing result of precursor miRNA 272 from gill tissue DNA

Molecule type: nucleic acid

Query Length: 200

> [gb|FE085434.1](#) LV_GL_RA29M12r *Litopenaeus vannamei* gills cDNA library *Litopenaeus vannamei* cDNA, mRNA sequence.
Length=510

Score = 334 bits (370), Expect = 2e-91
Identities = 194/200 (97%), Gaps = 0/200 (0%)
Strand=Plus/Plus

```
Query 1   TTTTCTGATTTAAGTGCATGACTTTCAAGCACTGCATAGTTTTAACAGAACACGCGCACC 60
          |||
Sbjct 76   TTTTCTGATTTAAGTGCATGACTTTCAAGCACTGCATAGTTTTAATAGAACACGCGCACC 135

Query 61   CTCAAACACACATGCATACA GATACGTATATGTGTGTGTGTGTGTGTGCAAATATGTG 120
          |||
Sbjct 136  CTCAAACACACATGCATACA GATACGTATATGTGTGTGTGTGTGTATGTGCAAATATGTG 195

Query 121  CACACATCTACAATCTACACGCAATGCTTACATGTGATATGAACAATGGCTTATGGGCTT 180
          |||
Sbjct 196  CACACATCTACAATTTACACGCAATGCTTCCATGTGATATGAATAATGGCTTATGGGCTT 255

Query 181  GTTCAAGATGTACACGCCGA 200
          |||
Sbjct 256  GTTCAAGATGTAGACGCCGA 275
```

Blast Result for rna1476H

Description: sequencing result of precursor miRNA 1476-3p from hepatopancreas tissue transcripts

Molecule type: nucleic acid

Query Length: 330

> [gb|FE146432.1|](#) LV_HP_RA50B22f *Litopenaeus vannamei* hepatopancreas cDNA library *Litopenaeus vannamei* cDNA, mRNA sequence.
Length=638

Score = 594 bits (658), Expect = 2e-169
Identities = 329/329 (100%), Gaps = 0/329 (0%)
Strand=Plus/Plus

```
Query 1   ACTTTCCTGAGGTCGTCCTGAGCTGCGTCGAGCTGTTCTCCGTAAACACCTCATTAATG 60
          |||
Sbjct 170  ACTTTCCTGAGGTCGTCCTGAGCTGCGTCGAGCTGTTCTCCGTAAACACCTCATTAATG 229

Query 61  AGGATCCAAGGCACGTAATTAAGAGGTGGGTTGAGCTGTGCCTGCTTCACGCCACCTCA 120
          |||
Sbjct 230  AGGATCCAAGGCACGTAATTAAGAGGTGGGTTGAGCTGTGCCTGCTTCACGCCACCTCA 289

Query 121 TGCTGCAGCTGCTGACCCTCCACGGAGTTGAAGCAGTCATAAACTCTAGTATAATTGACC 180
          |||
Sbjct 290  TGCTGCAGCTGCTGACCCTCCACGGAGTTGAAGCAGTCATAAACTCTAGTATAATTGACC 349

Query 181  CCTGACACCTCGGCACATCTAGCTCCTGCTGCAGTGCCTACAAGTTCTGCCATAGTACAG 240
          |||
Sbjct 350  CCTGACACCTCGGCACATCTAGCTCCTGCTGCAGTGCCTACAAGTTCTGCCATAGTACAG 409

Query 241  TTGGCAAAAGACATGTACTGTTCCTCAGAGCTGTATTTCTTGGCACACGTTAGCATTATG 300
          |||
Sbjct 410  TTGGCAAAAGACATGTACTGTTCCTCAGAGCTGTATTTCTTGGCACACGTTAGCATTATG 469

Query 301  TTCCCTTCGCATTCGTCTGGTCCATGTTG 329
          |||
Sbjct 470  TTCCCTTCGCATTCGTCTGGTCCATGTTG 498
```

Sequencing Result for dnaBG

Description: sequencing result of beta actin from gill tissue DNA

>dnaBG

```
GGCTCGGCATGTGCAGGCCGGCTTCGCTGGTGACGATGCACCACGAGCTGTGTTCCCCTCCATCGTCGGCCGACCCCGTCA
TCAGGTCAGTATGCGGCTTTTAAAGCTTTGGTTTTTCATGAAATGTTGGTATTCGAGAGCCTGATTTTTTTATAATTGTGC
TTTTTTTTTTGACATATCTTCTCTCTCTGTGCTAGAGACTTTTCTTCTCCCCCGGGGTGAGGTGCTCGGTGTGCCCAA
AGAGACTCACATCTCCGACAAGACCCCCAGAACACGAGGTATCCCCTCCCCGTGATATCCCCCTCGAACGGGGTCTCCTC
CCCCTGTGACAACATGTGGAAAATATGGGGTCTCACTTTTTCCACCAAGATCTCCGTGTGCCCCAGAAGAACCCCCCCT
GTGGAGACAGACTCTCCTCTCCCCCAGCGATACCCGAGAAAATAACACACATATTGTGTTAGACATTCTCAACCCCCCG
ACGTGCATGTGCACCTACGCGGTGCGGTGTCTGTGCACGTCTGGCGGCACACCCCGTATCTCGCGCTACTCCCGCAGACAGN
GTGTGTCACACAGCGTGCATATATAAGA
```

Sequencing Result for dna1476G (reverse complement)

Description: sequencing result of precursor miRNA 1476-3p from gill tissue DNA

>dna1476G(reverse complement)

```
ATATTTAAAAATCAAACAGATAATTCAGATAGTTCCTATTCTATATTTACTAAATCTCAAGTCTCATACATCCCCTAT
CTCGAATATCTCGCACNGCGCTCACACAATAAATAATATATCNGAGTTATGTATATATAGATATATATATATTTNTTCTTT
TTTTTCATCACATCATATTATGATGTAGATGAAAAAGGAATTAATGTACTGTTTNTAATTTTTTCGCTTATGTCACATGAG
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