



**Anopheles apicimacula** mosquito rRNA gene internal transcribed spacer 2 (ITS2) unanimity alignment & molecular taxonomy primer map  
Laboratorio de Genómica Viral y Humana, Facultad de Medicina, Universidad Autónoma de San Luis Potosí, México (08/Apr/2022, v4.0)

**NOTE:** These alignments are split into two different ITS2 sequence groups described as previously unrecognized Molecular Operational Taxonomic Units (MOTUs) by Gomez,G.F. PLoS ONE 10 (3) PUBMED: 25774795.

```
      1
      | Mosq-F
      |
TGTGAACTGCAGGACACAT
Consens1 TGAAGTGCAGGACACATGAACATCGATAAGTTGAACGCATATTGCGCGTCGGGCGACACAGCTCGACGCACATATCATTGAGAGTCCATATTTGTTAGTCGGGGACACTTACGAGCGTCCGTGCCACCCG
KF698907 -----
KF698908 -----
KF698909 -----
KF698910 -----T-----
KM262754 -----A-----
      130
```

```
      1
      | Mosq-F
      |
TGTGAACTGCAGGACACAT
Consens2 TGAAGTGCAGGACACATGAACATCGATAAGTTGAACGCATATTGCGCGTCGGGCGACACAGCTCGACGCACATATCATTGAGAGTCCATATTTGGAAGTCCGTGACATTACGATACGTCCGTGCCGCTCC
KM262755 -----
KM262757 -----
KM262758 -----
KM262759 -----
KM262760 -----
      130
```



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```

131                                                                    260
|                                                                    |
Consens1 TTGGGCCCCGTGCCCGGGGTGGACCCACGCGGTCACTCGTTTCCTGGGGTAGCGCCTCGCAGAGAGCGGTGCCCTTAAGACAGTGGAGCGCGTTCCTCGTCCGTTAGCGACCGTCACAAGCGCCCGGCG
KF698907 -----
KF698908 -----A-----G-----
KF698909 -----T-----
KF698910 -----
KM262754 -----T-----
  
```

```

131                                                                    260
|                                                                    |
Consens2 CGGTCCCGTACCGGGGGATGGACCCACGCGGTCAATCGTTTCCTGGGGTAGCGGCTCAAGAGCCGGTGCCCTTAAGACAGTGGAGCGCGTTCCTCGTCCGTAGCGACCGTCACAAGCGCCCGGCGTTGG
KM262755 -----
KM262757 -----A-----
KM262758 -----
KM262759 -----
KM262760 -----TT-----
  
```



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```

      261                                                                    390
      |                                                                    |
Consens1 TTGGACCAACACCTCACCTCACCACCATGGAGTGTGCGATGCGGTTCGGACCCCAGTCGTCGGGAGCGACGGTACCAGGTCGGGATCGTTTCGTGTCACCCACTGAGTCGGGTGTACCCCCACAGGGCTAC
KF698907 -----
KF698908 -----
KF698909 -----
KF698910 -----
KM262754 -----
  
```

```

      261                                                                    390
      |                                                                    |
Consens2 ACCAACACCTCACCTCCTCACAAGAGCGTTGATGCGGTGTCGGACCCCAACCGTTTGGATGCGACGGTACAAGGGCGGGAGCGAGCGTTAGCTCTACCCGCATGCCAGAGCAATTCTGGCAGGAGGTACA
KM262755 -----
KM262757 -----G-----
KM262758 -----T-----
KM262759 -----G-----
KM262760 -----T-----
  
```



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```
          391                               Mosq-R2                               480
          |                               |                               |
Consens1  GGCCGGGGGTACAGACATGAGAGAGAGCACTCCTTCAGTGGAGCTATGTGGACCTCAATTGATGTGTGACTACCCCCTAAA|
KF698907  -----
KF698908  -----
KF698909  -----
KF698910  -----T-----
KM262754  -----
```

```
          391                               Mosq-R2                               480
          |                               |                               |
Consens2  CCCAGACCCAGGTCCTTGGGTGTACGGAGCACTCCTTCAGTGGAGCAAGTGGACCTCAATTGATGTGTGACTACCCCCTAAA|
KM262755  -----
KM262757  -----GG-----
KM262758  -----
KM262759  -----GG-----
KM262760  -----
```