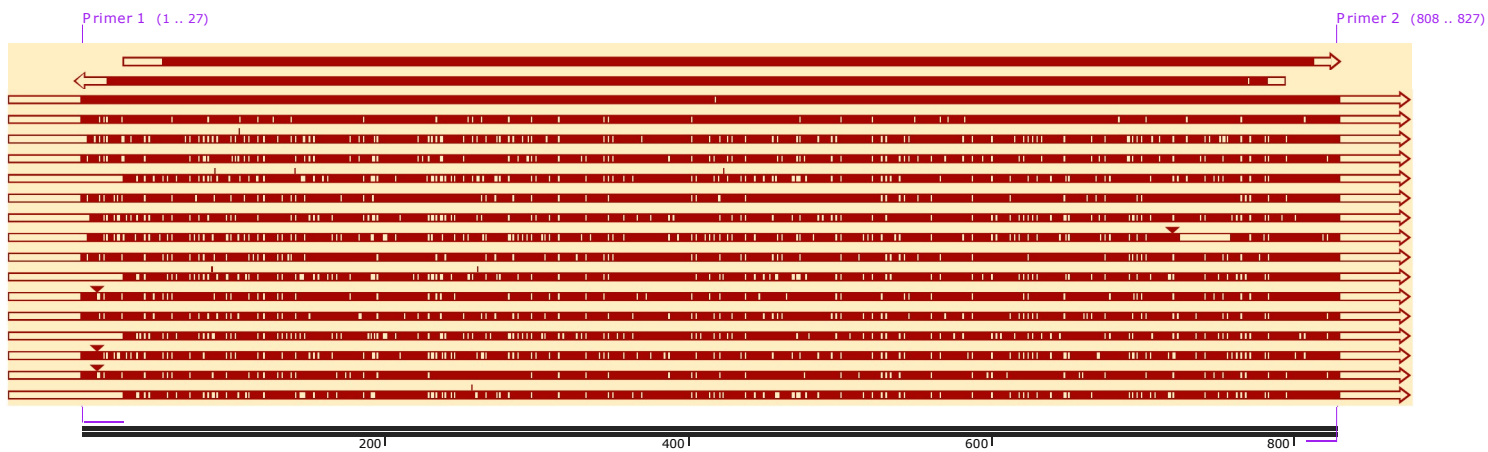
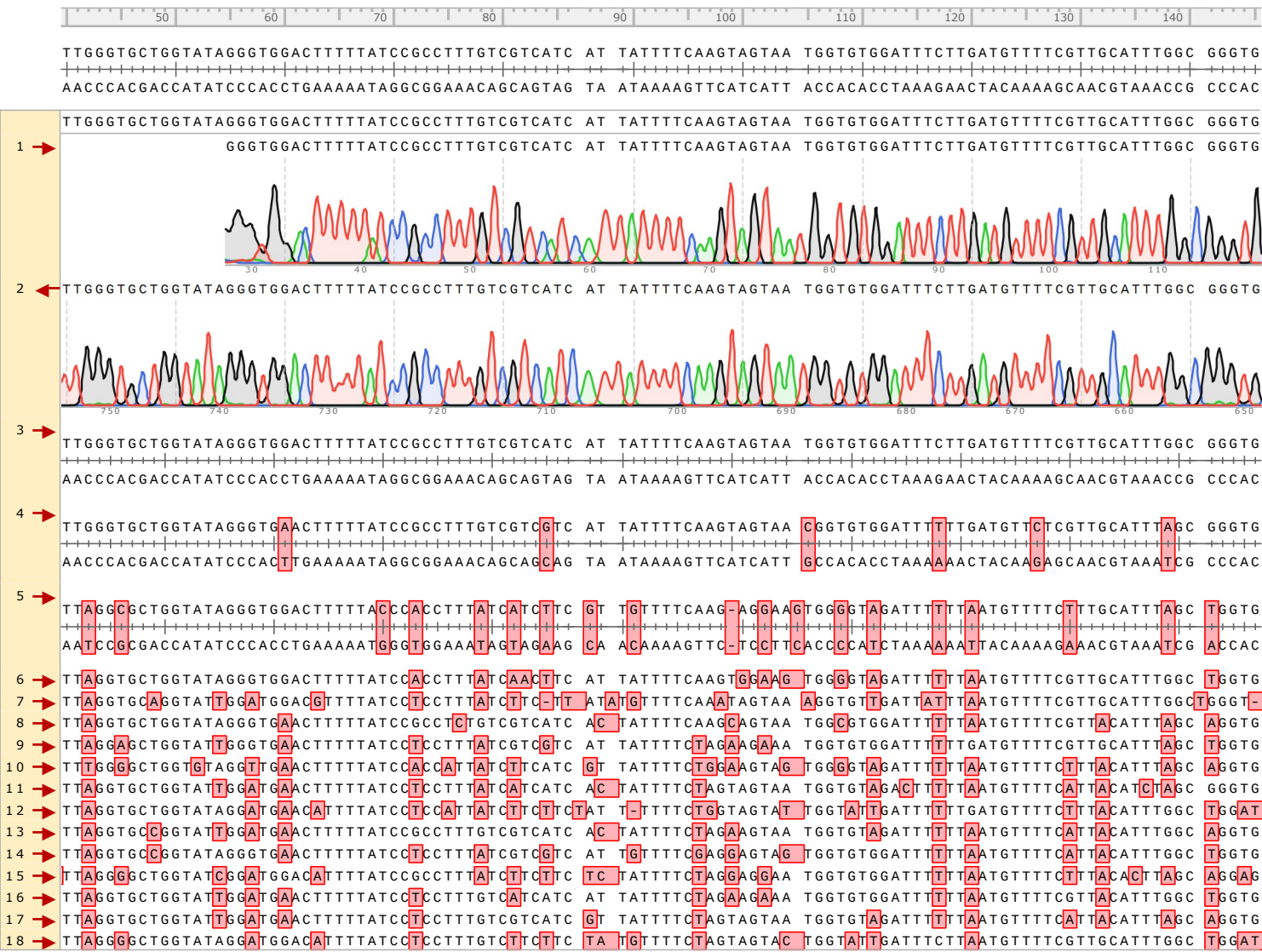


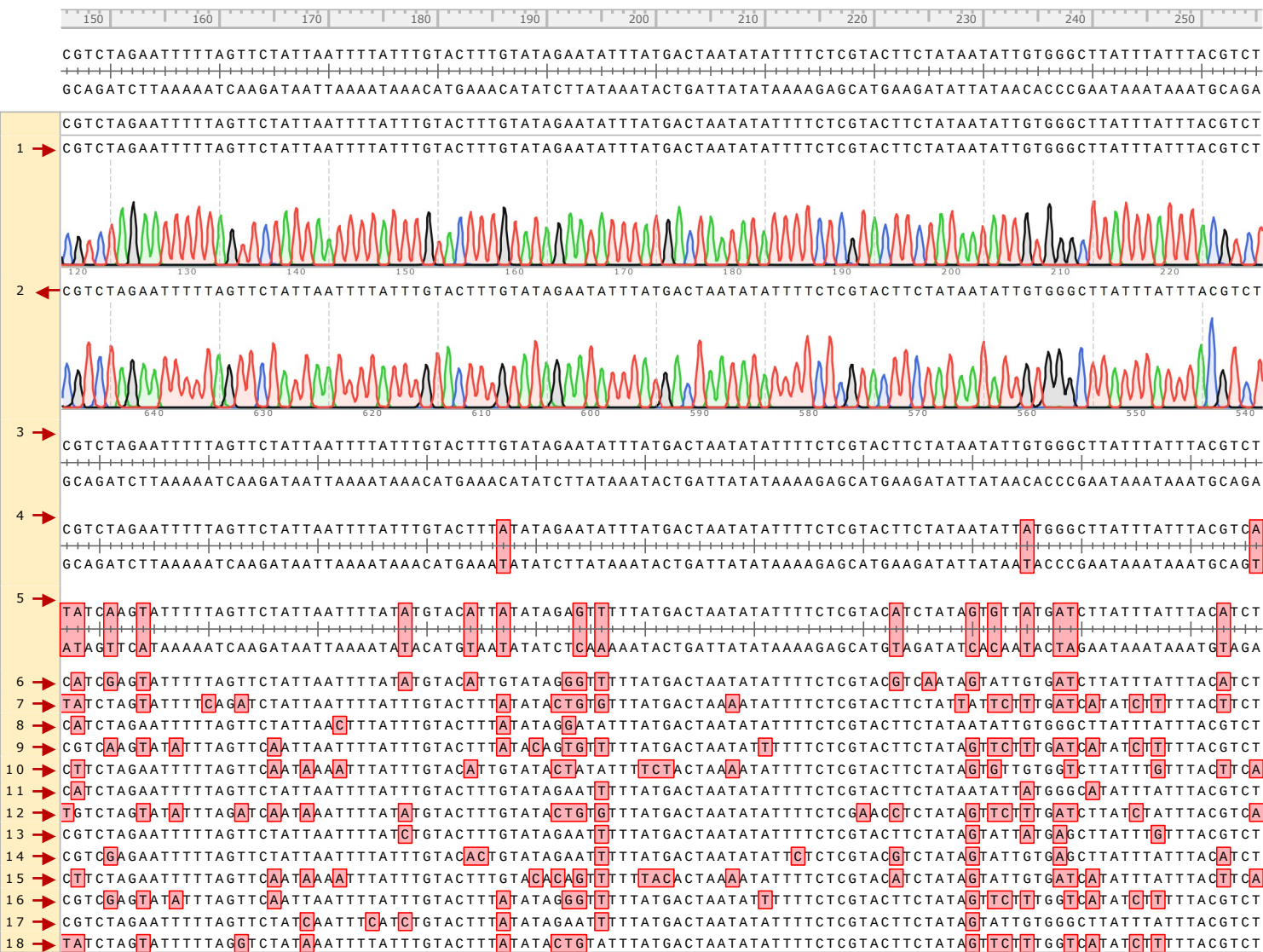
TP_Cox1_Tsag_cox1F+Tae_cox1R_837bp_Tsingke20210824 (780 bp)



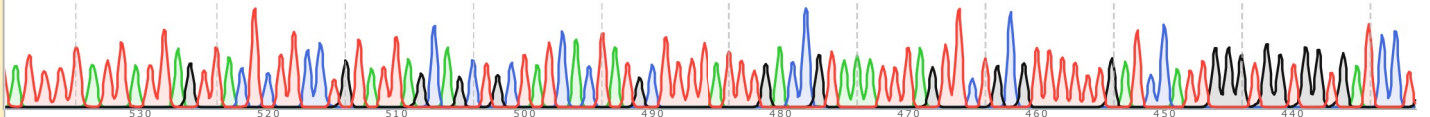
Case proglottids_COX1_Tsag_COX1F+Tae_COX1R_827bp
827 bp







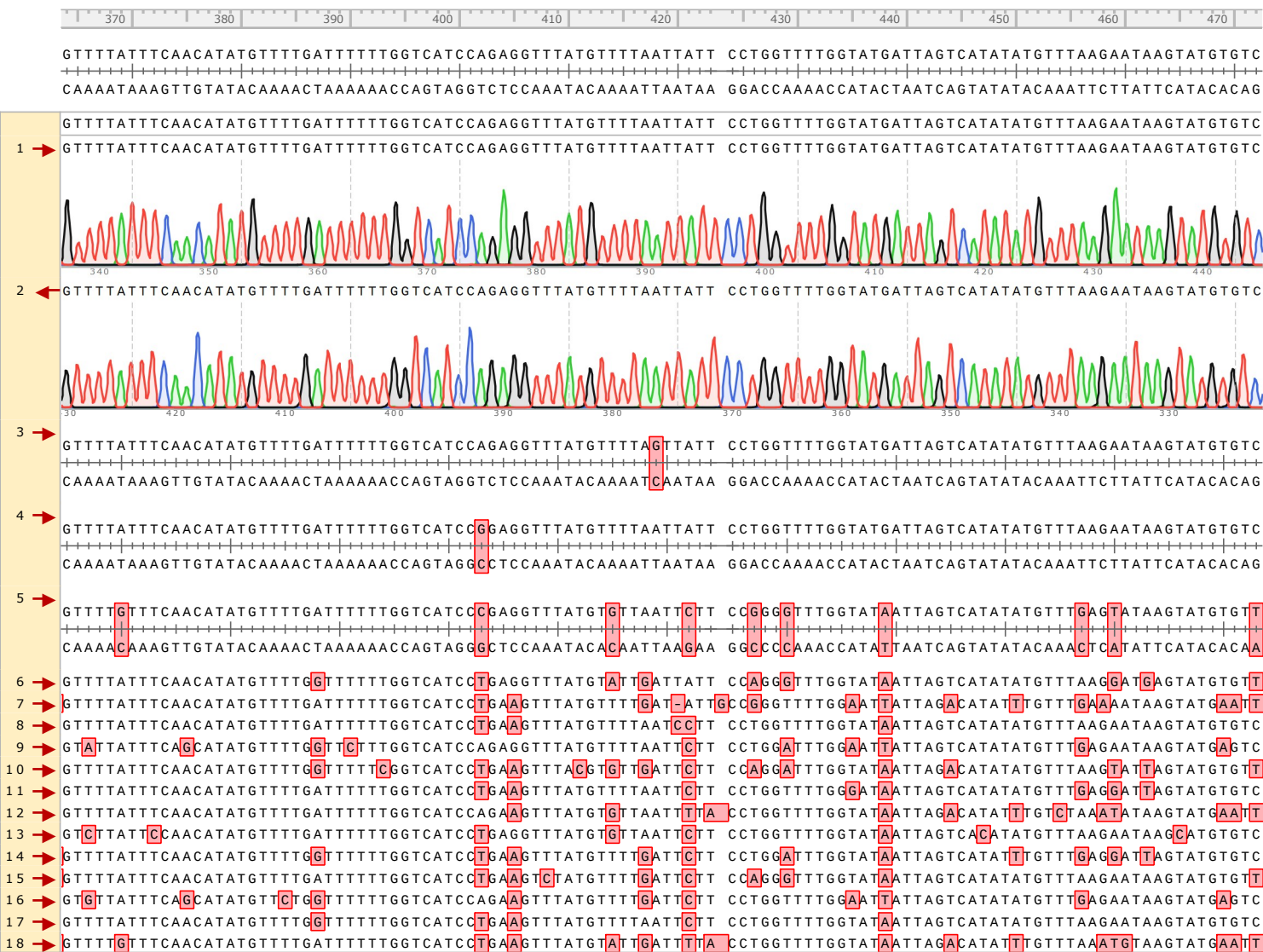
AT TTTA TTATTAGTTACTCTTCCTGTATTAGCAGCTGCTATCACTATGCTTTTATTTGACCGTAAATTTAGTTCTGCGTTTTTTGATCCATTGGGTGGTGGTGATCCT

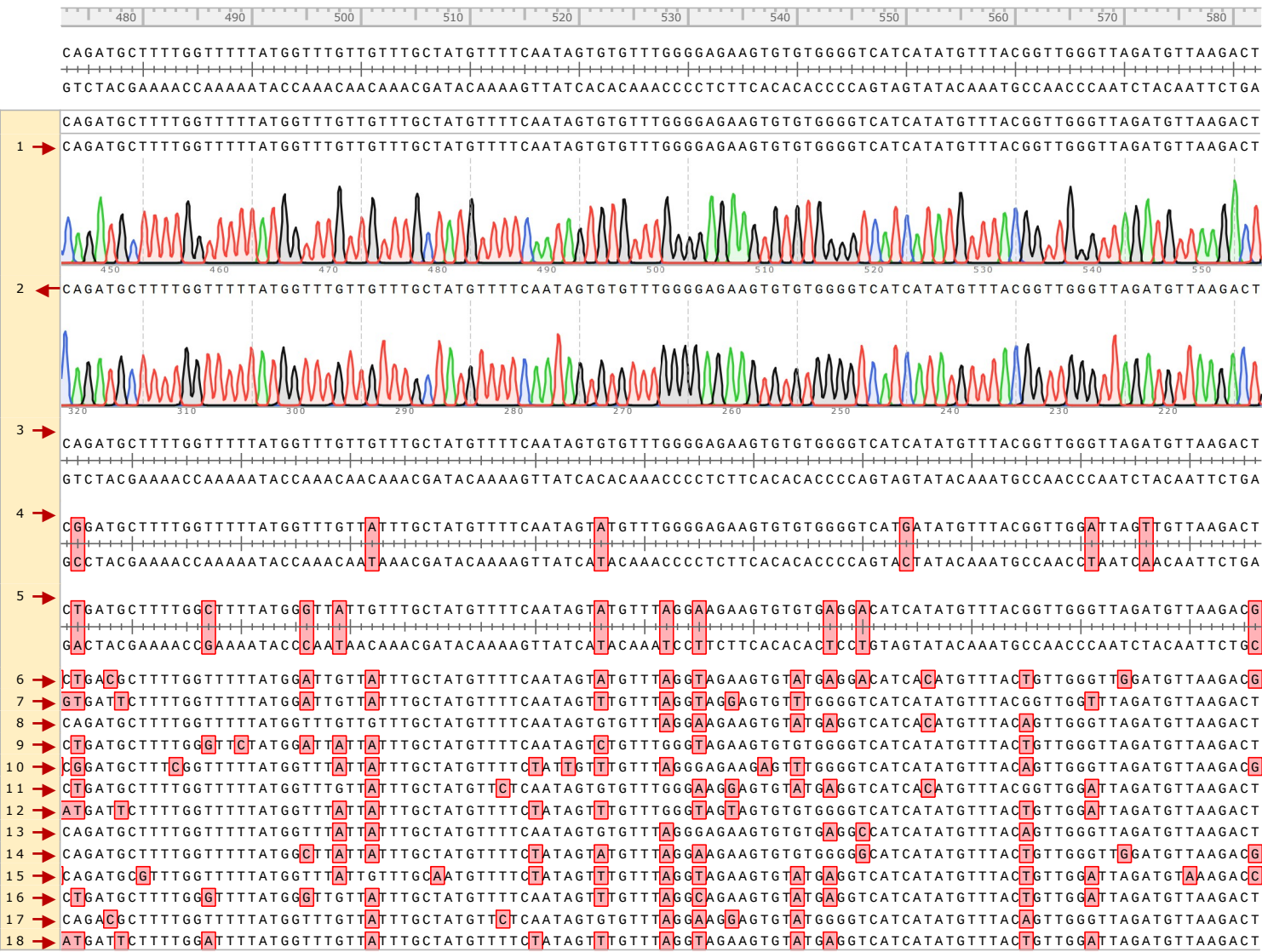


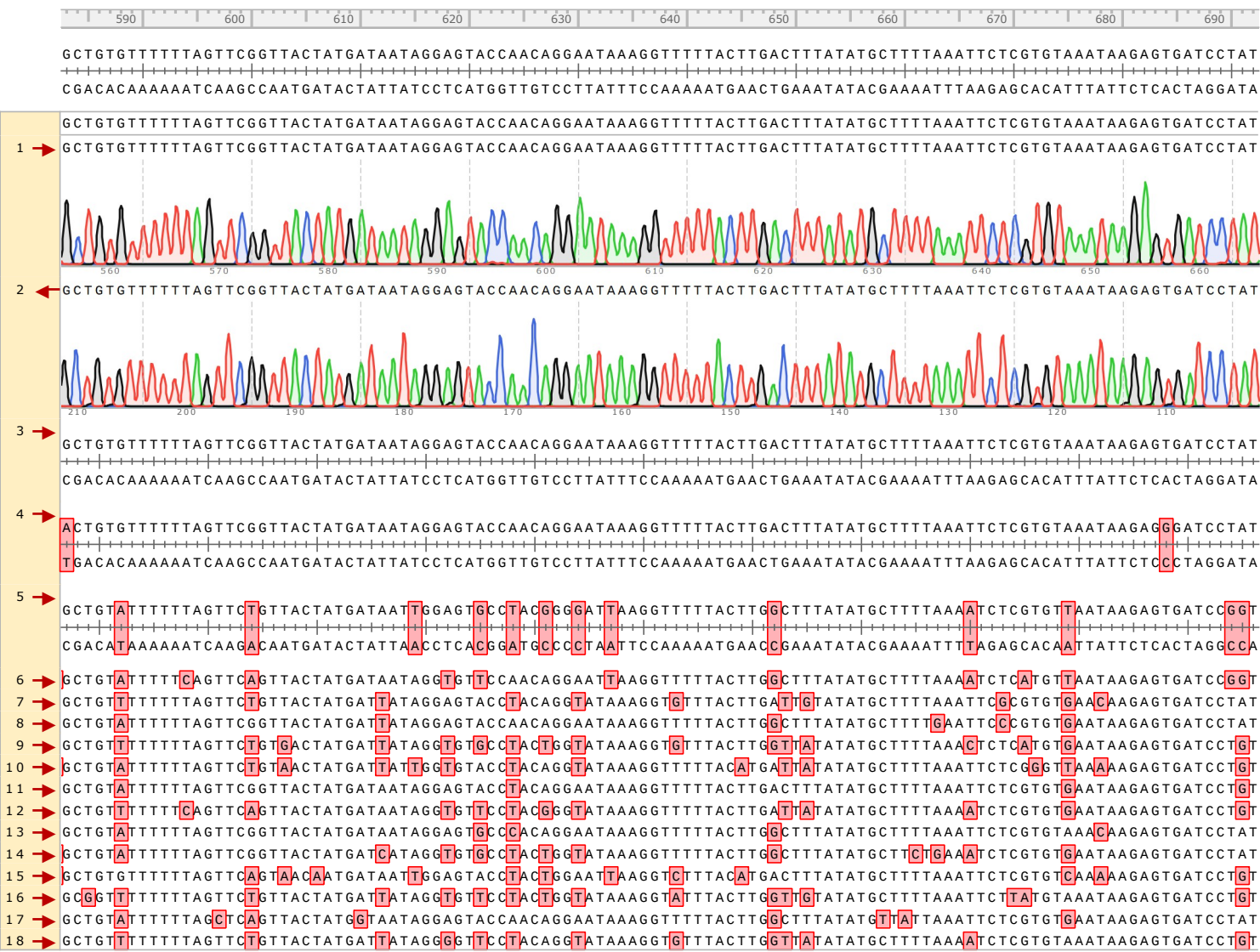
AT CTTA TTGTTAGTTACTCTTCTGTGTTAGCAGCTGCTATTACTATGCTTTTATTTGATCGTAAATTTAGTTCTGCGTTTTTGTCCGTTAGGTGGTGGTGATCCT
TA GAAT AACAATCAATGAGAAGGACACAAATCGTCGACGATAATGATACGAAAATAAACTAGCATTTAAATCAAGACGCAAAAACTAGGCAATCCACCACCACTAGGA

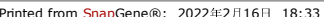
AT CTTG TTATTG GTTACTTT ACCTGTTT TGGCAGCG CTGTTACT ATGCTTCT ATTGATCG TAAATTTAG TTCTGCGT TTTTGTAT CCGTTAGG AGGTGGTG ATCCTT
TA GAAC AATAACCA ATGAATGA GACAAACG CTCGCGC GACAATG ATACGAAG ATAAACTA GCATTTTAA ATCAAGACG CAAAAAAT AGGCAATC CTCCACCA CTAGGA

A TTTA TTATTAGTACTCTTCCTGT TTTAGCGGCTGCGGTACTATGCTTTTATTTGATCGTAAATTTAGTTCTGCATTTTTTGATCCGTTAGGAGGTGGTGATCCT
 AT ATTGCATAATAGTTACATTGCTCTGT TTTAGCAGCTGCTATTAATGCTTTTTGTTTGAATCGTAAATTTAGTTCTGCTTTTTTGATCCGTTAGGAGGTGGTGATCCTA
 AT TTTA TTGTTGTTACGCTTCCCTGATTGGCGAGCTGCTATTAATGCTTTTTATTTGATCGTAAATTTAGTTCTGCAATTTTTTGATCCATTAGGTGGTGGTGATCCT
 AT TTTGTTGTTAGTACTCTTCCTGT TTTAGCAGCTGCTATTAATGCTTTTTATTTGATCGTAAATTTAGTTCTGCAATTTTTTGATCCATTAGGTGGTGGTGATCCT
 A TTTA TTATCTGTTACTCTTCCTGTGCTGCTGCGCAATTAATGTTTGAATCGTAAATTTAGTTCTAGCGTTCTTTGATCCATTAGGAGGTGGTGATCCT
 AT TTTA TTATTGGTTACACTTCCCTGATTGGCGAGCTGCTATCACTATGCTCTTAATTTGATCGTAAATTTAGCTCTGCAATTTTTTGATCCGTTAGGAGGTGGTGATCCT
 GTGTTACATTATTGTTACTGTTAGGCGCTGCTATTAATGCTTTTTATTTGATCGTAAATTTAGTTCTGCAATTTTTTGATCCGTTAGGTGGTGGTGATCCT
 AT TTTA TTATTAGTACTCTTCCTGT TTTAGCAGCTGCTATTAATGCTTTTTGTTGATCGTAAATTTAGTTCTGCAATTTTTTGATCCGTTGGTGGTGGTGATCCT
 AT TTTA TTGTTGTTACGCTTCCCTGATTGGCGAGCTGCTATTAATGCTTTTTGTTGATCGTAAATTTAGTTCTGCAATTTTTTGATCCATTAGGTGGTGGTGATCCG
 AT ATTA TTATTGGTTAACTCTTCCTGTGCTGCTGAGCGCAATTAATGTTTGAATCGTAAATTTAGTATAGCAATTTTTTGATCCTTAGGTGGAGGAGATCCTA
 AT TTGGTGGTACTCTTCCTGT TTTGCTGCTGCTGCTATTAATGCTTTTTGTTGATCGTAAATTTAGTTCTGCAATTTTTTGATCCGTTAGGTGGTGGTGATCCT
 AT TTTA TTATTAGTACTCTTCCTGATTATAGCAGCTGCTATTAATGCTTTTTATTTGATCGTAAATTTAGTTCTGCAATTTTTTGATCCATTAGGTGGTGGTGATCCT
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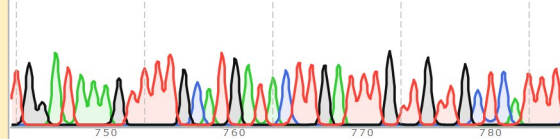
780 790 800 810 820

TGGATAAAGTTTTGCATGATACTTGATTTGTTGTTGCTCATTTTCATTATGTTATGTC 3'
ACCTATTTCAAACGTAAGTAAACAACAACGAGTAAAAGTAATACAATACAG 5'

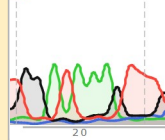
GTAAAAGTAATACAATACAG
Primer 2

TGGATAAAGTTTTGCATGATACTTGATTTGTTGTTGCTCATTTTCATTATGTTATGTC

1 → TGGATAAAGTTTTGCATGATACTTGATTTGTTGTTGCTCATTT



2 ← TGGATAAAGTTT



TGGATAAAGTTTTGCATGATACTTGATTTGTTGTTGCTCATTTTCATTATGTTATGTC 3'
ACCTATTTCAAACGTAAGTAAACAACAACGAGTAAAAGTAATACAATACAG 5' (P)

GTAAAAGTAATACAATACAG
Primer 2

TGGATAAAGTTTTGCATGATACTTGATTTGTTGTTGCCATTTTCATTATGTTATGTC 3'
ACCTATTTCAAACGTAAGTAAACAACAACGGTAAAAGTAATACAATACAG 5' (P)

GTAAAAGTAATACAATACAG
Primer 2

TAGATAAAGTTCTTCATGATACTTGTTTGTGTTGCTCATTTTCATTATGTTATGTC 3'
ATCTATTTCAAAGAGTAAACAACAACGAGTAAAAGTAATACAATACAG 5' (P)

GTAAAAGTAATACAATACAG
Primer 2

6 → TAGATAAAGTTCTTCATGATACTTGTTTGTGTTGCTCATTTTCATTATGTCATGTC

7 → TAGATAAAGTTCTTCATGATACTTGATTTGTTGTTGCTCATTTTCATTATGTTATGTC

8 → TAGATAAAGTTTACATGATACTTGTTTGTGTTGCTCATTTTCATTATGTTATGTC

9 → TAGATAAAGTTCTTCATGATACTTGATTTGTAGTTGCTCATTTTCATTATGTTATGTC

10 → TAGATAAAGTTATACATGATACTTGATTTGTTGTTGCTCATTTTCATTATGTCATGTC

11 → TGGATAATGTTTTACATGATACTTGATTTGTTGTTGCTCATTTTCATTATGTTATGTC

12 → TGGATAAAGTTCTTCATGATACTTGATTTGTTGTTGCTCATTTTCATTATGTTATGTC

13 → TAGATAAAGTTTACATGATACTTGATTTGTTGTTGCTCATTTTCATTATGTTATGTC

14 → TGGATAAAGTTCTTCATGATACTTGATTTGTTGTTGCTCATTTTCATTATGTCATGTC

15 → TAGATAAAGTTTACATGATACTTGATTTGTTGAGGTCATTTTCATTATGTCATGTC





16 → TAGATAAAGTTCTTCATGATACTTGATTTGTAGTTGCCATTTTCATTATGTTATGTC

17 → TGGATAAAGTTTACATGATACTTGTTTGTGTTGCTCATTTTCATTATGTCATGTC

18 → TGGATAAAGTTCTTCATGATACTTGTTTGTGTTGCTCATTTTCATTATGTTATGTC

Original Sequence: Case proglottids_COX1_Tsag_COX1F+Tae_COX1R_827bp.dna

- 1: Case proglottids_COX1_Tsag_COX1F_Original Sequencing Chromatograms ➡
804 bases
28 .. 785
- 2: Case proglottids_COX1_Tae_COX1R_Original Sequencing Chromatograms ⬅
799 bases
14 .. 776 (1 gap)
- 3: Taenia saginata_COX1_RefSeq=NC_009938.1 ➡
1620 bases
322 .. 1148 (1 mismatch)
- 4: Taenia asiatica_COX1_RefSeq=NC_004826.2 ➡
1620 bases
322 .. 1148 (33 mismatches)
- 5: Taenia solium_COX1_RefSeq=NC_004022.1 ➡
1620 bases
326 .. 1148 (106 mismatches, 2 gaps)
- 6: Taenia arctos_COX1_RefSeq=NC_024590.1 ➡
1620 bases
322 .. 1148 (95 mismatches)
- 7: Taenia crassiceps_COX1_RefSeq=NC_002547.1 ➡
1614 bases
350 .. 1148 (103 mismatches, 6 gaps)
- 8: Taenia crocutae_COX1_RefSeq=NC_024591.1 ➡
1620 bases
322 .. 1148 (53 mismatches)
- 9: Taenia hydatigena_COX1_RefSeq=NC_012896.1 ➡
1620 bases
328 .. 1148 (104 mismatches)
- 10: Taenia laticollis_COX1_RefSeq=NC_021140.1 ➡
1620 bases
326 .. 1148 (113 mismatches, 2 gaps)
- 11: Taenia madoquae_COX1_RefSeq=NC_021139.1 ➡
1623 bases
322 .. 1148 (68 mismatches)
- 12: Taenia martis_COX1_RefSeq=NC_020153.1 ➡
1620 bases
350 .. 1148 (105 mismatches, 4 gaps)
- 13: Taenia multiceps_COX1_RefSeq=NC_012894.1 ➡
1623 bases
253 .. 1148 (58 mismatches, 1 gap)
- 14: Taenia ovis_COX1_RefSeq=NC_021138.1 ➡
1620 bases
322 .. 1148 (85 mismatches)
- 15: Taenia pisiformis_COX1_RefSeq=NC_013844.1 ➡
1620 bases
350 .. 1148 (114 mismatches)
- 16: Taenia regis_COX1_RefSeq=NC_024589.1 ➡
1620 bases
253 .. 1148 (115 mismatches, 1 gap)
- 17: Taenia serialis_COX1_RefSeq=NC_021457.1 ➡
1623 bases
253 .. 1148 (57 mismatches, 1 gap)
- 18: Taenia twitchelli_COX1_RefSeq=NC_021093.1 ➡
1620 bases
350 .. 1148 (107 mismatches, 2 gaps)

Primer		Length		Binding Sites		Tm
✓	Primer 1	27-mer		1 .. 27		58°C
/sequence		= TTGATTCCCTTCGATGGCTTTTCTTTTG 37% GC / 8219.4 Da				
✓	Primer 2	20-mer		808 .. 827		44°C
/sequence		= GACATAACATAATGAAAATG 25% GC / 6166.1 Da				