

[illegible]

6) TcruziEsmeraldo missing Y: Ara and tse did not agree on the functional class. **Tse reported Y, Ara reported N**

```
> integrated_tse_ara[integrated_tse_ara$sourceOrg=="TcruziEsmeraldo" & integrated_tse_ara$tsefunc=="Y",]
      geneid      sourceOrg tseidentity araidentity direction tsebegin tseend arabegin araend tseac araac sourceseq tsescore arascore
3335 TcruziEsmeraldo_KB205716.1_74 TcruziEsmeraldo      Tyr      Asn      -    118619 118704    118619 118704    GTA (gtt) KB205716.1    72.3    108.4
      tsegeneseq
3335 CCTTCTGTAGCTCAATTGGTAGAGCATGTGACTGTAGAacttcggcagtaATCACAGGGTCGCTGGTTCGATTCCGGCCGGAAGGA ccttctgtagctcaattggtagagcatgtgactgtagaatttcggcagtaatcacagggtcgctggttcgattccggccggaagga
      tsegenes
3335 >>>>>>.....<<<<<<>>>>.....<<<<<<>>>>.....<<<<<<<<<<. ((((((( ((ddddd))) ((((( AAAAAAAAAA ))))) (((((((tttttt))))))))))
      tseintronbegin tseintronend araintronbegin araintronend tseacloc source50 tsenote aranote foundby arafunc tsefunc
3335 118655 118667 36 49 34-36 supercontig notfound both N Y
```

7) TcruziSylvioX10-1-2012 missing Y: Ara and tse did not agree on the functional class. **Tse reported Y, Ara reported N**

```
> integrated_tse_ara[integrated_tse_ara$sourceOrg=="TcruziSylvioX10-1-2012" & integrated_tse_ara$tsefunc=="Y",]
      geneid      sourceOrg tseidentity araidentity direction tsebegin tseend arabegin araend tseac araac sourceseq tsescore arascore
5154 TcruziSylvioX10-1-2012_ADWP02013766_42 TcruziSylvioX10-1-2012      Tyr      Asn      -    2174 2259    2174 2259    GTA (gtt) ADWP02013766    72.3    108.4
      tsegeneseq
5154 CCTTCTGTAGCTCAATTGGTAGAGCATGTGACTGTAGAacttcggcagtaATCACAGGGTCGCTGGTTCGATTCCGGCCGGAAGGA ccttctgtagctcaattggtagagcatgtgactgtagaacttcggcagtaatcacagggtcgctggttcgattccggccggaagga
      tsegenes
5154 >>>>>>.....<<<<<<>>>>.....<<<<<<>>>>.....<<<<<<<<<<. ((((((( ((ddddd))) ((((( AAAAAAAAAA ))))) (((((((tttttt))))))))))
      tseintronbegin tseintronend araintronbegin araintronend tseacloc source50 tsenote aranote foundby arafunc tsefunc
5154 2210 2222 36 49 34-36 contig notfound both N Y
```

8) TcruzimarinkelleiB7 missing Y and W: Both Y and W were found only by ara and not tse

9) TcruziCLBrenerEsmeraldo-like missing Y: Ara and tse did not agree on the functional class. **Tse reported Y, Ara reported N**

9) TcruziCLBrenerNon-Esmeraldo-like missing Y: Ara and tse did not agree on the functional class. **Tse reported Y, Ara reported N**

Conclusions: Apparently the main reason for Y being missed is ARA and TSE not agreeing on the functional class of the tRNA genes found by both of them. This is the result of their intron displacement in anticodon loop which seems to be only one base.