INPUT FILES:

- ***Ab initio* gene predictions:** this document contains 2000 predicted genes.


```
ab_inition_prediction.gff3: Bloc de notas                                    —    □    ×
Archivo  Edición  Formato  Ver  Ayuda
# This output was generated with AUGUSTUS (version 3.4.0).
# AUGUSTUS is a gene prediction tool written by M. Stanke (mario.stanke@uni-greifswald.de),
# O. Keller, S. König, L. Gerischer, L. Romoth and Katharina Hoff.
# Please cite: Mario Stanke, Mark Diekhans, Robert Baertsch, David Haussler (2008),
# Using native and syntenically mapped cDNA alignments to improve de novo gene finding
# Bioinformatics 24: 637-644, doi 10.1093/bioinformatics/btn013
# No extrinsic information on sequences given.
# Sources of extrinsic information: M RM
# Initializing the parameters using config directory /opt/augustus-3.4.0/config/ ...
# maize version. Using default transition matrix.
# Looks like /home/soporte/afrodita2/DATOS/onionmap.fasta is in fasta format.
# We have hints for 0 sequences and for 0 of the sequences in the input set.
#
# ----- prediction on sequence number 1 (length = 473106744, name = chr1) -----
#
# Predicted genes for sequence number 1 on both strands
# start gene g1
chr1    AUGUSTUS        gene       21222   25589   0.1     +       .       g1
chr1    AUGUSTUS        transcript 21222   25589   0.1     +       .       g1.t1
chr1    AUGUSTUS        CDS        21222   22254   0.26    +       0       transcript_id "g1.t1"; gene_id "g1";
chr1    AUGUSTUS        CDS        22339   22401   0.63    +       2       transcript_id "g1.t1"; gene_id "g1";
chr1    AUGUSTUS        CDS        25402   25589   0.73    +       2       transcript_id "g1.t1"; gene_id "g1";
# coding sequence = [atgagtcgaagggggagaccagctgctagggaaggtcgtgctgctagggaagctgttgattatgctcctatgtttgagg
# ccatgatgacttcgatcatgagaaggataccagcttcagggccatcagtggatgttggagttcaagttcaagctccaagaccagtggattttgctaag
# ctttgcaaggactatacttctcttggaggaaaggttttcttgggaacggaatcgaccattgaagtgcagagatggatagatgcttgtagaaggatttt
# tggtgacttgggaattgaggatgcaactaagaggaagctcgcatcaaggcaacttcaagggagagcttcggattggtggaattctatcaccattgata
# ctccggaagaggagattacttgggagcaattccaagttagatttgaagctaagttcatctctacggctcagaaatctgttctgtttaagaagtttgtg
# gagctcaagcaaggtggaagacccgttcttgagtatgtttctgagtttgaagctttgtccaagtatgccagatcgtatattgattctccctatcagaa
# gaatgagaagtttgtgactggtttggattcttatcttggaagacagttggtggatcatctggatgatccgtttgagaagcttgtggagaaagctctca
# ggcatgagaatttgtttcctagggagagttctgttgttgctgtaaccaaggaagggtttaagccacagaagggtggaaacaagaagaggaagcaacag
# caacagaagggtaaggatggccagaagaagccgaggggcgaaatgacttgctataattgccaacagaagggccatctctccaaggattgtaggaatcc
# aaaggcgccggcgaaatgccacaactgtgacaagccagggcattttaggaaagattgtccagaaccgaggaaggacaggcagattgtgcaagcttatg
# ctttgggagctgtgccgtcgtcttcaaaagctcctactgctgaagagaaggggaagagtgtggtggttcaaggccggttaggtttggaaccggatatt
# gttgataggccattggttgtgactaatccagttggggatttagaggttgatccagtggttacgaaacctcgtaagccgcttcgtgttgttgaaactga
# cacgaaacagcttaggaggaagacgattacgttgctcaaggtacaatggagtgatgatgttaacgactgtacatgggaggaggaagagaggatgaagg
# cagctcgtcctgaactcttcaaggtatag]
# protein sequence = [MSRRGRPAAREGRAAREAVDYAPMFEAMMTSIMRRIPASGPSVDVGVQVQAPRPVDFAKLCKDYTSLGGKVFLGTEST
# IEVQRWIDACRRIFGDLGIEDATKRKLASRQLQGRASDWWNSITIDTPEEEITWEQFQVRFEAKFISTAQKSVLFKKFVELKQGGRPVLEYVSEFEAL
# SKYARSYIDSPYQKNEKFVTGLDSYLGRQLVDHLDDPFEKLVEKALRHENLFPRESSVVAVTKEGFKPQKGGNKKRKQQQQKGKDGQKKPRGEMTCYN
# CQQKGHLSKDCRNPKAPAKCHNCDKPGHFRKDCPEPRKDRQIVQAYALGAVPSSSKAPTAEEKGKSVVVQGRLGLEPDIVDRPLVVTNPVGDLEVDPV
# VTKPRKPLRVVETDTKQLRRKTITLLKVQWSDDVNDCTWEEEERMKAARPELFKV]
# Evidence for and against this transcript:
# % of transcript supported by hints (any source): 0
# CDS exons: 0/3
# CDS introns: 0/2
# 5'UTR exons and introns: 0/0
# 3'UTR exons and introns: 0/0
# hint groups fully obeyed: 0
# incompatible hint groups: 0
# end gene g1
###
# start gene g2
chr1    AUGUSTUS        gene       274910  279185  0.54    +       .       g2
chr1    AUGUSTUS        transcript 274910  279185  0.54    +               g2.t1
                                                      Línea 1, columna 1   100%   Windows (CRLF)   UTF-8
```

- **transcripts_alignments:** are 3 different documents that I enter all three at the same time with the parameter "--transcript_alignments". All of them contain 2000 prediction lines.

benquerencia.gff3: Bloc de notas

Archivo   Edición   Formato   Ver   Ayuda

```
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    125758  126038   .    +    .    ID=align_252930;Target=asmbl_1 1 281 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    173745  174025   .    -    .    ID=align_252931;Target=asmbl_2 431 711 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    179905  180334   .    -    .    ID=align_252931;Target=asmbl_2 1 430 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    751695  752256   .    +    .    ID=align_252932;Target=asmbl_3 1 562 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    907117  907327   .    +    .    ID=align_252933;Target=asmbl_4 1 211 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    907815  907884   .    +    .    ID=align_252933;Target=asmbl_4 212 281 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    908258  908853   .    +    .    ID=align_252933;Target=asmbl_4 282 877 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    907117  907327   .    +    .    ID=align_252934;Target=asmbl_5 1 211 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    907815  907884   .    +    .    ID=align_252934;Target=asmbl_5 212 281 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    908121  908853   .    +    .    ID=align_252934;Target=asmbl_5 282 1014 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    908016  908853   .    +    .    ID=align_252935;Target=asmbl_6 1 838 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1100423 1100656  .    +    .    ID=align_252936;Target=asmbl_7 1 234 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1106678 1106723  .    +    .    ID=align_252937;Target=asmbl_8 1 46 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1106910 1106948  .    +    .    ID=align_252937;Target=asmbl_8 47 85 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1107162 1107278  .    +    .    ID=align_252937;Target=asmbl_8 86 202 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1464186 1464652  .    +    .    ID=align_252938;Target=asmbl_9 1 467 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1807256 1808519  .    +    .    ID=align_252939;Target=asmbl_10 1 1264 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1809125 1809212  .    +    .    ID=align_252939;Target=asmbl_10 1265 1352 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1809455 1809515  .    +    .    ID=align_252939;Target=asmbl_10 1353 1413 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1811361 1811502  .    +    .    ID=align_252939;Target=asmbl_10 1414 1555 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1811584 1811700  .    +    .    ID=align_252939;Target=asmbl_10 1556 1672 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1812623 1812794  .    +    .    ID=align_252939;Target=asmbl_10 1673 1844 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1813607 1813669  .    +    .    ID=align_252939;Target=asmbl_10 1845 1907 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1814586 1815440  .    +    .    ID=align_252939;Target=asmbl_10 1908 2762 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1807256 1808519  .    +    .    ID=align_252940;Target=asmbl_11 1 1264 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1809125 1809212  .    +    .    ID=align_252940;Target=asmbl_11 1265 1352 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1809455 1809515  .    +    .    ID=align_252940;Target=asmbl_11 1353 1413 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1811361 1811502  .    +    .    ID=align_252940;Target=asmbl_11 1414 1555 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1811584 1811700  .    +    .    ID=align_252940;Target=asmbl_11 1556 1672 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1812623 1813669  .    +    .    ID=align_252940;Target=asmbl_11 1673 2719 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1814586 1815440  .    +    .    ID=align_252940;Target=asmbl_11 2720 3574 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1799810 1799930  .    +    .    ID=align_252941;Target=asmbl_12 1 121 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1800047 1800766  .    +    .    ID=align_252941;Target=asmbl_12 122 841 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1805240 1805713  .    +    .    ID=align_252941;Target=asmbl_12 842 1315 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1805975 1806175  .    +    .    ID=align_252941;Target=asmbl_12 1316 1516 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1807876 1808519  .    +    .    ID=align_252941;Target=asmbl_12 1517 2160 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1809125 1809212  .    +    .    ID=align_252941;Target=asmbl_12 2161 2248 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1809455 1809515  .    +    .    ID=align_252941;Target=asmbl_12 2249 2309 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1811361 1811502  .    +    .    ID=align_252941;Target=asmbl_12 2310 2451 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1811584 1811700  .    +    .    ID=align_252941;Target=asmbl_12 2452 2568 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1812623 1812794  .    +    .    ID=align_252941;Target=asmbl_12 2569 2740 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1813607 1813669  .    +    .    ID=align_252941;Target=asmbl_12 2741 2803 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1814586 1815440  .    +    .    ID=align_252941;Target=asmbl_12 2804 3658 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1799810 1799930  .    +    .    ID=align_252942;Target=asmbl_13 1 121 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1800047 1800766  .    +    .    ID=align_252942;Target=asmbl_13 122 841 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1805240 1805713  .    +    .    ID=align_252942;Target=asmbl_13 842 1315 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1805975 1806175  .    +    .    ID=align_252942;Target=asmbl_13 1316 1516 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1807876 1808519  .    +    .    ID=align_252942;Target=asmbl_13 1517 2160 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1809125 1809212  .    +    .    ID=align_252942;Target=asmbl_13 2161 2248 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1809455 1809515  .    +    .    ID=align_252942;Target=asmbl_13 2249 2309 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1811361 1811502  .    +    .    ID=align_252942;Target=asmbl_13 2310 2451 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1811584 1811700  .    +    .    ID=align_252942;Target=asmbl_13 2452 2568 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1812623 1813669  .    +    .    ID=align_252942;Target=asmbl_13 2569 3615 +
chr1    assembler-BENQUERENCIA.sqlite    cDNA_match    1814586 1815440  .    +    .    ID=align_252942;Target=asmbl_13 3616 4470 +
```

bra.gff3: Bloc de notas

```
chr1    assembler-bra.sqlite    cDNA_match    179950  180314  .    -    .    ID=align_282456;Target=asmbl_1 1 365 +
chr1    assembler-bra.sqlite    cDNA_match    751660  752249  .    +    .    ID=align_282457;Target=asmbl_2 1 590 +
chr1    assembler-bra.sqlite    cDNA_match    907124  907327  .    +    .    ID=align_282458;Target=asmbl_3 1 204 +
chr1    assembler-bra.sqlite    cDNA_match    907815  907884  .    +    .    ID=align_282458;Target=asmbl_3 205 274 +
chr1    assembler-bra.sqlite    cDNA_match    908121  908838  .    +    .    ID=align_282458;Target=asmbl_3 275 992 +
chr1    assembler-bra.sqlite    cDNA_match    907124  907327  .    +    .    ID=align_282459;Target=asmbl_4 1 204 +
chr1    assembler-bra.sqlite    cDNA_match    907815  908838  .    +    .    ID=align_282459;Target=asmbl_4 205 1228 +
chr1    assembler-bra.sqlite    cDNA_match    907124  907327  .    +    .    ID=align_282460;Target=asmbl_5 1 204 +
chr1    assembler-bra.sqlite    cDNA_match    907815  907884  .    +    .    ID=align_282460;Target=asmbl_5 205 274 +
chr1    assembler-bra.sqlite    cDNA_match    908258  908838  .    +    .    ID=align_282460;Target=asmbl_5 275 855 +
chr1    assembler-bra.sqlite    cDNA_match    907124  907327  .    +    .    ID=align_282461;Target=asmbl_6 1 204 +
chr1    assembler-bra.sqlite    cDNA_match    907463  907578  .    +    .    ID=align_282461;Target=asmbl_6 205 320 +
chr1    assembler-bra.sqlite    cDNA_match    907815  907884  .    +    .    ID=align_282461;Target=asmbl_6 321 390 +
chr1    assembler-bra.sqlite    cDNA_match    908258  908278  .    +    .    ID=align_282461;Target=asmbl_6 391 411 +
chr1    assembler-bra.sqlite    cDNA_match    1269881 1270806 .    -    .    ID=align_282462;Target=asmbl_7 1 926 +
chr1    assembler-bra.sqlite    cDNA_match    1416726 1416955 .    -    .    ID=align_282463;Target=asmbl_8 1 230 +
chr1    assembler-bra.sqlite    cDNA_match    1562683 1563215 .    -    .    ID=align_282464;Target=asmbl_9 1 533 +
chr1    assembler-bra.sqlite    cDNA_match    1561991 1562407 .    -    .    ID=align_282465;Target=asmbl_10 1 417 +
chr1    assembler-bra.sqlite    cDNA_match    1563345 1564668 .    +    .    ID=align_282466;Target=asmbl_11 1 1324 +
chr1    assembler-bra.sqlite    cDNA_match    1561581 1561820 .    -    .    ID=align_282467;Target=asmbl_12 1 240 +
chr1    assembler-bra.sqlite    cDNA_match    1561707 1561777 .    -    .    ID=align_282468;Target=asmbl_13 514 584 +
chr1    assembler-bra.sqlite    cDNA_match    1564592 1565104 .    -    .    ID=align_282468;Target=asmbl_13 1 513 +
chr1    assembler-bra.sqlite    cDNA_match    1582001 1582226 .    -    .    ID=align_282469;Target=asmbl_14 1 226 +
chr1    assembler-bra.sqlite    cDNA_match    1800051 1800766 .    +    .    ID=align_282470;Target=asmbl_15 1 716 +
chr1    assembler-bra.sqlite    cDNA_match    1805240 1805474 .    +    .    ID=align_282470;Target=asmbl_15 717 951 +
chr1    assembler-bra.sqlite    cDNA_match    1799791 1799930 .    +    .    ID=align_282471;Target=asmbl_16 1 140 +
chr1    assembler-bra.sqlite    cDNA_match    1800047 1800109 .    +    .    ID=align_282471;Target=asmbl_16 141 203 +
chr1    assembler-bra.sqlite    cDNA_match    1800344 1800766 .    +    .    ID=align_282471;Target=asmbl_16 204 626 +
chr1    assembler-bra.sqlite    cDNA_match    1805240 1805474 .    +    .    ID=align_282471;Target=asmbl_16 627 861 +
chr1    assembler-bra.sqlite    cDNA_match    1799791 1800046 .    +    .    ID=align_282472;Target=asmbl_17 1 256 +
chr1    assembler-bra.sqlite    cDNA_match    1806154 1807147 .    +    .    ID=align_282473;Target=asmbl_18 1 994 +
chr1    assembler-bra.sqlite    cDNA_match    1807148 1807931 .    +    .    ID=align_282474;Target=asmbl_19 1 784 +
chr1    assembler-bra.sqlite    cDNA_match    1813697 1814533 .    +    .    ID=align_282475;Target=asmbl_20 1 837 +
chr1    assembler-bra.sqlite    cDNA_match    1808364 1808519 .    +    .    ID=align_282476;Target=asmbl_21 1 156 +
chr1    assembler-bra.sqlite    cDNA_match    1809125 1809212 .    +    .    ID=align_282476;Target=asmbl_21 157 244 +
chr1    assembler-bra.sqlite    cDNA_match    1809455 1809515 .    +    .    ID=align_282476;Target=asmbl_21 245 305 +
chr1    assembler-bra.sqlite    cDNA_match    1811361 1811502 .    +    .    ID=align_282476;Target=asmbl_21 306 447 +
chr1    assembler-bra.sqlite    cDNA_match    1811584 1811700 .    +    .    ID=align_282476;Target=asmbl_21 448 564 +
chr1    assembler-bra.sqlite    cDNA_match    1812623 1813669 .    +    .    ID=align_282476;Target=asmbl_21 565 1611 +
chr1    assembler-bra.sqlite    cDNA_match    1814586 1815475 .    +    .    ID=align_282476;Target=asmbl_21 1612 2501 +
chr1    assembler-bra.sqlite    cDNA_match    1808364 1808519 .    +    .    ID=align_282477;Target=asmbl_22 1 156 +
chr1    assembler-bra.sqlite    cDNA_match    1809125 1809212 .    +    .    ID=align_282477;Target=asmbl_22 157 244 +
chr1    assembler-bra.sqlite    cDNA_match    1809455 1809515 .    +    .    ID=align_282477;Target=asmbl_22 245 305 +
chr1    assembler-bra.sqlite    cDNA_match    1811361 1811502 .    +    .    ID=align_282477;Target=asmbl_22 306 447 +
chr1    assembler-bra.sqlite    cDNA_match    1811584 1811700 .    +    .    ID=align_282477;Target=asmbl_22 448 564 +
chr1    assembler-bra.sqlite    cDNA_match    1812623 1812794 .    +    .    ID=align_282477;Target=asmbl_22 565 736 +
chr1    assembler-bra.sqlite    cDNA_match    1813607 1813669 .    +    .    ID=align_282477;Target=asmbl_22 737 799 +
chr1    assembler-bra.sqlite    cDNA_match    1814586 1815475 .    +    .    ID=align_282477;Target=asmbl_22 800 1689 +
chr1    assembler-bra.sqlite    cDNA_match    1809498 1809994 .    +    .    ID=align_282478;Target=asmbl_23 1 497 +
chr1    assembler-bra.sqlite    cDNA_match    1810350 1810586 .    -    .    ID=align_282479;Target=asmbl_24 1 237 +
chr1    assembler-bra.sqlite    cDNA_match    1945359 1946635 .    +    .    ID=align_282480;Target=asmbl_25 1 1277 +
chr1    assembler-bra.sqlite    cDNA_match    2699650 2700230 .    +    .    ID=align_282481;Target=asmbl_26 1 581 +
chr1    assembler-bra.sqlite    cDNA_match    2708302 2708524 .    +    .    ID=align_282481;Target=asmbl_26 582 804 +
chr1    assembler-bra.sqlite    cDNA_match    2708829 2708993 .    +    .    ID=align_282481;Target=asmbl_26 805 969 +
```

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chr1	assembler-temprana.sqlite	cDNA_match	122374	122590	.	-	.	ID=align_286200;Target=asmbl_1 1 217 +
chr1	assembler-temprana.sqlite	cDNA_match	169795	170085	.	+	.	ID=align_286201;Target=asmbl_2 1 291 +
chr1	assembler-temprana.sqlite	cDNA_match	173679	174025	.	-	.	ID=align_286202;Target=asmbl_3 398 744 +
chr1	assembler-temprana.sqlite	cDNA_match	179905	180301	.	-	.	ID=align_286202;Target=asmbl_3 1 397 +
chr1	assembler-temprana.sqlite	cDNA_match	174300	174559	.	-	.	ID=align_286203;Target=asmbl_4 1 260 +
chr1	assembler-temprana.sqlite	cDNA_match	175033	175257	.	+	.	ID=align_286204;Target=asmbl_5 1 225 +
chr1	assembler-temprana.sqlite	cDNA_match	177938	178177	.	-	.	ID=align_286205;Target=asmbl_6 1 240 +
chr1	assembler-temprana.sqlite	cDNA_match	751619	752267	.	+	.	ID=align_286206;Target=asmbl_7 1 649 +
chr1	assembler-temprana.sqlite	cDNA_match	907185	907327	.	+	.	ID=align_286207;Target=asmbl_8 1 143 +
chr1	assembler-temprana.sqlite	cDNA_match	907815	907884	.	+	.	ID=align_286207;Target=asmbl_8 144 213 +
chr1	assembler-temprana.sqlite	cDNA_match	908121	908848	.	+	.	ID=align_286207;Target=asmbl_8 214 941 +
chr1	assembler-temprana.sqlite	cDNA_match	907185	907327	.	+	.	ID=align_286208;Target=asmbl_9 1 143 +
chr1	assembler-temprana.sqlite	cDNA_match	907815	907884	.	+	.	ID=align_286208;Target=asmbl_9 144 213 +
chr1	assembler-temprana.sqlite	cDNA_match	908258	908848	.	+	.	ID=align_286208;Target=asmbl_9 214 804 +
chr1	assembler-temprana.sqlite	cDNA_match	907815	908848	.	-	.	ID=align_286209;Target=asmbl_10 1 1034 +
chr1	assembler-temprana.sqlite	cDNA_match	1105942	1106159	.	+	.	ID=align_286210;Target=asmbl_11 1 218 +
chr1	assembler-temprana.sqlite	cDNA_match	1269887	1270581	.	+	.	ID=align_286211;Target=asmbl_12 1 695 +
chr1	assembler-temprana.sqlite	cDNA_match	1271423	1272063	.	-	.	ID=align_286212;Target=asmbl_13 1 641 +
chr1	assembler-temprana.sqlite	cDNA_match	1417430	1417636	.	+	.	ID=align_286213;Target=asmbl_14 1 207 +
chr1	assembler-temprana.sqlite	cDNA_match	1804691	1805281	.	+	.	ID=align_286214;Target=asmbl_15 1 591 +
chr1	assembler-temprana.sqlite	cDNA_match	1799794	1799930	.	+	.	ID=align_286215;Target=asmbl_16 1 137 +
chr1	assembler-temprana.sqlite	cDNA_match	1800047	1800109	.	+	.	ID=align_286215;Target=asmbl_16 138 200 +
chr1	assembler-temprana.sqlite	cDNA_match	1800344	1800766	.	+	.	ID=align_286215;Target=asmbl_16 201 623 +
chr1	assembler-temprana.sqlite	cDNA_match	1805240	1805295	.	+	.	ID=align_286215;Target=asmbl_16 624 679 +
chr1	assembler-temprana.sqlite	cDNA_match	1799794	1799930	.	+	.	ID=align_286216;Target=asmbl_17 1 137 +
chr1	assembler-temprana.sqlite	cDNA_match	1800047	1800766	.	+	.	ID=align_286216;Target=asmbl_17 138 857 +
chr1	assembler-temprana.sqlite	cDNA_match	1805240	1805295	.	+	.	ID=align_286216;Target=asmbl_17 858 913 +
chr1	assembler-temprana.sqlite	cDNA_match	1799794	1800766	.	+	.	ID=align_286217;Target=asmbl_18 1 973 +
chr1	assembler-temprana.sqlite	cDNA_match	1805240	1805295	.	+	.	ID=align_286217;Target=asmbl_18 974 1029 +
chr1	assembler-temprana.sqlite	cDNA_match	1800915	1801334	.	-	.	ID=align_286218;Target=asmbl_19 1 420 +
chr1	assembler-temprana.sqlite	cDNA_match	1801404	1801706	.	-	.	ID=align_286219;Target=asmbl_20 1 303 +
chr1	assembler-temprana.sqlite	cDNA_match	1807143	1808519	.	+	.	ID=align_286220;Target=asmbl_21 1 1377 +
chr1	assembler-temprana.sqlite	cDNA_match	1809125	1809212	.	+	.	ID=align_286220;Target=asmbl_21 1378 1465 +
chr1	assembler-temprana.sqlite	cDNA_match	1809455	1809515	.	+	.	ID=align_286220;Target=asmbl_21 1466 1526 +
chr1	assembler-temprana.sqlite	cDNA_match	1811361	1811502	.	+	.	ID=align_286220;Target=asmbl_21 1527 1668 +
chr1	assembler-temprana.sqlite	cDNA_match	1811584	1811700	.	+	.	ID=align_286220;Target=asmbl_21 1669 1785 +
chr1	assembler-temprana.sqlite	cDNA_match	1812623	1812794	.	+	.	ID=align_286220;Target=asmbl_21 1786 1957 +
chr1	assembler-temprana.sqlite	cDNA_match	1813607	1813669	.	+	.	ID=align_286220;Target=asmbl_21 1958 2020 +
chr1	assembler-temprana.sqlite	cDNA_match	1814586	1815609	.	+	.	ID=align_286220;Target=asmbl_21 2021 3044 +
chr1	assembler-temprana.sqlite	cDNA_match	1807143	1808519	.	+	.	ID=align_286221;Target=asmbl_22 1 1377 +
chr1	assembler-temprana.sqlite	cDNA_match	1809125	1809212	.	+	.	ID=align_286221;Target=asmbl_22 1378 1465 +
chr1	assembler-temprana.sqlite	cDNA_match	1809455	1809515	.	+	.	ID=align_286221;Target=asmbl_22 1466 1526 +
chr1	assembler-temprana.sqlite	cDNA_match	1811361	1811502	.	+	.	ID=align_286221;Target=asmbl_22 1527 1668 +
chr1	assembler-temprana.sqlite	cDNA_match	1811584	1811700	.	+	.	ID=align_286221;Target=asmbl_22 1669 1785 +
chr1	assembler-temprana.sqlite	cDNA_match	1812623	1813669	.	+	.	ID=align_286221;Target=asmbl_22 1786 2832 +
chr1	assembler-temprana.sqlite	cDNA_match	1814586	1815609	.	+	.	ID=align_286221;Target=asmbl_22 2833 3856 +
chr1	assembler-temprana.sqlite	cDNA_match	1805502	1805713	.	+	.	ID=align_286222;Target=asmbl_23 1 212 +
chr1	assembler-temprana.sqlite	cDNA_match	1805975	1806175	.	+	.	ID=align_286222;Target=asmbl_23 213 413 +
chr1	assembler-temprana.sqlite	cDNA_match	1807876	1808519	.	+	.	ID=align_286222;Target=asmbl_23 414 1057 +
chr1	assembler-temprana.sqlite	cDNA_match	1809125	1809212	.	+	.	ID=align_286222;Target=asmbl_23 1058 1145 +
chr1	assembler-temprana.sqlite	cDNA_match	1809455	1809515	.	+	.	ID=align_286222;Target=asmbl_23 1146 1206 +
chr1	assembler-temprana.sqlite	cDNA_match	1811361	1811502	.	+	.	ID=align_286222;Target=asmbl_23 1207 1348 +
chr1	assembler-temprana.sqlite	cDNA_match	1811584	1811700	.	+	.	ID=align_286222;Target=asmbl_23 1349 1465 +
chr1	assembler-temprana.sqlite	cDNA_match	1812623	1812794	.	+	.	ID=align_286222;Target=asmbl_23 1466 1637 +
```

- **genome:** as reference genome I use only the sequence of one chromosome, since all ab initio predictions, and all PASA alignments of the samples used correspond to chromosome 1.

```
>chr1
GAAATAATAAAGGAGATTAAAGACGTTTTAAAGAATAATATAAATTGAATTATATTAAGAGATTTATAAATGGATATTTATAAATTGAAACATTGAAATTATAA
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TTGTAAACGAATAAATTATAAGTATTTGACTTATAATATGAACCTTTGTTTTATAATTGAGTTATAAATTGAATAGGTTAATAAAGGAATTTATAAAAGGAAGT
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AATAGTTAAGATGTATTTTTAATATCACTAAAATTTGATTATTGAGAATTTGGTTTTCAATTGGAAATTTAAAGTGTAACTTATTGAAGGAATATCCTATTTAT
```

- **weights file:** this text file contains the weights for the PASA alignments, and for the augustus ab initio predictions. It is a tabular file although it has a txt extension.

weights.txt: Bloc de notas

Archivo   Edición   Formato   Ver   Ayuda

```
ABINITIO_PREDICTION        augustus        1
TRANSCRIPT        PASA_transcript_assemblies        10
```

The initial execution command I use is as follows:

```
(base) soporte@srvapp02:~/BIOINFOR/EvidenceModeler/prueba1$ /home/soporte/sw_instalado/EVidenceModeler-1
.1.1/EvmUtils/partition_EVM_inputs.pl --genome chr1.fasta --gene_predictions ab_inition_prediction.gff3
--transcript_alignments temprana.gff3 benquerencia.gff3 bra.gff3 --segmentSize 40000 --overlapSize 1000
--partition_listing partitions_list.out
```