

Bioinformatics

Modulo 8

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- [https://ncbi.nlm.nih.gov/orffinder/](#)

ORFfinder

PubMed [] Search

Open Reading Frame Viewer

Chlamydomophila caviae GPIC, complete genome

ORFs found: 37 Genetic code: 1 Start codon: 'ATG' only
ORFs were calculated on the interval from 1 to 50000 nt

Label	Strand	Frame	Start	Stop	Length (nt aa)
ORF25	-	2	10964	7821	3144 1047
ORF37	-	1	14010	10945	3066 1021
ORF24	-	2	26432	23820	2613 870
ORF17	+	3	26589	29150	2562 853
ORF2	+	1	39754	42231	2478 825
ORF13	+	3	3243	5201	1959 652
ORF8	+	2	21725	23635	1911 636
ORF21	+	2	37412	35604	1809 602
ORF7	+	2	14009	15721	1713 570
ORF15	+	3	18594	20237	1644 547

Em seguida fiz o alinhamento global (*Figura 2*) e obtive o dotplot deste alinhamento (*Figura 3*)

Range 1: 1 to 51000		Graphics	Next Match	Previous Match
NW Score	Identities	Gaps	Strand	
-3062	27923/52641(53%)	3255/52641(6%)	Plus/Plus	
Query 1	CACATAGCAAAACACTCAAAGTTTTTCAGCAAAAAAGCTTGTGAAAAATGTTGACCG			60
Sbjct 1	TATATA---AATACTCTA-----			15
Query 61	CCTGTTCACAAAATAGGCATAACTTCCTGTTCTGAACAGTTTGAACAATCTGTAACAGAG			120
Sbjct	-----			
Query 121	TTATAAACAGTTTTTTCACAACTTTTTCTCTCGAAGAAATAAGTTATAAACATTTTCCA			180
Sbjct	-----			
Query 181	CACCACCTAAGAAGAAGAGACTAATAAATATCTCTAAGAATCTTCTCTGTGGGTGTGG			240
Sbjct 16	-----TCTTTTCTGAAGGTGTGG			34
Query 241	AAACTTTCGATAAGTGTGAACTTTATGACAAGACTTCCTCTACTCAAACGACCTCGAAG			300
Sbjct 35	AAAGTGTGAAGGATTTGTAATA---ATGAGCTCATTAGCCCTGCTTCGACGTCCTCGAAG			91
Query 301	AAATCGGAAAAGTGTGCTATTTCGATCTATGATTGAGAAACTAATATGGTTTCAAGTGA			360
Sbjct 92	GAATAGAAAAACCGCAGCTATCCGAGATTGGTGGCTGAACAGCTTTATTACCCCAAGA			151
Query 361	TCTAATTTGGCCTATTTTTCTTAAAGAAGGTTTCAGGAATTCGAGAAGAAATACCCAGTAT			420
Sbjct 152	TTTTATCTGCCCATTTTCGTTAAGGAAGGGAAGAATATTGCGAGGAAATAGAAAGTCT			211

Figura 2

A sinetesia dessas duas especies e' quase complete de acordo com a Figura 3. Que e' o Dot-Plot.

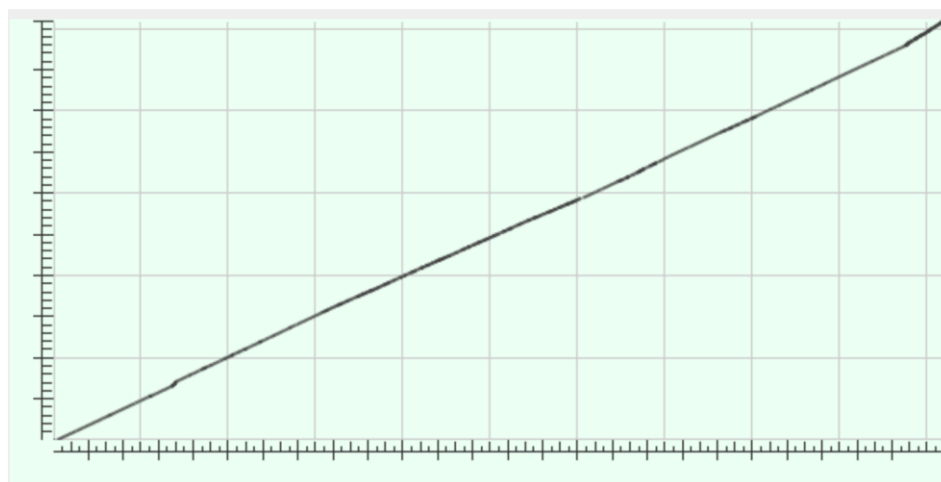


Figura 3

2.

