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URL: https://www.datamonkey.org/meme/5e72c12cf2d22859c642ac8f https://www.datamonkey.org/meme/5e72c12cf2d22859c642ac8f

Mixed Effects Model of Evolution results summary

INPUT DATA | 5e72c12cf2d22859c642ac8f | 39 sequences | 570 sites

≛ Export ▼

MEME **found evidence** of

• episodic positive/diversifying selection at 6 sites

with p-value threshold of 0.05

See **here** for more information about the MEME method.

Please cite **PMID 22807683** if you use this result in a publication, presentation, or other scientific work.

MEME Table

0

Sites that yielded a statistically significant result are highlighted in green.

Showing entries 1 through 20 out of 570.

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図 Export Table to CSV

	Site \$	Partition	α ‡	β- \$	p- \$	β⁺ ≑	p* \$	LRT \$	p- value ↓ , =	# branches under selection \$	Total branch length \$	MEME LogL ≑	FEL LogL ♦
476 1 1.11 0.00 0.97 114.01 0.03 6.82 0.01 1.00 0.74 -19.48 67 1 0.00 0.00 0.98 390.83 0.02 6.63 0.02 1.00 1.67 -17.11 297 1 1.51 0.00 0.92 32.22 0.08 5.86 0.02 2.00 0.73 -27.28 298 1 1.42 0.00 0.96 201.91 0.04 5.24 0.03 2.00 2.02 -23.98 442 1 0.00 0.00 0.98 488.83 0.02 4.30 0.05 1.00 2.11 -13.86 160 1 0.00 0.00 0.00 2.47 1.00 3.99 0.06 1.00 0.54 -20.56 474 1 0.00 0.00 0.94 77.59 0.06 4.08 0.06 2.00 0.49 -17.23 418 1 0.00 <td>72</td> <td>1</td> <td>0.00</td> <td>0.00</td> <td>0.97</td> <td>87.58</td> <td>0.03</td> <td>10.60</td> <td>0.00</td> <td>1.00</td> <td>0.56</td> <td>-16.11</td> <td>-11.70</td>	72	1	0.00	0.00	0.97	87.58	0.03	10.60	0.00	1.00	0.56	-16.11	-11.70
67 1 0.00 0.09 390.83 0.02 6.63 0.02 1.00 1.67 -17.11 297 1 1.51 0.00 0.92 32.22 0.08 5.86 0.02 2.00 0.73 -27.28 298 1 1.42 0.00 0.96 201.91 0.04 5.24 0.03 2.00 2.02 -23.98 442 1 0.00 0.00 0.98 488.83 0.02 4.30 0.05 1.00 2.11 -13.86 160 1 0.00 0.00 0.00 2.47 1.00 3.99 0.06 1.00 0.54 -20.56 474 1 0.00 0.00 0.94 77.59 0.06 4.08 0.06 2.00 0.99 -17.23 418 1 0.00 0.00 2.22 1.00 3.73 0.07 2.00 0.49 -19.17 18 1 0.00 0.00 0.64	421	1	0.00	0.00	0.93	52.69	0.07	9.73	0.00	2.00	0.81	-21.33	-18.00
297 1 1.51 0.00 0.92 32.22 0.08 5.86 0.02 2.00 0.73 -27.28 298 1 1.42 0.00 0.96 201.91 0.04 5.24 0.03 2.00 2.02 -23.98 442 1 0.00 0.00 0.98 488.83 0.02 4.30 0.05 1.00 2.11 -13.86 160 1 0.00 0.00 0.00 2.47 1.00 3.99 0.06 1.00 0.54 -20.56 474 1 0.00 0.00 0.94 77.59 0.06 4.08 0.06 2.00 0.99 -17.23 418 1 0.00 0.00 2.22 1.00 3.73 0.07 2.00 0.49 -19.17 18 1 0.00 0.00 0.94 65.12 0.06 3.44 0.08 2.00 0.88 -17.84 174 1 0.00 0.00	476	1	1.11	0.00	0.97	114.01	0.03	6.82	0.01	1.00	0.74	-19.48	-15.24
298 1 1.42 0.00 0.96 201.91 0.04 5.24 0.03 2.00 2.02 -23.98 442 1 0.00 0.00 0.98 488.83 0.02 4.30 0.05 1.00 2.11 -13.86 160 1 0.00 0.00 0.00 2.47 1.00 3.99 0.06 1.00 0.54 -20.56 474 1 0.00 0.00 0.94 77.59 0.06 4.08 0.06 2.00 0.99 -17.23 418 1 0.00 0.00 2.22 1.00 3.73 0.07 2.00 0.49 -19.17 18 1 0.00 0.00 0.94 65.12 0.06 3.44 0.08 2.00 0.88 -17.84 174 1 0.00 0.04 5.96 0.36 3.65 0.08 1.00 0.47 -21.43 233 1 1.72 0.00 0.98	67	1	0.00	0.00	0.98	390.83	0.02	6.63	0.02	1.00	1.67	-17.11	-13.79
442 1 0.00 0.00 0.98 488.83 0.02 4.30 0.05 1.00 2.11 -13.86 160 1 0.00 0.00 0.00 2.47 1.00 3.99 0.06 1.00 0.54 -20.56 474 1 0.00 0.00 0.94 77.59 0.06 4.08 0.06 2.00 0.99 -17.23 418 1 0.00 0.00 0.00 2.22 1.00 3.73 0.07 2.00 0.49 -19.17 18 1 0.00 0.00 0.94 65.12 0.06 3.44 0.08 2.00 0.88 -17.84 174 1 0.00 0.00 0.64 5.96 0.36 3.65 0.08 1.00 0.47 -21.43 233 1 1.72 0.00 0.98 420.44 0.02 3.25 0.09 1.00 1.96 -17.68	297	1	1.51	0.00	0.92	32.22	0.08	5.86	0.02	2.00	0.73	-27.28	-22.70
160 1 0.00 0.00 0.00 2.47 1.00 3.99 0.06 1.00 0.54 -20.56 474 1 0.00 0.00 0.94 77.59 0.06 4.08 0.06 2.00 0.99 -17.23 418 1 0.00 0.00 0.00 2.22 1.00 3.73 0.07 2.00 0.49 -19.17 18 1 0.00 0.00 0.94 65.12 0.06 3.44 0.08 2.00 0.88 -17.84 174 1 0.00 0.00 0.64 5.96 0.36 3.65 0.08 1.00 0.47 -21.43 233 1 1.72 0.00 0.98 420.44 0.02 3.25 0.09 1.00 1.96 -17.68	298	1	1.42	0.00	0.96	201.91	0.04	5.24	0.03	2.00	2.02	-23.98	-21.28
474 1 0.00 0.00 0.94 77.59 0.06 4.08 0.06 2.00 0.99 -17.23 418 1 0.00 0.00 0.00 2.22 1.00 3.73 0.07 2.00 0.49 -19.17 18 1 0.00 0.00 0.94 65.12 0.06 3.44 0.08 2.00 0.88 -17.84 174 1 0.00 0.00 0.64 5.96 0.36 3.65 0.08 1.00 0.47 -21.43 233 1 1.72 0.00 0.98 420.44 0.02 3.25 0.09 1.00 1.96 -17.68	442	1	0.00	0.00	0.98	488.83	0.02	4.30	0.05	1.00	2.11	-13.86	-12.14
418 1 0.00 0.00 0.00 2.22 1.00 3.73 0.07 2.00 0.49 -19.17 18 1 0.00 0.00 0.94 65.12 0.06 3.44 0.08 2.00 0.88 -17.84 174 1 0.00 0.00 0.64 5.96 0.36 3.65 0.08 1.00 0.47 -21.43 233 1 1.72 0.00 0.98 420.44 0.02 3.25 0.09 1.00 1.96 -17.68	160	1	0.00	0.00	0.00	2.47	1.00	3.99	0.06	1.00	0.54	-20.56	-20.56
18 1 0.00 0.09 0.94 65.12 0.06 3.44 0.08 2.00 0.88 -17.84 174 1 0.00 0.00 0.64 5.96 0.36 3.65 0.08 1.00 0.47 -21.43 233 1 1.72 0.00 0.98 420.44 0.02 3.25 0.09 1.00 1.96 -17.68	474	1	0.00	0.00	0.94	77.59	0.06	4.08	0.06	2.00	0.99	-17.23	-15.84
174 1 0.00 0.00 0.64 5.96 0.36 3.65 0.08 1.00 0.47 -21.43 233 1 1.72 0.00 0.98 420.44 0.02 3.25 0.09 1.00 1.96 -17.68	418	1	0.00	0.00	0.00	2.22	1.00	3.73	0.07	2.00	0.49	-19.17	-19.17
233 1 1.72 0.00 0.98 420.44 0.02 3.25 0.09 1.00 1.96 -17.68	18	1	0.00	0.00	0.94	65.12	0.06	3.44	0.08	2.00	0.88	-17.84	-17.07
	174	1	0.00	0.00	0.64	5.96	0.36	3.65	0.08	1.00	0.47	-21.43	-20.96
258	233	1	1.72	0.00	0.98	420.44	0.02	3.25	0.09	1.00	1.96	-17.68	-15.98
	258	1	0.00	0.00	0.00	2.78	1.00	3.26	0.09	2.00	0.61	-25.74	-25.74
477 1 1.71 0.00 0.95 171.71 0.05 3.29 0.09 2.00 2.01 -23.50	477	1	1.71	0.00	0.95	171.71	0.05	3.29	0.09	2.00	2.01	-23.50	-21.82
138	138	1	0.00	0.00	0.98	168.47	0.02	3.07	0.10	1.00	0.87	-11.81	-10.68
17 1 0.00 0.00 0.98 369.56 0.02 3.01 0.11 1.00 1.65 -12.67	17	1	0.00	0.00	0.98	369.56	0.02	3.01	0.11	1.00	1.65	-12.67	-11.55

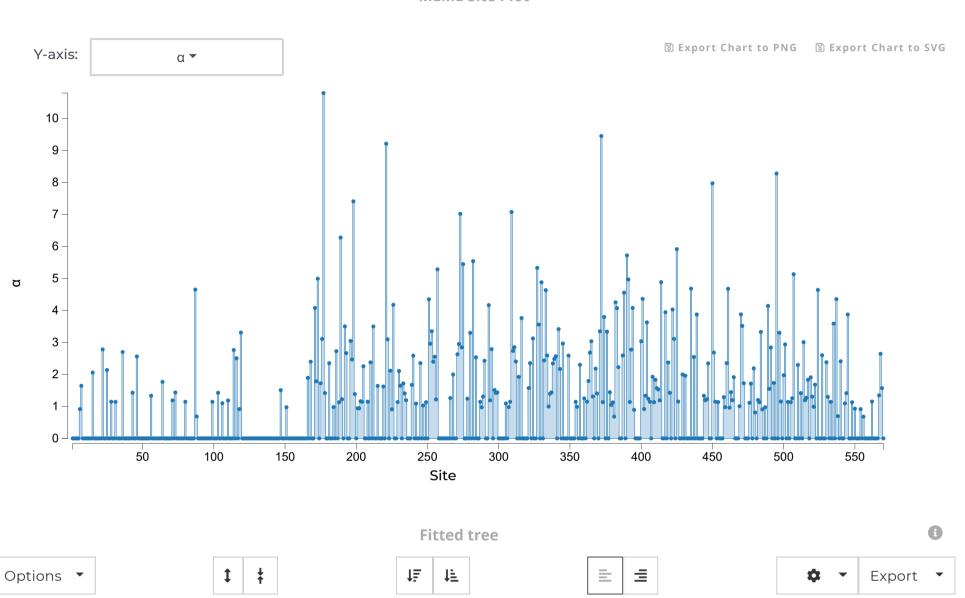


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COVID-19 Blog Classic

13 1 0.00 0.00 0.68 8.28 0.32 2.68 0.13 3.00 0.59 -26.39 -26.28

MEME Site Plot





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COVID-19 Blog Cassic

```
MIYAGI_GEO38_2009_AB630340_GI_
    - AICHI 2010 AB607855 1 GI 2 201
      KM092506 1 SAPOVIRUS ISOLATE 1
       - LC081178_1_SAPOVIRUS_OH13068_G
                 SAV_9_5_TAIPEI_07_TW_EU124657_
                 CHIBA_041413_2004_AB258427_1_G
                 NOBEOKA_1_3_DAY6_2005 AB455800
                 NOBEOKA_1_2_DAY25_2005_AB45579
                NOBEOKA_1_3_DAY28_2005_AB45580
                                               POTSDAM_2000_AF294739_GI_2_200
                                               AF294739_POTSDAM_GERMANY_GI_2_
                                                                  - PARKVILLE_U73124_1_GI_2_1997
                                                                          - HOUSTON_90_U95644_1_GI_2_1990
                                       MK250983_BRA_2015_GI_2_TO_65_2
                                     MK250987_HU_BRA_GI_2_TO_89_201
                                             - 23_PERU_SP265X_GI_2_2018
                                              18_PERU_SP223X_GI_2_2018
                                              17 PERU SP223X GI 2 2018
                                              L 15_PERU_SP223X_GI_2_2018
        MG012442 1 SAPOVIRUSUS OAKLAND
     MG012441_1_SAPOVIRUS_OAKLAND63
       MG132178 1 SHENZHEN 23 CHN GI
       MG132174 1 SHENZHEN 4 CHN GI 2
       ^{
m L} MG515479_{
m 1} SHENZHEN_{
m 22} CHN_{
m GI}
            SN091X TG22010 PHIL BATCH7 201
 KM092508_1_ISOLATE_13_SAV_2_3_
 KM092507 1 ISOLATE 13 SAV 2 2
  JX993277_1_SAPOVIRUS_G1_BE_HPI
MG012440_1_SAPOVIRUS_NASHVILLE
 S67_22_MIYAGI_OUTBR_GI_2_2013K
S68 23 MIYAGI OUTBR GI 2 2013K
 _ LC081170_1_SAPOVIRUS_OH13033_G
 1 LC081162 1 SAPOVIRUS OH12095 J
LC081166_1_SAPOVIRUS_OH13019_J
- LC081169 1 SAPOVIRUS OH13028 J
LC081164_1_SAPOVIRUS_OH13013_J
- LC081155_1_SAPOVIRUS_OH12009_G
```

MEME Branch EBF Table

Showing entries 1 through 10 out of 22950.

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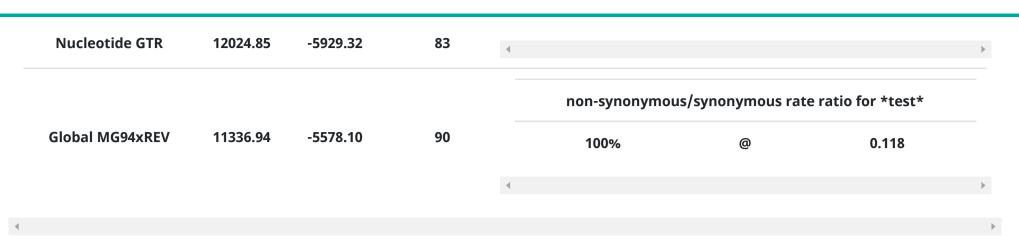
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Site \$	Partition \$	Branch	EBF ≑
103	0	15_PERU_SP223X_GI_2_2018	1
106	0	15_PERU_SP223X_GI_2_2018	1
110	0	15_PERU_SP223X_GI_2_2018	1
114	0	15_PERU_SP223X_GI_2_2018	1
116	0	15_PERU_SP223X_GI_2_2018	1
118	0	15_PERU_SP223X_GI_2_2018	1
119	0	15_PERU_SP223X_GI_2_2018	1
13	0	15_PERU_SP223X_GI_2_2018	0.92
135	0	15_PERU_SP223X_GI_2_2018	1
138	0	15_PERU_SP223X_GI_2_2018	0.31



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This table reports a statistical summary of the models fit to the data. Here, **MG94** refers to the MG94xREV baseline model that infers a single ω rate category per branch.

Datamonkey is funded jointly by MIDAS and NIH award R01 GM093939

