

ML – Delimitation – MACROBIOTIDAE

Best partitioning scheme GTR

Scheme Name : start_scheme

Scheme lnL : -31400.996582

Scheme AIC : 63663.9931641

Number of params : 431

Number of sites : 624

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR	208	d31e22bc9147b86832123e3c9e3dca38	COI_pos1
2	GTR	208	c6524cb89b2cbe74b5cba1db99a147bd	COI_pos2
3	GTR	208	ae866bb6fb0e8923739883337e898273	COI_pos3

Best partitioning scheme GTR+G

Scheme Name : start_scheme

Scheme lnL : -29204.828125

Scheme AIC : 59277.65625

Number of params : 434

Number of sites : 624

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+G	208	d31e22bc9147b86832123e3c9e3dca38	COI_pos1
2	GTR+G	208	c6524cb89b2cbe74b5cba1db99a147bd	COI_pos2
3	GTR+G	208	ae866bb6fb0e8923739883337e898273	COI_pos3

Best partitioning scheme GTR+I

Scheme Name : start_scheme

Scheme lnL : -30530.9217529

Scheme AIC : 61929.8435059

Number of params : 434

Number of sites : 624

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+I	208	d31e22bc9147b86832123e3c9e3dca38	COI_pos1
2	GTR+I	208	c6524cb89b2cbe74b5cba1db99a147bd	COI_pos2
3	GTR+I	208	ae866bb6fb0e8923739883337e898273	COI_pos3

Best partitioning scheme GTR + I + G

Scheme Name : start_scheme

Scheme lnL : -29190.5372314

Scheme AIC : 59255.0744629

Number of params : 437

Number of sites : 624

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+I+G	208	d31e22bc9147b86832123e3c9e3dca38	COI_pos1
2	GTR+I+G	208	c6524cb89b2cbe74b5cba1db99a147bd	COI_pos2
3	GTR+I+G	208	ae866bb6fb0e8923739883337e898273	COI_pos3

ML – Delimitation – MILNESIUM

Best partitioning scheme GTR

Scheme Name : start_scheme

Scheme lnL : -14832.0311279

Scheme AIC : 30122.0622559

Number of params : 229

Number of sites : 569

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos1
2	GTR	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos2
3	GTR	189	9f58eb26c3a9ce8783c7ece0c15467dd	COI_pos3

Best partitioning scheme GTR + G

Scheme Name : start_scheme

Scheme lnL : -13858.6801758

Scheme AIC : 28181.3603516

Number of params : 232

Number of sites : 569

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+G	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos1
2	GTR+G	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos2
3	GTR+G	189	9f58eb26c3a9ce8783c7ece0c15467dd	COI_pos3

Best partitioning scheme GTR+I

Scheme Name : start_scheme

Scheme lnL : -14417.1102295

Scheme AIC : 29298.220459

Number of params : 232

Number of sites : 569

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+I	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos1
2	GTR+I	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos2
3	GTR+I	189	9f58eb26c3a9ce8783c7ece0c15467dd	COI_pos3

Best partitioning scheme GTR +I+G

Scheme Name : start_scheme

Scheme lnL : -13839.5682373

Scheme AIC : 28149.1364746

Number of params : 235

Number of sites : 569

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+I+G	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos1
2	GTR+I+G	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos2
3	GTR+I+G	189	9f58eb26c3a9ce8783c7ece0c15467dd	COI_pos3

ML – Delimitation – ECHINISCIDAE

Best partitioning scheme GTR

Scheme Name : start_scheme

Scheme lnL : -17965.4040527

Scheme AIC : 36708.8081055

Number of params : 389

Number of sites : 570

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos3
2	GTR	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos1
3	GTR	190	9983b245fb896b466dca35a548878e75	COI_pos2

Best partitioning scheme GTR+G

Scheme Name : start_scheme

Scheme lnL : -17092.4508057

Scheme AIC : 34968.9016113

Number of params : 392

Number of sites : 570

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+G	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos3
2	GTR+G	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos1
3	GTR+G	190	9983b245fb896b466dca35a548878e75	COI_pos2

Best partitioning scheme GTR+I

Scheme Name : start_scheme

Scheme lnL : -17543.2042236

Scheme AIC : 35870.4084473

Number of params : 392

Number of sites : 570

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+I	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos3
2	GTR+I	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos1
3	GTR+I	190	9983b245fb896b466dca35a548878e75	COI_pos2

Best partitioning scheme GTR+I+G

Scheme Name : start_scheme

Scheme lnL : -17088.8824463

Scheme AIC : 34967.7648926

Number of params : 395

Number of sites : 570

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+I+G	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos3
2	GTR+I+G	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos1
3	GTR+I+G	190	9983b245fb896b466dca35a548878e75	COI_pos2

BEAST – Delimitation – MACROBIOTIDAE

Best partitioning scheme

Scheme Name : start_scheme

Scheme lnL : -28392.5136719

Scheme AIC : 57651.0273438

Number of params : 433

Number of sites : 624

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+I+G+X	208	d31e22bc9147b86832123e3c9e3dca38	COI_pos1
2	GTR+I+G+X	208	c6524cb89b2cbe74b5cba1db99a147bd	COI_pos2
3	GTR+I+G+X	208	ae866bb6fb0e8923739883337e898273	COI_pos3

BEAST – Delimitation – MILNESIUM

Best partitioning scheme

Scheme Name : start_scheme

Scheme lnL : -12975.8735352

Scheme AIC : 26407.7470703

Number of params : 228

Number of sites : 569

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	TRN+I+G+X	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos1
2	GTR+I+G+X	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos2
3	GTR+I+G+X	189	9f58eb26c3a9ce8783c7ece0c15467dd	COI_pos3

BEAST – Delimitation – ECHINISCIDAE

Best partitioning scheme

Scheme Name : start_scheme

Scheme lnL : -16411.6246338

Scheme AIC : 33601.2492676

Number of params : 389

Number of sites : 570

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+G+X	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos3
2	GTR+G+X	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos1
3	GTR+I+G+X	190	9983b245fb896b466dca35a548878e75	COI_pos2

BEAST – Gamma stats – MACROBIOTIDAE

Best partitioning scheme

Scheme Name : start_scheme

Scheme lnL : -23401.9390869

Scheme AIC : 47215.8781738

Number of params : 206

Number of sites : 624

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+I+G+X	208	d31e22bc9147b86832123e3c9e3dca38	COI_pos1
2	GTR+I+G+X	208	c6524cb89b2cbe74b5cba1db99a147bd	COI_pos2
3	GTR+G+X	208	ae866bb6fb0e8923739883337e898273	COI_pos3

BEAST – Gamma stats – MILNESIUM

Best partitioning scheme

Scheme Name : start_scheme

Scheme lnL : -10259.3353271

Scheme AIC : 20758.6706543

Number of params : 120

Number of sites : 569

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	TRN+I+G+X	190	7d9e2e78e332d9ae405034dcc27c15d2	COI_pos1
2	GTR+I+G+X	190	4c16666c2c52ef68312d20aae6f845c1	COI_pos2
3	HKY+I+G+X	189	9f58eb26c3a9ce8783c7ece0c15467dd	COI_pos3

BEAST – Gamma stats – ECHINISCIDAE

Best partitioning scheme

Scheme Name : start_scheme

Scheme lnL : -13296.2658691

Scheme AIC : 26862.5317383

Number of params : 135

Number of sites : 570

Number of subsets : 3

Subset	Best Model	# sites	subset id	Partition names
1	GTR+G+X	190	7d9e2e78e332d9ae405034dcc27c15d2	Gene1_pos3
2	GTR+G+X	190	4c16666c2c52ef68312d20aae6f845c1	Gene1_pos1
3	GTR+I+G+X	190	9983b245fb896b466dca35a548878e75	Gene1_pos2