Create an FNA file

HyPhy uses a custom data format (Fasta + Newick or FNA) to make things easier

Simply open your Fasta file and paste the Newick string right below

TTGAGCAGAATAAATCATTTTGAGAAGATTCTGATCATCCCCAAGAGTTCCTGGCCAAAT CATGAAACATCACTAGGGGTGAGCGCAGCTTGTCCATACCAGGGAGCGCCCTCCTTTTTC AGAAATGTGGTGTGGCTTATCAAAAAGAACGATGCATACCCAACAATAAAGATAAGCTAC AATAATACCAATCGGGAAGATCTCTTGATACTGTGGGGGATTCATCATTCCAACAATGCA GAAGAGCAGACAAATCTCTACAAAAACCCAACCACCTACATTTCAGTTGGAACATCAACT TTAAACCAGAGGTTGGCACCAAAAATAGCTACTAGATCCCAAGTAAACGGGCAACGTGGA AGAATGGACTTCTTCTGGACAATCTTAAAACCAGATGATGCAATCCATTTCGAGAGTAAT GGAAATTTCATTGCTCCAGAATATGCATACAAAATTGTCAAGAAAGGGGACTCAACAATT ATGAAAAGTGGAGTGGAATATGGCCACTGCAACACCAAATGTCAAACCCCAGTAGGTGCG ATAAATTCTAGTATGCCATTCCACAACATACATCCTCTCACCATTGGGGAATGCCCCAAA TACGTGAAGTCAAACAAGTTGGTCCTTGCGACTGGGCTCAGAAATAGTCCTCTAAGAGAA GGAATGGTTGATGGTATGGGTACCATCATAGCAATGAGCAGGGGAGTGGGTACGCT GCGGACAAAGAATCCACCCAAAAGGCAATAGATGGAGTTACCAATAAGGTCAACTCAATC ATTGACAAAATGAACACTCAATTTGAGGCAGTTGGAAGGGAGTTTAATAACTTAGAAAGG AGGATAGAGAATTTGAACAAGAAAATGGAAGACGGATTCCTAGATGTCTGGACCTATAAT GCTGAACTTCTAGTTCTCATGGAAAACGAGAGGACTCTAGATTTCCATGATTCAAATGTC AAGAACCTTTACGACAAAGTCAGATTACAGCTTAGGGATAATGCAAAGGAGCTGGGTAAC GGCTGTTTCGAATTCTATCACAAATGTGATAATGAATGTATGGAAAGTGTGAGAAATGGG ACGTATGACTACCCTCAGTATTCAGAAGAAGCAAGATTAAAAAGAGAAGAAATAAGCGGA GTGAAATTAGAATCAGTAGGAACTTACCAGATACTGTCAATTTATTCAACAGCGGCAAGT TCCCTAGCACTGGCAATCATGATGGCTGGTCTATCTTTATGGATGTGCTCCAATGGGTCG TTACAGTGCAGAATTTGCATTTAG

04:0.000000):0.0000000, OQ958804.1_||USA|NY|2022-04-04:0.000000):0.010594, OQ961564.1_|Bubo_virginianus|USA|NY|2022-04:0.010594):0.032642, (0Q961068.1_|Corvus_ossifragus|USA|NY|2022-04-04:0.029003, (0Q959564.1_|Haliaeetus_leucocephalus|USA|NY|2022-04-21:0.030490, ((((0Q963300.1_|Phasianus_colchicus|USA|NY|2022-04-26:0.000000, 0Q961548.1_|Bubo_virginianus|USA|NY|2022-04-07:0.000000):0.0000000, 0Q961556.1_|Bubo_virginianus|USA|NY|2022-04-07:0.000000):0.015892, 0Q962772.1_|Phasianinae|USA|NY|2022-03-22:0.015892):0.012392, ((0Q958780.1_||USA|NY|2022-03-28:0.005297, 0Q958772.1_||USA|NY|2022-03-28:0.005297):0.018590, (0Q965100.1_| Bubo_scandiacus|USA|NY|2022-03-22:0.023278, ((0Q958764.1_||USA|NY|2022-02-22:0.000000, 0Q958756.1_||USA|NY|2022-02-22:0.000000):0.022835, (0Q963812.1_|Calidris_alba|USA|NY|2022-04-11:0.019082, ((0Q961228.1_|Ardea_herodias|USA|NY|2022-03-02:0.005814, (0Q964204.1_|Anser_caerulescens|USA|NY|2022-03:0.005562, (((((((((0Q965188.1_|Cathartes_aura|USA|NY|2022-04-12:0.000000, 0Q963252.1_| Aythya_americana|USA|NY|2022-03:0.000000):0.0000000, OQ960660.1_|Branta_canadensis|USA|NY|2022-03-21:0.0000000):0.0000000, OQ958788.1_|| USA|NY|2022-04-04:0.000000):0.0000000, OQ958796.1_||USA|NY|2022-04-04:0.000000):0.0000000, OQ959068.1_|Sibirionetta_formosa|USA|NY|2022-03-23:0.000000):0.0000000, 0Q962516.1_||USA|NY|2022-03-21:0.0000000):0.0000000, 0Q960876.1_|Accipiter_cooperii|USA|NY|2022-03-31:0.000000):0.005297, 0Q967076.1_|Aix_sponsa|USA|NY|2022-04-11:0.005297):0.000265):0.000252):0.007909, ((0Q965172.1_| Cygnus_columbianus|USA|NY|2022-04-01:0.010594, 0Q964212.1_|Anser_caerulescens|USA|NY|2022-03:0.010594):0.001980, (0Q962524.1_||USA|NY| 2022-04-05:0.012597, (OQ959548.1_|Haliaeetus_leucocephalus|USA|NY|2022-04-06:0.011306, (OQ963044.1_|Buteo_jamaicensis|USA|NY|2022-04-06:0.005814, (OQ963036.1_|Buteo_jamaicensis|USA|NY|2022-03-29:0.005562, (OQ959556.1_|Haliaeetus_leucocephalus|USA|NY|2022-04-12:0.005297, 0Q959540.1_|Haliaeetus_leucocephalus|USA|NY|2022-03-30:0.005297):0.000265):0.000252):0.005492):0.001292):-0.000023):0.001148):0.005359):0.003753):0.000443):0.000609):0.004396):0.002206):-0.001486):0.014233):0.005129);

With the Fasta and Newick files in hand...

You now have two files:

A codon-based multiple sequence alignment

And a phylogenetic tree.

These can be used for all downstream selection analyses in HyPhy

Happy Hunting!