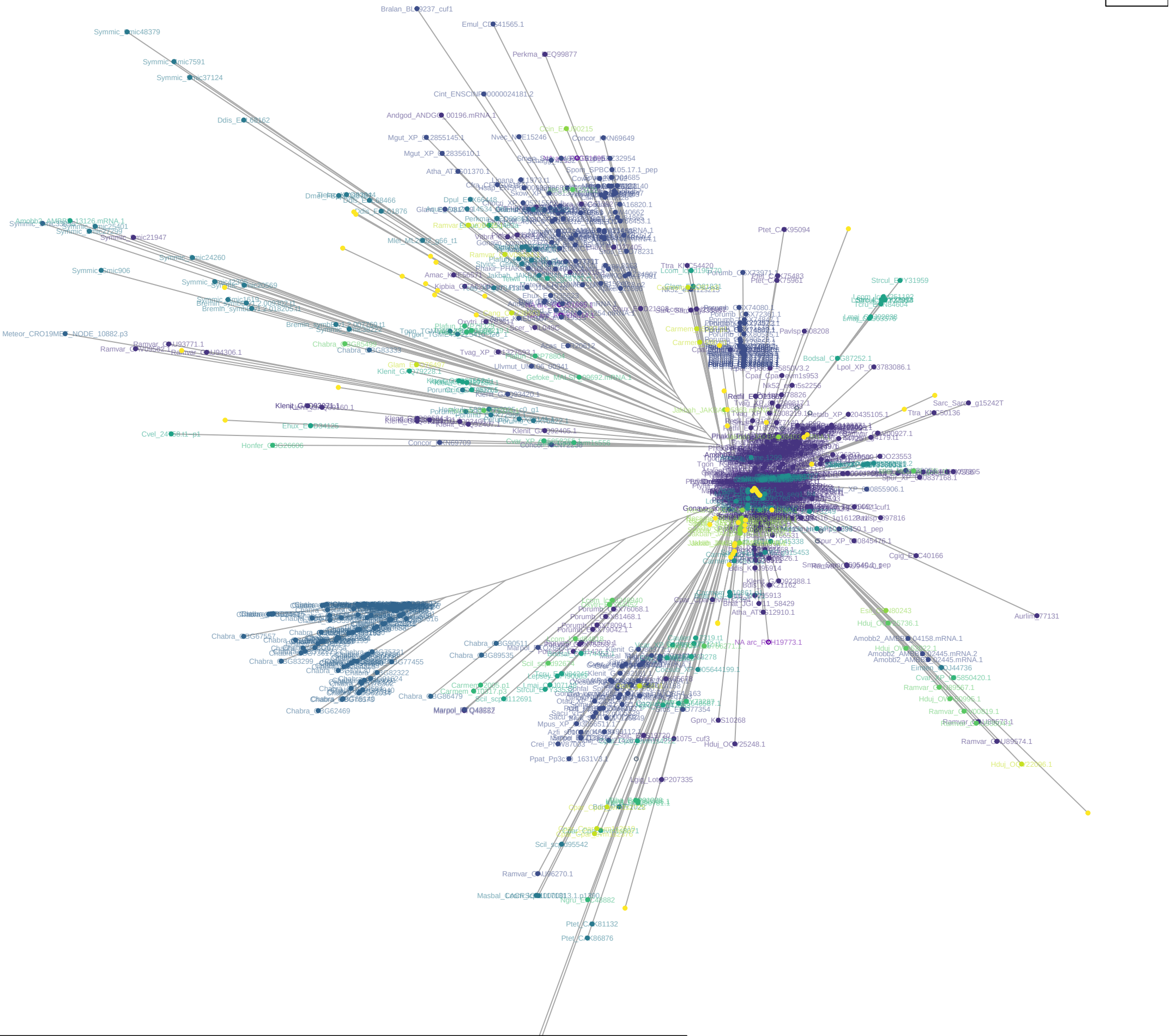
Histone
euk.Histone.phy.HG1.seqs.iqtree.treefile
n=946 sequences

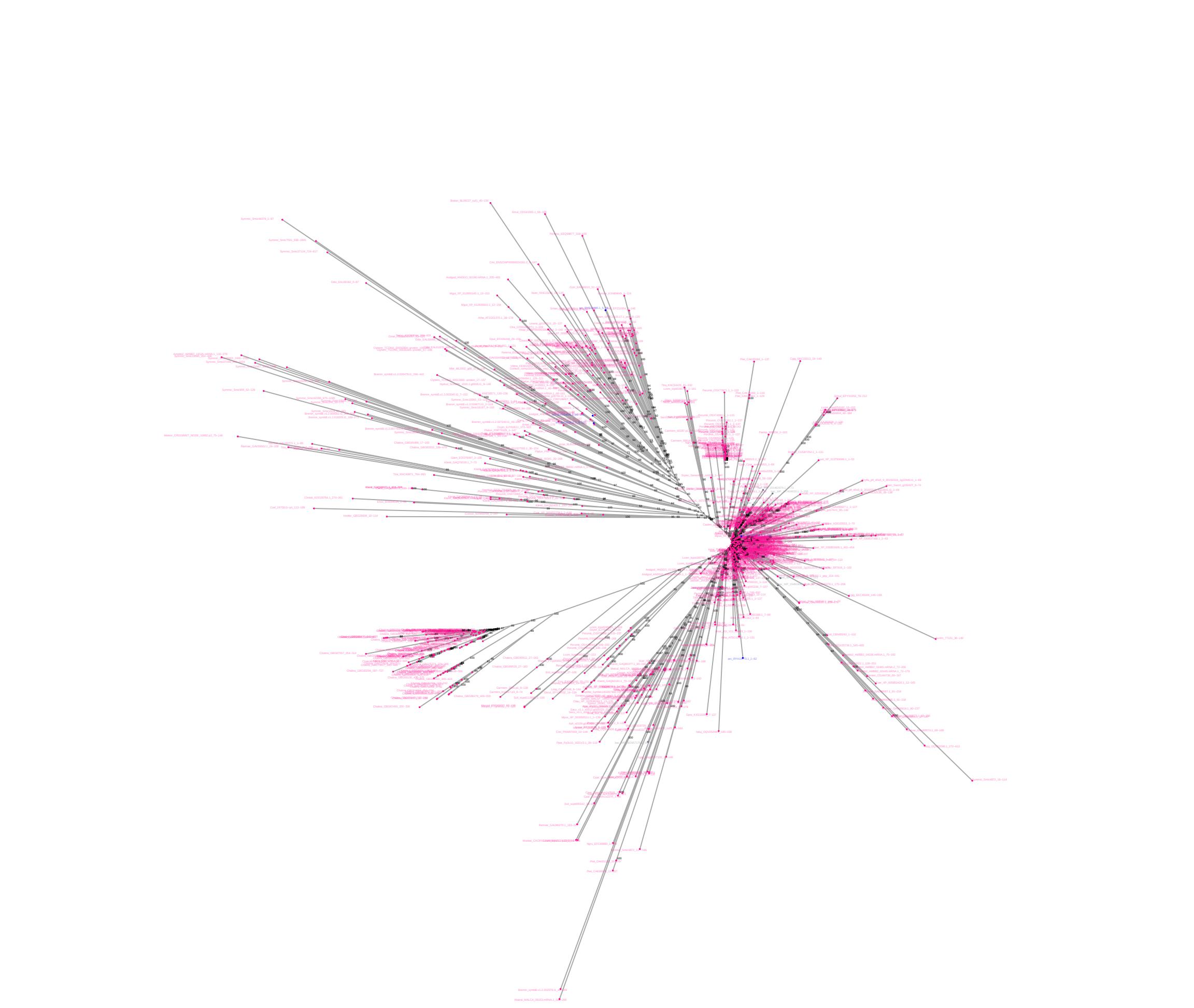
eukaryotes
archaea
bacteria



Histone.HG2.5:H3−2/H3−3A/H3−3B/H3−4/H3−5/H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3C8/H3C10/H3C11/H3C12/H3C13/H3C14/H3C15/H3Y1/H3Y2 n = 416
Histone.HG2.0:CENPA n = 173
Histone.HG10.0:NA n = 107
Histone.HG2.18:like:CENPA/H3−2/H3−3A/H3−3B/H3−4/H3−5/H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3C8/H3C10/H3C11/H3C12/H3C13/H3C14/H3C15/H3Y1/H3Y2:likeclu:0/5 n = 49
Histone.HG2.2:like:H3−2/H3−3A/H3−3B/H3−4/H3−5/H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3C8/H3C10/H3C11/H3C12/H3C13/H3C14/H3C15/H3Y1/H3Y2:likeclu:5 n = 37
Histone.HG2.10:like:CENPA/H3−2/H3−3A/H3−3B/H3−4/H3−5/H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3C8/H3C10/H3C11/H3C12/H3C13/H3C14/H3C15/H3Y1/H3Y2:likeclu:0/5 n = 35
Histone.HG2.17:like:CENPA/H3−2/H3−3A/H3−3B/H3−4/H3−5/H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3C8/H3C10/H3C11/H3C12/H3C13/H3C14/H3C15/H3Y1/H3Y2:likeclu:0/5 n = 16
Histone.HG2.11:like:CENPA/H3−2/H3−3A/H3−3B/H3−4/H3−5/H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3C8/H3C10/H3C11/H3C12/H3C13/H3C14/H3C15/H3Y1/H3Y2:likeclu:0/5 n = 15
Histone.HG2.6:like:CENPA/H3−2/H3−3A/H3−3B/H3−4/H3−5/H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3C8/H3C10/H3C11/H3C12/H3C13/H3C14/H3C15/H3Y1/H3Y2:likeclu:0/5 n = 14
Histone.HG2.14:like:CENPA/H3−2/H3−3A/H3−3B/H3−4/H3−5/H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3C8/H3C10/H3C11/H3C12/H3C13/H3C14/H3C15/H3Y1/H3Y2:likeclu:0/5 n = 12
other n = 50

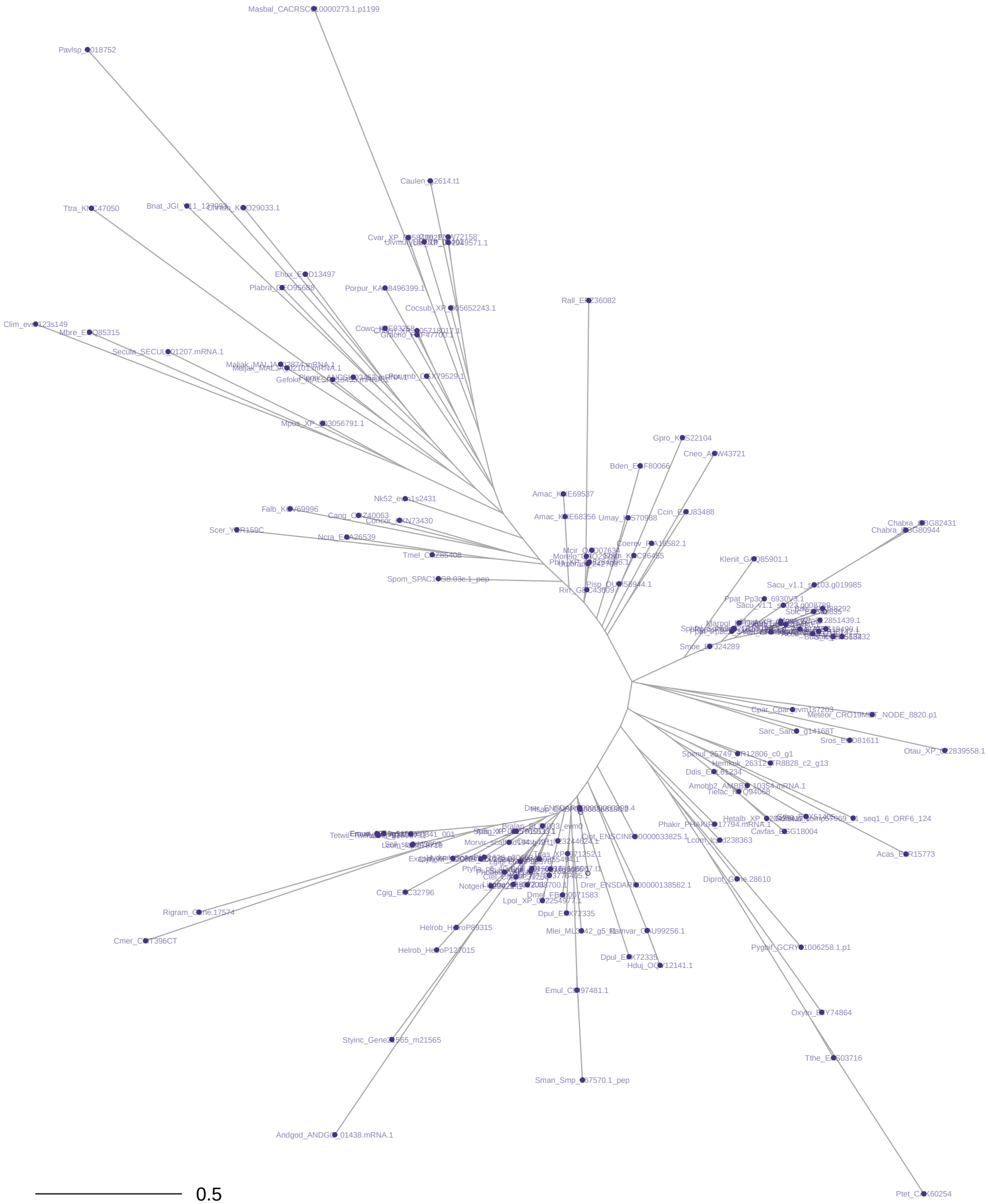
0.5

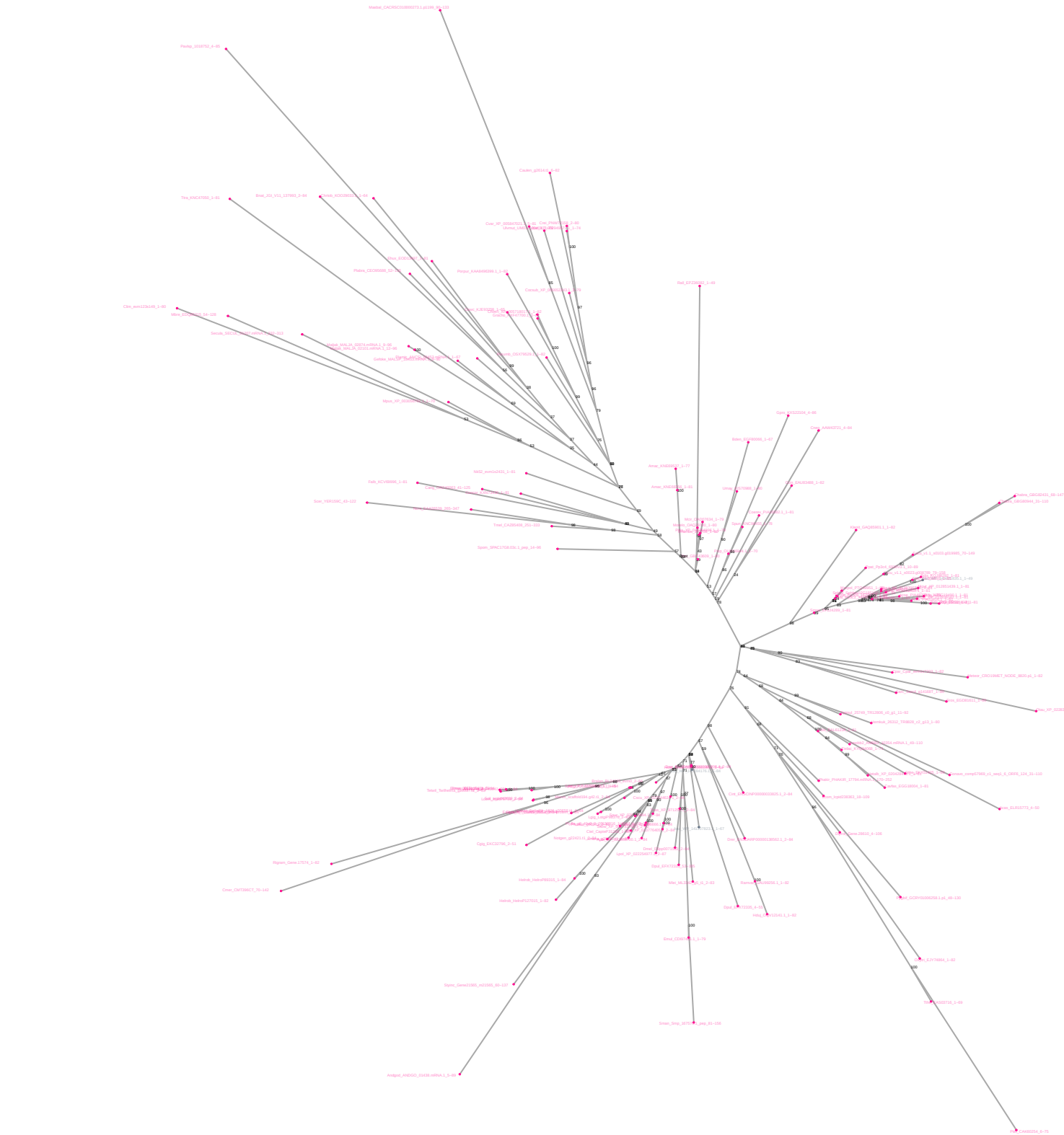
NA n = 6


0.5

Histone
euk.Histone.phy.HG10.seqs.iqtree.treefile
n=145 sequences

eukaryotes
archaea
bacteria

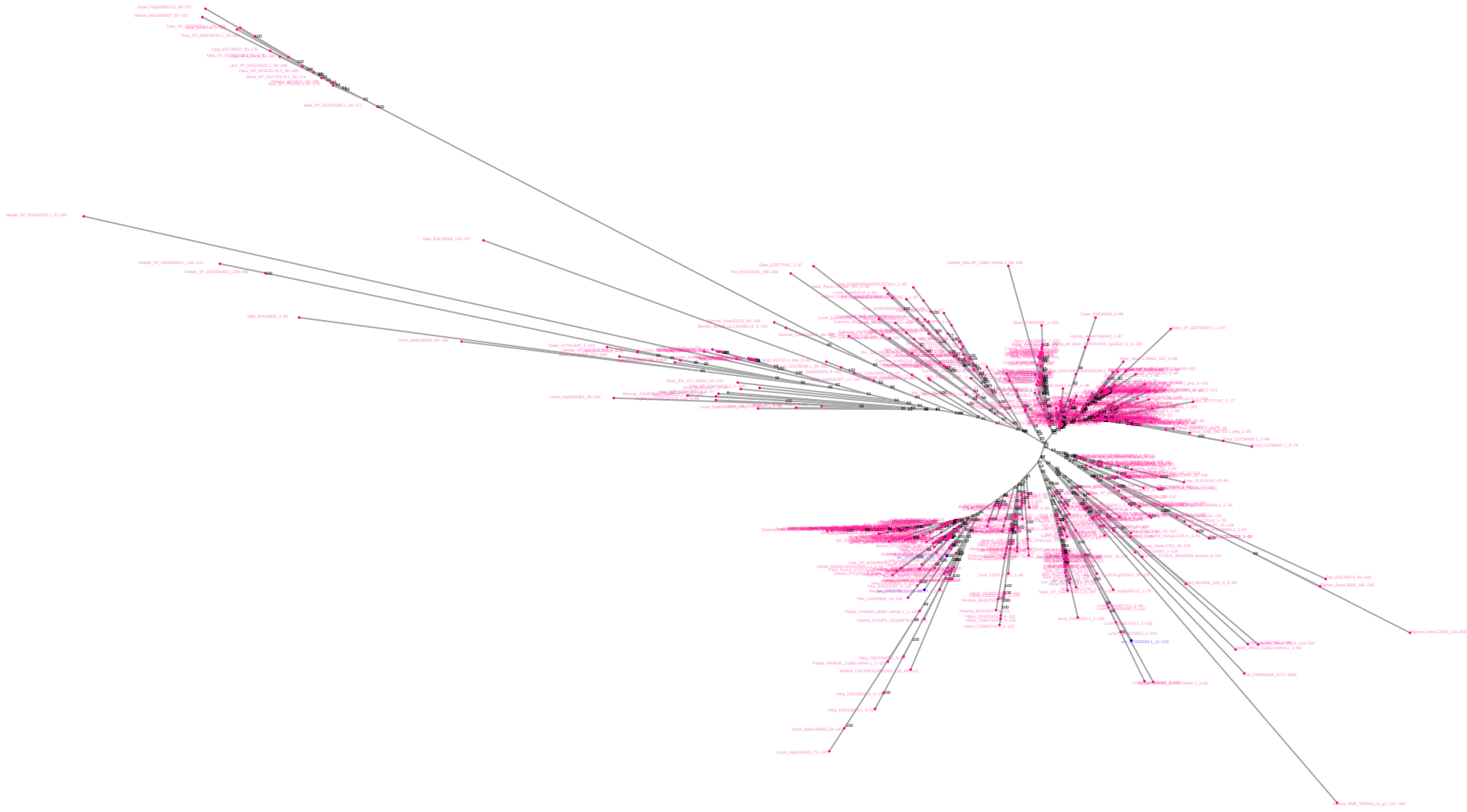



0.5

Histone
euk.Histone.phy.HG2.seqs.iqtree.treefile
n=641 sequences

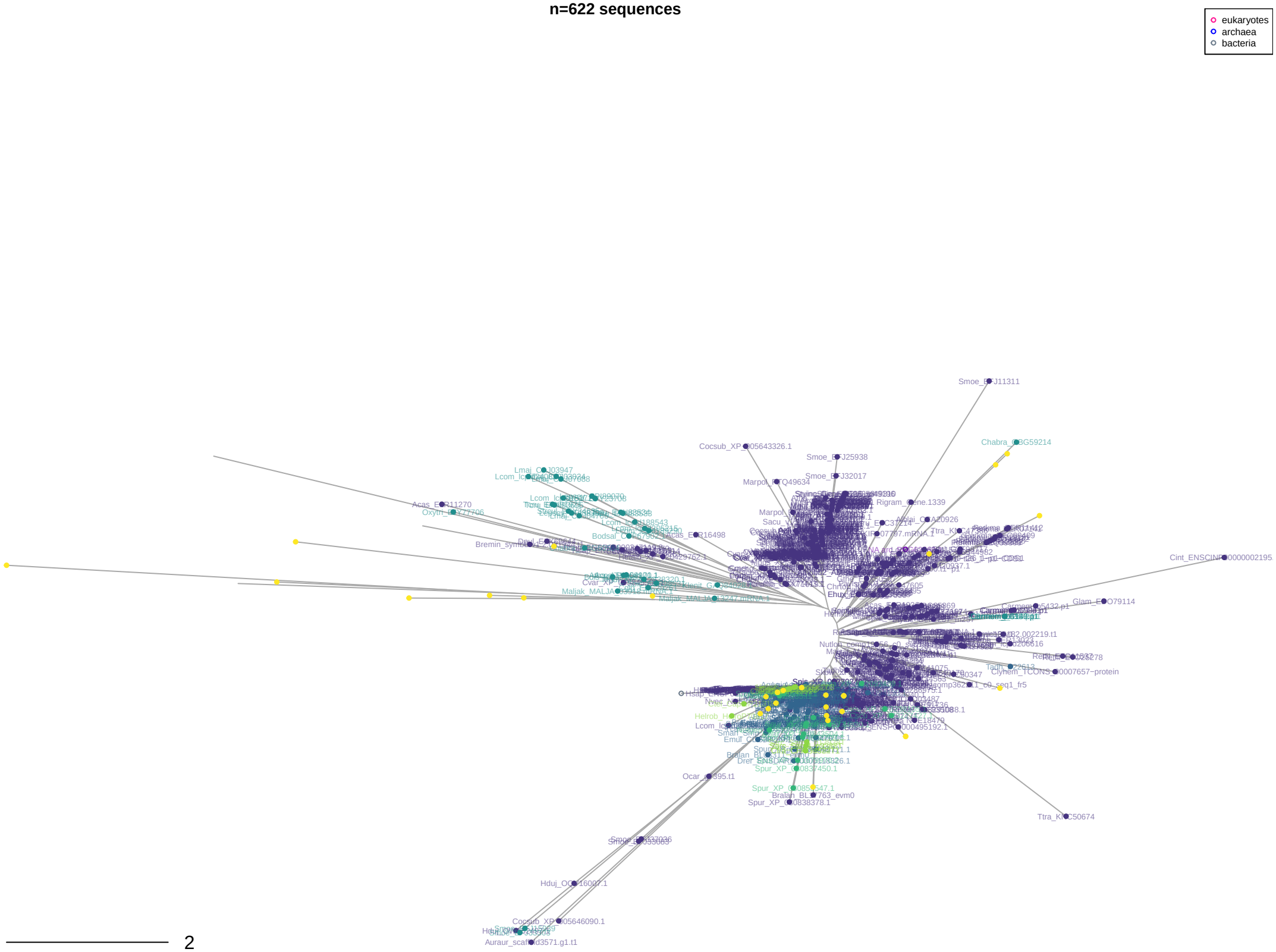
- Histone.HG1.12:like:AL031777.2/H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC15/H2AC16/H2AC17/H2AC18/H2AC19/H2AC20/H2AC21/H2AJ/H2AW/H2AX:likeclu:17 n = 233
- Histone.HG1.17:AL031777.2/H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC15/H2AC16/H2AC17/H2AC18/H2AC19/H2AC20/H2AC21/H2AJ/H2AW/H2AX n = 167
- Histone.HG1.11:like:AL031777.2/H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC15/H2AC16/H2AC17/H2AC18/H2AC19/H2AC20/H2AC21/H2AJ/H2AW/H2AX:likeclu:17 n = 65
- Histone.HG1.1:SOS1/SOS2 n = 49
- Histone.HG1.3:MACROH2A1/MACROH2A2 n = 35
- Histone.HG1.10:like:AL031777.2/H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC15/H2AC16/H2AC17/H2AC18/H2AC19/H2AC20/H2AC21/H2AJ/H2AW/H2AX:likeclu:17 n = 13
- Histone.HG1.13:like:AL031777.2/H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC15/H2AC16/H2AC17/H2AC18/H2AC19/H2AC20/H2AC21/H2AJ/H2AW/H2AX:likeclu:17 n = 12
- Histone.HG1.14:like:AL031777.2/H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC15/H2AC16/H2AC17/H2AC18/H2AC19/H2AC20/H2AC21/H2AJ/H2AW/H2AX:likeclu:17 n = 11
- other n = 38

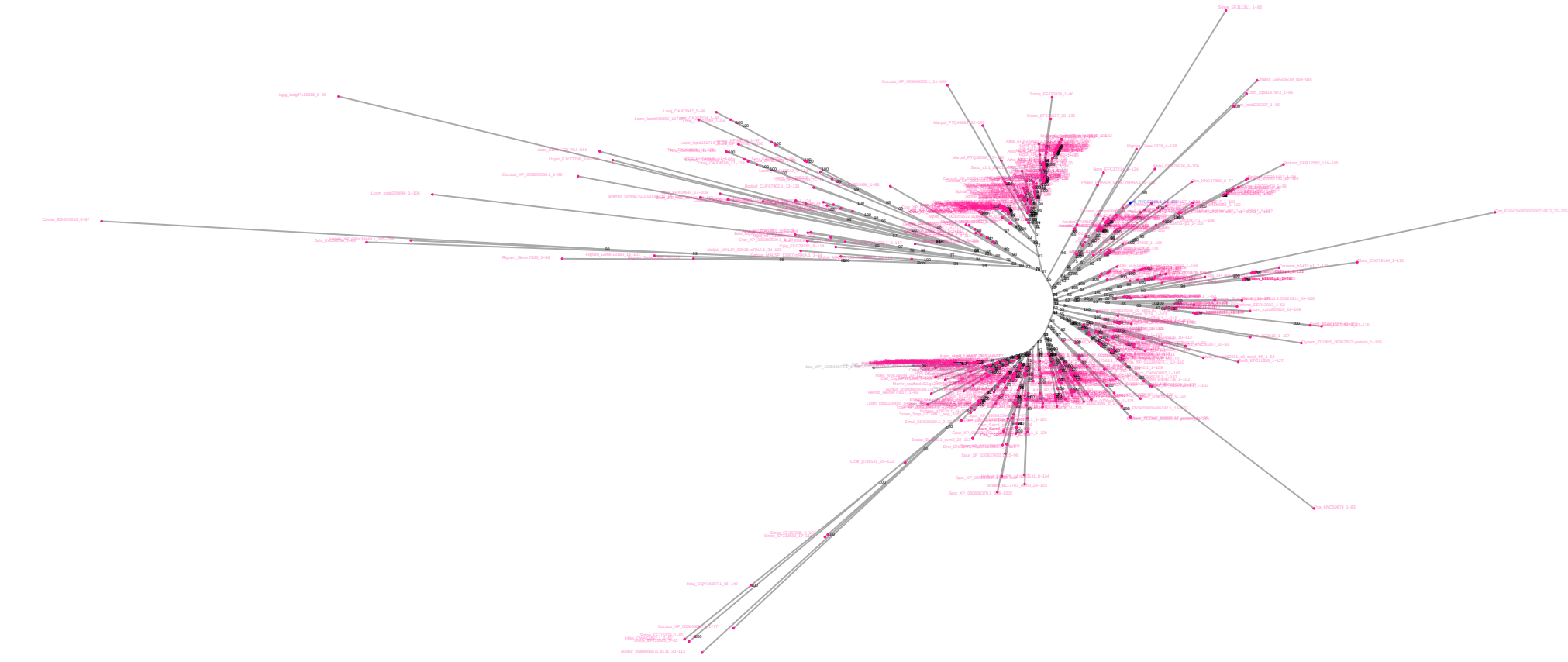
NA n = 3



1

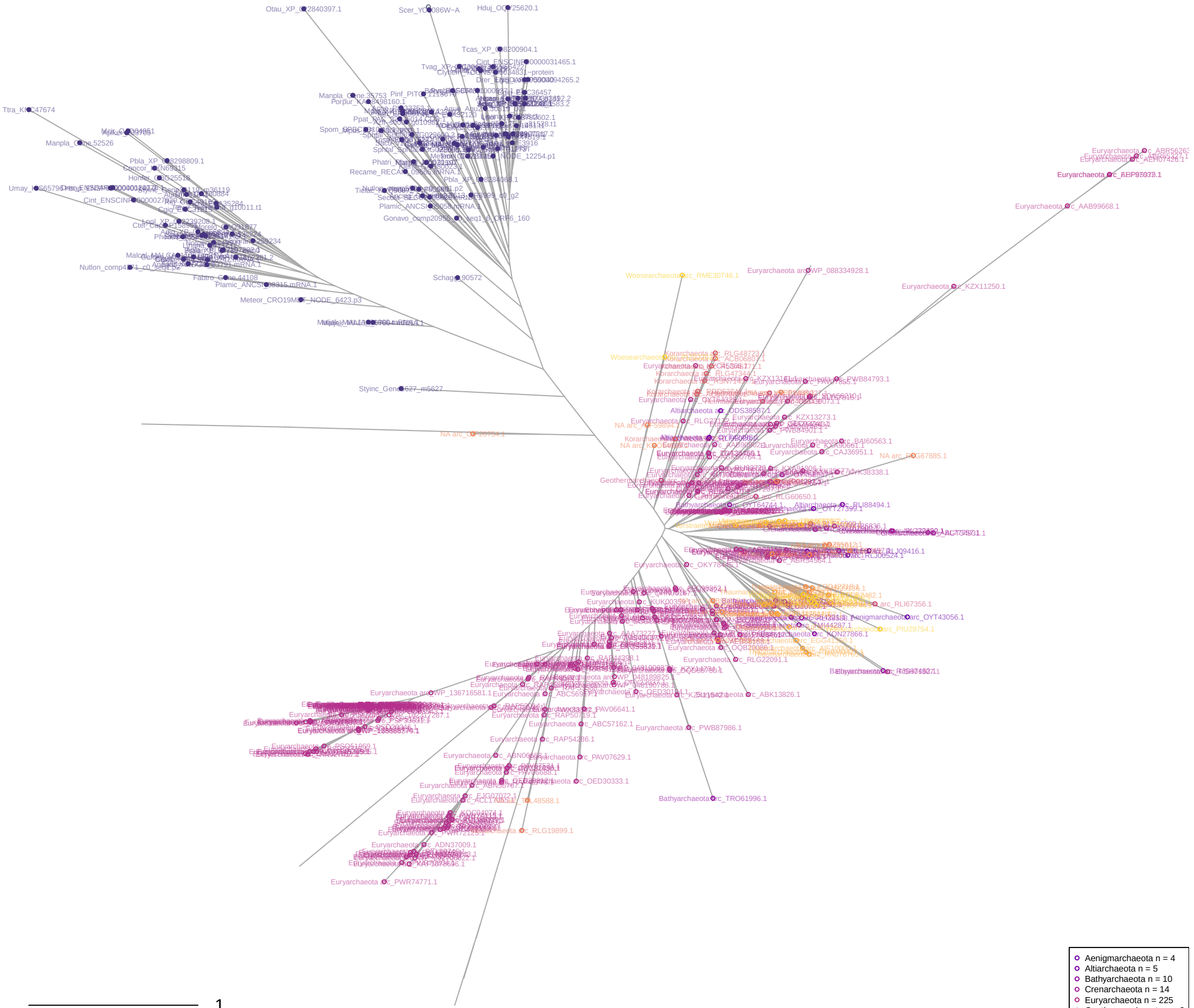
Histone
euk.Histone.phy.HG3.seqs.iqtree.treefile
n=622 sequences

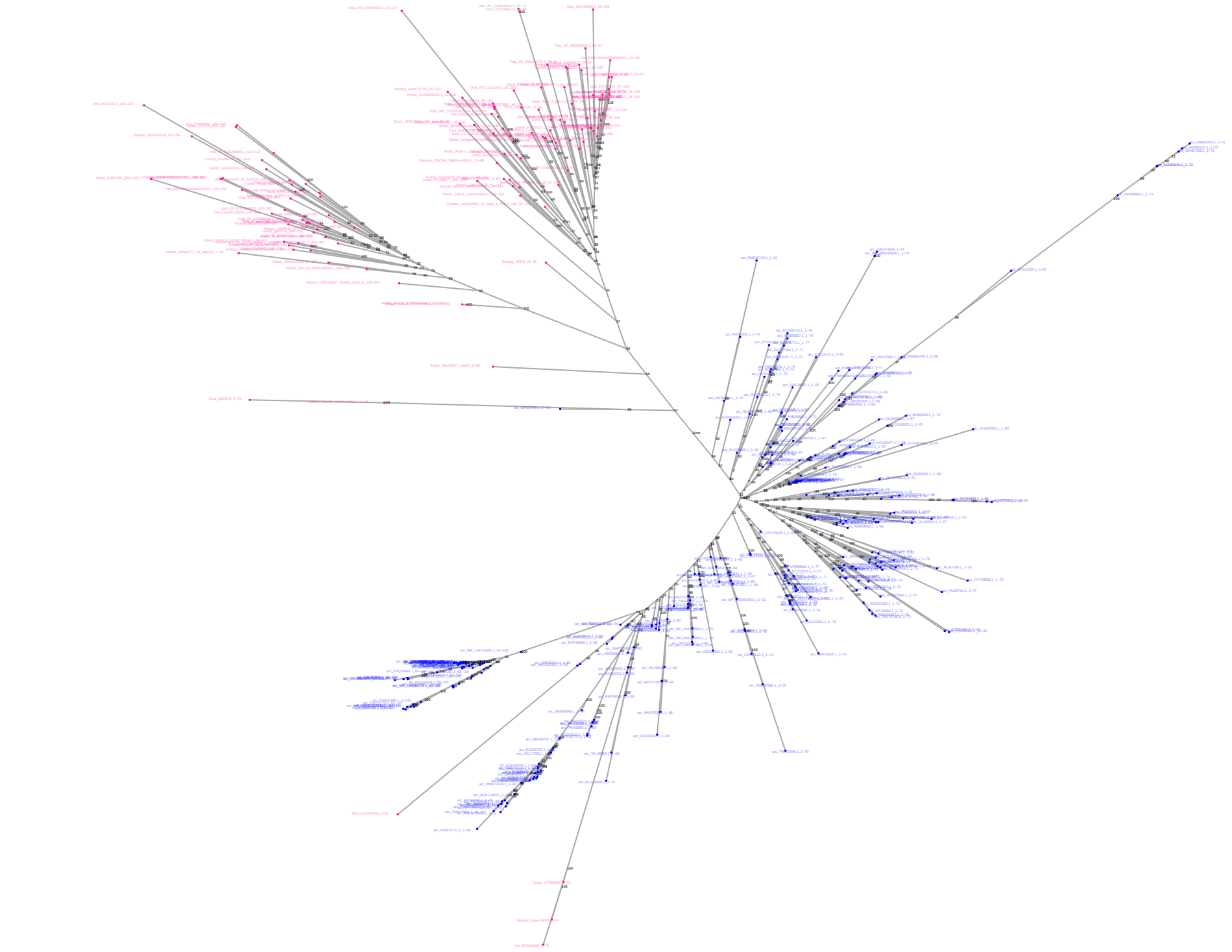




2

Histone
euk.Histone.phy.HG4.seqs.iqtree.treefile
n=450 sequences





1

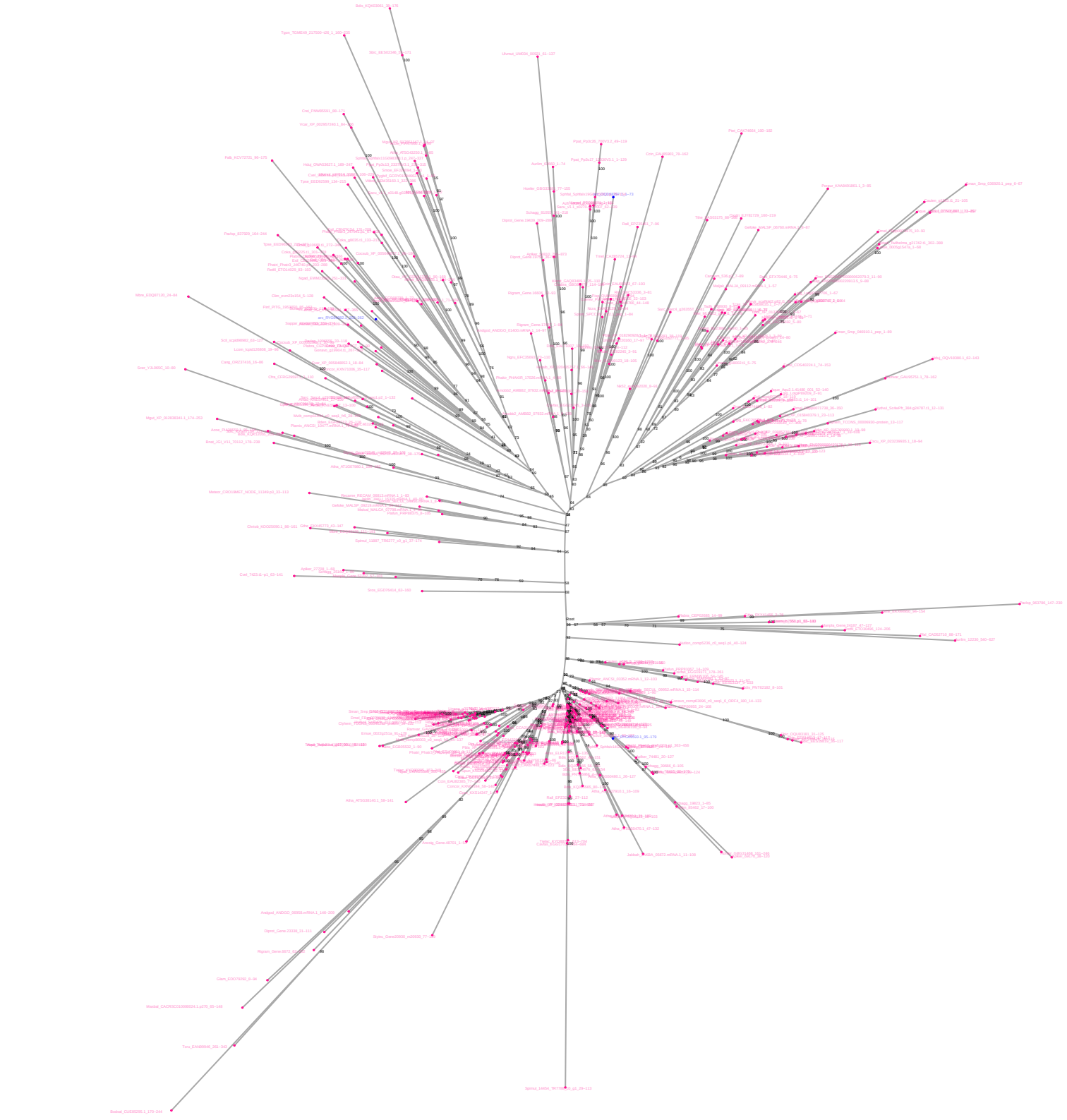
Histone
euk.Histone.phy.HG5.seqs.iqtree.treefile
n=448 sequences

eukaryotes
archaea
bacteria

Histone.HG4.0:NFYC n = 230
Histone.HG4.8:like:CHRAC1/POLE4:likeclu:2/3 n = 60
Histone.HG4.3:POLE4 n = 40
Histone.HG4.4:like:CHRAC1/POLE4:likeclu:2/3 n = 36
Histone.HG4.2:CHRAC1 n = 35
Histone.HG4.5:like:CHRAC1/POLE4:likeclu:2/3 n = 16
Histone.HG4.7:like:CHRAC1/POLE4:likeclu:2/3 n = 15
other n = 10

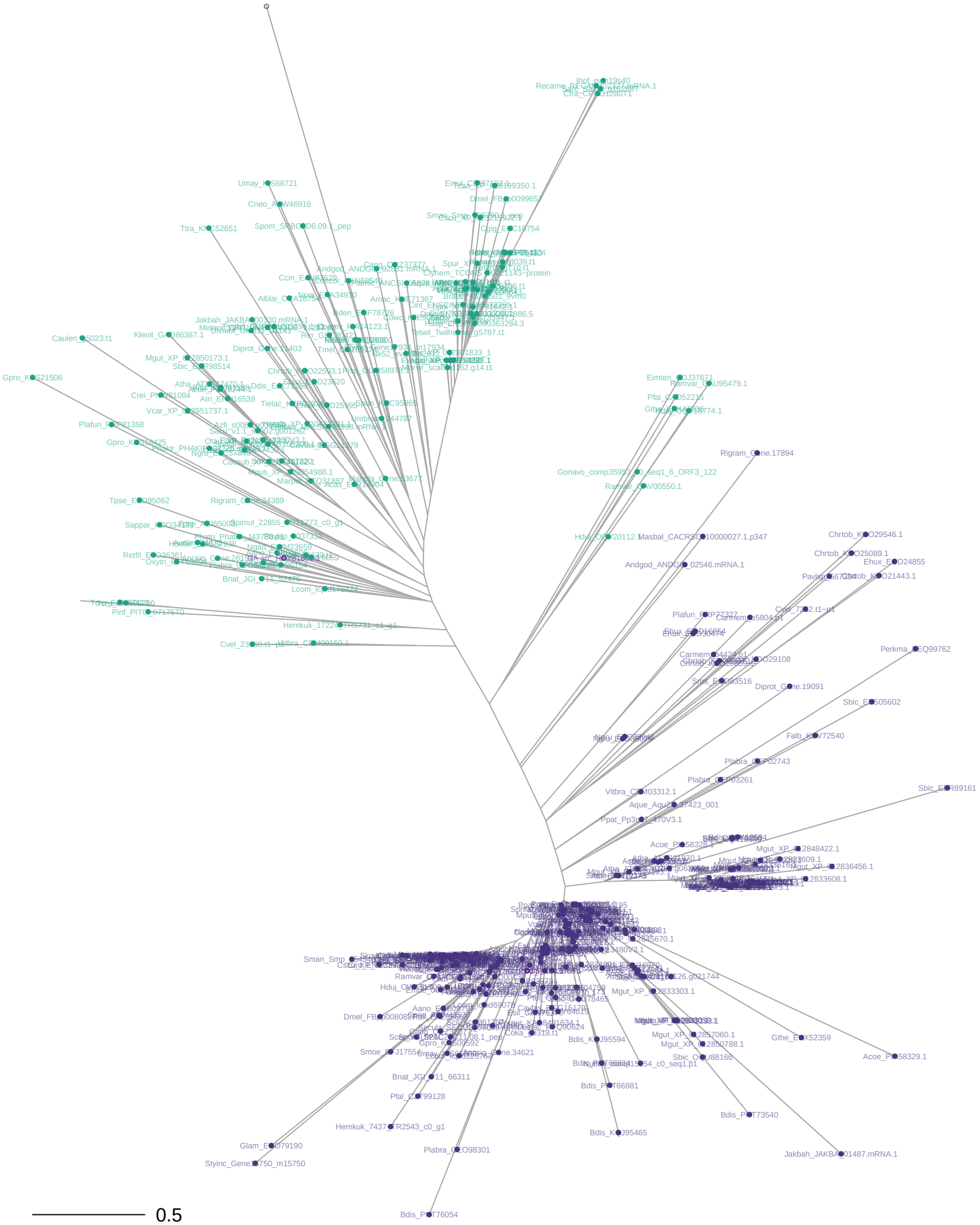
1

Euryarchaeota n = 1
NA n = 2


Root
1

Histone
euk.Histone.phy.HG6.seqs.iqtree.treefile
n=403 sequences

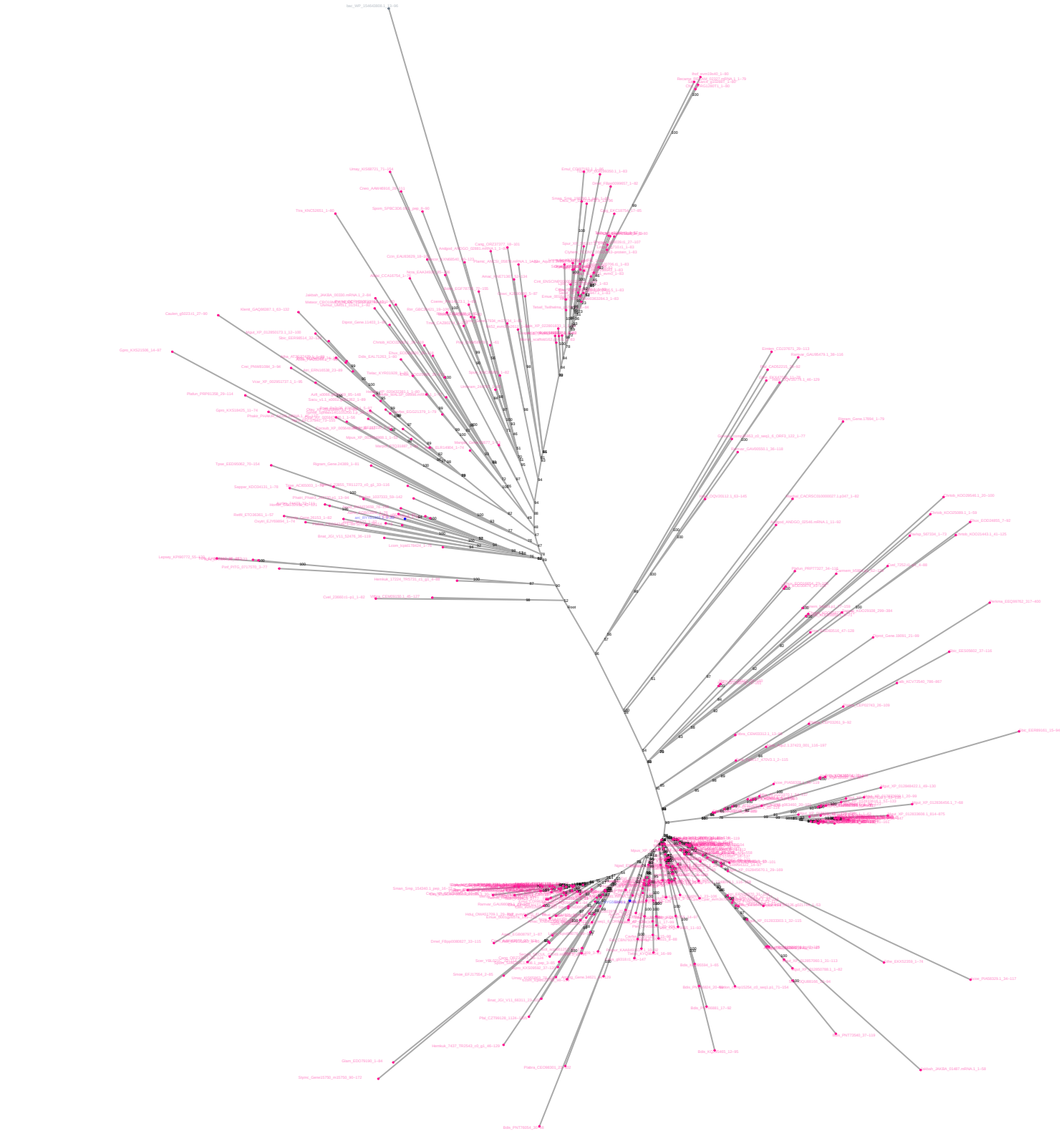
eukaryotes
archaea
bacteria



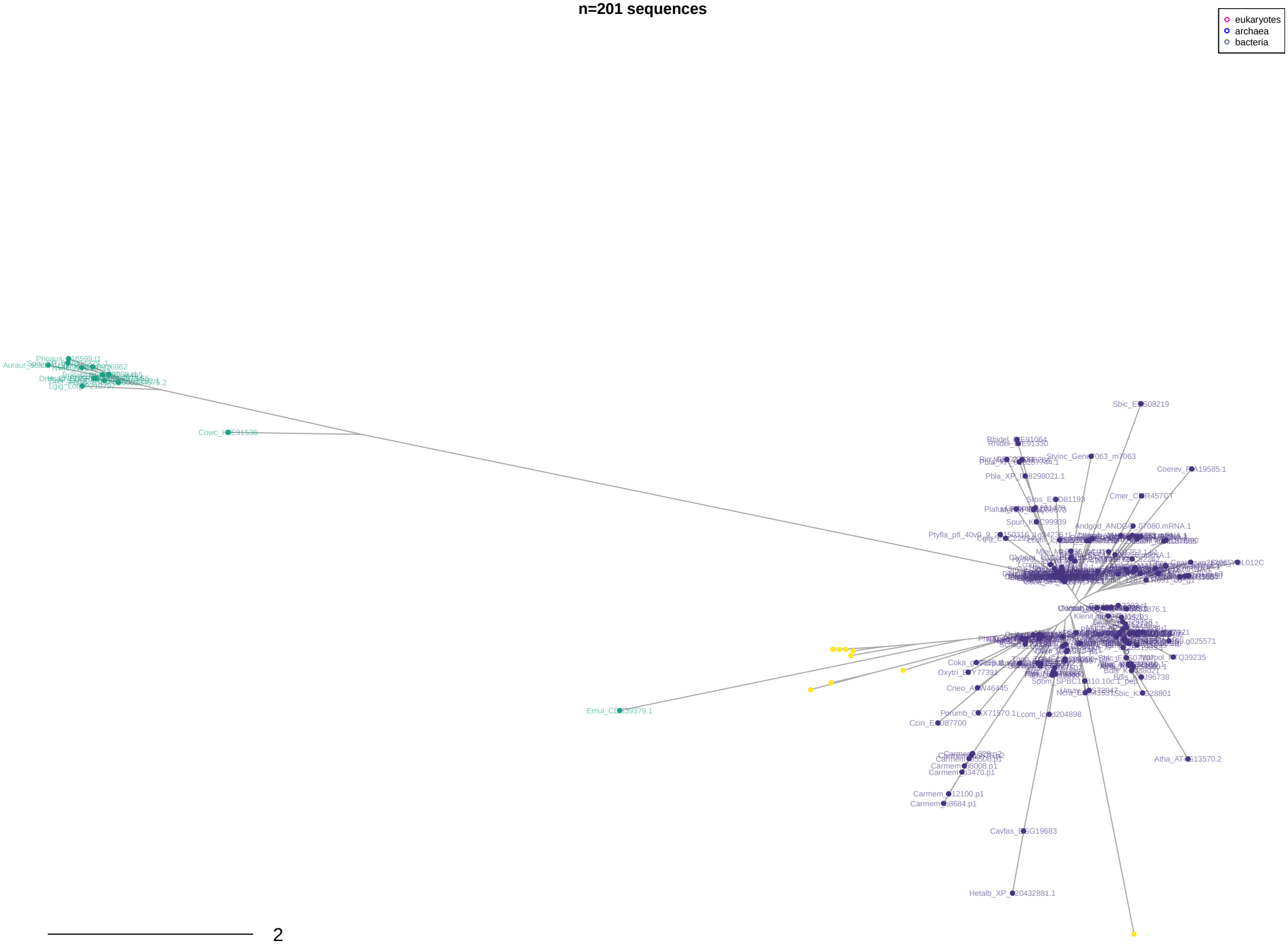
Histone.HG5.1:NFYB n = 260
Histone.HG5.0:POLE3 n = 139
other n = 0

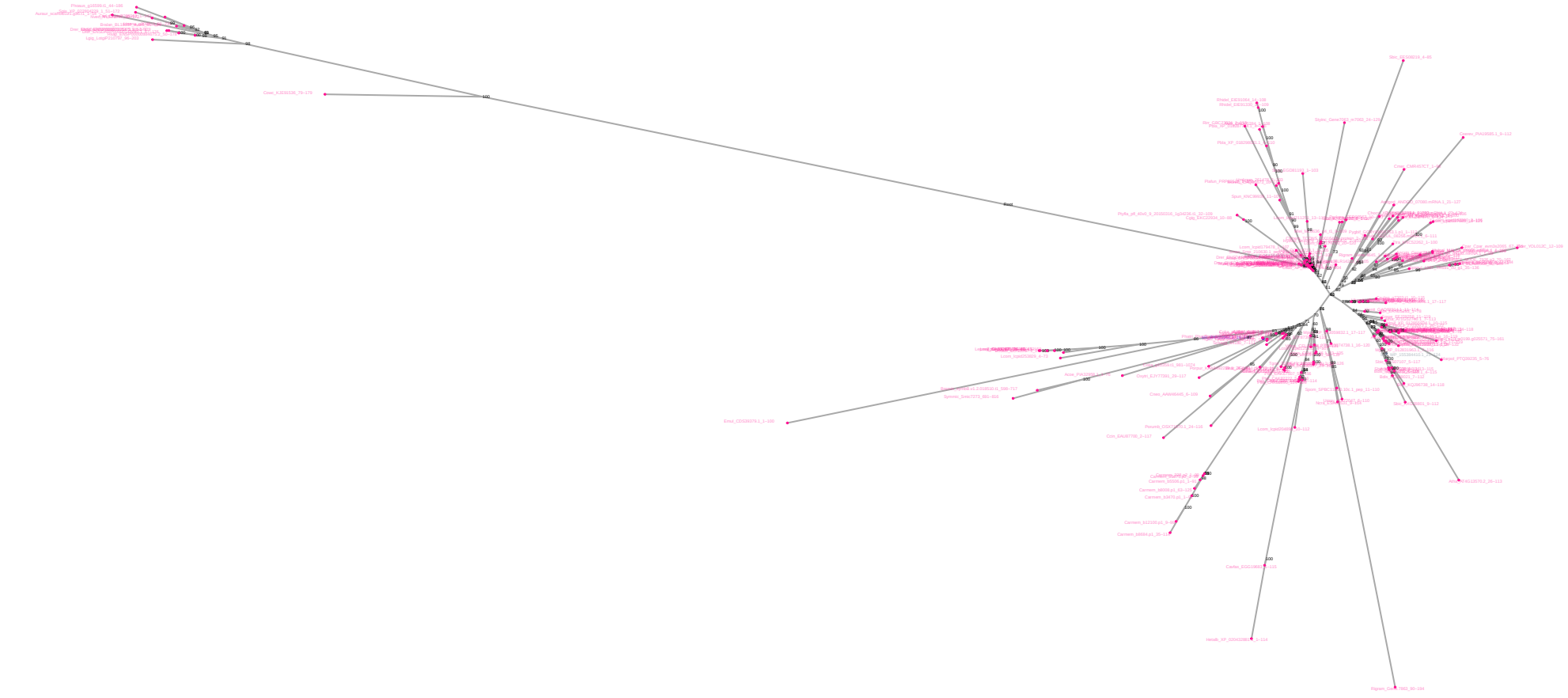
0.5

NA n = 2


0.5

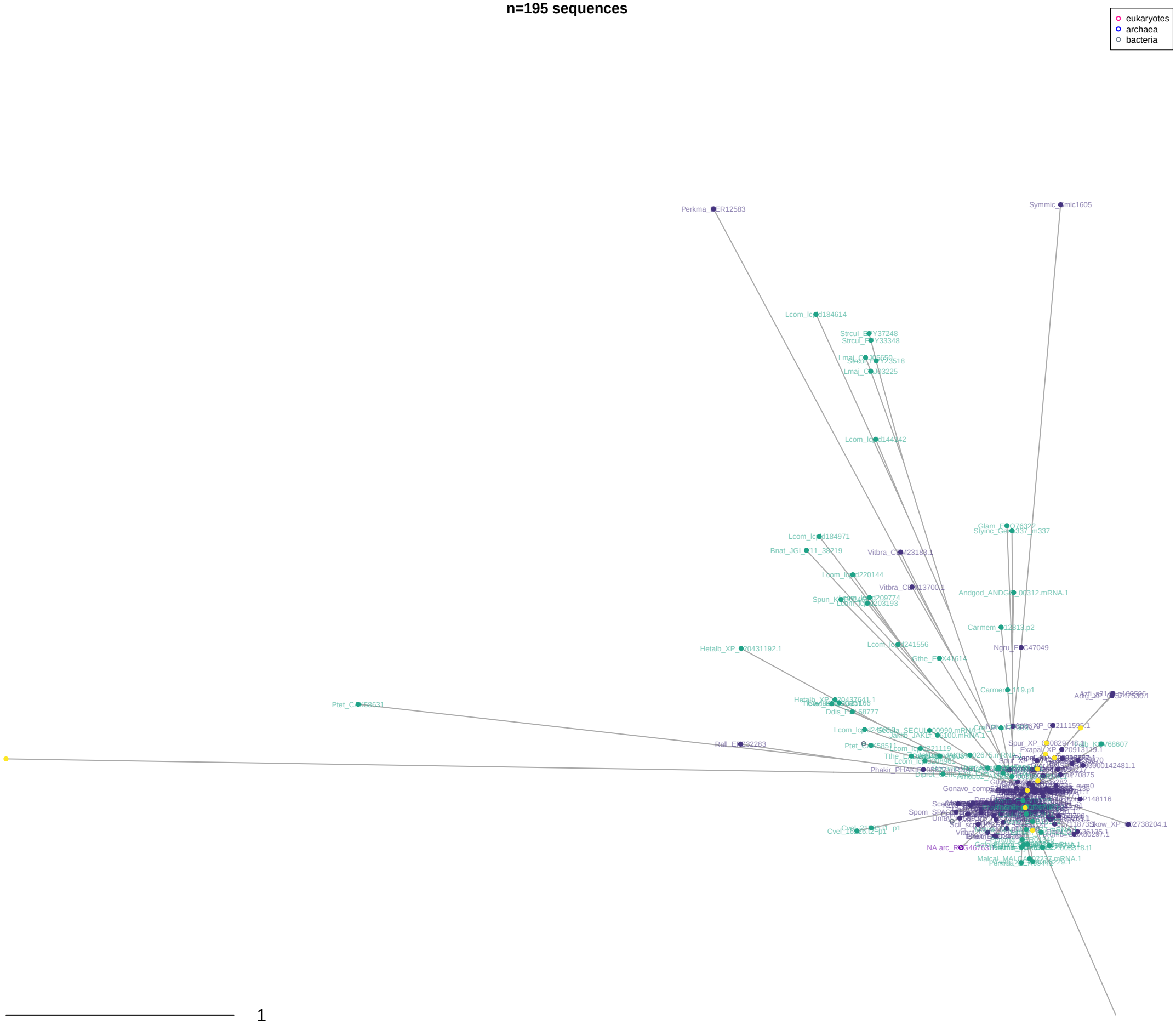
Histone
euk.Histone.phy.HG7.seqs.iqtree.treefile
n=201 sequences

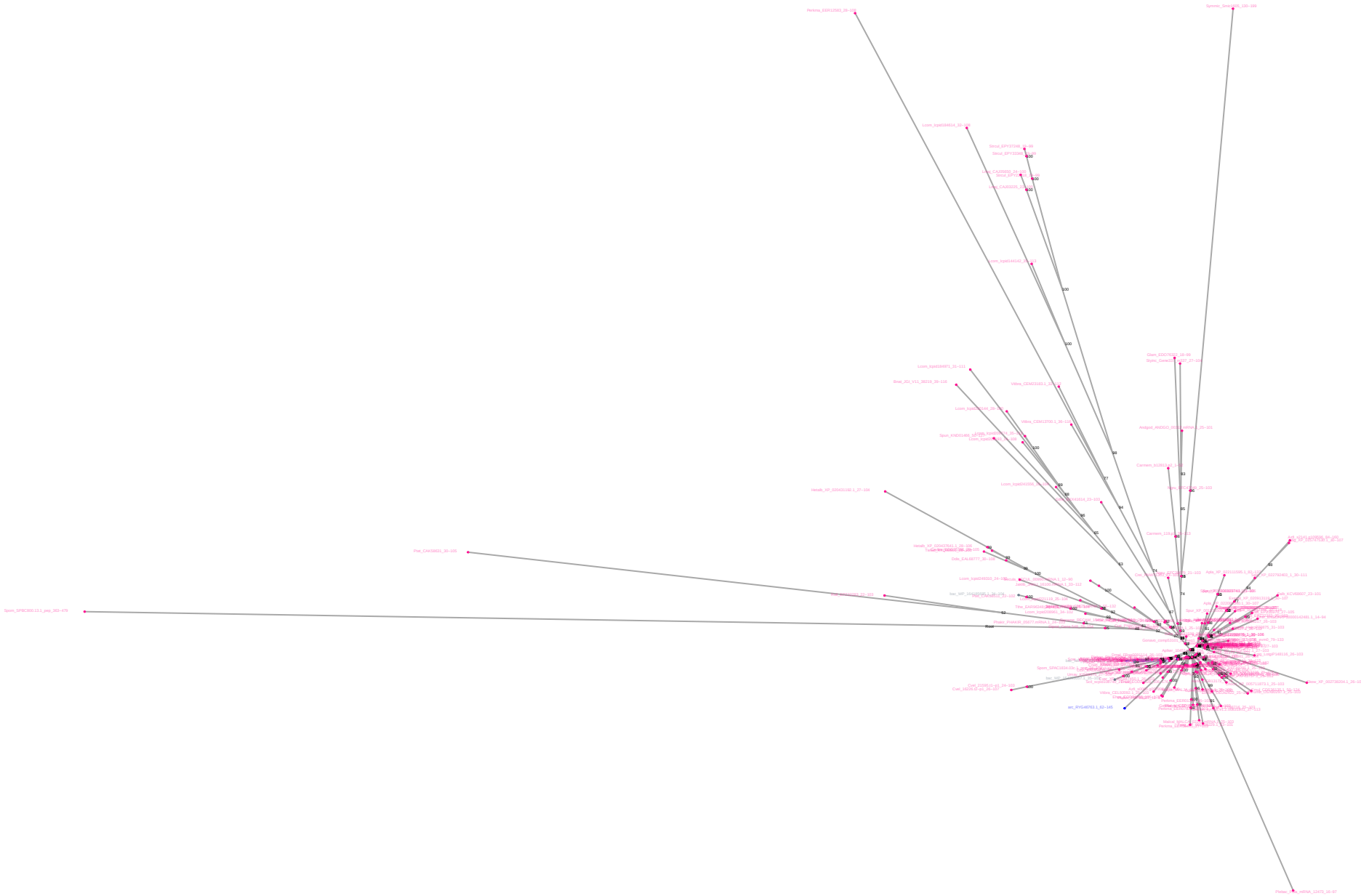




2

Histone
euk.Histone.phy.HG8.seqs.iqtree.treefile
n=195 sequences





1

Histone
euk.Histone.phy.HG9.seqs.iqtree.treefile
n=146 sequences

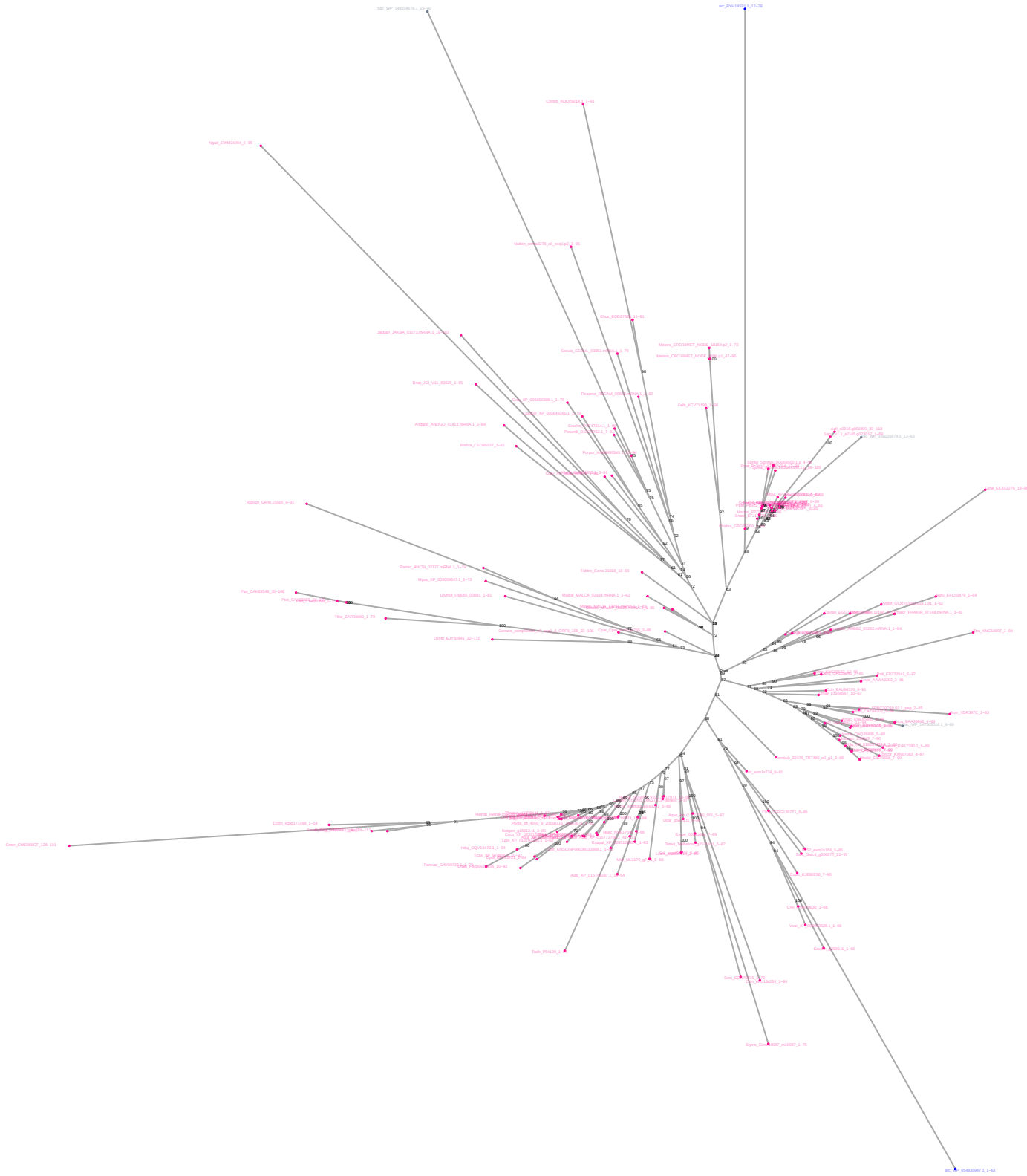
eukaryotes
archaea
bacteria

NA arc_ROH14591.1
Chrtob_KOO29214.1
Nutlon_comp2278_c0_seq1.p2
Ehux_EOD27638
Jakbah_JAKBAG03273.mRNA.1
Meteor_CRO19MET_NODE_10154.p2
Secula_SECUL003353.mRNA.1
Meteor_CRO19MET_NODE_9696.p1
Bnat_JGI_v11_83825
Recame_RECAM_00852.mRNA.1
Cvar_XP_005850388.1
Falb_KOV71193
Cocsub_XP_005649265.1
Andgod_ANDGO_01413.mRNA.1
Gracho_PNF47214.1
Porumb_CRX73752.1
Azfi_s0210.g058490
Sacu_v1.1_s0145.g026017
Plabra_CEO95037
Porpur_KAA8495349.1
Sphfal_Sphfal_BG069500.1.p
Rigram_Gene.15565
Gthe_EOX42279
Chabra_CBG85969
Plamic_ANCSU02127.mRNA.1
Fabtro_Gene.21018
Mpus_XP_003059847.1
Ptet_CAK63548
Ulvmut_ULVMB_00081
Malcal_MALCAL02934.mRNA.1
Pygbif_GCRY01003139.1.p1
Ngru_EFC50479
Tthe_EGR98480
Oxytri_EOY83941
Amphi2_AMPHI_03252.mRNA.1
Ttra_KHC54897
Rall_EJG32641
Chle_AOW43202
Scer_YER397C
Morelo_MOR26895
Hemkuk_22479_TR7490_c0_g1
Rhidel_EJF75658
Ihof_a01s734
Cfra_CFRS1362T1
Lcom_lcpid171498
Cmer_CME089CT
Nk52_scf1s164
Sarc_Sarc_g20687T
Cowc_HOE90256
Hduj_OQR19472.1
Ramvar_CRZ09795.1
Adig_XP_005749287.1
Crei_PNW70930
Vcar_XP_002963528.1
Caulen_g2026.t1
Tadh_P54139
Sros_EGD75276
Styinc_Gene10087_m10087
Euryarchaeota arc_WP_054835947.1

1

Histone.HG8.0:DR1 n = 140
other n = 0

Euryarchaeota n = 1
NA n = 1


1