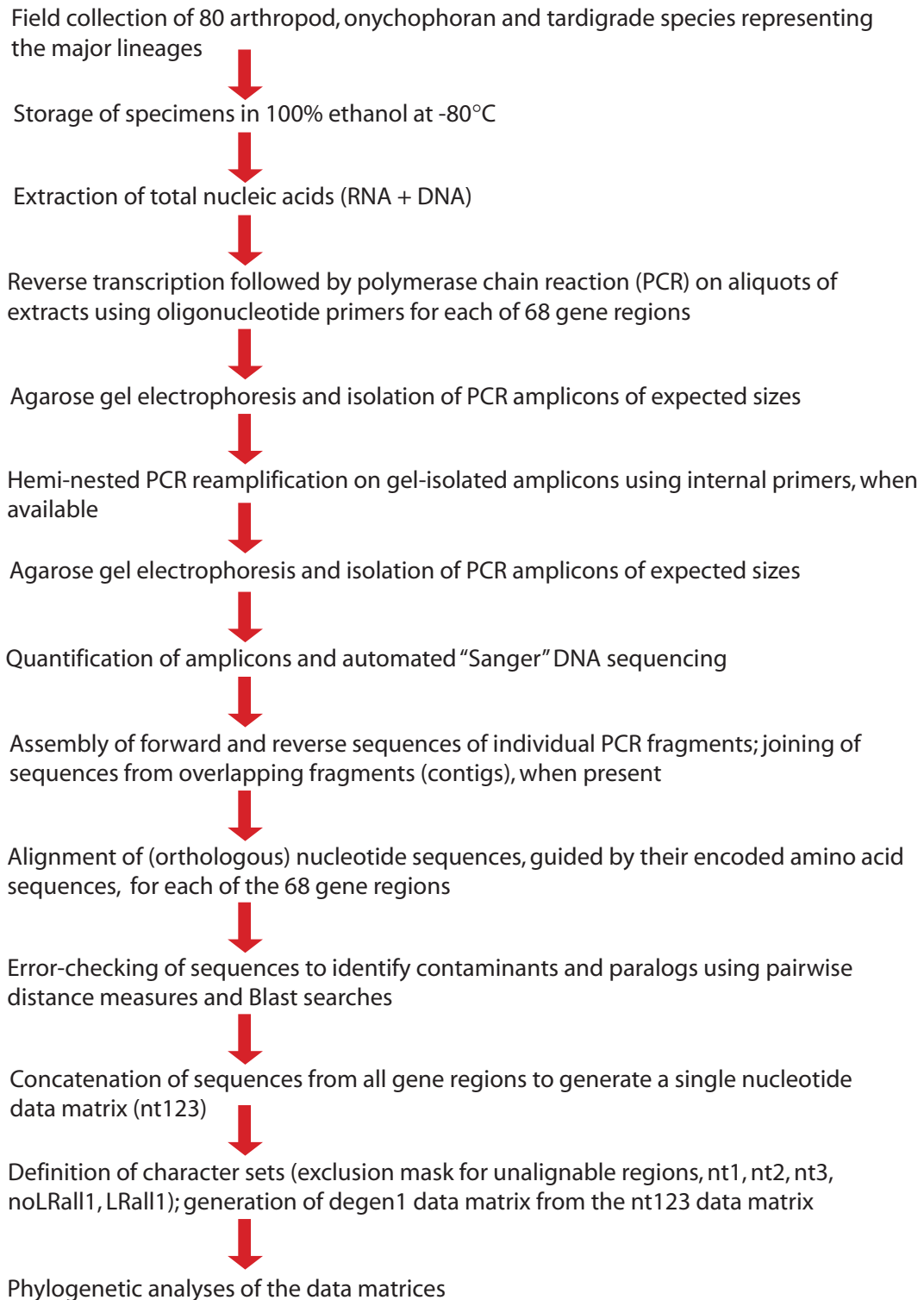
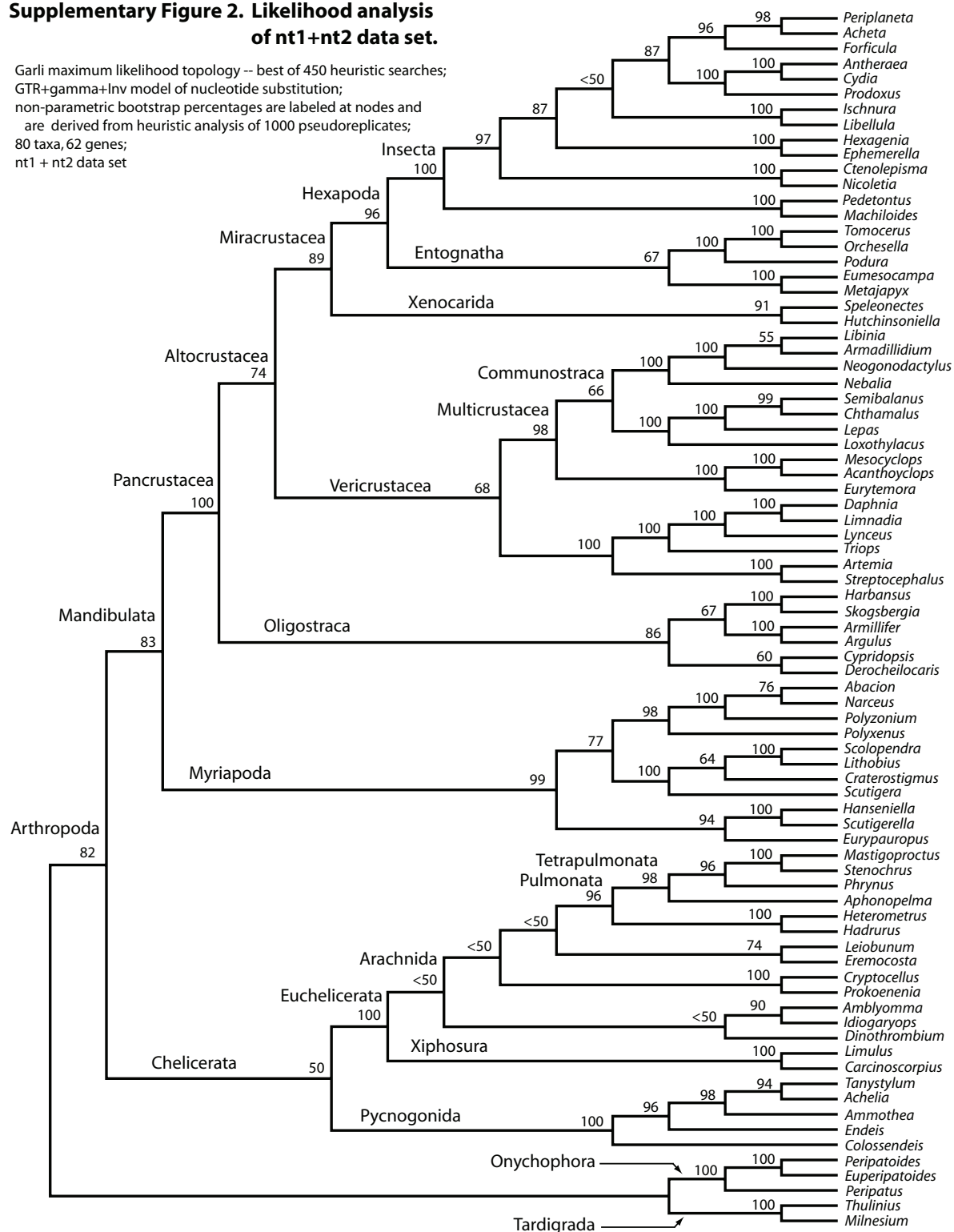


SUPPLEMENTARY INFORMATION

Supplementary Figure 1. Flow chart of activities leading to the phylogenetic trees of Figures 1 & 2.

Supplementary Figure 2. Likelihood analysis of nt1+nt2 data set.

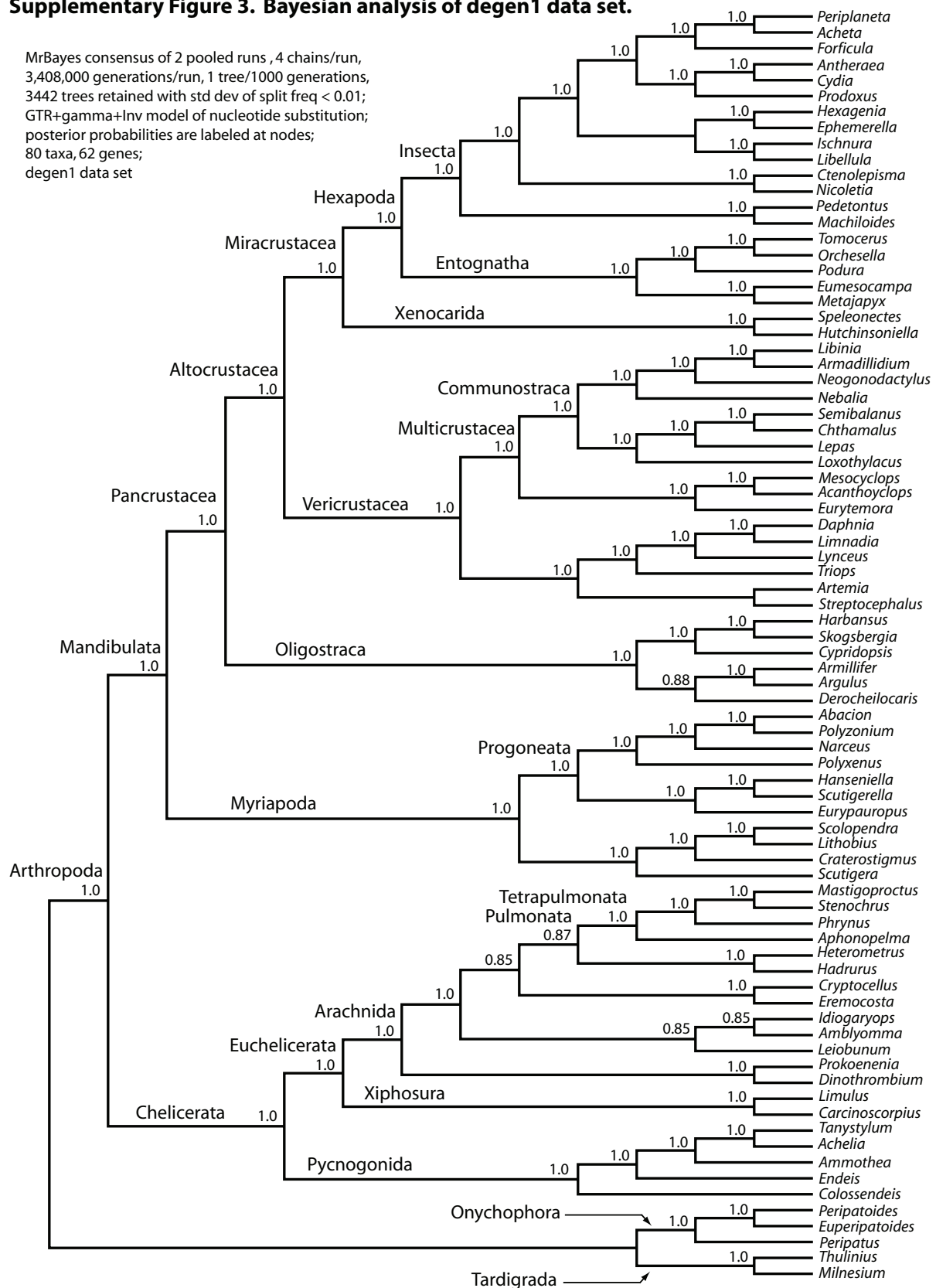
Garli maximum likelihood topology -- best of 450 heuristic searches;
GTR+gamma+Inv model of nucleotide substitution;
non-parametric bootstrap percentages are labeled at nodes and
are derived from heuristic analysis of 1000 pseudoreplicates;
80 taxa, 62 genes;
nt1 + nt2 data set



Commentary on Supplementary Figure 2: For comparison, 34 out of 37 pancrustacean nodes and 67 out of the 77 total nodes found in Figure 1 of the main text are also present in this figure, including all six higher-level pancrustacean clades of note, namely, Altocrustacea, Vericrustacea, Multicrustacea, Communostraca, Xenocarida and Miracrustacea. For these six nodes, bootstrap values are modest to strong but are consistently somewhat lower than for the degen1 data set shown in Figure 1. Note also that node support for Mandibulata, for Symphyla (represented by *Hanseniella* and *Scutigera*) + Pauropoda (represented by *Euryrauopus*) and for Pulmonata remains high (93%, 94% and 96%, respectively).

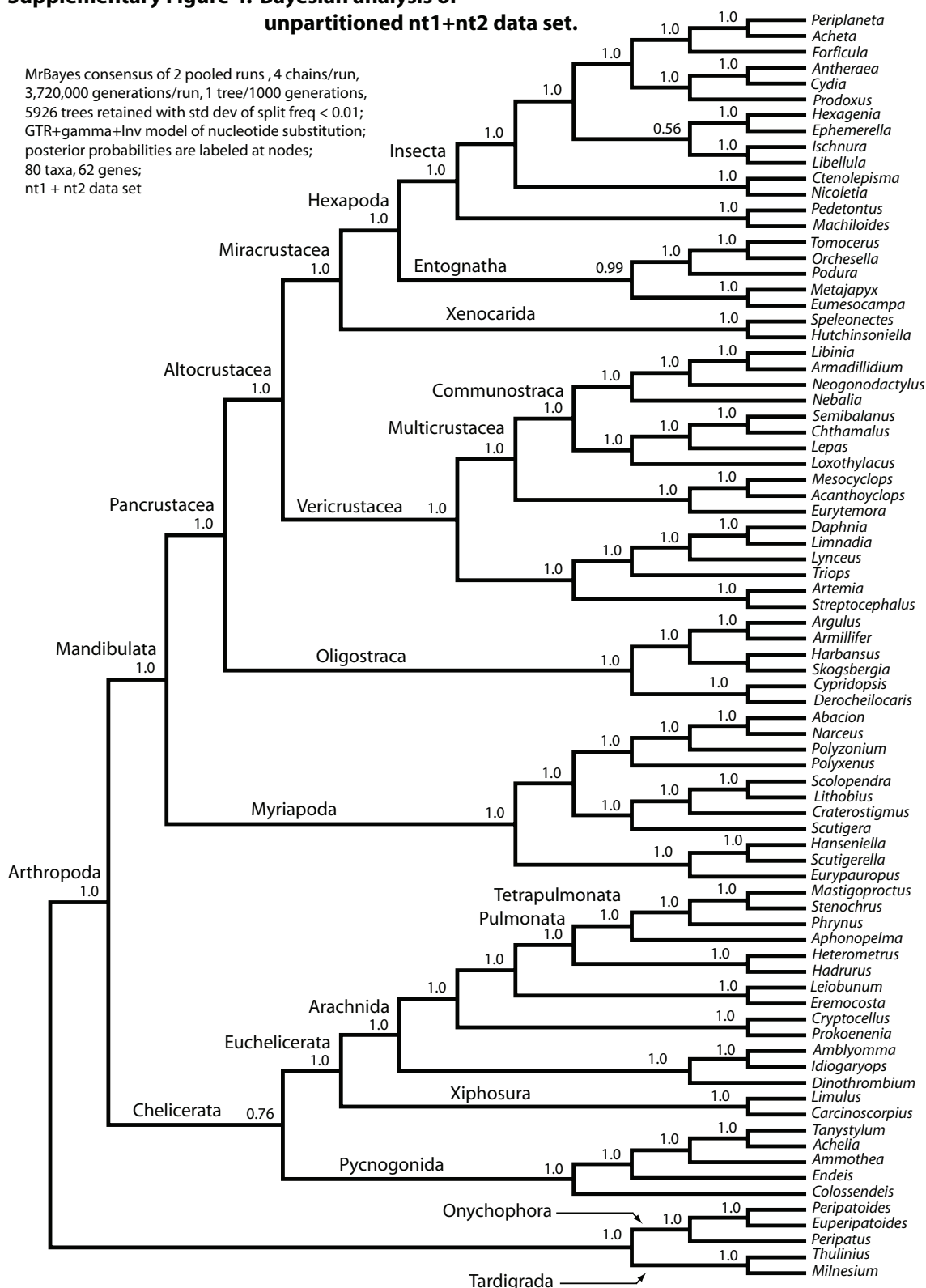
Supplementary Figure 3. Bayesian analysis of degen1 data set.

MrBayes consensus of 2 pooled runs, 4 chains/run,
3,408,000 generations/run, 1 tree/1000 generations,
3442 trees retained with std dev of split freq < 0.01;
GTR+gamma+Inv model of nucleotide substitution;
posterior probabilities are labeled at nodes;
80 taxa, 62 genes;
degen1 data set



Commentary on Supplementary Figure 3: For comparison, the topology in this figure is identical to that in Figure 1 of the main text. Only one node in Pancrustacea and four nodes within Arachnida have posterior probabilities that are less than 1.0.

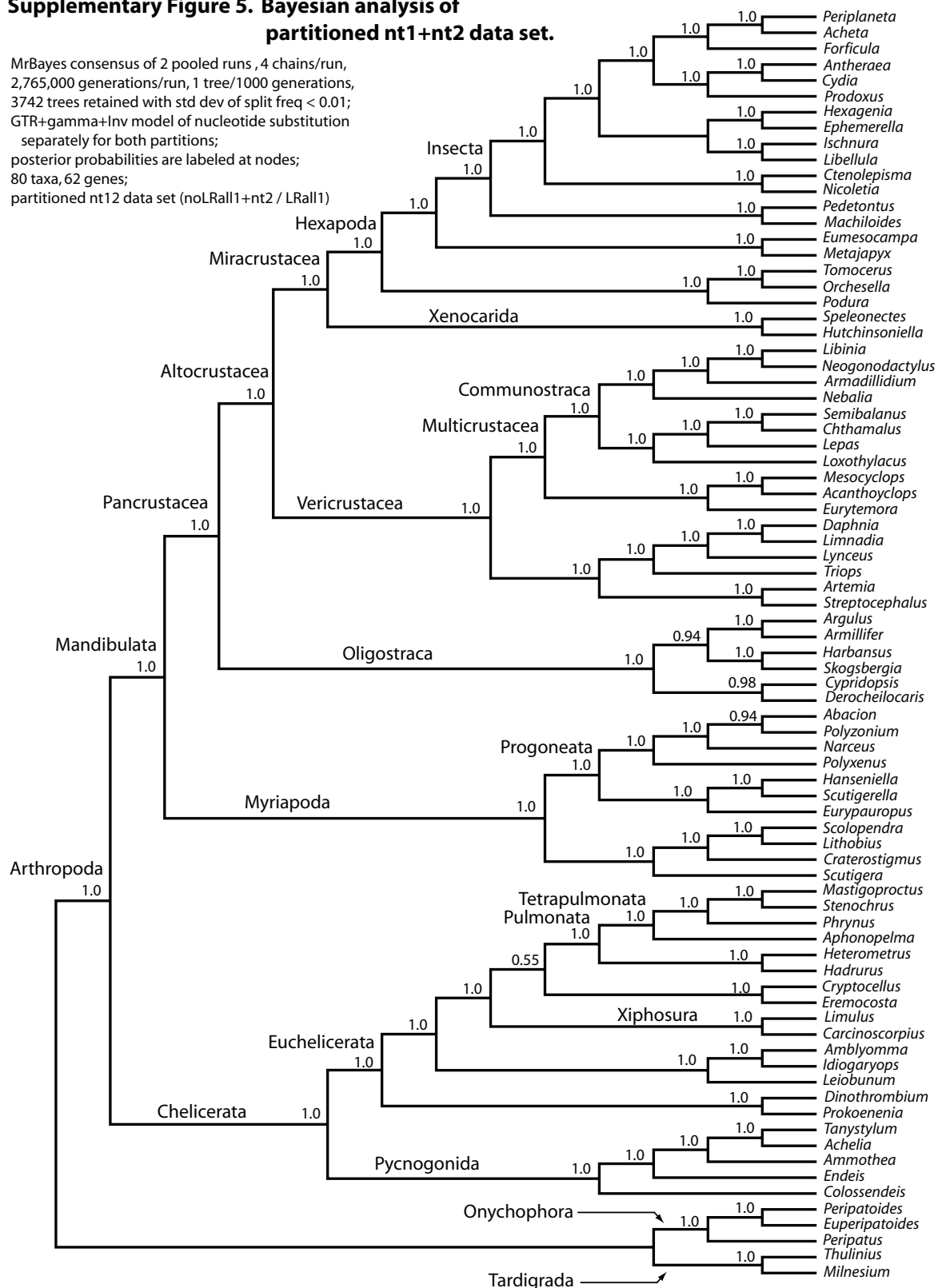
Supplementary Figure 4. Bayesian analysis of unpartitioned nt1+nt2 data set.



Commentary on Supplementary Figure 4: For comparison, 35 out of 37 pancrustacean nodes and 68 out of the 77 total nodes found in Figure 1 of the main text are also present in this figure, including all six higher-level pancrustacean clades of note, namely, Altocrustacea, Vericrustacea, Multicrustacea, Communostraca, Xenocarida and Miracrustacea. Only two nodes in Pancrustacea and one node in Chelicerata have posterior probabilities that are less than 1.0.

Supplementary Figure 5. Bayesian analysis of partitioned nt1+nt2 data set.

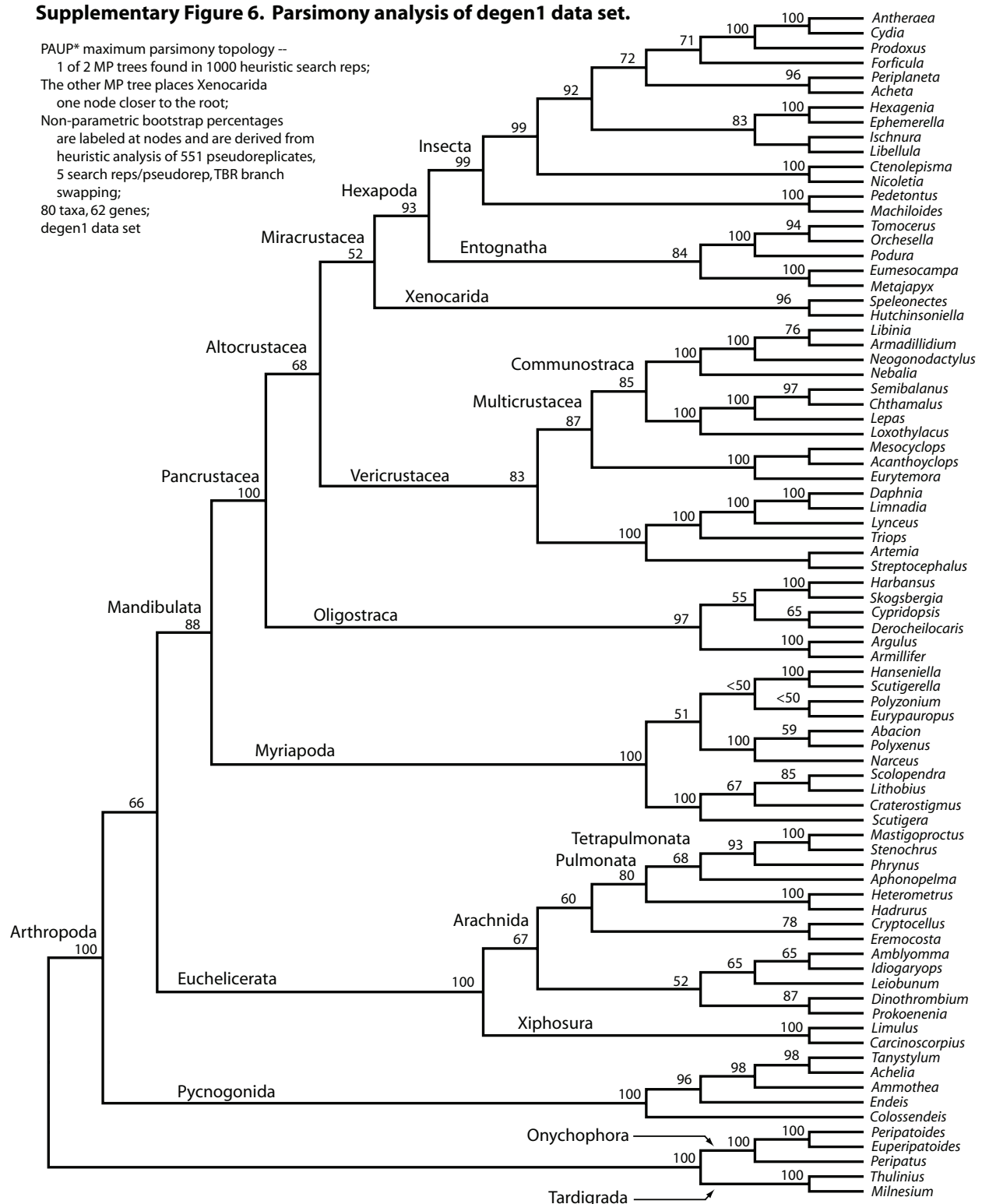
MrBayes consensus of 2 pooled runs, 4 chains/run, 2,765,000 generations/run, 1 tree/1000 generations, 3742 trees retained with std dev of split freq < 0.01; GTR+gamma+Inv model of nucleotide substitution separately for both partitions; posterior probabilities are labeled at nodes; 80 taxa, 62 genes; partitioned nt12 data set (noLRall1+nt2 / LRall1)



Commentary on Supplementary Figure 5: For comparison, 33 out of 37 pancrustacean nodes and 71 out of the 77 total nodes found in Figure 1 of the main text are also present in this figure, including all six higher-level pancrustacean clades of note, namely, Altocrustacea, Vericrustacea, Multicrustacea, Communostraca, Xenocarida and Miracrustacea. Only two nodes in Pancrustacea and one each in Myriapoda and Euchelicerata have posterior probabilities that are less than 1.0.

Supplementary Figure 6. Parsimony analysis of degen1 data set.

PAUP* maximum parsimony topology --
 1 of 2 MP trees found in 1000 heuristic search reps;
 The other MP tree places Xenocarida
 one node closer to the root;
 Non-parametric bootstrap percentages
 are labeled at nodes and are derived from
 heuristic analysis of 551 pseudoreplicates,
 5 search reps/pseudorep, TBR branch
 swapping;
 80 taxa, 62 genes;
 degen1 data set



Commentary on Supplementary Figure 6: For comparison, 35 out of 37 pancrustacean nodes and 72 out of the 77 total nodes found in Figure 1 of the main text are also present in this figure, including all six higher-level pancrustacean clades of note, namely, Altocrustacea, Vericrustacea, Multicrustacea, Communostraca, Xenocarida and Miracrustacea. Of the six nodes, Altocrustacea and Miracrustacea show the greatest difference in bootstrap values between likelihood and parsimony analyses (93% vs. 68% and 94% vs. 52%, respectively; cf. Fig. 1 of the main text and this figure).

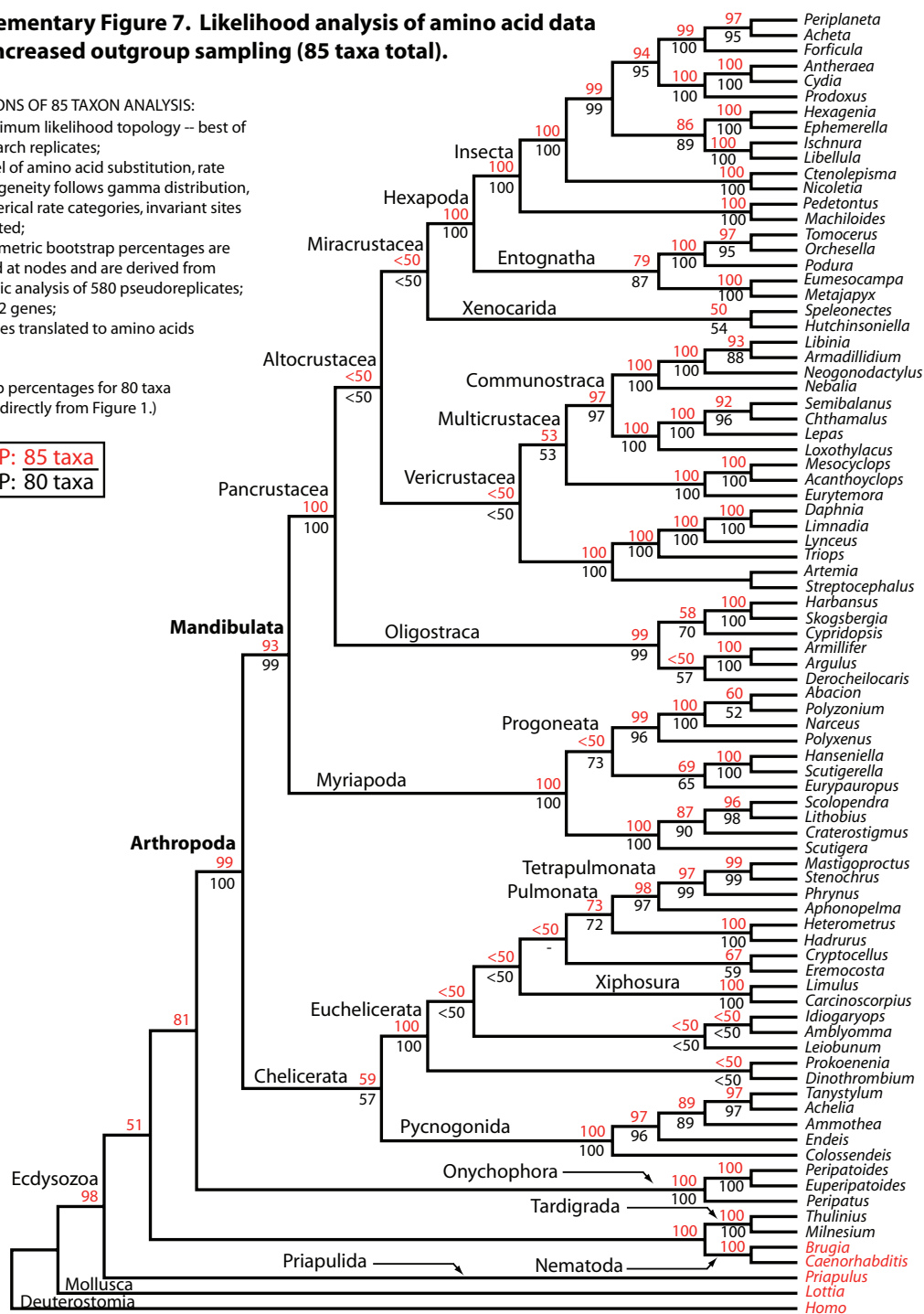
Supplementary Figure 7. Likelihood analysis of amino acid data with increased outgroup sampling (85 taxa total).

CONDITIONS OF 85 TAXON ANALYSIS:

Garli maximum likelihood topology -- best of 215 search replicates;
 JTT model of amino acid substitution, rate heterogeneity follows gamma distribution, 4 numerical rate categories, invariant sites estimated;
 non-parametric bootstrap percentages are labeled at nodes and are derived from heuristic analysis of 580 pseudoreplicates;
 85 taxa, 62 genes;
 nucleotides translated to amino acids in Garli

(Bootstrap percentages for 80 taxa are taken directly from Figure 1.)

BP: 85 taxa
 BP: 80 taxa



Commentary on Supplementary Figure 7: In this likelihood analysis of amino acids, the outgroup shown in Figure 1 of the main text (namely, 3 spp. Onychophora and 2 spp. Tardigrada) was supplemented with two Nematoda, one Priapulida, one Mollusca and one Deuterostomia species to test whether an expansion of the outgroup would dramatically affect node support values within Arthropoda, particularly for the more inclusive groups such as Mandibulata. It did not. Indeed, the expanded outgroup resulted in no topological changes within Arthropoda relative to the 80-taxon analysis except for one weakly supported node (BP <50%) within Euchelicerata (see "-"). Bootstrap values for the 85-taxon analysis are in red (above branches); those for the 80-taxon analysis are in black (below branches, see also Fig. 1 of the main text). Both sets of values are mapped onto the ML topology for 85 taxa. Details of supplementary sequence acquisition, including their database accession numbers, are in Supplementary Table 5.

Supplementary Table 1. Exemplar species used in this study, showing distribution across higher taxa and laboratory codename.

ARTHROPODA

Pancrustacea: Hexapoda

Entognatha

Collembola

Poduridae: *Podura aquatica* (Paq)Entomobryidae: *Orchesella imitari* (Oim)Tomoceridae: *Tomocerus* sp. (Tom)

Diplura

Japygidae: *Metajapyx subterraneus* (Msu & Jap)Campodeidae: *Eumesocampa frigilis* (Efr)

Insecta

Archaeognatha

Pedetontus saltator (Psa)*Machiloides banksi* (Mba)

Zygentoma

Ctenolepisma lineata (Cli)*Nicoletia meinerti* (Nme)

Pterygota: Paleoptera: Ephemeroptera

Hexagenia limbata (May)*Ephemerella inconstans* (Ein)

Pterygota: Paleoptera: Odonata

Ischnura verticalis (Ive)*Libellula lydia* (Lly)

Pyterygota: Neoptera: Polyneoptera

Dermaptera: *Forficula auricularia* (Fau)Blattodea: *Periplaneta americana* (Pam)Orthoptera: *Acheta domesticus* (Ado)

Pterygota: Neoptera: Lepidoptera

Antheraea paukstadtorum (Apauk)*Cydia pomonella* (Cpo)*Prodoxus quinquepunctella* (Pqu)

Pancrustacea: former "Crustacea"

Xenocarida: Remipedia

Speleonectes tulumensis (Stu)

Xenocarida: Cephalocarida

Hutchinsoniella macracantha (Hma)

Vericrustacea: Malacostraca

Phyllopoda: *Nebalia hessleri* (Nhe)Hoplocarida: *Neogonodactylus oerstedii* (Neo)Peracarida: *Armadillidium vulgare* (Avu)Eucarida: *Libinia emarginata* (Lem)

Vericrustacea: Thecostraca ("Maxillopoda")

Sessilia: *Semibalanus balanoides* (Bba)Sessilia: *Chthamalus fragilis* (Cfr)Pedunculata: *Lepas anserifera* (Lean)Rhizocephala: *Loxothylacus texanus* (Lox)

Vericrustacea: Copepoda ("Maxillopoda")

Cyclopoida: *Mesocyclops edax* (Meso)Cyclopoida: *Acanthocyclops vernalis* (A369)

- Calanoida: *Eurytemora affinis* (Eaf)
- Vericrustacea: Branchiopoda
 - Notostraca: *Triops longicaudatus* (Tlo)
 - Anostraca: *Artemia salina* (Asa3)
 - Anostraca: *Streptocephalus seali* (ufs)
 - Cladocera: *Daphnia magna* (Dma)
 - Spinicaudata: *Limnadia lenticularis* (Lle)
 - Laevicaudata: *Lynceus* sp. (Lyn)
- Oligostraca
 - Ostracoda
 - Podocopa: *Cypridopsis vidua* (Ost)
 - Myodocopa: *Harbansus paucichelatus* (Hapa)
 - Myodocopa: *Skogsbergia lernerii* (Skle)
 - Branchiura: *Argulus* sp. (Arg2)
 - Pentastomida: *Armillifer armillatus* (Aar)
 - Mystacocarida: *Derocheilocaris typicus* (Dty)
- Myriapoda
 - Chilopoda
 - Lithobiomorpha: *Lithobius forficatus* (Lfo)
 - Scutigermorpha: *Scutigera coleoptrata* (Scol)
 - Scolopendromorpha: *Scolopendra polymorpha* (Spo)
 - Craterostigmomorpha: *Craterostigmus tasmanianus* (Ctas)
 - Diplopoda
 - Spirobolida: *Narceus americanus* (Nam)
 - Callipodida: *Abacion magnum* (Ama)
 - Polyzoniida: *Polyzonium germanicum* (Pge2)
 - Polyxenida: *Polyxenus fasciculatus* (Pol2)
 - Symphyla
 - Hanseniella* sp. (Han & Han2)
 - Scutigera* sp. (Scu3)
 - Pauropoda
 - Eurypauropus spinosus* (Eury)
- Euchelicerata
 - Arachnida
 - Thelyphonida: *Mastigoproctus giganteus* (Mga)
 - Scorpiones: *Hadrurus arizonensis* (Hari)
 - Scorpiones: *Heterometrus spinifer* (Hsp)
 - Araneae: *Aphonopelma chalcodes* (Ach)
 - Acari: Parasitiformes: *Amblyomma* sp. (Amb2)
 - Ricinulei: *Cryptocellus centralis* (Crp)
 - Acari: Acariformes: *Dinotrombium pandorae* (Din)
 - Amblypygi: *Phrynus marginemaculatus* (Pma)
 - Schizomida: *Stenochrus portoricensis* (Stp)
 - Solifugae: *Eremocosta gigasella* (Egig)
 - Pseudoscorpiones: *Idiogaryops pumilis* (Ipum)
 - Opiliones: *Leiobunum nigripes* (Lnig) [N.B.: recently established as junior synonym of *L. verrucosum*]
 - Palpigrada: *Prokoenenia wheeleri* (Pwh)
 - Xiphosura
 - Limulus polyphemus* (Lpo)
 - Carcinoscorpius rotundicauda* (Cro)

Pycnogonida

Tanystylum orbiculare (Tor)

Achelia echinata (Aeli)

Colossendeis sp. (Col)

Endeis laevis (Ele)

Ammothea hilgendorfi (Ahi)

ONYCHOPHORA

Peripatopsidae: *Euperipatoides rowelli* (Erw & Ero)

Peripatopsidae: *Peripatoides novaezealandiae* (Pno2)

Peripatidae: *Peripatus* sp. (Pep & Per2)

TARDIGRADA

Eutardigrada: Parachela: *Thulinus stephaniae* (Thul) [N.B.: The genus name has recently been changed from *Thulinia* to *Thulinus*.]

Eutardigrada: Apochela: *Milnesium tardigradum* (Mta & Mtd & Hyp)

Supplementary Table 2. Chi-Square Test results for combined- and single-gene-region data, using PAUP*4.0b10 (ref. 36), and sequences missing for particular taxa. The unalignable portion of the data matrix was removed prior to running these tests.

data set P value (68 gene regions)

nt123	< 0.0001
nt12	< 0.0001
nt1	< 0.0001
nt2	0.5085
nt3	< 0.0001
noLRall1	0.9870
LRall1	< 0.0001
noLRall1+nt2	0.1450

P value (single gene regions)

	<u>nt12</u>	<u>noLRall1+nt2</u>	<u>Sequences missing</u>
charset 109fin1_2 = 1-711;	> 0.9999	> 0.9999	Meso Nhe A369 Bba Cfr Dma Hma Lyn Skle Efr Lly Nme Ahi Ipum
charset 113fin1_2 = 718-1722;	> 0.9999	> 0.9999	Asa3 Bba Hma May Tom2 Hapa Pol2 Pno2 Ahi Amb2 Egig
charset 127fin1_2 = 1729-2196;	> 0.9999	> 0.9999	Meso Cpo A369 Cfr Eaf Hma Lean Lem Spo Aar Hapa Skle Pno2 Ctas2 Din2 Dty Ipum Pwh Stp
charset 149fin2_3 = 2203-3195;	> 0.9999	> 0.9999	Thul Apauk Cpo Pqu Hma Jap Scol Hapa Ein Pge2 Pno2 Erw Mtd Pep
charset 166fin2_3 = 3202-3546;	> 0.9999	> 0.9999	Psa
charset 192fin1_2 = 3553-3975;	> 0.9999	> 0.9999	Paq Stu Thul A369 Hma Lean Oim Aar Ado Ive Lly Ama Pno2 Avu3 Col2 Mtd
charset 197fin1_2 = 3982-4434;	> 0.9999	> 0.9999	Meso Stu Thul Asa3 Cfr Pam Tom2 ufs Hapa Lox Skle Ama Pno2 Dty Ele Ipum Mtd Pwh
charset 220fin1_2 = 4441-4992;	> 0.9999	> 0.9999	Mga Paq Thul A369 Cli Eaf Hma Jap Aar Hapa Lox Lyn Skle Pno2 Cro2 Ipum Mtd
charset 226fin1_2 = 4999-5673;	> 0.9999	> 0.9999	Fau Meso Pqu Cfr Hma Hap Ado Pno2
charset 247fin1_2 = 5680-6174;	> 0.9999	> 0.9999	Lfo Nhe Pqu Arg2 Bba Lem Aar Hapa Lyn Skle Mba Pge2 Pno2 Amb2 Col2 Cro2 Crp2 Dty Egig Lle2 Mtd Stp
charset 25fin2_4 = 6181-6486;	> 0.9999	> 0.9999	Nhe Cfr Hma Lean Neo Aar Ach Hapa Skle Avu3

charset 262fin1_2 = 6493-7089;	> 0.9999	> 0.9999	Paq Thul Bba May Hapa Efr Amb2 Ctas2 Mtd
charset 265fin2_3 = 7096-7572;	> 0.9999	> 0.9999	Cfr Scol Spo ufs Aar Ach Hapa Ado Amb2 Col2 Cro2 Dty Ele Ipum Lle2
charset 267fin2_3 = 7579-8187;	> 0.9999	> 0.9999	Stu Hari Aar Hapa Lly Dty
charset 268fin1_2 = 8194-8988;	> 0.9999	> 0.9999	Nhe Thul Tor Asa3 Bba Cfr Cli Hari Hma Hsp Lean Lem Jap Neo Spo Aar Ach Hapa Efr Pno2 Avu3 Dty Ele Eury Mtd Pma2
charset 26fin3_4 = 8995-9726;	> 0.9999	> 0.9999	Fau Mga Nhe Stu Apauk Cpo Pqu Cfr Hma Jap Neo Oim Psa Efr Mtd
charset 270fin2_3 = 9733-10206;	> 0.9999	> 0.9999	Nhe Thul A369 Arg2 Asa3 Hma ufs Aar Efr Ein Ama Pge2 Pol2 Scu3 Pno2 Aeli Ahi Eury Ipum Lle2 Mtd Pep Pwh
charset 274fin1_2 = 10213-10752;	> 0.9999	> 0.9999	Lpo Nhe Paq Stu Thul Tor Cli Eaf Hari Jap Neo Oim Psa Tom2 Hapa Lnig Efr Mba Nme Pno2 Aeli Ahi Avu3 Col2 Cro2 Egig Ele Erw Ipum Mtd Pma2 Stp
charset 2fin3_4 = 10759-11292;	> 0.9999	> 0.9999	May
charset 2fin7_8 = 11299-11919;	> 0.9999	> 0.9999	Paq A369 Cfr Dma Hma Lean Jap Oim Tom2 Hapa Pge2 Aeli Col2 Cro2 Dty Egig Ele Lle2 Mtd Pwh Stp Fau
charset 3006fin1_2 = 11926-12147;	> 0.9999	> 0.9999	Asa3 Dma Lyn Cro2 Din2 Dty Egig Ipum Lle2 Mtd Pma2 Pwh Stp
charset 3007fin1_2 = 12154-12783;	0.9855	> 0.9999	Mga Thul Tor Asa3 Cli Hari Hma Lean Aar Skle Ein Pol2 Pno2 Aeli Col2 Cro2 Ele Mtd Stp
charset 3009fin2_3 = 12790-13161;	> 0.9999	> 0.9999	Bba Cfr Lean Pam Hapa Lox Lly Ama Pol2 Pno2 Amb2 Cro2 Eury Lle2
charset 3012fin1_2 = 13168-13692;	> 0.9999	> 0.9999	Nam Pqu Lean May Pam Aar Ach Lnig Ive Lly Pge2 Pno2 Crp2 Dty Egig
charset 3017fin1_2 = 13699-14307;	> 0.9999	> 0.9999	Meso Bba Cfr Cli Hma Lean Oim Aar Hapa Lyn Han2 Pno2 Ahi Amb2 Col2 Din2 Lle2 Mtd
charset 3031fin2_3 = 14314-14916;	> 0.9999	> 0.9999	Fau Stu Tlo Apauk A369 Eaf Hma May Ach Hapa Skle Ado Ein Pol2 Pno2 Aeli Cro2 Erw Mtd Pep Pwh
charset 3031fin4_5 = 14923-15348;	> 0.9999	> 0.9999	A369 Arg2 Hma Lem May ufs Skle Ein Nme Pge2 Cro2 Mtd Pwh
charset 3044fin1_2 = 15355-15678;	> 0.9999	> 0.9999	A369 Bba Hari Hsp Lean Pam Hapa Aeli Dty Egig Eury Pma2

charset 3055fin2_3 = 15685-15930;	> 0.9999	> 0.9999	Ost Tor Asa3 Spo ufs Aar Hapa Lox Lly Mba Pge2 Pol2 Dty Egig Ipum Lle2
charset 3059fin1_3 = 15937-16686;	> 0.9999	> 0.9999	May Hapa Lox Lyn Mba Han2 Pge2 Pol2 Scu3 Pno2 Cro2 Ele
charset 3064fin6_7 = 16693-17298;	> 0.9999	> 0.9999	Apauk Cpo Lem Mba Cro2 Dty
charset 3066fin1_3 = 17305-18051;	> 0.9999	> 0.9999	Meso Paq Thul Apauk Asa3 Bba Cfr Dma Hma Lean Jap ufs Hapa Lox Mba Han2 Scu3 Pno2 Aeli Ahi Din2 Dty Ele Eury
charset 3070fin4_5 = 18058-18777;	> 0.9999	> 0.9999	Meso Nhe Ost Tor Bba Hma Lean Jap Hapa Efr Ein Mba Nme Pno2 Aeli Ahi Amb2 Col2 Ctas2 Dty Ele Pol2
charset 3089fin2_3 = 18784-19092;	> 0.9999	> 0.9999	Dma Pam Lox Mba Pol2
charset 3094fin2_3 = 19099-19497;	> 0.9999	> 0.9999	Fau Nhe Tlo Apauk Cpo A369 May Tom2 Aar Ein Mba Pno2 Avu3
charset 3114fin1_2 = 19504-19881;	> 0.9999	> 0.9999	Lpo Nhe Apauk Dma Hari Hma Hsp Oim Aar Ach Hapa Lyn Skle Mba Ama Pol2 Amb2 Col2 Cro2 Dty Mtd Pep Pma2 Stp
charset 3121fin2_3 = 19888-20343;	> 0.9999	> 0.9999	Lpo Paq Tlo Cpo Bba Cfr Eaf Hsp Lean Oim Tom2 Hapa Lox Mba Nme Ama Pol2 Col2 Cro2 Dty
charset 3136fin1_2 = 20350-21201;	> 0.9999	> 0.9999	Hapa Scu3 Pno2 Dty
charset 3152fin1_2 = 21208-21486;	> 0.9999	> 0.9999	Tor Cfr Cli Lem Hapa Lox Mba Aeli Ahi Dty Ele Eury Pwh Stp
charset 3153fin1_2 = 21493-22059;	> 0.9999	> 0.9999	Hma Jap Lnig Efr Crp2 Dty Mtd Pwh
charset 3196fin1_3 = 22066-22608;	> 0.9999	> 0.9999	Lean Hapa Cro2 Egig Erw Pep
charset 3196fin5_6 = 22615-23334;	> 0.9999	> 0.9999	A369 Hapa Erw Mtd
charset 3202fin1_3 = 23341-23859;	> 0.9999	> 0.9999	Ost A369 Asa3 Cfr Hari Hsp Neo ufs Hapa Din2 Egig Ele Ipum
charset 36fin1_2 = 23866-24363;	> 0.9999	> 0.9999	Ost Thul A369 Arg2 Cfr Hma Hsp Oim Aar Ach Hapa Efr Crp2 Dty Egig Ele Mtd
charset 40fin2_3 = 24370-25131;	> 0.9999	> 0.9999	Cfr Tom2 Hapa Aeli Dty Ele
charset 42fin1_2 = 25138-25986;	> 0.9999	> 0.9999	Hma Hapa Lnig Efr Pno2 Eury Ipum Mtd
charset 44fin2_3 = 25993-26520;	> 0.9999	> 0.9999	A369 Arg2 Hma Lean Oim Psa Aar Efr Pno2 Dty Egig Ele Erw Eury
charset 58fin3_6 = 26527-27462;	> 0.9999	> 0.9999	A369 Arg2 Asa3 Cfr Hma Jap Oim Pno2 Cro2

			Ipum Pep
charset 58fin7_9 = 27469-27807;	> 0.9999	> 0.9999	Lpo Thul Tor Asa3 Hari Hsp Aar Hapa Lyn Efr Cro2 Egig Ipum Mtd Pma2
charset 62fin2_3 = 27814-28647;	> 0.9999	> 0.9999	Lpo Mga Bba Cfr Hari Hma Hsp Lean Jap Hapa Lox Ado Efr Scu3 Pno2 Pma2 Stp
charset 63fin2_3 = 28654-29178;	> 0.9999	> 0.9999	Hari Hsp Skle Efr Amb2
charset 69fin2_3 = 29185-29856;	> 0.9999	> 0.9999	Dma Hma Hapa Lyn Efr Mba Ipum Pwh
charset 6fin2_3 = 29863-30204;	> 0.9999	> 0.9999	Mga Nam Stu Apauk A369 Asa3 Cli Eaf Hma Lean May Jap Spo Hapa Lyn Skle Ado Ive Lly Nme Pge2 Pno2 Aeli Din2 Egig Ele Lle2 Pwh Stp
charset 73fin2_3 = 30211-31089;	> 0.9999	> 0.9999	Paq Apauk Hma Lean Jap Oim Hapa Lox Efr Pno2 Dty Lle2 Mtd
charset 8018fin1_2 = 31096-31398;	> 0.9999	> 0.9999	Meso Ost Paq Stu Thul Tlo A369 Bba Lem Neo Aar Lox Ado Efr Mba Han2 Pge2 Pol2 Aeli Ahi Avu3 Dty Ele Erw Eury Mtd
charset 8028fin1_2 = 31405-31728;	> 0.9999	> 0.9999	Fau Lpo Meso A369 Arg2 Asa3 Cli Dma Lean May Neo Pam Tom2 ufs Aar Lnig Lyn Efr Ein Mba Nme Pol2 Avu3 Cro2 Din2 Egig Eury Ipum
charset 8029fin6_7 = 31735-32277;	> 0.9999	> 0.9999	Lfo Lpo Ost Stu Apauk Cfr Lean Lyn Skle Cro2 Mtd
charset 8053fin2_3 = 32284-32856;	> 0.9999	> 0.9999	Meso Thul A369 Arg2 Dma Eaf Hapa Mba Pge2 Ctas2 Lle2 Mtd Stp
charset 8070fin1_3 = 32863-33405;	> 0.9999	> 0.9999	Paq Thul Tor Arg2 Asa3 Neo Oim Tom2 ufs Skle Han2 Pno2 Aeli Avu3 Col2 Dty Egig Ele Erw Mtd Stp
charset 8091fin1_2 = 33412-34080;	> 0.9999	> 0.9999	Lfo Thul Arg2 Bba Cfr Cli Dma Hma Lean May Oim Scol Spo Tom2 Hapa Skle Ado Efr Ama Scu3 Aeli Col2 Crp2 Ctas2 Dty Ele Erw Eury Ipum Mtd Pma2
charset 96fin1_3 = 34087-34548;	> 0.9999	> 0.9999	Spo Skle Pol2 Aeli Cro2 Dty Ele Ipum Lle2
charset acc2_4 = 34555-35085;	> 0.9999	> 0.9999	May Jap Aar Ach Hapa Lnig Lox Lyn Skle Ado Efr Ein Ive Lly Mba Nme Ama Han2 Pge2 Pol2 Scu3

charset aspek11_12 = 35092-35694;	> 0.9999	> 0.9999	Tlo A369 Hsp Aar Ach Hapa Lnig Lox Lyn Skle Ado Efr Ein Ive Lly Mba Nme Ama Han2 Pge2 Pol2 Scu3 Pno2 Erw Eury Ipum Pma2 Stp
charset aspek19_21 = 35701-36210;	> 0.9999	> 0.9999	Meso Mga Cpo Pqu A369 Hari Hsp Aar Ach Hapa Lnig Lox Lyn Skle Ado Efr Ein Ive Lly Mba Nme Ama Pge2 Pol2 Scu3 Cro2 Pma2 Stp
charset aspek2_6 = 36217-36513;	> 0.9999	> 0.9999	Meso Thul Tlo Apauk Cpo Pqu A369 Asa3 Eaf Aar Ach Hap Lnig Lox Lyn Skle Ado Efr Ein Ive Lly Mba Nme Ama Han2 Pge2 Pol2 Scu3 Pno2 Din2 Dty Eury Ipum Lle2 Mtd Pep Pma2 Pwh Stp
charset efla = 36520-37611;	> 0.9999	> 0.9999	
charset ef2 = 37618-39843;	> 0.9999	> 0.9999	Apauk Cpo Pqu Ive Pno2
charset polii = 39850-41976;	> 0.9999	> 0.9999	Apauk Cpo Pqu Col2 Dty Jap (partial sequence) Pno2 (partial sequence)

Supplementary Table 3. Taxonomic groups recovered with $\geq 70\%$ bootstrap support in single-gene-region, degen1-data-matrix, likelihood analyses, with **summary** below.*

2fin3 4: Asa3 + ufs (95%) Hari + Hsp (70%) Psa + Mba (87%) Hapa + Skle (72%) Han2 + Scu3 (88%) Fau + Pam + Ado (88%) Nam + Ama + Pge2 (76%) Apauk + Cpo + Pqu (79%) Pep + Pno2 + Erw (98%) Pno2 + Erw (81%) Eaf + Meso + A369 (84%) Meso + A369 (96%) Nhe + Avu3 + Lem + Neo (96%) Avu3 + Lem + Neo (79%) **Lem + Neo (82%)** Lox + Bba + Cfr + Lean (80%) Bba + Cfr + Lean (70%)

2fin7 8: Mga + Pma2 (82%) Tor + Ahi (94%) Asa3 + ufs (100%) Bba + Lox (71%) Hari + Hsp (74%) May + Ein (76%) Psa + Mba (94%) Ive + Lly (91%) Pqu + Apauk + Cpo (100%) Pep + Pno2 + Erw (90%) Nhe + Lem + Neo + Avu3 (100%)

6fin: Lpo + Cro2 (100%) **Paq + Tom2 (84%)** Bba + Cfr (85%) Hari + Hsp (96%)

25fin: Thul + Mtd (76%) Meso + A369 (100%) May + Ein (100%) Ive + Lly (100%) Han2 + Scu3 (70%) Cpo + Apauk + Pqu (98%) **Apauk + Pqu (70%)** Hari + Hsp (77%) Bba + Lox (94%) **Eaf + Lem (70%)**

26fin: Lpo + Cro2 (71%) Paq + Tom2 (92%) Asa3 + ufs (74%) Hari + Hsp (70%) Lem + Avu3 (97%) May + Ein (90%) Hapa + Skle (99%) Eaf + Meso + A369 (77%) Meso + A369 (92%) Bba + Lean + Lox (84%) Lyn + Dma + Lle2 (70%) Pno2 + Erw + Pep (90%) Tor + Aeli + Ahi + Col2 + Ele (97%)

36fin: Pep + Pno2 + Erw (100%) Pno2 + Erw (85%) Paq + Tom2 (96%) Asa3 + ufs (99%) Psa + Mba (100%) **Spo + Ctas (82%)** Pqu + Apauk + Cpo (80%) Apauk + Cpo (96%) Lean + Bba + Lox (100%) Nhe + Avu3 + Lem + Neo (89%) **Lem + Neo (70%)** **Han2 + Scu3 + Aeli + Ahi + Tor + Col2 (72%)** Aeli + Ahi + Tor + Col2 (97%) **Tor + Col2 (75%)** Mga + Hari + Amb2 + Din2 + Pma2 + Pwh + Stp + Lpo + Cro2 + Lnig + Ipum = Euchelicerata (97%) Lpo + Cro2 (72%)

40fin: Thul + Mtd (88%) Lpo + Cro2 (97%) Asa3 + ufs (85%) Hari + Hsp (99%) May + Ein (99%) Pam + Ado (82%) Psa + Mba (100%) Ive + Lly (94%) Han2 + Scu3 (72%) Erw + Pep (93%) Mga + Stp (94%) Col2 + Tor + Ahi (71%) Tor + Ahi (93%) Pqu + Apauk + Cpo (95%) Apauk + Cpo (94%) Lean + Bba + Lox (89%) Lem + Avu3 + Nhe + Neo (81%) **Nhe + Neo (71%)** Tlo + Lyn + Dma + Lle2 (78%) Dma + Lle2 (96%)

42fin: Lpo + Cro2 (100%) Asa3 + ufs (100%) Hari + Hsp (100%) May + Ein (100%) Psa + Mba (100%) Ive + Lly (100%) Han2 + Scu3 (81%) Erw + Pep (100%) Meso + A369 + Eaf (100%) Lyn + Dma + Lle2 (82%) Dma + Lle2 (97%) Neo + Lem + Avu3 (94%) Lem + Avu3 (91%) Lean + Cfr + Bba + Lox (100%) **Cfr + Bba + Lox (78%)** **Bba + Lox (94%)** Aeli + Ahi + Ele + Tor + Col2 (97%) Paq + Oim + Tom2 (97%) Oim + Tom2 (74%) Apauk + Cpo + Pqu (99%)

44fin: Lpo + Cro2 (96%) **Tor + Ahi (71%)** Asa3 + ufs (100%) May + Ein (97%) Ive + Lly (91%) Han2 + Scu3 (77%) Pqu + Apauk + Cpo (70%) Apauk + Cpo (99%) Lox + Bba + Cfr (78%) Bba + Cfr (88%) Scol + Spo + Lfo + Ctas2 (76%) **Mga + Pma2 (72%)** Hari + Hsp (98%) Nhe + Lem + Neo + Avu3 (75%)

58fin3 6: Thul + Mtd (99%) Thul + Mtd + Erw (72%) Meso + Eaf (72%) Paq + Tom2 (72%) May + Ein (90%) Psa + Mba (94%) Aar + Dty (81%) Hapa + Skle (96%) Han2 + Scu3 (99%) Pge2 + Nam + Ama (91%) Bba + Lean + Lox (99%) Ive + Lly (92%) Apauk + Cpo + Pqu (100%) Nhe + Lem + Neo + Avu3 (100%) Tor + Aeli + Ahi + Col2 + Ele (100%) Mga + Stp (92%) Hari + Hsp (86%)

58fin7 9: Pno2 + Erw (92%) Pno2 + Erw + Pep (100%) May + Ein (90%) Ive + Lly (95%) A369 + Meso + Eaf (86%) **Meso + Eaf (72%)** Lox + Cfr + Bba + Lean (97%) **Bba + Lean (92%)** Ele + Aeli + Ahi + Col2 (77%) **Ahi + Col2 (74%)**

62fin: Thul + Mtd (98%) May + Ein (82%) Psa + Mba (75%) Ive + Lly (81%) Paq + Oim + Tom2 (97%) Oim + Tom2 (71%) Pqu + Apauk + Cpo (100%) Meso + A369 (98%) Nhe + Lem + Neo + Avu3 (91%) Erw + Pep (99%) Col2 + Ele + Tor + Aeli + Ahi (95%)

63fin: Thul + Mtd (100%) Pno2 + Erw + Pep (92%) Thul + Mtd + Pno2 + Erw + Pep (71%) Han2 + Scu3 (98%) Scol + Spol + Lfo + Ctas (87%) Col2 + Ele + Aeli + Tor + Ahi (94%) Ele + Aeli + Tor + Ahi (71%) Lpo + Cro2 (99%) Ach + Mga + Pma2 + Stp (75%) Mga + Pma2 + Stp (76%) Pancrustracea -- 42 taxa (71%) Asa3 + ufs (100%) May + Ein (84%) Pam + Ado (74%) Psa + Mba (93%) Ive + Lly (92%) Tom2 + Paq + Oim (84%) Pqu + Apauk + Cpo (92%) Apauk + Cpo (70%) Lox + Lean + Bba + Cfr (100%) Bba + Cfr (73%) **Eaf + Meso + A369 + Nhe + Avu3 + Lem + Neo (72%)** Eaf + Meso + A369 (92%) Avu3 + Lem + Neo (85%) **Lem + Neo (89%)**

69fin: Thul + Mtd (99%) Meso + A369 (100%) Asa3 + ufs (100%) May + Ein (98%) Ive + Lly (96%) Han2 + Scu3 (92%) Paq + Oim + Tom2 (90%) Cpo + Apauk + Pqu (99%) Lean + Bba + Cfr (85%) Pep + Pno2 + Erw (100%) Pno2 + Erw (95%) Col2 + Tor + Aeli + Ahi + Ele (77%) Euchelicerata -- 13 taxa (77%) Lpo + Cro2 (100%) Hari + Hsp (99%)

73fin: Lpo + Cro2 (100%) Cpo + Pqu (99%) Bba + Cfr (100%) Hari + Hsp (96%) May + Ein (98%) Psa + Mba (89%) **Lnig + Egig (70%)** Ive + Lly (96%) Erw + Pep (96%) Eaf + Meso + A369 (71%) Meso + A369 (98%) Tor + Aeli + Ahi + Col2 + Ele (96%) **Lyn + Asa3 + ufs (77%)** Asa3 + ufs (100%)

96fin: **Amb2 + Pwh (90%)** Meso + A369 (87%) Paq + Oim + Tom2 (88%)

109fin: Thul + Mtd (100%) Lpo + Cro2 (100%) Mga + Stp (82%) Asa3 + ufs (92%) Hari + Hsp (97%) Lean + Lox (96%) May + Ein (96%) Psa + Mba (91%) **Pol2 + Eury (71%)** Fau + Pam + Ado (80%) Nam + Ama + Pge2 (70%) Paq + Oim + Tom2 (100%) Oim + Tom2 (87%) Pqu + Apauk + Cpo (100%) Apauk + Cpo (100%) Neo + Lem + Avu3 (99%) Pno2 + Erw + Pep (99%) Col2 + Ele + Tor + Aeli (95%) Ele + Tor + Aeli (84%) Tor + Aeli (87%)

113fin: Thul + Mtd (100%) Han2 + Scu3 (99%) Lfo + Spo (98%) Lpo + Cro2 (100%) Hari + Hsp (99%) Erw + Pep (100%) Tor + Aeli + Col2 + Ele (100%) Pancrustacea -- 38 taxa (100%) Paq + Oim (100%) Jap + Efr (84%) Eaf + Meso + A369 (100%) Meso + A369 (100%) Lox + Cfr + Lean (100%) Cfr + Lean (98%) Dma + Lle2 (90%) Nhe + Lem + Neo + Avu3 (88%) Psa + Mba (100%) Pqu + Apauk + Cpo (99%) Apauk + Cpo (72%)

127fin: Thul + Mtd (98%) **Nam + Pge2 (86%)** **Paq + Oim (80%)** Apauk + Pqu (100%) Asa3 + ufs (97%) May + Ein (100%) Psa + Mba (95%) Ive + Lly (74%) Tor + Aeli + Ahi + Col2 + Ele (97%) Lpo + Cro2 (94%) Hari + Hsp (99%)

149fin: Tor + Aeli + Ahi + Ele + Col2 (100%) Han2 + Scu3 (100%) **Lfo + Spo + Ctas + Eury (74%)** Nam + Ama (81%) **Amb2 + Din2 (78%)** Lpo + Cro2 (100%) Hari + Hsp (100%) Meso + A369 (100%) Lem + Avu3 + Neo + Nhe (100%) Lem + Avu3 + Neo (96%) Lem + Avu3 (76%) Asa3 + ufs (100%) Dma + Lle2 (92%) Bba + Cfr + Lean + Lox (100%) Bba + Cfr + Lean (84%) Psa + Mba (100%) Insecta -- 10 taxa (96%) Dicondylia -- 8 taxa (85%) Fau + May + Ive + Lly (86%) Ive + Lly (100%) Oim + Tom2 + Paq (100%) Oim + Tom2 (97%) Meso + A369 + Eaf (99%) Lfo + Spo + Ctas (74%)

166fin: Thul + Mtd (75%) Meso + A369 (97%) Asa3 + ufs (97%) Bba + Cfr + Lean (79%)

192fin: Erw + Pep (95%) Lpo + Cro2 (74%) Apauk + Cpo (87%) Asa3 + ufs (99%) Bba + Cfr (98%) Hari + Hsp (95%) Psa + Mba (78%) Hapa + Skle (88%) Han2 + Scu3 (76%) Nhe + Lem + Neo (94%) Lem + Neo (80%) Ele + Tor + Aeli + Ahi (88%)

197fin: Erw + Pep (96%) Lpo + Cro2 (99%) Paq + Oim (100%) Bba + Lean (97%) Hari + Hsp (99%) Psa + Mba (98%) Ive + Lly (93%) Pqu + Apauk + Cpo (99%) Lfo + Scol + Spo + Ctas2 (79%) Nhe + Neo + Lem + Avu3 (91%) Neo + Lem + Avu3 (78%) Lem + Avu3 (80%) Col2 + Tor + Aeli + Ahi (100%) Tor + Aeli + Ahi (78%)

220fin: Erw + Pep (98%) Asa3 + ufs (100%) Hari + Hsp (95%) Psa + Mba (99%) Han2 + Scu3 (86%) Nam + Ama + Pge2 (89%) Bba + Cfr + Lean (100%) Lem + Neo (70%) Col2 + Tor + Aeli + Ahi + Ele (92%) Tor + Aeli + Ahi + Ele (72%) Oim + Tom2 (84%) Pqu + Apauk + Cpo (99%) Apauk + Cpo (79%)

226fin: Thul + Mtd (86%) Lpo + Cro2 (100%) Asa3 + ufs (100%) Hari + Hsp (98%) May + Ein (90%) Psa + Mba (100%) Ive + Lly (100%) Erw + Pep (96%) Ama + Nam + Pge2 (82%) Nam + Pge2 (71%) Lox + Bba + Lean (75%) Bba + Lean (90%) Lyn + Dma + Lle2 (99%) Apauk + Cpo (100%) Paq + Oim + Tom2 (93%) Tor + Aeli + Ahi + Col2 + Ele (96%)

247fin: Meso + A369 (99%) Apauk + Cpo (98%) Cfr + Lean (99%) Hari + Hsp (93%) May + Ein (97%) Pam + Ado (88%) Ive + Lly (75%) Han2 + Scu3 (76%) Erw + Pep (70%) Paq + Oim + Tom2 (76%) Oim + Tom2 (84%) Ahi + Tor + Aeli + Ele (80%)

262fin: Pep + Pno2 + Erw (97%) Lpo + Cro2 (100%) Asa3 + ufs (100%) Hari + Hsp (100%) Oim + Tom2 (100%) Psa + Mba (100%) Ive + Lly (92%) Meso + A369 (99%) Pqu + Apauk + Cpo (100%) Apauk + Cpo (71%) Lean + Cfr + Lox (100%) Nhe + Lem + Neo + Avu3 (98%)

265fin: Meso + A369 (96%) Hari + Hsp (98%) Psa + Mba (97%) Ahi + Tor + Aeli (98%) Tor + Aeli (84%) Pqu + Apauk + Cpo (78%) Bba + Lean (82%) Pno2 + Erw (100%) Nhe + Neo + Lem + Avu3 (75%)

267fin: Meso + A369 (100%) Asa3 + ufs (98%) Cli + Nme (84%) May + Ein (100%) Psa + Mba (98%) Han2 + Scu3 (100%) Lfo + Spo + Ctas2 (78%) Pqu + Apauk + Cpo (98%) Apauk + Cpo (91%) Pep + Pno2 + Erw (85%) Pno2 + Erw (84%) Nhe + Avu3 + Lem + Neo (94%) Lox + Lean + Bba + Cfr (100%) Bba + Cfr (88%) Col2 + Ele + Tor + Aeli + Ahi (88%) Tor + Aeli + Ahi (74%) Euchelicerata -- 14 taxa (72%) Lpo + Cro2 (100%)

268fin: Erw + Pep (91%) Lpo + Cro2 (100%) Han2 + Scu3 (90%) Ctas + Lfo + Scol (72%) **Lfo + Scol (90%)** Col2 + Aeli + Ahi (94%) Aeli + Ahi (77%) Nam + Ama + Pge2 (86%) Eaf + Meso + A369 (97%) Meso + A369 (100%) Paq + Oim + Tom2 (74%) Psa + Mba (100%) May + Ein (99%) Ive + Lly (87%) Pqu + Apauk + Cpo (98%) Apauk + Cpo (95%)

270fin: Lpo + Cro2 (96%) Hari + Hsp (80%) Psa + Mba (73%) Ive + Lly (98%) Col2 + Tor + Ele (72%) Lem + Neo + Avu3 (92%) Lean + Lox + Bba + Cfr (71%)

274fin: Meso + A369 (100%) Asa3 + ufs (100%) Han2 + Scu3 (74%) Pqu + Apauk + Cpo (100%) Apauk + Cpo (100%) Lean + Bba + Cfr (89%) Bba + Cfr (94%)

3006fin: Hari + Hsp (86%) Erw + Pno2 + Pep (97%) Col2 + Ele + Tor + Aeli + Ahi (78%) May + Ein (72%) Psa + Mba (99%) Ive + Lly (94%) Nhe + Lem + Neo + Avu3 (72%) Lox + Lean + Bba + Cfr (77%)

3007fin: Meso + A369 (100%) Nhe + Lem (74%) May + Lly (79%) Psa + Mba (99%) Paq + Oim + Tom2 (76%) Pqu + Apauk + Cpo (78%) Apauk + Cpo (100%) Cfr + Bba + Lox (99%) Scol + Ctas + Lfo + Spo (74%)

3009fin: Asa3 + ufs (95%) Hari + Hsp (84%) Tor + Aeli + Ahi + Col2 + Ele (94%)

3012fin: Lfo + Ctas (85%) Lpo + Cro2 (88%) Meso + A369 (100%) Asa3 + ufs (99%) Cli + Nme (80%) Hari + Hsp (99%) Psa + Mba (100%) Hapa + Skle (88%) Erw + Pep (92%) Apauk + Cpo (100%) Lox + Bba + Cfr (96%) Nhe + Lem + Neo + Avu3 (75%) Ele + Col2 + Ahi + Tor + Aeli (73%)

3017fin: Lpo + Cro2 (97%) Asa3 + ufs (100%) Hari + Hsp (98%) May + Ein (99%) Psa + Mba (100%) Erw + Pep (99%) Nam + Ama + Pge2 (78%) Aeli + Tor + Ele (89%) Pqu + Apauk + Cpo (100%) Apauk + Cpo (89%)

3031fin2_3: Hari + Hsp (100%) Jap + Efr (89%) Oim + Paq + Tom2 (98%) Paq + Tom2 (98%) Scol + Lfo + Spo + Ctas (84%) Lem + Nhe + Neo + Avu3 (88%) Col2 + Tor + Ahi + Ele (85%) Lox + Lean + Bba + Cfr (100%) Lean + Bba + Cfr (91%) Bba + Cfr (87%) **Han2 + Scu3 + Pge2 + Nam + Ama (78%)** Han2 + Scu3 (93%) Pge2 + Nam + Ama (95%) Asa3 + ufs + Lyn + Dma + Lle2 (83%) Asa3 + ufs (100%) Lyn + Dma + Lle2 + Meso (92%) Dma + Lle2 (92%) Psa + Mba (98%) Cpo + Pqu (100%) Ive + Lly (100%)

3031fin4_5: Nhe + Avu3 (74%) Dma + Lle2 (70%) Psa + Mba (99%) Ive + Lly (99%) Han2 + Scu3 (96%) Paq + Oim + Tom2 (99%) Apauk + Cpo + Pqu (90%) Pep + Pno2 + Erw (100%) Pno2 + Erw (99%) Bba + Cfr + Lean (74%) Arachnida -- 12 taxa (88%)

3044fin: Lpo + Cro2 (94%) Meso + Eaf (76%) Asa3 + ufs (90%) Ive + Lly (98%) Pqu + Apauk + Cpo (96%) Apauk + Cpo (76%) Pep + Pno2 + Erw (87%) Pno2 + Erw (87%) Tlo + Lyn + Dma + Lle2 (77%) Ahi + Tor + Col2 + Ele (79%)

3055fin: Meso + A369 (100%) May + Ein (74%) Han2 + Scu3 (76%) Bba + Cfr (73%) Pep + Pno2 + Erw (71%) Jap + Efr (71%) Paq + Oim + Tom2 (81%)

3059fin: Thul + Mtd (100%) Nam + Ama (75%) Asa3 + ufs (100%) Cli + Nme (70%) Dma + Lle2 (99%) Hari + Hsp (81%) Ive + Lly (95%) Erw + Pep (100%) Ado + Fau + Pam (80%) Eaf + Meso + A369 (100%) Meso + A369 (100%) Mga + Pma2 + Stp (72%) Paq + Oim + Tom2 (100%) Oim + Tom2 (83%) Pqu + Apauk + Cpo (100%) Apauk + Cpo (76%) Lean + Bba + Cfr (100%) Bba + Cfr (72%) Nhe + Lem + Neo + Avu3 (88%) Tor + Aeli + Ahi + Col2 (99%)

3064fin: Thul + Mtd (100%) Pep + Pno2 + Erw (93%) Pno2 + Erw (91%) Tardigrada + Onychophora -- 5 taxa (76%) Asa3 + ufs (91%) Dma + Lle2 (92%) Hari + Hsp (98%) May + Ein (100%) Hapa + Skle (100%) Ive + Lly (92%) Han2 + Scu3 (94%) Eaf + Meso + A369 (74%) Neo + Nhe + Avu3 (87%) Lox + Bba + Cfr + Lean (98%) Bba + Cfr + Lean (86%) Ele + Tor + Aeli + Ahi + Col2 (92%)

3066fin: Erw + Pep (94%) Myriapoda -- 8 taxa (74%) Onychophora + Myriapoda -- 10 taxa (70%) Lpo + Cro2 (100%) Hari + Hsp (100%) Tor + Col2 (88%) Arg2 + Aar (85%) Lem + Avu3 + Neo + Nhe (100%) Lem + Avu3 (87%) Lyn + Lle2 (83%) A369 + Eaf (97%) Oim + Tom2 (73%) May + Ein (90%) Cpo + Pqu (100%) Fau + Ado + Pam (96%) **Fau + Ado (93%)** Ive + Lly (99%)

3070fin: Thul + Mtd (100%) Lpo + Cro2 (98%) Asa3 + ufs (97%) Cfr + Lox (98%) Hari + Hsp (84%) Tom2 + Paq + Oim (87%) Tlo + Lyn + Dma + Lle2 (84%) Lyn + Dma + Lle2 (92%) Fau + Ado (77%) Ive + Lly (98%) Apauk + Cpo (94%)

3089fin: Thul + Mtd (100%) Hapa + Skle (94%) Meso + A369 (99%) Mga + Stp (80%) Asa3 + ufs (100%) Ive + Lly (76%) **Col2 + Ele (74%)** Nam + Ama (74%) Oim + Tom2 (80%) Bba + Cfr + Lean (100%) **Stu + Apauk + Cpo + Pqu (87%)** Apauk + Cpo + Pqu (100%)

3094fin: Meso + Eaf (71%) Asa3 + ufs (82%) Lem + Neo (92%) Hapa + Skle (79%) Erw + Pep (79%) Bba + Cfr + Lean + Lox (78%)

3114fin: Nam + Pge2 (73%) Cpo + Pqu (72%) May + Ein (88%) Ive + Lly (96%) Pno2 + Erw (100%) Spo + Lfo + Ctas (94%) Lfo + Ctas (76%) Bba + Cfr + Lean (70%) Tor + Aeli + Ahi + Ele (95%)

3121fin: Thul + Mtd (77%) Meso + A369 (98%) Apauk + Pqu (99%) Asa3 + ufs (99%) May + Ein (89%) Ive + Lly (78%) Dma + Lle2 (86%) Pep + Pno2 + Erw (82%) Pno2 + Erw (99%) Avu3 + Nhe + Lem + Neo (96%) Nhe + Lem + Neo (90%) Lem + Neo (92%) Ahi + Tor + Aeli + Ele (94%)

3136fin: Thul + Mtd (99%) Lpo + Cro2 (100%) Asa3 + ufs (100%) Hari + Hsp (100%) Jap + Efr (73%) Erw + Pep (99%) Nhe + Neo + Lem + Avu3 (78%) Lean + Lox + Bba + Cfr (82%) Bba + Cfr (78%) Tor + Col2 + Ele + Aeli + Ahi (96%) Insecta -- 14 taxa (100%) May + Ein (99%) Ive + Lly (80%) Neoptera -- 6 taxa (79%) Pam + Ado (91%) Apauk + Cpo + Pqu (100%)

3152fin: Arg2 + Aar (74%) Bba + Lean (82%) Hari + Hsp (91%) May + Ein (92%)

3153fin: Lpo + Cro2 (72%) Meso + A369 (97%) Asa3 + ufs (77%) Hari + Hsp (99%) Psa + Mba (86%) Ive + Lly (78%) Han2 + Scu3 (98%) Cpo + Apauk + Pqu (86%) Cfr + Bba + Lean (92%) Pno2 + Erw + Pep (92%) Col2 + Ele + Tor + Aeli + Ahi (74%) Tor + Aeli + Ahi (75%)

3196fin1 3: Thul + Mtd (99%) Meso + A369 (96%) Asa3 + ufs (70%) Hari + Hsp (95%) May + Ein (93%) Psa + Mba (95%) Paq + Oim + Tom2 (94%) Oim + Tom2 (76%) Lox + Bba + Cfr (100%) Bba + Cfr (94%) Lem + Avu3 + Nhe + Neo (100%) Tor + Ahi + Col2 + Aeli + Ele (91%) **Aeli + Ele (71%)**

3196fin5 6: Lpo + Cro2 (100%) Hari + Hsp (98%) Pno2 + Pep (100%) Pycnogonida -- 5 taxa (100%) Meso + Eaf (98%) Asa3 + ufs (100%) Pam + Ado (74%) Psa + Mba (100%) Ive + Lly (73%) Paq + Oim + Tom2 (71%) Oim + Tom2 (70%) Pqu + Apauk + Cpo (99%) Apauk + Cpo (74%) Lem + Nhe + Neo + Avu3 (100%) **Nhe + Neo + Avu3 (77%)** Dma + Lle2 + Tlo + Lyn (72%) Bba + Cfr + Lean + Lox (98%) Bba + Cfr (72%)

3202fin: Thul + Mtd (99%) Lpo + Cro2 (100%) Meso + Eaf (99%) May + Ein (90%) Psa + Mba (96%) Ive + Lly (100%) Han2 + Scu3 (94%) Nhe + Lem + Avu3 (100%) Paq + Oim + Tom2 (100%) Apauk + Cpo + Pqu (94%) Lox + Bba + Lean (91%) Bba + Lean (81%) Pep + Pno2 + Erw (88%) Pno2 + Erw (100%) Ama + Pge2 (74%) Col2 + Aeli + Tor + Ahi (90%)

8018fin: Lpo + Cro2 (98%) Asa3 + ufs (93%) Cfr + Lean (94%) Hari + Hsp (99%) May + Ein (84%) Oim + Tom2 (100%) Ive + Lly (90%) Pqu + Apauk + Cpo (98%) Apauk + Cpo (96%)

8028fin: Tlo + Lle2 (76%) Bba + Cfr (95%) Hari + Hsp (93%) Hapa + Skle (93%) Pep + Pno2 + Erw (94%) Pno2 + Erw (80%) Ahi + Col2 + Tor + Aeli + Ele (75%) Tor + Aeli + Ele (72%) Aeli + Ele (72%)

8029fin: Cpo + Pqu (98%) Arg2 + Aar (82%) Asa3 + ufs (100%) May + Ein (98%) Psa + Mba (82%) Ive + Lly (86%) Paq + Oim Tom2 (98%) Oim + Tom2 (99%) Pep + Pno2 + Erw (72%) Pno2 + Erw (98%) Meso + A369 (100%) Tor + Aeli + Ahi + Col2 + Ele (99%)

8053fin: Pno2 + Erw + Pep (100%) Pno2 + Erw (97%) Han2 + Scu3 (100%) Ahi + Ele + Col2 + Tor + Aeli (98%) Lpo + Cro2 (96%) Jap + Efr (86%) Asa3 + ufs (100%) Apauk + Cpo + Pqu (100%) Apauk + Cpo (76%) Ive + Lly (100%) May + Ein (100%)

8070fin: Lpo + Cro2 (99%) Meso + A369 (99%) Nhe + Lem (96%) Cli + Nme (78%) Hari + Hsp (95%) May + Ein (98%) Psa + Mba (80%) Ive + Lly (97%) Apauk + Cpo + Pqu (99%) Bba + Cfr + Lean + Lox (96%)

8091fin: Lpo + Cro2 (99%) Nam + Pge2 (81%) Tor + Ahi (100%) Asa3 + ufs (94%) Hari + Hsp (100%) Psa + Mba (96%) Ive + Lly (97%) Eaf + Meso + A369 (82%) Meso + A369 (100%) Apauk + Cpo + Pqu (96%)

acc: Asa3 + ufs (100%) Hari + Hsp (92%) Eaf + Meso + A369 (77%) Meso + A369 (100%) Pqu + Apauk + Cpo (98%) Apauk + Cpo (75%) Lean + Bba + Cfr (100%) Pep + Pno2 + Erw (100%) Pno2 + Erw (81%) Lem + Neo + Nhe + Avu3 (100%) Tor + Ahi + Aeli + Col2 + Ele (100%) **Col2 + Ele (70%)**

aspec2 6: Lpo + Cro2 (98%) Hari + Hsp (97%) Paq + Oim + Tom2 (98%) Lean + Bba + Cfr (97%)

aspec19 21: Thul + Mtd (100%) Pep + Pno2 + Erw (83%) Pno2 + Erw (94%) Thul + Mtd + Pep + Pno2 + Erw (70%) Fau + Pam (86%) Asa3 + ufs (95%) Dma + Lle2 (85%) Paq + Oim + Tom2 (95%) Bba + Cfr + Lean (80%) **Cfr + Lean (71%)** Nhe + Lem + Neo + Avu3 (72%) Col2 + Aeli + Ele + Tor + Ahi (91%) Aeli + Ele + Tor + Ahi (73%)

aspec11 12: Lpo + Cro2 (100%) **Amb2 + Pwh (82%) Lfo + Ctas (83%)** Lfo + Ctas2 + Scol + Spo (70%) Tor + Aeli (74%) Tor + Aeli + Ahi + Ele + Col2 (98%) Neo + Avu3 + Nhe + Lem (99%) **Bba + Lean (89%)** Bba + Lean + Cfr (100%) **Paq + Tom2 (71%)** Paq + Tom2 + Oim (100%) Dma + Lle2 (72%) Asa3 + ufs (93%) Apauk + Cpo + Pqu (100%) Meso + Eaf (79%) Thul + Mtd (100%)

ef2: May + Ein (98%) Psa + Mba (99%) **Paq + Tom2 (70%)** Paq + Tom2 + Oim (93%) Stu + Hma (73%) Asa3 + ufs (100%) Dma + Lle2 (73%) Branchiopoda -- 5 taxa (83%) Arg2 + Aar (86%) Hapa + Ost (97%) Neo + Avu3 + Lem (70%) Neo + Avu3 + Lem + Nhe (100%) **Bba + Lean (90%)** Bba + Lean + Cfr (84%) Bba + Lean + Cfr + Lox (100%) Hari + Hsp (99%) Euchelcerata -- 15 taxa (95%) Lpo + Cro2 (100%) Pycnogonida -- 5 taxa (99%) Tor + Aeli (93%) Tor + Aeli + Ahi + Ele (96%) Myriapoda -- 11 taxa (87%) Han2 + Scu3 (100%) Ama + Pge2 (84%) Ama + Pge2 + Nam (77%) Thul + Mtd (100%) Erw + Pep (99%)

polii: Ive + Lly (99%) May + Ein (100%) Fau + Ado + Pam (76%) Psa + Mba (100%) Paq + Tom2 + Oim (92%) Asa3 + ufs (100%) Dma + Lle2 (89%) Branchipoda -- 6 taxa (91%) Malacostraca -- 4 taxa (100%) Thecostraca -- 4 taxa (100%) Copepoda -- 3 taxa (100%) Meso + A369 (100%) Arg2 + Aar (87%) Hapa + Skle (100%) Pancrustacea -- 40 taxa (100%) Mandibulata -- 51 taxa (70%) Ama + Pge2 (76%) Lfo + Spo (96%) Han2 + Scu3 (100%) Mga + Stp (91%) Hari + Hsp (100%) Lpo + Cro2 (100%) **Din2 + Ipum (90%)** Euchelicerata -- 15 taxa (94%) Chelicerata -- 20 taxa (90%) Pycnogonida -- 5 taxa (100%) **Aeli + Col2 (78%)** Pno2 + Erw (84%) Pno2 + Erw + Pep (100%) Thul + Mtd (95%)

efla: Lpo + Cro2 (100%) Euchelicerata -- 15 taxa (97%) Hari + Hsp (93%) Copepoda -- 3 taxa (93%) Meso + A369 (95%) Diplopoda -- 4 taxa (78%) Malacostraca + Thecostraca -- 8 taxa (76%) Malacostraca -- 4 taxa (100%) Lem + Neo + Avu3 (88%) **Neo + Avu3 (74%)** Thecostraca -- 4 taxa (100%) Bba + Cfr + Lean (96%) Bba + Cfr (97%) **Paq + Tom2 (72%)** Branchiopoda -- 6 taxa (71%) Asa3 + ufs (82%) Pycnogonida -- 5 taxa (99%) **Col2 + Ele (82%)** Apauk + Cpo + Pqu (100%) Cli + Nme (94%) Psa + Mba (96%) May + Ein (94%) Hapa + Skle (100%) Ive + Lly (99%) Han2 + Scu3 (86%) Onychophora -- 3 taxa (96%) Pno2 + Erw (92%) Thul + Mtd (100%)

SUMMARY

- Total number of groups listed that have BP \geq 70% = 899.
- Total number of groups listed that have BP \geq 70% and that are present in combined result with BP \geq 80% = 854. (854/899 = 0.95)
- Total number of groups in single-gene results that have BP \geq 70% and that conflict with nodes that are strongly (BP \geq 80%) supported in the combined result = 39. Note that missing taxa are taken into account in tabulating this statistic.
- Of the 39 distinct, strongly conflicting groups, 30 occur once, three occur three times (Lem + Neo, Bba + Lean, Col + Ele), and one occurs four times (Paq + Tom2).
- Of the 30 distinct, strongly conflicting groups, 7 include >2 terminal taxa, but only one of these (Stu + Apauk + Cpo + Pqu) has BP \geq 80%.

Number of single genes supporting newly named groups (in bold) and other higher-level groups with BP \geq 70% that are also present in combined result:

- **Xenocarida:** 1 (ef2 -- 73%)
- **Altocrustacea:** 0
- **Miracrustacea:** 0
- **Vericrustacea:** 0
- **Multicrustacea:** 0
- **Communostraca:** 1 (ef1a -- 76%)
- Arthropoda: 6 (This is a minimum estimate since only those cases in which there were representatives of Onychophora and Tardigrada were included.)
- Mandibulata: 1 (Pol II -- 70%)
- Pancrustacea: 2
- Myriapoda: 2
- Hexapoda: 0
- Insecta: 2
- Arachnida: 2
- Euchelicerata: 8
- Pycnogonida: 40

*, 500 bootstrap replicates (1 search replicate / bootstrap replicate) were performed for each individual gene segment, using a degen1 data set that was analyzed under a GTR + gamma + invariant model of nucleotide change. Groups in black are present in the single-gene-region results and in the combined-gene results. Groups highlighted in red are not present in the combined result; instead, groups present in the combined result strongly (\geq 80% BP) support an alternative grouping. Groups highlighted in blue are not present in the combined result, but BP support for the combined alternative is low. Proper interpretation of this table requires knowing which taxa failed to yield sequences for particular genes (available in Supplementary Table 2).

Supplementary Table 4. GenBank accession numbers for 80 taxa.

2fin3_4:		HmaCEPHAL	GQ886782
A369COPE	GQ886751	HspARACH	GQ886783
AarPENTA	GQ886752	IpumARACH	GQ886784
AchARACH	GQ886753	IveODONAT	GQ886785
AdoNEOPT	GQ886754	JapDIPLUR	GQ886786
AeliPYCNO	GQ886755	LeanTHECOS	GQ886787
AhiPYCNO	GQ886756	LemMALA	GQ886788
AmaDIPLO	GQ886757	Lle2BRANCH	GQ886789
Amb2ARACH	GQ886758	LlyODONAT	GQ886790
Arg2BIURA	GQ886759	LnigARACH	GQ886791
Asa3BRANCH	GQ886760	LoxTHECOS	GQ886792
Avu3MALA	GQ886761	LynBRANCH	GQ886793
BbaTHECOS	GQ886762	MbaARCHEO	GQ886794
CfrTHECOS	GQ886763	MtdTARD	GQ886795
ClizYGEN	GQ886764	NeoMALA	GQ886796
Col2PYCNO	GQ886765	NmeZYGEN	GQ886797
Cro2XIPHOS	GQ886766	OimCOLL	GQ886798
Crp2ARACH	GQ886767	PamNEOPT	GQ886799
Ctas2CHILO	GQ886768	PepONYCH	GQ886800
Din2ARACH	GQ886769	Pge2DIPLO	GQ886801
DmaBRANCH	GQ886770	Pma2ARACH	GQ886802
DtyMYSTACO	GQ886771	Pno2ONYCH	GQ886803
EafCOPE	GQ886772	Pol2DIPLO	GQ886804
EfrDIPLUR	GQ886773	PsaARCHEO	GQ886805
EgigARACH	GQ886774	PwhARACH	GQ886806
EinEPHEM	GQ886775	ScolCHILO	GQ886807
ElePYCNO	GQ886776	Scu3SYMPH	GQ886808
ErwONYCH	GQ886777	SkleOST	GQ886809
EuryPAURO	GQ886778	SpoCHILO	GQ886810
Han2SYMPH	GQ886779	StpARACH	GQ886811
HapaOST	GQ886780	Tom2COLL	GQ886812
HariARACH	GQ886781	UfsBRANCH	GQ886813

2fin7_8:

AarPENTA	GQ886814
AchARACH	GQ886815
AdoNEOPT	GQ886816
AhiPYCNO	GQ886817
AmaDIPLO	GQ886818
Amb2ARACH	GQ886819
Arg2BIURA	GQ886820
Asa3BRANCH	GQ886821
Avu3MALA	GQ886822
BbaTHECOS	GQ886823
ClizYGEN	GQ886824
Crp2ARACH	GQ886825
Ctas2CHILO	GQ886826
Din2ARACH	GQ886827
EafCOPE	GQ886828
EfrDIPLUR	GQ886829
EinEPHEM	GQ886830
ErwONYCH	GQ886831
EuryPAURO	GQ886832
Han2SYMPH	GQ886833
HariARACH	GQ886834
HspARACH	GQ886835
IpumARACH	GQ886836
IveODONAT	GQ886837
LemMALA	GQ886838
LlyODONAT	GQ886839
LnigARACH	GQ886840
LoxTHECOS	GQ886841
LynBRANCH	GQ886842
MayEPHEM	GQ886843
MbaARCHEO	GQ886844
NeoMALA	GQ886845
NmeZYGEN	GQ886846
PamNEOPT	GQ886847
PepONYCH	GQ886848
Pma2ARACH	GQ886849
Pno2ONYCH	GQ886850
Pol2DIPLO	GQ886851
PsaARCHEO	GQ886852
ScolCHILO	GQ886853
Scu3SYMPH	GQ886854
SkleOST	GQ886855
SpochILO	GQ886856
UfsBRANCH	GQ886857

6fin:

AarPENTA	GQ886858
AchARACH	GQ886859
AhiPYCNO	GQ886860
AmaDIPLO	GQ886861
Amb2ARACH	GQ886862
Arg2BIURA	GQ886863
Avu3MALA	GQ886864
BbaTHECOS	GQ886865
CfrTHECOS	GQ886866
Col2PYCNO	GQ886867
Cro2XIPHOS	GQ886868
Crp2ARACH	GQ886869
Ctas2CHILO	GQ886870
DmaBRANCH	GQ886871
DtyMYSTACO	GQ886872
EfrDIPLUR	GQ886873
EinEPHEM	GQ886874
ErwONYCH	GQ886875
EuryPAURO	GQ886876
Han2SYMPH	GQ886877
HariARACH	GQ886878
HspARACH	GQ886879
IpumARACH	GQ886880
LemMALA	GQ886881
LnigARACH	GQ886882
LoxTHECOS	GQ886883
MbaARCHEO	GQ886884
MtdTARD	GQ886885
NeoMALA	GQ886886
OimCOLL	GQ886887
PamNEOPT	GQ886888
PepONYCH	GQ886889
Pma2ARACH	GQ886890
Pol2DIPLO	GQ886891
PsaARCHEO	GQ886892
ScolCHILO	GQ886893
Scu3SYMPH	GQ886894
Tom2COLL	GQ886895
UfsBRANCH	GQ886896

25fin:

A369COPE	GQ886897
AdoNEOPT	GQ886898
AeliPYCNO	GQ886899
AhiPYCNO	GQ886900
AmaDIPLO	GQ886901
Amb2ARACH	GQ886902
Arg2BIURA	GQ886903
Asa3BRANCH	GQ886904
BbaTHECOS	GQ886905
ClizYGEN	GQ886906
Col2PYCNO	GQ886907
Cro2XIPHOS	GQ886908
Crp2ARACH	GQ886909
Ctas2CHILO	GQ886910
Din2ARACH	GQ886911
DmaBRANCH	GQ886912
DtyMYSTACO	GQ886913
EafCOPE	GQ886914
EfrDIPLUR	GQ886915
EgigARACH	GQ886916
EinEPHEM	GQ886917
ElePYCNO	GQ886918
ErwONYCH	GQ886919
EuryPAURO	GQ886920
Han2SYMPH	GQ886921
HariARACH	GQ886922
HspARACH	GQ886923
IpumARACH	GQ886924
IveODONAT	GQ886925
JapDIPLUR	GQ886926
LemMALA	GQ886927
Lle2BRANCH	GQ886928
LlyODONAT	GQ886929
LnigARACH	GQ886930
LoxTHECOS	GQ886931
LynBRANCH	GQ886932
MayEPHEM	GQ886933
MbaARCHEO	GQ886934
MtdTARD	GQ886935
NmeZYGEN	GQ886936
OimCOLL	GQ886937
PamNEOPT	GQ886938
PepONYCH	GQ886939
Pge2DIPLO	GQ886940
Pma2ARACH	GQ886941
Pno2ONYCH	GQ886942
Pol2DIPLO	GQ886943
PsaARCHEO	GQ886944
PwhARACH	GQ886945
ScolCHILO	GQ886946
Scu3SYMPH	GQ886947
SpoCHILO	GQ886948
StpARACH	GQ886949
Tom2COLL	GQ886950
UfsBRANCH	GQ886951

26fin:

A369COPE	GQ886952
AarPENTA	GQ886953
AchARACH	GQ886954
AdoNEOPT	GQ886955
AeliPYCNO	GQ886956
AhiPYCNO	GQ886957
AmaDIPLO	GQ886958
Amb2ARACH	GQ886959
Arg2BIURA	GQ886960
Asa3BRANCH	GQ886961
Avu3MALA	GQ886962
BbaTHECOS	GQ886963
ClizYGEN	GQ886964
Col2PYCNO	GQ886965
Cro2XIPHOS	GQ886966
Crp2ARACH	GQ886967
Ctas2CHILO	GQ886968
Din2ARACH	GQ886969
DmaBRANCH	GQ886970
DtyMYSTACO	GQ886971
EafCOPE	GQ886972
EgigARACH	GQ886973
EinEPHEM	GQ886974
ElePYCNO	GQ886975
ErwONYCH	GQ886976
EuryPAURO	GQ886977
Han2SYMPH	GQ886978
HapaOST	GQ886979
HariARACH	GQ886980
HspARACH	GQ886981
IpumARACH	GQ886982
IveODONAT	GQ886983
LeanTHECOS	GQ886984
LemMALA	GQ886985
Lle2BRANCH	GQ886986
LlyODONAT	GQ886987
LnigARACH	GQ886988
LoxTHECOS	GQ886989
LynBRANCH	GQ886990
MayEPHEM	GQ886991
MbaARCHEO	GQ886992
NmeZYGEN	GQ886993
PamNEOPT	GQ886994
PepONYCH	GQ886995
Pge2DIPLO	GQ886996
Pma2ARACH	GQ886997
Pno2ONYCH	GQ886998
Pol2DIPLO	GQ886999
PwhARACH	GQ887000
ScolCHILO	GQ887001
Scu3SYMPH	GQ887002
SkleOST	GQ887003
SpoCHILO	GQ887004
StpARACH	GQ887005
Tom2COLL	GQ887006
UfsBRANCH	GQ887007

36fin:

AdoNEOPT	GQ887008
AeliPYCNO	GQ887009
AhiPYCNO	GQ887010
AmaDIPLO	GQ887011
Amb2ARACH	GQ887012
Asa3BRANCH	GQ887013
Avu3MALA	GQ887014
BbaTHECOS	GQ887015
ClizYGEN	GQ887016
Col2PYCNO	GQ887017
Cro2XIPHOS	GQ887018
Ctas2CHILO	GQ887019
Din2ARACH	GQ887020
DmaBRANCH	GQ887021
EafCOPE	GQ887022
EinEPHEM	GQ887023
ErwONYCH	GQ887024
EuryPAURO	GQ887025
Han2SYMPH	GQ887026
HariARACH	GQ887027
IpumARACH	GQ887028
IveODONAT	GQ887029
JapDIPLUR	GQ887030
LeanTHECOS	GQ887031
LemMALA	GQ887032
Lle2BRANCH	GQ887033
LlyODONAT	GQ887034
LnigARACH	GQ887035
LoxTHECOS	GQ887036
LynBRANCH	GQ887037
MayEPHEM	GQ887038
MbaARCHEO	GQ887039
NeoMALA	GQ887040
NmeZYGEN	GQ887041
PamNEOPT	GQ887042
PepONYCH	GQ887043
Pge2DIPLO	GQ887044
Pma2ARACH	GQ887045
Pno2ONYCH	GQ887046
Pol2DIPLO	GQ887047
PsaARCHEO	GQ887048
PwhARACH	GQ887049
ScolCHILO	GQ887050
Scu3SYMPH	GQ887051
SkleOST	GQ887052
SpoCHILO	GQ887053
StpARACH	GQ887054
Tom2COLL	GQ887055
UfsBRANCH	GQ887056

40fin:

A369COPE	GQ887057
AarPENTA	GQ887058
AchARACH	GQ887059
AdoNEOPT	GQ887060
AhiPYCNO	GQ887061
AmaDIPLO	GQ887062
Amb2ARACH	GQ887063
Arg2BIURA	GQ887064
Asa3BRANCH	GQ887065
Avu3MALA	GQ887066
BbaTHECOS	GQ887067
ClizYGEN	GQ887068
Col2PYCNO	GQ887069
Cro2XIPHOS	GQ887070
Crp2ARACH	GQ887071
Ctas2CHILO	GQ887072
Din2ARACH	GQ887073
DmaBRANCH	GQ887074
EafCOPE	GQ887075
EfrDIPLUR	GQ887076
EgigARACH	GQ887077
EinEPHEM	GQ887078
ErwONYCH	GQ887079
EuryPAURO	GQ887080
Han2SYMPH	GQ887081
HariARACH	GQ887082
HmaCEPHAL	GQ887083
HspARACH	GQ887084
IpumARACH	GQ887085
IveODONAT	GQ887086
JapDIPLUR	GQ887087
LeanTHECOS	GQ887088
LemMALA	GQ887089
Lle2BRANCH	GQ887090
LlyODONAT	GQ887091
LnigARACH	GQ887092
LoxTHECOS	GQ887093
LynBRANCH	GQ887094
MayEPHEM	GQ887095
MbaARCHEO	GQ887096
MtdTARD	GQ887097
NeoMALA	GQ887098
NmeZYGEN	GQ887099
OimCOLL	GQ887100
PamNEOPT	GQ887101
PepONYCH	GQ887102
Pge2DIPLO	GQ887103
Pma2ARACH	GQ887104
Pno2ONYCH	GQ887105
Pol2DIPLO	GQ887106
PsaARCHEO	GQ887107
PwhARACH	GQ887108
ScolCHILO	GQ887109
Scu3SYMPH	GQ887110
SkleOST	GQ887111
SpoCHILO	GQ887112
StpARACH	GQ887113
UfsBRANCH	GQ887114

42fin:

A369COPE	GQ887115
AarPENTA	GQ887116
AchARACH	GQ887117
AdoNEOPT	GQ887118
AeliPYCNO	GQ887119
AhiPYCNO	GQ887120
AmaDIPLO	GQ887121
Amb2ARACH	GQ887122
Arg2BIURA	GQ887123
Asa3BRANCH	GQ887124
Avu3MALA	GQ887125
BbaTHECOS	GQ887126
CfrTHECOS	GQ887127
ClizYGEN	GQ887128
Col2PYCNO	GQ887129
Cro2XIPHOS	GQ887130
Crp2ARACH	GQ887131
Ctas2CHILO	GQ887132
Din2ARACH	GQ887133
DmaBRANCH	GQ887134
DtyMYSTACO	GQ887135
EafCOPE	GQ887136
EgigARACH	GQ887137
EinEPHEM	GQ887138
ElePYCNO	GQ887139
ErwONYCH	GQ887140
Han2SYMPH	GQ887141
HariARACH	GQ887142
HspARACH	GQ887143
IveODONAT	GQ887144
JapDIPLUR	GQ887145
LeanTHECOS	GQ887146
LemMALA	GQ887147
Lle2BRANCH	GQ887148
LlyODONAT	GQ887149
LoxTHECOS	GQ887150
LynBRANCH	GQ887151
MayEPHEM	GQ887152
MbaARCHEO	GQ887153
NeoMALA	GQ887154
NmeZYGEN	GQ887155
OimCOLL	GQ887156
PamNEOPT	GQ887157
PepONYCH	GQ887158
Pge2DIPLO	GQ887159
Pma2ARACH	GQ887160
Pol2DIPLO	GQ887161
PsaARCHEO	GQ887162
PwhARACH	GQ887163
ScolCHILO	GQ887164
Scu3SYMPH	GQ887165
SkleOST	GQ887166
SpoCHILO	GQ887167
StpARACH	GQ887168
Tom2COLL	GQ887169
UfsBRANCH	GQ887170

44fin:

AchARACH	GQ887171
AdoNEOPT	GQ887172
AeliPYCNO	GQ887173
AhiPYCNO	GQ887174
AmaDIPLO	GQ887175
Amb2ARACH	GQ887176
Asa3BRANCH	GQ887177
Avu3MALA	GQ887178
BbaTHECOS	GQ887179
CfrTHECOS	GQ887180
ClizYGEN	GQ887181
Col2PYCNO	GQ887182
Cro2XIPHOS	GQ887183
Crp2ARACH	GQ887184
Ctas2CHILO	GQ887185
Din2ARACH	GQ887186
DmaBRANCH	GQ887187
EafCOPE	GQ887188
EinEPHEM	GQ887189
Han2SYMPH	GQ887190
HapaOST	GQ887191
HariARACH	GQ887192
HspARACH	GQ887193
IpumARACH	GQ887194
IveODONAT	GQ887195
JapDIPLUR	GQ887196
LemMALA	GQ887197
Lle2BRANCH	GQ887198
LlyODONAT	GQ887199
LnigARACH	GQ887200
LoxTHECOS	GQ887201
LynBRANCH	GQ887202
MayEPHEM	GQ887203
MbaARCHEO	GQ887204
MtdTARD	GQ887205
NeoMALA	GQ887206
NmeZYGEN	GQ887207
PamNEOPT	GQ887208
PepONYCH	GQ887209
Pge2DIPLO	GQ887210
Pma2ARACH	GQ887211
Pol2DIPLO	GQ887212
PwhARACH	GQ887213
ScolCHILO	GQ887214
Scu3SYMPH	GQ887215
SkleOST	GQ887216
SpoCHILO	GQ887217
StpARACH	GQ887218
Tom2COLL	GQ887219
UfsBRANCH	GQ887220

58fin3_6:

AarPENTA	GQ887221
AchARACH	GQ887222
AdoNEOPT	GQ887223
AeliPYCNO	GQ887224
AhiPYCNO	GQ887225
AmaDIPLO	GQ887226
Amb2ARACH	GQ887227
Avu3MALA	GQ887228
BbaTHECOS	GQ887229
CliZYGEN	GQ887230
Col2PYCNO	GQ887231
Crp2ARACH	GQ887232
Ctas2CHILO	GQ887233
Din2ARACH	GQ887234
DmaBRANCH	GQ887235
DtyMYSTACO	GQ887236
EafCOPE	GQ887237
EfrDIPLUR	GQ887238
EgigARACH	GQ887239
EinEPHEM	GQ887240
ElePYCNO	GQ887241
ErwONYCH	GQ887242
EuryPAURO	GQ887243
Han2SYMPH	GQ887244
HapaOST	GQ887245
HariARACH	GQ887246
HspARACH	GQ887247
IveODONAT	GQ887248
LeanTHECOS	GQ887249
LemMALA	GQ887250
Lle2BRANCH	GQ887251
LlyODONAT	GQ887252
LnigARACH	GQ887253
LoxTHECOS	GQ887254
LynBRANCH	GQ887255
MayEPHEM	GQ887256
MbaARCHEO	GQ887257
MtdTARD	GQ887258
NeoMALA	GQ887259
NmeZYGEN	GQ887260
PamNEOPT	GQ887261
Pge2DIPLO	GQ887262
Pma2ARACH	GQ887263
Pol2DIPLO	GQ887264
PsaARCHEO	GQ887265
PwhARACH	GQ887266
ScolCHILO	GQ887267
Scu3SYMPH	GQ887268
SkleOST	GQ887269
SpoCHILO	GQ887270
StpARACH	GQ887271
Tom2COLL	GQ887272
UfsBRANCH	GQ887273

58fin7_9:

A369COPE	GQ887274
AchARACH	GQ887275
AdoNEOPT	GQ887276
AeliPYCNO	GQ887277
AhiPYCNO	GQ887278
AmaDIPLO	GQ887279
Amb2ARACH	GQ887280
Arg2BIURA	GQ887281
Avu3MALA	GQ887282
BbaTHECOS	GQ887283
CfrTHECOS	GQ887284
ClizYGEN	GQ887285
Col2PYCNO	GQ887286
Crp2ARACH	GQ887287
Ctas2CHILO	GQ887288
Din2ARACH	GQ887289
DmaBRANCH	GQ887290
DtyMYSTACO	GQ887291
EafCOPE	GQ887292
EinEPHEM	GQ887293
ElePYCNO	GQ887294
ErwONYCH	GQ887295
EuryPAURO	GQ887296
Han2SYMPH	GQ887297
HmaCEPHAL	GQ887298
IveODONAT	GQ887299
JapDIPLUR	GQ887300
LeanTHECOS	GQ887301
LemMALA	GQ887302
Lle2BRANCH	GQ887303
LlyODONAT	GQ887304
LnigARACH	GQ887305
LoxTHECOS	GQ887306
MayEPHEM	GQ887307
MbaARCHEO	GQ887308
NeoMALA	GQ887309
NmeZYGEN	GQ887310
OimCOLL	GQ887311
PamNEOPT	GQ887312
PepONYCH	GQ887313
Pge2DIPLO	GQ887314
Pno2ONYCH	GQ887315
Pol2DIPLO	GQ887316
PsaARCHEO	GQ887317
PwhARACH	GQ887318
ScolCHILO	GQ887319
Scu3SYMPH	GQ887320
SkleOST	GQ887321
SpoCHILO	GQ887322
StpARACH	GQ887323
Tom2COLL	GQ887324
UfsBRANCH	GQ887325

62fin:

A369COPE	GQ887326
AarPENTA	GQ887327
AchARACH	GQ887328
AeliPYCNO	GQ887329
AhiPYCNO	GQ887330
AmaDIPLO	GQ887331
Amb2ARACH	GQ887332
Arg2BIURA	GQ887333
Asa3BRANCH	GQ887334
Avu3MALA	GQ887335
ClizYGEN	GQ887336
Col2PYCNO	GQ887337
Cro2XIPHOS	GQ887338
Crp2ARACH	GQ887339
Ctas2CHILO	GQ887340
Din2ARACH	GQ887341
DmaBRANCH	GQ887342
DtyMYSTACO	GQ887343
EafCOPE	GQ887344
EgigARACH	GQ887345
EinEPHEM	GQ887346
ElePYCNO	GQ887347
ErwONYCH	GQ887348
EuryPAURO	GQ887349
Han2SYMPH	GQ887350
IpumARACH	GQ887351
IveODONAT	GQ887352
LemMALA	GQ887353
Lle2BRANCH	GQ887354
LlyODONAT	GQ887355
LnigARACH	GQ887356
LynBRANCH	GQ887357
MayEPHEM	GQ887358
MbaARCHEO	GQ887359
MtdTARD	GQ887360
NeoMALA	GQ887361
NmeZYGEN	GQ887362
OimCOLL	GQ887363
PamNEOPT	GQ887364
PepONYCH	GQ887365
Pge2DIPLO	GQ887366
Pol2DIPLO	GQ887367
PsaARCHEO	GQ887368
PwhARACH	GQ887369
ScolCHILO	GQ887370
SkleOST	GQ887371
SpoCHILO	GQ887372
Tom2COLL	GQ887373
UfsBRANCH	GQ887374

63fin:

A369COPE	GQ887375
AarPENTA	GQ887376
AchARACH	GQ887377
AdoNEOPT	GQ887378
AeliPYCNO	GQ887379
AhiPYCNO	GQ887380
AmaDIPLO	GQ887381
Arg2BIURA	GQ887382
Asa3BRANCH	GQ887383
Avu3MALA	GQ887384
BbaTHECOS	GQ887385
CfrTHECOS	GQ887386
ClizYGEN	GQ887387
Col2PYCNO	GQ887388
Cro2XIPHOS	GQ887389
Crp2ARACH	GQ887390
Ctas2CHILO	GQ887391
Din2ARACH	GQ887392
DmaBRANCH	GQ887393
DtyMYSTACO	GQ887394
EafCOPE	GQ887395
EgigARACH	GQ887396
EinEPHEM	GQ887397
ElePYCNO	GQ887398
ErwONYCH	GQ887399
EuryPAURO	GQ887400
Han2SYMPH	GQ887401
HapaOST	GQ887402
HmaCEPHAL	GQ887403
IpumARACH	GQ887404
IveODONAT	GQ887405
JapDIPLUR	GQ887406
LeanTHECOS	GQ887407
LemMALA	GQ887408
Lle2BRANCH	GQ887409
LlyODONAT	GQ887410
LnigARACH	GQ887411
LoxTHECOS	GQ887412
LynBRANCH	GQ887413
MayEPHEM	GQ887414
MbaARCHEO	GQ887415
MtdTARD	GQ887416
NeoMALA	GQ887417
NmeZYGEN	GQ887418
OimCOLL	GQ887419
PamNEOPT	GQ887420
PepONYCH	GQ887421
Pge2DIPLO	GQ887422
Pma2ARACH	GQ887423
Pno2ONYCH	GQ887424
Pol2DIPLO	GQ887425
PsaARCHEO	GQ887426
PwhARACH	GQ887427
ScolCHILO	GQ887428
Scu3SYMPH	GQ887429
SpoCHILO	GQ887430
StpARACH	GQ887431
Tom2COLL	GQ887432
UfsBRANCH	GQ887433

69fin:

A369COPE	GQ887434
AarPENTA	GQ887435
AchARACH	GQ887436
AdoNEOPT	GQ887437
AeliPYCNO	GQ887438
AhiPYCNO	GQ887439
AmaDIPLO	GQ887440
Amb2ARACH	GQ887441
Arg2BIURA	GQ887442
Asa3BRANCH	GQ887443
Avu3MALA	GQ887444
BbaTHECOS	GQ887445
CfrTHECOS	GQ887446
ClizYGEN	GQ887447
Col2PYCNO	GQ887448
Cro2XIPHOS	GQ887449
Crp2ARACH	GQ887450
Ctas2CHILO	GQ887451
Din2ARACH	GQ887452
DtyMYSTACO	GQ887453
EafCOPE	GQ887454
EgigARACH	GQ887455
EinEPHEM	GQ887456
ElePYCNO	GQ887457
ErwONYCH	GQ887458
EuryPAURO	GQ887459
Han2SYMPH	GQ887460
HariARACH	GQ887461
HspARACH	GQ887462
IveODONAT	GQ887463
JapDIPLUR	GQ887464
LeanTHECOS	GQ887465
LemMALA	GQ887466
Lle2BRANCH	GQ887467
LlyODONAT	GQ887468
LnigARACH	GQ887469
LoxTHECOS	GQ887470
MayEPHEM	GQ887471
MtdTARD	GQ887472
NeoMALA	GQ887473
NmeZYGEM	GQ887474
OimCOLL	GQ887475
PamNEOPT	GQ887476
PepONYCH	GQ887477
Pge2DIPLO	GQ887478
Pma2ARACH	GQ887479
Pno2ONYCH	GQ887480
Pol2DIPLO	GQ887481
PsaARCHEO	GQ887482
ScolCHILO	GQ887483
Scu3SYMPH	GQ887484
SkleOST	GQ887485
SpoCHILO	GQ887486
StpARACH	GQ887487
Tom2COLL	GQ887488
UfsBRANCH	GQ887489

73fin:

A369COPE	GQ887490
AarPENTA	GQ887491
AchARACH	GQ887492
AdoNEOPT	GQ887493
AeliPYCNO	GQ887494
AhiPYCNO	GQ887495
AmaDIPLO	GQ887496
Amb2ARACH	GQ887497
Arg2BIURA	GQ887498
Asa3BRANCH	GQ887499
Avu3MALA	GQ887500
BbaTHECOS	GQ887501
CfrTHECOS	GQ887502
ClizYGEN	GQ887503
Col2PYCNO	GQ887504
Cro2XIPHOS	GQ887505
Crp2ARACH	GQ887506
Ctas2CHILO	GQ887507
Din2ARACH	GQ887508
DmaBRANCH	GQ887509
EafCOPE	GQ887510
EgigARACH	GQ887511
EinEPHEM	GQ887512
ElePYCNO	GQ887513
ErwONYCH	GQ887514
EuryPAURO	GQ887515
Han2SYMPH	GQ887516
HariARACH	GQ887517
HspARACH	GQ887518
IpumARACH	GQ887519
IveODONAT	GQ887520
LemMALA	GQ887521
LlyODONAT	GQ887522
LnigARACH	GQ887523
LynBRANCH	GQ887524
MayEPHEM	GQ887525
MbaARCHEO	GQ887526
NeoMALA	GQ887527
NmeZYGEN	GQ887528
PamNEOPT	GQ887529
PepONYCH	GQ887530
Pge2DIPLO	GQ887531
Pma2ARACH	GQ887532
Pol2DIPLO	GQ887533
PsaARCHEO	GQ887534
PwhARACH	GQ887535
ScolCHILO	GQ887536
Scu3SYMPH	GQ887537
SkleOST	GQ887538
SpoCHILO	GQ887539
StpARACH	GQ887540
Tom2COLL	GQ887541
UfsBRANCH	GQ887542

96fin:

A369COPE	GQ887543
AarPENTA	GQ887544
AchARACH	GQ887545
AdoNEOPT	GQ887546
AhiPYCNO	GQ887547
AmaDIPLO	GQ887548
Amb2ARACH	GQ887549
Arg2BIURA	GQ887550
Asa3BRANCH	GQ887551
Avu3MALA	GQ887552
BbaTHECOS	GQ887553
CfrTHECOS	GQ887554
ClizYGEN	GQ887555
Col2PYCNO	GQ887556
Crp2ARACH	GQ887557
Ctas2CHILO	GQ887558
Din2ARACH	GQ887559
DmaBRANCH	GQ887560
EafCOPE	GQ887561
EfrDIPLUR	GQ887562
EgigARACH	GQ887563
EinEPHEM	GQ887564
ErwONYCH	GQ887565
EuryPAURO	GQ887566
Han2SYMPH	GQ887567
HapaOST	GQ887568
HariARACH	GQ887569
HmaCEPHAL	GQ887570
HspARACH	GQ887571
IveODONAT	GQ887572
JapDIPLUR	GQ887573
LeanTHECOS	GQ887574
LemMALA	GQ887575
LlyODONAT	GQ887576
LnigARACH	GQ887577
LoxTHECOS	GQ887578
LynBRANCH	GQ887579
MayEPHEM	GQ887580
MbaARCHEO	GQ887581
MtdTARD	GQ887582
NeoMALA	GQ887583
NmeZYGEN	GQ887584
OimCOLL	GQ887585
PamNEOPT	GQ887586
PepONYCH	GQ887587
Pge2DIPLO	GQ887588
Pma2ARACH	GQ887589
Pno2ONYCH	GQ887590
PsaARCHEO	GQ887591
PwhARACH	GQ887592
ScolCHILO	GQ887593
Scu3SYMPH	GQ887594
StpARACH	GQ887595
Tom2COLL	GQ887596
UfsBRANCH	GQ887597

109fin:

AarPENTA	GQ887598
AchARACH	GQ887599
AdoNEOPT	GQ887600
AeliPYCNO	GQ887601
AmaDIPLO	GQ887602
Amb2ARACH	GQ887603
Arg2BIURA	GQ887604
Asa3BRANCH	GQ887605
Avu3MALA	GQ887606
CliZYGEN	GQ887607
Col2PYCNO	GQ887608
Cro2XIPHOS	GQ887609
Crp2ARACH	GQ887610
Ctas2CHILO	GQ887611
Din2ARACH	GQ887612
DtyMYSTACO	GQ887613
EafCOPE	GQ887614
EgigARACH	GQ887615
EinEPHEM	GQ887616
ElePYCNO	GQ887617
ErwONYCH	GQ887618
EuryPAURO	GQ887619
Han2SYMPH	GQ887620
HapaOST	GQ887621
HariARACH	GQ887622
HspARACH	GQ887623
IveODONAT	GQ887624
JapDIPLUR	GQ887625
LeanTHECOS	GQ887626
LemMALA	GQ887627
Lle2BRANCH	GQ887628
LnigARACH	GQ887629
LoxTHECOS	GQ887630
MayEPHEM	GQ887631
MbaARCHEO	GQ887632
MtdTARD	GQ887633
NeoMALA	GQ887634
OimCOLL	GQ887635
PamNEOPT	GQ887636
PepONYCH	GQ887637
Pge2DIPLO	GQ887638
Pma2ARACH	GQ887639
Pno2ONYCH	GQ887640
Pol2DIPLO	GQ887641
PsaARCHEO	GQ887642
PwhARACH	GQ887643
ScolCHILO	GQ887644
Scu3SYMPH	GQ887645
SpoCHILO	GQ887646
StpARACH	GQ887647
Tom2COLL	GQ887648
UfsBRANCH	GQ887649

113fin:

A369COPE	GQ887650
AarPENTA	GQ887651
AchARACH	GQ887652
AdoNEOPT	GQ887653
AeliPYCNO	GQ887654
AmaDIPLO	GQ887655
Arg2BIURA	GQ887656
Avu3MALA	GQ887657
BbaTHECOS	GQ887658
CfrTHECOS	GQ887659
ClizYGEN	GQ887660
Col2PYCNO	GQ887661
Cro2XIPHOS	GQ887662
Crp2ARACH	GQ887663
Ctas2CHILO	GQ887664
Din2ARACH	GQ887665
DmaBRANCH	GQ887666
DtyMYSTACO	GQ887667
EafCOPE	GQ887668
EfrDIPLUR	GQ887669
EinEPHEM	GQ887670
ElePYCNO	GQ887671
ErwONYCH	GQ887672
EuryPAURO	GQ887673
Han2SYMPH	GQ887674
HariARACH	GQ887675
HspARACH	GQ887676
IpumARACH	GQ887677
IveODONAT	GQ887678
JapDIPLUR	GQ887679
LeanTHECOS	GQ887680
LemMALA	GQ887681
Lle2BRANCH	GQ887682
LlyODONAT	GQ887683
LnigARACH	GQ887684
LoxTHECOS	GQ887685
LynBRANCH	GQ887686
MbaARCHEO	GQ887687
MtdTARD	GQ887688
NeoMALA	GQ887689
NmeZYGEN	GQ887690
OimCOLL	GQ887691
PamNEOPT	GQ887692
PepONYCH	GQ887693
Pge2DIPLO	GQ887694
Pma2ARACH	GQ887695
PsaARCHEO	GQ887696
PwhARACH	GQ887697
ScolCHILO	GQ887698
Scu3SYMPH	GQ887699
SkleOST	GQ887700
SpoCHILO	GQ887701
StpARACH	GQ887702
UfsBRANCH	GQ887703

127fin:

AchARACH	GQ887704
AdoNEOPT	GQ887705
AeliPYCNO	GQ887706
AhiPYCNO	GQ887707
AmaDIPLO	GQ887708
Amb2ARACH	GQ887709
Arg2BIURA	GQ887710
Asa3BRANCH	GQ887711
Avu3MALA	GQ887712
BbaTHECOS	GQ887713
ClizYGEN	GQ887714
Col2PYCNO	GQ887715
Cro2XIPHOS	GQ887716
Crp2ARACH	GQ887717
DmaBRANCH	GQ887718
EfrDIPLUR	GQ887719
EgigARACH	GQ887720
EinEPHEM	GQ887721
ElePYCNO	GQ887722
ErwONYCH	GQ887723
EuryPAURO	GQ887724
Han2SYMPH	GQ887725
HariARACH	GQ887726
HspARACH	GQ887727
IveODONAT	GQ887728
JapDIPLUR	GQ887729
Lle2BRANCH	GQ887730
LlyODONAT	GQ887731
LnigARACH	GQ887732
LoxTHECOS	GQ887733
LynBRANCH	GQ887734
MayEPHEM	GQ887735
MbaARCHEO	GQ887736
MtdTARD	GQ887737
NeoMALA	GQ887738
NmeZYGEN	GQ887739
OimCOLL	GQ887740
PamNEOPT	GQ887741
PepONYCH	GQ887742
Pge2DIPLO	GQ887743
Pma2ARACH	GQ887744
Pol2DIPLO	GQ887745
PsaARCHEO	GQ887746
ScolCHILO	GQ887747
Scu3SYMPH	GQ887748
Tom2COLL	GQ887749
UfsBRANCH	GQ887750

149fin:

A369COPE	GQ887751
AarPENTA	GQ887752
AchARACH	GQ887753
AdoNEOPT	GQ887754
AeliPYCNO	GQ887755
AhiPYCNO	GQ887756
AmaDIPLO	GQ887757
Amb2ARACH	GQ887758
Arg2BIURA	GQ887759
Asa3BRANCH	GQ887760
Avu3MALA	GQ887761
BbaTHECOS	GQ887762
CfrTHECOS	GQ887763
ClizYGEN	GQ887764
Col2PYCNO	GQ887765
Cro2XIPHOS	GQ887766
Crp2ARACH	GQ887767
Ctas2CHILO	GQ887768
Din2ARACH	GQ887769
DmaBRANCH	GQ887770
DtyMYSTACO	GQ887771
EafCOPE	GQ887772
EfrDIPLUR	GQ887773
EgigARACH	GQ887774
ElePYCNO	GQ887775
EuryPAURO	GQ887776
Han2SYMPH	GQ887777
HariARACH	GQ887778
HspARACH	GQ887779
IpumARACH	GQ887780
IveODONAT	GQ887781
LeanTHECOS	GQ887782
LemMALA	GQ887783
Lle2BRANCH	GQ887784
LlyODONAT	GQ887785
LnigARACH	GQ887786
LoxTHECOS	GQ887787
LynBRANCH	GQ887788
MayEPHEM	GQ887789
MbaARCHEO	GQ887790
NeoMALA	GQ887791
NmeZYGEN	GQ887792
OimCOLL	GQ887793
PamNEOPT	GQ887794
Pma2ARACH	GQ887795
Pol2DIPLO	GQ887796
PsaARCHEO	GQ887797
PwhARACH	GQ887798
Scu3SYMPH	GQ887799
SkleOST	GQ887800
SpoCHILO	GQ887801
StpARACH	GQ887802
Tom2COLL	GQ887803
UfsBRANCH	GQ887804

166fin:

A369COPE	GQ887805
AarPENTA	GQ887806
AchARACH	GQ887807
AdoNEOPT	GQ887808
AeliPYCNO	GQ887809
AhiPYCNO	GQ887810
AmaDIPLO	GQ887811
Amb2ARACH	GQ887812
Arg2BIURA	GQ887813
Asa3BRANCH	GQ887814
Avu3MALA	GQ887815
BbaTHECOS	GQ887816
CfrTHECOS	GQ887817
ClizYGEN	GQ887818
Col2PYCNO	GQ887819
Cro2XIPHOS	GQ887820
Crp2ARACH	GQ887821
Ctas2CHILO	GQ887822
Din2ARACH	GQ887823
DmaBRANCH	GQ887824
DtyMYSTACO	GQ887825
EafCOPE	GQ887826
EfrDIPLUR	GQ887827
EgigARACH	GQ887828
EinEPHEM	GQ887829
ElePYCNO	GQ887830
ErwONYCH	GQ887831
EuryPAURO	GQ887832
Han2SYMPH	GQ887833
HapaOST	GQ887834
HariARACH	GQ887835

HmaCEPHAL	GQ887836
HspARACH	GQ887837
IpumARACH	GQ887838
IveODONAT	GQ887839
JapDIPLUR	GQ887840
LeanTHECOS	GQ887841
LemMALA	GQ887842
Lle2BRANCH	GQ887843
LlyODONAT	GQ887844
LnigARACH	GQ887845
LoxTHECOS	GQ887846
LynBRANCH	GQ887847
MayEPHEM	GQ887848
MbaARCHEO	GQ887849
MtdTARD	GQ887850
NeoMALA	GQ887851
NmeZYGEN	GQ887852
OimCOLL	GQ887853
PamNEOPT	GQ887854
PepONYCH	GQ887855
Pge2DIPLO	GQ887856
Pma2ARACH	GQ887857
Pno2ONYCH	GQ887858
Pol2DIPLO	GQ887859
PwhARACH	GQ887860
ScolCHILO	GQ887861
Scu3SYMPH	GQ887862
SkleOST	GQ887863
SpoCHILO	GQ887864
StpARACH	GQ887865
Tom2COLL	GQ887866
UfsBRANCH	GQ887867

192fin:

AchARACH	GQ887868
AeliPYCNO	GQ887869
AhiPYCNO	GQ887870
Amb2ARACH	GQ887871
Arg2BIURA	GQ887872
Asa3BRANCH	GQ887873
BbaTHECOS	GQ887874
CfrTHECOS	GQ887875
ClizYGEN	GQ887876
Cro2XIPHOS	GQ887877
Crp2ARACH	GQ887878
Ctas2CHILO	GQ887879
Din2ARACH	GQ887880
DmaBRANCH	GQ887881
DtyMYSTACO	GQ887882
EafCOPE	GQ887883
EfrDIPLUR	GQ887884
EgigARACH	GQ887885
EinEPHEM	GQ887886
ElePYCNO	GQ887887
ErwONYCH	GQ887888
EuryPAURO	GQ887889
Han2SYMPH	GQ887890
HapaOST	GQ887891
HariARACH	GQ887892
HspARACH	GQ887893
IpumARACH	GQ887894
JapDIPLUR	GQ887895
LemMALA	GQ887896
Lle2BRANCH	GQ887897
LnigARACH	GQ887898
LoxTHECOS	GQ887899
LynBRANCH	GQ887900
MayEPHEM	GQ887901
MbaARCHEO	GQ887902
NeoMALA	GQ887903
NmeZYGEN	GQ887904
PamNEOPT	GQ887905
PepONYCH	GQ887906
Pge2DIPLO	GQ887907
Pma2ARACH	GQ887908
Pol2DIPLO	GQ887909
PsaARCHEO	GQ887910
PwhARACH	GQ887911
ScolCHILO	GQ887912
Scu3SYMPH	GQ887913
SkleOST	GQ887914
SpoCHILO	GQ887915
StpARACH	GQ887916
Tom2COLL	GQ887917
UfsBRANCH	GQ887918

197fin:

A369COPE	GQ887919
AarPENTA	GQ887920
AchARACH	GQ887921
AdoNEOPT	GQ887922
AeliPYCNO	GQ887923
AhiPYCNO	GQ887924
Amb2ARACH	GQ887925
Arg2BIURA	GQ887926
Avu3MALA	GQ887927
BbaTHECOS	GQ887928
ClizYGEN	GQ887929
Col2PYCNO	GQ887930
Cro2XIPHOS	GQ887931
Crp2ARACH	GQ887932
Ctas2CHILO	GQ887933
Din2ARACH	GQ887934
DmaBRANCH	GQ887935
EafCOPE	GQ887936
EfrDIPLUR	GQ887937
EgigARACH	GQ887938
EinEPHEM	GQ887939
ErwONYCH	GQ887940
EuryPAURO	GQ887941
Han2SYMPH	GQ887942
HariARACH	GQ887943
HmaCEPHAL	GQ887944
HspARACH	GQ887945
IveODONAT	GQ887946
JapDIPLUR	GQ887947
LeanTHECOS	GQ887948
LemMALA	GQ887949
Lle2BRANCH	GQ887950
LlyODONAT	GQ887951
LnigARACH	GQ887952
LynBRANCH	GQ887953
MayEPHEM	GQ887954
MbaARCHEO	GQ887955
NeoMALA	GQ887956
NmeZYGEN	GQ887957
OimCOLL	GQ887958
PepONYCH	GQ887959
Pge2DIPLO	GQ887960
Pma2ARACH	GQ887961
Pol2DIPLO	GQ887962
PsaARCHEO	GQ887963
ScolCHILO	GQ887964
Scu3SYMPH	GQ887965
SpoCHILO	GQ887966
StpARACH	GQ887967

220fin:

AchARACH	GQ887968
AdoNEOPT	GQ887969
AeliPYCNO	GQ887970
AhiPYCNO	GQ887971
AmaDIPLO	GQ887972
Amb2ARACH	GQ887973
Arg2BIURA	GQ887974
Asa3BRANCH	GQ887975
Avu3MALA	GQ887976
BbaTHECOS	GQ887977
CfrTHECOS	GQ887978
Col2PYCNO	GQ887979
Crp2ARACH	GQ887980
Ctas2CHILO	GQ887981
Din2ARACH	GQ887982
DmaBRANCH	GQ887983
DtyMYSTACO	GQ887984
EfrDIPLUR	GQ887985
EgigARACH	GQ887986
EinEPHEM	GQ887987
ElePYCNO	GQ887988
ErwONYCH	GQ887989
EuryPAURO	GQ887990
Han2SYMPH	GQ887991
HariARACH	GQ887992
HspARACH	GQ887993
IveODONAT	GQ887994
LeanTHECOS	GQ887995
LemMALA	GQ887996
Lle2BRANCH	GQ887997
LlyODONAT	GQ887998
LnigARACH	GQ887999
MayEPHEM	GQ888000
MbaARCHEO	GQ888001
NeoMALA	GQ888002
NmeZYGEM	GQ888003
OimCOLL	GQ888004
PamNEOPT	GQ888005
PepONYCH	GQ888006
Pge2DIPLO	GQ888007
Pma2ARACH	GQ888008
Pol2DIPLO	GQ888009
PsaARCHEO	GQ888010
PwhARACH	GQ888011
ScolCHILO	GQ888012
Scu3SYMPH	GQ888013
SpoCHILO	GQ888014
StpARACH	GQ888015
Tom2COLL	GQ888016
UfsBRANCH	GQ888017

226fin:

A369COPE	GQ888018
AarPENTA	GQ888019
AchARACH	GQ888020
AeliPYCNO	GQ888021
AhiPYCNO	GQ888022
AmaDIPLO	GQ888023
Amb2ARACH	GQ888024
Arg2BIURA	GQ888025
Asa3BRANCH	GQ888026
Avu3MALA	GQ888027
BbaTHECOS	GQ888028
ClizYGEN	GQ888029
Col2PYCNO	GQ888030
Cro2XIPHOS	GQ888031
Crp2ARACH	GQ888032
Ctas2CHILO	GQ888033
Din2ARACH	GQ888034
DmaBRANCH	GQ888035
DtyMYSTACO	GQ888036
EafCOPE	GQ888037
EfrDIPLUR	GQ888038
EgigARACH	GQ888039
EinEPHEM	GQ888040
ElePYCNO	GQ888041
ErwONYCH	GQ888042
EuryPAURO	GQ888043
Han2SYMPH	GQ888044
HariARACH	GQ888045
HspARACH	GQ888046
IpumARACH	GQ888047
IveODONAT	GQ888048
JapDIPLUR	GQ888049
LeanTHECOS	GQ888050
LemMALA	GQ888051
Lle2BRANCH	GQ888052
LlyODONAT	GQ888053
LnigARACH	GQ888054
LoxTHECOS	GQ888055
LynBRANCH	GQ888056
MayEPHEM	GQ888057
MbaARCHEO	GQ888058
MtdTARD	GQ888059
NeoMALA	GQ888060
NmeZYGEN	GQ888061
OimCOLL	GQ888062
PamNEOPT	GQ888063
PepONYCH	GQ888064
Pge2DIPLO	GQ888065
Pma2ARACH	GQ888066
Pol2DIPLO	GQ888067
PsaARCHEO	GQ888068
PwhARACH	GQ888069
ScolCHILO	GQ888070
Scu3SYMPH	GQ888071
SkleOST	GQ888072
SpoCHILO	GQ888073
StpARACH	GQ888074
Tom2COLL	GQ888075
UfsBRANCH	GQ888076

247fin:

A369COPE	GQ888077
AchARACH	GQ888078
AdoNEOPT	GQ888079
AeliPYCNO	GQ888080
AhiPYCNO	GQ888081
AmaDIPLO	GQ888082
Asa3BRANCH	GQ888083
Avu3MALA	GQ888084
CfrTHECOS	GQ888085
CliZYGEN	GQ888086
Ctas2CHILO	GQ888087
Din2ARACH	GQ888088
DmaBRANCH	GQ888089
EafCOPE	GQ888090
EfrDIPLUR	GQ888091
EinEPHEM	GQ888092
ElePYCNO	GQ888093
ErwONYCH	GQ888094
EuryPAURO	GQ888095
Han2SYMPH	GQ888096
HariARACH	GQ888097
HmaCEPHAL	GQ888098
HspARACH	GQ888099
IpumARACH	GQ888100
IveODONAT	GQ888101
JapDIPLUR	GQ888102
LeanTHECOS	GQ888103
LlyODONAT	GQ888104
LnigARACH	GQ888105
LoxTHECOS	GQ888106
MayEPHEM	GQ888107
NeoMALA	GQ888108
NmeZYGEN	GQ888109
OimCOLL	GQ888110
PamNEOPT	GQ888111
PepONYCH	GQ888112
Pma2ARACH	GQ888113
Pol2DIPLO	GQ888114
PsaARCHEO	GQ888115
PwhARACH	GQ888116
ScolCHILO	GQ888117
Scu3SYMPH	GQ888118
SpoCHILO	GQ888119
Tom2COLL	GQ888120
UfsBRANCH	GQ888121

262fin:

A369COPE	GQ888122
AarPENTA	GQ888123
AchARACH	GQ888124
AdoNEOPT	GQ888125
AeliPYCNO	GQ888126
AhiPYCNO	GQ888127
AmaDIPLO	GQ888128
Arg2BIURA	GQ888129
Asa3BRANCH	GQ888130
Avu3MALA	GQ888131
CfrTHECOS	GQ888132
ClizYGEN	GQ888133
Col2PYCNO	GQ888134
Cro2XIPHOS	GQ888135
Crp2ARACH	GQ888136
Din2ARACH	GQ888137
DmaBRANCH	GQ888138
DtyMYSTACO	GQ888139
EafCOPE	GQ888140
EgigARACH	GQ888141
EinEPHEM	GQ888142
ElePYCNO	GQ888143
ErwONYCH	GQ888144
EuryPAURO	GQ888145
Han2SYMPH	GQ888146
HariARACH	GQ888147
HmaCEPHAL	GQ888148
HspARACH	GQ888149
IpumARACH	GQ888150
IveODONAT	GQ888151
JapDIPLUR	GQ888152
LeanTHECOS	GQ888153
LemMALA	GQ888154
Lle2BRANCH	GQ888155
LlyODONAT	GQ888156
LnigARACH	GQ888157
LoxTHECOS	GQ888158
LynBRANCH	GQ888159
MbaARCHEO	GQ888160
NeoMALA	GQ888161
NmeZYGEM	GQ888162
OimCOLL	GQ888163
PamNEOPT	GQ888164
PepONYCH	GQ888165
Pge2DIPLO	GQ888166
Pma2ARACH	GQ888167
Pno2ONYCH	GQ888168
Pol2DIPLO	GQ888169
PsaARCHEO	GQ888170
PwhARACH	GQ888171
ScolCHILO	GQ888172
Scu3SYMPH	GQ888173
SkleOST	GQ888174
SpoCHILO	GQ888175
StpARACH	GQ888176
Tom2COLL	GQ888177
UfsBRANCH	GQ888178

265fin:

A369COPE	GQ888179
AeliPYCNO	GQ888180
AhiPYCNO	GQ888181
AmaDIPLO	GQ888182
Arg2BIURA	GQ888183
Asa3BRANCH	GQ888184
Avu3MALA	GQ888185
BbaTHECOS	GQ888186
ClizYGEN	GQ888187
Crp2ARACH	GQ888188
Ctas2CHILO	GQ888189
Din2ARACH	GQ888190
DmaBRANCH	GQ888191
EafCOPE	GQ888192
EfrDIPLUR	GQ888193
EgigARACH	GQ888194
EinEPHEM	GQ888195
ErwONYCH	GQ888196
EuryPAURO	GQ888197
Han2SYMPH	GQ888198
HariARACH	GQ888199
HmaCEPHAL	GQ888200
HspARACH	GQ888201
IveODONAT	GQ888202
JapDIPLUR	GQ888203
LeanTHECOS	GQ888204
LemMALA	GQ888205
LlyODONAT	GQ888206
LnigARACH	GQ888207
LoxTHECOS	GQ888208
LynBRANCH	GQ888209
MayEPHEM	GQ888210
MbaARCHEO	GQ888211
MtdTARD	GQ888212
NeoMALA	GQ888213
NmeZYGEN	GQ888214
OimCOLL	GQ888215
PamNEOPT	GQ888216
PepONYCH	GQ888217
Pge2DIPLO	GQ888218
Pma2ARACH	GQ888219
Pno2ONYCH	GQ888220
Pol2DIPLO	GQ888221
PsaARCHEO	GQ888222
PwhARACH	GQ888223
Scu3SYMPH	GQ888224
SkleOST	GQ888225
StpARACH	GQ888226
Tom2COLL	GQ888227

267fin:

A369COPE	GQ888228
AchARACH	GQ888229
AdoNEOPT	GQ888230
AeliPYCNO	GQ888231
AhiPYCNO	GQ888232
AmaDIPLO	GQ888233
Amb2ARACH	GQ888234
Arg2BIURA	GQ888235
Asa3BRANCH	GQ888236
Avu3MALA	GQ888237
BbaTHECOS	GQ888238
CfrTHECOS	GQ888239
ClizYGEN	GQ888240
Col2PYCNO	GQ888241
Cro2XIPHOS	GQ888242
Crp2ARACH	GQ888243
Ctas2CHILO	GQ888244
Din2ARACH	GQ888245
DmaBRANCH	GQ888246
EafCOPE	GQ888247
EfrDIPLUR	GQ888248
EgigARACH	GQ888249
EinEPHEM	GQ888250
ElePYCNO	GQ888251
ErwONYCH	GQ888252
EuryPAURO	GQ888253
Han2SYMPH	GQ888254
HmaCEPHAL	GQ888255
HspARACH	GQ888256
IpumARACH	GQ888257
IveODONAT	GQ888258
JapDIPLUR	GQ888259
LeanTHECOS	GQ888260
LemMALA	GQ888261
Lle2BRANCH	GQ888262
LnigARACH	GQ888263
LoxTHECOS	GQ888264
LynBRANCH	GQ888265
MayEPHEM	GQ888266
MbaARCHEO	GQ888267
MtdTARD	GQ888268
NeoMALA	GQ888269
NmeZYGEN	GQ888270
OimCOLL	GQ888271
PamNEOPT	GQ888272
PepONYCH	GQ888273
Pge2DIPLO	GQ888274
Pma2ARACH	GQ888275
Pno2ONYCH	GQ888276
Pol2DIPLO	GQ888277
PsaARCHEO	GQ888278
PwhARACH	GQ888279
ScolCHILO	GQ888280
Scu3SYMPH	GQ888281
SkleOST	GQ888282
SpoCHILO	GQ888283
StpARACH	GQ888284
Tom2COLL	GQ888285
UfsBRANCH	GQ888286

268fin:

A369COPE	GQ888287
AdoNEOPT	GQ888288
AeliPYCNO	GQ888289
AhiPYCNO	GQ888290
AmaDIPLO	GQ888291
Amb2ARACH	GQ888292
Arg2BIURA	GQ888293
Col2PYCNO	GQ888294
Cro2XIPHOS	GQ888295
Crp2ARACH	GQ888296
Ctas2CHILO	GQ888297
Din2ARACH	GQ888298
DmaBRANCH	GQ888299
EafCOPE	GQ888300
EgigARACH	GQ888301
EinEPHEM	GQ888302
ErwONYCH	GQ888303
Han2SYMPH	GQ888304
IpumARACH	GQ888305
IveODONAT	GQ888306
Lle2BRANCH	GQ888307
LlyODONAT	GQ888308
LnigARACH	GQ888309
LoxTHECOS	GQ888310
LynBRANCH	GQ888311
MayEPHEM	GQ888312
MbaARCHEO	GQ888313
NmeZYGEN	GQ888314
OimCOLL	GQ888315
PamNEOPT	GQ888316
PepONYCH	GQ888317
Pge2DIPLO	GQ888318
Pol2DIPLO	GQ888319
PsaARCHEO	GQ888320
PwhARACH	GQ888321
ScolCHILO	GQ888322
Scu3SYMPH	GQ888323
SkleOST	GQ888324
StpARACH	GQ888325
Tom2COLL	GQ888326
UfsBRANCH	GQ888327

270fin:

AchARACH	GQ888328
AdoNEOPT	GQ888329
Amb2ARACH	GQ888330
Avu3MALA	GQ888331
BbaTHECOS	GQ888332
CfrTHECOS	GQ888333
ClizYGEN	GQ888334
Col2PYCNO	GQ888335
Cro2XIPHOS	GQ888336
Crp2ARACH	GQ888337
Ctas2CHILO	GQ888338
Din2ARACH	GQ888339
DmaBRANCH	GQ888340
DtyMYSTACO	GQ888341
EafCOPE	GQ888342
EgigARACH	GQ888343
ElePYCNO	GQ888344
ErwONYCH	GQ888345
Han2SYMPH	GQ888346
HariARACH	GQ888347
HspARACH	GQ888348
IveODONAT	GQ888349
JapDIPLUR	GQ888350
LeanTHECOS	GQ888351
LemMALA	GQ888352
LlyODONAT	GQ888353
LnigARACH	GQ888354
LoxTHECOS	GQ888355
LynBRANCH	GQ888356
MayEPHEM	GQ888357
MbaARCHEO	GQ888358
NeoMALA	GQ888359
NmeZYGEN	GQ888360
OimCOLL	GQ888361
PamNEOPT	GQ888362
Pma2ARACH	GQ888363
PsaARCHEO	GQ888364
ScolCHILO	GQ888365
SkleOST	GQ888366
SpoCHILO	GQ888367
StpARACH	GQ888368
Tom2COLL	GQ888369

274fin:

A369COPE	GQ888370
AarPENTA	GQ888371
AchARACH	GQ888372
AdoNEOPT	GQ888373
AmaDIPLO	GQ888374
Amb2ARACH	GQ888375
Arg2BIURA	GQ888376
Asa3BRANCH	GQ888377
BbaTHECOS	GQ888378
CfrTHECOS	GQ888379
Crp2ARACH	GQ888380
Ctas2CHILO	GQ888381
Din2ARACH	GQ888382
DmaBRANCH	GQ888383
DtyMYSTACO	GQ888384
EinEPHEM	GQ888385
EuryPAURO	GQ888386
Han2SYMPH	GQ888387
HmaCEPHAL	GQ888388
HspARACH	GQ888389
IveODONAT	GQ888390
LeanTHECOS	GQ888391
LemMALA	GQ888392
Lle2BRANCH	GQ888393
LlyODONAT	GQ888394
LoxTHECOS	GQ888395
LynBRANCH	GQ888396
MayEPHEM	GQ888397
PamNEOPT	GQ888398
PepONYCH	GQ888399
Pge2DIPLO	GQ888400
Pol2DIPLO	GQ888401
PwhARACH	GQ888402
ScolCHILO	GQ888403
Scu3SYMPH	GQ888404
SkleOST	GQ888405
SpoCHILO	GQ888406
UfsBRANCH	GQ888407

3006fin:

A369COPE	GQ888408
AarPENTA	GQ888409
AchARACH	GQ888410
AdoNEOPT	GQ888411
AeliPYCNO	GQ888412
AhiPYCNO	GQ888413
AmaDIPLO	GQ888414
Amb2ARACH	GQ888415
Arg2BIURA	GQ888416
Avu3MALA	GQ888417
BbaTHECOS	GQ888418
CfrTHECOS	GQ888419
ClizYGEN	GQ888420
Col2PYCNO	GQ888421
Crp2ARACH	GQ888422
Ctas2CHILO	GQ888423
EafCOPE	GQ888424
EfrDIPLUR	GQ888425
EinEPHEM	GQ888426
ElePYCNO	GQ888427
ErwONYCH	GQ888428
EuryPAURO	GQ888429
Han2SYMPH	GQ888430
HapaOST	GQ888431
HariARACH	GQ888432
HmaCEPHAL	GQ888433
HspARACH	GQ888434
IveODONAT	GQ888435
JapDIPLUR	GQ888436
LeanTHECOS	GQ888437
LemMALA	GQ888438
LlyODONAT	GQ888439
LnigARACH	GQ888440
LoxTHECOS	GQ888441
MayEPHEM	GQ888442
MbaARCHEO	GQ888443
NeoMALA	GQ888444
NmeZYGEN	GQ888445
OimCOLL	GQ888446
PamNEOPT	GQ888447
PepONYCH	GQ888448
Pge2DIPLO	GQ888449
Pno2ONYCH	GQ888450
Pol2DIPLO	GQ888451
PsaARCHEO	GQ888452
ScolCHILO	GQ888453
Scu3SYMPH	GQ888454
SkleOST	GQ888455
SpoCHILO	GQ888456
Tom2COLL	GQ888457
UfsBRANCH	GQ888458

3007fin:

A369COPE	GQ888459
AchARACH	GQ888460
AdoNEOPT	GQ888461
AhiPYCNO	GQ888462
AmaDIPLO	GQ888463
Amb2ARACH	GQ888464
Arg2BIURA	GQ888465
Avu3MALA	GQ888466
BbaTHECOS	GQ888467
CfrTHECOS	GQ888468
Crp2ARACH	GQ888469
Ctas2CHILO	GQ888470
Din2ARACH	GQ888471
DmaBRANCH	GQ888472
DtyMYSTACO	GQ888473
EafCOPE	GQ888474
EfrDIPLUR	GQ888475
EgigARACH	GQ888476
ErwONYCH	GQ888477
EuryPAURO	GQ888478
Han2SYMPH	GQ888479
HapaOST	GQ888480
HspARACH	GQ888481
IpumARACH	GQ888482
IveODONAT	GQ888483
JapDIPLUR	GQ888484
LemMALA	GQ888485
Lle2BRANCH	GQ888486
LlyODONAT	GQ888487
LnigARACH	GQ888488
LoxTHECOS	GQ888489
LynBRANCH	GQ888490
MayEPHEM	GQ888491
MbaARCHEO	GQ888492
NeoMALA	GQ888493
NmeZYGEM	GQ888494
OimCOLL	GQ888495
PamNEOPT	GQ888496
PepONYCH	GQ888497
Pge2DIPLO	GQ888498
Pma2ARACH	GQ888499
PsaARCHEO	GQ888500
PwhARACH	GQ888501
ScolCHILO	GQ888502
Scu3SYMPH	GQ888503
SpoCHILO	GQ888504
Tom2COLL	GQ888505
UfsBRANCH	GQ888506

3009fin:

A369COPE	GQ885174
AarPENTA	GQ885175
AchARACH	GQ885176
AdoNEOPT	GQ885177
AeliPYCNO	GQ885178
AhiPYCNO	GQ885179
Arg2BIURA	GQ885180
Asa3BRANCH	GQ885181
Avu3MALA	GQ885182
CliZYGEN	GQ885183
Col2PYCNO	GQ885184
Crp2ARACH	GQ885185
Ctas2CHILO	GQ885186
Din2ARACH	GQ885187
DmaBRANCH	GQ885188
DtyMYSTACO	GQ885189
EafCOPE	GQ885190
EfrDIPLUR	GQ885191
EgigARACH	GQ885192
EinEPHEM	GQ885193
ElePYCNO	GQ885194
ErwONYCH	GQ885195
Han2SYMPH	GQ885196
HariARACH	GQ885197
HmaCEPHAL	GQ885198
HspARACH	GQ885199
IpumARACH	GQ885200
IveODONAT	GQ885201
JapDIPLUR	GQ885202
LemMALA	GQ885203
LnigARACH	GQ885204
MayEPHEM	GQ885205
MbaARCHEO	GQ885206
MtdTARD	GQ885207
NeoMALA	GQ885208
NmeZYGEN	GQ885209
OimCOLL	GQ885210
PepONYCH	GQ885211
Pge2DIPLO	GQ885212
Pma2ARACH	GQ885213
PsaARCHEO	GQ885214
PwhARACH	GQ885215
ScolCHILO	GQ885216
Scu3SYMPH	GQ885217
SkleOST	GQ885218
SpoCHILO	GQ885219
StpARACH	GQ885220
Tom2COLL	GQ885221
UfsBRANCH	GQ885222

3012fin:

A369COPE	GQ885223
AdoNEOPT	GQ885224
AeliPYCNO	GQ885225
AhiPYCNO	GQ885226
AmaDIPLO	GQ885227
Amb2ARACH	GQ885228
Arg2BIURA	GQ885229
Asa3BRANCH	GQ885230
Avu3MALA	GQ885231
BbaTHECOS	GQ885232
CfrTHECOS	GQ885233
ClizYGEN	GQ885234
Col2PYCNO	GQ885235
Cro2XIPHOS	GQ885236
Ctas2CHILO	GQ885237
Din2ARACH	GQ885238
DmaBRANCH	GQ885239
EafCOPE	GQ885240
EfrDIPLUR	GQ885241
EinEPHEM	GQ885242
ElePYCNO	GQ885243
ErwONYCH	GQ885244
EuryPAURO	GQ885245
Han2SYMPH	GQ885246
HapaOST	GQ885247
HariARACH	GQ885248
HmaCEPHAL	GQ885249
HspARACH	GQ885250
IpumARACH	GQ885251
JapDIPLUR	GQ885252
LemMALA	GQ885253
Lle2BRANCH	GQ885254
LoxTHECOS	GQ885255
LynBRANCH	GQ885256
MbaARCHEO	GQ885257
MtdTARD	GQ885258
NeoMALA	GQ885259
NmeZYGEN	GQ885260
OimCOLL	GQ885261
PepONYCH	GQ885262
Pma2ARACH	GQ885263
Pol2DIPLO	GQ885264
PsaARCHEO	GQ885265
PwhARACH	GQ885266
ScolCHILO	GQ885267
Scu3SYMPH	GQ885268
SkleOST	GQ885269
SpoCHILO	GQ885270
StpARACH	GQ885271
Tom2COLL	GQ885272
UfsBRANCH	GQ885273

3017fin:

A369COPE	GQ885274
AchARACH	GQ885275
AdoNEOPT	GQ885276
AeliPYCNO	GQ885277
AmaDIPLO	GQ885278
Arg2BIURA	GQ885279
Asa3BRANCH	GQ885280
Avu3MALA	GQ885281
Cro2XIPHOS	GQ885282
Crp2ARACH	GQ885283
Ctas2CHILO	GQ885284
DmaBRANCH	GQ885285
DtyMYSTACO	GQ885286
EafCOPE	GQ885287
EfrDIPLUR	GQ885288
EgigARACH	GQ885289
EinEPHEM	GQ885290
ElePYCNO	GQ885291
ErwONYCH	GQ885292
EuryPAURO	GQ885293
HariARACH	GQ885294
HspARACH	GQ885295
IpumARACH	GQ885296
IveODONAT	GQ885297
JapDIPLUR	GQ885298
LemMALA	GQ885299
LlyODONAT	GQ885300
LnigARACH	GQ885301
LoxTHECOS	GQ885302
MayEPHEM	GQ885303
MbaARCHEO	GQ885304
NeoMALA	GQ885305
NmeZYGEM	GQ885306
PamNEOPT	GQ885307
PepONYCH	GQ885308
Pge2DIPLO	GQ885309
Pma2ARACH	GQ885310
Pol2DIPLO	GQ885311
PsaARCHEO	GQ885312
PwhARACH	GQ885313
ScolCHILO	GQ885314
Scu3SYMPH	GQ885315
SkleOST	GQ885316
SpoCHILO	GQ885317
StpARACH	GQ885318
Tom2COLL	GQ885319
UfsBRANCH	GQ885320

3031fin2_3:

AarPENTA	GQ885321
AhiPYCNO	GQ885322
AmaDIPLO	GQ885323
Amb2ARACH	GQ885324
Arg2BIURA	GQ885325
Asa3BRANCH	GQ885326
Avu3MALA	GQ885327
BbaTHECOS	GQ885328
CfrTHECOS	GQ885329
CliZYGEN	GQ885330
Col2PYCNO	GQ885331
Crp2ARACH	GQ885332
Ctas2CHILO	GQ885333
Din2ARACH	GQ885334
DmaBRANCH	GQ885335
DtyMYSTACO	GQ885336
EfrDIPLUR	GQ885337
EgigARACH	GQ885338
ElePYCNO	GQ885339
EuryPAURO	GQ885340
Han2SYMPH	GQ885341
HariARACH	GQ885342
HspARACH	GQ885343
IpumARACH	GQ885344
IveODONAT	GQ885345
JapDIPLUR	GQ885346
LeanTHECOS	GQ885347
LemMALA	GQ885348
Lle2BRANCH	GQ885349
LlyODONAT	GQ885350
LnigARACH	GQ885351
LoxTHECOS	GQ885352
LynBRANCH	GQ885353
MbaARCHEO	GQ885354
NeoMALA	GQ885355
NmeZYGEN	GQ885356
OimCOLL	GQ885357
PamNEOPT	GQ885358
Pge2DIPLO	GQ885359
Pma2ARACH	GQ885360
PsaARCHEO	GQ885361
ScolCHILO	GQ885362
Scu3SYMPH	GQ885363
SpoCHILO	GQ885364
StpARACH	GQ885365
Tom2COLL	GQ885366
UfsBRANCH	GQ885367

3031fin4_5:
AarPENTA GQ885368
AchARACH GQ885369
AdoNEOPT GQ885370
AeliPYCNO GQ885371
AhiPYCNO GQ885372
AmaDIPLO GQ885373
Amb2ARACH GQ885374
Asa3BRANCH GQ885375
Avu3MALA GQ885376
BbaTHECOS GQ885377
CfrTHECOS GQ885378
ClizYGEN GQ885379
Col2PYCNO GQ885380
Crp2ARACH GQ885381
Ctas2CHILO GQ885382
Din2ARACH GQ885383
DmaBRANCH GQ885384
DtyMYSTACO GQ885385
EafCOPE GQ885386
EfrDIPLUR GQ885387
EgigARACH GQ885388
ElePYCNO GQ885389
ErwONYCH GQ885390
EuryPAURO GQ885391
Han2SYMPH GQ885392
HapaOST GQ885393
HariARACH GQ885394
HspARACH GQ885395
IpumARACH GQ885396
IveODONAT GQ885397
JapDIPLUR GQ885398
LeanTHECOS GQ885399
Lle2BRANCH GQ885400
LlyODONAT GQ885401
LnigARACH GQ885402
LoxTHECOS GQ885403
LynBRANCH GQ885404
MbaARCHEO GQ885405
NeoMALA GQ885406
OimCOLL GQ885407
PamNEOPT GQ885408
PepONYCH GQ885409
Pma2ARACH GQ885410
Pno2ONYCH GQ885411
Pol2DIPLO GQ885412
PsaARCHEO GQ885413
ScolCHILO GQ885414
Scu3SYMPH GQ885415
SpoCHILO GQ885416
StpARACH GQ885417
Tom2COLL GQ885418

3044fin:

AarPENTA	GQ885419
AchARACH	GQ885420
AdoNEOPT	GQ885421
AhiPYCNO	GQ885422
AmaDIPLO	GQ885423
Amb2ARACH	GQ885424
Arg2BIURA	GQ885425
Asa3BRANCH	GQ885426
Avu3MALA	GQ885427
CfrTHECOS	GQ885428
ClizYGEN	GQ885429
Col2PYCNO	GQ885430
Cro2XIPHOS	GQ885431
Crp2ARACH	GQ885432
Ctas2CHILO	GQ885433
Din2ARACH	GQ885434
DmaBRANCH	GQ885435
EafCOPE	GQ885436
EfrDIPLUR	GQ885437
EinEPHEM	GQ885438
ElePYCNO	GQ885439
ErwONYCH	GQ885440
Han2SYMPH	GQ885441
HmaCEPHAL	GQ885442
IpumARACH	GQ885443
IveODONAT	GQ885444
JapDIPLUR	GQ885445
LemMALA	GQ885446
Lle2BRANCH	GQ885447
LlyODONAT	GQ885448
LnigARACH	GQ885449
LoxTHECOS	GQ885450
LynBRANCH	GQ885451
MayEPHEM	GQ885452
MbaARCHEO	GQ885453
MtdTARD	GQ885454
NeoMALA	GQ885455
NmeZYGEN	GQ885456
OimCOLL	GQ885457
PepONYCH	GQ885458
Pge2DIPLO	GQ885459
Pno2ONYCH	GQ885460
Pol2DIPLO	GQ885461
PsaARCHEO	GQ885462
PwhARACH	GQ885463
ScolCHILO	GQ885464
Scu3SYMPH	GQ885465
SkleOST	GQ885466
SpoCHILO	GQ885467
StpARACH	GQ885468
Tom2COLL	GQ885469
UfsBRANCH	GQ885470

3055fin:

A369COPE	GQ885471
AchARACH	GQ885472
AdoNEOPT	GQ885473
AeliPYCNO	GQ885474
AhiPYCNO	GQ885475
AmaDIPLO	GQ885476
Amb2ARACH	GQ885477
Arg2BIURA	GQ885478
Avu3MALA	GQ885479
BbaTHECOS	GQ885480
CfrTHECOS	GQ885481
ClizYGEN	GQ885482
Col2PYCNO	GQ885483
Cro2XIPHOS	GQ885484
Crp2ARACH	GQ885485
Ctas2CHILO	GQ885486
Din2ARACH	GQ885487
DmaBRANCH	GQ885488
EafCOPE	GQ885489
EfrDIPLUR	GQ885490
EinEPHEM	GQ885491
ElePYCNO	GQ885492
ErwONYCH	GQ885493
EuryPAURO	GQ885494
Han2SYMPH	GQ885495
HariARACH	GQ885496
HmaCEPHAL	GQ885497
HspARACH	GQ885498
IveODONAT	GQ885499
JapDIPLUR	GQ885500
LeanTHECOS	GQ885501
LemMALA	GQ885502
LnigARACH	GQ885503
LynBRANCH	GQ885504
MayEPHEM	GQ885505
MtdTARD	GQ885506
NeoMALA	GQ885507
NmeZYGEN	GQ885508
OimCOLL	GQ885509
PamNEOPT	GQ885510
PepONYCH	GQ885511
Pma2ARACH	GQ885512
Pno2ONYCH	GQ885513
PsaARCHEO	GQ885514
PwhARACH	GQ885515
ScolCHILO	GQ885516
Scu3SYMPH	GQ885517
SkleOST	GQ885518
StpARACH	GQ885519
Tom2COLL	GQ885520

3059fin:

A369COPE	GQ885521
AarPENTA	GQ885522
AchARACH	GQ885523
AdoNEOPT	GQ885524
AeliPYCNO	GQ885525
AhiPYCNO	GQ885526
AmaDIPLO	GQ885527
Amb2ARACH	GQ885528
Arg2BIURA	GQ885529
Asa3BRANCH	GQ885530
Avu3MALA	GQ885531
BbaTHECOS	GQ885532
CfrTHECOS	GQ885533
ClizYGEN	GQ885534
Col2PYCNO	GQ885535
Crp2ARACH	GQ885536
Ctas2CHILO	GQ885537
Din2ARACH	GQ885538
DmaBRANCH	GQ885539
DtyMYSTACO	GQ885540
EafCOPE	GQ885541
EfrDIPLUR	GQ885542
EgigARACH	GQ885543
EinEPHEM	GQ885544
ErwONYCH	GQ885545
EuryPAURO	GQ885546
HariARACH	GQ885547
HmaCEPHAL	GQ885548
HspARACH	GQ885549
IpumARACH	GQ885550
IveODONAT	GQ885551
JapDIPLUR	GQ885552
LeanTHECOS	GQ885553
LemMALA	GQ885554
Lle2BRANCH	GQ885555
LlyODONAT	GQ885556
LnigARACH	GQ885557
MtdTARD	GQ885558
NeoMALA	GQ885559
NmeZYGEN	GQ885560
OimCOLL	GQ885561
PamNEOPT	GQ885562
PepONYCH	GQ885563
Pma2ARACH	GQ885564
PsaARCHEO	GQ885565
PwhARACH	GQ885566
ScolCHILO	GQ885567
SkleOST	GQ885568
SpoCHILO	GQ885569
StpARACH	GQ885570
Tom2COLL	GQ885571
UfsBRANCH	GQ885572

3064fin:

A369COPE	GQ885573
AarPENTA	GQ885574
AchARACH	GQ885575
AdoNEOPT	GQ885576
AeliPYCNO	GQ885577
AhiPYCNO	GQ885578
AmaDIPLO	GQ885579
Amb2ARACH	GQ885580
Arg2BIURA	GQ885581
Asa3BRANCH	GQ885582
Avu3MALA	GQ885583
BbaTHECOS	GQ885584
CfrTHECOS	GQ885585
ClizYGEN	GQ885586
Col2PYCNO	GQ885587
Crp2ARACH	GQ885588
Ctas2CHILO	GQ885589
Din2ARACH	GQ885590
DmaBRANCH	GQ885591
EafCOPE	GQ885592
EfrDIPLUR	GQ885593
EgigARACH	GQ885594
EinEPHEM	GQ885595
ElePYCNO	GQ885596
ErwONYCH	GQ885597
EuryPAURO	GQ885598
Han2SYMPH	GQ885599
HapaOST	GQ885600
HariARACH	GQ885601
HmaCEPHAL	GQ885602
HspARACH	GQ885603
IpumARACH	GQ885604
IveODONAT	GQ885605
JapDIPLUR	GQ885606
LeanTHECOS	GQ885607
Lle2BRANCH	GQ885608
LlyODONAT	GQ885609
LnigARACH	GQ885610
LoxTHECOS	GQ885611
LynBRANCH	GQ885612
MayEPHEM	GQ885613
MtdTARD	GQ885614
NeoMALA	GQ885615
NmeZYGEN	GQ885616
OimCOLL	GQ885617
PamNEOPT	GQ885618
PepONYCH	GQ885619
Pge2DIPLO	GQ885620
Pma2ARACH	GQ885621
Pno2ONYCH	GQ885622
Pol2DIPLO	GQ885623
PsaARCHEO	GQ885624
PwhARACH	GQ885625
ScolCHILO	GQ885626
Scu3SYMPH	GQ885627
SkleOST	GQ885628
SpoCHILO	GQ885629
StpARACH	GQ885630
Tom2COLL	GQ885631
UfsBRANCH	GQ885632

3066fin:

A369COPE	GQ885633
AarPENTA	GQ885634
AchARACH	GQ885635
AdoNEOPT	GQ885636
AmaDIPLO	GQ885637
Amb2ARACH	GQ885638
Arg2BIURA	GQ885639
Avu3MALA	GQ885640
CliZYGEN	GQ885641
Col2PYCNO	GQ885642
Cro2XIPHOS	GQ885643
Crp2ARACH	GQ885644
Ctas2CHILO	GQ885645
EafCOPE	GQ885646
EfrDIPLUR	GQ885647
EgigARACH	GQ885648
EinEPHEM	GQ885649
ErwONYCH	GQ885650
HariARACH	GQ885651
HspARACH	GQ885652
IpumARACH	GQ885653
IveODONAT	GQ885654
LemMALA	GQ885655
Lle2BRANCH	GQ885656
LlyODONAT	GQ885657
LnigARACH	GQ885658
LynBRANCH	GQ885659
MayEPHEM	GQ885660
MtdTARD	GQ885661
NeoMALA	GQ885662
NmeZYGEN	GQ885663
OimCOLL	GQ885664
PamNEOPT	GQ885665
PepONYCH	GQ885666
Pge2DIPLO	GQ885667
Pma2ARACH	GQ885668
Pol2DIPLO	GQ885669
PsaARCHEO	GQ885670
PwhARACH	GQ885671
ScolCHILO	GQ885672
SkleOST	GQ885673
SpoCHILO	GQ885674
StpARACH	GQ885675
Tom2COLL	GQ885676

3070fin:

A369COPE	GQ885677
AarPENTA	GQ885678
AchARACH	GQ885679
AdoNEOPT	GQ885680
AmaDIPLO	GQ885681
Arg2BIURA	GQ885682
Asa3BRANCH	GQ885683
Avu3MALA	GQ885684
CfrTHECOS	GQ885685
ClizYGEN	GQ885686
Cro2XIPHOS	GQ885687
Crp2ARACH	GQ885688
Din2ARACH	GQ885689
DmaBRANCH	GQ885690
EafCOPE	GQ885691
EgigARACH	GQ885692
ErwONYCH	GQ885693
EuryPAURO	GQ885694
Han2SYMPH	GQ885695
HariARACH	GQ885696
HspARACH	GQ885697
IpumARACH	GQ885698
IveODONAT	GQ885699
LemMALA	GQ885700
Lle2BRANCH	GQ885701
LlyODONAT	GQ885702
LnigARACH	GQ885703
LoxTHECOS	GQ885704
LynBRANCH	GQ885705
MayEPHEM	GQ885706
MtdTARD	GQ885707
NeoMALA	GQ885708
OimCOLL	GQ885709
PamNEOPT	GQ885710
PepONYCH	GQ885711
Pge2DIPLO	GQ885712
Pma2ARACH	GQ885713
PsaARCHEO	GQ885714
PwhARACH	GQ885715
ScolCHILO	GQ885716
Scu3SYMPH	GQ885717
SkleOST	GQ885718
SpoCHILO	GQ885719
StpARACH	GQ885720
Tom2COLL	GQ885721
UfsBRANCH	GQ885722

3089fin:

A369COPE	GQ885723
AarPENTA	GQ885724
AchARACH	GQ885725
AdoNEOPT	GQ885726
AeliPYCNO	GQ885727
AhiPYCNO	GQ885728
AmaDIPLO	GQ885729
Amb2ARACH	GQ885730
Arg2BIURA	GQ885731
Asa3BRANCH	GQ885732
Avu3MALA	GQ885733
BbaTHECOS	GQ885734
CfrTHECOS	GQ885735
ClizYGEN	GQ885736
Col2PYCNO	GQ885737
Cro2XIPHOS	GQ885738
Crp2ARACH	GQ885739
Ctas2CHILO	GQ885740
Din2ARACH	GQ885741
DtyMYSTACO	GQ885742
EafCOPE	GQ885743
EfrDIPLUR	GQ885744
EgigARACH	GQ885745
EinEPHEM	GQ885746
ElePYCNO	GQ885747
ErwONYCH	GQ885748
EuryPAURO	GQ885749
Han2SYMPH	GQ885750
HapaOST	GQ885751
HariARACH	GQ885752
HmaCEPHAL	GQ885753
HspARACH	GQ885754
IpumARACH	GQ885755
IveODONAT	GQ885756
JapDIPLUR	GQ885757
LeanTHECOS	GQ885758
LemMALA	GQ885759
Lle2BRANCH	GQ885760
LlyODONAT	GQ885761
LnigARACH	GQ885762
LynBRANCH	GQ885763
MayEPHEM	GQ885764
MtdTARD	GQ885765
NeoMALA	GQ885766
NmeZYGEN	GQ885767
OimCOLL	GQ885768
PepONYCH	GQ885769
Pge2DIPLO	GQ885770
Pma2ARACH	GQ885771
Pno2ONYCH	GQ885772
PsaARCHEO	GQ885773
PwhARACH	GQ885774
ScolCHILO	GQ885775
Scu3SYMPH	GQ885776
SkleOST	GQ885777
SpoCHILO	GQ885778
StpARACH	GQ885779
Tom2COLL	GQ885780
UfsBRANCH	GQ885781

3094fin:

AchARACH	GQ885782
AdoNEOPT	GQ885783
AeliPYCNO	GQ885784
AhiPYCNO	GQ885785
AmaDIPLO	GQ885786
Amb2ARACH	GQ885787
Arg2BIURA	GQ885788
Asa3BRANCH	GQ885789
BbaTHECOS	GQ885790
CfrTHECOS	GQ885791
ClizYGEN	GQ885792
Col2PYCNO	GQ885793
Cro2XIPHOS	GQ885794
Crp2ARACH	GQ885795
Ctas2CHILO	GQ885796
Din2ARACH	GQ885797
DmaBRANCH	GQ885798
DtyMYSTACO	GQ885799
EafCOPE	GQ885800
EfrDIPLUR	GQ885801
EgigARACH	GQ885802
ElePYCNO	GQ885803
ErwONYCH	GQ885804
EuryPAURO	GQ885805
Han2SYMPH	GQ885806
HapaOST	GQ885807
HariARACH	GQ885808
HmaCEPHAL	GQ885809
HspARACH	GQ885810
IpumARACH	GQ885811
IveODONAT	GQ885812
JapDIPLUR	GQ885813
LeanTHECOS	GQ885814
LemMALA	GQ885815
Lle2BRANCH	GQ885816
LlyODONAT	GQ885817
LnigARACH	GQ885818
LoxTHECOS	GQ885819
LynBRANCH	GQ885820
MtdTARD	GQ885821
NeoMALA	GQ885822
NmeZYGEN	GQ885823
OimCOLL	GQ885824
PamNEOPT	GQ885825
PepONYCH	GQ885826
Pge2DIPLO	GQ885827
Pma2ARACH	GQ885828
Pol2DIPLO	GQ885829
PsaARCHEO	GQ885830
PwhARACH	GQ885831
ScolCHILO	GQ885832
Scu3SYMPH	GQ885833
SkleOST	GQ885834
SpoCHILO	GQ885835
StpARACH	GQ885836
UfsBRANCH	GQ885837

3114fin:

A369COPE	GQ885838
AdoNEOPT	GQ885839
AeliPYCNO	GQ885840
AhiPYCNO	GQ885841
Arg2BIURA	GQ885842
Asa3BRANCH	GQ885843
Avu3MALA	GQ885844
BbaTHECOS	GQ885845
CfrTHECOS	GQ885846
CliZYGEN	GQ885847
Crp2ARACH	GQ885848
Ctas2CHILO	GQ885849
Din2ARACH	GQ885850
EafCOPE	GQ885851
EfrDIPLUR	GQ885852
EgigARACH	GQ885853
EinEPHEM	GQ885854
ElePYCNO	GQ885855
ErwONYCH	GQ885856
EuryPAURO	GQ885857
Han2SYMPH	GQ885858
IpumARACH	GQ885859
IveODONAT	GQ885860
JapDIPLUR	GQ885861
LeanTHECOS	GQ885862
LemMALA	GQ885863
Lle2BRANCH	GQ885864
LlyODONAT	GQ885865
LnigARACH	GQ885866
LoxTHECOS	GQ885867
MayEPHEM	GQ885868
NeomMALA	GQ885869
NmeZYGEN	GQ885870
PamNEOPT	GQ885871
Pge2DIPLO	GQ885872
Pno2ONYCH	GQ885873
PsaARCHEO	GQ885874
PwhARACH	GQ885875
ScolCHILO	GQ885876
Scu3SYMPH	GQ885877
SpoCHILO	GQ885878
Tom2COLL	GQ885879
UfsBRANCH	GQ885880

3121fin:

A369COPE	GQ885881
AarPENTA	GQ885882
AchARACH	GQ885883
AdoNEOPT	GQ885884
AeliPYCNO	GQ885885
AhiPYCNO	GQ885886
Amb2ARACH	GQ885887
Arg2BIURA	GQ885888
Asa3BRANCH	GQ885889
Avu3MALA	GQ885890
ClizYGEN	GQ885891
Crp2ARACH	GQ885892
Ctas2CHILO	GQ885893
Din2ARACH	GQ885894
DmaBRANCH	GQ885895
EfrDIPLUR	GQ885896
EgigARACH	GQ885897
EinEPHEM	GQ885898
ElePYCNO	GQ885899
ErwONYCH	GQ885900
EuryPAURO	GQ885901
Han2SYMPH	GQ885902
HariARACH	GQ885903
HmaCEPHAL	GQ885904
IpumARACH	GQ885905
IveODONAT	GQ885906
JapDIPLUR	GQ885907
LemMALA	GQ885908
Lle2BRANCH	GQ885909
LlyODONAT	GQ885910
LnigARACH	GQ885911
LynBRANCH	GQ885912
MayEPHEM	GQ885913
MtdTARD	GQ885914
NeoMALA	GQ885915
PamNEOPT	GQ885916
PepONYCH	GQ885917
Pge2DIPLO	GQ885918
Pma2ARACH	GQ885919
Pno2ONYCH	GQ885920
PsaARCHEO	GQ885921
PwhARACH	GQ885922
ScolCHILO	GQ885923
Scu3SYMPH	GQ885924
SkleOST	GQ885925
SpoCHILO	GQ885926
StpARACH	GQ885927
UfsBRANCH	GQ885928

3136fin:

A369COPE	GQ885929
AarPENTA	GQ885930
AchARACH	GQ885931
AdoNEOPT	GQ885932
AeliPYCNO	GQ885933
AhiPYCNO	GQ885934
AmaDIPLO	GQ885935
Amb2ARACH	GQ885936
Arg2BIURA	GQ885937
Asa3BRANCH	GQ885938
Avu3MALA	GQ885939
BbaTHECOS	GQ885940
CfrTHECOS	GQ885941
ClizYGEN	GQ885942
Col2PYCNO	GQ885943
Cro2XIPHOS	GQ885944
Crp2ARACH	GQ885945
Ctas2CHILO	GQ885946
Din2ARACH	GQ885947
DmaBRANCH	GQ885948
EafCOPE	GQ885949
EfrDIPLUR	GQ885950
EgigARACH	GQ885951
EinEPHEM	GQ885952
ElePYCNO	GQ885953
ErwONYCH	GQ885954
EuryPAURO	GQ885955
Han2SYMPH	GQ885956
HariARACH	GQ885957
HmaCEPHAL	GQ885958
HspARACH	GQ885959
IpumARACH	GQ885960
IveODONAT	GQ885961
JapDIPLUR	GQ885962
LeanTHECOS	GQ885963
LemMALA	GQ885964
Lle2BRANCH	GQ885965
LlyODONAT	GQ885966
LnigARACH	GQ885967
LoxTHECOS	GQ885968
LynBRANCH	GQ885969
MayEPHEM	GQ885970
MbaARCHEO	GQ885971
MtdTARD	GQ885972
NeoMALA	GQ885973
NmeZYGEN	GQ885974
OimCOLL	GQ885975
PamNEOPT	GQ885976
PepONYCH	GQ885977
Pge2DIPLO	GQ885978
Pma2ARACH	GQ885979
Pol2DIPLO	GQ885980
PsaARCHEO	GQ885981
PwhARACH	GQ885982
ScolCHILO	GQ885983
SkleOST	GQ885984
SpoCHILO	GQ885985
StpARACH	GQ885986
Tom2COLL	GQ885987
UfsBRANCH	GQ885988

3152fin:

A369COPE	GQ885989
AarPENTA	GQ885990
AchARACH	GQ885991
AdoNEOPT	GQ885992
AmaDIPLO	GQ885993
Amb2ARACH	GQ885994
Arg2BIURA	GQ885995
Asa3BRANCH	GQ885996
Avu3MALA	GQ885997
BbaTHECOS	GQ885998
Col2PYCNO	GQ885999
Cro2XIPHOS	GQ886000
Crp2ARACH	GQ886001
Ctas2CHILO	GQ886002
Din2ARACH	GQ886003
DmaBRANCH	GQ886004
EafCOPE	GQ886005
EfrDIPLUR	GQ886006
EgigARACH	GQ886007
EinEPHEM	GQ886008
ErwONYCH	GQ886009
Han2SYMPH	GQ886010
HariARACH	GQ886011
HmaCEPHAL	GQ886012
HspARACH	GQ886013
IpumARACH	GQ886014
IveODONAT	GQ886015
JapDIPLUR	GQ886016
LeanTHECOS	GQ886017
Lle2BRANCH	GQ886018
LlyODONAT	GQ886019
LnigARACH	GQ886020
LynBRANCH	GQ886021
MayEPHEM	GQ886022
MtdTARD	GQ886023
NeoMALA	GQ886024
NmeZYGEM	GQ886025
OimCOLL	GQ886026
PamNEOPT	GQ886027
PepONYCH	GQ886028
Pge2DIPLO	GQ886029
Pma2ARACH	GQ886030
Pno2ONYCH	GQ886031
Pol2DIPLO	GQ886032
PsaARCHEO	GQ886033
ScolCHILO	GQ886034
Scu3SYMPH	GQ886035
SkleOST	GQ886036
SpoCHILO	GQ886037
Tom2COLL	GQ886038
UfsBRANCH	GQ886039

3153fin:

A369COPE	GQ886040
AarPENTA	GQ886041
AchARACH	GQ886042
AdoNEOPT	GQ886043
AeliPYCNO	GQ886044
AhiPYCNO	GQ886045
AmaDIPLO	GQ886046
Amb2ARACH	GQ886047
Arg2BIURA	GQ886048
Asa3BRANCH	GQ886049
Avu3MALA	GQ886050
BbaTHECOS	GQ886051
CfrTHECOS	GQ886052
ClizYGEN	GQ886053
Col2PYCNO	GQ886054
Cro2XIPHOS	GQ886055
Ctas2CHILO	GQ886056
Din2ARACH	GQ886057
DmaBRANCH	GQ886058
EafCOPE	GQ886059
EgigARACH	GQ886060
EinEPHEM	GQ886061
ElePYCNO	GQ886062
ErwONYCH	GQ886063
EuryPAURO	GQ886064
Han2SYMPH	GQ886065
HapaOST	GQ886066
HariARACH	GQ886067
HspARACH	GQ886068
IpumARACH	GQ886069
IveODONAT	GQ886070
LeanTHECOS	GQ886071
LemMALA	GQ886072
Lle2BRANCH	GQ886073
LlyODONAT	GQ886074
LoxTHECOS	GQ886075
LynBRANCH	GQ886076
MayEPHEM	GQ886077
MbaARCHEO	GQ886078
NeoMALA	GQ886079
NmeZYGEN	GQ886080
OimCOLL	GQ886081
PamNEOPT	GQ886082
PepONYCH	GQ886083
Pge2DIPLO	GQ886084
Pma2ARACH	GQ886085
Pno2ONYCH	GQ886086
Pol2DIPLO	GQ886087
PsaARCHEO	GQ886088
ScolCHILO	GQ886089
Scu3SYMPH	GQ886090
SkleOST	GQ886091
SpoCHILO	GQ886092
StpARACH	GQ886093
Tom2COLL	GQ886094
UfsBRANCH	GQ886095

3196fin1_3:

A369COPE	GQ886096
AarPENTA	GQ886097
AchARACH	GQ886098
AdoNEOPT	GQ886099
AeliPYCNO	GQ886100
AhiPYCNO	GQ886101
AmaDIPLO	GQ886102
Amb2ARACH	GQ886103
Arg2BIURA	GQ886104
Asa3BRANCH	GQ886105
Avu3MALA	GQ886106
BbaTHECOS	GQ886107
CfrTHECOS	GQ886108
ClizYGEN	GQ886109
Col2PYCNO	GQ886110
Crp2ARACH	GQ886111
Ctas2CHILO	GQ886112
Din2ARACH	GQ886113
DmaBRANCH	GQ886114
DtyMYSTACO	GQ886115
EafCOPE	GQ886116
EfrDIPLUR	GQ886117
EinEPHEM	GQ886118
ElePYCNO	GQ886119
EuryPAURO	GQ886120
Han2SYMPH	GQ886121
HariARACH	GQ886122
HmaCEPHAL	GQ886123
HspARACH	GQ886124
IpumARACH	GQ886125
IveODONAT	GQ886126
JapDIPLUR	GQ886127
LemMALA	GQ886128
Lle2BRANCH	GQ886129
LlyODONAT	GQ886130
LnigARACH	GQ886131
LoxTHECOS	GQ886132
LynBRANCH	GQ886133
MayEPHEM	GQ886134
MbaARCHEO	GQ886135
MtdTARD	GQ886136
NeoMALA	GQ886137
NmeZYGEN	GQ886138
OimCOLL	GQ886139
PamNEOPT	GQ886140
Pge2DIPLO	GQ886141
Pma2ARACH	GQ886142
Pno2ONYCH	GQ886143
Pol2DIPLO	GQ886144
PsaARCHEO	GQ886145
PwhARACH	GQ886146
ScolCHILO	GQ886147
Scu3SYMPH	GQ886148
SkleOST	GQ886149
SpoCHILO	GQ886150
StpARACH	GQ886151
Tom2COLL	GQ886152
UfsBRANCH	GQ886153

3196fin5_6:

AarPENTA	GQ886154
AchARACH	GQ886155
AdoNEOPT	GQ886156
AeliPYCNO	GQ886157
AhiPYCNO	GQ886158
AmaDIPLO	GQ886159
Amb2ARACH	GQ886160
Arg2BIURA	GQ886161
Asa3BRANCH	GQ886162
Avu3MALA	GQ886163
BbaTHECOS	GQ886164
CfrTHECOS	GQ886165
ClizYGEN	GQ886166
Col2PYCNO	GQ886167
Cro2XIPHOS	GQ886168
Crp2ARACH	GQ886169
Ctas2CHILO	GQ886170
Din2ARACH	GQ886171
DmaBRANCH	GQ886172
DtyMYSTACO	GQ886173
EafCOPE	GQ886174
EfrDIPLUR	GQ886175
EgigARACH	GQ886176
EinEPHEM	GQ886177
ElePYCNO	GQ886178
EuryPAURO	GQ886179
Han2SYMPH	GQ886180
HariARACH	GQ886181
HmaCEPHAL	GQ886182
HspARACH	GQ886183
IpumARACH	GQ886184
IveODONAT	GQ886185
JapDIPLUR	GQ886186
LeanTHECOS	GQ886187
LemMALA	GQ886188
Lle2BRANCH	GQ886189
LlyODONAT	GQ886190
LnigARACH	GQ886191
LoxTHECOS	GQ886192
LynBRANCH	GQ886193
MayEPHEM	GQ886194
MbaARCHEO	GQ886195
NeoMALA	GQ886196
NmeZYGEN	GQ886197
OimCOLL	GQ886198
PamNEOPT	GQ886199
PepONYCH	GQ886200
Pge2DIPLO	GQ886201
Pma2ARACH	GQ886202
Pno2ONYCH	GQ886203
Pol2DIPLO	GQ886204
PsaARCHEO	GQ886205
PwhARACH	GQ886206
ScolCHILO	GQ886207
Scu3SYMPH	GQ886208
SkleOST	GQ886209
SpoCHILO	GQ886210
StpARACH	GQ886211
Tom2COLL	GQ886212
UfsBRANCH	GQ886213

3202fin:

AarPENTA	GQ886214
AchARACH	GQ886215
AdoNEOPT	GQ886216
AeliPYCNO	GQ886217
AhiPYCNO	GQ886218
AmaDIPLO	GQ886219
Amb2ARACH	GQ886220
Arg2BIURA	GQ886221
Avu3MALA	GQ886222
BbaTHECOS	GQ886223
ClizYGEN	GQ886224
Col2PYCNO	GQ886225
Cro2XIPHOS	GQ886226
Crp2ARACH	GQ886227
Ctas2CHILO	GQ886228
DmaBRANCH	GQ886229
DtyMYSTACO	GQ886230
EafCOPE	GQ886231
EfrDIPLUR	GQ886232
EinEPHEM	GQ886233
ErwONYCH	GQ886234
EuryPAURO	GQ886235
Han2SYMPH	GQ886236
HmaCEPHAL	GQ886237
IveODONAT	GQ886238
JapDIPLUR	GQ886239
LeanTHECOS	GQ886240
LemMALA	GQ886241
Lle2BRANCH	GQ886242
LlyODONAT	GQ886243
LnigARACH	GQ886244
LoxTHECOS	GQ886245
LynBRANCH	GQ886246
MayEPHEM	GQ886247
MbaARCHEO	GQ886248
MtdTARD	GQ886249
NmeZYGEN	GQ886250
OimCOLL	GQ886251
PamNEOPT	GQ886252
PepONYCH	GQ886253
Pge2DIPLO	GQ886254
Pma2ARACH	GQ886255
Pno2ONYCH	GQ886256
Pol2DIPLO	GQ886257
PsaARCHEO	GQ886258
PwhARACH	GQ886259
ScolCHILO	GQ886260
Scu3SYMPH	GQ886261
SkleOST	GQ886262
SpoCHILO	GQ886263
StpARACH	GQ886264
Tom2COLL	GQ886265

8018fin:

AchARACH	GQ886266
AmaDIPLO	GQ886267
Amb2ARACH	GQ886268
Arg2BIURA	GQ886269
Asa3BRANCH	GQ886270
CfrTHECOS	GQ886271
ClizYGEN	GQ886272
Col2PYCNO	GQ886273
Cro2XIPHOS	GQ886274
Crp2ARACH	GQ886275
Ctas2CHILO	GQ886276
Din2ARACH	GQ886277
DmaBRANCH	GQ886278
EafCOPE	GQ886279
EgigARACH	GQ886280
EinEPHEM	GQ886281
HapaOST	GQ886282
HariARACH	GQ886283
HmaCEPHAL	GQ886284
HspARACH	GQ886285
IpumARACH	GQ886286
IveODONAT	GQ886287
JapDIPLUR	GQ886288
LeanTHECOS	GQ886289
Lle2BRANCH	GQ886290
LlyODONAT	GQ886291
LnigARACH	GQ886292
LynBRANCH	GQ886293
MayEPHEM	GQ886294
NmeZYGEN	GQ886295
OimCOLL	GQ886296
PamNEOPT	GQ886297
PepONYCH	GQ886298
Pma2ARACH	GQ886299
Pno2ONYCH	GQ886300
PsaARCHEO	GQ886301
PwhARACH	GQ886302
ScolCHILO	GQ886303
Scu3SYMPH	GQ886304
SkleOST	GQ886305
SpoCHILO	GQ886306
StpARACH	GQ886307
Tom2COLL	GQ886308
UfsBRANCH	GQ886309

8028fin:

AchARACH	GQ886310
AdoNEOPT	GQ886311
AeliPYCNO	GQ886312
AhiPYCNO	GQ886313
AmaDIPLO	GQ886314
Amb2ARACH	GQ886315
BbaTHECOS	GQ886316
CfrTHECOS	GQ886317
Col2PYCNO	GQ886318
Crp2ARACH	GQ886319
Ctas2CHILO	GQ886320
DtyMYSTACO	GQ886321
EafCOPE	GQ886322
ElePYCNO	GQ886323
ErwONYCH	GQ886324
Han2SYMPH	GQ886325
HapaOST	GQ886326
HariARACH	GQ886327
HmaCEPHAL	GQ886328
HspARACH	GQ886329
IveODONAT	GQ886330
JapDIPLUR	GQ886331
LemMALA	GQ886332
Lle2BRANCH	GQ886333
LlyODONAT	GQ886334
LoxTHECOS	GQ886335
MtdTARD	GQ886336
OimCOLL	GQ886337
PepONYCH	GQ886338
Pge2DIPLO	GQ886339
Pma2ARACH	GQ886340
Pno2ONYCH	GQ886341
PsaARCHEO	GQ886342
PwhARACH	GQ886343
ScolCHILO	GQ886344
Scu3SYMPH	GQ886345
SkleOST	GQ886346
SpoCHILO	GQ886347
StpARACH	GQ886348

8029fin:

A369COPE	GQ886349
AarPENTA	GQ886350
AchARACH	GQ886351
AdoNEOPT	GQ886352
AeliPYCNO	GQ886353
AhiPYCNO	GQ886354
AmaDIPLO	GQ886355
Amb2ARACH	GQ886356
Arg2BIURA	GQ886357
Asa3BRANCH	GQ886358
Avu3MALA	GQ886359
BbaTHECOS	GQ886360
ClizYGEN	GQ886361
Col2PYCNO	GQ886362
Crp2ARACH	GQ886363
Ctas2CHILO	GQ886364
Din2ARACH	GQ886365
DmaBRANCH	GQ886366
DtyMYSTACO	GQ886367
EafCOPE	GQ886368
EfrDIPLUR	GQ886369
EgigARACH	GQ886370
EinEPHEM	GQ886371
ElePYCNO	GQ886372
ErwONYCH	GQ886373
EuryPAURO	GQ886374
Han2SYMPH	GQ886375
HapaOST	GQ886376
HariARACH	GQ886377
HmaCEPHAL	GQ886378
HspARACH	GQ886379
IpumARACH	GQ886380
IveODONAT	GQ886381
JapDIPLUR	GQ886382
LemMALA	GQ886383
Lle2BRANCH	GQ886384
LlyODONAT	GQ886385
LnigARACH	GQ886386
LoxTHECOS	GQ886387
MayEPHEM	GQ886388
MbaARCHEO	GQ886389
NeoMALA	GQ886390
NmeZYGEN	GQ886391
OimCOLL	GQ886392
PamNEOPT	GQ886393
PepONYCH	GQ886394
Pge2DIPLO	GQ886395
Pma2ARACH	GQ886396
Pno2ONYCH	GQ886397
Pol2DIPLO	GQ886398
PsaARCHEO	GQ886399
PwhARACH	GQ886400
ScolCHILO	GQ886401
Scu3SYMPH	GQ886402
SpoCHILO	GQ886403
StpARACH	GQ886404
Tom2COLL	GQ886405
UfsBRANCH	GQ886406

8053fin:

AarPENTA	GQ886407
AchARACH	GQ886408
AdoNEOPT	GQ886409
AeliPYCNO	GQ886410
AhiPYCNO	GQ886411
AmaDIPLO	GQ886412
Amb2ARACH	GQ886413
Asa3BRANCH	GQ886414
Avu3MALA	GQ886415
BbaTHECOS	GQ886416
CfrTHECOS	GQ886417
ClizYGEN	GQ886418
Col2PYCNO	GQ886419
Cro2XIPHOS	GQ886420
Crp2ARACH	GQ886421
Din2ARACH	GQ886422
DtyMYSTACO	GQ886423
EfrDIPLUR	GQ886424
EgigARACH	GQ886425
EinEPHEM	GQ886426
ElePYCNO	GQ886427
ErwONYCH	GQ886428
EuryPAURO	GQ886429
Han2SYMPH	GQ886430
HariARACH	GQ886431
HmaCEPHAL	GQ886432
HspARACH	GQ886433
IpumARACH	GQ886434
IveODONAT	GQ886435
JapDIPLUR	GQ886436
LeanTHECOS	GQ886437
LemMALA	GQ886438
LlyODONAT	GQ886439
LnigARACH	GQ886440
LoxTHECOS	GQ886441
LynBRANCH	GQ886442
MayEPHEM	GQ886443
NeoMALA	GQ886444
NmeZYGEN	GQ886445
OimCOLL	GQ886446
PamNEOPT	GQ886447
PepONYCH	GQ886448
Pma2ARACH	GQ886449
Pno2ONYCH	GQ886450
Pol2DIPLO	GQ886451
PsaARCHEO	GQ886452
PwhARACH	GQ886453
ScolCHILO	GQ886454
Scu3SYMPH	GQ886455
SkleOST	GQ886456
SpoCHILO	GQ886457
Tom2COLL	GQ886458
UfsBRANCH	GQ886459

8070fin:

A369COPE	GQ886460
AarPENTA	GQ886461
AchARACH	GQ886462
AdoNEOPT	GQ886463
AhiPYCNO	GQ886464
AmaDIPLO	GQ886465
Amb2ARACH	GQ886466
BbaTHECOS	GQ886467
CfrTHECOS	GQ886468
CliZYGEN	GQ886469
Cro2XIPHOS	GQ886470
Crp2ARACH	GQ886471
Ctas2CHILO	GQ886472
Din2ARACH	GQ886473
DmaBRANCH	GQ886474
EafCOPE	GQ886475
EfrDIPLUR	GQ886476
EinEPHEM	GQ886477
EuryPAURO	GQ886478
HariARACH	GQ886479
HmaCEPHAL	GQ886480
HspARACH	GQ886481
IpumARACH	GQ886482
IveODONAT	GQ886483
JapDIPLUR	GQ886484
LeanTHECOS	GQ886485
LemMALA	GQ886486
Lle2BRANCH	GQ886487
LlyODONAT	GQ886488
LnigARACH	GQ886489
LoxTHECOS	GQ886490
LynBRANCH	GQ886491
MayEPHEM	GQ886492
MbaARCHEO	GQ886493
NmeZYGEN	GQ886494
PamNEOPT	GQ886495
PepONYCH	GQ886496
Pge2DIPLO	GQ886497
Pma2ARACH	GQ886498
Pol2DIPLO	GQ886499
PsaARCHEO	GQ886500
PwhARACH	GQ886501
ScolCHILO	GQ886502
Scu3SYMPH	GQ886503
SpoCHILO	GQ886504

8091fin:

A369COPE	GQ886505
AarPENTA	GQ886506
AchARACH	GQ886507
AhiPYCNO	GQ886508
Amb2ARACH	GQ886509
Asa3BRANCH	GQ886510
Avu3MALA	GQ886511
Cro2XIPHOS	GQ886512
Din2ARACH	GQ886513
EafCOPE	GQ886514
EgigARACH	GQ886515
EinEPHEM	GQ886516
Han2SYMPH	GQ886517
HariARACH	GQ886518
HspARACH	GQ886519
IveODONAT	GQ886520
JapDIPLUR	GQ886521
LemMALA	GQ886522
Lle2BRANCH	GQ886523
LlyODONAT	GQ886524
LnigARACH	GQ886525
LoxTHECOS	GQ886526
LynBRANCH	GQ886527
MbaARCHEO	GQ886528
NeoMALA	GQ886529
NmeZYGEM	GQ886530
PamNEOPT	GQ886531
PepONYCH	GQ886532
Pge2DIPLO	GQ886533
Pno2ONYCH	GQ886534
Pol2DIPLO	GQ886535
PsaARCHEO	GQ886536
PwhARACH	GQ886537
StpARACH	GQ886538
UfsBRANCH	GQ886539

acc:

A369COPE	GQ886540
AeliPYCNO	GQ886541
AhiPYCNO	GQ886542
Amb2ARACH	GQ886543
Arg2BIURA	GQ886544
Asa3BRANCH	GQ886545
Avu3MALA	GQ886546
BbaTHECOS	GQ886547
CfrTHECOS	GQ886548
ClizYGEN	GQ886549
Col2PYCNO	GQ886550
Cro2XIPHOS	GQ886551
Crp2ARACH	GQ886552
Ctas2CHILO	GQ886553
Din2ARACH	GQ886554
DmaBRANCH	GQ886555
DtyMYSTACO	GQ886556
EafCOPE	GQ886557
EgigARACH	GQ886558
ElePYCNO	GQ886559
ErwONYCH	GQ886560
EuryPAURO	GQ886561
HariARACH	GQ886562
HmaCEPHAL	GQ886563
HspARACH	GQ886564
IpumARACH	GQ886565
LeanTHECOS	GQ886566
LemMALA	GQ886567
Lle2BRANCH	GQ886568
MtdTARD	GQ886569
NeoMALA	GQ886570
OimCOLL	GQ886571
PamNEOPT	GQ886572
PepONYCH	GQ886573
Pma2ARACH	GQ886574
Pno2ONYCH	GQ886575
PsaARCHEO	GQ886576
PwhARACH	GQ886577
ScolCHILO	GQ886578
SpoCHILO	GQ886579
StpARACH	GQ886580
Tom2COLL	GQ886581
UfsBRANCH	GQ886582

aspec2_6:

AeliPYCNO	GQ886583
AhiPYCNO	GQ886584
Amb2ARACH	GQ886585
Arg2BIURA	GQ886586
Avu3MALA	GQ886587
BbaTHECOS	GQ886588
CfrTHECOS	GQ886589
ClizYGEN	GQ886590
Col2PYCNO	GQ886591
Cro2XIPHOS	GQ886592
Crp2ARACH	GQ886593
Ctas2CHILO	GQ886594
DmaBRANCH	GQ886595
EgigARACH	GQ886596
ElePYCNO	GQ886597
ErwONYCH	GQ886598
HariARACH	GQ886599
HmaCEPHAL	GQ886600
HspARACH	GQ886601
JapDIPLUR	GQ886602
LeanTHECOS	GQ886603
LemMALA	GQ886604
MayEPHEM	GQ886605
NeoMALA	GQ886606
OimCOLL	GQ886607
PamNEOPT	GQ886608
PsaARCHEO	GQ886609
ScolCHILO	GQ886610
SpoCHILO	GQ886611
Tom2COLL	GQ886612
UfsBRANCH	GQ886613

aspec11_12:

AeliPYCNO	GQ886614
AhiPYCNO	GQ886615
Amb2ARACH	GQ886616
Arg2BIURA	GQ886617
Asa3BRANCH	GQ886618
Avu3MALA	GQ886619
BbaTHECOS	GQ886620
CfrTHECOS	GQ886621
ClizYGEN	GQ886622
Col2PYCNO	GQ886623
Cro2XIPHOS	GQ886624
Crp2ARACH	GQ886625
Ctas2CHILO	GQ886626
Din2ARACH	GQ886627
DmaBRANCH	GQ886628
DtyMYSTACO	GQ886629
EafCOPE	GQ886630
EgigARACH	GQ886631
ElePYCNO	GQ886632
HariARACH	GQ886633
HmaCEPHAL	GQ886634
JapDIPLUR	GQ886635
LeanTHECOS	GQ886636
LemMALA	GQ886637
Lle2BRANCH	GQ886638
MayEPHEM	GQ886639
MtdTARD	GQ886640
NeoMALA	GQ886641
OimCOLL	GQ886642
PamNEOPT	GQ886643
PepONYCH	GQ886644
PsaARCHEO	GQ886645
PwhARACH	GQ886646
ScolCHILO	GQ886647
SpoCHILO	GQ886648
Tom2COLL	GQ886649
UfsBRANCH	GQ886650

aspec19_21:

AeliPYCNO	GQ886651
AhiPYCNO	GQ886652
Amb2ARACH	GQ886653
Arg2BIURA	GQ886654
Asa3BRANCH	GQ886655
Avu3MALA	GQ886656
BbaTHECOS	GQ886657
CfrTHECOS	GQ886658
ClizYGEN	GQ886659
Col2PYCNO	GQ886660
Crp2ARACH	GQ886661
Ctas2CHILO	GQ886662
Din2ARACH	GQ886663
DmaBRANCH	GQ886664
DtyMYSTACO	GQ886665
EafCOPE	GQ886666
EgigARACH	GQ886667
ElePYCNO	GQ886668
ErwONYCH	GQ886669
EuryPAURO	GQ886670
Han2SYMPH	GQ886671
HmaCEPHAL	GQ886672
IpumARACH	GQ886673
JapDIPLUR	GQ886674
LeanTHECOS	GQ886675
LemMALA	GQ886676
Lle2BRANCH	GQ886677
MayEPHEM	GQ886678
MtdTARD	GQ886679
NeoMALA	GQ886680
OimCOLL	GQ886681
PamNEOPT	GQ886682
PepONYCH	GQ886683
Pno2ONYCH	GQ886684
PsaARCHEO	GQ886685
PwhARACH	GQ886686
ScolCHILO	GQ886687
SpoCHILO	GQ886688
Tom2COLL	GQ886689
UfsBRANCH	GQ886690

efla:

AarPENTA	GQ886691
AdoNEOPT	GQ886692
AeliPYCNO	GQ886693
AhiPYCNO	GQ886694
DmaBRANCH	GQ886695
DtyMYSTACO	GQ886696
EgigARACH	GQ886697
EinEPHEM	GQ886698
ErwONYCH	GQ886699
IpumARACH	GQ886700
IveODONAT	GQ886701
LlyODONAT	GQ886702
LnigARACH	GQ886703
PepONYCH	GQ886704
Pno2ONYCH	GQ886705
PwhARACH	GQ886706

ef2:

AarPENTA	GQ886707
AchARACH	GQ886708
AdoNEOPT	GQ886709
AeliPYCNO	GQ886710
AhiPYCNO	GQ886711
Amb2ARACH	GQ886712
Crp2ARACH	GQ886713
Din2ARACH	GQ886714
DmaBRANCH	GQ886715
DtyMYSTACO	GQ886716
EgigARACH	GQ886717
EinEPHEM	GQ886718
ErwONYCH	GQ886719
HariARACH	GQ886720
HspARACH	GQ886721
IpumARACH	GQ886722
LlyODONAT	GQ886723
LnigARACH	GQ886724
PepONYCH	GQ886725
Pma2ARACH	GQ886726
PwhARACH	GQ886727
StpARACH	GQ886728

polii:

AarPENTA	GQ886729
AchARACH	GQ886730
AdoNEOPT	GQ886731
AeliPYCNO	GQ886732
AhiPYCNO	GQ886733
Amb2ARACH	GQ886734
Crp2ARACH	GQ886735
Ctas2CHILO	GQ886736
Din2ARACH	GQ886737
DmaBRANCH	GQ886738
EgigARACH	GQ886739
EinEPHEM	GQ886740
ErwONYCH	GQ886741
IpumARACH	GQ886742
IveODONAT	GQ886743
LlyODONAT	GQ886744
LnigARACH	GQ886745
PepONYCH	GQ886746
Pma2ARACH	GQ886747
Pno2ONYCH	GQ886748
PwhARACH	GQ886749
StpARACH	GQ886750

Previously cited GenBank accession numbers for all genes except EF-1alpha, EF-2 and PolIII can be found in:

Ref. 16 (Regier, J.C., Shultz, J.W., Ganley, A.R.D., Hussey, A., Shi, D., Ball, B. Stajich, J.E., Cummings, M.P., Martin, J.W., and Cunningham, C.W. 2008. Resolving Arthropod Phylogeny: Exploring Phylogenetic Signal within 41kb of Protein-coding Nuclear Gene Sequence. *Syst. Biol.* 57: 920-938.)

Previously cited GenBank accession numbers for EF-1alpha, EF-2 and PolIII can be found in:

Regier, J.C., J.W. Shultz, and R.E. Kambic. 2005. Pancrustacean phylogeny: Hexapods are terrestrial crustaceans and maxillopods are not monophyletic. *Proc. R. Soc. Lond. B* 272:305-401.

Regier, J.C., H.M. Wilson, and J.W. Shultz. 2005. Phylogenetic analysis of Myriapoda using three nuclear protein-coding genes. *Mol. Phylog. Evol.* 34:147-158.

Supplementary Table 5. Expanded outgroup sampling.

To extend our outgroup sampling beyond the Onychophora and Tardigrada, we retrieved orthologous sequences for five distantly related taxa (*Priapululus caudatus* (Priapulida), *Caenorhabditis elegans* (Nematoda), *Brugia malayi* (Nematoda), *Lottia gigantea* (Mollusca) and *Homo sapiens* (Deuterostomia)) from whole genome databases (*C. elegans*, *B. malayi*, *H. sapiens*) and an EST database (*P. caudatus*) at Genbank, and from an EST database (*L. gigantea*) at the DOE Joint Genome Institute. Orthologous sequences were identified by blasting each gene as a translated nucleotide query against the translated nucleotide database (NCBI tblastx). Only those sequences were included that matched significantly better over almost the entire query length than any of the other blast hits. The amino acid translations of the selected nucleotide sequences were downloaded and aligned against our existing, masked alignment by using MAFFT (version 6.603b; Ref. 35) with default settings. Masked areas of the existing alignment, and occasionally short stretches of unalignable individual sequences that bordered the mask, were subsequently deleted from the alignment in Geneious (version 4.7.6; www.geneious.com).

Accession numbers:

***Brugia malayi*:** XP_001893622.1, XP_001901506.1, XP_001895617.1, XP_001895919.1, XP_001894567.1, XP_001897269.1, XP_001901913.1, XP_001900309.1, XP_001896500.1, XP_001895013.1, XP_001897611.1, XP_001895791.1, XP_001902388.1, XP_001902446.1, XP_001898682.1, XP_001899038.1, XP_001899767.1, XP_001899767.1, XP_001891813.1, XP_001898798.1, XP_001900869.1, XP_001897626.1, XP_001897627.1, XP_001901951.1, XP_001896639.1, XP_001898305.1, XP_001896237.1, XP_001899825.1, XP_001894503.1, XP_001901400.1, XP_001894060.1, XP_001899288.1, XP_001894336.1, XP_001898894.1, XP_001900677.1, XP_001900562.1, XP_001900562.1, XP_001901105.1, XP_001894202.1, XP_001902057.1, XP_001901357.1, XP_001895763.1, XP_001895763.1, XP_001896149.1, XP_001892909.1, XP_001897606.1, XP_001901433.1, XP_001891856.1, XP_001897999.1, XP_001899519.1, XP_001896989.1, XP_001895649.1, XP_001900986.1, XP_001893872.1, XP_001899464.1, XP_001897022.1, XP_001897022.1, XP_001897022.1, XP_001896880.1, XP_001897144.1, XP_001898310.1

***Caenorhabditis elegans*:** NP_498913.2, NP_496736.1, NP_001022078.1, NP_497139.1, NP_492303.1, NP_001022778.1, NP_496563.1, NP_504661.1, NP_001076631.1, NP_497837.1, NP_501507.1, NP_501064.1, NP_001023374.1, NP_495838.2, NP_494974.2, NP_497853.1, NP_491248.1, NP_502997.1, NP_498785.1, NP_498785.1, NP_001024331.1, NP_502129.1, NP_497235.2, NP_001022416.1, NP_509361.1, NP_508420.1, NP_508420.1, NP_001023732.1, NP_507909.1, NP_509429.1, NP_498260.2, NP_491281.1, NP_501392.1, NP_491165.2, NP_502812.1, NP_001024842.1, NP_741148.2, NP_498047.1, NP_498047.1, NP_491515.2, NP_001022614.1, NP_501998.1, NP_493349.1, NP_499758.1, NP_499260.1, NP_499260.1, NP_492591.1, NP_509572.1, NP_508184.2, NP_492811.1, NP_001040861.1, NP_001021838.1, NP_508711.1, NP_508537.1, NP_508537.1, NP_508537.1, NP_498520.1, NP_492457.1, NP_500523.3

***Homo sapiens*:** NP_002009.1, NP_005580.1, NP_001014794.1, NP_001244.1, NP_004437.2, NP_036299.1, NP_003866.1, NP_064502.9, NP_003127.1, NP_002100.2, NP_004332.2, NP_631895.1, NP_036565.2, NP_079094.1, NP_006436.3, NP_006436.3, NP_001005360.1, NP_000393.4, NP_001610.2, NP_004517.2, NP_000251.3, NP_000251.3, NP_002585.2, NP_004791.1, NP_001596.2, NP_116082.1, NP_005042.1, NP_001349.2, NP_000929.1, NP_000929.1, NP_004682.2, NP_005462.1, NP_004850.1, NP_004850.1, NP_060931.2, NP_858058.1, NP_002798.2, NP_055302.1, NP_001035957.1, NP_060895.1, NP_055448.1, NP_000166.2, NP_001684.2, NP_001084.3, NP_001123910.1, NP_001123910.1, NP_001123910.1, NP_001952.1, NP_000928.1

***Lottia gigantea*:** 202563, 191244, 166805, 104768, 206571, 183856, 207720, 189484, 207454, 205661, 93207, 206258, 205645, 178633, 224575, 137856, 207258, 63809, 217351, 217351, 109709, 186757, 175153, 207293,

207807, 158839, 178090, 206057, 92440, 205596, 184781, 91712, 207403, 86084, 194060, 153655, 53097, 206585, 91606, 192032, 91620, 91620, 205919, 52835, 62006, 239037, 234519, 178765, 178765, 206692, 228184, 206326, 205944, 111316, 117227, 132663, 225779, 177207, 178790, 178589, 199490, 91245, 91245, 91245, 239270, 180085, 180008

Priapulus caudatus: AAT06252.1, ABM05772.1, AAT06193.1, ABB29633.1, ABM74385.1