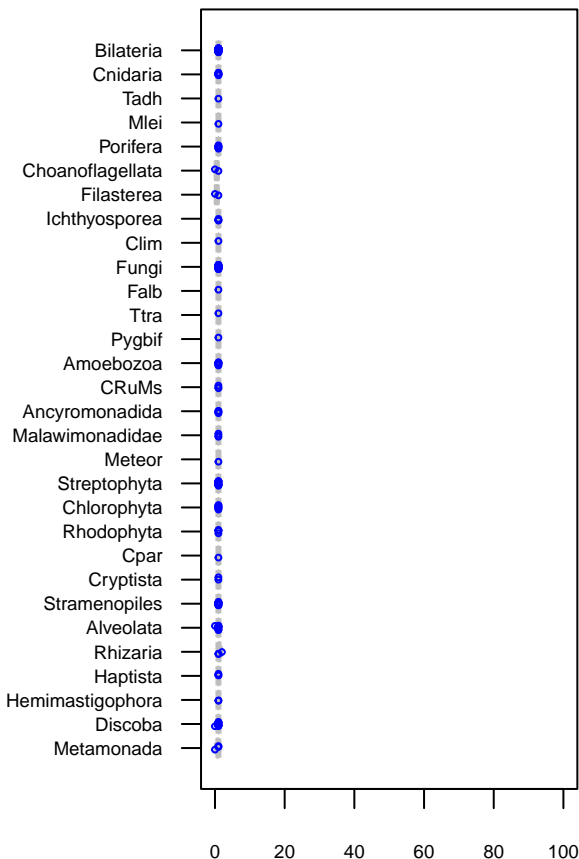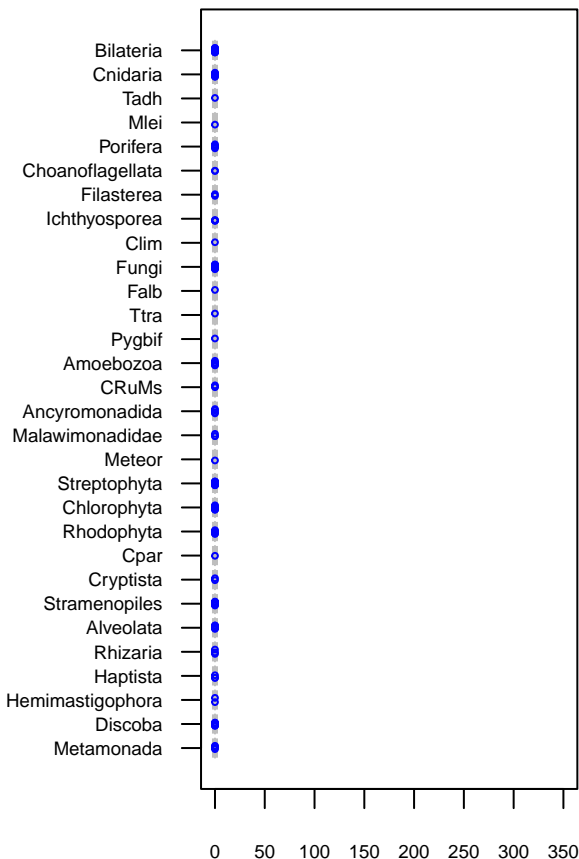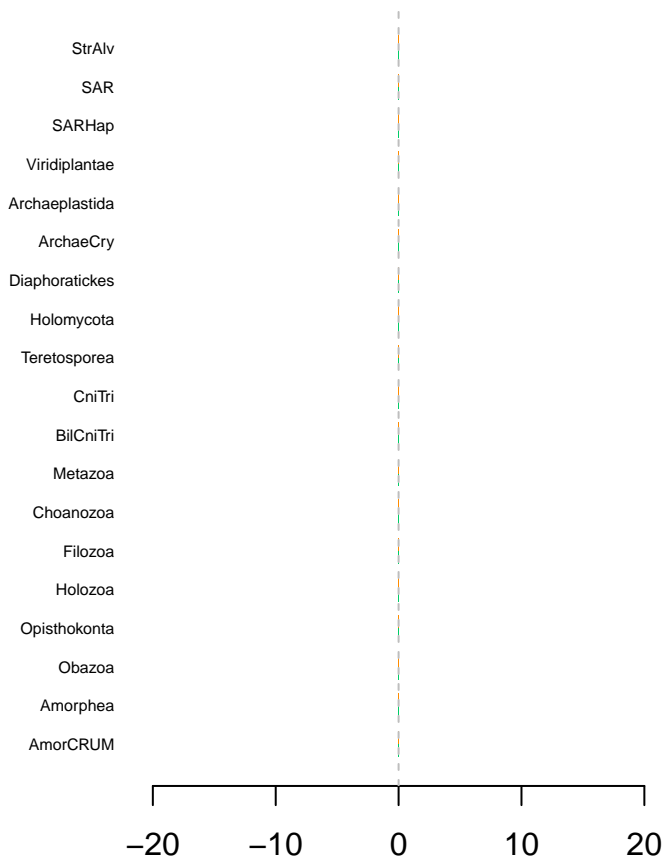**ASF1_hist_chap OG counts in descendant nodes**

ASF1_hist_chap gene counts in descendant nodes

Gains and losses in ancestral nodes, ASF1_hist_chap

StrAlv

SAR

SARHap

Viridiplantae

Archaeplastida

ArchaeCry

Diaphoratickes

Holomycota

Teretosporea

CniTri

BilCniTri

Metazoa

Choanozoa

Filozoa

Holozoa

Opisthokonta

Obazoa

Amorphea

AmorCRUM

−20   −10   0   10   20

Gains and losses in extant nodes, ASF1_hist_chap

	-40	-20	0	20	40

Metamonada
Discoba
Hemimastigophora
Haptista
Rhizaria
Alveolata
Stramenopiles
Cryptista
Cpar
Rhodophyta
Chlorophyta
Streptophyta
Meteor
Malawimonadidae
Ancyromonadida
CRuMs
Amoebozoa
Pygbif
Ttra
Falb
Fungi
Clim
Ichthyosporea
Filasterea
Choanoflagellata
Porifera
Mlei
Tadh
Cnidaria
Bilateria
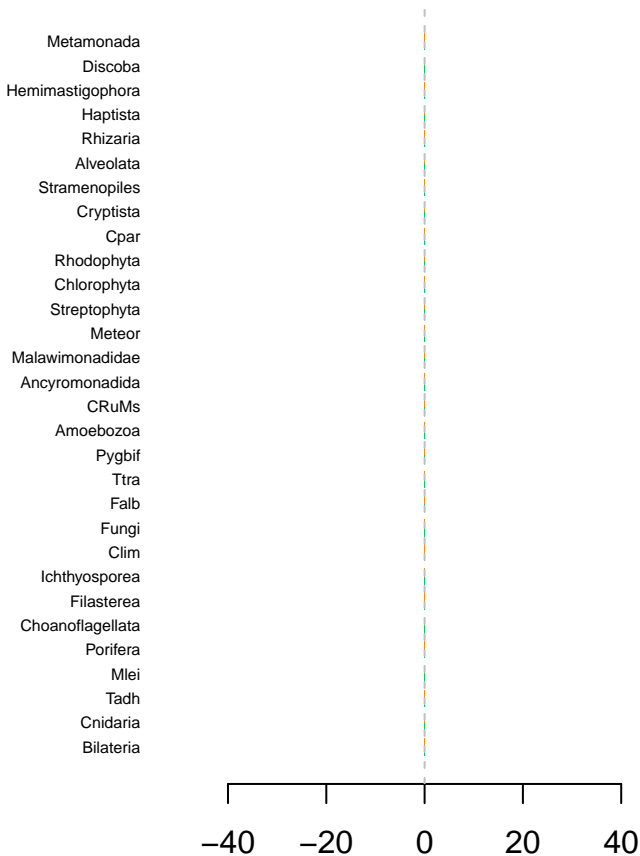
Presence in extant nodes, ASF1_hist_chap

Metamonada n = 1	
Discoba n = 1	
Hemimastigophora n = 1	
Haptista n = 1	
Rhizaria n = 1	
Alveolata n = 1	
Stramenopiles n = 1	
Cryptista n = 1	
Cpar n = 1	
Rhodophyta n = 1	
Chlorophyta n = 1	
Streptophyta n = 1	
Meteor n = 1	
Malawimonadidae n = 1	
Ancyromonadida n = 1	
CRuMs n = 1	
Amoebozoa n = 1	
Pygbif n = 1	
Ttra n = 1	
Falb n = 1	
Fungi n = 1	
Clim n = 1	
Ichthyosporea n = 1	
Filasterea n = 1	
Choanoflagellata n = 1	
Porifera n = 1	
Mlei n = 1	
Tadh n = 1	
Cnidaria n = 1	
Bilateria n = 1	

0   20   40   60   80   100

Presence in ancestral nodes, ASF1_hist_chap

StrAlv n = 1
SAR n = 1
SARHap n = 1
Viridiplantae n = 1
Archaeplastida n = 1
ArchaeCry n = 1
Diaphoratickes n = 1
Holomycota n = 1
Teretosporea n = 1
CniTri n = 1
BilCniTri n = 1
Metazoa n = 1
Choanozoa n = 1
Filozoa n = 1
Holozoa n = 1
Opisthokonta n = 1
Obazoa n = 1
Amorphea n = 1
AmorCRUM n = 1

0   20   40   60   80   100