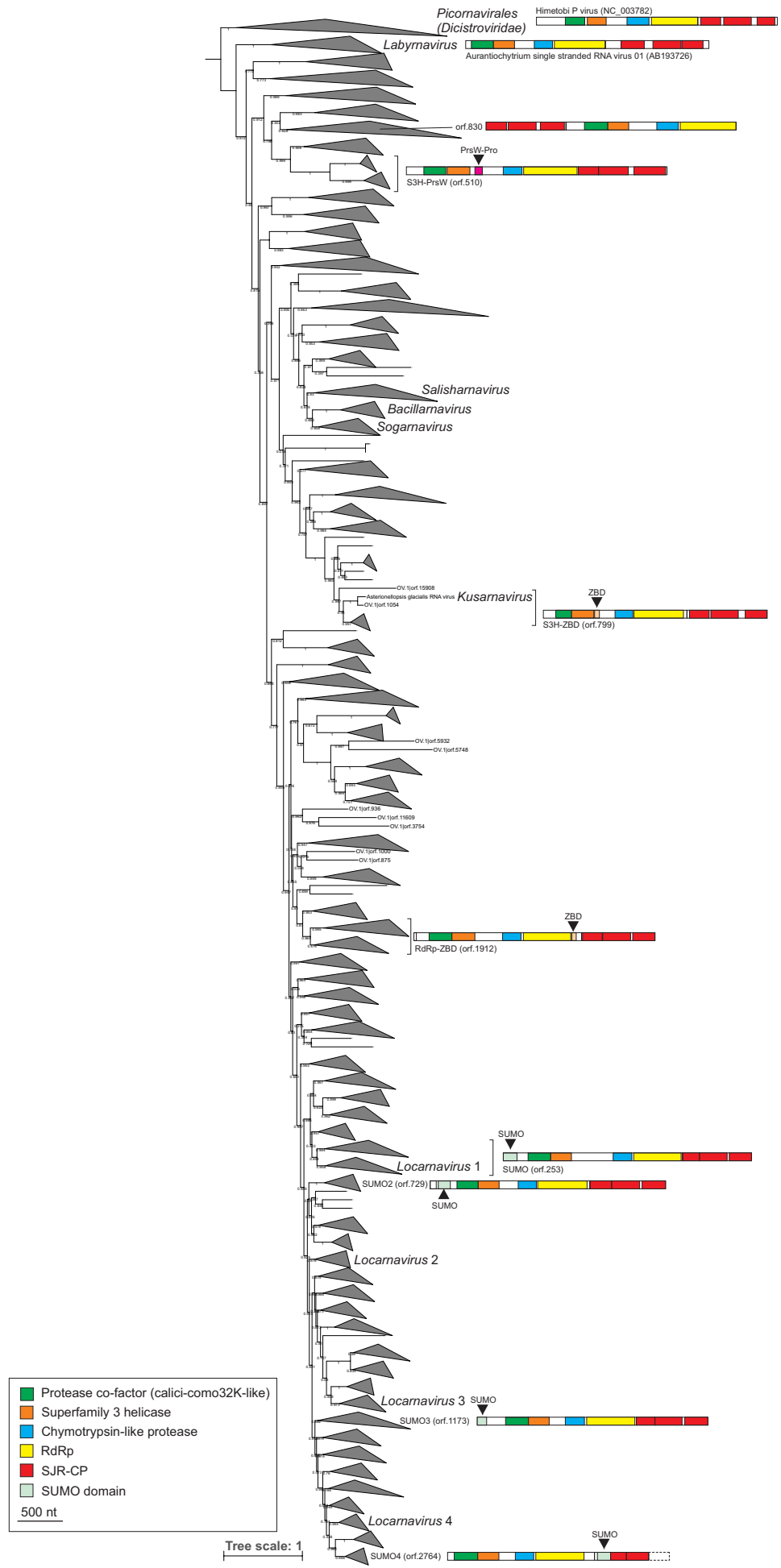
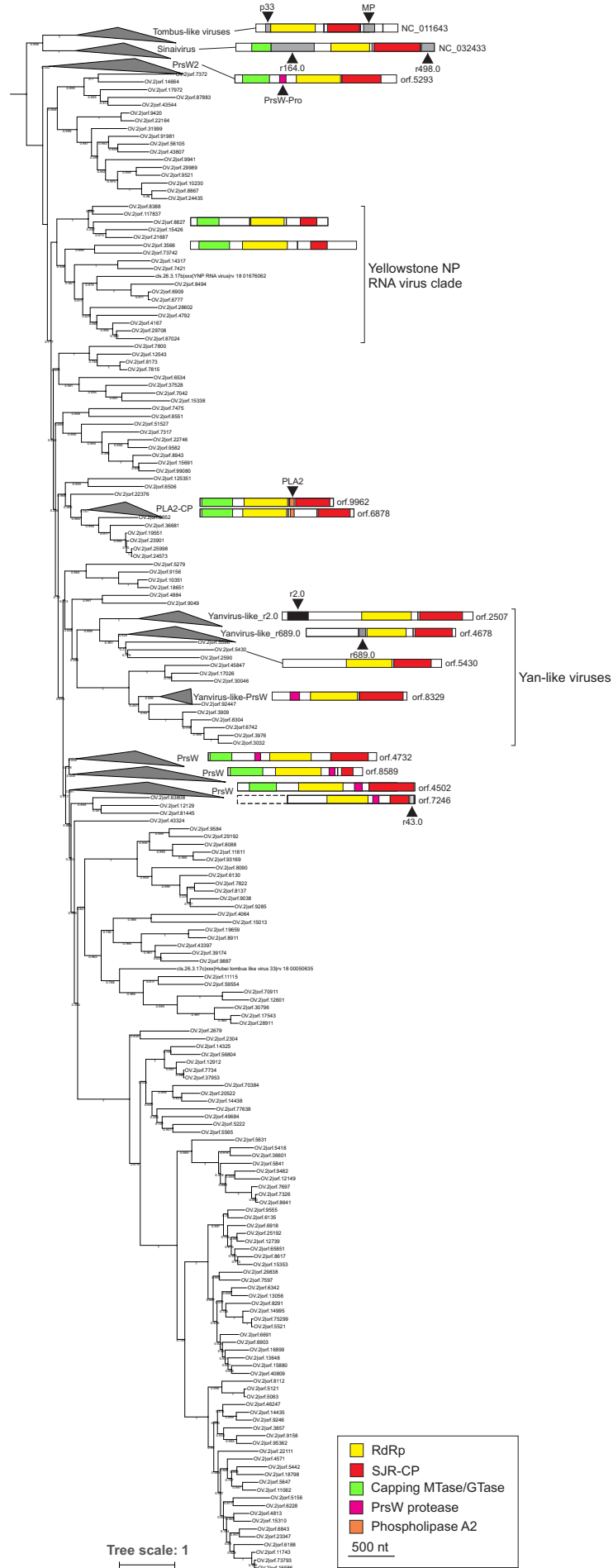


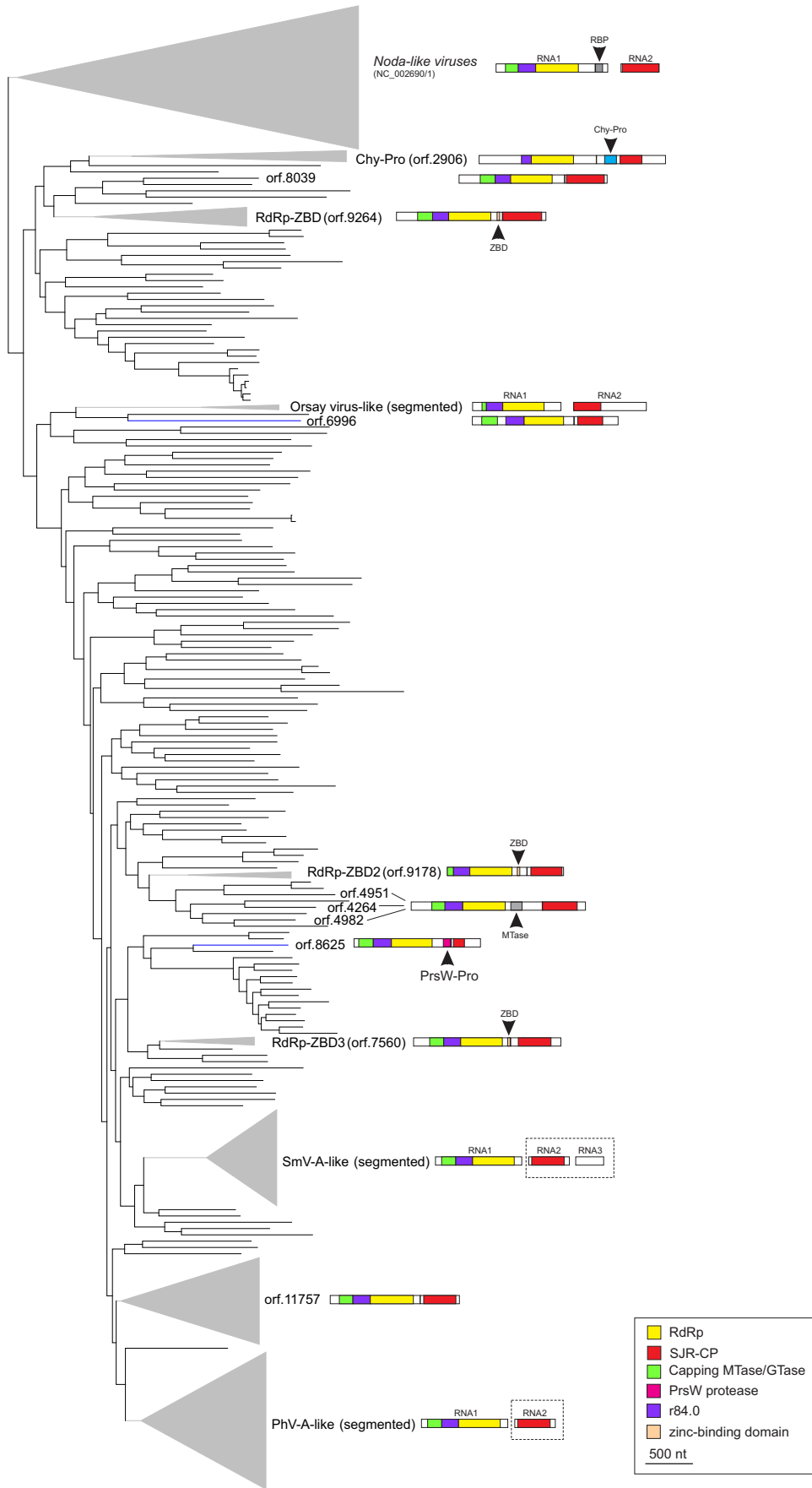
Ov1



Ov2



Ov3

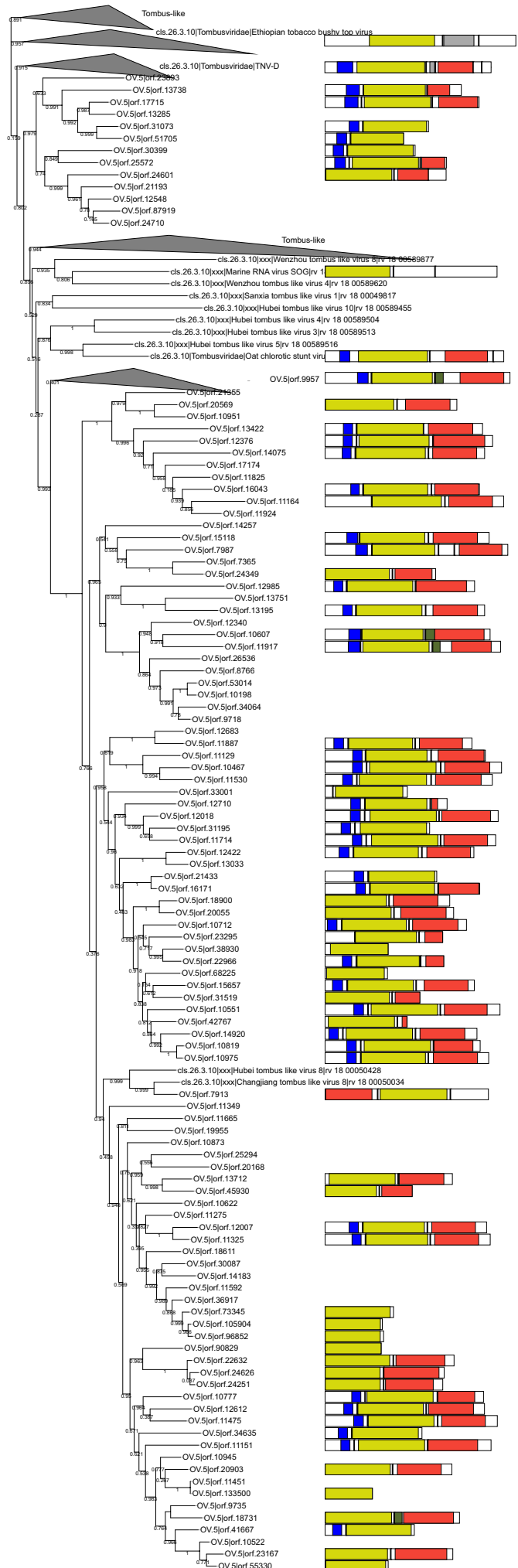


Ov5

Tree scale: 1

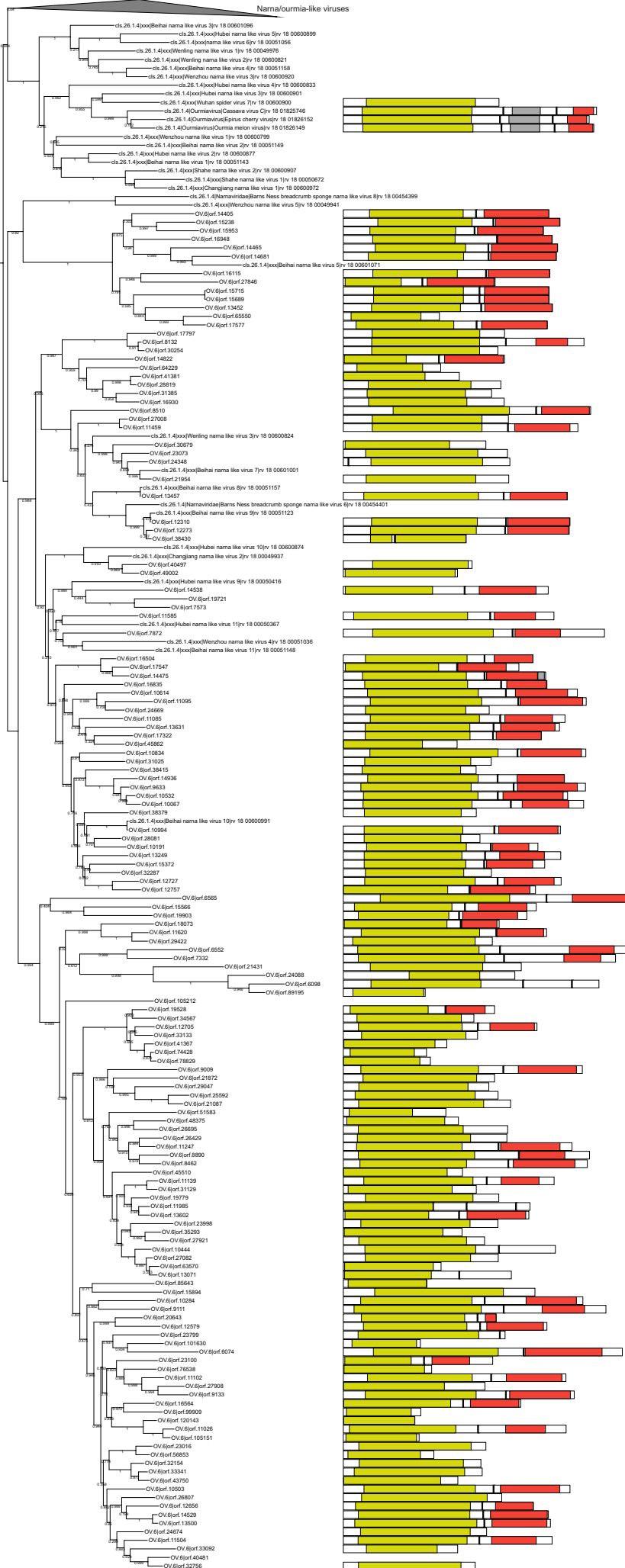
Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others



Ov6

Nama/bourmia-like viruses

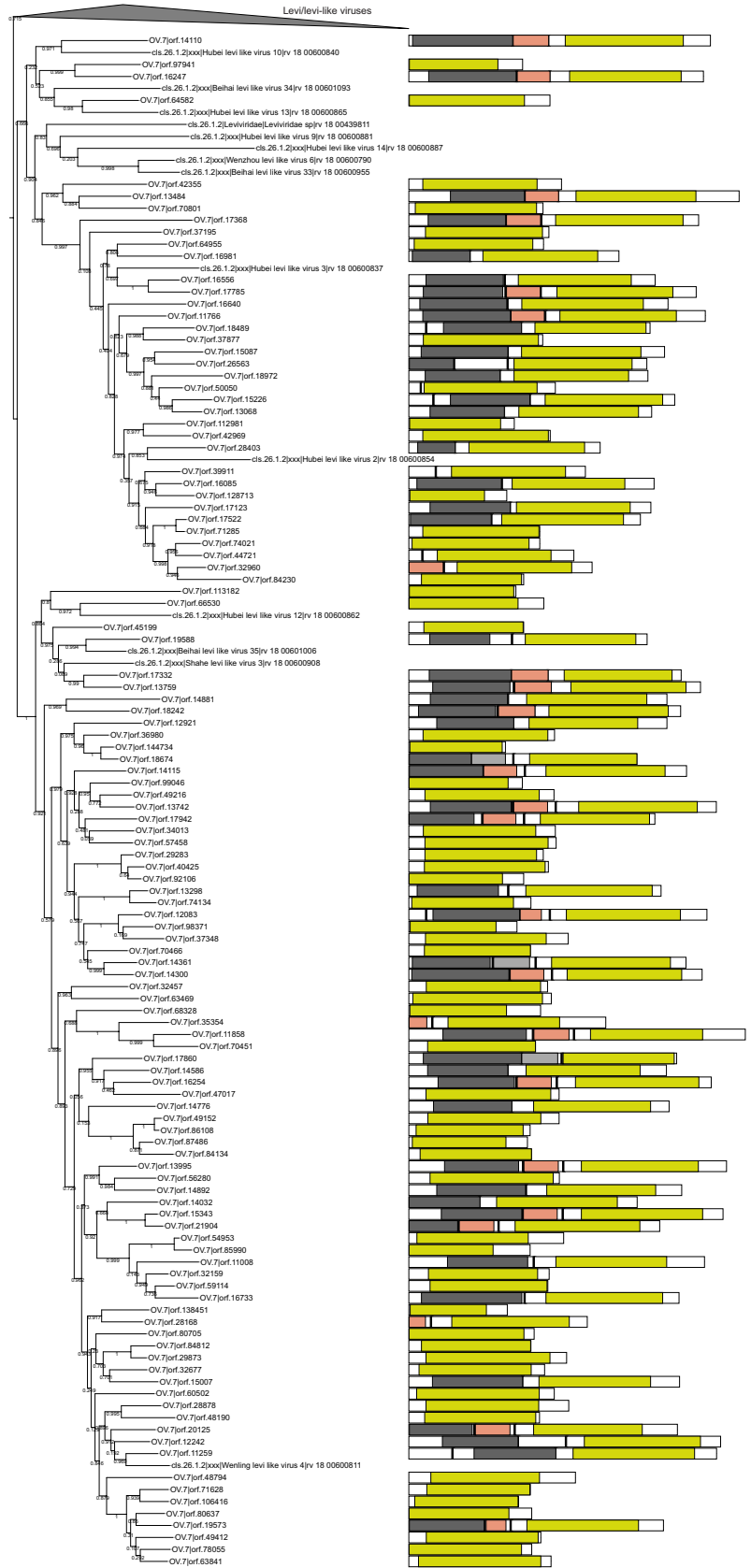


Tree scale: 1

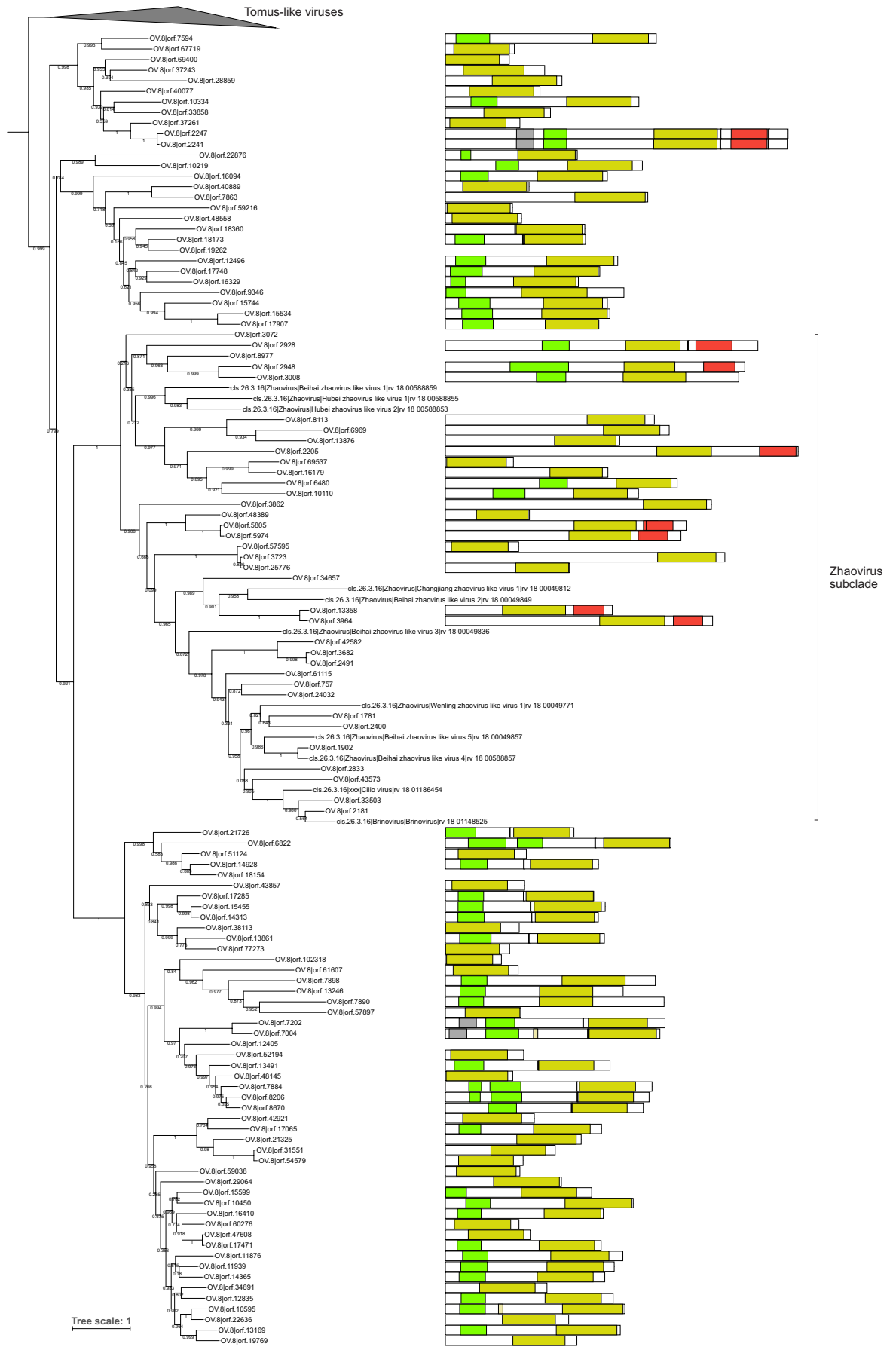
Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

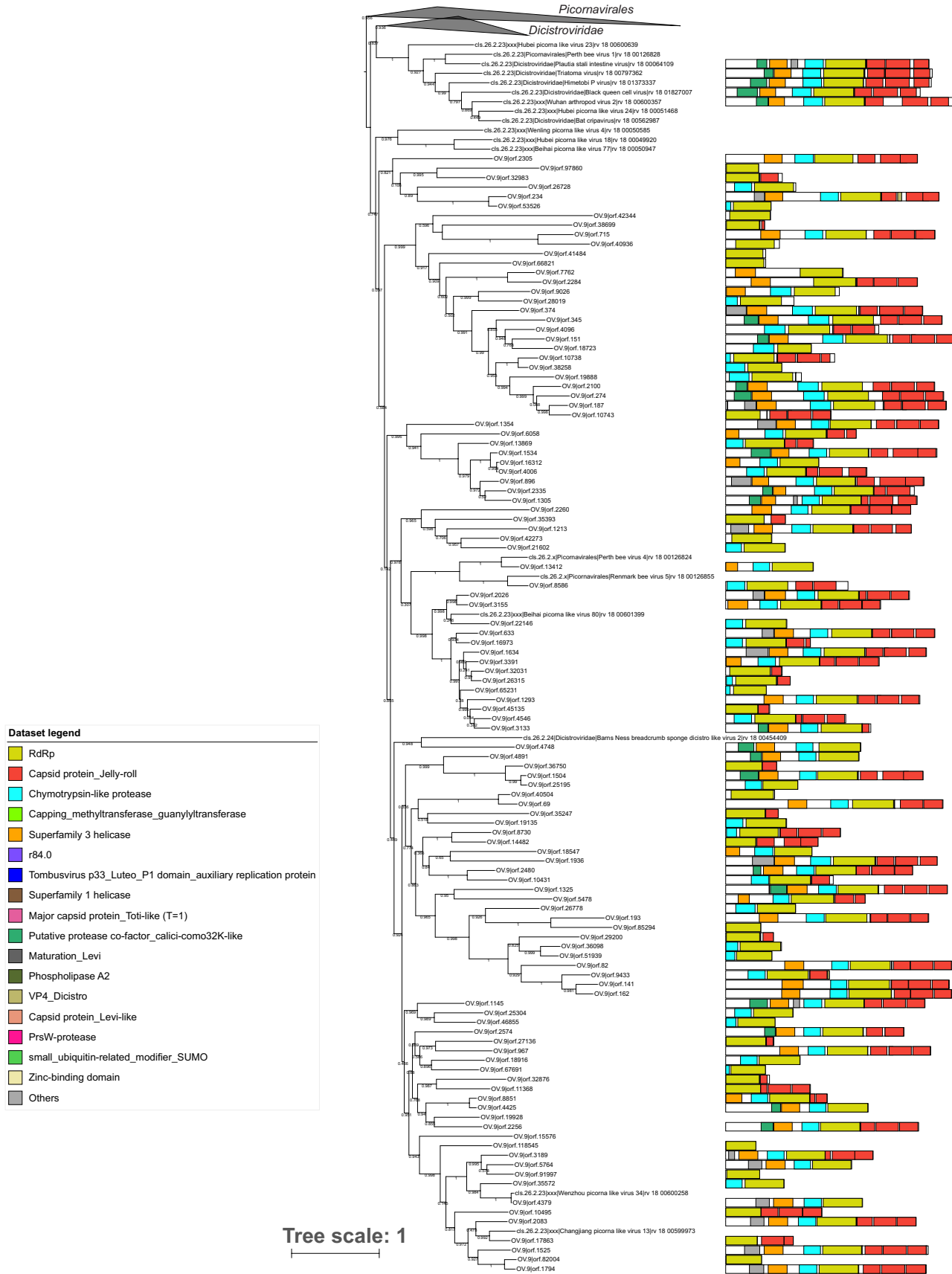
Ov7



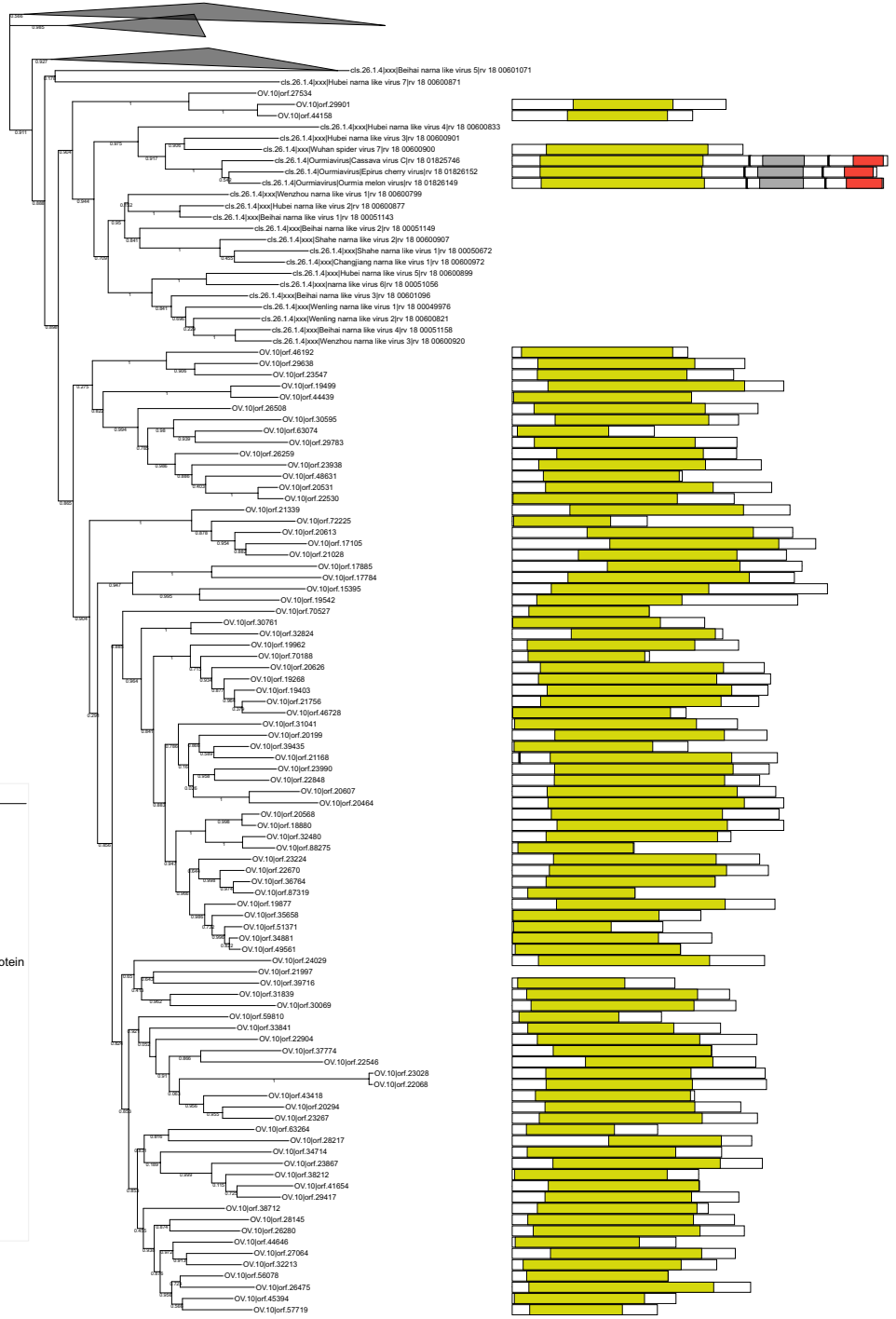
Ov8



Ov9



Ov10



Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-corno32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

Tree scale: 1



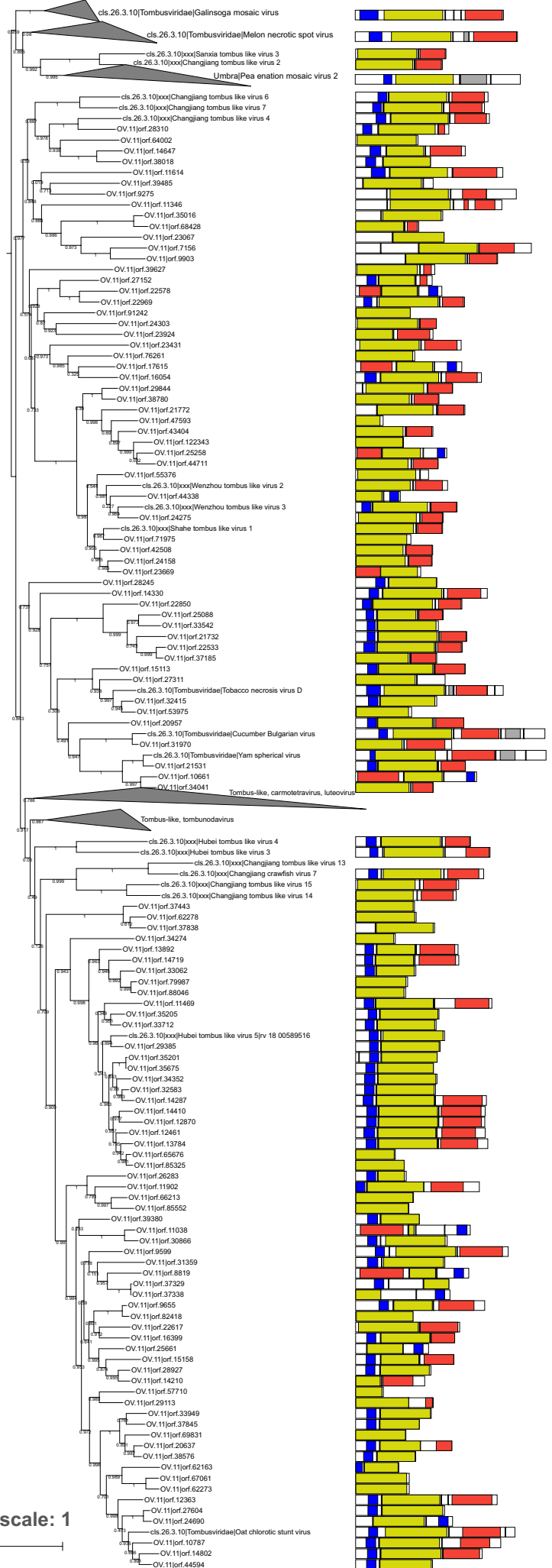
Ov11

Dataset legend

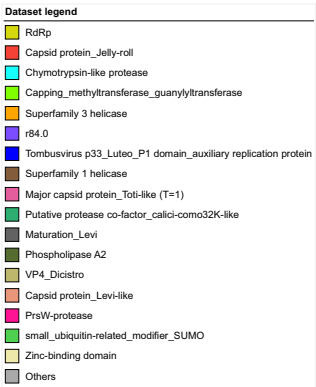
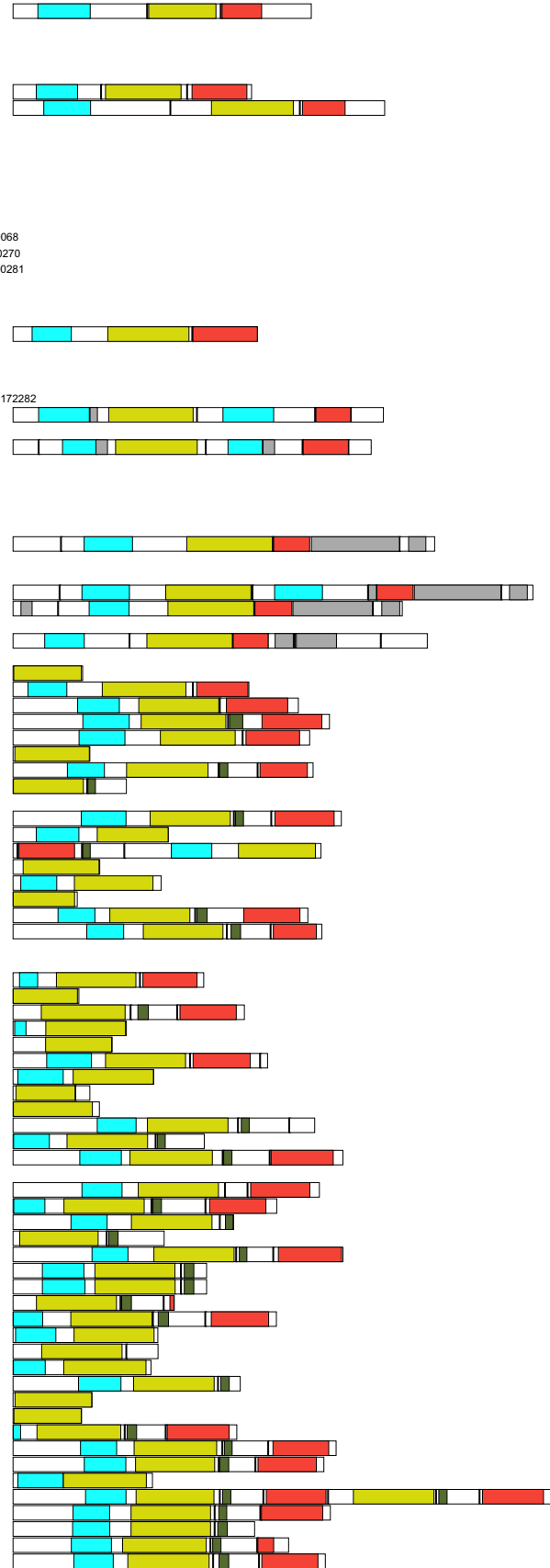
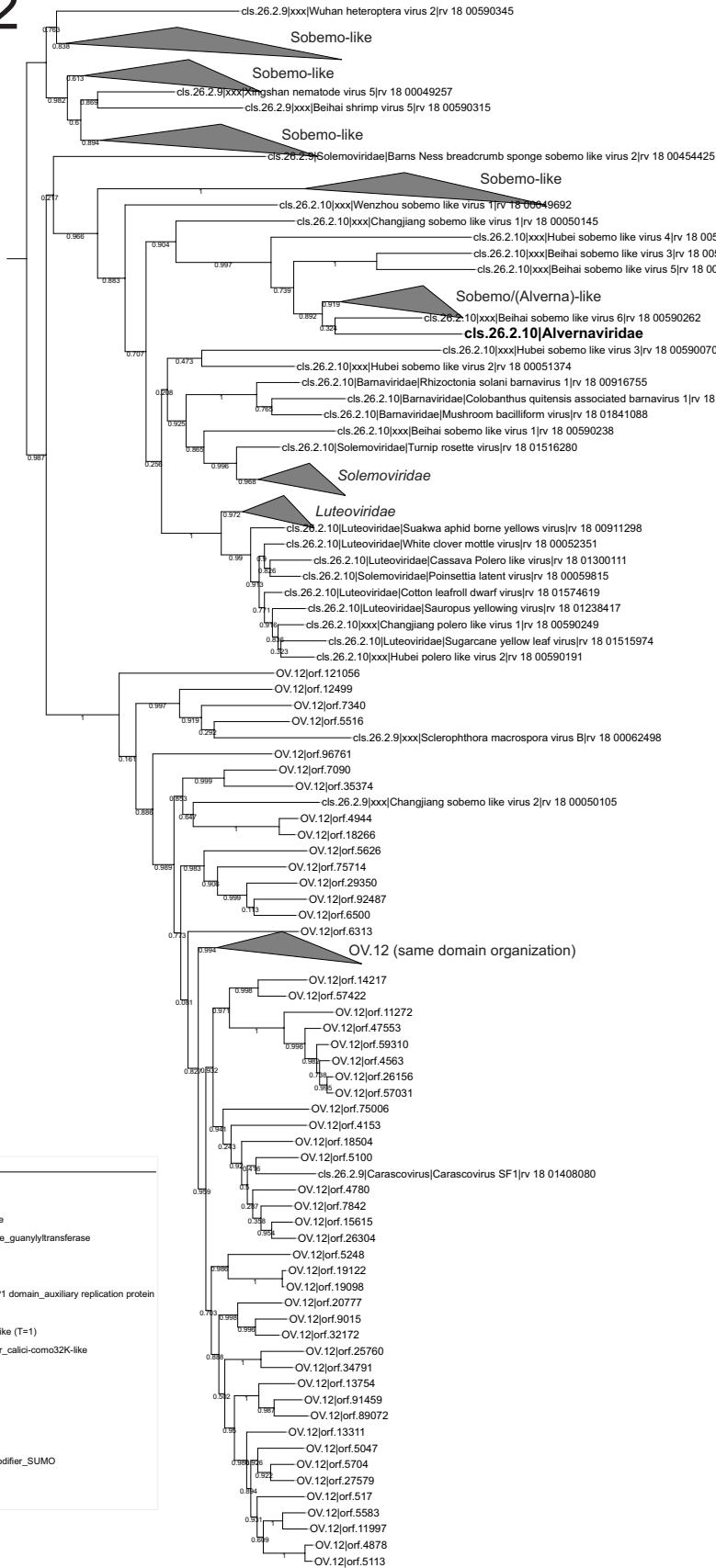
- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Phospholipase A2
- Zinc-binding domain
- Others

Tree scale: 1

Tree scale: 1



Ov12

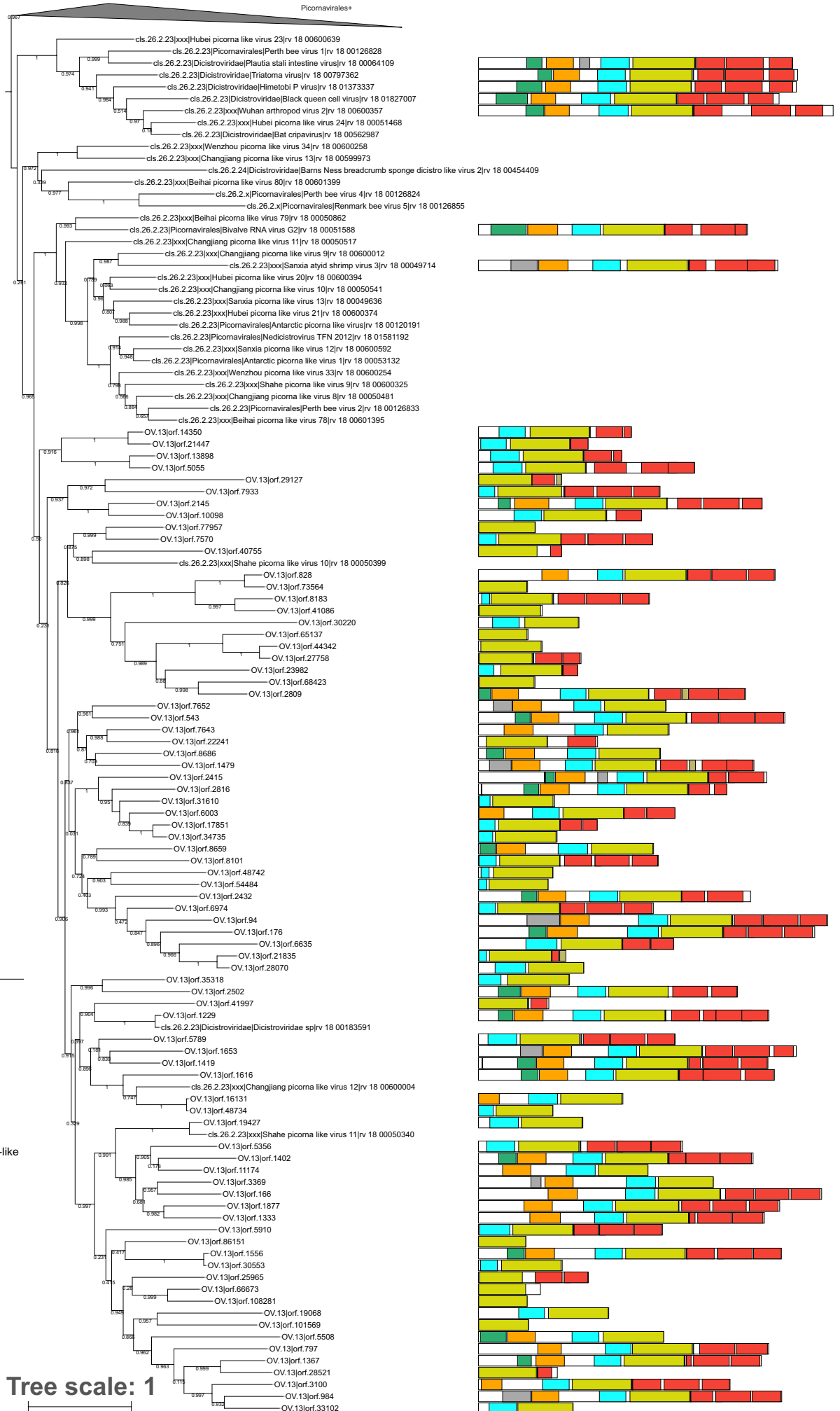


Tree scale: 1

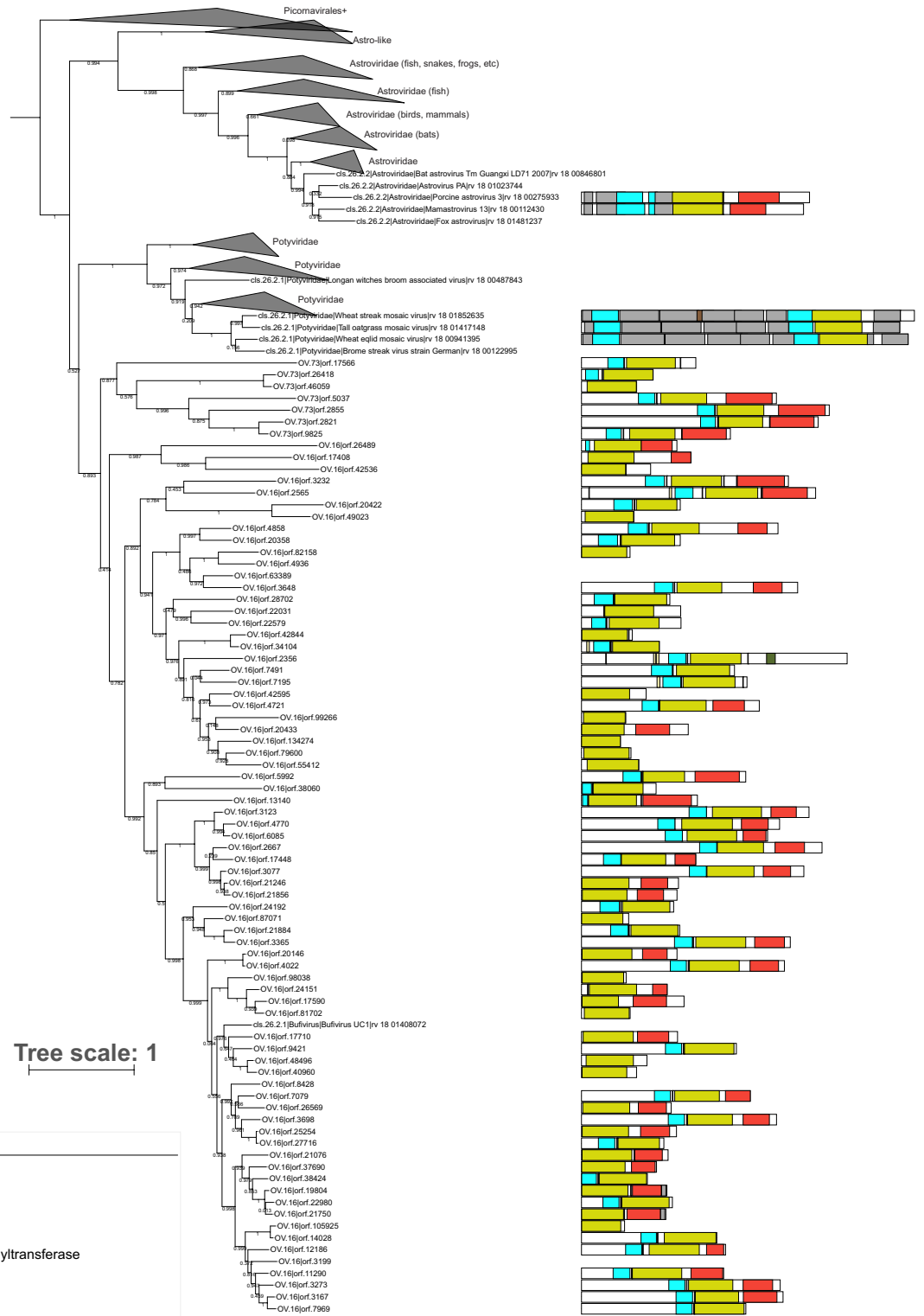
Ov13

Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Superfamily 3 helicase
- r84.0
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- Zinc-binding domain
- Others

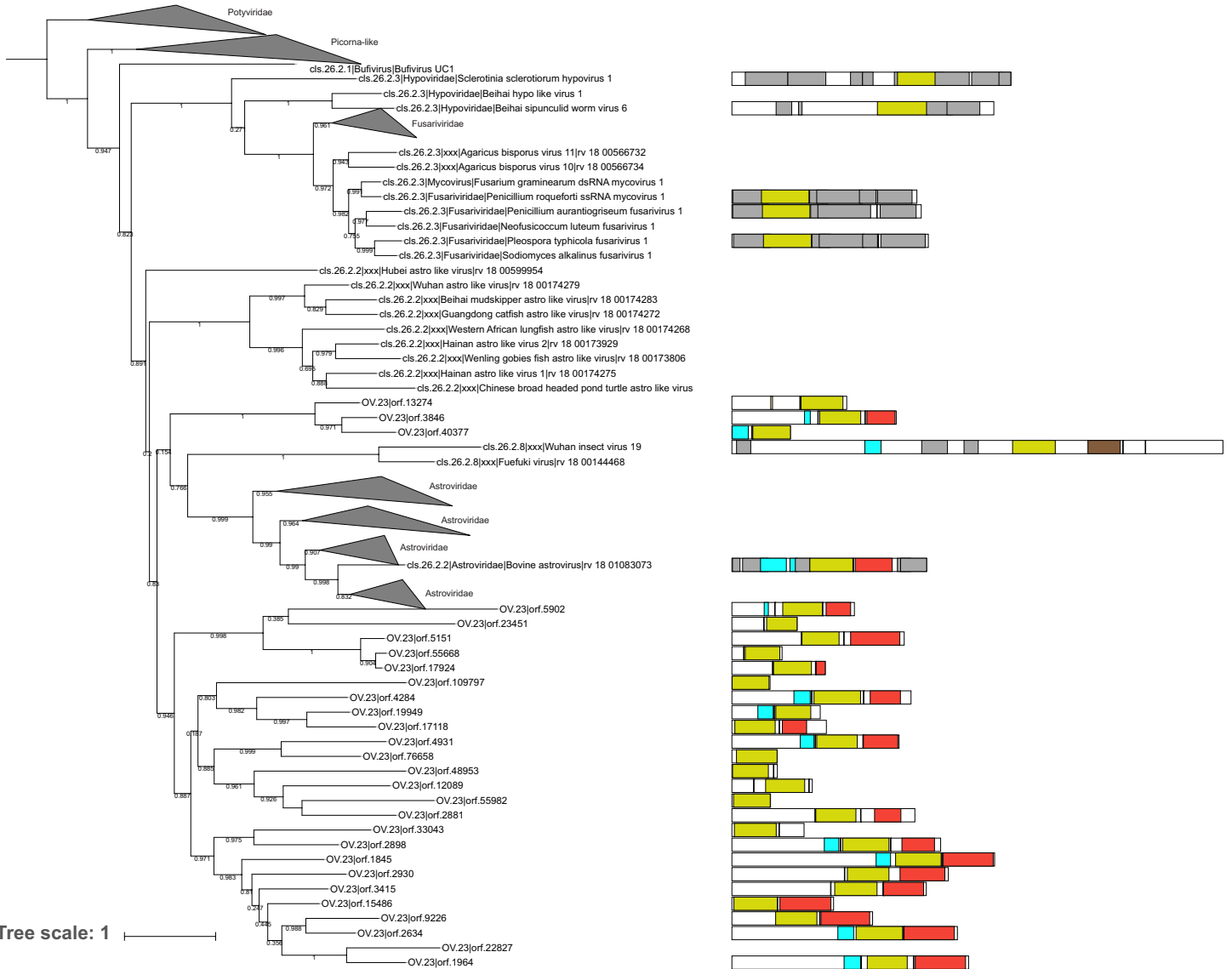


Ov16



- Dataset legend**
- RdRp
 - Capsid protein_Jelly-roll
 - Chymotrypsin-like protease
 - Capping_methyltransferase_guanylyltransferase
 - Superfamily 3 helicase
 - r84.0
 - Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
 - Superfamily 1 helicase
 - Major capsid protein_Toti-like (T=1)
 - Putative protease co_factor_calici-como32K-like
 - Maturation_Levi
 - Phospholipase A2
 - VP4_Dicistro
 - Capsid protein_Levi-like
 - PrsW-protease
 - small_ubiquitin-related_modifier_SUMO
 - Zinc-binding domain
 - Others

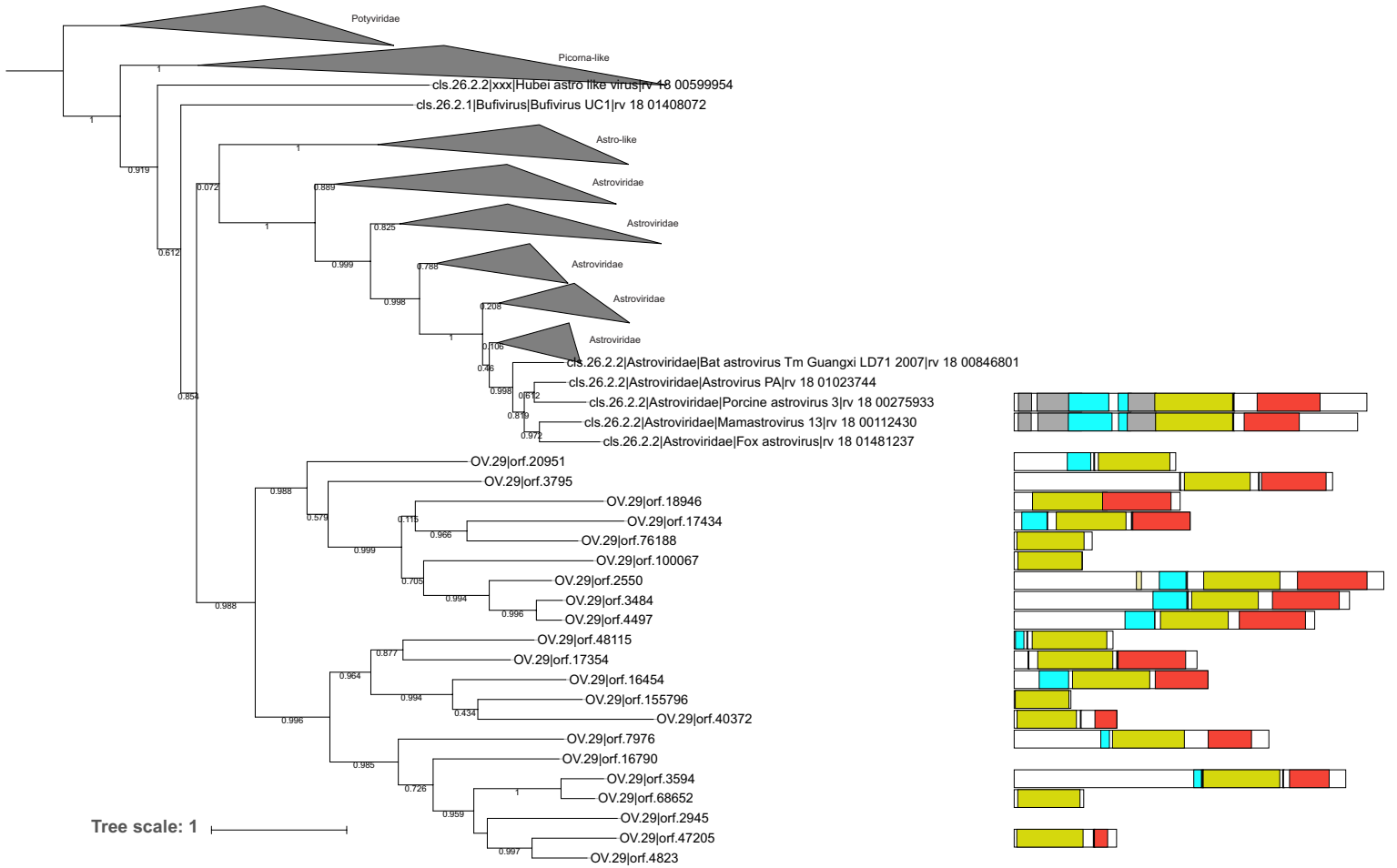
Ov23



Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

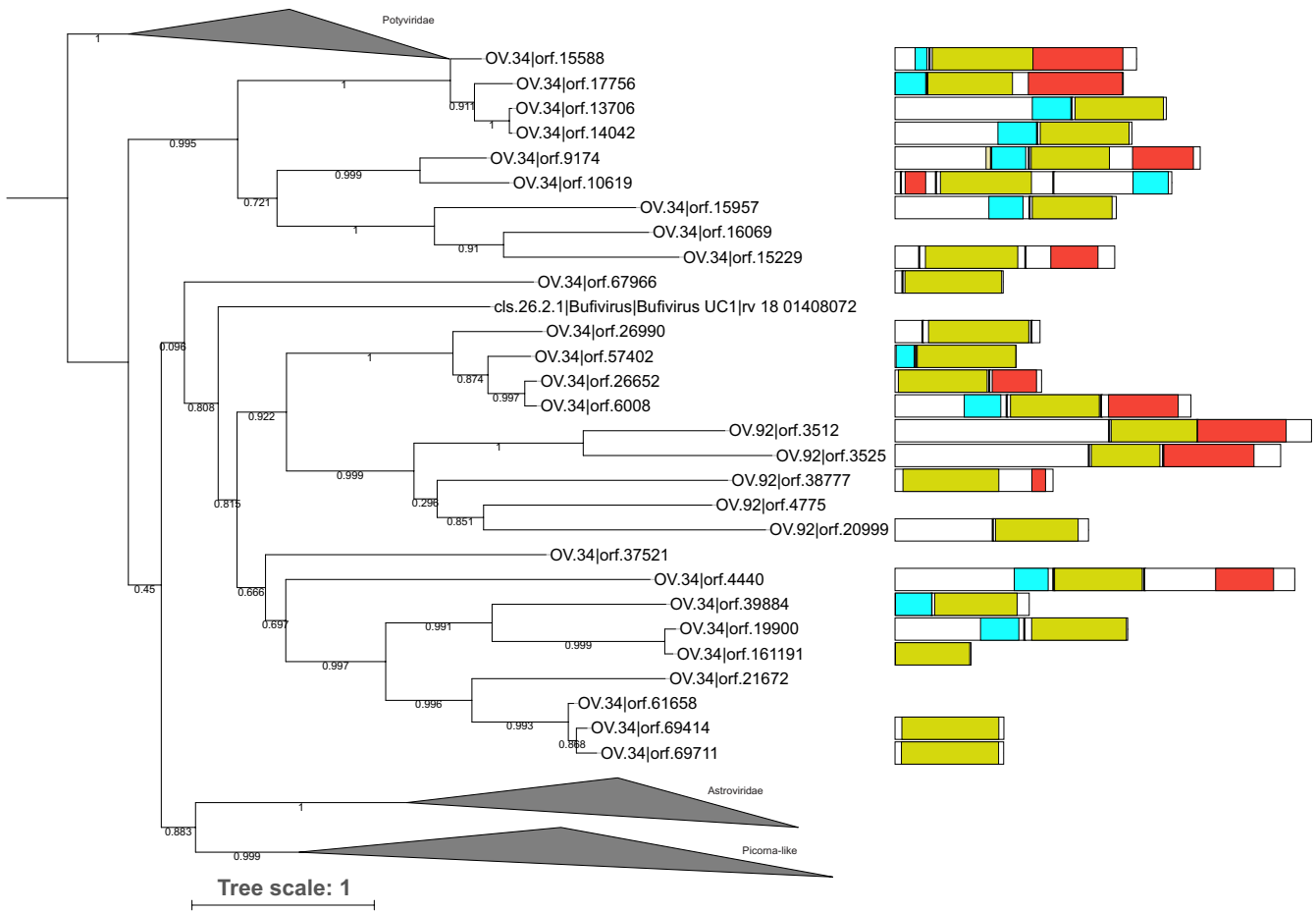
Ov29



Dataset legend

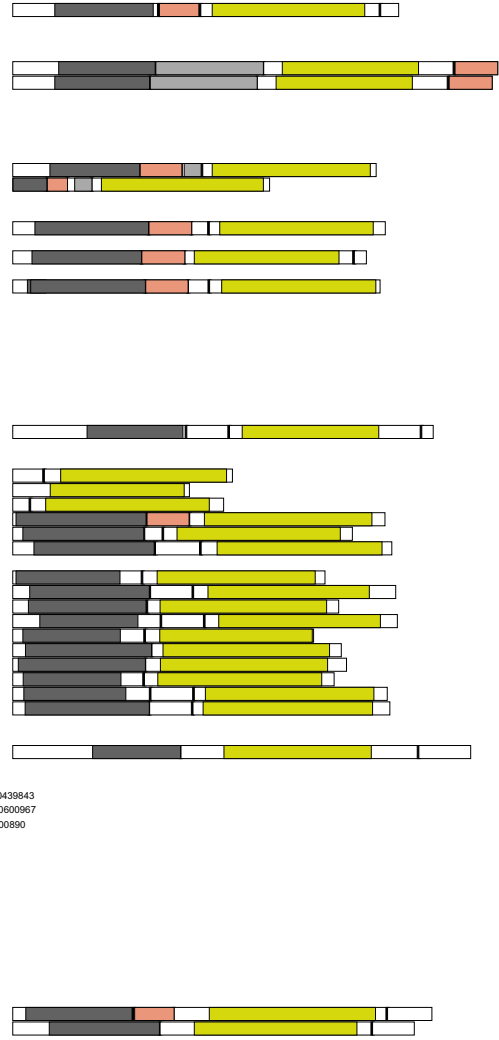
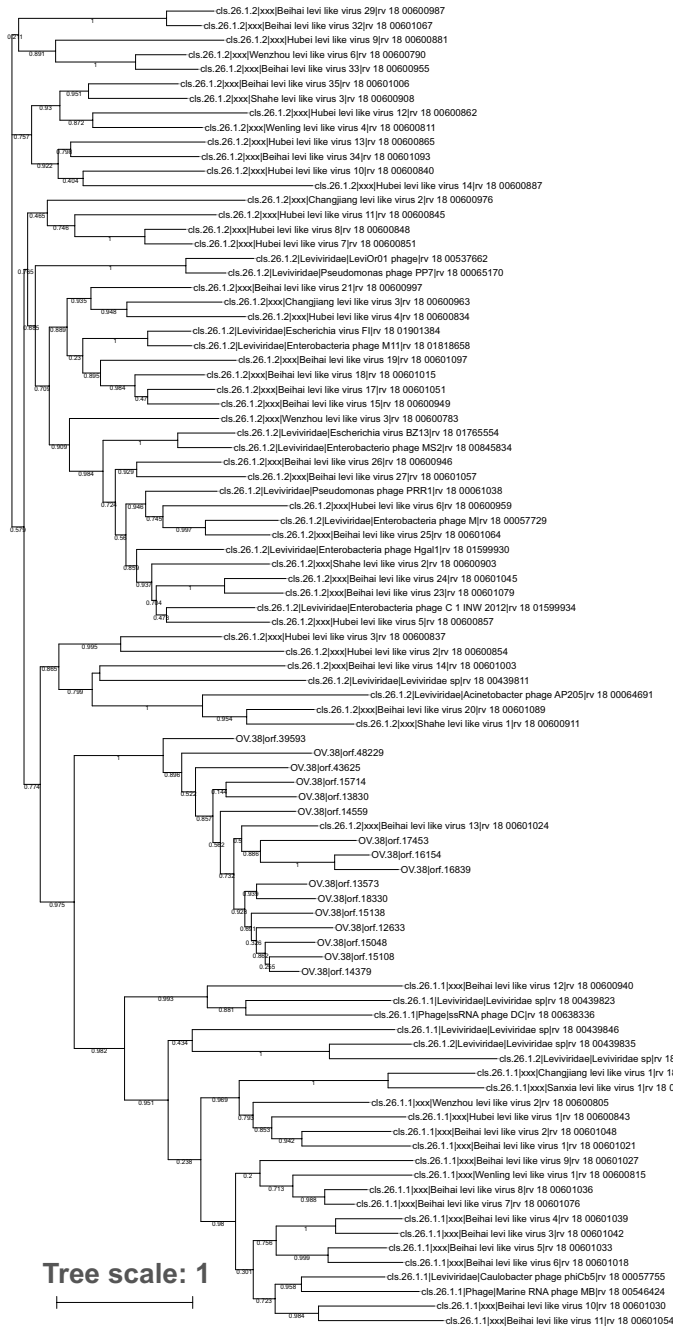
- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

Ov34



Dataset legend	
Yellow	RdRp
Red	Capsid protein_jelly-roll
Cyan	Chymotrypsin-like protease
Green	Capping_methyltransferase_guanylyltransferase
Orange	Superfamily 3 helicase
Purple	r84.0
Blue	Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
Brown	Superfamily 1 helicase
Pink	Major capsid protein_Tob-like (T=1)
Light Green	Putative protease co-factor_calici-corn32K-like
Dark Grey	Maturation_Levi
Dark Green	Phospholipase A2
Light Blue	VP4_Dicistro
Light Yellow	Capsid protein_Levi-like
Pink	PrnW-protease
Light Green	small_ubiquitin-related_modifier_SUMO
Light Yellow	Zinc-binding domain
Dark Grey	Others

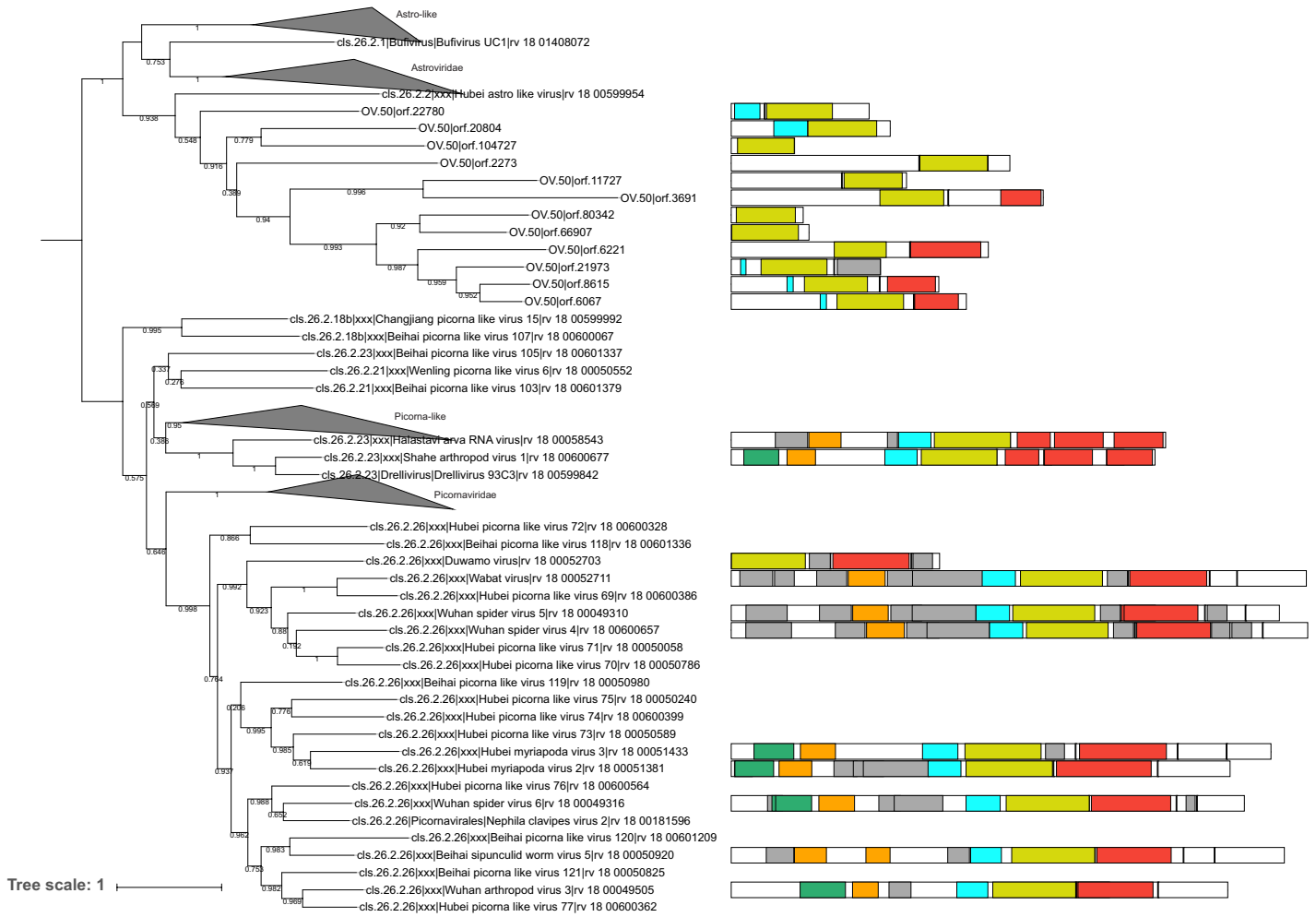
Ov38



Dataset legend

- RdRp
- Maturation_Levi
- Capsid protein_Levi-like

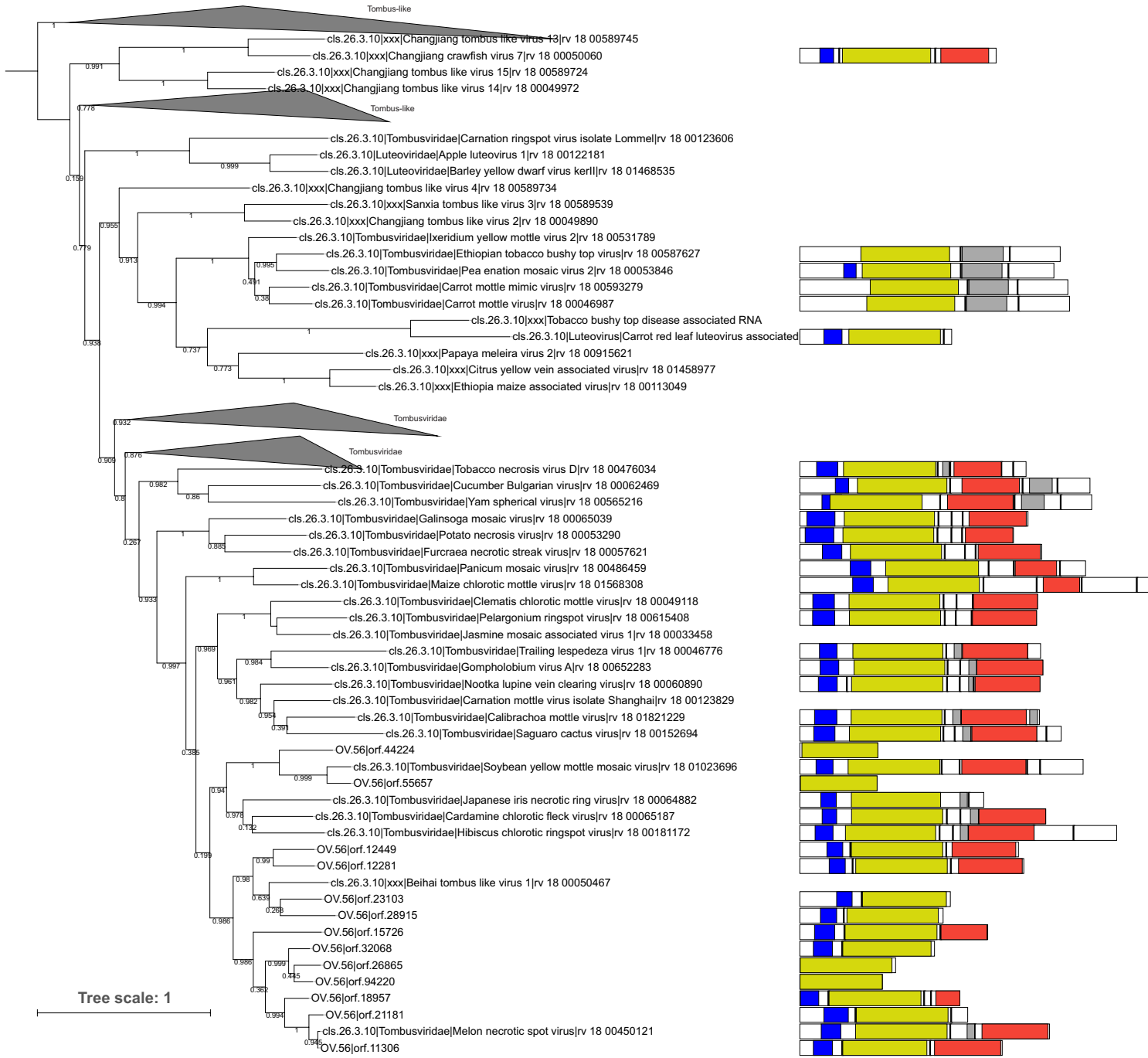
Ov50



Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

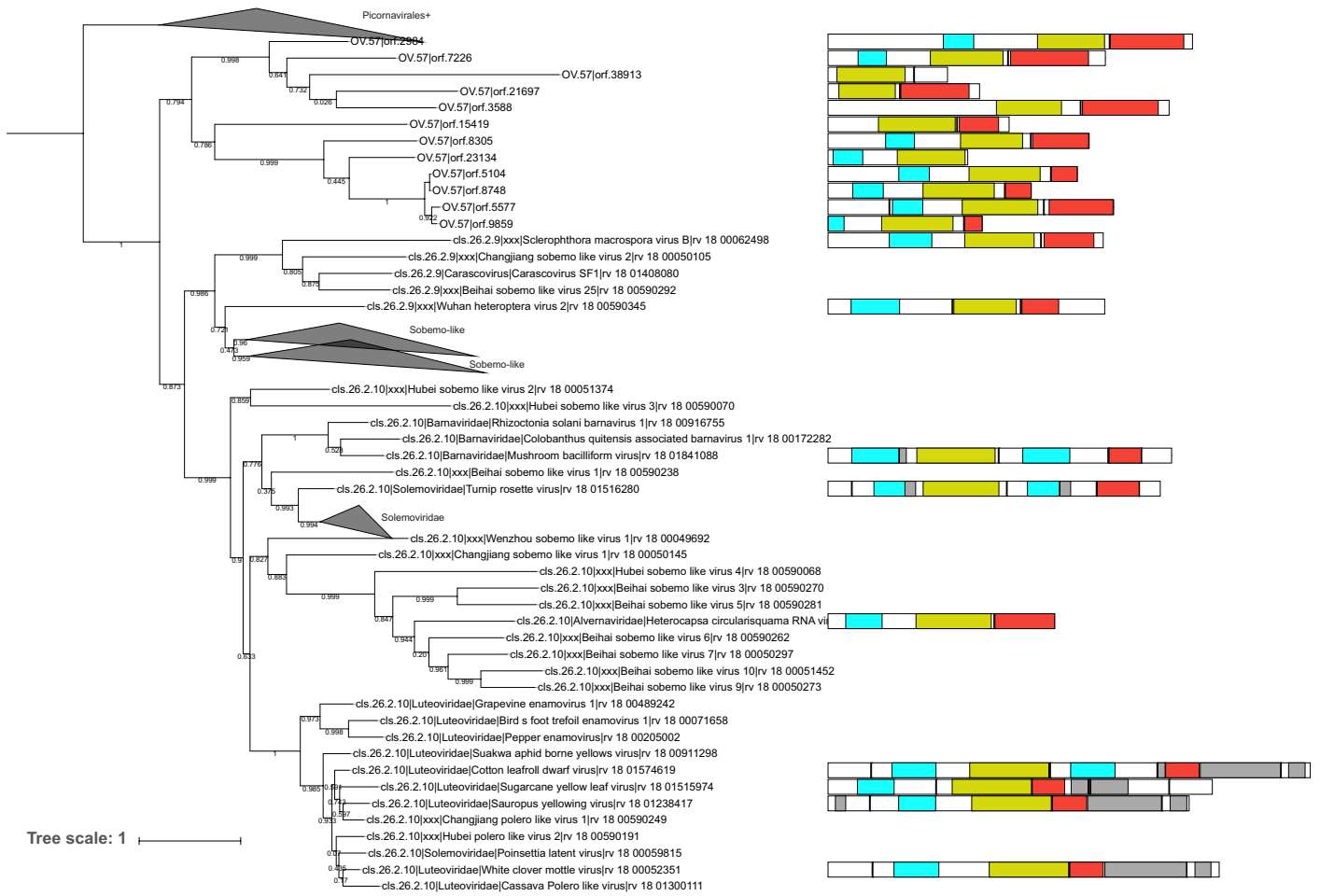
Ov56



Dataset legend

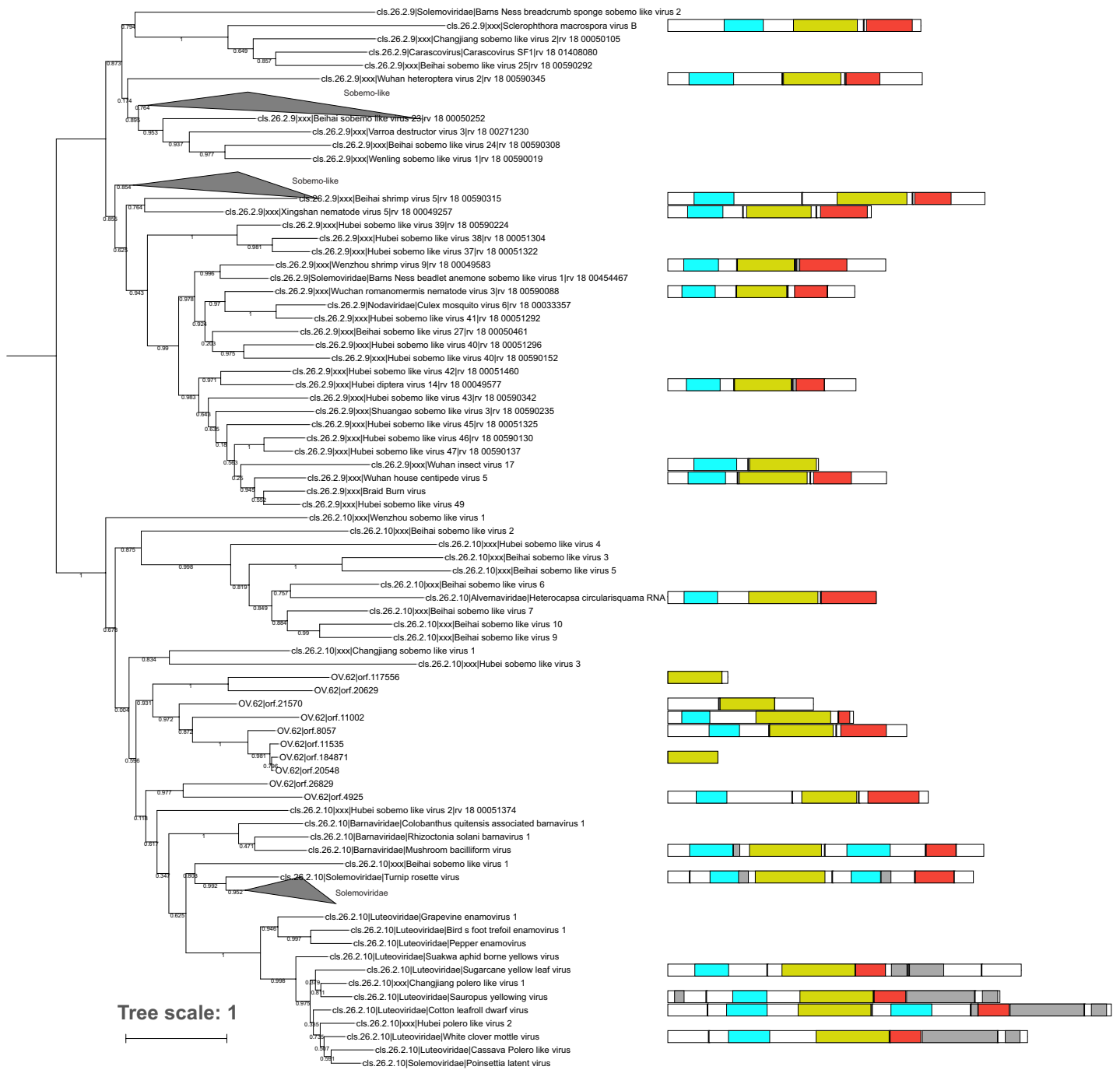
- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanlyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

Ov57



Dataset legend

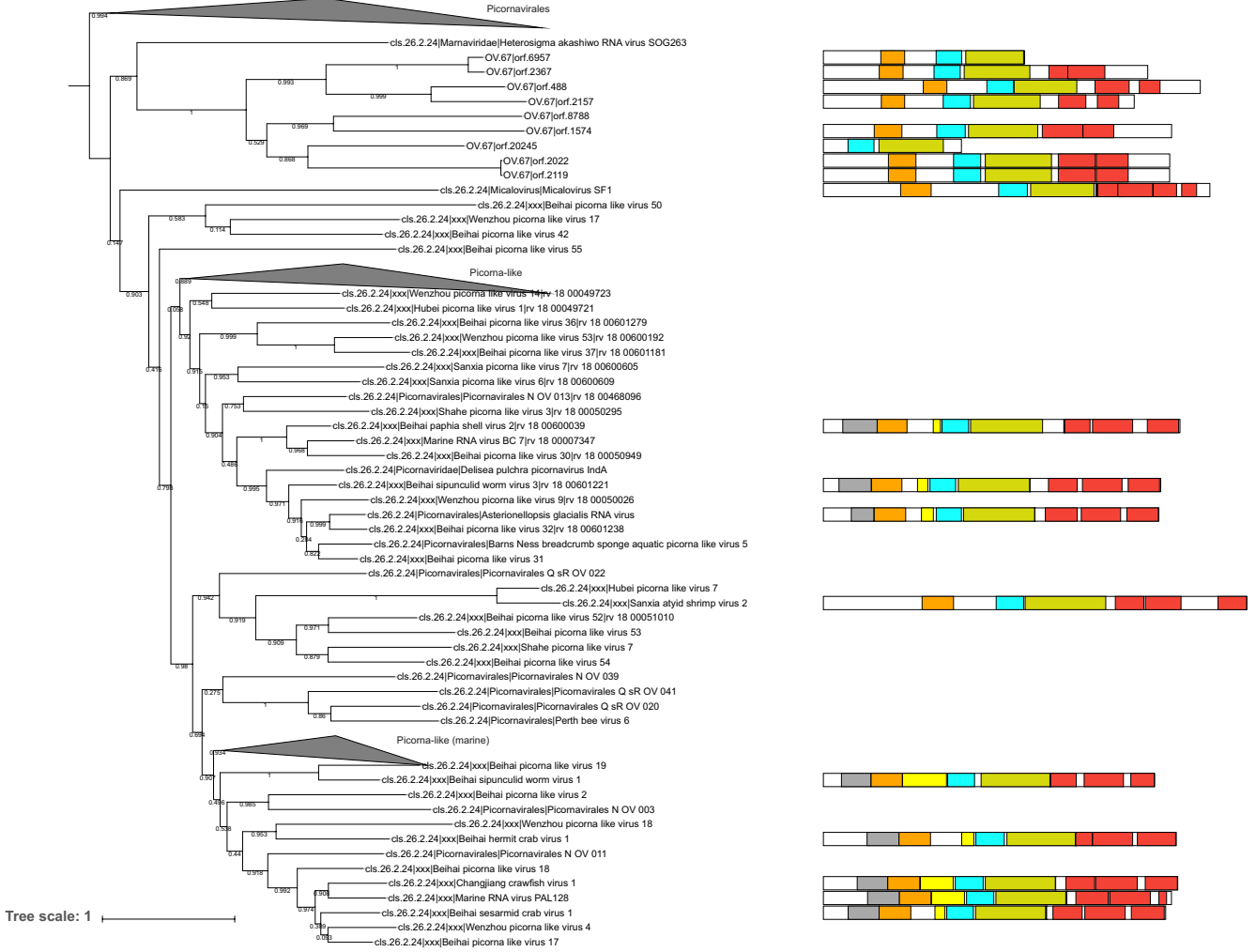
- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others



Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

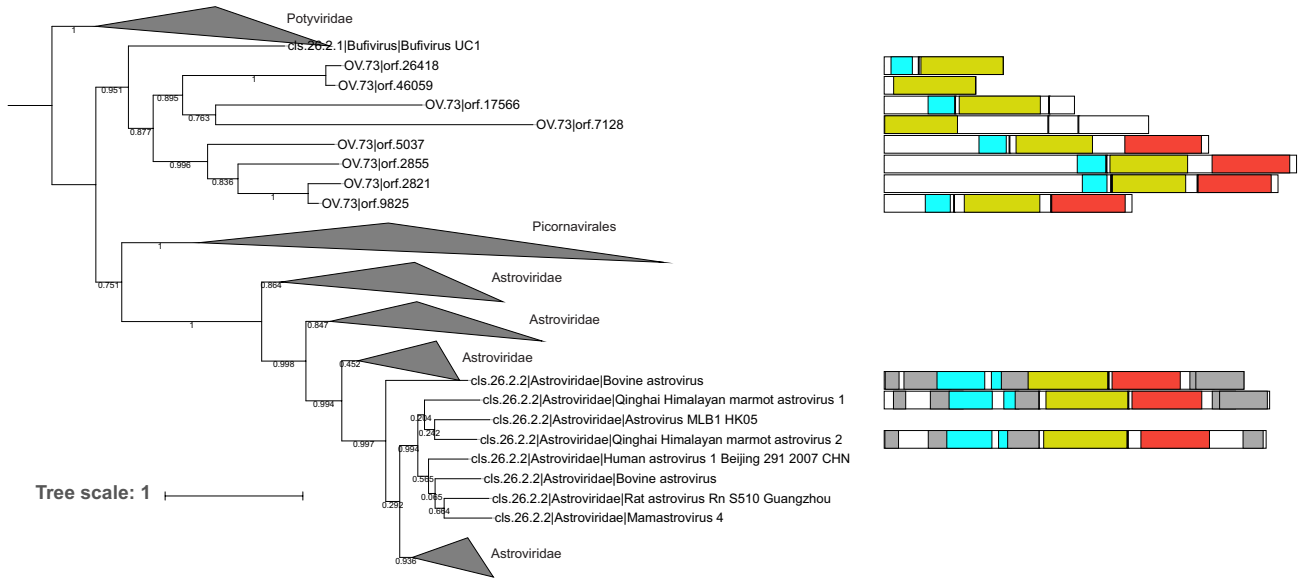
Ov67



Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

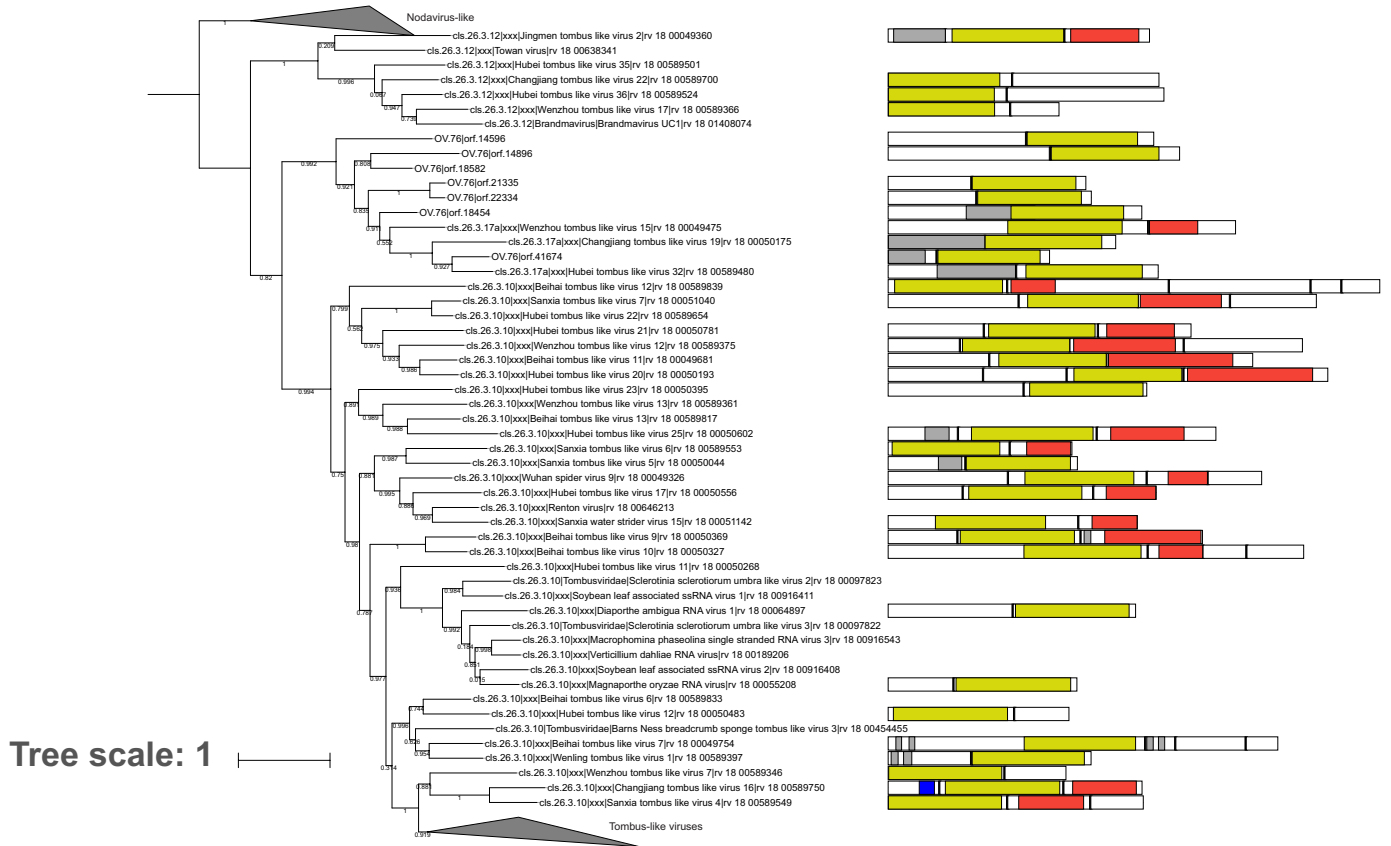
Ov73



Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-corno32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

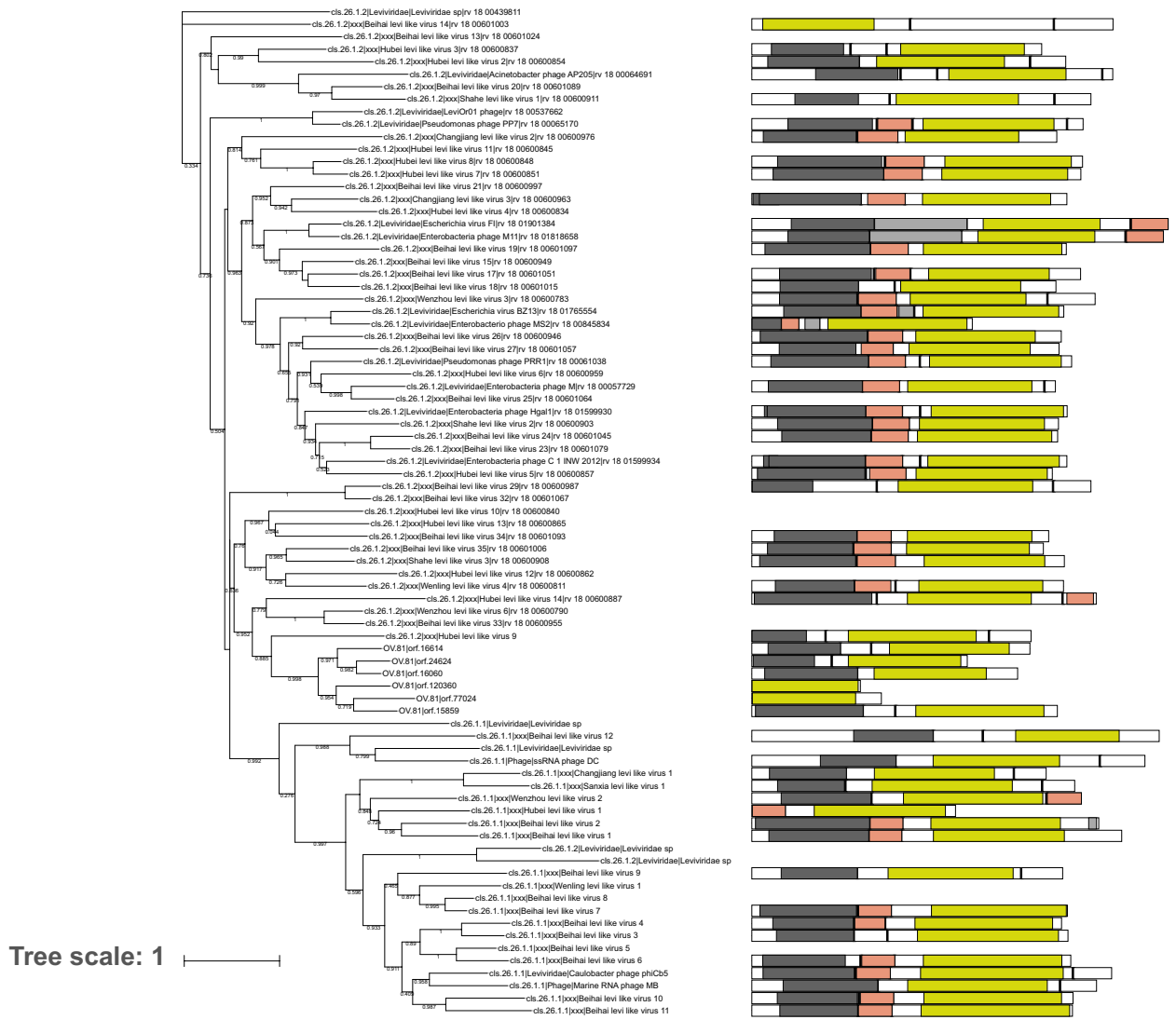
Ov76



Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- rB4.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

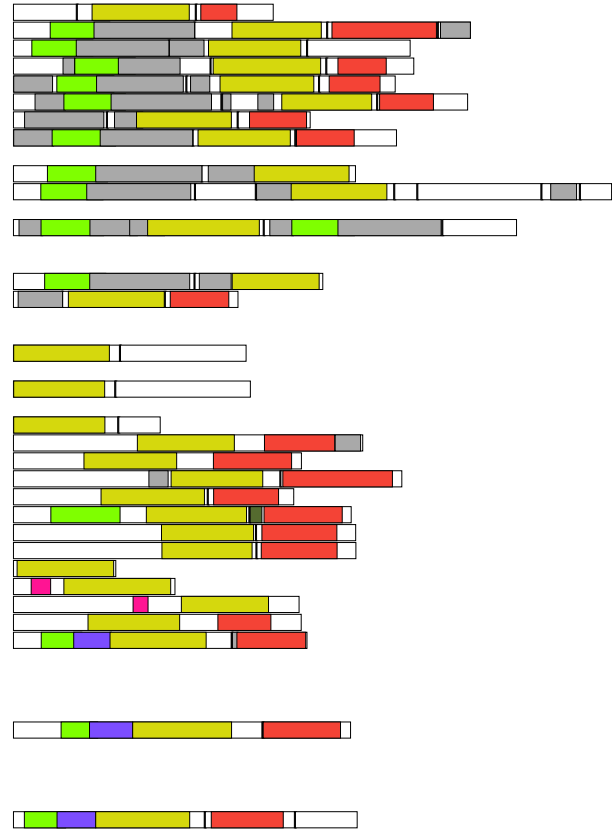
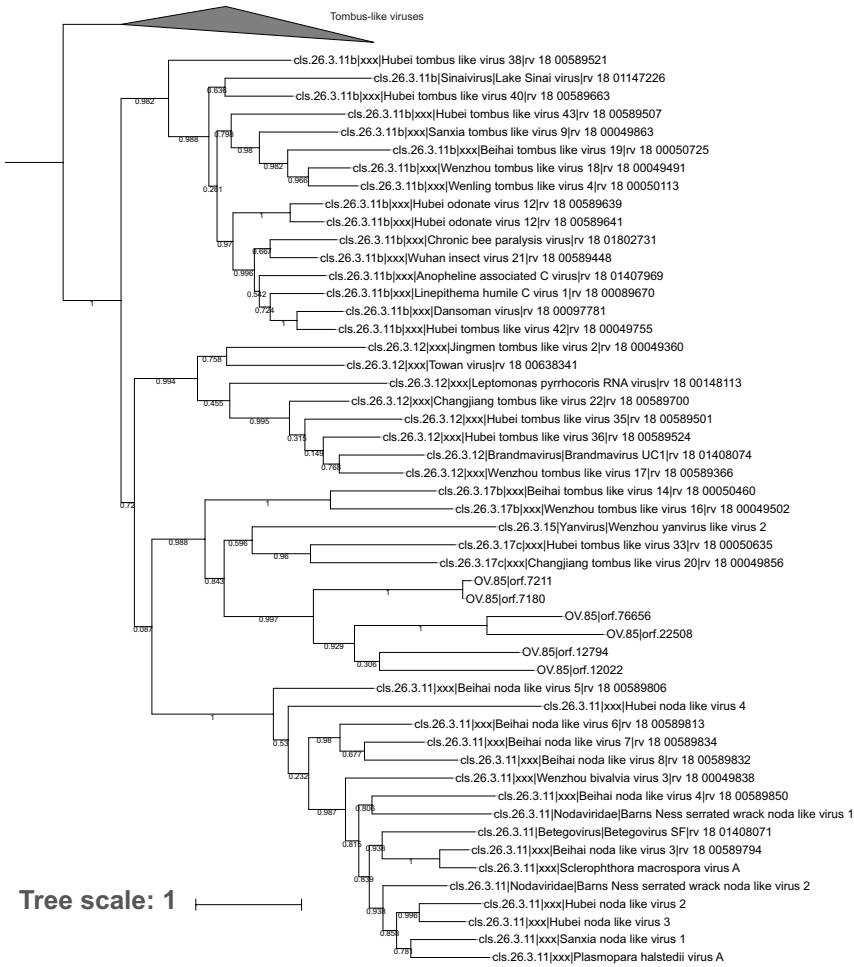
Ov81



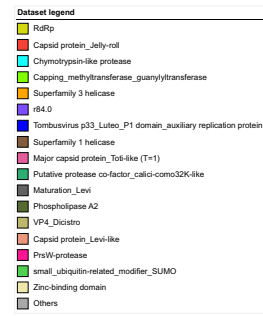
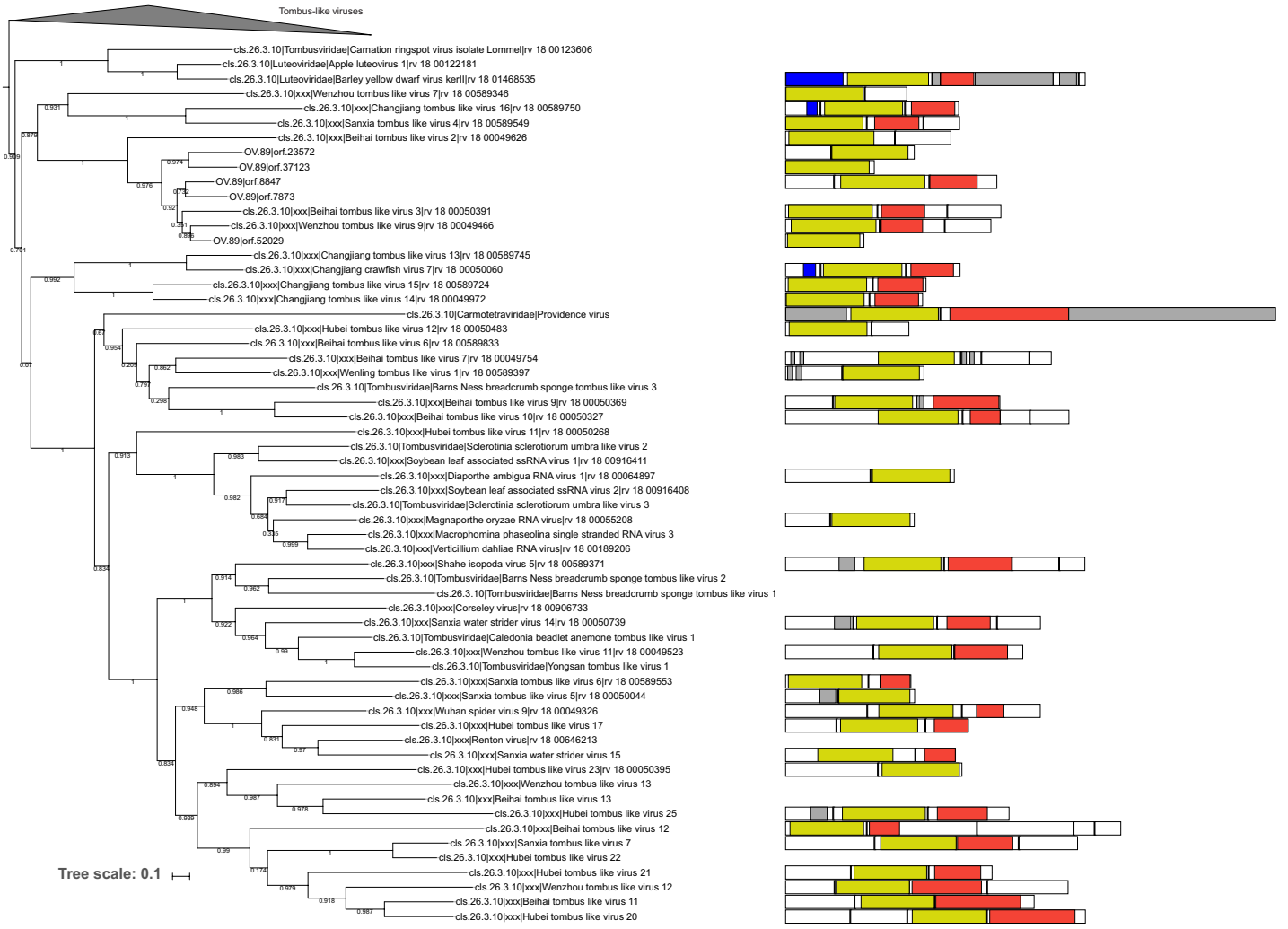
Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

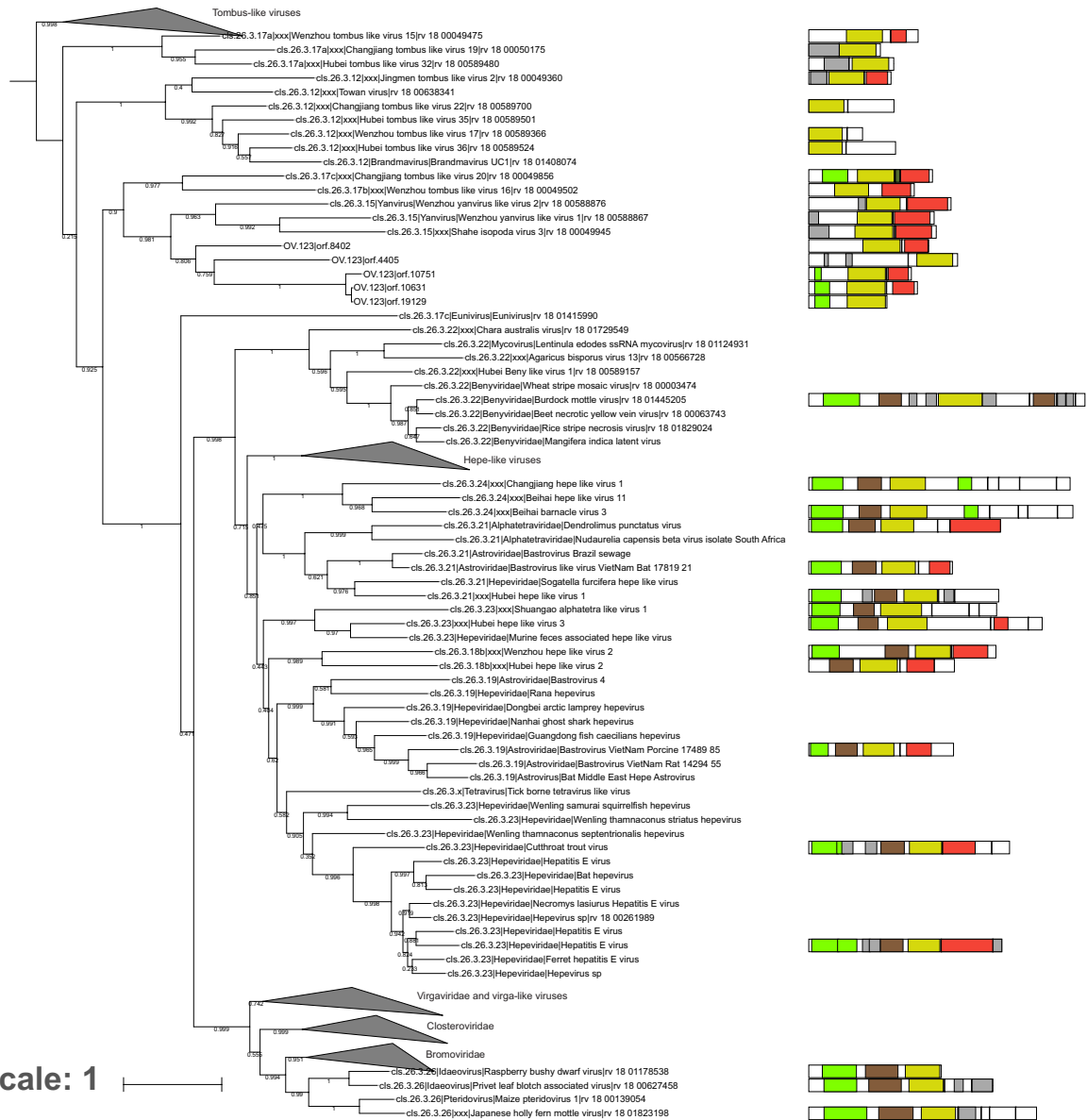
Ov85



Ov89



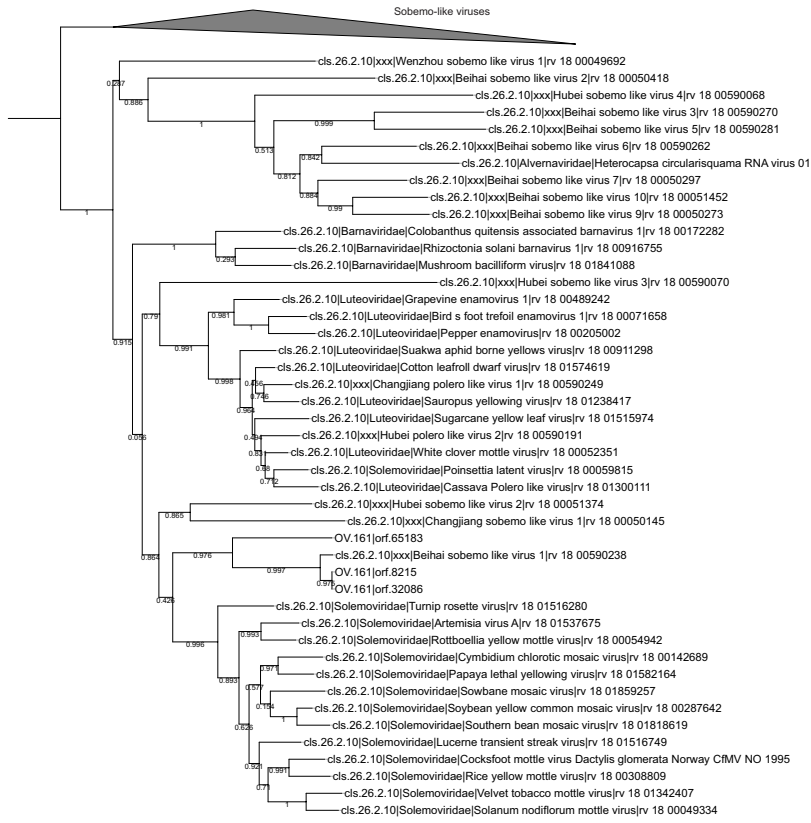
Ov123



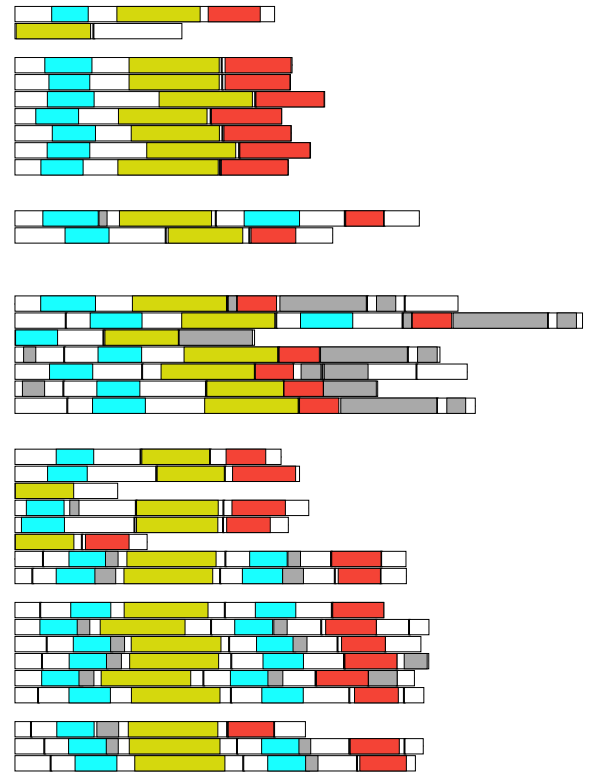
Dataset legend

- RdRp
- Capsid protein_Jelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r84.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_Toti-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

Ov161



Tree scale: 1



Dataset legend

- RdRp
- Capsid protein_Ljelly-roll
- Chymotrypsin-like protease
- Capping_methyltransferase_guanylyltransferase
- Superfamily 3 helicase
- r64.0
- Tombusvirus p33_Luteo_P1 domain_auxiliary replication protein
- Superfamily 1 helicase
- Major capsid protein_TotI-like (T=1)
- Putative protease co-factor_calici-como32K-like
- Maturation_Levi
- Phospholipase A2
- VP4_Dicistro
- Capsid protein_Levi-like
- PrsW-protease
- small_ubiquitin-related_modifier_SUMO
- Zinc-binding domain
- Others

Ov201

