



# Phagehunting Program

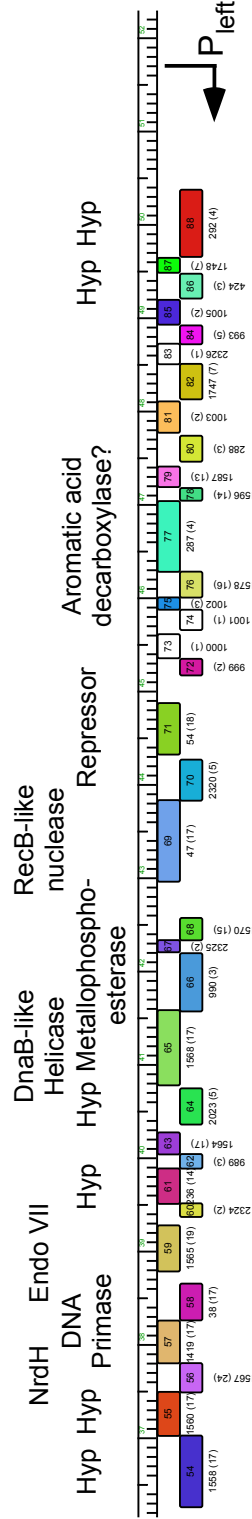
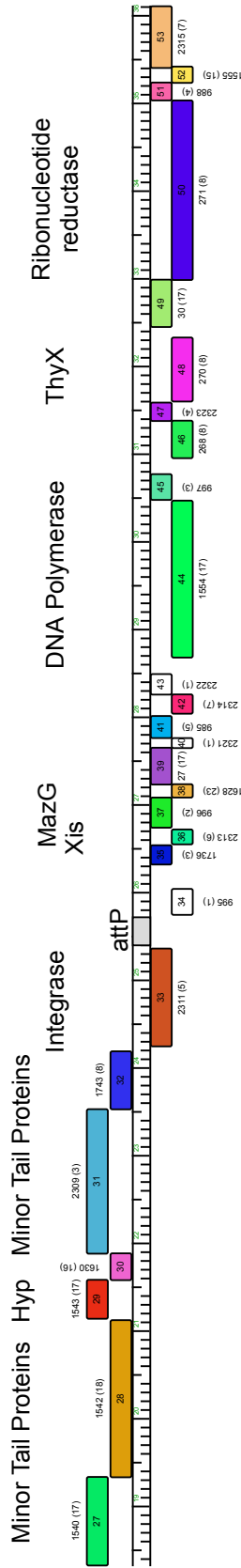
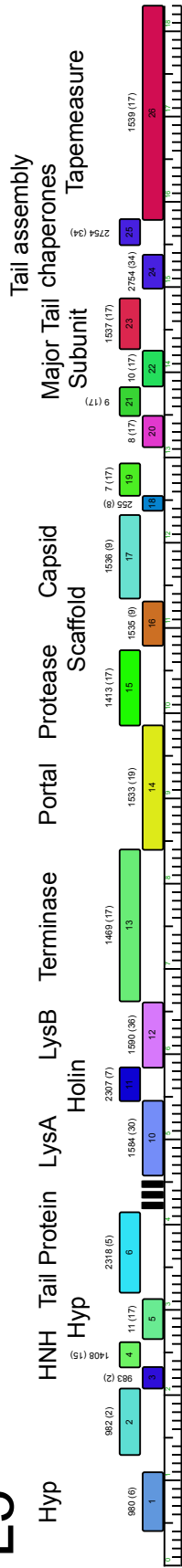


## Genome Maps

The maps included here are part of a review: The secret lives of mycobacteriophages  
Hatfull, G. F. (2012). *Advances in Virus Research* **82**: 179-288.

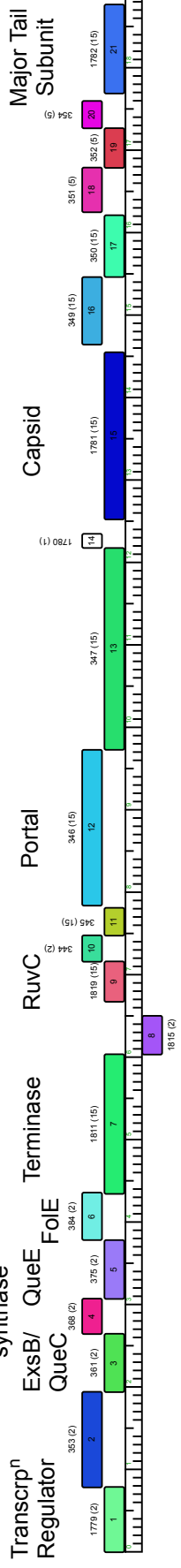
Phage Name	Member of Cluster
L5	A
Rosebush	B
Bxz1	C
PBI1	D
Cjw1	E
Fruitloop	F
BPs	G
Barnyard	H
Che9c	I
Omega	J
TM4	K
LeBron	L
Corndog	O
Giles	Q
Wildcat	Singleton

# L5



# Rosebush

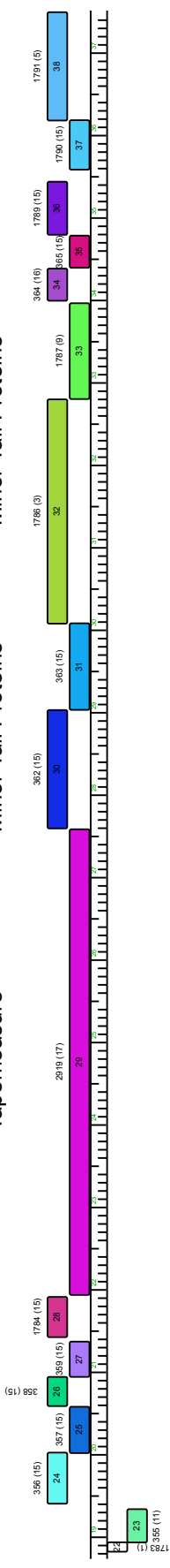
6-pyruvoyl tetrahydropterin  
synthase



Tapemeasure

Minor Tail Proteins

Minor Tail Proteins



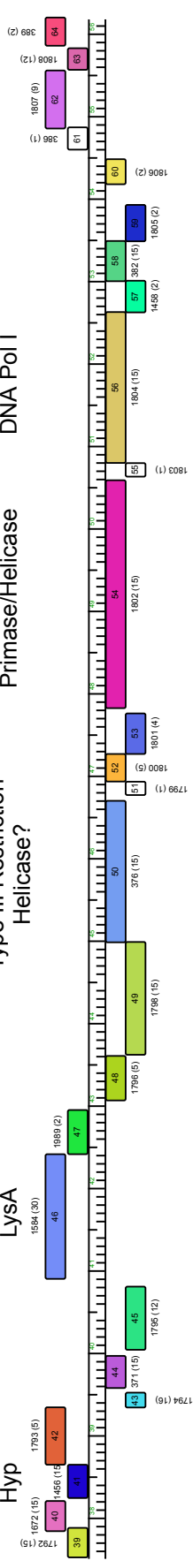
Hyp

LysA

Type III Restriction Helicase?

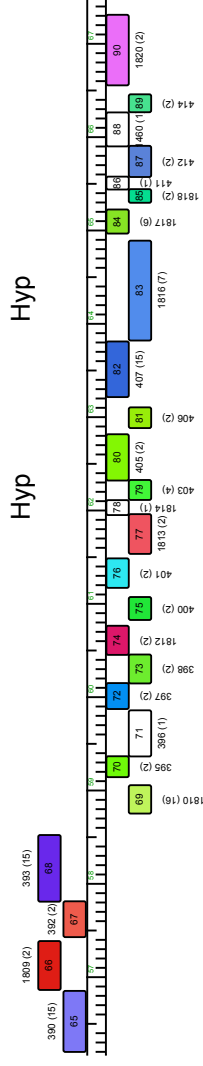
Primase/Helicase

DNA Pol I



Hyp

Hyp

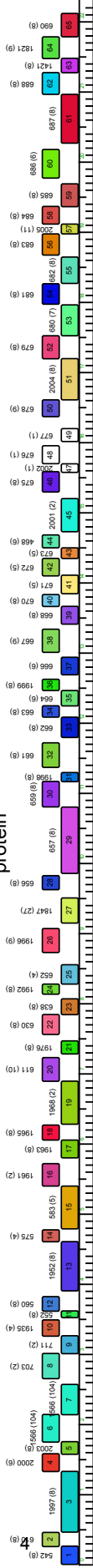


# BxZ1

## NrdC

### Band-7 protein

### Regulator?

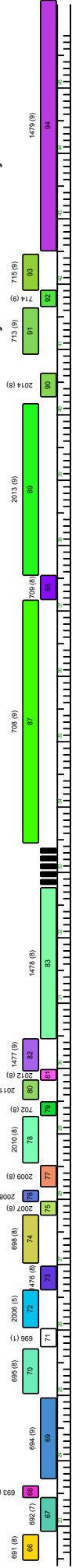


### ParB-like tRNAs

### Portal

### ThyX

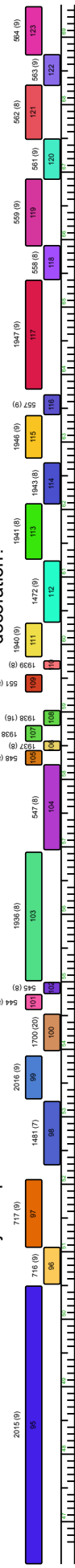
### LysM domain



## Major Capsid

### Head decoration?

### Minor tail protein?

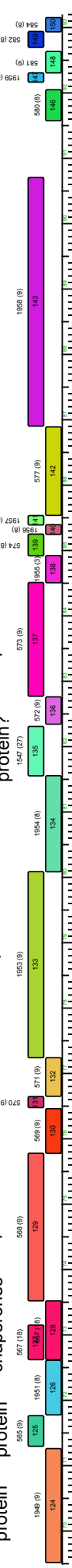


## Tail assembly chaperones

### Minor tail protein?

### Baseplate J? HNH

### Minor tail protein?



## Peptidyl-tRNA hydrolase

### EndoVII Carboxypeptidase

### Terminase

### ArgD

### DnaB-like Helicase

### DNA Primase

### J-domain



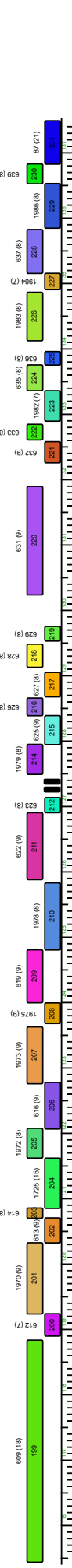
## Pol III alpha

### Rusa

### Ro

### Glycosyl-transferase

### Glycosyl-transferase



### Head decoration?

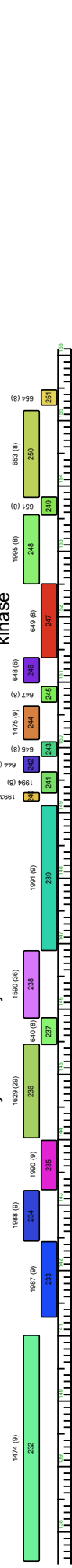
### Holin A

### Lysin B

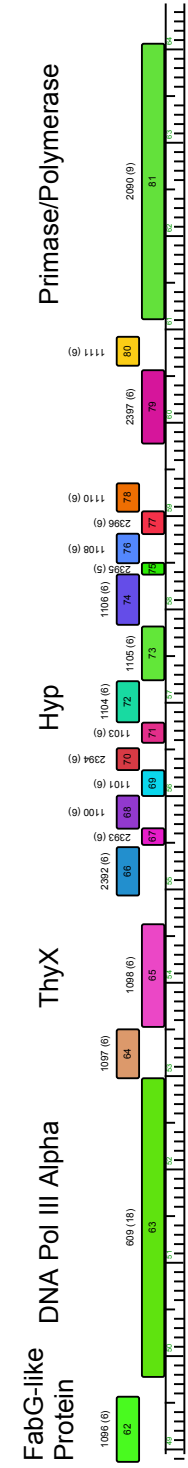
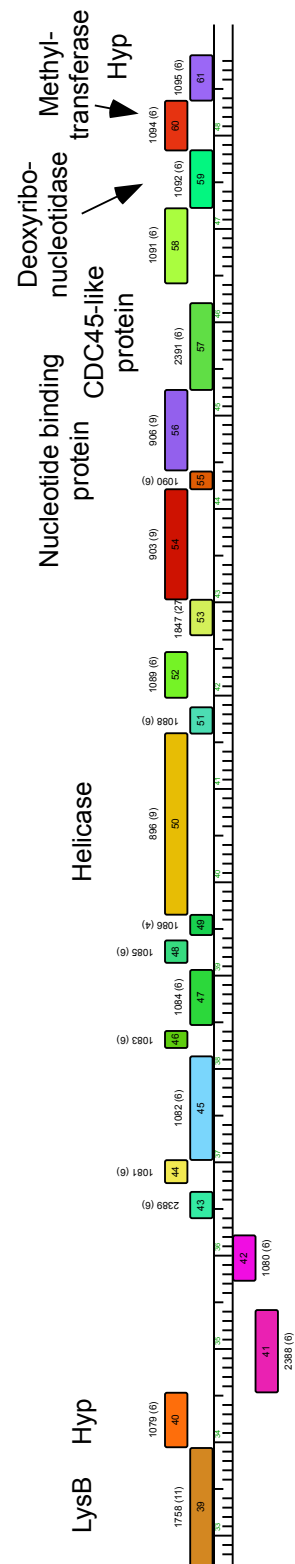
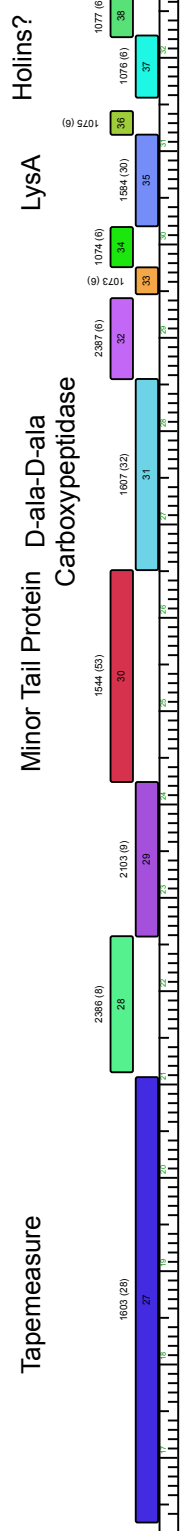
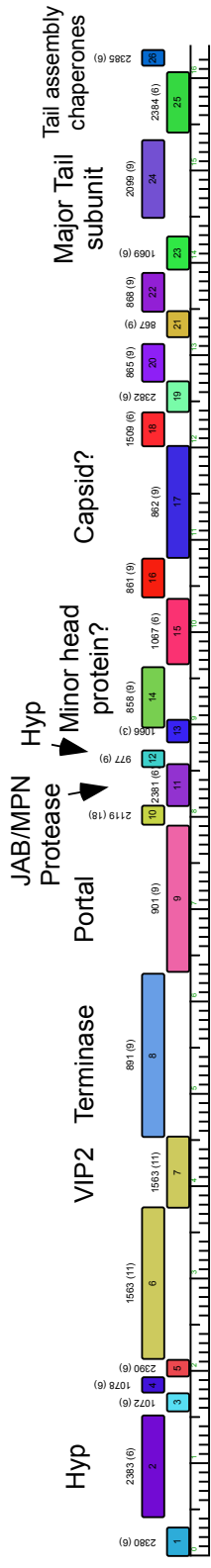
### Ser/Thr-kinase

### PurA

### Head decoration?

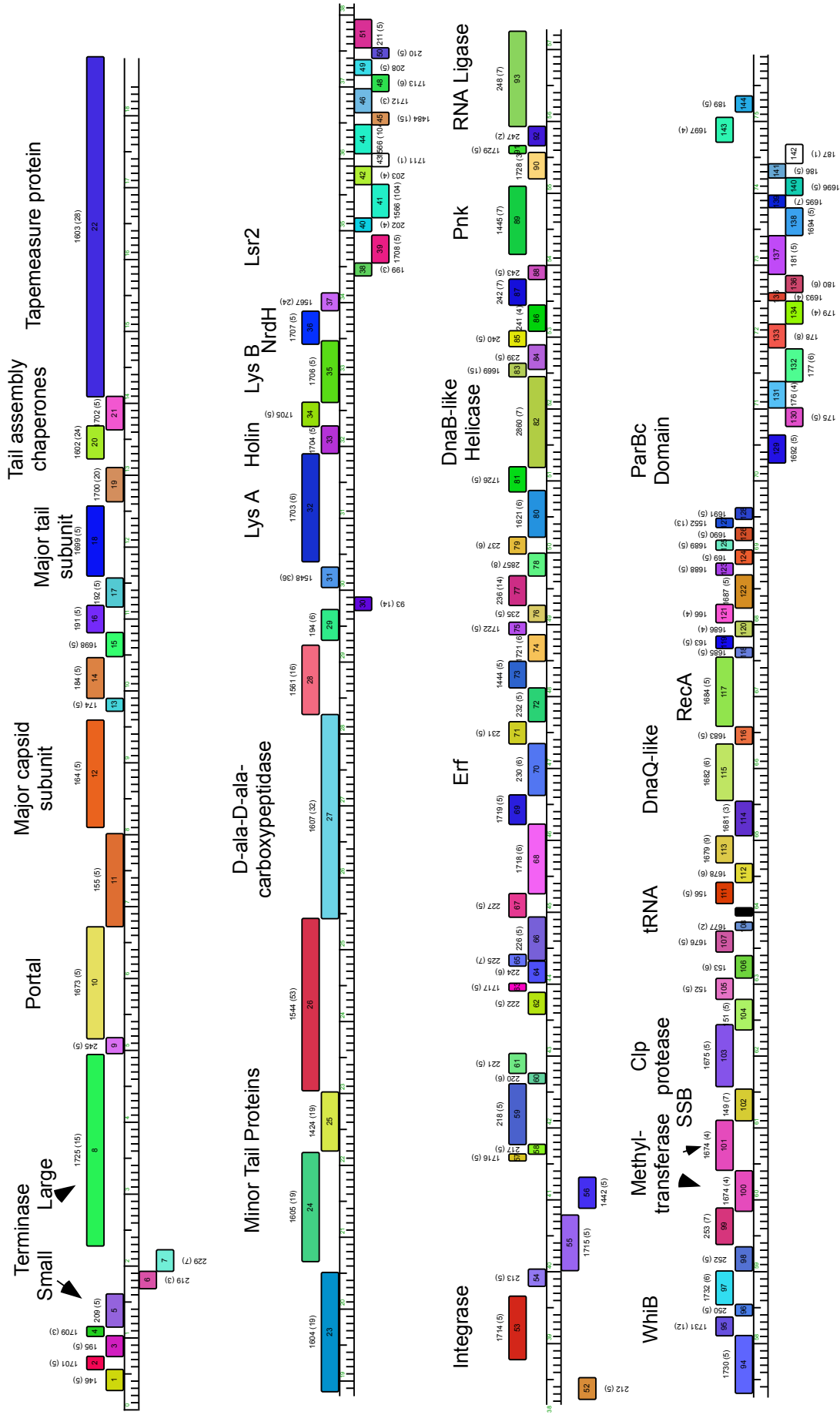


# PBI1

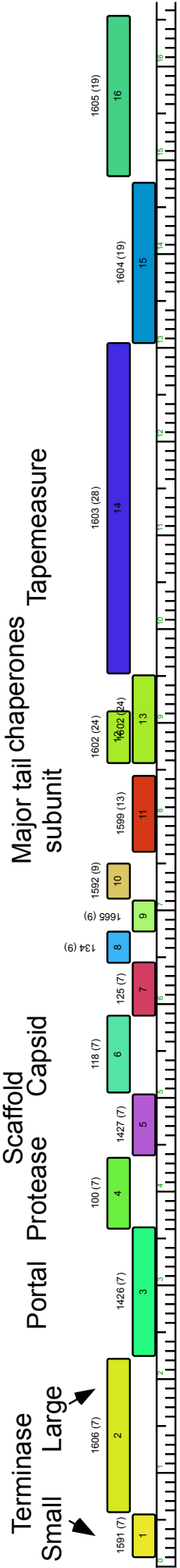


# Cjw1

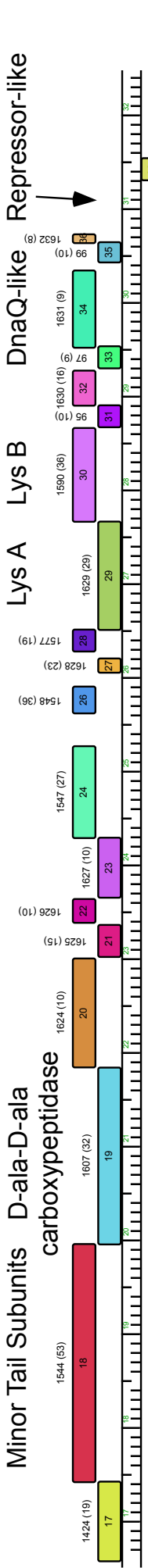
9



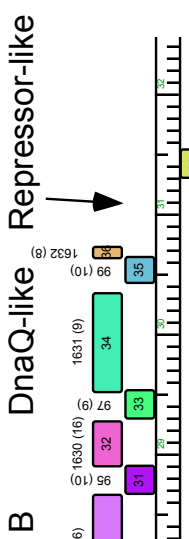
# Fruitloop



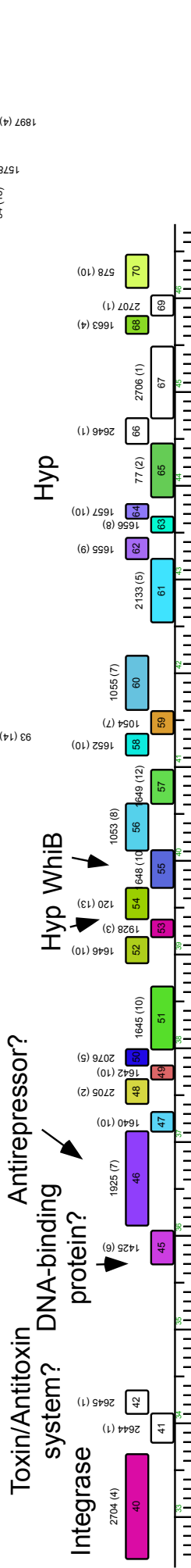
## Minor Tail Subunits



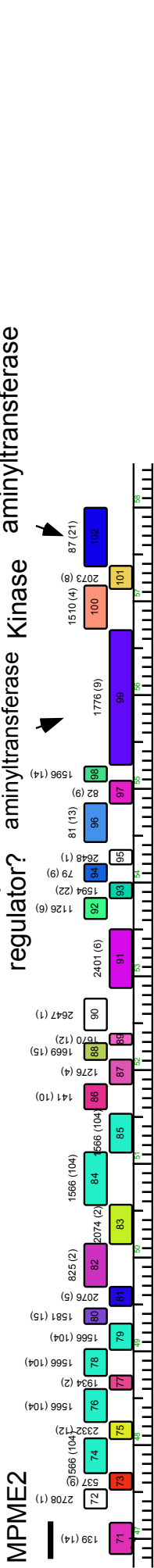
## Holin



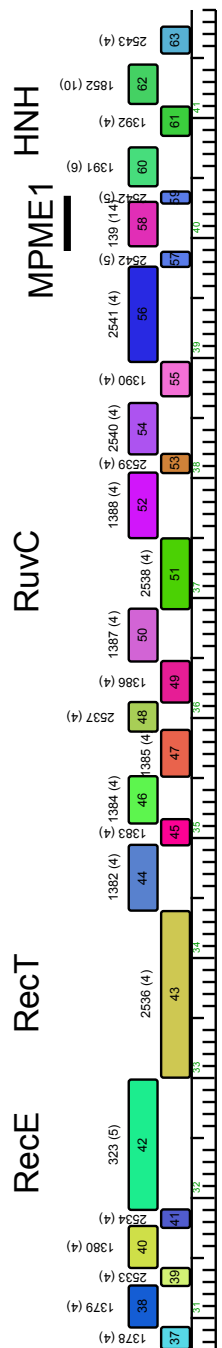
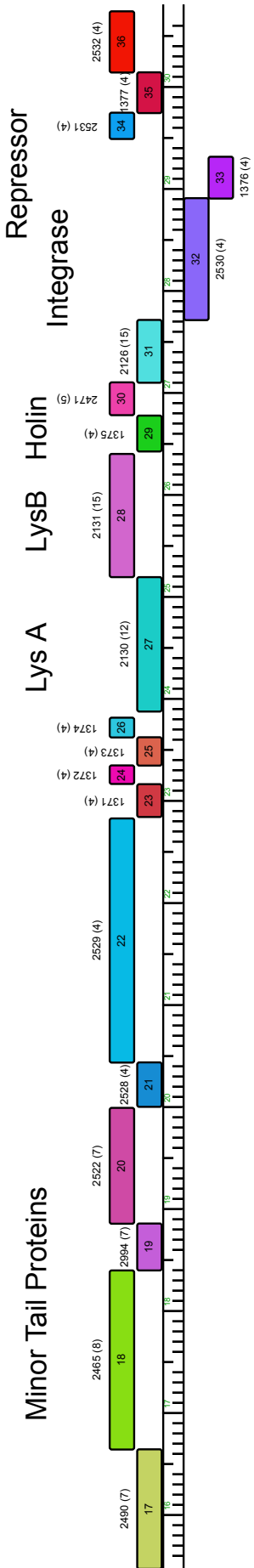
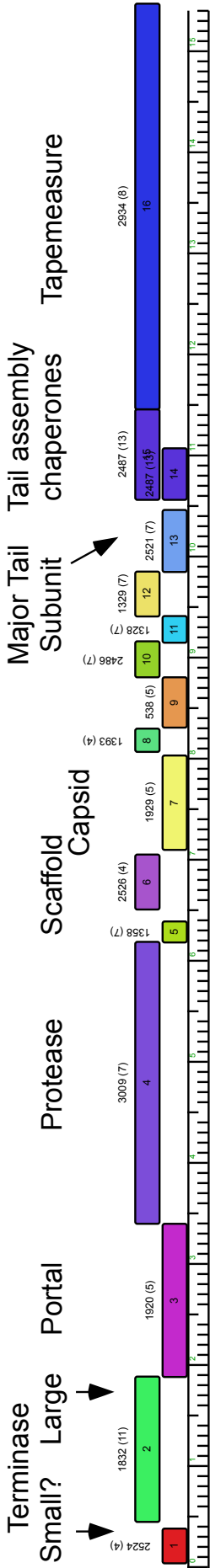
## Toxin/Antitoxin system? DNA-binding protein?



## MPME2

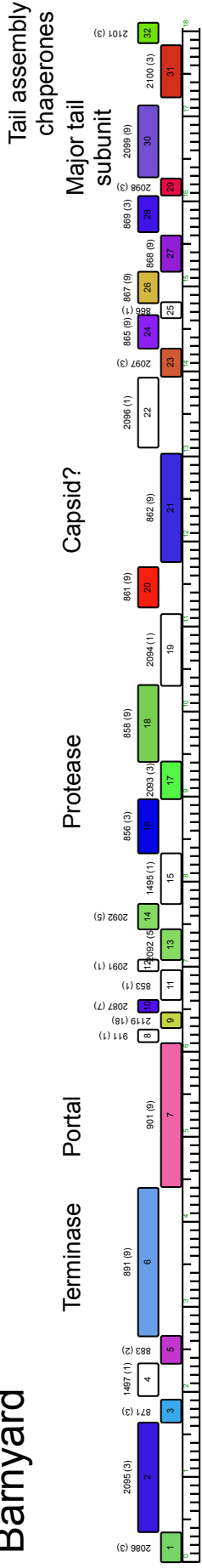


# BPs

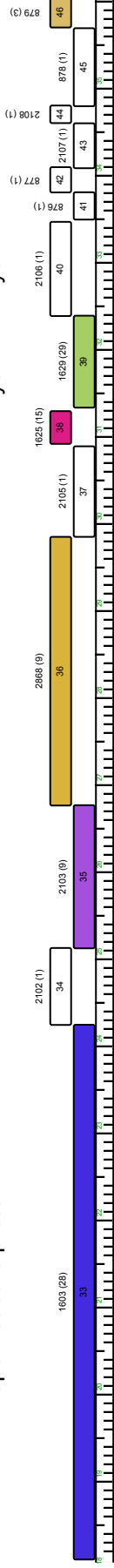




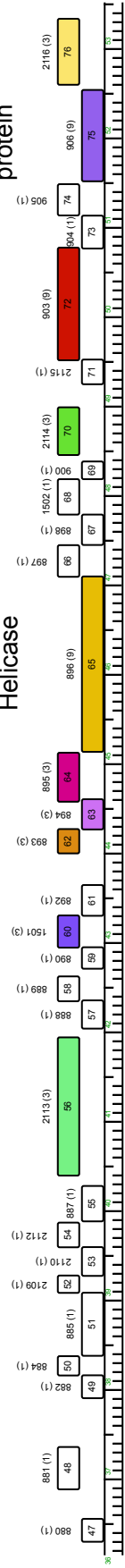
# Barnyard



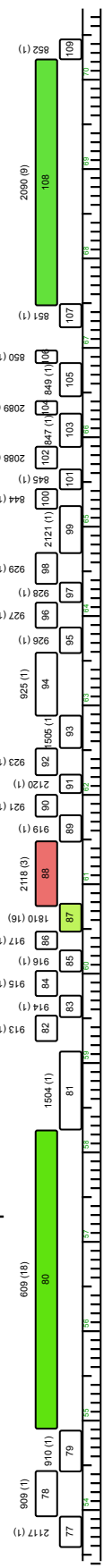
# Tapemeasure protein



# Nucleotide binding protein

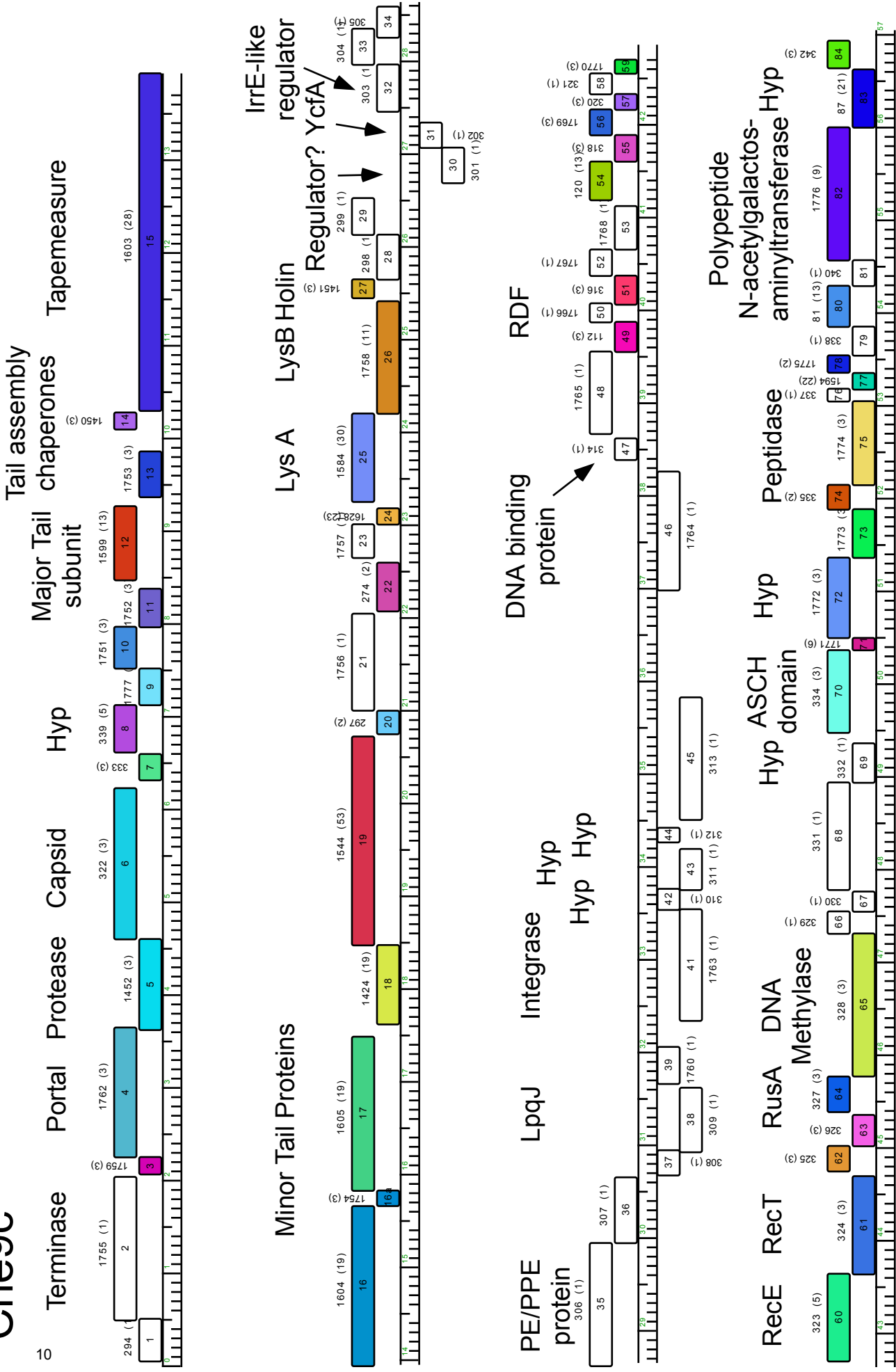


# DNA Pol III Alpha

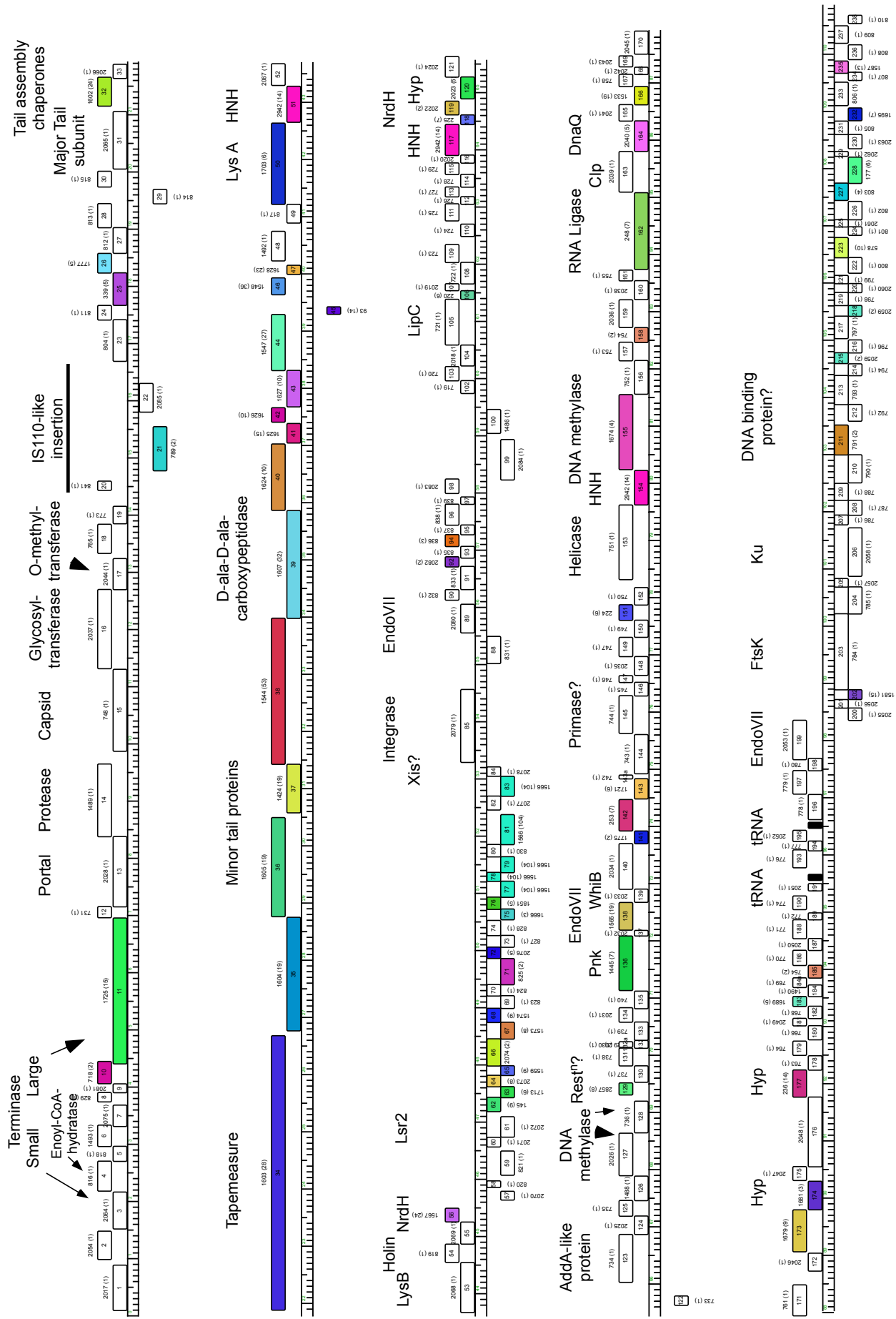


# Che9C

10



# Omega



# TM4

Tail assembly  
chaperones  
Tapemeasure

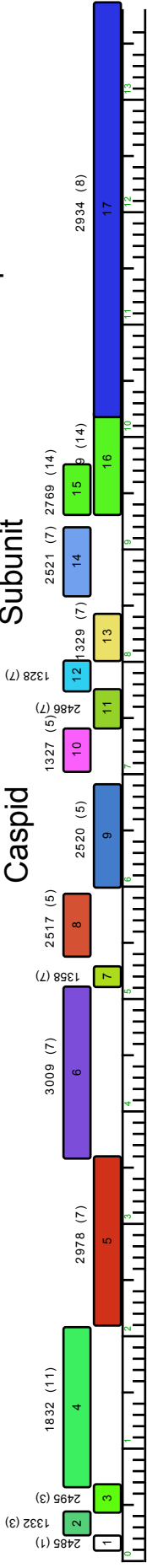
Major Tail  
Subunit

Capsid

Protease Scaffold

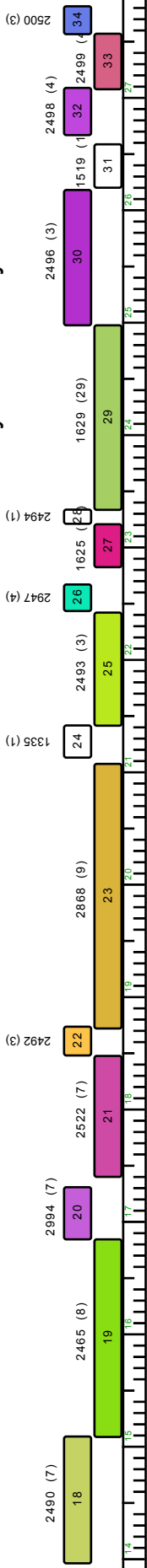
Portal

Terminase



Minor Tail Proteins

LysA LysB HoIn



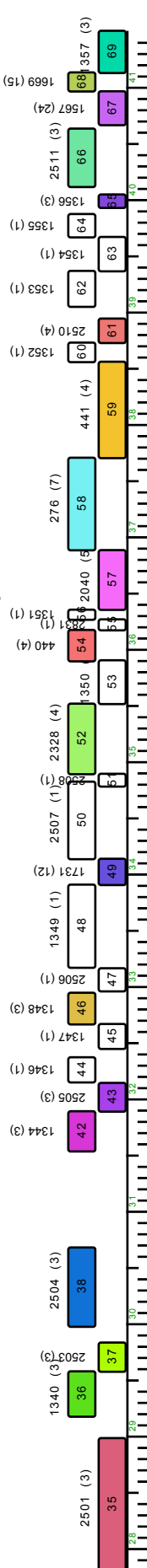
DNA-binding  
protein?

WhiB

DnaQ-like  
protein

Hyp

NrdH



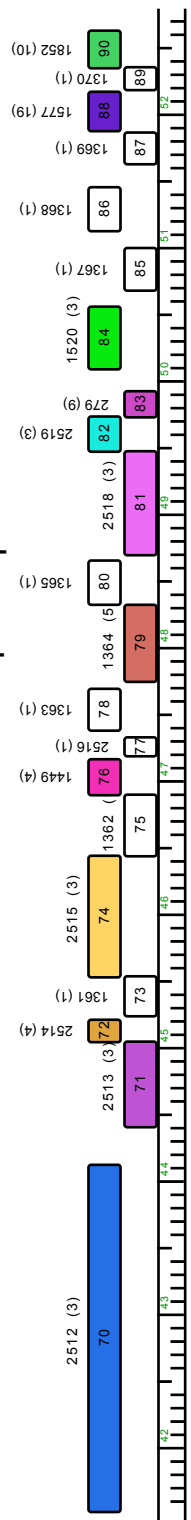
Primase/Helicase

RusA

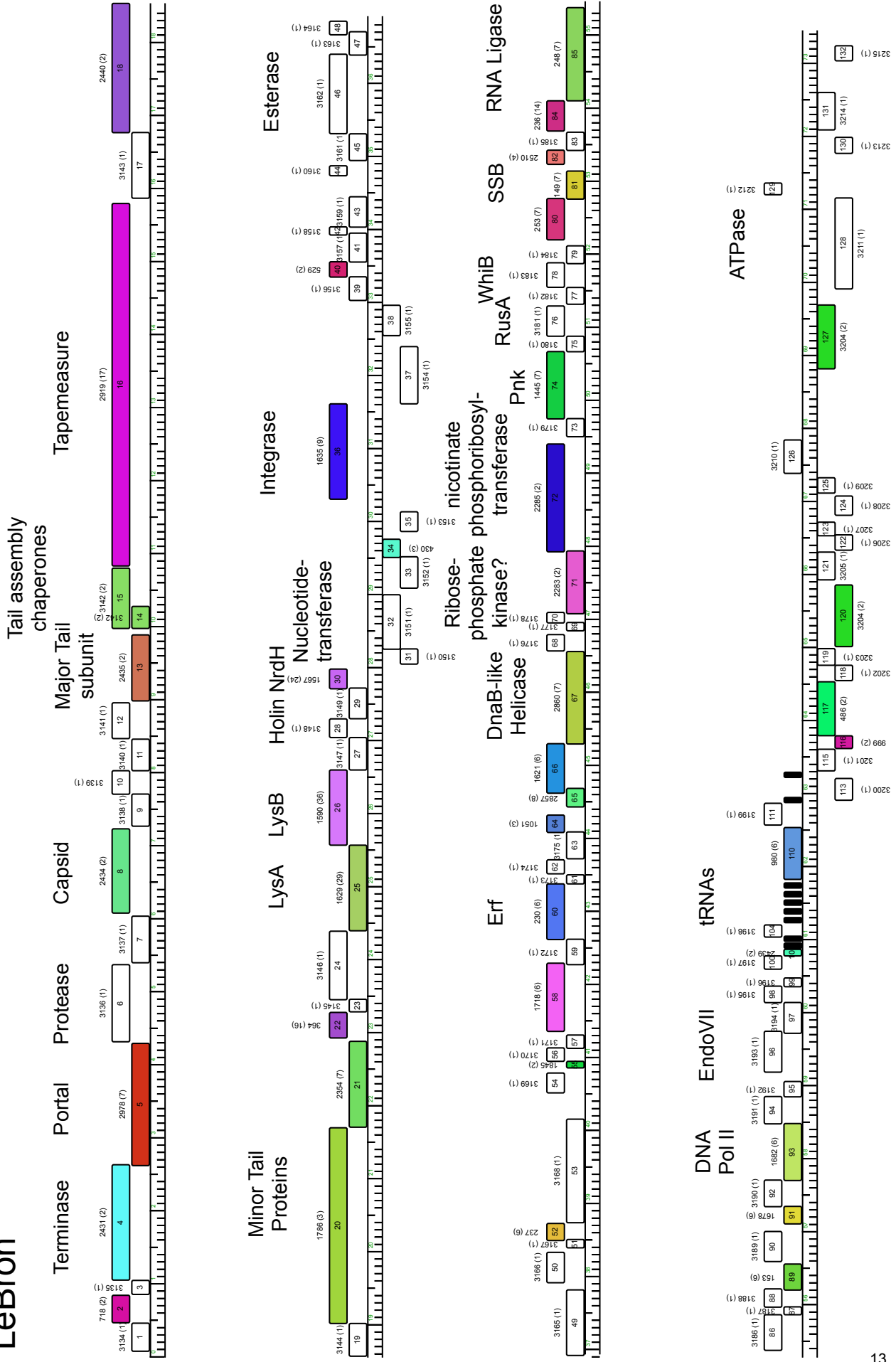
DNA-binding  
protein?

SprT

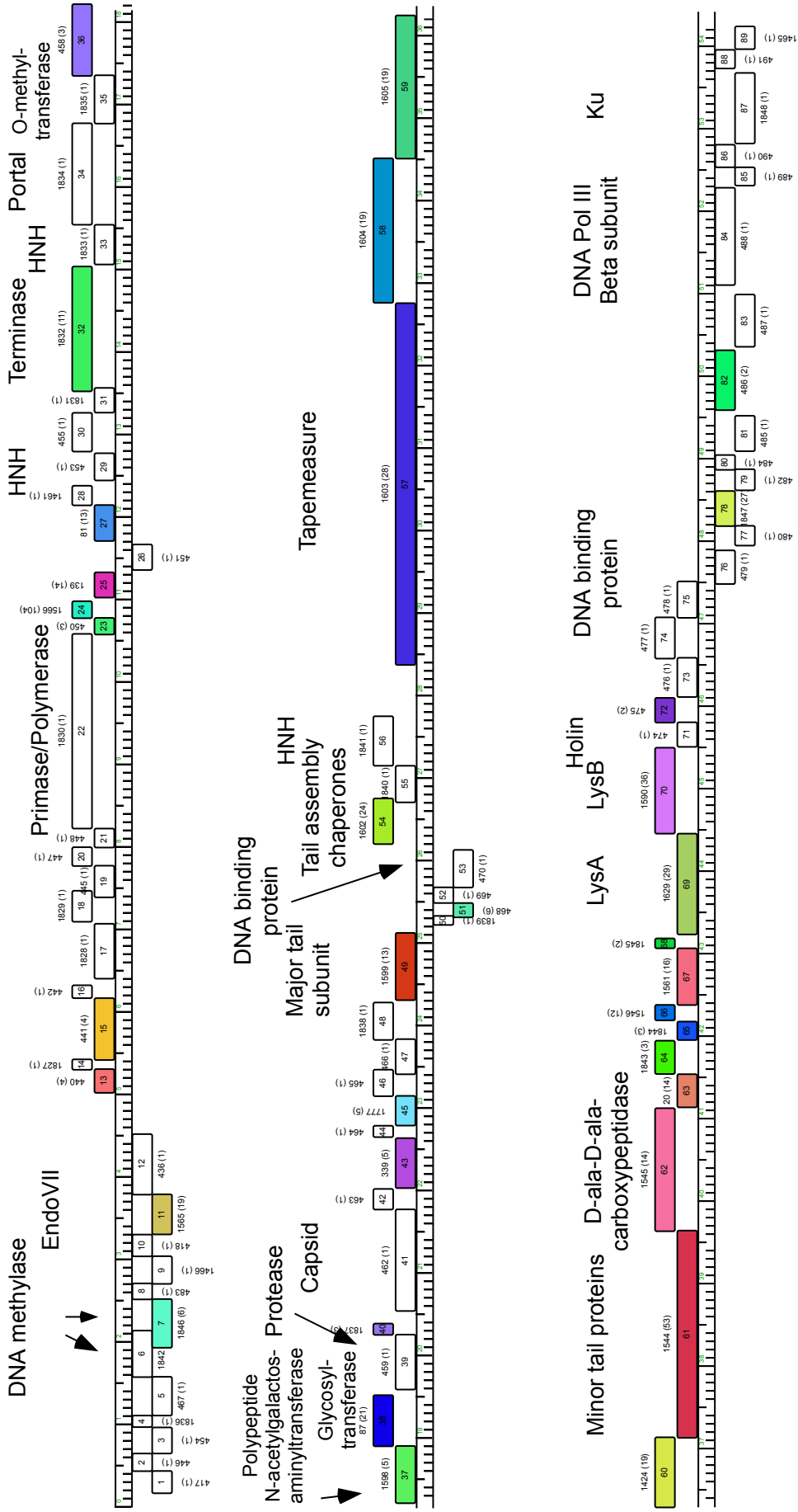
HNH



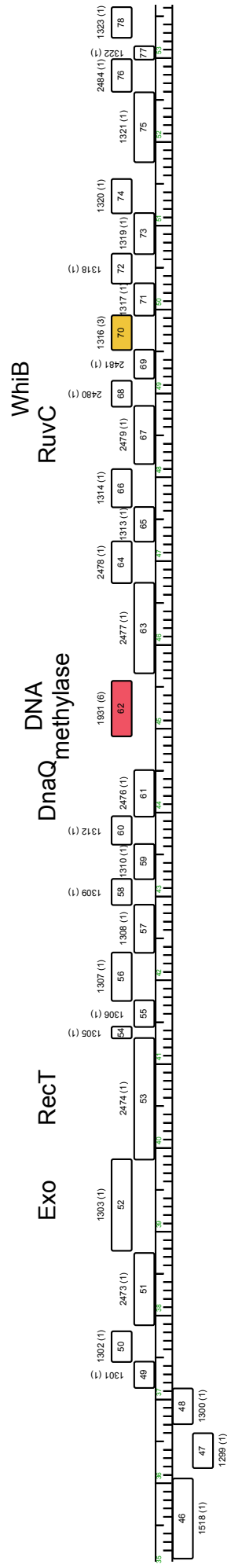
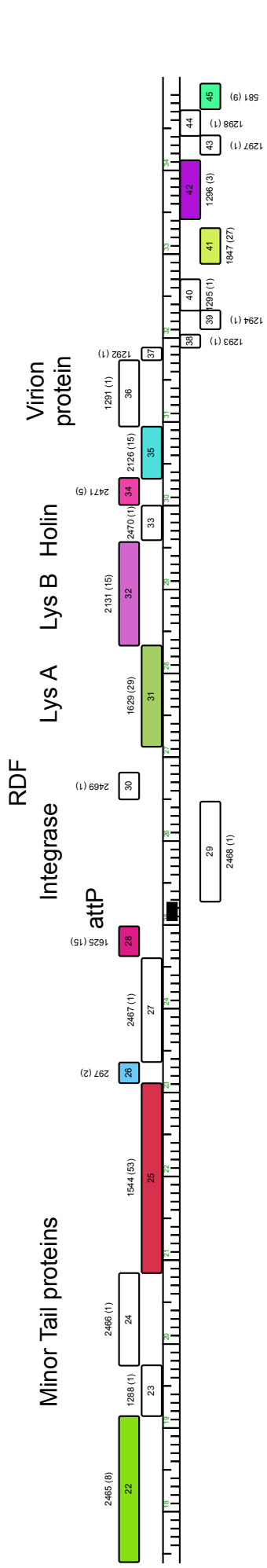
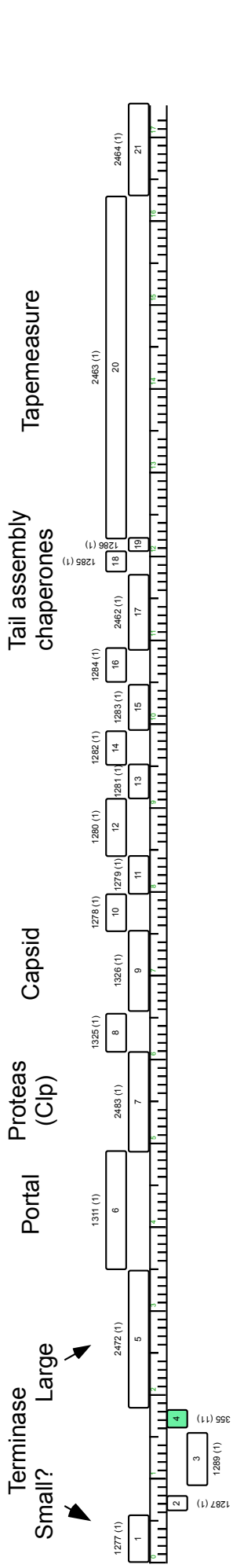
# LeBron



# Corndog



# Giles



# Wildcat

