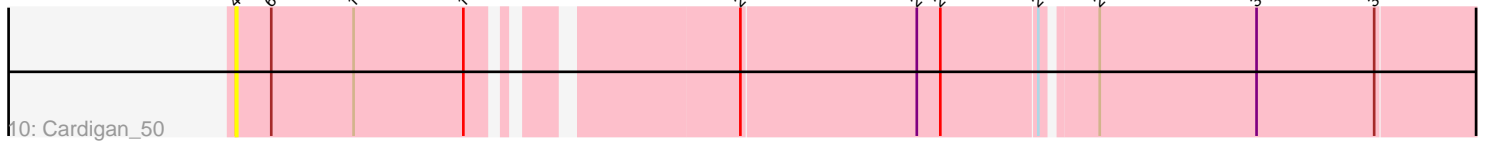
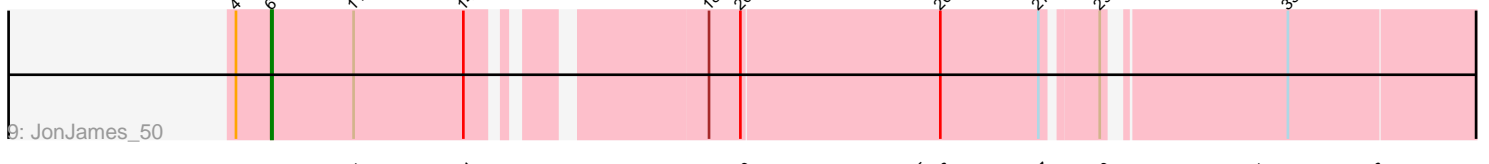
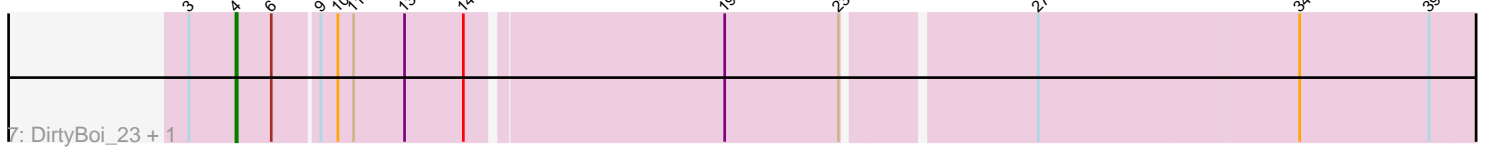
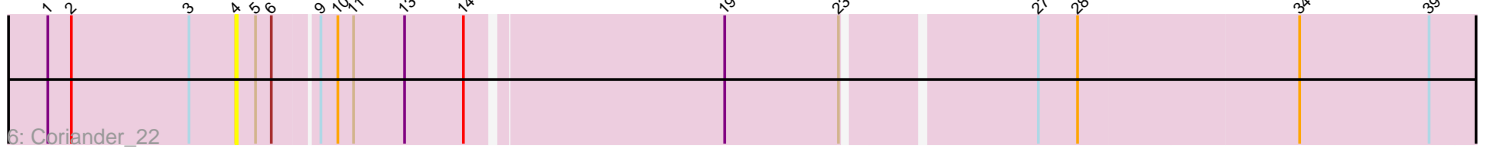
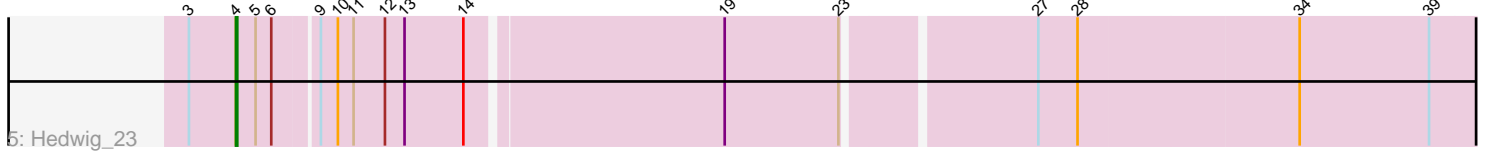
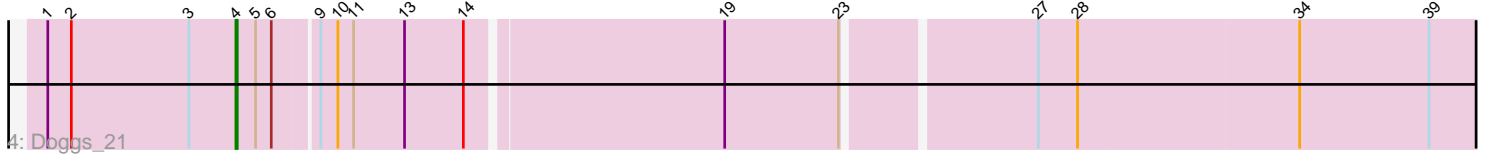
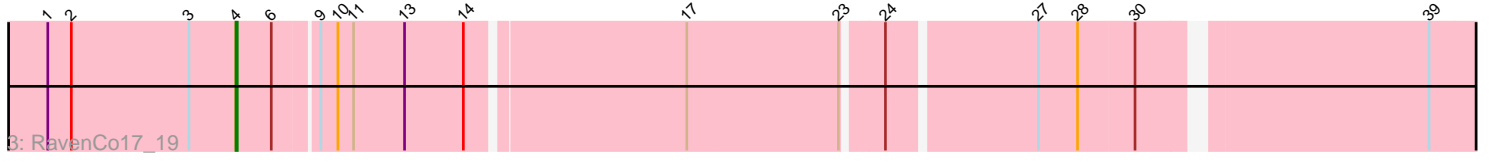
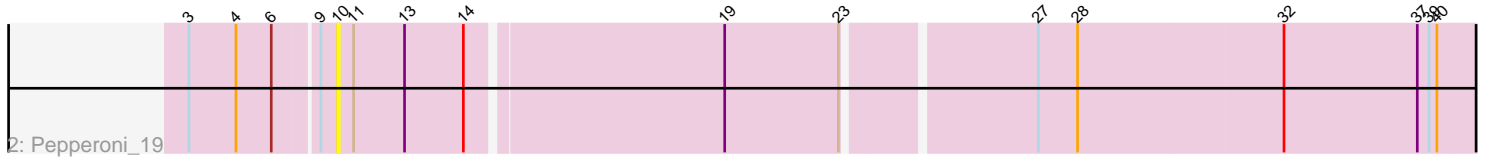
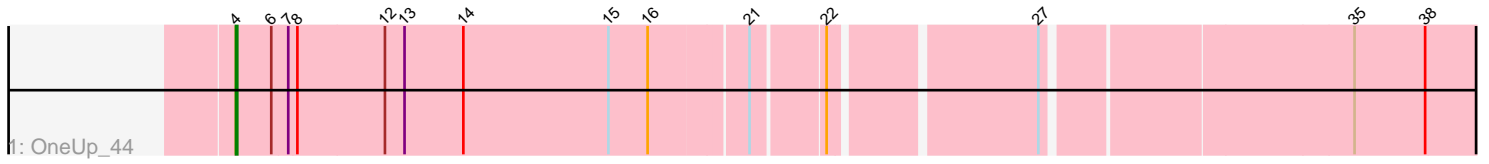


# Pham 170503



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 170503 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170503 has 11 members, 3 are drafts.

Phages represented in each track:

- Track 1 : OneUp\_44
- Track 2 : Pepperoni\_19
- Track 3 : RavenCo17\_19
- Track 4 : Doggs\_21
- Track 5 : Hedwig\_23
- Track 6 : Coriander\_22
- Track 7 : DirtyBoi\_23, RayTheFireFly\_22
- Track 8 : Yvonnetastic\_48
- Track 9 : JonJames\_50
- Track 10 : Cardigan\_50

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 4, it was called in 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cardigan\_50, Coriander\_22, DirtyBoi\_23, Doggs\_21, Hedwig\_23, OneUp\_44, RavenCo17\_19, RayTheFireFly\_22, Yvonnetastic\_48,

Genes that have the "Most Annotated" start but do not call it:

- JonJames\_50, Pepperoni\_19,

Genes that do not have the "Most Annotated" start:

- 

### **Summary by start number:**

Start 4:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Cardigan\_50 (DD), Coriander\_22 (DB), DirtyBoi\_23 (DB), Doggs\_21 (DB), Hedwig\_23 (DB), OneUp\_44 (CQ2),

RavenCo17\_19 (CZ8), RayTheFireFly\_22 (DB), Yvonnetastic\_48 (DD),

Start 6:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 9.1% of time when present
- Phage (with cluster) where this start called: JonJames\_50 (DD),

Start 10:

- Found in 7 of 11 ( 63.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Pepperoni\_19 (CZ),

### **Summary by clusters:**

There are 5 clusters represented in this pham: CQ2, DD, DB, CZ8, CZ,

Info for manual annotations of cluster CQ2:

- Start number 4 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CZ8:

- Start number 4 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DB:

- Start number 4 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DD:

- Start number 4 was manually annotated 1 time for cluster DD.
- Start number 6 was manually annotated 1 time for cluster DD.

### **Gene Information:**

Gene: Cardigan\_50 Start: 35257, Stop: 36186, Start Num: 4

Candidate Starts for Cardigan\_50:

(Start: 4 @35257 has 7 MA's), (Start: 6 @35284 has 1 MA's), (11, 35347), (14, 35431), (20, 35602), (25, 35734), (26, 35752), (27, 35824), (29, 35860), (31, 35980), (36, 36070),

Gene: Coriander\_22 Start: 20422, Stop: 21342, Start Num: 4

Candidate Starts for Coriander\_22:

(1, 20278), (2, 20296), (3, 20386), (Start: 4 @20422 has 7 MA's), (5, 20437), (Start: 6 @20449 has 1 MA's), (9, 20479), (10, 20491), (11, 20503), (13, 20542), (14, 20587), (19, 20773), (23, 20860), (27, 20995), (28, 21025), (34, 21190), (39, 21289),

Gene: DirtyBoi\_23 Start: 19883, Stop: 20803, Start Num: 4

Candidate Starts for DirtyBoi\_23:

(3, 19847), (Start: 4 @19883 has 7 MA's), (Start: 6 @19910 has 1 MA's), (9, 19940), (10, 19952), (11, 19964), (13, 20003), (14, 20048), (19, 20234), (23, 20321), (27, 20456), (34, 20651), (39, 20750),

Gene: Doggs\_21 Start: 20121, Stop: 21041, Start Num: 4

Candidate Starts for Doggs\_21:

(1, 19977), (2, 19995), (3, 20085), (Start: 4 @20121 has 7 MA's), (5, 20136), (Start: 6 @20148 has 1 MA's), (9, 20178), (10, 20190), (11, 20202), (13, 20241), (14, 20286), (19, 20472), (23, 20559), (27, 20694), (28, 20724), (34, 20889), (39, 20988),

Gene: Hedwig\_23 Start: 19879, Stop: 20799, Start Num: 4

Candidate Starts for Hedwig\_23:

(3, 19843), (Start: 4 @19879 has 7 MA's), (5, 19894), (Start: 6 @19906 has 1 MA's), (9, 19936), (10, 19948), (11, 19960), (12, 19984), (13, 19999), (14, 20044), (19, 20230), (23, 20317), (27, 20452), (28, 20482), (34, 20647), (39, 20746),

Gene: JonJames\_50 Start: 36217, Stop: 37089, Start Num: 6

Candidate Starts for JonJames\_50:

(Start: 4 @36190 has 7 MA's), (Start: 6 @36217 has 1 MA's), (11, 36280), (14, 36364), (18, 36511), (20, 36535), (26, 36685), (27, 36760), (29, 36796), (33, 36922),

Gene: OneUp\_44 Start: 29381, Stop: 30328, Start Num: 4

Candidate Starts for OneUp\_44:

(Start: 4 @29381 has 7 MA's), (Start: 6 @29408 has 1 MA's), (7, 29420), (8, 29426), (12, 29492), (13, 29507), (14, 29552), (15, 29663), (16, 29693), (21, 29762), (22, 29813), (27, 29957), (35, 30179), (38, 30233),

Gene: Pepperoni\_19 Start: 17529, Stop: 18416, Start Num: 10

Candidate Starts for Pepperoni\_19:

(3, 17424), (Start: 4 @17460 has 7 MA's), (Start: 6 @17487 has 1 MA's), (9, 17517), (10, 17529), (11, 17541), (13, 17580), (14, 17625), (19, 17811), (23, 17898), (27, 18033), (28, 18063), (32, 18216), (37, 18318), (39, 18327), (40, 18333),

Gene: RavenCo17\_19 Start: 17994, Stop: 18929, Start Num: 4

Candidate Starts for RavenCo17\_19:

(1, 17850), (2, 17868), (3, 17958), (Start: 4 @17994 has 7 MA's), (Start: 6 @18021 has 1 MA's), (9, 18051), (10, 18063), (11, 18075), (13, 18114), (14, 18159), (17, 18318), (23, 18432), (24, 18459), (27, 18567), (28, 18597), (30, 18639), (39, 18843),

Gene: RayTheFireFly\_22 Start: 20454, Stop: 21374, Start Num: 4

Candidate Starts for RayTheFireFly\_22:

(3, 20418), (Start: 4 @20454 has 7 MA's), (Start: 6 @20481 has 1 MA's), (9, 20511), (10, 20523), (11, 20535), (13, 20574), (14, 20619), (19, 20805), (23, 20892), (27, 21027), (34, 21222), (39, 21321),

Gene: Yvonnetastic\_48 Start: 33725, Stop: 34624, Start Num: 4

Candidate Starts for Yvonnetastic\_48:

(Start: 4 @33725 has 7 MA's), (Start: 6 @33752 has 1 MA's), (11, 33815), (14, 33899), (18, 34046), (20, 34070), (26, 34220), (27, 34295), (29, 34331), (33, 34457),