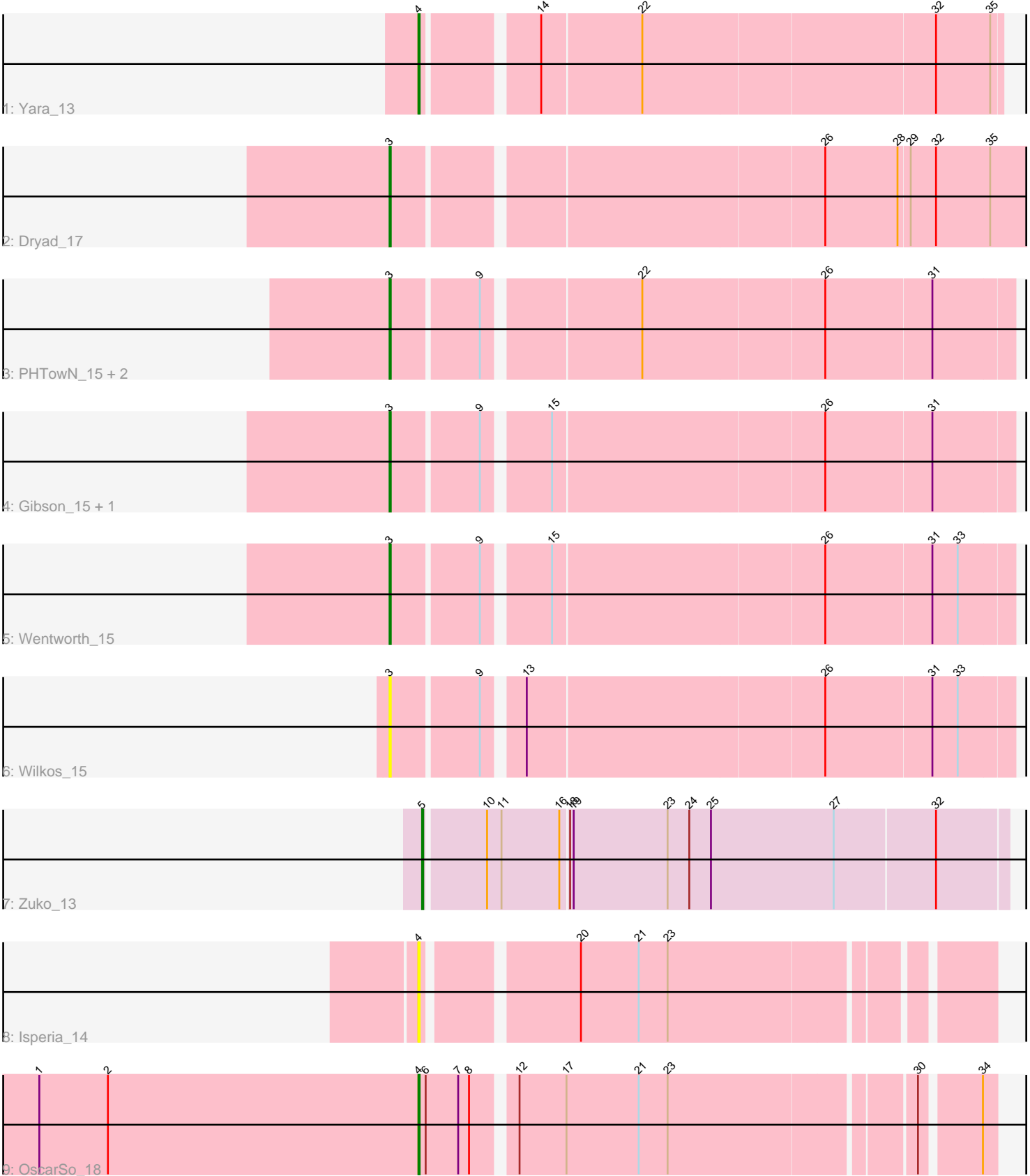


Pham 144605



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 144605 Report

This analysis was run 04/28/24 on database version 559.

Pham number 144605 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Yara\_13
- Track 2 : Dryad\_17
- Track 3 : PHTowN\_15, Lizz\_15, ShakeNBake\_15
- Track 4 : Gibson\_15, Rooney\_15
- Track 5 : Wentworth\_15
- Track 6 : Wilkos\_15
- Track 7 : Zuko\_13
- Track 8 : Isperia\_14
- Track 9 : OscarSo\_18

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

The start number called the most often in the published annotations is 3, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad\_17, Gibson\_15, Lizz\_15, PHTowN\_15, Rooney\_15, ShakeNBake\_15, Wentworth\_15, Wilkos\_15,

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

- 

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

- Isperia\_14, OscarSo\_18, Yara\_13, Zuko\_13,

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

Start 3:

- Found in 8 of 12 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 7 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad\_17 (BN), Gibson\_15 (BN), Lizz\_15 (BN), PHTowN\_15 (BN), Rooney\_15 (BN), ShakeNBake\_15 (BN), Wentworth\_15 (BN), Wilkos\_15 (BN),

#### Start 4:

- Found in 3 of 12 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Isperia\_14 (GJ), OscarSo\_18 (GJ), Yara\_13 (BN),

#### Start 5:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zuko\_13 (BR),

### Summary by clusters:

There are 3 clusters represented in this pham: BN, GJ, BR,

Info for manual annotations of cluster BN:

- Start number 3 was manually annotated 7 times for cluster BN.
- Start number 4 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster BR:

- Start number 5 was manually annotated 1 time for cluster BR.

Info for manual annotations of cluster GJ:

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

### Gene Information:

Gene: Dryad\_17 Start: 10463, Stop: 10966, Start Num: 3

Candidate Starts for Dryad\_17:

(Start: 3 @10463 has 7 MA's), (26, 10799), (28, 10859), (29, 10868), (32, 10889), (35, 10934),

Gene: Gibson\_15 Start: 10042, Stop: 10530, Start Num: 3

Candidate Starts for Gibson\_15:

(Start: 3 @10042 has 7 MA's), (9, 10111), (15, 10159), (26, 10378), (31, 10465),

Gene: Isperia\_14 Start: 9829, Stop: 10260, Start Num: 4

Candidate Starts for Isperia\_14:

(Start: 4 @9829 has 2 MA's), (20, 9943), (21, 9991), (23, 10015),

Gene: Lizz\_15 Start: 9958, Stop: 10446, Start Num: 3

Candidate Starts for Lizz\_15:

(Start: 3 @9958 has 7 MA's), (9, 10027), (22, 10147), (26, 10294), (31, 10381),

Gene: OscarSo\_18 Start: 12271, Stop: 12714, Start Num: 4

Candidate Starts for OscarSo\_18:

(1, 11956), (2, 12013), (Start: 4 @12271 has 2 MA's), (6, 12277), (7, 12304), (8, 12313), (12, 12343), (17, 12382), (21, 12442), (23, 12466), (30, 12658), (34, 12703),

Gene: PHTown\_15 Start: 9958, Stop: 10446, Start Num: 3

Candidate Starts for PHTown\_15:

(Start: 3 @9958 has 7 MA's), (9, 10027), (22, 10147), (26, 10294), (31, 10381),

Gene: Rooney\_15 Start: 10039, Stop: 10527, Start Num: 3

Candidate Starts for Rooney\_15:

(Start: 3 @10039 has 7 MA's), (9, 10108), (15, 10156), (26, 10375), (31, 10462),

Gene: ShakeNBake\_15 Start: 9958, Stop: 10446, Start Num: 3

Candidate Starts for ShakeNBake\_15:

(Start: 3 @9958 has 7 MA's), (9, 10027), (22, 10147), (26, 10294), (31, 10381),

Gene: Wentworth\_15 Start: 9754, Stop: 10242, Start Num: 3

Candidate Starts for Wentworth\_15:

(Start: 3 @9754 has 7 MA's), (9, 9823), (15, 9871), (26, 10090), (31, 10177), (33, 10198),

Gene: Wilkos\_15 Start: 9923, Stop: 10411, Start Num: 3

Candidate Starts for Wilkos\_15:

(Start: 3 @9923 has 7 MA's), (9, 9992), (13, 10019), (26, 10259), (31, 10346), (33, 10367),

Gene: Yara\_13 Start: 9057, Stop: 9512, Start Num: 4

Candidate Starts for Yara\_13:

(Start: 4 @9057 has 2 MA's), (14, 9141), (22, 9222), (32, 9459), (35, 9504),

Gene: Zuko\_13 Start: 10859, Stop: 11329, Start Num: 5

Candidate Starts for Zuko\_13:

(Start: 5 @10859 has 1 MA's), (10, 10907), (11, 10919), (16, 10967), (18, 10973), (19, 10976), (23, 11054), (24, 11072), (25, 11090), (27, 11192), (32, 11273),