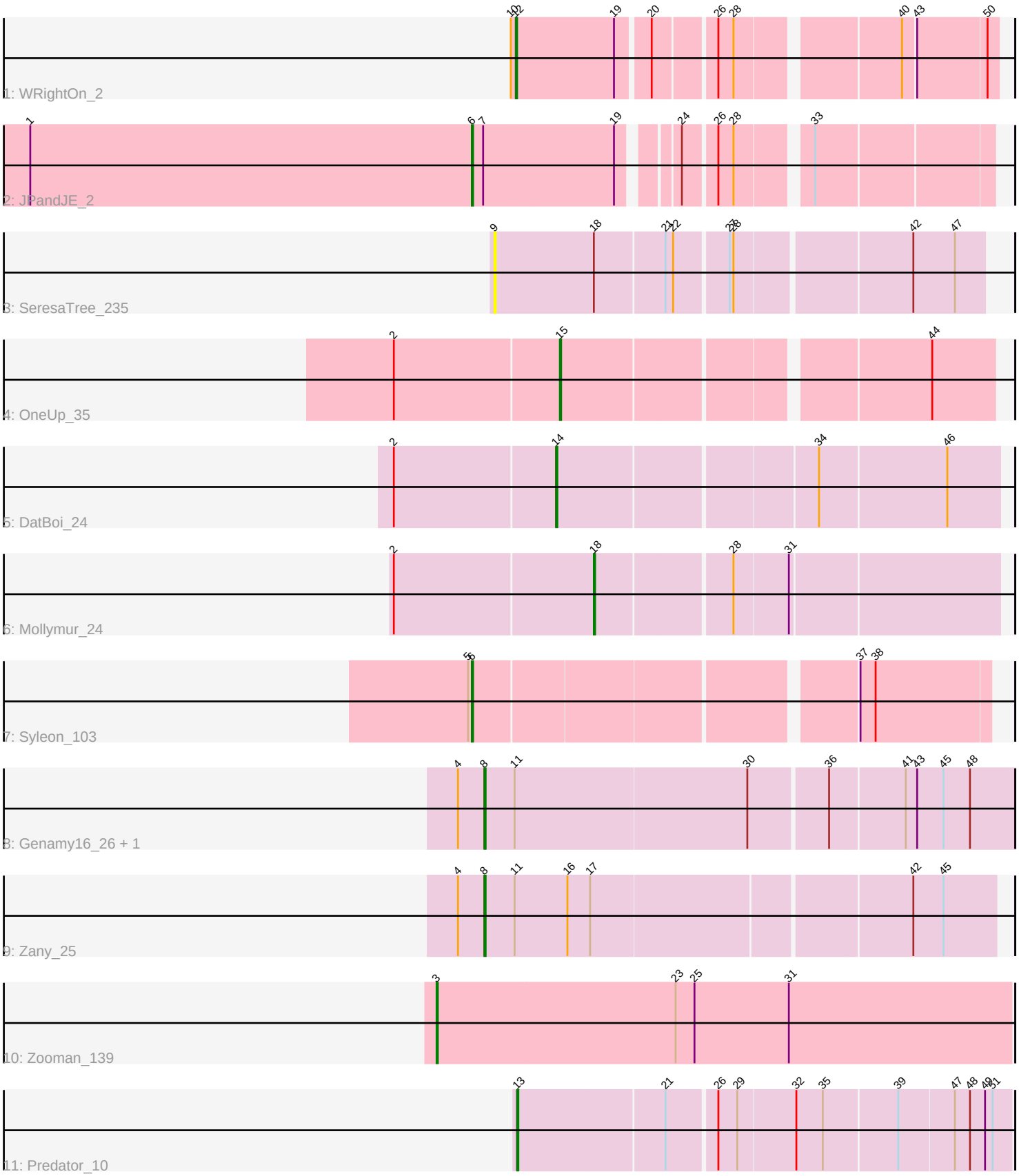
# Pham 158308


1: WRightOn_2
2: JPandJE_2
3: SeresaTree_235
4: OneUp_35
5: DatBoi_24
6: Mollymur_24
7: Syleon_103
8: Genamy16_26 + 1
9: Zany_25
10: Zooman_139
11: Predator_10

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 158308 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158308 has 12 members, 1 are drafts.

Phages represented in each track:
• Track 1 : WRightOn_2
• Track 2 : JPandJE_2
• Track 3 : SeresaTree_235
• Track 4 : OneUp_35
• Track 5 : DatBoi_24
• Track 6 : Mollymur_24
• Track 7 : Syleon_103
• Track 8 : Genamy16_26, Alyssamiracle_26
• Track 9 : Zany_25
• Track 10 : Zooman_139
• Track 11 : Predator_10

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

The start number called the most often in the published annotations is 8, it was called in 3 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alyssamiracle_26, Genamy16_26, Zany_25,

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

Genes that do not have the "Most Annotated" start:
• DatBoi_24, JPandJE_2, Mollymur_24, OneUp_35, Predator_10, SeresaTree_235, Syleon_103, WRightOn_2, Zooman_139,

**Summary by start number:**

Start 3:
• Found in 1 of 12 ( 8.3% ) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Zooman_139 (GD2),

Start 6:
• Found in 2 of 12 ( 16.7% ) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JPandJE_2 (BF), Syleon_103 (DU1),

Start 8:
• Found in 3 of 12 ( 25.0% ) of genes in pham
• Manual Annotations of this start: 3 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alyssamiracle_26 (DV), Genamy16_26 (DV), Zany_25 (DV),

Start 9:
• Found in 1 of 12 ( 8.3% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SeresaTree_235 (BK1),

Start 12:
• Found in 1 of 12 ( 8.3% ) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: WRightOn_2 (BF),

Start 13:
• Found in 1 of 12 ( 8.3% ) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Predator_10 (H1),

Start 14:
• Found in 1 of 12 ( 8.3% ) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DatBoi_24 (DL),

Start 15:
• Found in 1 of 12 ( 8.3% ) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OneUp_35 (CQ2),

Start 18:
• Found in 2 of 12 ( 16.7% ) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mollymur_24 (DL),

**Summary by clusters:**

There are 8 clusters represented in this pham: BF, H1, GD2, BK1, DU1, DV, CQ2, DL,

Info for manual annotations of cluster BF:
•Start number 6 was manually annotated 1 time for cluster BF.
•Start number 12 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster CQ2:
•Start number 15 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DL:
•Start number 14 was manually annotated 1 time for cluster DL.
•Start number 18 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DU1:
•Start number 6 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster DV:
•Start number 8 was manually annotated 3 times for cluster DV.

Info for manual annotations of cluster GD2:
•Start number 3 was manually annotated 1 time for cluster GD2.

Info for manual annotations of cluster H1:
•Start number 13 was manually annotated 1 time for cluster H1.

### *Gene Information:*

Gene: Alyssamiracle_26 Start: 15136, Stop: 15546, Start Num: 8
Candidate Starts for Alyssamiracle_26:
(4, 15115), (Start: 8 @15136 has 3 MA's), (11, 15160), (30, 15343), (36, 15403), (41, 15460), (43, 15469), (45, 15490), (48, 15511),

Gene: DatBoi_24 Start: 15695, Stop: 16030, Start Num: 14
Candidate Starts for DatBoi_24:
(2, 15569), (Start: 14 @15695 has 1 MA's), (34, 15890), (46, 15989),

Gene: Genamy16_26 Start: 15136, Stop: 15546, Start Num: 8
Candidate Starts for Genamy16_26:
(4, 15115), (Start: 8 @15136 has 3 MA's), (11, 15160), (30, 15343), (36, 15403), (41, 15460), (43, 15469), (45, 15490), (48, 15511),

Gene: JPandJE_2 Start: 2649, Stop: 3017, Start Num: 6
Candidate Starts for JPandJE_2:
(1, 2298), (Start: 6 @2649 has 2 MA's), (7, 2658), (19, 2760), (24, 2796), (26, 2820), (28, 2832), (33, 2883),

Gene: Mollymur_24 Start: 15771, Stop: 16076, Start Num: 18
Candidate Starts for Mollymur_24:
(2, 15615), (Start: 18 @15771 has 1 MA's), (28, 15873), (31, 15915),

Gene: OneUp_35 Start: 15247, Stop: 15564, Start Num: 15
Candidate Starts for OneUp_35:
(2, 15118), (Start: 15 @15247 has 1 MA's), (44, 15517),

Gene: Predator_10 Start: 6815, Stop: 7189, Start Num: 13
Candidate Starts for Predator_10:
(Start: 13 @6815 has 1 MA's), (21, 6929), (26, 6965), (29, 6980), (32, 7025), (35, 7046), (39, 7103), (47, 7145), (48, 7157), (49, 7169), (51, 7175),

Gene: SeresaTree_235 Start: 114238, Stop: 114606, Start Num: 9
Candidate Starts for SeresaTree_235:
(9, 114238), (Start: 18 @114316 has 1 MA's), (21, 114370), (22, 114376), (27, 114415), (28, 114418), (42, 114550), (47, 114583),

Gene: Syleon_103 Start: 59026, Stop: 59409, Start Num: 6
Candidate Starts for Syleon_103:
(5, 59023), (Start: 6 @59026 has 2 MA's), (37, 59308), (38, 59320),

Gene: WRightOn_2 Start: 2629, Stop: 2976, Start Num: 12
Candidate Starts for WRightOn_2:
(10, 2626), (Start: 12 @2629 has 1 MA's), (19, 2707), (20, 2731), (26, 2776), (28, 2788), (40, 2905), (43, 2914), (50, 2968),

Gene: Zany_25 Start: 17287, Stop: 17679, Start Num: 8
Candidate Starts for Zany_25:
(4, 17266), (Start: 8 @17287 has 3 MA's), (11, 17311), (16, 17353), (17, 17371), (42, 17614), (45, 17638),

Gene: Zooman_139 Start: 88579, Stop: 89034, Start Num: 3
Candidate Starts for Zooman_139:
(Start: 3 @88579 has 1 MA's), (23, 88768), (25, 88783), (31, 88858),