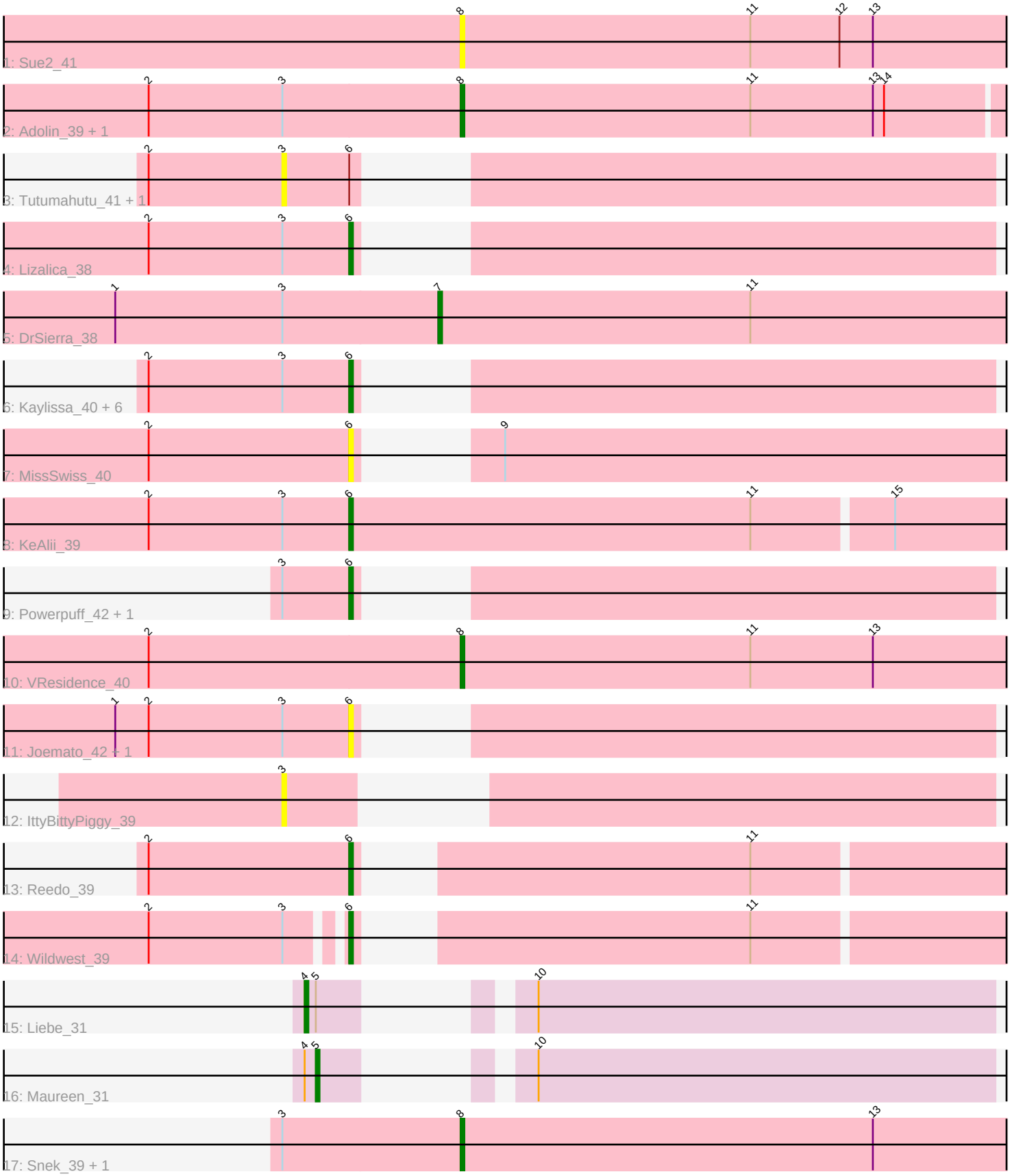
Pham 4064


1: Sue2_41
2: Adolin_39 + 1
3: Tutumahutu_41 + 1
4: Lizalica_38
5: DrSierra_38
6: Kaylissa_40 + 6
7: MissSwiss_40
8: KeAlii_39
9: Powerpuff_42 + 1
10: VResidence_40
11: Joemato_42 + 1
12: IttyBittyPiggy_39
13: Reedo_39
14: Wildwest_39
15: Liebe_31
16: Maureen_31
17: Snek_39 + 1

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 4064 Report

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

Pham number 4064 has 28 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Sue2_41
• Track 2 : Adolin_39, DrManhattan_39
• Track 3 : Tutumahutu_41, Mudpuppy_38
• Track 4 : Lizalica_38
• Track 5 : DrSierra_38
• Track 6 : Kaylissa_40, Cyan_39, Lego_40, AGrandiflora_40, Warda_40, JohnDoe_40, Tbone_39
• Track 7 : MissSwiss_40
• Track 8 : KeAlii_39
• Track 9 : Powerpuff_42, YesChef_40
• Track 10 : VResidence_40
• Track 11 : Joemato_42, Simpson_42
• Track 12 : IttyBittyPiggy_39
• Track 13 : Reedo_39
• Track 14 : Wildwest_39
• Track 15 : Liebe_31
• Track 16 : Maureen_31
• Track 17 : Snek_39, Tweety19_39

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

The start number called the most often in the published annotations is 6, it was called in 11 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AGrandiflora_40, Cyan_39, Joemato_42, JohnDoe_40, Kaylissa_40, KeAlii_39, Lego_40, Lizalica_38, MissSwiss_40, Powerpuff_42, Reedo_39, Simpson_42, Tbone_39, Warda_40, Wildwest_39, YesChef_40,

Genes that have the "Most Annotated" start but do not call it:
• Mudpuppy_38, Tutumahutu_41,

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

• Adolin_39, DrManhattan_39, DrSierra_38, IttyBittyPiggy_39, Liebe_31, Maureen_31, Snek_39, Sue2_41, Tweety19_39, VResidence_40,

Summary by start number:

Start 3:
• Found in 22 of 28 (78.6%) of genes in pham
• No Manual Annotations of this start.
• Called 13.6% of time when present
• Phage (with cluster) where this start called: IttyBittyPiggy_39 (AZ1), Mudpuppy_38 (AZ1), Tutumahutu_41 (AZ1),

Start 4:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Liebe_31 (AZ2),

Start 5:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Maureen_31 (AZ2),

Start 6:
• Found in 18 of 28 (64.3%) of genes in pham
• Manual Annotations of this start: 11 of 19
• Called 88.9% of time when present
• Phage (with cluster) where this start called: AGrandiflora_40 (AZ1), Cyan_39 (AZ1), Joemato_42 (AZ1), JohnDoe_40 (AZ1), Kaylissa_40 (AZ1), KeAlii_39 (AZ1), Lego_40 (AZ1), Lizalica_38 (AZ1), MissSwiss_40 (AZ1), Powerpuff_42 (AZ1), Reedo_39 (AZ1), Simpson_42 (AZ1), Tbone_39 (AZ1), Warda_40 (AZ1), Wildwest_39 (AZ1), YesChef_40 (AZ1),

Start 7:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DrSierra_38 (AZ1),

Start 8:
• Found in 6 of 28 (21.4%) of genes in pham
• Manual Annotations of this start: 5 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adolin_39 (AZ1), DrManhattan_39 (AZ1), Snek_39 (AZ3), Sue2_41 (AZ1), Tweety19_39 (AZ3), VResidence_40 (AZ1),

Summary by clusters:

There are 3 clusters represented in this pham: AZ1, AZ2, AZ3,

Info for manual annotations of cluster AZ1:
•Start number 6 was manually annotated 11 times for cluster AZ1.

•Start number 7 was manually annotated 1 time for cluster AZ1.
•Start number 8 was manually annotated 3 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 4 was manually annotated 1 time for cluster AZ2.
•Start number 5 was manually annotated 1 time for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 8 was manually annotated 2 times for cluster AZ3.

Gene Information:

Gene: AGrandiflora_40 Start: 29271, Stop: 29414, Start Num: 6
Candidate Starts for AGrandiflora_40:
(2, 29217), (3, 29253), (Start: 6 @29271 has 11 MA's),

Gene: Adolin_39 Start: 27477, Stop: 27626, Start Num: 8
Candidate Starts for Adolin_39:
(2, 27423), (3, 27459), (Start: 8 @27477 has 5 MA's), (11, 27555), (13, 27588), (14, 27591),

Gene: Cyan_39 Start: 29326, Stop: 29469, Start Num: 6
Candidate Starts for Cyan_39:
(2, 29272), (3, 29308), (Start: 6 @29326 has 11 MA's),

Gene: DrManhattan_39 Start: 27467, Stop: 27616, Start Num: 8
Candidate Starts for DrManhattan_39:
(2, 27413), (3, 27449), (Start: 8 @27467 has 5 MA's), (11, 27545), (13, 27578), (14, 27581),

Gene: DrSierra_38 Start: 27432, Stop: 27593, Start Num: 7
Candidate Starts for DrSierra_38:
(1, 27366), (3, 27411), (Start: 7 @27432 has 1 MA's), (11, 27516),

Gene: IttyBittyPiggy_39 Start: 28784, Stop: 28939, Start Num: 3
Candidate Starts for IttyBittyPiggy_39:
(3, 28784),

Gene: Joemato_42 Start: 29357, Stop: 29500, Start Num: 6
Candidate Starts for Joemato_42:
(1, 29294), (2, 29303), (3, 29339), (Start: 6 @29357 has 11 MA's),

Gene: JohnDoe_40 Start: 29349, Stop: 29492, Start Num: 6
Candidate Starts for JohnDoe_40:
(2, 29295), (3, 29331), (Start: 6 @29349 has 11 MA's),

Gene: Kaylissa_40 Start: 29292, Stop: 29435, Start Num: 6
Candidate Starts for Kaylissa_40:
(2, 29238), (3, 29274), (Start: 6 @29292 has 11 MA's),

Gene: KeAlii_39 Start: 29320, Stop: 29502, Start Num: 6
Candidate Starts for KeAlii_39:
(2, 29266), (3, 29302), (Start: 6 @29320 has 11 MA's), (11, 29428), (15, 29464),

Gene: Lego_40 Start: 29238, Stop: 29381, Start Num: 6
Candidate Starts for Lego_40:
(2, 29184), (3, 29220), (Start: 6 @29238 has 11 MA's),

Gene: Liebe_31 Start: 24318, Stop: 24467, Start Num: 4
Candidate Starts for Liebe_31:
(Start: 4 @24318 has 1 MA's), (Start: 5 @24321 has 1 MA's), (10, 24345),

Gene: Lizalica_38 Start: 28435, Stop: 28578, Start Num: 6
Candidate Starts for Lizalica_38:
(2, 28381), (3, 28417), (Start: 6 @28435 has 11 MA's),

Gene: Maureen_31 Start: 24321, Stop: 24467, Start Num: 5
Candidate Starts for Maureen_31:
(Start: 4 @24318 has 1 MA's), (Start: 5 @24321 has 1 MA's), (10, 24345),

Gene: MissSwiss_40 Start: 27977, Stop: 28162, Start Num: 6
Candidate Starts for MissSwiss_40:
(2, 27923), (Start: 6 @27977 has 11 MA's), (9, 27989),

Gene: Mudpuppy_38 Start: 29086, Stop: 29247, Start Num: 3
Candidate Starts for Mudpuppy_38:
(2, 29050), (3, 29086), (Start: 6 @29104 has 11 MA's),

Gene: Powerpuff_42 Start: 30441, Stop: 30584, Start Num: 6
Candidate Starts for Powerpuff_42:
(3, 30423), (Start: 6 @30441 has 11 MA's),

Gene: Reedo_39 Start: 27558, Stop: 27728, Start Num: 6
Candidate Starts for Reedo_39:
(2, 27504), (Start: 6 @27558 has 11 MA's), (11, 27645),

Gene: Simpson_42 Start: 29357, Stop: 29500, Start Num: 6
Candidate Starts for Simpson_42:
(1, 29294), (2, 29303), (3, 29339), (Start: 6 @29357 has 11 MA's),

Gene: Snek_39 Start: 27868, Stop: 28032, Start Num: 8
Candidate Starts for Snek_39:
(3, 27847), (Start: 8 @27868 has 5 MA's), (13, 27979),

Gene: Sue2_41 Start: 29872, Stop: 30054, Start Num: 8
Candidate Starts for Sue2_41:
(Start: 8 @29872 has 5 MA's), (11, 29950), (12, 29974), (13, 29983),

Gene: Tbone_39 Start: 29152, Stop: 29295, Start Num: 6
Candidate Starts for Tbone_39:
(2, 29098), (3, 29134), (Start: 6 @29152 has 11 MA's),

Gene: Tutumahutu_41 Start: 29305, Stop: 29466, Start Num: 3
Candidate Starts for Tutumahutu_41:
(2, 29269), (3, 29305), (Start: 6 @29323 has 11 MA's),

Gene: Tweety19_39 Start: 27868, Stop: 28032, Start Num: 8
Candidate Starts for Tweety19_39:
(3, 27847), (Start: 8 @27868 has 5 MA's), (13, 27979),

Gene: VResidence_40 Start: 28789, Stop: 28944, Start Num: 8
Candidate Starts for VResidence_40:
(2, 28735), (Start: 8 @28789 has 5 MA's), (11, 28867), (13, 28900),

Gene: Warda_40 Start: 29328, Stop: 29471, Start Num: 6
Candidate Starts for Warda_40:
(2, 29274), (3, 29310), (Start: 6 @29328 has 11 MA's),

Gene: Wildwest_39 Start: 28758, Stop: 28919, Start Num: 6
Candidate Starts for Wildwest_39:
(2, 28710), (3, 28746), (Start: 6 @28758 has 11 MA's), (11, 28845),

Gene: YesChef_40 Start: 29300, Stop: 29443, Start Num: 6
Candidate Starts for YesChef_40:
(3, 29282), (Start: 6 @29300 has 11 MA's),