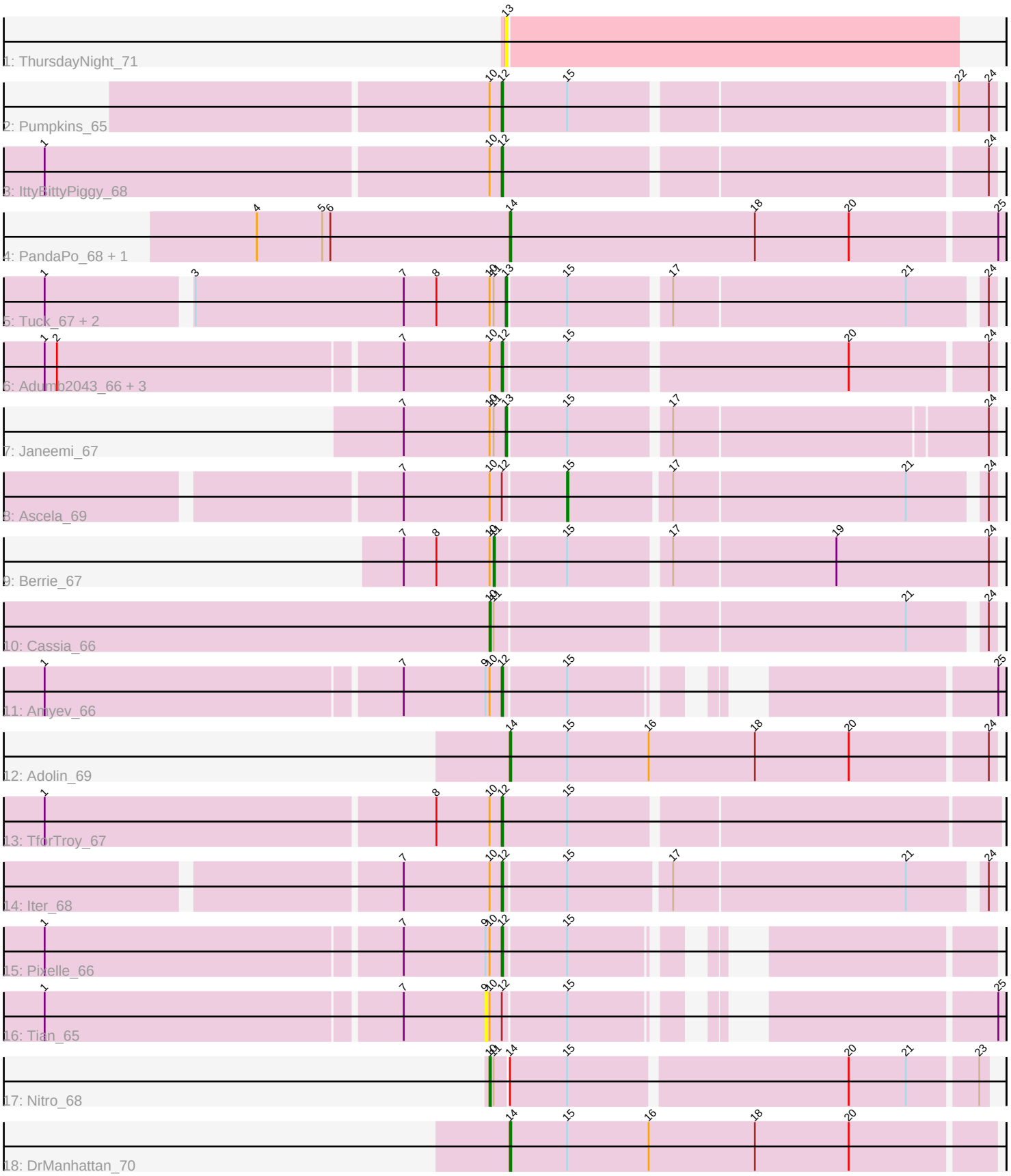
# Pham 311979


1: ThursdayNight_71
2: Pumpkins_65
3: IttyBittyPiggy_68
4: PandaPo_68 + 1
5: Tuck_67 + 2
6: Adumb2043_66 + 3
7: Janeemi_67
8: Ascela_69
9: Berrie_67
10: Cassia_66
11: Amyev_66
12: Adolin_69
13: TforTroy_67
14: Iter_68
15: Pixelle_66
16: Tian_65
17: Nitro_68
18: DrManhattan_70

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 311979 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311979 has 24 members, 7 are drafts.

Phages represented in each track:
• Track 1 : ThursdayNight_71
• Track 2 : Pumpkins_65
• Track 3 : IttyBittyPiggy_68
• Track 4 : PandaPo_68, MissSwiss_68
• Track 5 : Tuck_67, Phives_68, Community_67
• Track 6 : Adumb2043_66, Turab_66, Amploria_67, AEgle_65
• Track 7 : Janeemi_67
• Track 8 : Ascela_69
• Track 9 : Berrie_67
• Track 10 : Cassia_66
• Track 11 : Amyev_66
• Track 12 : Adolin_69
• Track 13 : TforTroy_67
• Track 14 : Iter_68
• Track 15 : Pixelle_66
• Track 16 : Tian_65
• Track 17 : Nitro_68
• Track 18 : DrManhattan_70

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

The start number called the most often in the published annotations is 12, it was called in 7 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_65, Adumb2043_66, Amploria_67, Amyev_66, Iter_68, IttyBittyPiggy_68, Pixelle_66, Pumpkins_65, TforTroy_67, Turab_66,

Genes that have the "Most Annotated" start but do not call it:
• Ascela_69, Tian_65,

Genes that do not have the "Most Annotated" start:
• Adolin_69, Berrie_67, Cassia_66, Community_67, DrManhattan_70, Janeemi_67, MissSwiss_68, Nitro_68, PandaPo_68, Phives_68, ThursdayNight_71, Tuck_67,

**Summary by start number:**

Start 9:
• Found in 3 of 24 ( 12.5% ) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Tian_65 (AZ1),

Start 10:
• Found in 19 of 24 ( 79.2% ) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 10.5% of time when present
• Phage (with cluster) where this start called: Cassia_66 (AZ1), Nitro_68 (AZ1),

Start 11:
• Found in 7 of 24 ( 29.2% ) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Berrie_67 (AZ1),

Start 12:
• Found in 12 of 24 ( 50.0% ) of genes in pham
• Manual Annotations of this start: 7 of 17
• Called 83.3% of time when present
• Phage (with cluster) where this start called: AEgle_65 (AZ1), Adumb2043_66 (AZ1), Amploria_67 (AZ1), Amyev_66 (AZ1), Iter_68 (AZ1), IttyBittyPiggy_68 (AZ1), Pixelle_66 (AZ1), Pumpkins_65 (AZ1), TforTroy_67 (AZ1), Turab_66 (AZ1),

Start 13:
• Found in 5 of 24 ( 20.8% ) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Community_67 (AZ1), Janeemi_67 (AZ1), Phives_68 (AZ1), ThursdayNight_71 (AZ), Tuck_67 (AZ1),

Start 14:
• Found in 5 of 24 ( 20.8% ) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Adolin_69 (AZ1), DrManhattan_70 (AZ1), MissSwiss_68 (AZ1), PandaPo_68 (AZ1),

Start 15:
• Found in 19 of 24 ( 79.2% ) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Ascela_69 (AZ1),

**Summary by clusters:**

There are 2 clusters represented in this pham: AZ1, AZ,

Info for manual annotations of cluster AZ1:
•Start number 10 was manually annotated 2 times for cluster AZ1.
•Start number 11 was manually annotated 1 time for cluster AZ1.
•Start number 12 was manually annotated 7 times for cluster AZ1.
•Start number 13 was manually annotated 3 times for cluster AZ1.
•Start number 14 was manually annotated 3 times for cluster AZ1.
•Start number 15 was manually annotated 1 time for cluster AZ1.

### *Gene Information:*

Gene: AEgle_65 Start: 41928, Stop: 42272, Start Num: 12
Candidate Starts for AEgle_65:
(1, 41601), (2, 41610), (7, 41856), (Start: 10 @41919 has 2 MA's), (Start: 12 @41928 has 7 MA's), (Start: 15 @41973 has 1 MA's), (20, 42171), (24, 42267),

Gene: Adolin_69 Start: 41878, Stop: 42228, Start Num: 14
Candidate Starts for Adolin_69:
(Start: 14 @41878 has 3 MA's), (Start: 15 @41920 has 1 MA's), (16, 41980), (18, 42058), (20, 42127), (24, 42223),

Gene: Adumb2043_66 Start: 41952, Stop: 42296, Start Num: 12
Candidate Starts for Adumb2043_66:
(1, 41625), (2, 41634), (7, 41880), (Start: 10 @41943 has 2 MA's), (Start: 12 @41952 has 7 MA's), (Start: 15 @41997 has 1 MA's), (20, 42195), (24, 42291),

Gene: Amploria_67 Start: 42132, Stop: 42476, Start Num: 12
Candidate Starts for Amploria_67:
(1, 41805), (2, 41814), (7, 42060), (Start: 10 @42123 has 2 MA's), (Start: 12 @42132 has 7 MA's), (Start: 15 @42177 has 1 MA's), (20, 42375), (24, 42471),

Gene: Amyev_66 Start: 43156, Stop: 43452, Start Num: 12
Candidate Starts for Amyev_66:
(1, 42829), (7, 43084), (9, 43144), (Start: 10 @43147 has 2 MA's), (Start: 12 @43156 has 7 MA's), (Start: 15 @43201 has 1 MA's), (25, 43447),

Gene: Ascela_69 Start: 43040, Stop: 43333, Start Num: 15
Candidate Starts for Ascela_69:
(7, 42923), (Start: 10 @42986 has 2 MA's), (Start: 12 @42995 has 7 MA's), (Start: 15 @43040 has 1 MA's), (17, 43112), (21, 43280), (24, 43328),

Gene: Berrie_67 Start: 42601, Stop: 42954, Start Num: 11
Candidate Starts for Berrie_67:
(7, 42535), (8, 42559), (Start: 10 @42598 has 2 MA's), (Start: 11 @42601 has 1 MA's), (Start: 15 @42652 has 1 MA's), (17, 42721), (19, 42838), (24, 42949),

Gene: Cassia_66 Start: 42270, Stop: 42614, Start Num: 10
Candidate Starts for Cassia_66:
(Start: 10 @42270 has 2 MA's), (Start: 11 @42273 has 1 MA's), (21, 42561), (24, 42609),

Gene: Community_67 Start: 42884, Stop: 43216, Start Num: 13

Candidate Starts for Community_67:
(1, 42557), (3, 42656), (7, 42809), (8, 42833), (Start: 10 @42872 has 2 MA's), (Start: 11 @42875 has 1 MA's), (Start: 13 @42884 has 3 MA's), (Start: 15 @42926 has 1 MA's), (17, 42995), (21, 43163), (24, 43211),

Gene: DrManhattan_70 Start: 41432, Stop: 41782, Start Num: 14
Candidate Starts for DrManhattan_70:
(Start: 14 @41432 has 3 MA's), (Start: 15 @41474 has 1 MA's), (16, 41534), (18, 41612), (20, 41681),

Gene: Iter_68 Start: 42766, Stop: 43104, Start Num: 12
Candidate Starts for Iter_68:
(7, 42694), (Start: 10 @42757 has 2 MA's), (Start: 12 @42766 has 7 MA's), (Start: 15 @42811 has 1 MA's), (17, 42883), (21, 43051), (24, 43099),

Gene: IttyBittyPiggy_68 Start: 41000, Stop: 41344, Start Num: 12
Candidate Starts for IttyBittyPiggy_68:
(1, 40670), (Start: 10 @40991 has 2 MA's), (Start: 12 @41000 has 7 MA's), (24, 41339),

Gene: Janeemi_67 Start: 42677, Stop: 43015, Start Num: 13
Candidate Starts for Janeemi_67:
(7, 42602), (Start: 10 @42665 has 2 MA's), (Start: 11 @42668 has 1 MA's), (Start: 13 @42677 has 3 MA's), (Start: 15 @42719 has 1 MA's), (17, 42788), (24, 43010),

Gene: MissSwiss_68 Start: 41433, Stop: 41789, Start Num: 14
Candidate Starts for MissSwiss_68:
(4, 41250), (5, 41298), (6, 41304), (Start: 14 @41433 has 3 MA's), (18, 41613), (20, 41682), (25, 41784),

Gene: Nitro_68 Start: 43178, Stop: 43525, Start Num: 10
Candidate Starts for Nitro_68:
(Start: 10 @43178 has 2 MA's), (Start: 11 @43181 has 1 MA's), (Start: 14 @43190 has 3 MA's), (Start: 15 @43232 has 1 MA's), (20, 43430), (21, 43472), (23, 43520),

Gene: PandaPo_68 Start: 41440, Stop: 41796, Start Num: 14
Candidate Starts for PandaPo_68:
(4, 41257), (5, 41305), (6, 41311), (Start: 14 @41440 has 3 MA's), (18, 41620), (20, 41689), (25, 41791),

Gene: Phives_68 Start: 42999, Stop: 43331, Start Num: 13
Candidate Starts for Phives_68:
(1, 42672), (3, 42771), (7, 42924), (8, 42948), (Start: 10 @42987 has 2 MA's), (Start: 11 @42990 has 1 MA's), (Start: 13 @42999 has 3 MA's), (Start: 15 @43041 has 1 MA's), (17, 43110), (21, 43278), (24, 43326),

Gene: Pixelle_66 Start: 43257, Stop: 43547, Start Num: 12
Candidate Starts for Pixelle_66:
(1, 42930), (7, 43185), (9, 43245), (Start: 10 @43248 has 2 MA's), (Start: 12 @43257 has 7 MA's), (Start: 15 @43302 has 1 MA's),

Gene: Pumpkins_65 Start: 42797, Stop: 43141, Start Num: 12
Candidate Starts for Pumpkins_65:
(Start: 10 @42788 has 2 MA's), (Start: 12 @42797 has 7 MA's), (Start: 15 @42845 has 1 MA's), (22, 43115), (24, 43136),

Gene: TforTroy_67 Start: 42451, Stop: 42801, Start Num: 12
Candidate Starts for TforTroy_67:
(1, 42121), (8, 42403), (Start: 10 @42442 has 2 MA's), (Start: 12 @42451 has 7 MA's), (Start: 15 @42499 has 1 MA's),

Gene: ThursdayNight_71 Start: 44398, Stop: 44727, Start Num: 13
Candidate Starts for ThursdayNight_71:
(Start: 13 @44398 has 3 MA's),

Gene: Tian_65 Start: 43143, Stop: 43451, Start Num: 9
Candidate Starts for Tian_65:
(1, 42828), (7, 43083), (9, 43143), (Start: 10 @43146 has 2 MA's), (Start: 12 @43155 has 7 MA's), (Start: 15 @43200 has 1 MA's), (25, 43446),

Gene: Tuck_67 Start: 42787, Stop: 43119, Start Num: 13
Candidate Starts for Tuck_67:
(1, 42460), (3, 42559), (7, 42712), (8, 42736), (Start: 10 @42775 has 2 MA's), (Start: 11 @42778 has 1 MA's), (Start: 13 @42787 has 3 MA's), (Start: 15 @42829 has 1 MA's), (17, 42898), (21, 43066), (24, 43114),

Gene: Turab_66 Start: 41972, Stop: 42316, Start Num: 12
Candidate Starts for Turab_66:
(1, 41645), (2, 41654), (7, 41900), (Start: 10 @41963 has 2 MA's), (Start: 12 @41972 has 7 MA's), (Start: 15 @42017 has 1 MA's), (20, 42215), (24, 42311),