Pham 280904

1: BlueShadow_41

2: Windest_42

3: Anekin_38 + 1

4: SpicyFrank_41

5: Hestia_40

6: Richie_42

7: Lawnathon_42

8: Tiff81_37

9: AdaS_37

10: Sporco_42

11: MUWow_41

12: Isolde_43 + 1

13: JanetJ_49

14: Hereford_72

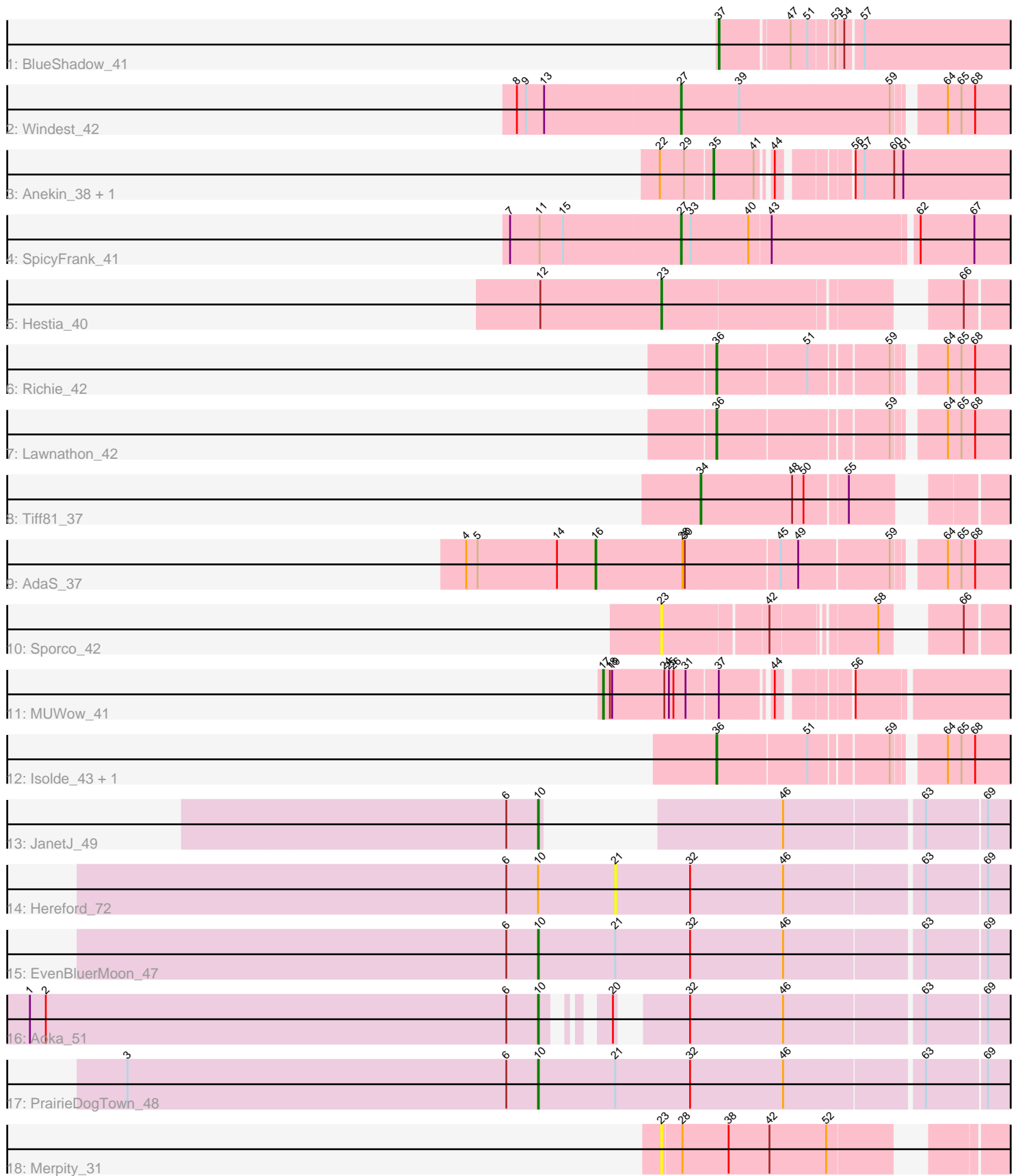15: EvenBluerMoon_47

16: Adka_51

17: PrairieDogTown_48

18: Merpity_31

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 280904 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280904 has 20 members, 5 are drafts.

Phages represented in each track:
• Track 1 : BlueShadow_41
• Track 2 : Windest_42
• Track 3 : Anekin_38, DarwinJr_44
• Track 4 : SpicyFrank_41
• Track 5 : Hestia_40
• Track 6 : Richie_42
• Track 7 : Lawnathon_42
• Track 8 : Tiff81_37
• Track 9 : AdaS_37
• Track 10 : Sporco_42
• Track 11 : MUWow_41
• Track 12 : Isolde_43, Mapleville_41
• Track 13 : JanetJ_49
• Track 14 : Hereford_72
• Track 15 : EvenBluerMoon_47
• Track 16 : Aoka_51
• Track 17 : PrairieDogTown_48
• Track 18 : Merpity_31

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

The start number called the most often in the published annotations is 10, it was called in 4 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aoka_51, EvenBluerMoon_47, JanetJ_49, PrairieDogTown_48,

Genes that have the "Most Annotated" start but do not call it:
• Hereford_72,

Genes that do not have the "Most Annotated" start:
• AdaS_37, Anekin_38, BlueShadow_41, DarwinJr_44, Hestia_40, Isolde_43, Lawnathon_42, MUWow_41, Mapleville_41, Merpity_31, Richie_42, SpicyFrank_41, Sporco_42, Tiff81_37, Windest_42,

Summary by start number:

Start 10:
• Found in 5 of 20 (25.0%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Aoka_51 (FO), EvenBluerMoon_47 (FO), JanetJ_49 (FO), PrairieDogTown_48 (FO),

Start 16:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AdaS_37 (AY),

Start 17:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MUWow_41 (AY),

Start 21:
• Found in 3 of 20 (15.0%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Hereford_72 (FO),

Start 23:
• Found in 3 of 20 (15.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hestia_40 (AY), Merpity_31 (FQ), Sporco_42 (AY),

Start 27:
• Found in 2 of 20 (10.0%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SpicyFrank_41 (AY), Windest_42 (AY),

Start 34:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tiff81_37 (AY),

Start 35:
• Found in 2 of 20 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anekin_38 (AY), DarwinJr_44 (AY),

Start 36:
• Found in 4 of 20 (20.0%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Isolde_43 (AY), Lawnathon_42 (AY), Mapleville_41 (AY), Richie_42 (AY),

Start 37:
• Found in 2 of 20 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BlueShadow_41 (AY),

Summary by clusters:

There are 3 clusters represented in this pham: AY, FQ, FO,

Info for manual annotations of cluster AY:
•Start number 16 was manually annotated 1 time for cluster AY.
•Start number 17 was manually annotated 1 time for cluster AY.
•Start number 23 was manually annotated 1 time for cluster AY.
•Start number 27 was manually annotated 2 times for cluster AY.
•Start number 34 was manually annotated 1 time for cluster AY.
•Start number 35 was manually annotated 1 time for cluster AY.
•Start number 36 was manually annotated 3 times for cluster AY.
•Start number 37 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FO:
•Start number 10 was manually annotated 4 times for cluster FO.

Gene Information:

Gene: AdaS_37 Start: 26390, Stop: 25854, Start Num: 16
Candidate Starts for AdaS_37:
(4, 26561), (5, 26546), (14, 26441), (Start: 16 @26390 has 1 MA's), (28, 26276), (30, 26273), (45, 26153), (49, 26132), (59, 26018), (64, 25967), (65, 25949), (68, 25931),

Gene: Anekin_38 Start: 27545, Stop: 27171, Start Num: 35
Candidate Starts for Anekin_38:
(22, 27608), (29, 27578), (Start: 35 @27545 has 1 MA's), (41, 27494), (44, 27482), (56, 27407), (57, 27395), (60, 27356), (61, 27344),

Gene: Aoka_51 Start: 34831, Stop: 35385, Start Num: 10
Candidate Starts for Aoka_51:
(1, 34159), (2, 34180), (6, 34789), (Start: 10 @34831 has 4 MA's), (20, 34879), (32, 34945), (46, 35068), (63, 35242), (69, 35317),

Gene: BlueShadow_41 Start: 28230, Stop: 27841, Start Num: 37
Candidate Starts for BlueShadow_41:
(Start: 37 @28230 has 1 MA's), (47, 28146), (51, 28125), (53, 28095), (54, 28086), (57, 28065),

Gene: DarwinJr_44 Start: 29257, Stop: 28883, Start Num: 35
Candidate Starts for DarwinJr_44:
(22, 29320), (29, 29290), (Start: 35 @29257 has 1 MA's), (41, 29206), (44, 29194), (56, 29119), (57, 29107), (60, 29068), (61, 29056),

Gene: EvenBluerMoon_47 Start: 34191, Stop: 34832, Start Num: 10
Candidate Starts for EvenBluerMoon_47:
(6, 34149), (Start: 10 @34191 has 4 MA's), (21, 34293), (32, 34392), (46, 34515), (63, 34689), (69, 34764),

Gene: Hereford_72 Start: 34037, Stop: 34576, Start Num: 21
Candidate Starts for Hereford_72:
(6, 33893), (Start: 10 @33935 has 4 MA's), (21, 34037), (32, 34136), (46, 34259), (63, 34433), (69, 34508),

Gene: Hestia_40 Start: 27726, Stop: 27310, Start Num: 23
Candidate Starts for Hestia_40:
(12, 27885), (Start: 23 @27726 has 1 MA's), (66, 27396),

Gene: Isolde_43 Start: 28418, Stop: 28056, Start Num: 36
Candidate Starts for Isolde_43:
(Start: 36 @28418 has 3 MA's), (51, 28310), (59, 28220), (64, 28169), (65, 28151), (68, 28133),

Gene: JanetJ_49 Start: 35354, Stop: 35842, Start Num: 10
Candidate Starts for JanetJ_49:
(6, 35312), (Start: 10 @35354 has 4 MA's), (46, 35525), (63, 35699), (69, 35774),

Gene: Lawnathon_42 Start: 28163, Stop: 27801, Start Num: 36
Candidate Starts for Lawnathon_42:
(Start: 36 @28163 has 3 MA's), (59, 27965), (64, 27914), (65, 27896), (68, 27878),

Gene: MUWow_41 Start: 28531, Stop: 28031, Start Num: 17
Candidate Starts for MUWow_41:
(Start: 17 @28531 has 1 MA's), (18, 28522), (19, 28519), (24, 28450), (25, 28444), (26, 28438), (31, 28423), (Start: 37 @28384 has 1 MA's), (44, 28327), (56, 28252),

Gene: Mapleville_41 Start: 28242, Stop: 27880, Start Num: 36
Candidate Starts for Mapleville_41:
(Start: 36 @28242 has 3 MA's), (51, 28134), (59, 28044), (64, 27993), (65, 27975), (68, 27957),

Gene: Merpity_31 Start: 22847, Stop: 22416, Start Num: 23
Candidate Starts for Merpity_31:
(Start: 23 @22847 has 1 MA's), (28, 22823), (38, 22763), (42, 22712), (52, 22637),

Gene: PrairieDogTown_48 Start: 34193, Stop: 34834, Start Num: 10
Candidate Starts for PrairieDogTown_48:
(3, 33650), (6, 34151), (Start: 10 @34193 has 4 MA's), (21, 34295), (32, 34394), (46, 34517), (63, 34691), (69, 34766),

Gene: Richie_42 Start: 28324, Stop: 27962, Start Num: 36
Candidate Starts for Richie_42:
(Start: 36 @28324 has 3 MA's), (51, 28216), (59, 28126), (64, 28075), (65, 28057), (68, 28039),

Gene: SpicyFrank_41 Start: 28170, Stop: 27721, Start Num: 27
Candidate Starts for SpicyFrank_41:
(7, 28392), (11, 28353), (15, 28323), (Start: 27 @28170 has 2 MA's), (33, 28158), (40, 28086), (43, 28059), (62, 27876), (67, 27807),

Gene: Sporco_42 Start: 28336, Stop: 27938, Start Num: 23
Candidate Starts for Sporco_42:
(Start: 23 @28336 has 1 MA's), (42, 28210), (58, 28087), (66, 28024),

Gene: Tiff81_37 Start: 25801, Stop: 25427, Start Num: 34
Candidate Starts for Tiff81_37:
(Start: 34 @25801 has 1 MA's), (48, 25684), (50, 25669), (55, 25618),

Gene: Windest_42 Start: 27278, Stop: 26847, Start Num: 27
Candidate Starts for Windest_42:
(8, 27491), (9, 27479), (13, 27455), (Start: 27 @27278 has 2 MA's), (39, 27206), (59, 27011), (64, 26960), (65, 26942), (68, 26924),