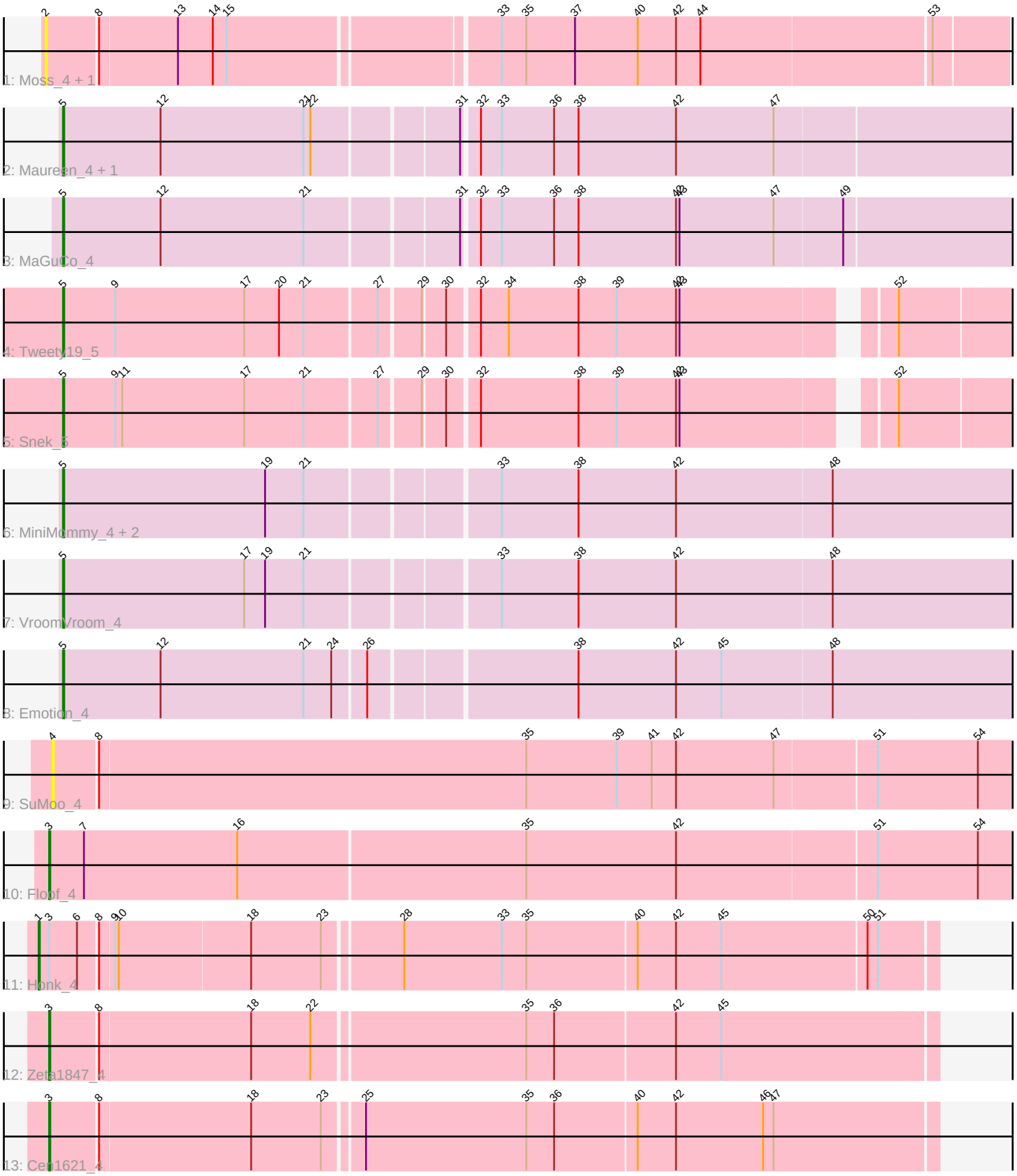
Pham 171829


1: Moss_4 + 1
2: Maureen_4 + 1
3: MaGuCo_4
4: Tweety19_5
5: Snek_6
6: MiniMommy_4 + 2
7: VroomVroom_4
8: Emotion_4
9: SuMoo_4
10: Floof_4
11: Honk_4
12: Zeta1847_4
13: Cen1621_4

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 171829 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171829 has 17 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Moss_4, Halsey_4
• Track 2 : Maureen_4, Liebe_4
• Track 3 : MaGuCo_4
• Track 4 : Tweety19_5
• Track 5 : Snek_5
• Track 6 : MiniMommy_4, JasmineDragon_4, ShakeItOph_4
• Track 7 : VroomVroom_4
• Track 8 : Emotion_4
• Track 9 : SuMoo_4
• Track 10 : Floof_4
• Track 11 : Honk_4
• Track 12 : Zeta1847_4
• Track 13 : Cen1621_4

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

The start number called the most often in the published annotations is 5, it was called in 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Emotion_4, JasmineDragon_4, Liebe_4, MaGuCo_4, Maureen_4, MiniMommy_4, ShakeItOph_4, Snek_5, Tweety19_5, VroomVroom_4,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Cen1621_4, Floof_4, Halsey_4, Honk_4, Moss_4, SuMoo_4, Zeta1847_4,

Summary by start number:

Start 1:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 12

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Honk_4 (EH),

Start 2:
• Found in 2 of 17 (11.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Halsey_4 (AZ), Moss_4 (AZ),

Start 3:
• Found in 4 of 17 (23.5%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Cen1621_4 (EH), Floof_4 (EH), Zeta1847_4 (EH),

Start 4:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SuMoo_4 (EH),

Start 5:
• Found in 10 of 17 (58.8%) of genes in pham
• Manual Annotations of this start: 8 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Emotion_4 (AZ4), JasmineDragon_4 (AZ4), Liebe_4 (AZ2), MaGuCo_4 (AZ2), Maureen_4 (AZ2), MiniMommy_4 (AZ4), ShakeItOph_4 (AZ4), Snek_5 (AZ3), Tweety19_5 (AZ3), VroomVroom_4 (AZ4),

Summary by clusters:

There are 5 clusters represented in this pham: AZ2, AZ3, AZ4, EH, AZ,

Info for manual annotations of cluster AZ2:
•Start number 5 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 5 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 5 was manually annotated 3 times for cluster AZ4.

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

Gene Information:

Gene: Cen1621_4 Start: 3740, Stop: 4483, Start Num: 3

Candidate Starts for Cen1621_4:
(Start: 3 @3740 has 3 MA's), (8, 3779), (18, 3908), (23, 3968), (25, 3998), (35, 4136), (36, 4160), (40, 4229), (42, 4262), (46, 4337), (47, 4346),

Gene: Emotion_4 Start: 3677, Stop: 4474, Start Num: 5
Candidate Starts for Emotion_4:
(Start: 5 @3677 has 8 MA's), (12, 3761), (21, 3884), (24, 3908), (26, 3935), (38, 4103), (42, 4187), (45, 4226), (48, 4319),

Gene: Floof_4 Start: 4029, Stop: 4892, Start Num: 3
Candidate Starts for Floof_4:
(Start: 3 @4029 has 3 MA's), (7, 4059), (16, 4191), (35, 4434), (42, 4563), (51, 4731), (54, 4815),

Gene: Halsey_4 Start: 3879, Stop: 4673, Start Num: 2
Candidate Starts for Halsey_4:
(2, 3879), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (33, 4248), (35, 4269), (37, 4311), (40, 4365), (42, 4398), (44, 4419), (53, 4611),

Gene: Honk_4 Start: 3779, Stop: 4525, Start Num: 1
Candidate Starts for Honk_4:
(Start: 1 @3779 has 1 MA's), (Start: 3 @3788 has 3 MA's), (6, 3812), (8, 3827), (9, 3839), (10, 3842), (18, 3953), (23, 4013), (28, 4076), (33, 4160), (35, 4181), (40, 4274), (42, 4307), (45, 4346), (50, 4469), (51, 4478),

Gene: JasmineDragon_4 Start: 3667, Stop: 4464, Start Num: 5
Candidate Starts for JasmineDragon_4:
(Start: 5 @3667 has 8 MA's), (19, 3841), (21, 3874), (33, 4027), (38, 4093), (42, 4177), (48, 4309),

Gene: Liebe_4 Start: 3813, Stop: 4607, Start Num: 5
Candidate Starts for Liebe_4:
(Start: 5 @3813 has 8 MA's), (12, 3897), (21, 4020), (22, 4026), (31, 4143), (32, 4155), (33, 4173), (36, 4218), (38, 4239), (42, 4323), (47, 4407),

Gene: MaGuCo_4 Start: 3672, Stop: 4466, Start Num: 5
Candidate Starts for MaGuCo_4:
(Start: 5 @3672 has 8 MA's), (12, 3756), (21, 3879), (31, 4002), (32, 4014), (33, 4032), (36, 4077), (38, 4098), (42, 4182), (43, 4185), (47, 4266), (49, 4323),

Gene: Maureen_4 Start: 3813, Stop: 4607, Start Num: 5
Candidate Starts for Maureen_4:
(Start: 5 @3813 has 8 MA's), (12, 3897), (21, 4020), (22, 4026), (31, 4143), (32, 4155), (33, 4173), (36, 4218), (38, 4239), (42, 4323), (47, 4407),

Gene: MiniMommy_4 Start: 3667, Stop: 4464, Start Num: 5
Candidate Starts for MiniMommy_4:
(Start: 5 @3667 has 8 MA's), (19, 3841), (21, 3874), (33, 4027), (38, 4093), (42, 4177), (48, 4309),

Gene: Moss_4 Start: 3879, Stop: 4673, Start Num: 2
Candidate Starts for Moss_4:
(2, 3879), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (33, 4248), (35, 4269), (37, 4311), (40, 4365), (42, 4398), (44, 4419), (53, 4611),

Gene: ShakeItOph_4 Start: 3667, Stop: 4464, Start Num: 5

Candidate Starts for ShakeItOph_4:
(Start: 5 @3667 has 8 MA's), (19, 3841), (21, 3874), (33, 4027), (38, 4093), (42, 4177), (48, 4309),

Gene: Snek_5 Start: 4503, Stop: 5270, Start Num: 5
Candidate Starts for Snek_5:
(Start: 5 @4503 has 8 MA's), (9, 4548), (11, 4554), (17, 4659), (21, 4710), (27, 4770), (29, 4803), (30, 4821), (32, 4845), (38, 4929), (39, 4962), (42, 5013), (43, 5016), (52, 5175),

Gene: SuMoo_4 Start: 3785, Stop: 4639, Start Num: 4
Candidate Starts for SuMoo_4:
(4, 3785), (8, 3821), (35, 4187), (39, 4265), (41, 4295), (42, 4316), (47, 4400), (51, 4484), (54, 4568),

Gene: Tweety19_5 Start: 4503, Stop: 5270, Start Num: 5
Candidate Starts for Tweety19_5:
(Start: 5 @4503 has 8 MA's), (9, 4548), (17, 4659), (20, 4689), (21, 4710), (27, 4770), (29, 4803), (30, 4821), (32, 4845), (34, 4869), (38, 4929), (39, 4962), (42, 5013), (43, 5016), (52, 5175),

Gene: VroomVroom_4 Start: 3676, Stop: 4473, Start Num: 5
Candidate Starts for VroomVroom_4:
(Start: 5 @3676 has 8 MA's), (17, 3832), (19, 3850), (21, 3883), (33, 4036), (38, 4102), (42, 4186), (48, 4318),

Gene: Zeta1847_4 Start: 3665, Stop: 4408, Start Num: 3
Candidate Starts for Zeta1847_4:
(Start: 3 @3665 has 3 MA's), (8, 3704), (18, 3833), (22, 3884), (35, 4061), (36, 4085), (42, 4187), (45, 4226),