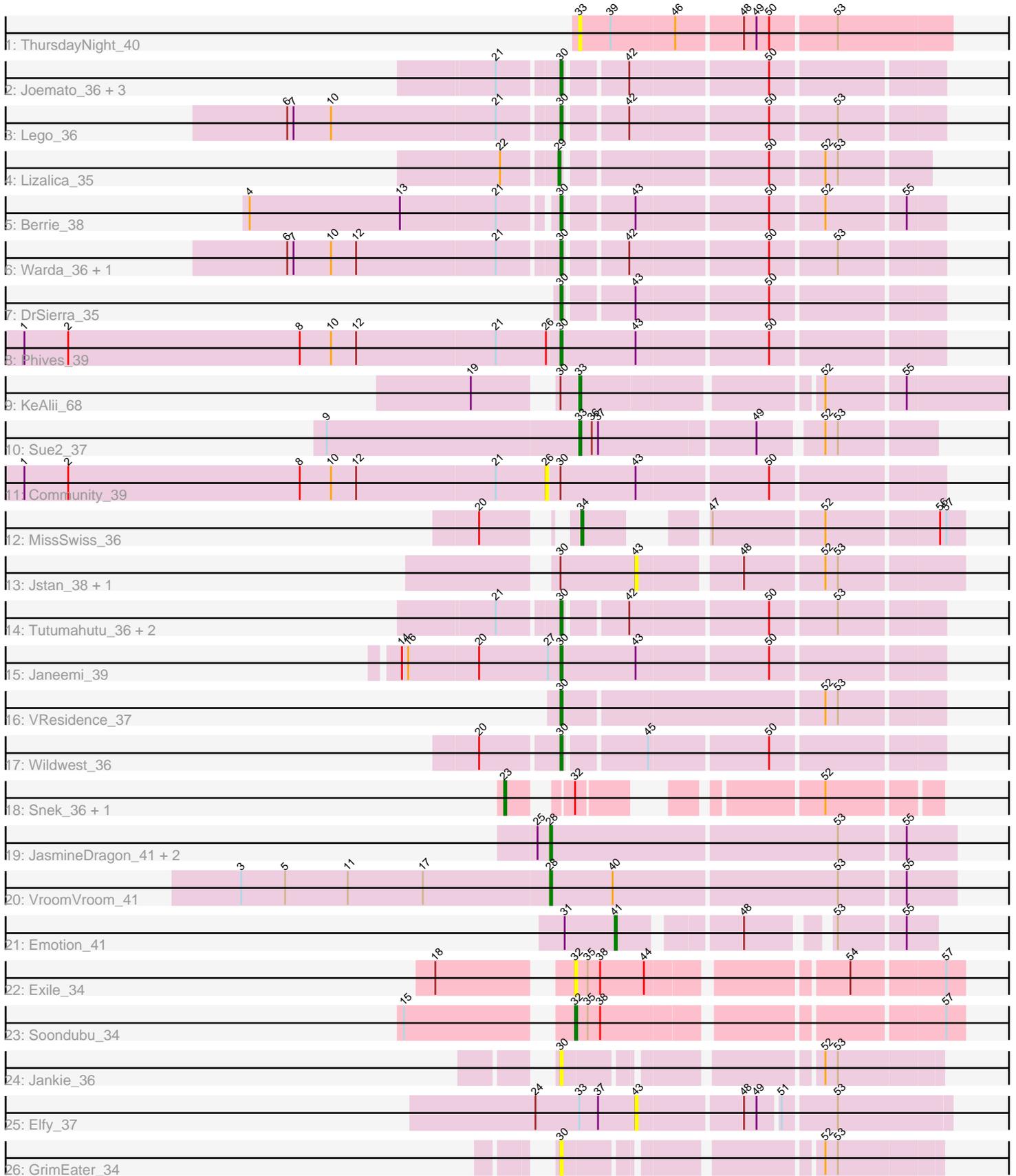# Pham 284010

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 284010 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284010 has 36 members, 9 are drafts.

Phages represented in each track:
- Track 1 : ThursdayNight_40
- Track 2 : Joemato_36, JohnDoe_36, Simpson_38, Cyan_36
- Track 3 : Lego_36
- Track 4 : Lizalica_35
- Track 5 : Berrie_38
- Track 6 : Warda_36, Tbone_35
- Track 7 : DrSierra_35
- Track 8 : Phives_39
- Track 9 : KeAlii_68
- Track 10 : Sue2_37
- Track 11 : Community_39
- Track 12 : MissSwiss_36
- Track 13 : Jstan_38, Skelbel_37
- Track 14 : Tutumahutu_36, Kaylissa_36, YesChef_36
- Track 15 : Janeemi_39
- Track 16 : VResidence_37
- Track 17 : Wildwest_36
- Track 18 : Snek_36, Tweety19_36
- Track 19 : JasmineDragon_41, ShakeItOph_41, MiniMommy_40
- Track 20 : VroomVroom_41
- Track 21 : Emotion_41
- Track 22 : Exile_34
- Track 23 : Soondubu_34
- Track 24 : Jankie_36
- Track 25 : Elfy_37
- Track 26 : GrimEater_34

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

The start number called the most often in the published annotations is 30, it was called in 15 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Berrie_38, Cyan_36, DrSierra_35, GrimEater_34, Janeemi_39, Jankie_36, Joemato_36, JohnDoe_36, Kaylissa_36, Lego_36, Phives_39, Simpson_38, Tbone_35, Tutumahutu_36, VResidence_37, Warda_36, Wildwest_36, YesChef_36,

Genes that have the "Most Annotated" start but do not call it:
• Community_39, Jstan_38, KeAlii_68, Skelbel_37,

Genes that do not have the "Most Annotated" start:
• Elfy_37, Emotion_41, Exile_34, JasmineDragon_41, Lizalica_35, MiniMommy_40, MissSwiss_36, ShakeItOph_41, Snek_36, Soondubu_34, Sue2_37, ThursdayNight_40, Tweety19_36, VroomVroom_41,

Summary by start number:

Start 23:
• Found in 2 of 36 (5.6%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Snek_36 (AZ3), Tweety19_36 (AZ3),

Start 26:
• Found in 2 of 36 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Community_39 (AZ1),

Start 28:
• Found in 4 of 36 (11.1%) of genes in pham
• Manual Annotations of this start: 4 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JasmineDragon_41 (AZ4), MiniMommy_40 (AZ4), ShakeItOph_41 (AZ4), VroomVroom_41 (AZ4),

Start 29:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lizalica_35 (AZ1),

Start 30:
• Found in 22 of 36 (61.1%) of genes in pham
• Manual Annotations of this start: 15 of 27
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Berrie_38 (AZ1), Cyan_36 (AZ1), DrSierra_35 (AZ1), GrimEater_34 (FP), Janeemi_39 (AZ1), Jankie_36 (FP), Joemato_36 (AZ1), JohnDoe_36 (AZ1), Kaylissa_36 (AZ1), Lego_36 (AZ1), Phives_39 (AZ1), Simpson_38 (AZ1), Tbone_35 (AZ1), Tutumahutu_36 (AZ1), VResidence_37 (AZ1), Warda_36 (AZ1), Wildwest_36 (AZ1), YesChef_36 (AZ1),

Start 32:
• Found in 4 of 36 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 50.0% of time when present

• Phage (with cluster) where this start called: Exile_34 (AZ6), Soondubu_34 (AZ6),

Start 33:
• Found in 4 of 36 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 75.0% of time when present
• Phage (with cluster) where this start called: KeAlii_68 (AZ1), Sue2_37 (AZ1), ThursdayNight_40 (AZ),

Start 34:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MissSwiss_36 (AZ1),

Start 41:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Emotion_41 (AZ4),

Start 43:
• Found in 8 of 36 (22.2%) of genes in pham
• No Manual Annotations of this start.
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Elfy_37 (FP), Jstan_38 (AZ1), Skelbel_37 (AZ1),

Summary by clusters:

There are 6 clusters represented in this pham: FP, AZ, AZ1, AZ3, AZ4, AZ6,

Info for manual annotations of cluster AZ1:
•Start number 29 was manually annotated 1 time for cluster AZ1.
•Start number 30 was manually annotated 15 times for cluster AZ1.
•Start number 33 was manually annotated 2 times for cluster AZ1.
•Start number 34 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ3:
•Start number 23 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 28 was manually annotated 4 times for cluster AZ4.
•Start number 41 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster AZ6:
•Start number 32 was manually annotated 1 time for cluster AZ6.

Gene Information:

Gene: Berrie_38 Start: 27347, Stop: 27180, Start Num: 30
Candidate Starts for Berrie_38:
(4, 27488), (13, 27416), (21, 27371), (Start: 30 @27347 has 15 MA's), (43, 27317), (50, 27257), (52, 27233), (55, 27197),

Gene: Community_39 Start: 28086, Stop: 27907, Start Num: 26
Candidate Starts for Community_39:
(1, 28335), (2, 28314), (8, 28203), (10, 28188), (12, 28176), (21, 28110), (26, 28086), (Start: 30 @28080 has 15 MA's), (43, 28044), (50, 27984),

Gene: Cyan_36 Start: 25787, Stop: 25620, Start Num: 30
Candidate Starts for Cyan_36:
(21, 25814), (Start: 30 @25787 has 15 MA's), (42, 25760), (50, 25697),

Gene: DrSierra_35 Start: 24646, Stop: 24479, Start Num: 30
Candidate Starts for DrSierra_35:
(Start: 30 @24646 has 15 MA's), (43, 24616), (50, 24556),

Gene: Elfy_37 Start: 25651, Stop: 25511, Start Num: 43
Candidate Starts for Elfy_37:
(24, 25699), (Start: 33 @25678 has 2 MA's), (37, 25669), (43, 25651), (48, 25603), (49, 25597), (51, 25588), (53, 25564),

Gene: Emotion_41 Start: 27364, Stop: 27236, Start Num: 41
Candidate Starts for Emotion_41:
(31, 27388), (Start: 41 @27364 has 1 MA's), (48, 27313), (53, 27280), (55, 27250),

Gene: Exile_34 Start: 27957, Stop: 27790, Start Num: 32
Candidate Starts for Exile_34:
(18, 28011), (Start: 32 @27957 has 1 MA's), (35, 27951), (38, 27945), (44, 27924), (54, 27840), (57, 27798),

Gene: GrimEater_34 Start: 24905, Stop: 24747, Start Num: 30
Candidate Starts for GrimEater_34:
(Start: 30 @24905 has 15 MA's), (52, 24800), (53, 24794),

Gene: Janeemi_39 Start: 28091, Stop: 27918, Start Num: 30
Candidate Starts for Janeemi_39:
(14, 28166), (16, 28163), (20, 28130), (27, 28097), (Start: 30 @28091 has 15 MA's), (43, 28055), (50, 27995),

Gene: Jankie_36 Start: 25085, Stop: 24927, Start Num: 30
Candidate Starts for Jankie_36:
(Start: 30 @25085 has 15 MA's), (52, 24980), (53, 24974),

Gene: JasmineDragon_41 Start: 27365, Stop: 27177, Start Num: 28
Candidate Starts for JasmineDragon_41:
(25, 27371), (Start: 28 @27365 has 4 MA's), (53, 27230), (55, 27200),

Gene: Joemato_36 Start: 25818, Stop: 25651, Start Num: 30
Candidate Starts for Joemato_36:
(21, 25845), (Start: 30 @25818 has 15 MA's), (42, 25791), (50, 25728),

Gene: JohnDoe_36 Start: 25809, Stop: 25642, Start Num: 30
Candidate Starts for JohnDoe_36:
(21, 25836), (Start: 30 @25809 has 15 MA's), (42, 25782), (50, 25719),

Gene: Jstan_38 Start: 27352, Stop: 27209, Start Num: 43
Candidate Starts for Jstan_38:
(Start: 30 @27388 has 15 MA's), (43, 27352), (48, 27307), (52, 27271), (53, 27265),

Gene: Kaylissa_36 Start: 25754, Stop: 25587, Start Num: 30
Candidate Starts for Kaylissa_36:
(21, 25781), (Start: 30 @25754 has 15 MA's), (42, 25727), (50, 25664), (53, 25634),

Gene: KeAlii_68 Start: 26504, Stop: 26304, Start Num: 33
Candidate Starts for KeAlii_68:
(19, 26543), (Start: 30 @26513 has 15 MA's), (Start: 33 @26504 has 2 MA's), (52, 26399), (55, 26363),

Gene: Lego_36 Start: 25700, Stop: 25533, Start Num: 30
Candidate Starts for Lego_36:
(6, 25826), (7, 25823), (10, 25805), (21, 25727), (Start: 30 @25700 has 15 MA's), (42, 25673), (50, 25610), (53, 25580),

Gene: Lizalica_35 Start: 25602, Stop: 25441, Start Num: 29
Candidate Starts for Lizalica_35:
(22, 25626), (Start: 29 @25602 has 1 MA's), (50, 25512), (52, 25488), (53, 25482),

Gene: MiniMommy_40 Start: 27366, Stop: 27178, Start Num: 28
Candidate Starts for MiniMommy_40:
(25, 27372), (Start: 28 @27366 has 4 MA's), (53, 27231), (55, 27201),

Gene: MissSwiss_36 Start: 24686, Stop: 24537, Start Num: 34
Candidate Starts for MissSwiss_36:
(20, 24716), (Start: 34 @24686 has 1 MA's), (47, 24650), (52, 24599), (56, 24548), (57, 24545),

Gene: Phives_39 Start: 27908, Stop: 27735, Start Num: 30
Candidate Starts for Phives_39:
(1, 28163), (2, 28142), (8, 28031), (10, 28016), (12, 28004), (21, 27938), (26, 27914), (Start: 30 @27908 has 15 MA's), (43, 27872), (50, 27812),

Gene: ShakeItOph_41 Start: 27365, Stop: 27177, Start Num: 28
Candidate Starts for ShakeItOph_41:
(25, 27371), (Start: 28 @27365 has 4 MA's), (53, 27230), (55, 27200),

Gene: Simpson_38 Start: 25818, Stop: 25651, Start Num: 30
Candidate Starts for Simpson_38:
(21, 25845), (Start: 30 @25818 has 15 MA's), (42, 25791), (50, 25728),

Gene: Skelbel_37 Start: 27352, Stop: 27209, Start Num: 43
Candidate Starts for Skelbel_37:
(Start: 30 @27388 has 15 MA's), (43, 27352), (48, 27307), (52, 27271), (53, 27265),

Gene: Snek_36 Start: 25070, Stop: 24912, Start Num: 23
Candidate Starts for Snek_36:
(Start: 23 @25070 has 2 MA's), (Start: 32 @25049 has 1 MA's), (52, 24962),

Gene: Soondubu_34 Start: 27961, Stop: 27794, Start Num: 32
Candidate Starts for Soondubu_34:
(15, 28030), (Start: 32 @27961 has 1 MA's), (35, 27955), (38, 27949), (57, 27802),

Gene: Sue2_37 Start: 26877, Stop: 26719, Start Num: 33
Candidate Starts for Sue2_37:
(9, 26997), (Start: 33 @26877 has 2 MA's), (36, 26871), (37, 26868), (49, 26796), (52, 26769), (53, 26763),

Gene: Tbone_35 Start: 25613, Stop: 25446, Start Num: 30
Candidate Starts for Tbone_35:
(6, 25739), (7, 25736), (10, 25718), (12, 25706), (21, 25640), (Start: 30 @25613 has 15 MA's), (42, 25586), (50, 25523), (53, 25493),

Gene: ThursdayNight_40 Start: 27462, Stop: 27292, Start Num: 33
Candidate Starts for ThursdayNight_40:
(Start: 33 @27462 has 2 MA's), (39, 27447), (46, 27417), (48, 27387), (49, 27381), (50, 27375), (53, 27345),

Gene: Tutumahutu_36 Start: 25785, Stop: 25618, Start Num: 30
Candidate Starts for Tutumahutu_36:
(21, 25812), (Start: 30 @25785 has 15 MA's), (42, 25758), (50, 25695), (53, 25665),

Gene: Tweety19_36 Start: 25069, Stop: 24911, Start Num: 23
Candidate Starts for Tweety19_36:
(Start: 23 @25069 has 2 MA's), (Start: 32 @25048 has 1 MA's), (52, 24961),

Gene: VResidence_37 Start: 25954, Stop: 25781, Start Num: 30
Candidate Starts for VResidence_37:
(Start: 30 @25954 has 15 MA's), (52, 25834), (53, 25828),

Gene: VroomVroom_41 Start: 27510, Stop: 27322, Start Num: 28
Candidate Starts for VroomVroom_41:
(3, 27657), (5, 27636), (11, 27606), (17, 27570), (Start: 28 @27510 has 4 MA's), (40, 27480), (53, 27375), (55, 27345),

Gene: Warda_36 Start: 25789, Stop: 25622, Start Num: 30
Candidate Starts for Warda_36:
(6, 25915), (7, 25912), (10, 25894), (12, 25882), (21, 25816), (Start: 30 @25789 has 15 MA's), (42, 25762), (50, 25699), (53, 25669),

Gene: Wildwest_36 Start: 25977, Stop: 25810, Start Num: 30
Candidate Starts for Wildwest_36:
(20, 26013), (Start: 30 @25977 has 15 MA's), (45, 25941), (50, 25887),

Gene: YesChef_36 Start: 25762, Stop: 25595, Start Num: 30
Candidate Starts for YesChef_36:
(21, 25789), (Start: 30 @25762 has 15 MA's), (42, 25735), (50, 25672), (53, 25642),