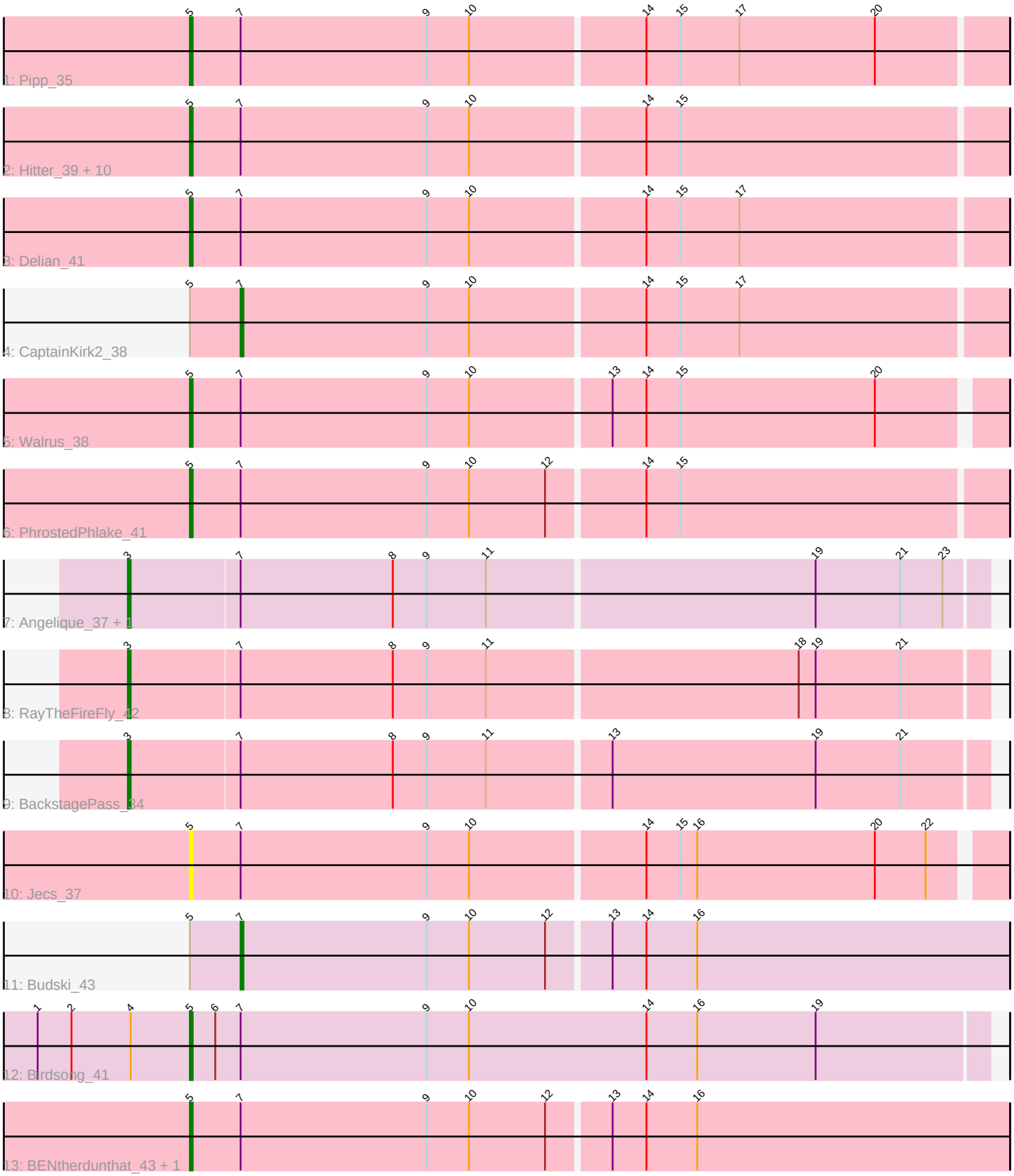
Pham 346089


1: Pipp_35
2: Hitter_39 + 10
3: Delian_41
4: CaptainKirk2_38
5: Walrus_38
6: PhrostedPhlake_41
7: Angelique_37 + 1
8: RayTheFireFly_42
9: BackstagePass_34
10: Jecs_37
11: Budski_43
12: Birdsong_41
13: BENtherdunthat_43 + 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 346089 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346089 has 25 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Pipp_35
• Track 2 : Hitter_39, BlingBling_35, Archis_41, MintFen_38, Guacamole_36, Mellie_35, UmaThurman_33, JasperJr_36, Zarbodnamra_37, Melba_37, Obliviate_34
• Track 3 : Delian_41
• Track 4 : CaptainKirk2_38
• Track 5 : Walrus_38
• Track 6 : PhrostedPhlake_41
• Track 7 : Angelique_37, Eyre_33
• Track 8 : RayTheFireFly_42
• Track 9 : BackstagePass_34
• Track 10 : Jecs_37
• Track 11 : Budski_43
• Track 12 : Birdsong_41
• Track 13 : BENtherdunthat_43, Whitney_46

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 18 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Archis_41, BENtherdunthat_43, Birdsong_41, BlingBling_35, Delian_41, Guacamole_36, Hitter_39, JasperJr_36, Jecs_37, Melba_37, Mellie_35, MintFen_38, Obliviate_34, PhrostedPhlake_41, Pipp_35, UmaThurman_33, Walrus_38, Whitney_46, Zarbodnamra_37,

Genes that have the "Most Annotated" start but do not call it:
• Budski_43, CaptainKirk2_38,

Genes that do not have the "Most Annotated" start:
• Angelique_37, BackstagePass_34, Eyre_33, RayTheFireFly_42,

Summary by start number:

Start 3:
• Found in 4 of 25 (16.0%) of genes in pham
• Manual Annotations of this start: 4 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Angelique_37 (CY1), BackstagePass_34 (DB), Eyre_33 (singleton), RayTheFireFly_42 (DB),

Start 5:
• Found in 21 of 25 (84.0%) of genes in pham
• Manual Annotations of this start: 18 of 24
• Called 90.5% of time when present
• Phage (with cluster) where this start called: Archis_41 (CV), BENtherdunthat_43 (DN1), Birdsong_41 (DN), BlingBling_35 (CV), Delian_41 (CV), Guacamole_36 (CV), Hitter_39 (CV), JasperJr_36 (CV), Jecs_37 (DB), Melba_37 (CV), Mellie_35 (CV), MintFen_38 (CV), Obliviate_34 (CV), PhrostedPhlake_41 (CV), Pipp_35 (CV), UmaThurman_33 (CV), Walrus_38 (CV), Whitney_46 (DN1), Zarbodnamra_37 (CV),

Start 7:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 2 of 24
• Called 8.0% of time when present
• Phage (with cluster) where this start called: Budski_43 (DN), CaptainKirk2_38 (CV),

Summary by clusters:

There are 6 clusters represented in this pham: DN, CY1, DB, singleton, DN1, CV,

Info for manual annotations of cluster CV:
•Start number 5 was manually annotated 15 times for cluster CV.
•Start number 7 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CY1:
•Start number 3 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster DB:
•Start number 3 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DN:
•Start number 5 was manually annotated 1 time for cluster DN.
•Start number 7 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 5 was manually annotated 2 times for cluster DN1.

Gene Information:

Gene: Angelique_37 Start: 29682, Stop: 29981, Start Num: 3
Candidate Starts for Angelique_37:
(Start: 3 @29682 has 4 MA's), (Start: 7 @29721 has 2 MA's), (8, 29775), (9, 29787), (11, 29808), (19, 29922), (21, 29952), (23, 29967),

Gene: Archis_41 Start: 30629, Stop: 30913, Start Num: 5
Candidate Starts for Archis_41:
(Start: 5 @30629 has 18 MA's), (Start: 7 @30647 has 2 MA's), (9, 30713), (10, 30728), (14, 30788), (15, 30800),

Gene: BENtherdunthat_43 Start: 29876, Stop: 30163, Start Num: 5
Candidate Starts for BENtherdunthat_43:
(Start: 5 @29876 has 18 MA's), (Start: 7 @29894 has 2 MA's), (9, 29960), (10, 29975), (12, 30002), (13, 30023), (14, 30035), (16, 30053),

Gene: BackstagePass_34 Start: 28621, Stop: 28920, Start Num: 3
Candidate Starts for BackstagePass_34:
(Start: 3 @28621 has 4 MA's), (Start: 7 @28660 has 2 MA's), (8, 28714), (9, 28726), (11, 28747), (13, 28789), (19, 28861), (21, 28891),

Gene: Birdsong_41 Start: 30671, Stop: 30952, Start Num: 5
Candidate Starts for Birdsong_41:
(1, 30617), (2, 30629), (4, 30650), (Start: 5 @30671 has 18 MA's), (6, 30680), (Start: 7 @30689 has 2 MA's), (9, 30755), (10, 30770), (14, 30833), (16, 30851), (19, 30893),

Gene: BlingBling_35 Start: 30643, Stop: 30927, Start Num: 5
Candidate Starts for BlingBling_35:
(Start: 5 @30643 has 18 MA's), (Start: 7 @30661 has 2 MA's), (9, 30727), (10, 30742), (14, 30802), (15, 30814),

Gene: Budski_43 Start: 31639, Stop: 31908, Start Num: 7
Candidate Starts for Budski_43:
(Start: 5 @31621 has 18 MA's), (Start: 7 @31639 has 2 MA's), (9, 31705), (10, 31720), (12, 31747), (13, 31768), (14, 31780), (16, 31798),

Gene: CaptainKirk2_38 Start: 29946, Stop: 30212, Start Num: 7
Candidate Starts for CaptainKirk2_38:
(Start: 5 @29928 has 18 MA's), (Start: 7 @29946 has 2 MA's), (9, 30012), (10, 30027), (14, 30087), (15, 30099), (17, 30120),

Gene: Delian_41 Start: 29926, Stop: 30210, Start Num: 5
Candidate Starts for Delian_41:
(Start: 5 @29926 has 18 MA's), (Start: 7 @29944 has 2 MA's), (9, 30010), (10, 30025), (14, 30085), (15, 30097), (17, 30118),

Gene: Eyre_33 Start: 25567, Stop: 25866, Start Num: 3
Candidate Starts for Eyre_33:
(Start: 3 @25567 has 4 MA's), (Start: 7 @25606 has 2 MA's), (8, 25660), (9, 25672), (11, 25693), (19, 25807), (21, 25837), (23, 25852),

Gene: Guacamole_36 Start: 30491, Stop: 30778, Start Num: 5
Candidate Starts for Guacamole_36:
(Start: 5 @30491 has 18 MA's), (Start: 7 @30509 has 2 MA's), (9, 30575), (10, 30590), (14, 30650), (15, 30662),

Gene: Hitter_39 Start: 30225, Stop: 30509, Start Num: 5
Candidate Starts for Hitter_39:

(Start: 5 @30225 has 18 MA's), (Start: 7 @30243 has 2 MA's), (9, 30309), (10, 30324), (14, 30384), (15, 30396),

Gene: JasperJr_36 Start: 30491, Stop: 30778, Start Num: 5
Candidate Starts for JasperJr_36:
(Start: 5 @30491 has 18 MA's), (Start: 7 @30509 has 2 MA's), (9, 30575), (10, 30590), (14, 30650), (15, 30662),

Gene: Jecs_37 Start: 29101, Stop: 29382, Start Num: 5
Candidate Starts for Jecs_37:
(Start: 5 @29101 has 18 MA's), (Start: 7 @29119 has 2 MA's), (9, 29185), (10, 29200), (14, 29260), (15, 29272), (16, 29278), (20, 29341), (22, 29359),

Gene: Melba_37 Start: 30468, Stop: 30752, Start Num: 5
Candidate Starts for Melba_37:
(Start: 5 @30468 has 18 MA's), (Start: 7 @30486 has 2 MA's), (9, 30552), (10, 30567), (14, 30627), (15, 30639),

Gene: Mellie_35 Start: 28739, Stop: 29026, Start Num: 5
Candidate Starts for Mellie_35:
(Start: 5 @28739 has 18 MA's), (Start: 7 @28757 has 2 MA's), (9, 28823), (10, 28838), (14, 28898), (15, 28910),

Gene: MintFen_38 Start: 30542, Stop: 30826, Start Num: 5
Candidate Starts for MintFen_38:
(Start: 5 @30542 has 18 MA's), (Start: 7 @30560 has 2 MA's), (9, 30626), (10, 30641), (14, 30701), (15, 30713),

Gene: Obliviate_34 Start: 28915, Stop: 29199, Start Num: 5
Candidate Starts for Obliviate_34:
(Start: 5 @28915 has 18 MA's), (Start: 7 @28933 has 2 MA's), (9, 28999), (10, 29014), (14, 29074), (15, 29086),

Gene: PhrostedPhlake_41 Start: 30723, Stop: 31007, Start Num: 5
Candidate Starts for PhrostedPhlake_41:
(Start: 5 @30723 has 18 MA's), (Start: 7 @30741 has 2 MA's), (9, 30807), (10, 30822), (12, 30849), (14, 30882), (15, 30894),

Gene: Pipp_35 Start: 29262, Stop: 29546, Start Num: 5
Candidate Starts for Pipp_35:
(Start: 5 @29262 has 18 MA's), (Start: 7 @29280 has 2 MA's), (9, 29346), (10, 29361), (14, 29421), (15, 29433), (17, 29454), (20, 29502),

Gene: RayTheFireFly_42 Start: 30919, Stop: 31218, Start Num: 3
Candidate Starts for RayTheFireFly_42:
(Start: 3 @30919 has 4 MA's), (Start: 7 @30958 has 2 MA's), (8, 31012), (9, 31024), (11, 31045), (18, 31153), (19, 31159), (21, 31189),

Gene: UmaThurman_33 Start: 29524, Stop: 29805, Start Num: 5
Candidate Starts for UmaThurman_33:
(Start: 5 @29524 has 18 MA's), (Start: 7 @29542 has 2 MA's), (9, 29608), (10, 29623), (14, 29683), (15, 29695),

Gene: Walrus_38 Start: 30117, Stop: 30398, Start Num: 5
Candidate Starts for Walrus_38:
(Start: 5 @30117 has 18 MA's), (Start: 7 @30135 has 2 MA's), (9, 30201), (10, 30216), (13, 30264), (14, 30276), (15, 30288), (20, 30357),

Gene: Whitney_46 Start: 33651, Stop: 33938, Start Num: 5
Candidate Starts for Whitney_46:
(Start: 5 @33651 has 18 MA's), (Start: 7 @33669 has 2 MA's), (9, 33735), (10, 33750), (12, 33777), (13, 33798), (14, 33810), (16, 33828),

Gene: Zarbodnamra_37 Start: 29948, Stop: 30235, Start Num: 5
Candidate Starts for Zarbodnamra_37:
(Start: 5 @29948 has 18 MA's), (Start: 7 @29966 has 2 MA's), (9, 30032), (10, 30047), (14, 30107), (15, 30119),