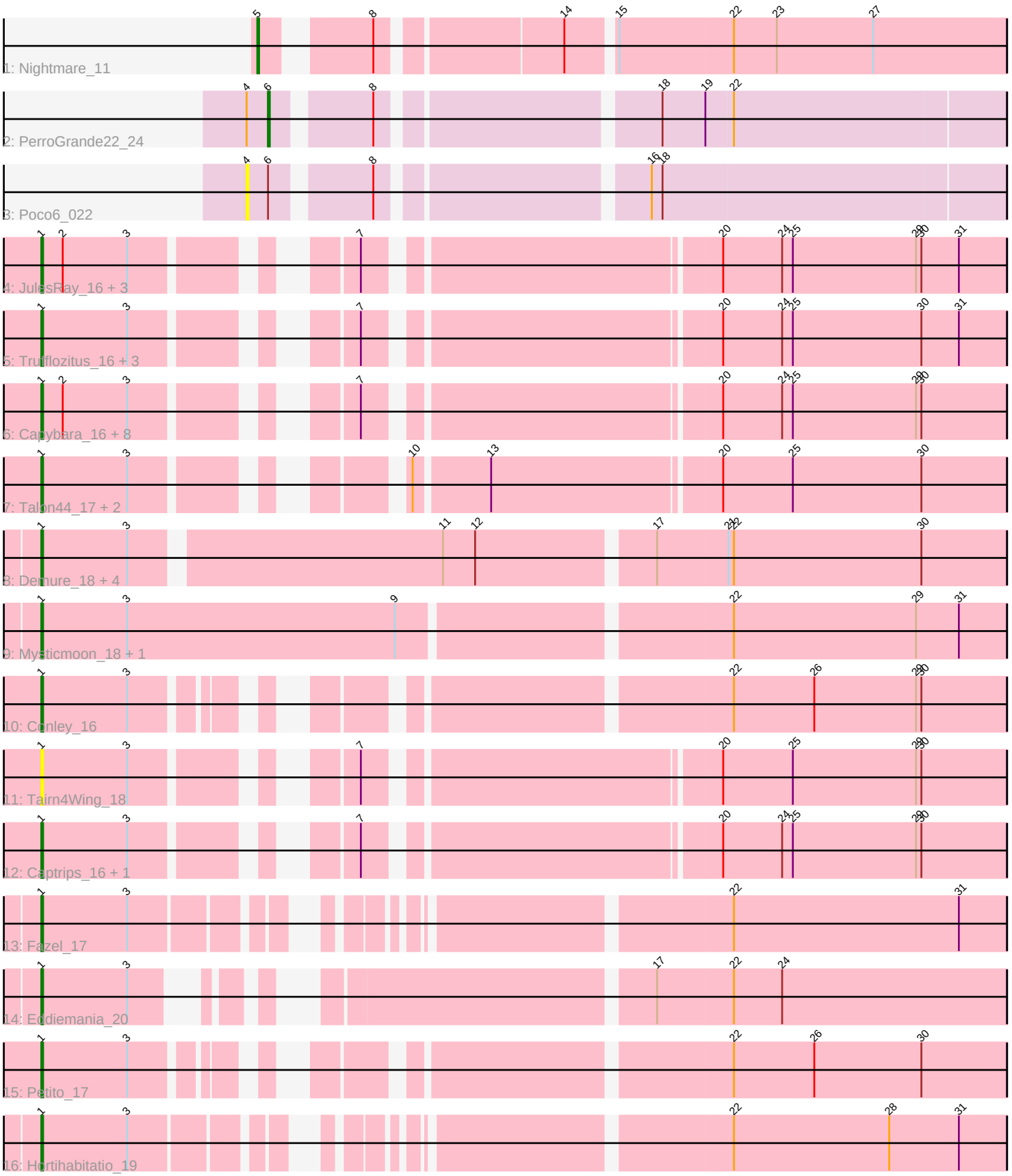
Pham 347817


1: Nightmare_11
2: PerroGrande22_24
3: Poco6_022
4: JulesRay_16 + 3
5: Truiflozitus_16 + 3
6: Capybara_16 + 8
7: Talon44_17 + 2
8: Demure_18 + 4
9: Mysticmoon_18 + 1
10: Conley_16
11: Tairn4Wing_18
12: Captrips_16 + 1
13: Fazel_17
14: Eddiemania_20
15: Petito_17
16: Hortihabitatio_19

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 347817 Report

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

Pham number 347817 has 38 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Nightmare_11
• Track 2 : PerroGrande22_24
• Track 3 : Poco6_022
• Track 4 : JulesRay_16, ChickyNuggy_17, Football_17, Bugg_18
• Track 5 : Trufflozitus_16, Dancer_16, Artorias_16, FortCran_16
• Track 6 : Capybara_16, Roney_16, Kerry_16, Gill_16, Gravy_16, Tanis_16, NoPickles_16, Odesza_16, Magel_16
• Track 7 : Talon44_17, Perkunas_18, SweetCrkHerbs_18
• Track 8 : Demure_18, Zeph_20, Arataki_18, Kenosha_18, Hydrus_20
• Track 9 : Mysticmoon_18, Pherobrine_18
• Track 10 : Conley_16
• Track 11 : Tairn4Wing_18
• Track 12 : Captrips_16, Avazak_16
• Track 13 : Fazel_17
• Track 14 : Eddiemania_20
• Track 15 : Petito_17
• Track 16 : Hortihabitatio_19

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

The start number called the most often in the published annotations is 1, it was called in 29 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arataki_18, Artorias_16, Avazak_16, Bugg_18, Captrips_16, Capybara_16, ChickyNuggy_17, Conley_16, Dancer_16, Demure_18, Eddiemania_20, Fazel_17, Football_17, FortCran_16, Gill_16, Gravy_16, Hortihabitatio_19, Hydrus_20, JulesRay_16, Kenosha_18, Kerry_16, Magel_16, Mysticmoon_18, NoPickles_16, Odesza_16, Perkunas_18, Petito_17, Pherobrine_18, Roney_16, SweetCrkHerbs_18, Tairn4Wing_18, Talon44_17, Tanis_16, Trufflozitus_16, Zeph_20,

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

Genes that do not have the "Most Annotated" start:
• Nightmare_11, PerroGrande22_24, Poco6_022,

Summary by start number:

Start 1:
• Found in 35 of 38 (92.1%) of genes in pham
• Manual Annotations of this start: 29 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arataki_18 (DJ), Artorias_16 (DJ), Avazak_16 (DJ), Bugg_18 (DJ), Captrips_16 (DJ), Capybara_16 (DJ), ChickyNuggy_17 (DJ), Conley_16 (DJ), Dancer_16 (DJ), Demure_18 (DJ), Eddiemania_20 (DJ), Fazel_17 (DJ), Football_17 (DJ), FortCran_16 (DJ), Gill_16 (DJ), Gravy_16 (DJ), Hortihabitatio_19 (DJ), Hydrus_20 (DJ), JulesRay_16 (DJ), Kenosha_18 (DJ), Kerry_16 (DJ), Magel_16 (DJ), Mysticmoon_18 (DJ), NoPickles_16 (DJ), Odesza_16 (DJ), Perkunas_18 (DJ), Petito_17 (DJ), Pherobrine_18 (DJ), Roney_16 (DJ), SweetCrkHerbs_18 (DJ), Tairn4Wing_18 (DJ), Talon44_17 (DJ), Tanis_16 (DJ), Trufflozitus_16 (DJ), Zeph_20 (DJ),

Start 4:
• Found in 2 of 38 (5.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Poco6_022 (CC),

Start 5:
• Found in 1 of 38 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nightmare_11 (AU1),

Start 6:
• Found in 2 of 38 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 50.0% of time when present
• Phage (with cluster) where this start called: PerroGrande22_24 (CC),

Summary by clusters:

There are 3 clusters represented in this pham: CC, AU1, DJ,

Info for manual annotations of cluster AU1:
•Start number 5 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster CC:
•Start number 6 was manually annotated 1 time for cluster CC.

Info for manual annotations of cluster DJ:
•Start number 1 was manually annotated 29 times for cluster DJ.

Gene Information:

Gene: Arataki_18 Start: 12248, Stop: 12766, Start Num: 1
Candidate Starts for Arataki_18:
(Start: 1 @12248 has 29 MA's), (3, 12296), (11, 12461), (12, 12479), (17, 12572), (21, 12611), (22, 12614), (30, 12719),

Gene: Artorias_16 Start: 10515, Stop: 10991, Start Num: 1
Candidate Starts for Artorias_16:
(Start: 1 @10515 has 29 MA's), (3, 10563), (7, 10653), (20, 10833), (24, 10866), (25, 10872), (30, 10944), (31, 10965),

Gene: Avazak_16 Start: 10522, Stop: 10998, Start Num: 1
Candidate Starts for Avazak_16:
(Start: 1 @10522 has 29 MA's), (3, 10570), (7, 10660), (20, 10840), (24, 10873), (25, 10879), (29, 10948), (30, 10951),

Gene: Bugg_18 Start: 10528, Stop: 11004, Start Num: 1
Candidate Starts for Bugg_18:
(Start: 1 @10528 has 29 MA's), (2, 10540), (3, 10576), (7, 10666), (20, 10846), (24, 10879), (25, 10885), (29, 10954), (30, 10957), (31, 10978),

Gene: Captrips_16 Start: 10522, Stop: 10998, Start Num: 1
Candidate Starts for Captrips_16:
(Start: 1 @10522 has 29 MA's), (3, 10570), (7, 10660), (20, 10840), (24, 10873), (25, 10879), (29, 10948), (30, 10951),

Gene: Capybara_16 Start: 10241, Stop: 10717, Start Num: 1
Candidate Starts for Capybara_16:
(Start: 1 @10241 has 29 MA's), (2, 10253), (3, 10289), (7, 10379), (20, 10559), (24, 10592), (25, 10598), (29, 10667), (30, 10670),

Gene: ChickyNuggy_17 Start: 10233, Stop: 10709, Start Num: 1
Candidate Starts for ChickyNuggy_17:
(Start: 1 @10233 has 29 MA's), (2, 10245), (3, 10281), (7, 10371), (20, 10551), (24, 10584), (25, 10590), (29, 10659), (30, 10662), (31, 10683),

Gene: Conley_16 Start: 10546, Stop: 11013, Start Num: 1
Candidate Starts for Conley_16:
(Start: 1 @10546 has 29 MA's), (3, 10594), (22, 10861), (26, 10906), (29, 10963), (30, 10966),

Gene: Dancer_16 Start: 10221, Stop: 10697, Start Num: 1
Candidate Starts for Dancer_16:
(Start: 1 @10221 has 29 MA's), (3, 10269), (7, 10359), (20, 10539), (24, 10572), (25, 10578), (30, 10650), (31, 10671),

Gene: Demure_18 Start: 12248, Stop: 12766, Start Num: 1
Candidate Starts for Demure_18:
(Start: 1 @12248 has 29 MA's), (3, 12296), (11, 12461), (12, 12479), (17, 12572), (21, 12611), (22, 12614), (30, 12719),

Gene: Eddiemania_20 Start: 13847, Stop: 14311, Start Num: 1
Candidate Starts for Eddiemania_20:

(Start: 1 @13847 has 29 MA's), (3, 13895), (17, 14117), (22, 14159), (24, 14186),

Gene: Fazel_17 Start: 12200, Stop: 12670, Start Num: 1
Candidate Starts for Fazel_17:
(Start: 1 @12200 has 29 MA's), (3, 12248), (22, 12518), (31, 12644),

Gene: Football_17 Start: 10233, Stop: 10709, Start Num: 1
Candidate Starts for Football_17:
(Start: 1 @10233 has 29 MA's), (2, 10245), (3, 10281), (7, 10371), (20, 10551), (24, 10584), (25, 10590), (29, 10659), (30, 10662), (31, 10683),

Gene: FortCran_16 Start: 10515, Stop: 10991, Start Num: 1
Candidate Starts for FortCran_16:
(Start: 1 @10515 has 29 MA's), (3, 10563), (7, 10653), (20, 10833), (24, 10866), (25, 10872), (30, 10944), (31, 10965),

Gene: Gill_16 Start: 10241, Stop: 10717, Start Num: 1
Candidate Starts for Gill_16:
(Start: 1 @10241 has 29 MA's), (2, 10253), (3, 10289), (7, 10379), (20, 10559), (24, 10592), (25, 10598), (29, 10667), (30, 10670),

Gene: Gravy_16 Start: 10241, Stop: 10717, Start Num: 1
Candidate Starts for Gravy_16:
(Start: 1 @10241 has 29 MA's), (2, 10253), (3, 10289), (7, 10379), (20, 10559), (24, 10592), (25, 10598), (29, 10667), (30, 10670),

Gene: Hortihabitatio_19 Start: 12571, Stop: 13041, Start Num: 1
Candidate Starts for Hortihabitatio_19:
(Start: 1 @12571 has 29 MA's), (3, 12619), (22, 12889), (28, 12976), (31, 13015),

Gene: Hydrus_20 Start: 13663, Stop: 14181, Start Num: 1
Candidate Starts for Hydrus_20:
(Start: 1 @13663 has 29 MA's), (3, 13711), (11, 13876), (12, 13894), (17, 13987), (21, 14026), (22, 14029), (30, 14134),

Gene: JulesRay_16 Start: 10515, Stop: 10991, Start Num: 1
Candidate Starts for JulesRay_16:
(Start: 1 @10515 has 29 MA's), (2, 10527), (3, 10563), (7, 10653), (20, 10833), (24, 10866), (25, 10872), (29, 10941), (30, 10944), (31, 10965),

Gene: Kenosha_18 Start: 12264, Stop: 12782, Start Num: 1
Candidate Starts for Kenosha_18:
(Start: 1 @12264 has 29 MA's), (3, 12312), (11, 12477), (12, 12495), (17, 12588), (21, 12627), (22, 12630), (30, 12735),

Gene: Kerry_16 Start: 10241, Stop: 10717, Start Num: 1
Candidate Starts for Kerry_16:
(Start: 1 @10241 has 29 MA's), (2, 10253), (3, 10289), (7, 10379), (20, 10559), (24, 10592), (25, 10598), (29, 10667), (30, 10670),

Gene: Magel_16 Start: 10241, Stop: 10717, Start Num: 1
Candidate Starts for Magel_16:

(Start: 1 @10241 has 29 MA's), (2, 10253), (3, 10289), (7, 10379), (20, 10559), (24, 10592), (25, 10598), (29, 10667), (30, 10670),

Gene: Mysticmoon_18 Start: 12938, Stop: 13462, Start Num: 1
Candidate Starts for Mysticmoon_18:
(Start: 1 @12938 has 29 MA's), (3, 12986), (9, 13136), (22, 13310), (29, 13412), (31, 13436),

Gene: Nightmare_11 Start: 7342, Stop: 7722, Start Num: 5
Candidate Starts for Nightmare_11:
(Start: 5 @7342 has 1 MA's), (8, 7390), (14, 7483), (15, 7507), (22, 7570), (23, 7594), (27, 7648),

Gene: NoPickles_16 Start: 10241, Stop: 10717, Start Num: 1
Candidate Starts for NoPickles_16:
(Start: 1 @10241 has 29 MA's), (2, 10253), (3, 10289), (7, 10379), (20, 10559), (24, 10592), (25, 10598), (29, 10667), (30, 10670),

Gene: Odesza_16 Start: 10241, Stop: 10717, Start Num: 1
Candidate Starts for Odesza_16:
(Start: 1 @10241 has 29 MA's), (2, 10253), (3, 10289), (7, 10379), (20, 10559), (24, 10592), (25, 10598), (29, 10667), (30, 10670),

Gene: Perkunas_18 Start: 11034, Stop: 11510, Start Num: 1
Candidate Starts for Perkunas_18:
(Start: 1 @11034 has 29 MA's), (3, 11082), (10, 11190), (13, 11229), (20, 11352), (25, 11391), (30, 11463),

Gene: PerroGrande22_24 Start: 20341, Stop: 20718, Start Num: 6
Candidate Starts for PerroGrande22_24:
(4, 20329), (Start: 6 @20341 has 1 MA's), (8, 20389), (18, 20530), (19, 20554), (22, 20569),

Gene: Petito_17 Start: 10739, Stop: 11206, Start Num: 1
Candidate Starts for Petito_17:
(Start: 1 @10739 has 29 MA's), (3, 10787), (22, 11054), (26, 11099), (30, 11159),

Gene: Pherobrine_18 Start: 12936, Stop: 13460, Start Num: 1
Candidate Starts for Pherobrine_18:
(Start: 1 @12936 has 29 MA's), (3, 12984), (9, 13134), (22, 13308), (29, 13410), (31, 13434),

Gene: Poco6_022 Start: 21022, Stop: 21411, Start Num: 4
Candidate Starts for Poco6_022:
(4, 21022), (Start: 6 @21034 has 1 MA's), (8, 21082), (16, 21217), (18, 21223),

Gene: Roney_16 Start: 10241, Stop: 10717, Start Num: 1
Candidate Starts for Roney_16:
(Start: 1 @10241 has 29 MA's), (2, 10253), (3, 10289), (7, 10379), (20, 10559), (24, 10592), (25, 10598), (29, 10667), (30, 10670),

Gene: SweetCrkHerbs_18 Start: 10710, Stop: 11186, Start Num: 1
Candidate Starts for SweetCrkHerbs_18:
(Start: 1 @10710 has 29 MA's), (3, 10758), (10, 10866), (13, 10905), (20, 11028), (25, 11067), (30, 11139),

Gene: Tairn4Wing_18 Start: 10514, Stop: 10990, Start Num: 1

Candidate Starts for Tairn4Wing_18:
(Start: 1 @10514 has 29 MA's), (3, 10562), (7, 10652), (20, 10832), (25, 10871), (29, 10940), (30, 10943),

Gene: Talon44_17 Start: 10710, Stop: 11186, Start Num: 1
Candidate Starts for Talon44_17:
(Start: 1 @10710 has 29 MA's), (3, 10758), (10, 10866), (13, 10905), (20, 11028), (25, 11067), (30, 11139),

Gene: Tanis_16 Start: 10091, Stop: 10567, Start Num: 1
Candidate Starts for Tanis_16:
(Start: 1 @10091 has 29 MA's), (2, 10103), (3, 10139), (7, 10229), (20, 10409), (24, 10442), (25, 10448), (29, 10517), (30, 10520),

Gene: Trufflozitus_16 Start: 10515, Stop: 10991, Start Num: 1
Candidate Starts for Trufflozitus_16:
(Start: 1 @10515 has 29 MA's), (3, 10563), (7, 10653), (20, 10833), (24, 10866), (25, 10872), (30, 10944), (31, 10965),

Gene: Zeph_20 Start: 13645, Stop: 14163, Start Num: 1
Candidate Starts for Zeph_20:
(Start: 1 @13645 has 29 MA's), (3, 13693), (11, 13858), (12, 13876), (17, 13969), (21, 14008), (22, 14011), (30, 14116),