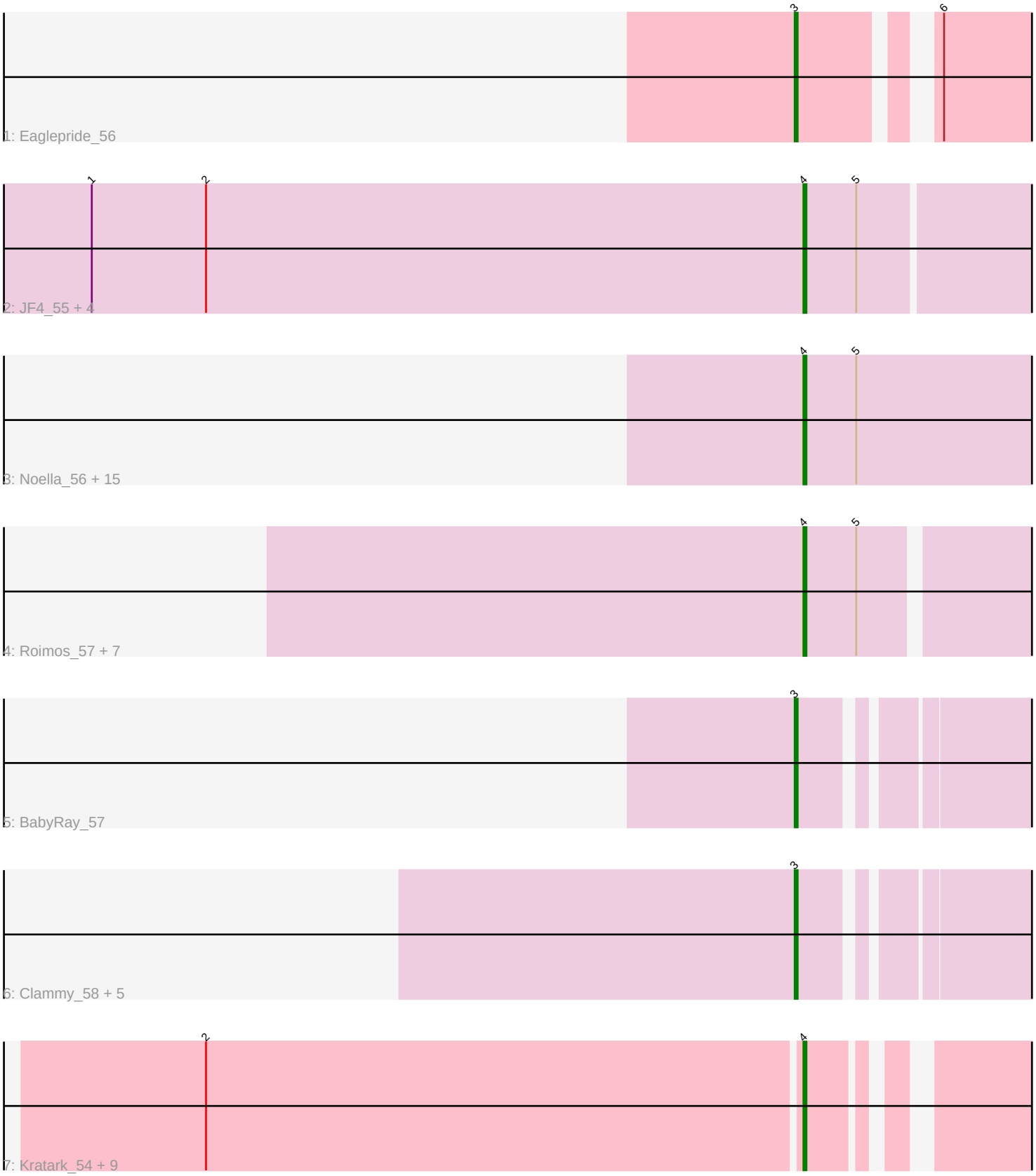
Pham 291278


3
6
1: Eaglepride_56
1
2
4
5
2: JF4_55 + 4
4
5
3: Noella_56 + 15
4
5
4: Roimos_57 + 7
3
5: BabyRay_57
3
6: Clammy_58 + 5
2
4
7: Kratark_54 + 9

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 291278 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291278 has 47 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Eaglepride_56
• Track 2 : JF4_55, JF2_55, MK4_57, Isca_56, Phantastic_58
• Track 3 : Noella_56, Lambert1_56, Todacoro_56, Norbert_55, ResDef_56, EtoileNova_57, QuinnKiro_55, Caviar_56, Margo_56, Popcicle_56, Texage_55, Hookmount_56, Veracruz_55, Panamaxus_54, Pocahontas_56, MA5_57
• Track 4 : Roimos_57, Zarafa_57, Heathen_57, Scout_57, Kachowdy_57, DropBear_57, Marchesa_57, HelDan_57
• Track 5 : BabyRay_57
• Track 6 : Clammy_58, Giroux_59, Bugatti_58, SaturnRing_58, TNguyen7_58, BlueBird_59
• Track 7 : Kratark_54, AvatarAhPeg_52, ChampagnePapi_56, Mundrea_53, Obama12_55, Arturo_53, Cerulean_55, Happiness_53, Miramae_52, LHTSCC_56

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

The start number called the most often in the published annotations is 4, it was called in 33 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arturo_53, AvatarAhPeg_52, Caviar_56, Cerulean_55, ChampagnePapi_56, DropBear_57, EtoileNova_57, Happiness_53, Heathen_57, HelDan_57, Hookmount_56, Isca_56, JF2_55, JF4_55, Kachowdy_57, Kratark_54, LHTSCC_56, Lambert1_56, MA5_57, MK4_57, Marchesa_57, Margo_56, Miramae_52, Mundrea_53, Noella_56, Norbert_55, Obama12_55, Panamaxus_54, Phantastic_58, Pocahontas_56, Popcicle_56, QuinnKiro_55, ResDef_56, Roimos_57, Scout_57, Texage_55, Todacoro_56, Veracruz_55, Zarafa_57,

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

Genes that do not have the "Most Annotated" start:
• BabyRay_57, BlueBird_59, Bugatti_58, Clammy_58, Eaglepride_56, Giroux_59, SaturnRing_58, TNguyen7_58,

Summary by start number:

Start 3:
• Found in 8 of 47 (17.0%) of genes in pham
• Manual Annotations of this start: 5 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyRay_57 (A3), BlueBird_59 (A3), Bugatti_58 (A3), Clammy_58 (A3), Eaglepride_56 (A10), Giroux_59 (A3), SaturnRing_58 (A3), TNguyen7_58 (A3),

Start 4:
• Found in 39 of 47 (83.0%) of genes in pham
• Manual Annotations of this start: 33 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arturo_53 (A4), AvatarAhPeg_52 (A4), Caviar_56 (A3), Cerulean_55 (A4), ChampagnePapi_56 (A4), DropBear_57 (A3), EtoileNova_57 (A3), Happiness_53 (A4), Heathen_57 (A3), HelDan_57 (A3), Hookmount_56 (A3), Isca_56 (A3), JF2_55 (A3), JF4_55 (A3), Kachowdy_57 (A3), Kratark_54 (A4), LHTSCC_56 (A4), Lambert1_56 (A3), MA5_57 (A3), MK4_57 (A3), Marchesa_57 (A3), Margo_56 (A3), Miramae_52 (A4), Mundrea_53 (A4), Noella_56 (A3), Norbert_55 (A3), Obama12_55 (A4), Panamaxus_54 (A3), Phantastic_58 (A3), Pocahontas_56 (A3), Popcicle_56 (A3), QuinnKiro_55 (A3), ResDef_56 (A3), Roimos_57 (A3), Scout_57 (A3), Texage_55 (A3), Todacoro_56 (A3), Veracruz_55 (A3), Zarafa_57 (A3),

Summary by clusters:

There are 3 clusters represented in this pham: A3, A4, A10,

Info for manual annotations of cluster A10:
•Start number 3 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A3:
•Start number 3 was manually annotated 4 times for cluster A3.
•Start number 4 was manually annotated 23 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 4 was manually annotated 10 times for cluster A4.

Gene Information:

Gene: Arturo_53 Start: 37722, Stop: 37645, Start Num: 4
Candidate Starts for Arturo_53:
(2, 37923), (Start: 4 @37722 has 33 MA's),

Gene: AvatarAhPeg_52 Start: 37235, Stop: 37158, Start Num: 4
Candidate Starts for AvatarAhPeg_52:
(2, 37436), (Start: 4 @37235 has 33 MA's),

Gene: BabyRay_57 Start: 37849, Stop: 37763, Start Num: 3
Candidate Starts for BabyRay_57:

(Start: 3 @37849 has 5 MA's),

Gene: BlueBird_59 Start: 37893, Stop: 37804, Start Num: 3
Candidate Starts for BlueBird_59:
(Start: 3 @37893 has 5 MA's),

Gene: Bugatti_58 Start: 37893, Stop: 37804, Start Num: 3
Candidate Starts for Bugatti_58:
(Start: 3 @37893 has 5 MA's),

Gene: Caviar_56 Start: 37855, Stop: 37757, Start Num: 4
Candidate Starts for Caviar_56:
(Start: 4 @37855 has 33 MA's), (5, 37837),

Gene: Cerulean_55 Start: 37887, Stop: 37810, Start Num: 4
Candidate Starts for Cerulean_55:
(2, 38088), (Start: 4 @37887 has 33 MA's),

Gene: ChampagnePapi_56 Start: 37886, Stop: 37809, Start Num: 4
Candidate Starts for ChampagnePapi_56:
(2, 38087), (Start: 4 @37886 has 33 MA's),

Gene: Clammy_58 Start: 37893, Stop: 37804, Start Num: 3
Candidate Starts for Clammy_58:
(Start: 3 @37893 has 5 MA's),

Gene: DropBear_57 Start: 37792, Stop: 37700, Start Num: 4
Candidate Starts for DropBear_57:
(Start: 4 @37792 has 33 MA's), (5, 37774),

Gene: Eaglepride_56 Start: 37562, Stop: 37473, Start Num: 3
Candidate Starts for Eaglepride_56:
(Start: 3 @37562 has 5 MA's), (6, 37526),

Gene: EtoileNova_57 Start: 37859, Stop: 37761, Start Num: 4
Candidate Starts for EtoileNova_57:
(Start: 4 @37859 has 33 MA's), (5, 37841),

Gene: Giroux_59 Start: 37892, Stop: 37803, Start Num: 3
Candidate Starts for Giroux_59:
(Start: 3 @37892 has 5 MA's),

Gene: Happiness_53 Start: 37469, Stop: 37392, Start Num: 4
Candidate Starts for Happiness_53:
(2, 37670), (Start: 4 @37469 has 33 MA's),

Gene: Heathen_57 Start: 37581, Stop: 37489, Start Num: 4
Candidate Starts for Heathen_57:
(Start: 4 @37581 has 33 MA's), (5, 37563),

Gene: HelDan_57 Start: 37797, Stop: 37705, Start Num: 4
Candidate Starts for HelDan_57:
(Start: 4 @37797 has 33 MA's), (5, 37779),

Gene: Hookmount_56 Start: 37856, Stop: 37758, Start Num: 4
Candidate Starts for Hookmount_56:
(Start: 4 @37856 has 33 MA's), (5, 37838),

Gene: Isca_56 Start: 37366, Stop: 37271, Start Num: 4
Candidate Starts for Isca_56:
(1, 37609), (2, 37570), (Start: 4 @37366 has 33 MA's), (5, 37348),

Gene: JF2_55 Start: 36067, Stop: 35972, Start Num: 4
Candidate Starts for JF2_55:
(1, 36310), (2, 36271), (Start: 4 @36067 has 33 MA's), (5, 36049),

Gene: JF4_55 Start: 36067, Stop: 35972, Start Num: 4
Candidate Starts for JF4_55:
(1, 36310), (2, 36271), (Start: 4 @36067 has 33 MA's), (5, 36049),

Gene: Kachowdy_57 Start: 37833, Stop: 37741, Start Num: 4
Candidate Starts for Kachowdy_57:
(Start: 4 @37833 has 33 MA's), (5, 37815),

Gene: Kratark_54 Start: 37605, Stop: 37528, Start Num: 4
Candidate Starts for Kratark_54:
(2, 37806), (Start: 4 @37605 has 33 MA's),

Gene: LHTSCC_56 Start: 37886, Stop: 37809, Start Num: 4
Candidate Starts for LHTSCC_56:
(2, 38087), (Start: 4 @37886 has 33 MA's),

Gene: Lambert1_56 Start: 37855, Stop: 37757, Start Num: 4
Candidate Starts for Lambert1_56:
(Start: 4 @37855 has 33 MA's), (5, 37837),

Gene: MA5_57 Start: 37267, Stop: 37175, Start Num: 4
Candidate Starts for MA5_57:
(Start: 4 @37267 has 33 MA's), (5, 37249),

Gene: MK4_57 Start: 37351, Stop: 37256, Start Num: 4
Candidate Starts for MK4_57:
(1, 37594), (2, 37555), (Start: 4 @37351 has 33 MA's), (5, 37333),

Gene: Marchesa_57 Start: 37783, Stop: 37691, Start Num: 4
Candidate Starts for Marchesa_57:
(Start: 4 @37783 has 33 MA's), (5, 37765),

Gene: Margo_56 Start: 37881, Stop: 37783, Start Num: 4
Candidate Starts for Margo_56:
(Start: 4 @37881 has 33 MA's), (5, 37863),

Gene: Miramae_52 Start: 36897, Stop: 36820, Start Num: 4
Candidate Starts for Miramae_52:
(2, 37098), (Start: 4 @36897 has 33 MA's),

Gene: Mundrea_53 Start: 37449, Stop: 37372, Start Num: 4
Candidate Starts for Mundrea_53:
(2, 37650), (Start: 4 @37449 has 33 MA's),

Gene: Noella_56 Start: 37856, Stop: 37758, Start Num: 4
Candidate Starts for Noella_56:
(Start: 4 @37856 has 33 MA's), (5, 37838),

Gene: Norbert_55 Start: 37855, Stop: 37757, Start Num: 4
Candidate Starts for Norbert_55:
(Start: 4 @37855 has 33 MA's), (5, 37837),

Gene: Obama12_55 Start: 37870, Stop: 37793, Start Num: 4
Candidate Starts for Obama12_55:
(2, 38071), (Start: 4 @37870 has 33 MA's),

Gene: Panamaxus_54 Start: 37855, Stop: 37757, Start Num: 4
Candidate Starts for Panamaxus_54:
(Start: 4 @37855 has 33 MA's), (5, 37837),

Gene: Phantastic_58 Start: 37528, Stop: 37433, Start Num: 4
Candidate Starts for Phantastic_58:
(1, 37771), (2, 37732), (Start: 4 @37528 has 33 MA's), (5, 37510),

Gene: Pocahontas_56 Start: 37852, Stop: 37754, Start Num: 4
Candidate Starts for Pocahontas_56:
(Start: 4 @37852 has 33 MA's), (5, 37834),

Gene: Popcicle_56 Start: 37852, Stop: 37754, Start Num: 4
Candidate Starts for Popcicle_56:
(Start: 4 @37852 has 33 MA's), (5, 37834),

Gene: QuinnKiro_55 Start: 37855, Stop: 37757, Start Num: 4
Candidate Starts for QuinnKiro_55:
(Start: 4 @37855 has 33 MA's), (5, 37837),

Gene: ResDef_56 Start: 37855, Stop: 37757, Start Num: 4
Candidate Starts for ResDef_56:
(Start: 4 @37855 has 33 MA's), (5, 37837),

Gene: Roimos_57 Start: 37713, Stop: 37621, Start Num: 4
Candidate Starts for Roimos_57:
(Start: 4 @37713 has 33 MA's), (5, 37695),

Gene: SaturnRing_58 Start: 37893, Stop: 37804, Start Num: 3
Candidate Starts for SaturnRing_58:
(Start: 3 @37893 has 5 MA's),

Gene: Scout_57 Start: 37044, Stop: 36952, Start Num: 4
Candidate Starts for Scout_57:
(Start: 4 @37044 has 33 MA's), (5, 37026),

Gene: TNguyen7_58 Start: 37859, Stop: 37770, Start Num: 3

Candidate Starts for TNguyen7_58:
(Start: 3 @37859 has 5 MA's),

Gene: Texage_55 Start: 37856, Stop: 37758, Start Num: 4
Candidate Starts for Texage_55:
(Start: 4 @37856 has 33 MA's), (5, 37838),

Gene: Todacoro_56 Start: 37855, Stop: 37757, Start Num: 4
Candidate Starts for Todacoro_56:
(Start: 4 @37855 has 33 MA's), (5, 37837),

Gene: Veracruz_55 Start: 37855, Stop: 37757, Start Num: 4
Candidate Starts for Veracruz_55:
(Start: 4 @37855 has 33 MA's), (5, 37837),

Gene: Zarafa_57 Start: 37806, Stop: 37714, Start Num: 4
Candidate Starts for Zarafa_57:
(Start: 4 @37806 has 33 MA's), (5, 37788),