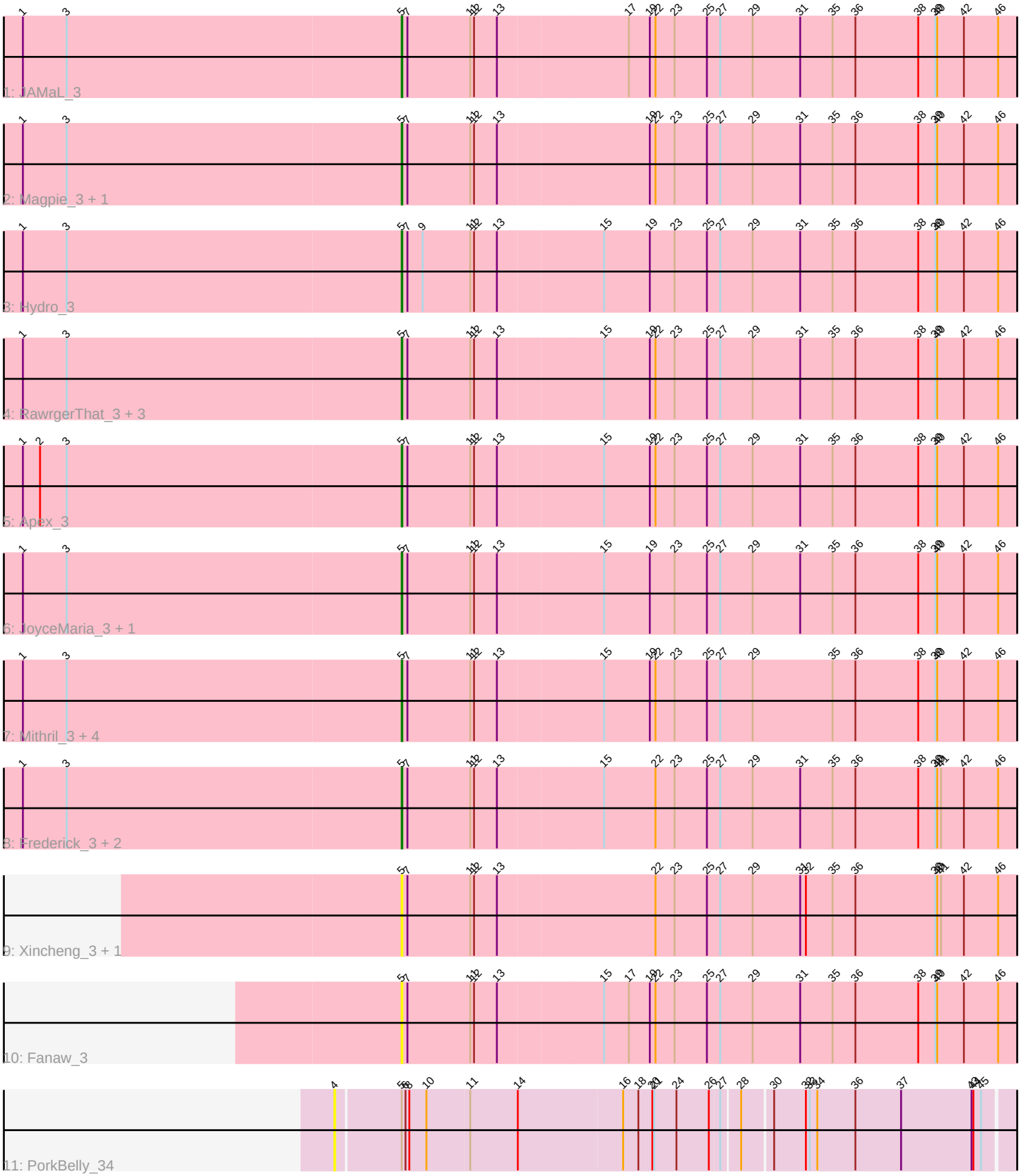
Pham 348003


1: JAMaL_3
2: Magpie_3 + 1
3: Hydro_3
4: RawrgerThat_3 + 3
5: Apex_3
6: JoyceMaria_3 + 1
7: Mithril_3 + 4
8: Frederick_3 + 2
9: Xincheng_3 + 1
10: Fanaw_3
11: PorkBelly_34

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 348003 Report

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

Pham number 348003 has 23 members, 4 are drafts.

Phages represented in each track:
• Track 1 : JAMaL_3
• Track 2 : Magpie_3, VioletZ_3
• Track 3 : Hydro_3
• Track 4 : RawrgerThat_3, BobbyK_3, Mudslide_3, Lolalove_3
• Track 5 : Apex_3
• Track 6 : JoyceMaria_3, Hangman_3
• Track 7 : Mithril_3, Waleliano_3, Prince_3, BrownCNA_3, Austelle_3
• Track 8 : Frederick_3, Zemanar_3, Heath_3
• Track 9 : Xincheng_3, JaguarMi_3
• Track 10 : Fanaw_3
• Track 11 : PorkBelly_34

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 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Apex_3, Austelle_3, BobbyK_3, BrownCNA_3, Fanaw_3, Frederick_3, Hangman_3, Heath_3, Hydro_3, JAMaL_3, JaguarMi_3, JoyceMaria_3, Lolalove_3, Magpie_3, Mithril_3, Mudslide_3, Prince_3, RawrgerThat_3, VioletZ_3, Waleliano_3, Xincheng_3, Zemanar_3,

Genes that have the "Most Annotated" start but do not call it:
• PorkBelly_34,

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

Summary by start number:

Start 4:
• Found in 1 of 23 (4.3%) of genes in pham
• No Manual Annotations of this start.

• Called 100.0% of time when present
• Phage (with cluster) where this start called: PorkBelly_34 (FJ),

Start 5:
• Found in 23 of 23 (100.0%) of genes in pham
• Manual Annotations of this start: 19 of 19
• Called 95.7% of time when present
• Phage (with cluster) where this start called: Apex_3 (B4), Austelle_3 (B4), BobbyK_3 (B4), BrownCNA_3 (B4), Fanaw_3 (B4), Frederick_3 (B4), Hangman_3 (B4), Heath_3 (B4), Hydro_3 (B4), JAMaL_3 (B4), JaguarMi_3 (B4), JoyceMaria_3 (B4), Lolalove_3 (B4), Magpie_3 (B4), Mithril_3 (B4), Mudslide_3 (B4), Prince_3 (B4), RawrgerThat_3 (B4), VioletZ_3 (B4), Waleliano_3 (B4), Xincheng_3 (B4), Zemanar_3 (B4),

Summary by clusters:

There are 2 clusters represented in this pham: B4, FJ,

Info for manual annotations of cluster B4:
•Start number 5 was manually annotated 19 times for cluster B4.

Gene Information:

Gene: Apex_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Apex_3:
(1, 1258), (2, 1285), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Austelle_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Austelle_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: BobbyK_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for BobbyK_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: BrownCNA_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for BrownCNA_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Fanaw_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Fanaw_3:
(Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (17, 2203), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38,

2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Frederick_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Frederick_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (41, 2695), (42, 2731), (46, 2785),

Gene: Hangman_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Hangman_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Heath_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Heath_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (41, 2695), (42, 2731), (46, 2785),

Gene: Hydro_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Hydro_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (9, 1885), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: JAMaL_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for JAMaL_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (17, 2203), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: JaguarMi_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for JaguarMi_3:
(Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (32, 2482), (35, 2524), (36, 2560), (39, 2686), (40, 2689), (41, 2695), (42, 2731), (46, 2785),

Gene: JoyceMaria_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for JoyceMaria_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Lolalove_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Lolalove_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Magpie_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Magpie_3:

(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Mithril_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Mithril_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Mudslide_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Mudslide_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: PorkBelly_34 Start: 26802, Stop: 25765, Start Num: 4
Candidate Starts for PorkBelly_34:
(4, 26802), (Start: 5 @26703 has 19 MA's), (6, 26697), (8, 26691), (10, 26664), (11, 26598), (14, 26523), (16, 26361), (18, 26337), (20, 26316), (21, 26313), (24, 26280), (26, 26229), (27, 26214), (28, 26187), (30, 26142), (32, 26094), (33, 26088), (34, 26076), (36, 26016), (37, 25944), (43, 25833), (44, 25830), (45, 25818),

Gene: Prince_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Prince_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: RawrgerThat_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for RawrgerThat_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: VioletZ_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for VioletZ_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Waleliano_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Waleliano_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (19, 2236), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (42, 2731), (46, 2785),

Gene: Xincheng_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Xincheng_3:
(Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (32, 2482), (35, 2524), (36, 2560), (39, 2686), (40, 2689), (41, 2695), (42, 2731), (46, 2785),

Gene: Zemanar_3 Start: 1852, Stop: 2826, Start Num: 5
Candidate Starts for Zemanar_3:
(1, 1258), (3, 1327), (Start: 5 @1852 has 19 MA's), (7, 1861), (11, 1960), (12, 1966), (13, 2002), (15, 2164), (22, 2245), (23, 2275), (25, 2326), (27, 2347), (29, 2398), (31, 2473), (35, 2524), (36, 2560), (38, 2659), (39, 2686), (40, 2689), (41, 2695), (42, 2731), (46, 2785),