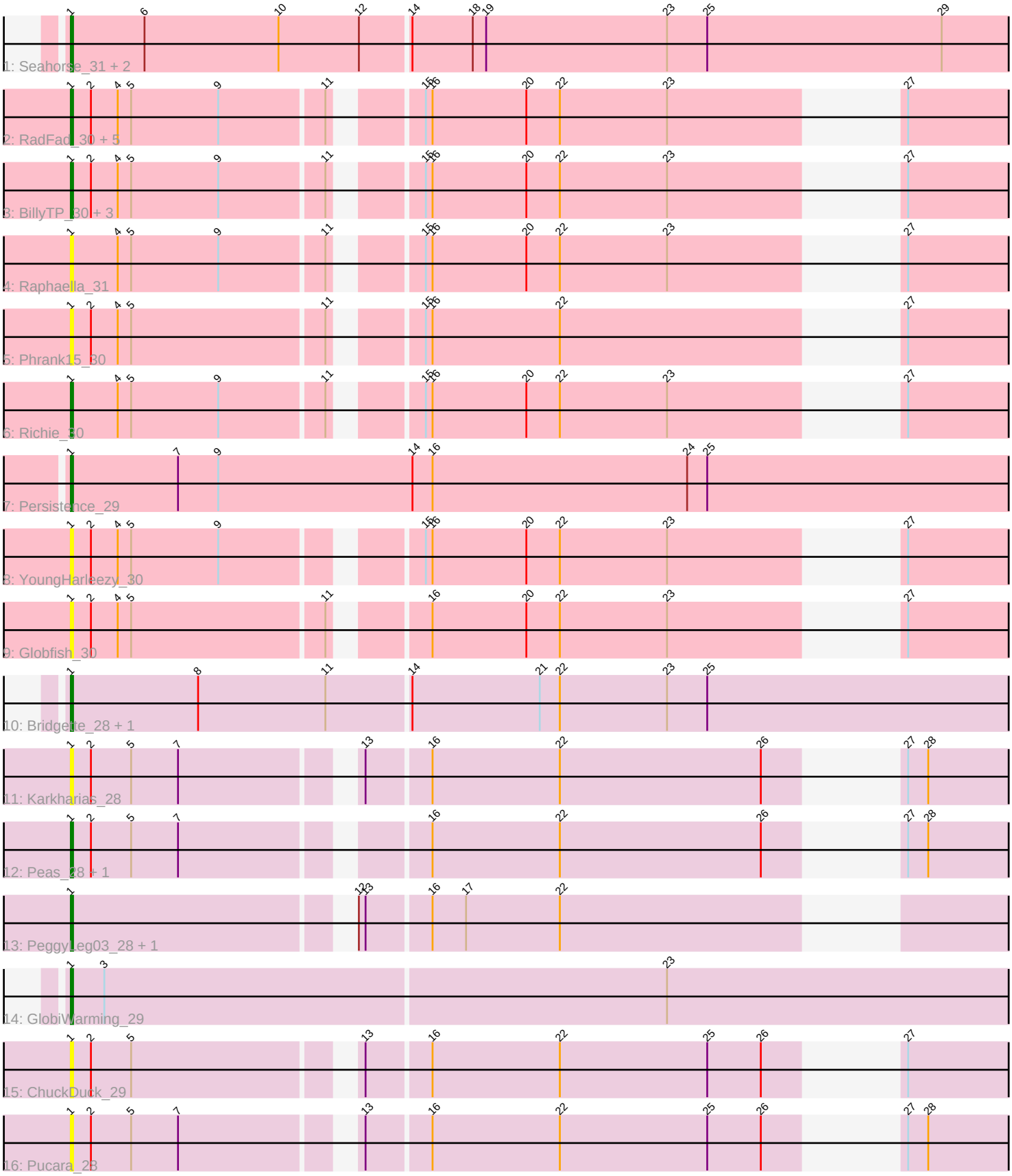
Pham 86682


1: Seahorse_31 + 2
2: RadFad_30 + 5
3: BillyTP_30 + 3
4: Raphaella_31
5: Phrank15_30
6: Richie_30
7: Persistence_29
8: YoungHarleezy_30
9: Globfish_30
10: Bridgette_28 + 1
11: Karkharias_28
12: Peas_28 + 1
13: PeggyLeg03_28 + 1
14: GlobiWarming_29
15: ChuckDuck_29
16: Pucara_28

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 86682 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86682 has 29 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Seahorse_31, Anekin_30, Hestia_30
• Track 2 : RadFad_30, MidnightRain_30, Hillester_30, Aikyam_30, BenchScraper_30, CookieBear_31
• Track 3 : BillyTP_30, Sakai_30, Isolde_30, Gorpy_30
• Track 4 : Raphaella_31
• Track 5 : Phrank15_30
• Track 6 : Richie_30
• Track 7 : Persistence_29
• Track 8 : YoungHarleezy_30
• Track 9 : Globfish_30
• Track 10 : Bridgette_28, Judy_29
• Track 11 : Karkharias_28
• Track 12 : Peas_28, Eileen_28
• Track 13 : PeggyLeg03_28, Constance_28
• Track 14 : GlobiWarming_29
• Track 15 : ChuckDuck_29
• Track 16 : Pucara_28

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 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aikyam_30, Anekin_30, BenchScraper_30, BillyTP_30, Bridgette_28, ChuckDuck_29, Constance_28, CookieBear_31, Eileen_28, Globfish_30, GlobiWarming_29, Gorpy_30, Hestia_30, Hillester_30, Isolde_30, Judy_29, Karkharias_28, MidnightRain_30, Peas_28, PeggyLeg03_28, Persistence_29, Phrank15_30, Pucara_28, RadFad_30, Raphaella_31, Richie_30, Sakai_30, Seahorse_31, YoungHarleezy_30,

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

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

Summary by start number:

Start 1:
• Found in 29 of 29 (100.0%) of genes in pham
• Manual Annotations of this start: 16 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikyam_30 (AY), Anekin_30 (AY), BenchScraper_30 (AY), BillyTP_30 (AY), Bridgette_28 (FA), ChuckDuck_29 (FA), Constance_28 (FA), CookieBear_31 (AY), Eileen_28 (FA), Globfish_30 (AY), GlobiWarming_29 (FA), Gorpy_30 (AY), Hestia_30 (AY), Hillester_30 (AY), Isolde_30 (AY), Judy_29 (FA), Karkharias_28 (FA), MidnightRain_30 (AY), Peas_28 (FA), PeggyLeg03_28 (FA), Persistence_29 (AY), Phrank15_30 (AY), Pucara_28 (FA), RadFad_30 (AY), Raphaella_31 (AY), Richie_30 (AY), Sakai_30 (AY), Seahorse_31 (AY), YoungHarleezy_30 (AY),

Summary by clusters:

There are 2 clusters represented in this pham: AY, FA,

Info for manual annotations of cluster AY:
•Start number 1 was manually annotated 9 times for cluster AY.

Info for manual annotations of cluster FA:
•Start number 1 was manually annotated 7 times for cluster FA.

Gene Information:

Gene: Aikyam_30 Start: 21057, Stop: 21431, Start Num: 1
Candidate Starts for Aikyam_30:
(Start: 1 @21057 has 16 MA's), (2, 21066), (4, 21078), (5, 21084), (9, 21123), (11, 21168), (15, 21198), (16, 21201), (20, 21243), (22, 21258), (23, 21306), (27, 21369),

Gene: Anekin_30 Start: 21166, Stop: 21600, Start Num: 1
Candidate Starts for Anekin_30:
(Start: 1 @21166 has 16 MA's), (6, 21199), (10, 21259), (12, 21295), (14, 21316), (18, 21343), (19, 21349), (23, 21430), (25, 21448), (29, 21553),

Gene: BenchScraper_30 Start: 21062, Stop: 21436, Start Num: 1
Candidate Starts for BenchScraper_30:
(Start: 1 @21062 has 16 MA's), (2, 21071), (4, 21083), (5, 21089), (9, 21128), (11, 21173), (15, 21203), (16, 21206), (20, 21248), (22, 21263), (23, 21311), (27, 21374),

Gene: BillyTP_30 Start: 20765, Stop: 21139, Start Num: 1
Candidate Starts for BillyTP_30:
(Start: 1 @20765 has 16 MA's), (2, 20774), (4, 20786), (5, 20792), (9, 20831), (11, 20876), (15, 20906), (16, 20909), (20, 20951), (22, 20966), (23, 21014), (27, 21077),

Gene: Bridgette_28 Start: 21052, Stop: 21486, Start Num: 1

Candidate Starts for Bridgette_28:
(Start: 1 @21052 has 16 MA's), (8, 21109), (11, 21166), (14, 21202), (21, 21259), (22, 21268), (23, 21316), (25, 21334),

Gene: ChuckDuck_29 Start: 20881, Stop: 21255, Start Num: 1
Candidate Starts for ChuckDuck_29:
(Start: 1 @20881 has 16 MA's), (2, 20890), (5, 20908), (13, 20998), (16, 21025), (22, 21082), (25, 21148), (26, 21172), (27, 21193),

Gene: Constance_28 Start: 21353, Stop: 21727, Start Num: 1
Candidate Starts for Constance_28:
(Start: 1 @21353 has 16 MA's), (12, 21467), (13, 21470), (16, 21497), (17, 21512), (22, 21554),

Gene: CookieBear_31 Start: 21047, Stop: 21421, Start Num: 1
Candidate Starts for CookieBear_31:
(Start: 1 @21047 has 16 MA's), (2, 21056), (4, 21068), (5, 21074), (9, 21113), (11, 21158), (15, 21188), (16, 21191), (20, 21233), (22, 21248), (23, 21296), (27, 21359),

Gene: Eileen_28 Start: 20739, Stop: 21113, Start Num: 1
Candidate Starts for Eileen_28:
(Start: 1 @20739 has 16 MA's), (2, 20748), (5, 20766), (7, 20787), (16, 20883), (22, 20940), (26, 21030), (27, 21051), (28, 21060),

Gene: Globfish_30 Start: 21281, Stop: 21655, Start Num: 1
Candidate Starts for Globfish_30:
(Start: 1 @21281 has 16 MA's), (2, 21290), (4, 21302), (5, 21308), (11, 21392), (16, 21425), (20, 21467), (22, 21482), (23, 21530), (27, 21593),

Gene: GlobiWarming_29 Start: 20735, Stop: 21169, Start Num: 1
Candidate Starts for GlobiWarming_29:
(Start: 1 @20735 has 16 MA's), (3, 20750), (23, 20999),

Gene: Gorpy_30 Start: 20990, Stop: 21364, Start Num: 1
Candidate Starts for Gorpy_30:
(Start: 1 @20990 has 16 MA's), (2, 20999), (4, 21011), (5, 21017), (9, 21056), (11, 21101), (15, 21131), (16, 21134), (20, 21176), (22, 21191), (23, 21239), (27, 21302),

Gene: Hestia_30 Start: 21026, Stop: 21460, Start Num: 1
Candidate Starts for Hestia_30:
(Start: 1 @21026 has 16 MA's), (6, 21059), (10, 21119), (12, 21155), (14, 21176), (18, 21203), (19, 21209), (23, 21290), (25, 21308), (29, 21413),

Gene: Hillester_30 Start: 21047, Stop: 21421, Start Num: 1
Candidate Starts for Hillester_30:
(Start: 1 @21047 has 16 MA's), (2, 21056), (4, 21068), (5, 21074), (9, 21113), (11, 21158), (15, 21188), (16, 21191), (20, 21233), (22, 21248), (23, 21296), (27, 21359),

Gene: Isolde_30 Start: 20816, Stop: 21190, Start Num: 1
Candidate Starts for Isolde_30:
(Start: 1 @20816 has 16 MA's), (2, 20825), (4, 20837), (5, 20843), (9, 20882), (11, 20927), (15, 20957), (16, 20960), (20, 21002), (22, 21017), (23, 21065), (27, 21128),

Gene: Judy_29 Start: 21303, Stop: 21737, Start Num: 1

Candidate Starts for Judy_29:
(Start: 1 @21303 has 16 MA's), (8, 21360), (11, 21417), (14, 21453), (21, 21510), (22, 21519), (23, 21567), (25, 21585),

Gene: Karkharias_28 Start: 20741, Stop: 21115, Start Num: 1
Candidate Starts for Karkharias_28:
(Start: 1 @20741 has 16 MA's), (2, 20750), (5, 20768), (7, 20789), (13, 20858), (16, 20885), (22, 20942), (26, 21032), (27, 21053), (28, 21062),

Gene: MidnightRain_30 Start: 21046, Stop: 21420, Start Num: 1
Candidate Starts for MidnightRain_30:
(Start: 1 @21046 has 16 MA's), (2, 21055), (4, 21067), (5, 21073), (9, 21112), (11, 21157), (15, 21187), (16, 21190), (20, 21232), (22, 21247), (23, 21295), (27, 21358),

Gene: Peas_28 Start: 20739, Stop: 21113, Start Num: 1
Candidate Starts for Peas_28:
(Start: 1 @20739 has 16 MA's), (2, 20748), (5, 20766), (7, 20787), (16, 20883), (22, 20940), (26, 21030), (27, 21051), (28, 21060),

Gene: PeggyLeg03_28 Start: 21353, Stop: 21727, Start Num: 1
Candidate Starts for PeggyLeg03_28:
(Start: 1 @21353 has 16 MA's), (12, 21467), (13, 21470), (16, 21497), (17, 21512), (22, 21554),

Gene: Persistence_29 Start: 21021, Stop: 21458, Start Num: 1
Candidate Starts for Persistence_29:
(Start: 1 @21021 has 16 MA's), (7, 21069), (9, 21087), (14, 21174), (16, 21183), (24, 21297), (25, 21306),

Gene: Phrank15_30 Start: 20915, Stop: 21289, Start Num: 1
Candidate Starts for Phrank15_30:
(Start: 1 @20915 has 16 MA's), (2, 20924), (4, 20936), (5, 20942), (11, 21026), (15, 21056), (16, 21059), (22, 21116), (27, 21227),

Gene: Pucara_28 Start: 20911, Stop: 21285, Start Num: 1
Candidate Starts for Pucara_28:
(Start: 1 @20911 has 16 MA's), (2, 20920), (5, 20938), (7, 20959), (13, 21028), (16, 21055), (22, 21112), (25, 21178), (26, 21202), (27, 21223), (28, 21232),

Gene: RadFad_30 Start: 21047, Stop: 21421, Start Num: 1
Candidate Starts for RadFad_30:
(Start: 1 @21047 has 16 MA's), (2, 21056), (4, 21068), (5, 21074), (9, 21113), (11, 21158), (15, 21188), (16, 21191), (20, 21233), (22, 21248), (23, 21296), (27, 21359),

Gene: Raphaella_31 Start: 20981, Stop: 21355, Start Num: 1
Candidate Starts for Raphaella_31:
(Start: 1 @20981 has 16 MA's), (4, 21002), (5, 21008), (9, 21047), (11, 21092), (15, 21122), (16, 21125), (20, 21167), (22, 21182), (23, 21230), (27, 21293),

Gene: Richie_30 Start: 21062, Stop: 21436, Start Num: 1
Candidate Starts for Richie_30:
(Start: 1 @21062 has 16 MA's), (4, 21083), (5, 21089), (9, 21128), (11, 21173), (15, 21203), (16, 21206), (20, 21248), (22, 21263), (23, 21311), (27, 21374),

Gene: Sakai_30 Start: 20990, Stop: 21364, Start Num: 1
Candidate Starts for Sakai_30:
(Start: 1 @20990 has 16 MA's), (2, 20999), (4, 21011), (5, 21017), (9, 21056), (11, 21101), (15, 21131), (16, 21134), (20, 21176), (22, 21191), (23, 21239), (27, 21302),

Gene: Seahorse_31 Start: 21565, Stop: 21999, Start Num: 1
Candidate Starts for Seahorse_31:
(Start: 1 @21565 has 16 MA's), (6, 21598), (10, 21658), (12, 21694), (14, 21715), (18, 21742), (19, 21748), (23, 21829), (25, 21847), (29, 21952),

Gene: YoungHarleezy_30 Start: 21060, Stop: 21434, Start Num: 1
Candidate Starts for YoungHarleezy_30:
(Start: 1 @21060 has 16 MA's), (2, 21069), (4, 21081), (5, 21087), (9, 21126), (15, 21201), (16, 21204), (20, 21246), (22, 21261), (23, 21309), (27, 21372),