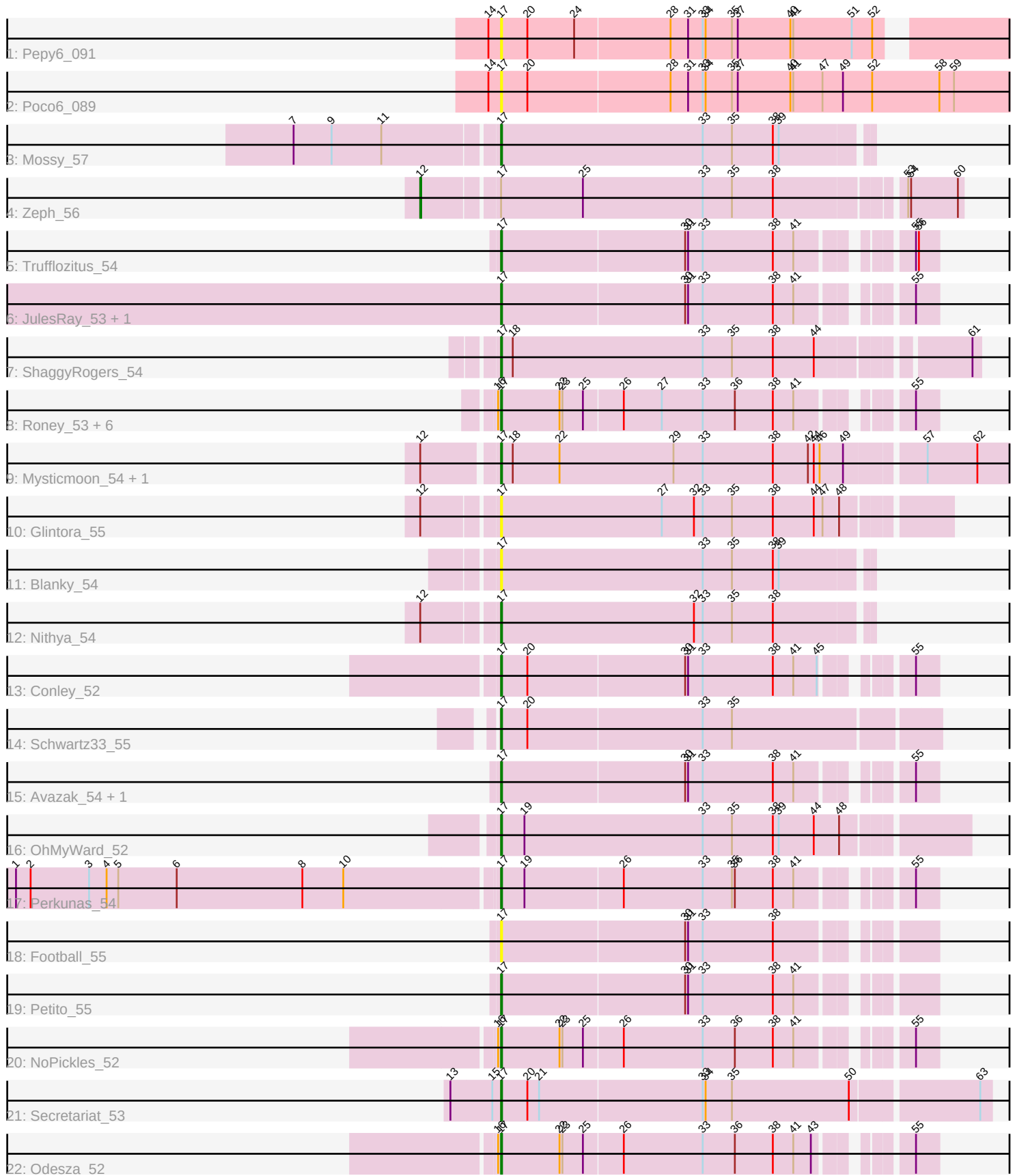


Pham 331101



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 331101 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331101 has 31 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Pepy6_091
- Track 2 : Poco6_089
- Track 3 : Mossy_57
- Track 4 : Zeph_56
- Track 5 : Trufflozitus_54
- Track 6 : JulesRay_53, ChickyNuggy_55
- Track 7 : ShaggyRogers_54
- Track 8 : Roney_53, Kerry_52, Tanis_53, Capybara_53, Gravy_52, Gill_53, Magel_54
- Track 9 : Mysticmoon_54, Pherobrine_55
- Track 10 : Glintora_55
- Track 11 : Blanky_54
- Track 12 : Nithya_54
- Track 13 : Conley_52
- Track 14 : Schwartz33_55
- Track 15 : Avazak_54, Tairn4Wing_55
- Track 16 : OhMyWard_52
- Track 17 : Perkunas_54
- Track 18 : Football_55
- Track 19 : Petito_55
- Track 20 : NoPickles_52
- Track 21 : Secretariat_53
- Track 22 : Odesza_52

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

The start number called the most often in the published annotations is 17, it was called in 23 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Avazak_54, Blanky_54, Capybara_53, ChickyNuggy_55, Conley_52, Football_55, Gill_53, Glintora_55, Gravy_52, JulesRay_53, Kerry_52, Magel_54, Mossy_57, Mysticmoon_54, Nithya_54, NoPickles_52, Odesza_52, OhMyWard_52, Pepy6_091, Perkunas_54, Petito_55, Pherobrine_55, Poco6_089, Roney_53, Schwartz33_55,

Secretariat_53, ShaggyRogers_54, Tairn4Wing_55, Tanis_53, Trufflozitus_54,

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

- Zeph_56,

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

-

Summary by start number:

Start 12:

- Found in 5 of 31 (16.1%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Zeph_56 (DJ),

Start 17:

- Found in 31 of 31 (100.0%) of genes in pham
- Manual Annotations of this start: 23 of 24
- Called 96.8% of time when present
- Phage (with cluster) where this start called: Avazak_54 (DJ), Blanky_54 (DJ), Capybara_53 (DJ), ChickyNuggy_55 (DJ), Conley_52 (DJ), Football_55 (DJ), Gill_53 (DJ), Glintora_55 (DJ), Gravy_52 (DJ), JulesRay_53 (DJ), Kerry_52 (DJ), Magel_54 (DJ), Mossy_57 (DJ), Mysticmoon_54 (DJ), Nithya_54 (DJ), NoPickles_52 (DJ), Odesza_52 (DJ), OhMyWard_52 (DJ), Pepy6_091 (CC), Perkunas_54 (DJ), Petite_55 (DJ), Pherobrine_55 (DJ), Poco6_089 (CC), Roney_53 (DJ), Schwartz33_55 (DJ), Secretariat_53 (DJ), ShaggyRogers_54 (DJ), Tairn4Wing_55 (DJ), Tanis_53 (DJ), Trufflozitus_54 (DJ),

Summary by clusters:

There are 2 clusters represented in this pham: CC, DJ,

Info for manual annotations of cluster DJ:

- Start number 12 was manually annotated 1 time for cluster DJ.
- Start number 17 was manually annotated 23 times for cluster DJ.

Gene Information:

Gene: Avazak_54 Start: 36834, Stop: 37244, Start Num: 17

Candidate Starts for Avazak_54:

(Start: 17 @36834 has 23 MA's), (30, 37020), (31, 37023), (33, 37038), (38, 37110), (41, 37131), (55, 37221),

Gene: Blanky_54 Start: 38832, Stop: 39203, Start Num: 17

Candidate Starts for Blanky_54:

(Start: 17 @38832 has 23 MA's), (33, 39039), (35, 39069), (38, 39111), (39, 39117),

Gene: Capybara_53 Start: 36333, Stop: 36743, Start Num: 17

Candidate Starts for Capybara_53:

(16, 36330), (Start: 17 @36333 has 23 MA's), (22, 36393), (23, 36396), (25, 36417), (26, 36456), (27, 36495), (33, 36537), (36, 36570), (38, 36609), (41, 36630), (55, 36720),

Gene: ChickyNuggy_55 Start: 36591, Stop: 37001, Start Num: 17

Candidate Starts for ChickyNuggy_55:

(Start: 17 @36591 has 23 MA's), (30, 36777), (31, 36780), (33, 36795), (38, 36867), (41, 36888), (55, 36978),

Gene: Conley_52 Start: 37120, Stop: 37530, Start Num: 17

Candidate Starts for Conley_52:

(Start: 17 @37120 has 23 MA's), (20, 37147), (30, 37306), (31, 37309), (33, 37324), (38, 37396), (41, 37417), (45, 37441), (55, 37507),

Gene: Football_55 Start: 36388, Stop: 36798, Start Num: 17

Candidate Starts for Football_55:

(Start: 17 @36388 has 23 MA's), (30, 36574), (31, 36577), (33, 36592), (38, 36664),

Gene: Gill_53 Start: 36350, Stop: 36760, Start Num: 17

Candidate Starts for Gill_53:

(16, 36347), (Start: 17 @36350 has 23 MA's), (22, 36410), (23, 36413), (25, 36434), (26, 36473), (27, 36512), (33, 36554), (36, 36587), (38, 36626), (41, 36647), (55, 36737),

Gene: Glintora_55 Start: 37742, Stop: 38188, Start Num: 17

Candidate Starts for Glintora_55:

(Start: 12 @37670 has 1 MA's), (Start: 17 @37742 has 23 MA's), (27, 37907), (32, 37940), (33, 37949), (35, 37979), (38, 38021), (44, 38063), (47, 38072), (48, 38087),

Gene: Gravy_52 Start: 36023, Stop: 36433, Start Num: 17

Candidate Starts for Gravy_52:

(16, 36020), (Start: 17 @36023 has 23 MA's), (22, 36083), (23, 36086), (25, 36107), (26, 36146), (27, 36185), (33, 36227), (36, 36260), (38, 36299), (41, 36320), (55, 36410),

Gene: JulesRay_53 Start: 36516, Stop: 36926, Start Num: 17

Candidate Starts for JulesRay_53:

(Start: 17 @36516 has 23 MA's), (30, 36702), (31, 36705), (33, 36720), (38, 36792), (41, 36813), (55, 36903),

Gene: Kerry_52 Start: 36023, Stop: 36433, Start Num: 17

Candidate Starts for Kerry_52:

(16, 36020), (Start: 17 @36023 has 23 MA's), (22, 36083), (23, 36086), (25, 36107), (26, 36146), (27, 36185), (33, 36227), (36, 36260), (38, 36299), (41, 36320), (55, 36410),

Gene: Magel_54 Start: 36254, Stop: 36676, Start Num: 17

Candidate Starts for Magel_54:

(16, 36251), (Start: 17 @36254 has 23 MA's), (22, 36314), (23, 36317), (25, 36338), (26, 36377), (27, 36416), (33, 36458), (36, 36491), (38, 36530), (41, 36551), (55, 36653),

Gene: Mossy_57 Start: 39044, Stop: 39415, Start Num: 17

Candidate Starts for Mossy_57:

(7, 38843), (9, 38882), (11, 38933), (Start: 17 @39044 has 23 MA's), (33, 39251), (35, 39281), (38, 39323), (39, 39329),

Gene: Mysticmoon_54 Start: 37743, Stop: 38270, Start Num: 17

Candidate Starts for Mysticmoon_54:

(Start: 12 @37671 has 1 MA's), (Start: 17 @37743 has 23 MA's), (18, 37755), (22, 37803), (29, 37920), (33, 37950), (38, 38022), (42, 38058), (44, 38064), (46, 38070), (49, 38094), (57, 38169), (62, 38220),

Gene: Nithya_54 Start: 37126, Stop: 37497, Start Num: 17

Candidate Starts for Nithya_54:

(Start: 12 @37054 has 1 MA's), (Start: 17 @37126 has 23 MA's), (32, 37324), (33, 37333), (35, 37363), (38, 37405),

Gene: NoPickles_52 Start: 35688, Stop: 36098, Start Num: 17

Candidate Starts for NoPickles_52:

(16, 35685), (Start: 17 @35688 has 23 MA's), (22, 35748), (23, 35751), (25, 35772), (26, 35811), (33, 35892), (36, 35925), (38, 35964), (41, 35985), (55, 36075),

Gene: Odesza_52 Start: 36078, Stop: 36488, Start Num: 17

Candidate Starts for Odesza_52:

(16, 36075), (Start: 17 @36078 has 23 MA's), (22, 36138), (23, 36141), (25, 36162), (26, 36201), (33, 36282), (36, 36315), (38, 36354), (41, 36375), (43, 36393), (55, 36465),

Gene: OhMyWard_52 Start: 38137, Stop: 38601, Start Num: 17

Candidate Starts for OhMyWard_52:

(Start: 17 @38137 has 23 MA's), (19, 38161), (33, 38344), (35, 38374), (38, 38416), (39, 38422), (44, 38458), (48, 38482),

Gene: Pepy6_091 Start: 46716, Stop: 47210, Start Num: 17

Candidate Starts for Pepy6_091:

(14, 46704), (Start: 17 @46716 has 23 MA's), (20, 46743), (24, 46791), (28, 46887), (31, 46905), (33, 46920), (34, 46923), (35, 46950), (37, 46956), (40, 47010), (41, 47013), (51, 47073), (52, 47094),

Gene: Perkunas_54 Start: 36360, Stop: 36770, Start Num: 17

Candidate Starts for Perkunas_54:

(1, 35874), (2, 35889), (3, 35949), (4, 35967), (5, 35979), (6, 36039), (8, 36168), (10, 36210), (Start: 17 @36360 has 23 MA's), (19, 36384), (26, 36483), (33, 36564), (35, 36594), (36, 36597), (38, 36636), (41, 36657), (55, 36747),

Gene: Petite_55 Start: 38180, Stop: 38590, Start Num: 17

Candidate Starts for Petite_55:

(Start: 17 @38180 has 23 MA's), (30, 38366), (31, 38369), (33, 38384), (38, 38456), (41, 38477),

Gene: Pherobrine_55 Start: 38033, Stop: 38560, Start Num: 17

Candidate Starts for Pherobrine_55:

(Start: 12 @37961 has 1 MA's), (Start: 17 @38033 has 23 MA's), (18, 38045), (22, 38093), (29, 38210), (33, 38240), (38, 38312), (42, 38348), (44, 38354), (46, 38360), (49, 38384), (57, 38459), (62, 38510),

Gene: Poco6_089 Start: 48918, Stop: 49439, Start Num: 17

Candidate Starts for Poco6_089:

(14, 48906), (Start: 17 @48918 has 23 MA's), (20, 48945), (28, 49089), (31, 49107), (33, 49122), (34, 49125), (35, 49152), (37, 49158), (40, 49212), (41, 49215), (47, 49245), (49, 49266), (52, 49296), (58, 49365), (59, 49380),

Gene: Roney_53 Start: 36376, Stop: 36786, Start Num: 17

Candidate Starts for Roney_53:

(16, 36373), (Start: 17 @36376 has 23 MA's), (22, 36436), (23, 36439), (25, 36460), (26, 36499), (27, 36538), (33, 36580), (36, 36613), (38, 36652), (41, 36673), (55, 36763),

Gene: Schwartz33_55 Start: 37144, Stop: 37581, Start Num: 17

Candidate Starts for Schwartz33_55:

(Start: 17 @37144 has 23 MA's), (20, 37171), (33, 37348), (35, 37378),

Gene: Secretariat_53 Start: 36006, Stop: 36494, Start Num: 17

Candidate Starts for Secretariat_53:

(13, 35955), (15, 35997), (Start: 17 @36006 has 23 MA's), (20, 36033), (21, 36045), (33, 36210), (34, 36213), (35, 36240), (50, 36360), (63, 36483),

Gene: ShaggyRogers_54 Start: 36933, Stop: 37400, Start Num: 17

Candidate Starts for ShaggyRogers_54:

(Start: 17 @36933 has 23 MA's), (18, 36945), (33, 37140), (35, 37170), (38, 37212), (44, 37254), (61, 37392),

Gene: Tairn4Wing_55 Start: 36335, Stop: 36745, Start Num: 17

Candidate Starts for Tairn4Wing_55:

(Start: 17 @36335 has 23 MA's), (30, 36521), (31, 36524), (33, 36539), (38, 36611), (41, 36632), (55, 36722),

Gene: Tanis_53 Start: 36196, Stop: 36606, Start Num: 17

Candidate Starts for Tanis_53:

(16, 36193), (Start: 17 @36196 has 23 MA's), (22, 36256), (23, 36259), (25, 36280), (26, 36319), (27, 36358), (33, 36400), (36, 36433), (38, 36472), (41, 36493), (55, 36583),

Gene: Trufflozitus_54 Start: 36858, Stop: 37268, Start Num: 17

Candidate Starts for Trufflozitus_54:

(Start: 17 @36858 has 23 MA's), (30, 37044), (31, 37047), (33, 37062), (38, 37134), (41, 37155), (55, 37245), (56, 37248),

Gene: Zeph_56 Start: 37958, Stop: 38485, Start Num: 12

Candidate Starts for Zeph_56:

(Start: 12 @37958 has 1 MA's), (Start: 17 @38030 has 23 MA's), (25, 38114), (33, 38237), (35, 38267), (38, 38309), (53, 38429), (54, 38432), (60, 38480),