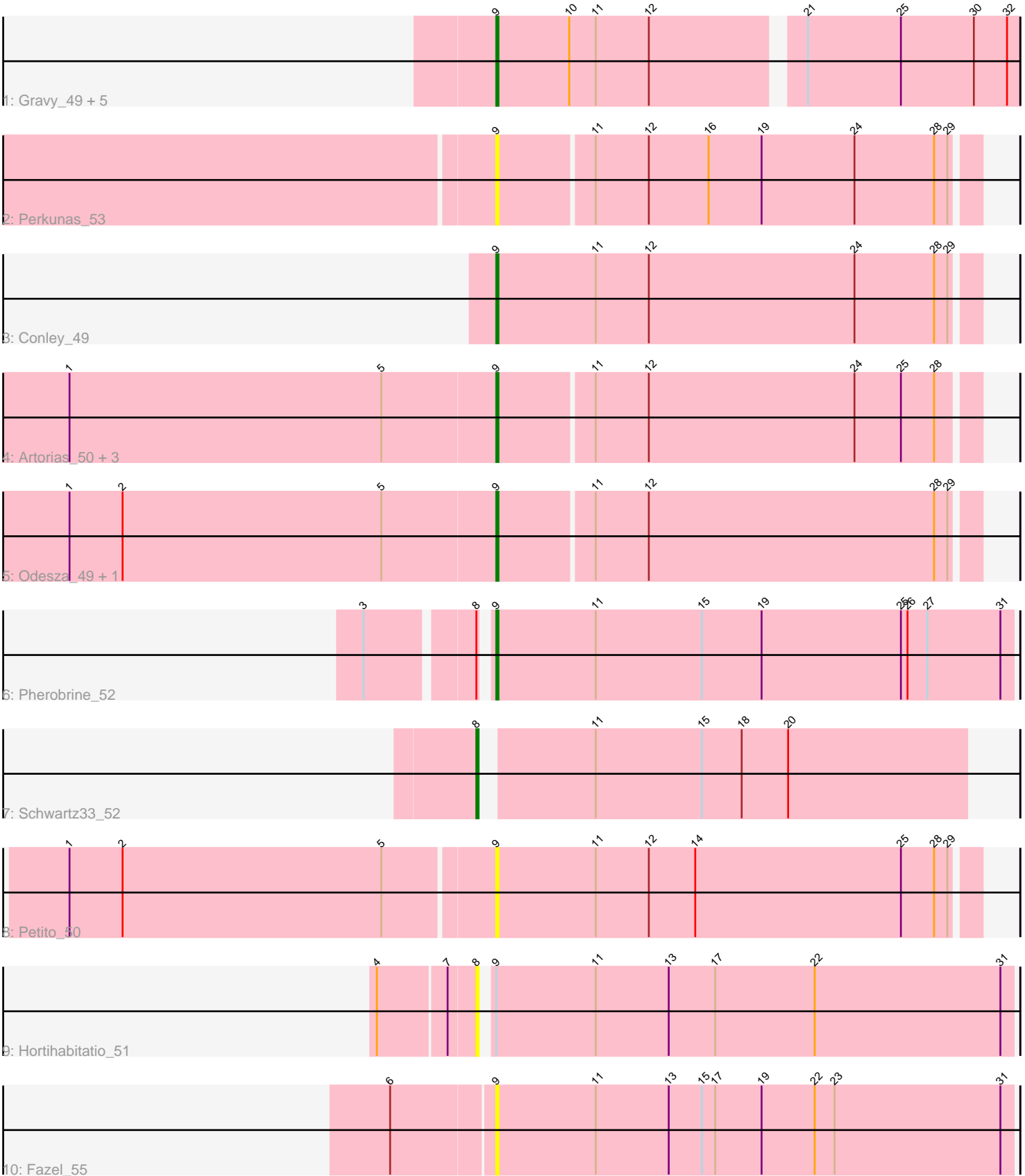


Pham 87267



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 87267 Report

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

Pham number 87267 has 19 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Gravy_49, Tanis_50, Kerry_49, Capybara_50, Gill_50, Magel_51
- Track 2 : Perkunas_53
- Track 3 : Conley_49
- Track 4 : Artorias_50, Captrips_51, FortCran_54, Avazak_51
- Track 5 : Odesza_49, Roney_50
- Track 6 : Pherobrine_52
- Track 7 : Schwartz33_52
- Track 8 : Petito_50
- Track 9 : Hortihabitatio_51
- Track 10 : Fazel_55

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

The start number called the most often in the published annotations is 9, it was called in 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artorias_50, Avazak_51, Captrips_51, Capybara_50, Conley_49, Fazel_55, FortCran_54, Gill_50, Gravy_49, Kerry_49, Magel_51, Odesza_49, Perkunas_53, Petito_50, Pherobrine_52, Roney_50, Tanis_50,

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

- Hortihabitatio_51,

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

- Schwartz33_52,

Summary by start number:

Start 8:

- Found in 3 of 19 (15.8%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 66.7% of time when present

- Phage (with cluster) where this start called: Hortihabitatio_51 (DJ), Schwartz33_52 (DJ),

Start 9:

- Found in 18 of 19 (94.7%) of genes in pham
- Manual Annotations of this start: 11 of 12
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Artorias_50 (DJ), Avazak_51 (DJ), Captrips_51 (DJ), Capybara_50 (DJ), Conley_49 (DJ), Fazel_55 (DJ), FortCran_54 (DJ), Gill_50 (DJ), Gravy_49 (DJ), Kerry_49 (DJ), Magel_51 (DJ), Odesza_49 (DJ), Perkunas_53 (DJ), Petite_50 (DJ), Pherobrine_52 (DJ), Roney_50 (DJ), Tanis_50 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 8 was manually annotated 1 time for cluster DJ.
- Start number 9 was manually annotated 11 times for cluster DJ.

Gene Information:

Gene: Artorias_50 Start: 35488, Stop: 35700, Start Num: 9

Candidate Starts for Artorias_50:

(1, 35296), (5, 35437), (Start: 9 @35488 has 11 MA's), (11, 35530), (12, 35554), (24, 35647), (25, 35668), (28, 35683),

Gene: Avazak_51 Start: 35833, Stop: 36045, Start Num: 9

Candidate Starts for Avazak_51:

(1, 35641), (5, 35782), (Start: 9 @35833 has 11 MA's), (11, 35875), (12, 35899), (24, 35992), (25, 36013), (28, 36028),

Gene: Captrips_51 Start: 34967, Stop: 35179, Start Num: 9

Candidate Starts for Captrips_51:

(1, 34775), (5, 34916), (Start: 9 @34967 has 11 MA's), (11, 35009), (12, 35033), (24, 35126), (25, 35147), (28, 35162),

Gene: Capybara_50 Start: 35368, Stop: 35595, Start Num: 9

Candidate Starts for Capybara_50:

(Start: 9 @35368 has 11 MA's), (10, 35401), (11, 35413), (12, 35437), (21, 35500), (25, 35542), (30, 35575), (32, 35590),

Gene: Conley_49 Start: 36116, Stop: 36331, Start Num: 9

Candidate Starts for Conley_49:

(Start: 9 @36116 has 11 MA's), (11, 36161), (12, 36185), (24, 36278), (28, 36314), (29, 36320),

Gene: Fazel_55 Start: 35770, Stop: 36003, Start Num: 9

Candidate Starts for Fazel_55:

(6, 35725), (Start: 9 @35770 has 11 MA's), (11, 35815), (13, 35848), (15, 35863), (17, 35869), (19, 35890), (22, 35914), (23, 35923), (31, 35998),

Gene: FortCran_54 Start: 35488, Stop: 35700, Start Num: 9

Candidate Starts for FortCran_54:

(1, 35296), (5, 35437), (Start: 9 @35488 has 11 MA's), (11, 35530), (12, 35554), (24, 35647), (25, 35668), (28, 35683),

Gene: Gill_50 Start: 35385, Stop: 35612, Start Num: 9

Candidate Starts for Gill_50:

(Start: 9 @35385 has 11 MA's), (10, 35418), (11, 35430), (12, 35454), (21, 35517), (25, 35559), (30, 35592), (32, 35607),

Gene: Gravy_49 Start: 35058, Stop: 35285, Start Num: 9

Candidate Starts for Gravy_49:

(Start: 9 @35058 has 11 MA's), (10, 35091), (11, 35103), (12, 35127), (21, 35190), (25, 35232), (30, 35265), (32, 35280),

Gene: Hortihabitatio_51 Start: 35972, Stop: 36208, Start Num: 8

Candidate Starts for Hortihabitatio_51:

(4, 35930), (7, 35960), (Start: 8 @35972 has 1 MA's), (Start: 9 @35975 has 11 MA's), (11, 36020), (13, 36053), (17, 36074), (22, 36119), (31, 36203),

Gene: Kerry_49 Start: 35058, Stop: 35285, Start Num: 9

Candidate Starts for Kerry_49:

(Start: 9 @35058 has 11 MA's), (10, 35091), (11, 35103), (12, 35127), (21, 35190), (25, 35232), (30, 35265), (32, 35280),

Gene: Magel_51 Start: 35289, Stop: 35516, Start Num: 9

Candidate Starts for Magel_51:

(Start: 9 @35289 has 11 MA's), (10, 35322), (11, 35334), (12, 35358), (21, 35421), (25, 35463), (30, 35496), (32, 35511),

Gene: Odesza_49 Start: 35078, Stop: 35290, Start Num: 9

Candidate Starts for Odesza_49:

(1, 34886), (2, 34910), (5, 35027), (Start: 9 @35078 has 11 MA's), (11, 35120), (12, 35144), (28, 35273), (29, 35279),

Gene: Perkunas_53 Start: 35366, Stop: 35578, Start Num: 9

Candidate Starts for Perkunas_53:

(Start: 9 @35366 has 11 MA's), (11, 35408), (12, 35432), (16, 35459), (19, 35483), (24, 35525), (28, 35561), (29, 35567),

Gene: Petito_50 Start: 37176, Stop: 37391, Start Num: 9

Candidate Starts for Petito_50:

(1, 36987), (2, 37011), (5, 37128), (Start: 9 @37176 has 11 MA's), (11, 37221), (12, 37245), (14, 37266), (25, 37359), (28, 37374), (29, 37380),

Gene: Pherobrine_52 Start: 37041, Stop: 37274, Start Num: 9

Candidate Starts for Pherobrine_52:

(3, 36993), (Start: 8 @37038 has 1 MA's), (Start: 9 @37041 has 11 MA's), (11, 37086), (15, 37134), (19, 37161), (25, 37224), (26, 37227), (27, 37236), (31, 37269),

Gene: Roney_50 Start: 35378, Stop: 35590, Start Num: 9

Candidate Starts for Roney_50:

(1, 35186), (2, 35210), (5, 35327), (Start: 9 @35378 has 11 MA's), (11, 35420), (12, 35444), (28, 35573), (29, 35579),

Gene: Schwartz33_52 Start: 36364, Stop: 36576, Start Num: 8

Candidate Starts for Schwartz33_52:

(Start: 8 @36364 has 1 MA's), (11, 36409), (15, 36457), (18, 36475), (20, 36496),

Gene: Tanis_50 Start: 35231, Stop: 35458, Start Num: 9

Candidate Starts for Tanis_50:

(Start: 9 @35231 has 11 MA's), (10, 35264), (11, 35276), (12, 35300), (21, 35363), (25, 35405), (30, 35438), (32, 35453),