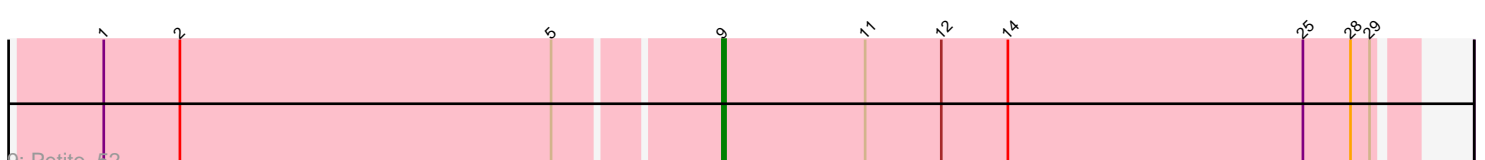
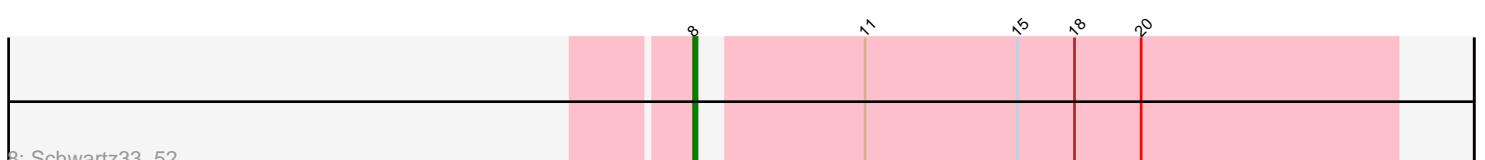
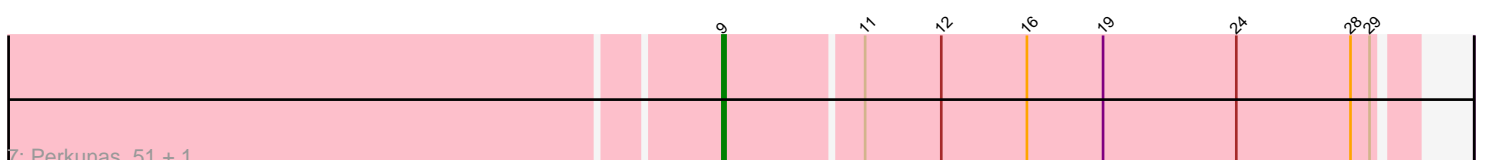
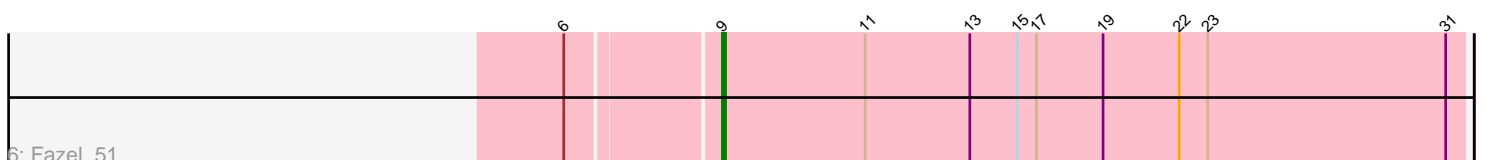
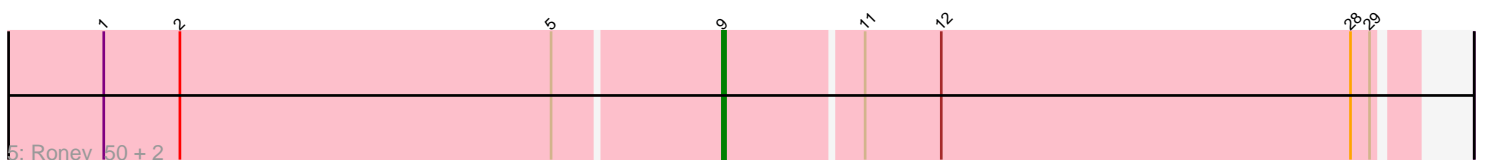
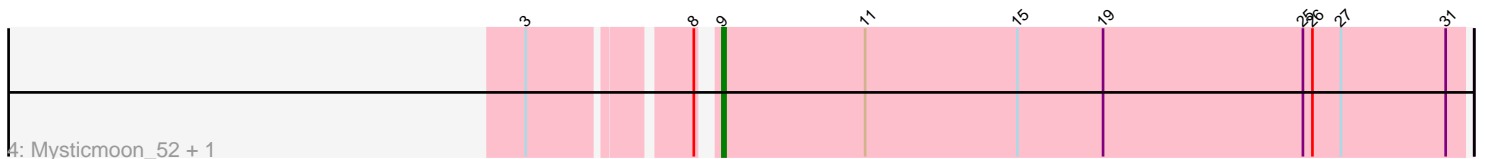
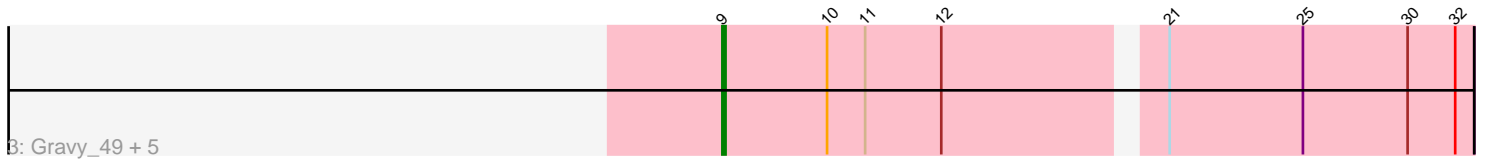
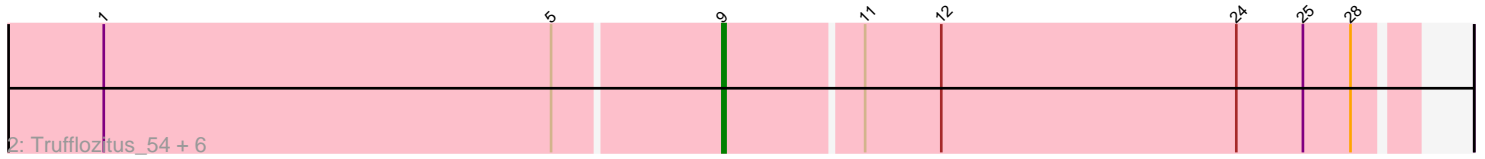
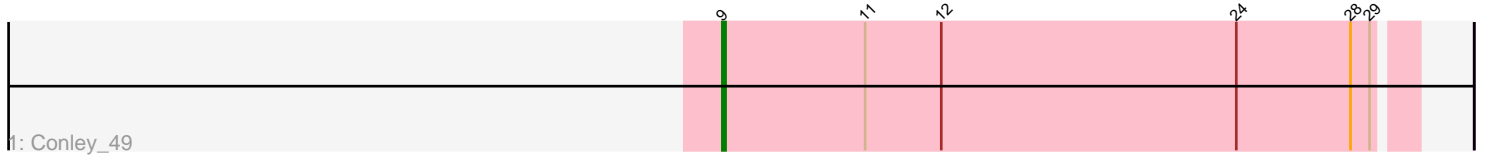


Pham 221714



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 221714 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221714 has 25 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Conley_49
- Track 2 : Trufflozitus_54, JulesRay_52, Captrips_49, Dancer_52, Avazak_51, Artorias_50, FortCran_50
- Track 3 : Gravy_49, Tanis_50, Copybara_50, Gill_50, Magel_51, Kerry_49
- Track 4 : Mysticmoon_52, Pherobrine_52
- Track 5 : Roney_50, NoPickles_49, Odesza_49
- Track 6 : Fazel_51
- Track 7 : Perkunas_51, Talon44_52
- Track 8 : Schwartz33_52
- Track 9 : Petite_52
- Track 10 : Hortihabitatio_51

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 17 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artorias_50, Avazak_51, Captrips_49, Copybara_50, Conley_49, Dancer_52, Fazel_51, FortCran_50, Gill_50, Gravy_49, JulesRay_52, Kerry_49, Magel_51, Mysticmoon_52, NoPickles_49, Odesza_49, Perkunas_51, Petite_52, Pherobrine_52, Roney_50, Talon44_52, Tanis_50, Trufflozitus_54,

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 4 of 25 (16.0%) of genes in pham
- Manual Annotations of this start: 1 of 18

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Hortihabitatio_51 (DJ), Schwartz33_52 (DJ),

Start 9:

- Found in 24 of 25 (96.0%) of genes in pham
- Manual Annotations of this start: 17 of 18
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Artorias_50 (DJ), Avazak_51 (DJ), Captrips_49 (DJ), Capybara_50 (DJ), Conley_49 (DJ), Dancer_52 (DJ), Fazel_51 (DJ), FortCran_50 (DJ), Gill_50 (DJ), Gravy_49 (DJ), JulesRay_52 (DJ), Kerry_49 (DJ), Magel_51 (DJ), Mysticmoon_52 (DJ), NoPickles_49 (DJ), Odesza_49 (DJ), Perunas_51 (DJ), Petite_52 (DJ), Pherobrine_52 (DJ), Roney_50 (DJ), Talon44_52 (DJ), Tanis_50 (DJ), Trufflozitus_54 (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 17 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 17 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 17 MA's), (11, 35875), (12, 35899), (24, 35992), (25, 36013), (28, 36028),

Gene: Captrips_49 Start: 34967, Stop: 35179, Start Num: 9

Candidate Starts for Captrips_49:

(1, 34775), (5, 34916), (Start: 9 @34967 has 17 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 17 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 17 MA's), (11, 36161), (12, 36185), (24, 36278), (28, 36314), (29, 36320),

Gene: Dancer_52 Start: 35223, Stop: 35435, Start Num: 9

Candidate Starts for Dancer_52:

(1, 35031), (5, 35172), (Start: 9 @35223 has 17 MA's), (11, 35265), (12, 35289), (24, 35382), (25, 35403), (28, 35418),

Gene: Fazel_51 Start: 35770, Stop: 36003, Start Num: 9

Candidate Starts for Fazel_51:

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

Gene: FortCran_50 Start: 35488, Stop: 35700, Start Num: 9

Candidate Starts for FortCran_50:

(1, 35296), (5, 35437), (Start: 9 @35488 has 17 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 17 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 17 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 17 MA's), (11, 36020), (13, 36053), (17, 36074), (22, 36119), (31, 36203),

Gene: JulesRay_52 Start: 35517, Stop: 35729, Start Num: 9

Candidate Starts for JulesRay_52:

(1, 35325), (5, 35466), (Start: 9 @35517 has 17 MA's), (11, 35559), (12, 35583), (24, 35676), (25, 35697), (28, 35712),

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

Candidate Starts for Kerry_49:

(Start: 9 @35058 has 17 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 17 MA's), (10, 35322), (11, 35334), (12, 35358), (21, 35421), (25, 35463), (30, 35496), (32, 35511),

Gene: Mysticmoon_52 Start: 36751, Stop: 36984, Start Num: 9

Candidate Starts for Mysticmoon_52:

(3, 36703), (Start: 8 @36748 has 1 MA's), (Start: 9 @36751 has 17 MA's), (11, 36796), (15, 36844), (19, 36871), (25, 36934), (26, 36937), (27, 36946), (31, 36979),

Gene: NoPickles_49 Start: 34688, Stop: 34900, Start Num: 9

Candidate Starts for NoPickles_49:

(1, 34496), (2, 34520), (5, 34637), (Start: 9 @34688 has 17 MA's), (11, 34730), (12, 34754), (28, 34883), (29, 34889),

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 17 MA's), (11, 35120), (12, 35144), (28, 35273), (29, 35279),

Gene: Perkunas_51 Start: 35366, Stop: 35578, Start Num: 9

Candidate Starts for Perkunas_51:

(Start: 9 @35366 has 17 MA's), (11, 35408), (12, 35432), (16, 35459), (19, 35483), (24, 35525), (28, 35561), (29, 35567),

Gene: Petito_52 Start: 37176, Stop: 37391, Start Num: 9

Candidate Starts for Petito_52:

(1, 36987), (2, 37011), (5, 37128), (Start: 9 @37176 has 17 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 17 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 17 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: Talon44_52 Start: 35381, Stop: 35593, Start Num: 9

Candidate Starts for Talon44_52:

(Start: 9 @35381 has 17 MA's), (11, 35423), (12, 35447), (16, 35474), (19, 35498), (24, 35540), (28, 35576), (29, 35582),

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

Candidate Starts for Tanis_50:

(Start: 9 @35231 has 17 MA's), (10, 35264), (11, 35276), (12, 35300), (21, 35363), (25, 35405), (30, 35438), (32, 35453),

Gene: Trufflozitus_54 Start: 35858, Stop: 36070, Start Num: 9

Candidate Starts for Trufflozitus_54:

(1, 35666), (5, 35807), (Start: 9 @35858 has 17 MA's), (11, 35900), (12, 35924), (24, 36017), (25, 36038), (28, 36053),