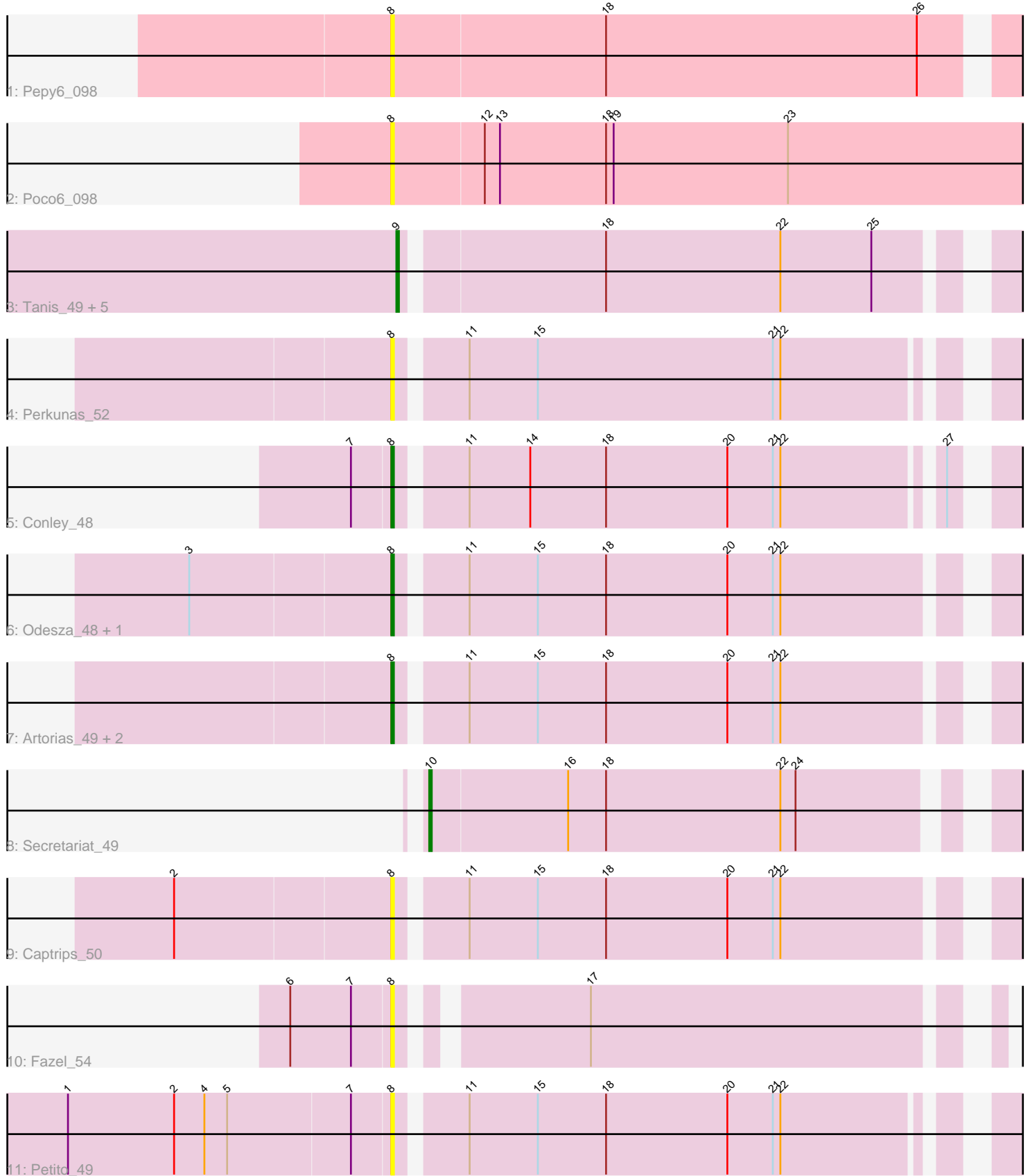


Pham 5249



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 5249 Report

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

Pham number 5249 has 19 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Pepy6_098
- Track 2 : Poco6_098
- Track 3 : Tanis_49, Gill_49, Kerry_48, Gravy_48, Magel_50, Capybara_49
- Track 4 : Perkunas_52
- Track 5 : Conley_48
- Track 6 : Odesza_48, Roney_49
- Track 7 : Artorias_49, Avazak_50, FortCran_53
- Track 8 : Secretariat_49
- Track 9 : Captrips_50
- Track 10 : Fazel_54
- Track 11 : Petito_49

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

The start number called the most often in the published annotations is 8, it was called in 5 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artorias_49, Avazak_50, Captrips_50, Conley_48, Fazel_54, FortCran_53, Odesza_48, Pepy6_098, Perkunas_52, Petito_49, Poco6_098, Roney_49,

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

-

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

- Capybara_49, Gill_49, Gravy_48, Kerry_48, Magel_50, Secretariat_49, Tanis_49,

Summary by start number:

Start 8:

- Found in 12 of 19 (63.2%) of genes in pham
- Manual Annotations of this start: 5 of 11
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Artorias_49 (DJ), Avazak_50 (DJ), Captrips_50 (DJ), Conley_48 (DJ), Fazel_54 (DJ), FortCran_53 (DJ), Odesza_48 (DJ), Pepy6_098 (CC), Perkunas_52 (DJ), Petite_49 (DJ), Poco6_098 (CC), Roney_49 (DJ),

Start 9:

- Found in 6 of 19 (31.6%) of genes in pham
- Manual Annotations of this start: 5 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cappybara_49 (DJ), Gill_49 (DJ), Gravy_48 (DJ), Kerry_48 (DJ), Magel_50 (DJ), Tanis_49 (DJ),

Start 10:

- Found in 1 of 19 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Secretariat_49 (DJ),

Summary by clusters:

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

Info for manual annotations of cluster DJ:

- Start number 8 was manually annotated 5 times for cluster DJ.
- Start number 9 was manually annotated 5 times for cluster DJ.
- Start number 10 was manually annotated 1 time for cluster DJ.

Gene Information:

Gene: Artorias_49 Start: 35265, Stop: 35495, Start Num: 8

Candidate Starts for Artorias_49:

(Start: 8 @35265 has 5 MA's), (11, 35289), (15, 35316), (18, 35343), (20, 35391), (21, 35409), (22, 35412),

Gene: Avazak_50 Start: 35610, Stop: 35840, Start Num: 8

Candidate Starts for Avazak_50:

(Start: 8 @35610 has 5 MA's), (11, 35634), (15, 35661), (18, 35688), (20, 35736), (21, 35754), (22, 35757),

Gene: Captrips_50 Start: 34744, Stop: 34974, Start Num: 8

Candidate Starts for Captrips_50:

(2, 34660), (Start: 8 @34744 has 5 MA's), (11, 34768), (15, 34795), (18, 34822), (20, 34870), (21, 34888), (22, 34891),

Gene: Cappybara_49 Start: 35148, Stop: 35375, Start Num: 9

Candidate Starts for Cappybara_49:

(Start: 9 @35148 has 5 MA's), (18, 35223), (22, 35292), (25, 35328),

Gene: Conley_48 Start: 35896, Stop: 36123, Start Num: 8

Candidate Starts for Conley_48:

(7, 35881), (Start: 8 @35896 has 5 MA's), (11, 35920), (14, 35944), (18, 35974), (20, 36022), (21, 36040), (22, 36043), (27, 36100),

Gene: Fazel_54 Start: 35558, Stop: 35767, Start Num: 8

Candidate Starts for Fazel_54:

(6, 35519), (7, 35543), (Start: 8 @35558 has 5 MA's), (17, 35621),

Gene: FortCran_53 Start: 35265, Stop: 35495, Start Num: 8

Candidate Starts for FortCran_53:

(Start: 8 @35265 has 5 MA's), (11, 35289), (15, 35316), (18, 35343), (20, 35391), (21, 35409), (22, 35412),

Gene: Gill_49 Start: 35165, Stop: 35392, Start Num: 9

Candidate Starts for Gill_49:

(Start: 9 @35165 has 5 MA's), (18, 35240), (22, 35309), (25, 35345),

Gene: Gravy_48 Start: 34838, Stop: 35065, Start Num: 9

Candidate Starts for Gravy_48:

(Start: 9 @34838 has 5 MA's), (18, 34913), (22, 34982), (25, 35018),

Gene: Kerry_48 Start: 34838, Stop: 35065, Start Num: 9

Candidate Starts for Kerry_48:

(Start: 9 @34838 has 5 MA's), (18, 34913), (22, 34982), (25, 35018),

Gene: Magel_50 Start: 35069, Stop: 35296, Start Num: 9

Candidate Starts for Magel_50:

(Start: 9 @35069 has 5 MA's), (18, 35144), (22, 35213), (25, 35249),

Gene: Odesza_48 Start: 34855, Stop: 35085, Start Num: 8

Candidate Starts for Odesza_48:

(3, 34777), (Start: 8 @34855 has 5 MA's), (11, 34879), (15, 34906), (18, 34933), (20, 34981), (21, 34999), (22, 35002),

Gene: Pepy6_098 Start: 44650, Stop: 44892, Start Num: 8

Candidate Starts for Pepy6_098:

(Start: 8 @44650 has 5 MA's), (18, 44734), (26, 44857),

Gene: Perkunas_52 Start: 35146, Stop: 35373, Start Num: 8

Candidate Starts for Perkunas_52:

(Start: 8 @35146 has 5 MA's), (11, 35170), (15, 35197), (21, 35290), (22, 35293),

Gene: Petito_49 Start: 36956, Stop: 37183, Start Num: 8

Candidate Starts for Petito_49:

(1, 36830), (2, 36872), (4, 36884), (5, 36893), (7, 36941), (Start: 8 @36956 has 5 MA's), (11, 36980), (15, 37007), (18, 37034), (20, 37082), (21, 37100), (22, 37103),

Gene: Poco6_098 Start: 46490, Stop: 46744, Start Num: 8

Candidate Starts for Poco6_098:

(Start: 8 @46490 has 5 MA's), (12, 46526), (13, 46532), (18, 46574), (19, 46577), (23, 46646),

Gene: Roney_49 Start: 35155, Stop: 35385, Start Num: 8

Candidate Starts for Roney_49:

(3, 35077), (Start: 8 @35155 has 5 MA's), (11, 35179), (15, 35206), (18, 35233), (20, 35281), (21, 35299), (22, 35302),

Gene: Secretariat_49 Start: 35065, Stop: 35292, Start Num: 10

Candidate Starts for Secretariat_49:

(Start: 10 @35065 has 1 MA's), (16, 35119), (18, 35134), (22, 35203), (24, 35209),

Gene: Tanis_49 Start: 35011, Stop: 35238, Start Num: 9

Candidate Starts for Tanis_49:

(Start: 9 @35011 has 5 MA's), (18, 35086), (22, 35155), (25, 35191),