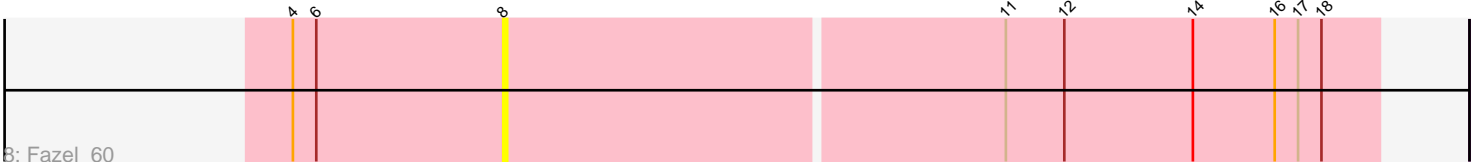
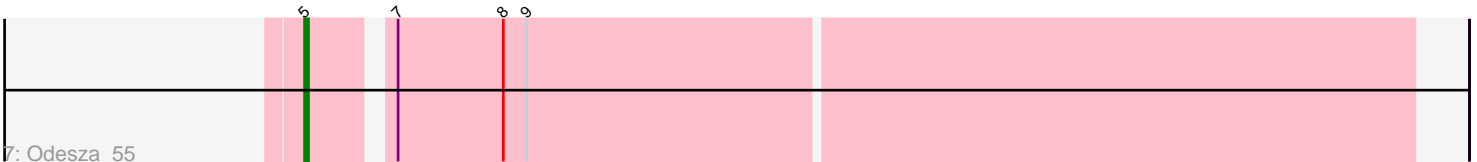
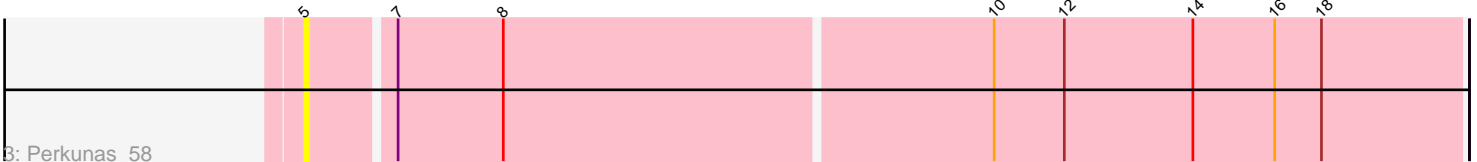
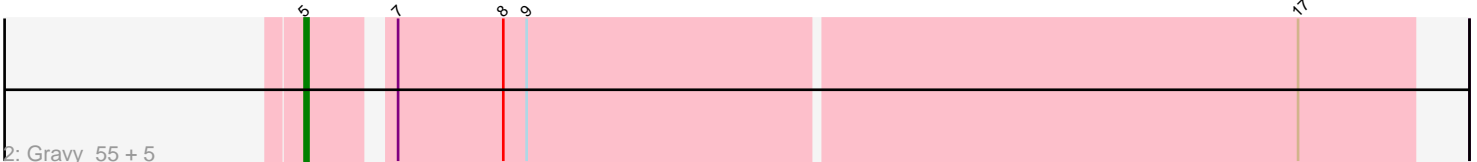


Pham 27913



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 27913 Report

This analysis was run 04/05/24 on database version 557.

Pham number 27913 has 15 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Artorias_56, FortCran_60
- Track 2 : Gravy_55, Gill_56, Tanis_56, Kerry_55, Roney_56, Magel_57
- Track 3 : Perkunas_58
- Track 4 : Captrips_57
- Track 5 : Schwartz33_57
- Track 6 : Avazak_57
- Track 7 : Odesza_55
- Track 8 : Fazel_60
- Track 9 : Secretariat_55

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

The start number called the most often in the published annotations is 5, it was called in 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Captrips_57, Gill_56, Gravy_55, Kerry_55, Magel_57, Odesza_55, Perkunas_58, Roney_56, Tanis_56,

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

- Artorias_56, Avazak_57, FortCran_60,

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

- Fazel_60, Schwartz33_57, Secretariat_55,

Summary by start number:

Start 1:

- Found in 4 of 15 (26.7%) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Artorias_56 (DJ), Avazak_57 (DJ), FortCran_60 (DJ),

Start 2:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schwartz33_57 (DJ), Secretariat_55 (DJ),

Start 5:

- Found in 12 of 15 (80.0%) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Captrips_57 (DJ), Gill_56 (DJ), Gravy_55 (DJ), Kerry_55 (DJ), Magel_57 (DJ), Odesza_55 (DJ), Perkunas_58 (DJ), Roney_56 (DJ), Tanis_56 (DJ),

Start 8:

- Found in 13 of 15 (86.7%) of genes in pham
- No Manual Annotations of this start.
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Fazel_60 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 1 was manually annotated 2 times for cluster DJ.
- Start number 2 was manually annotated 2 times for cluster DJ.
- Start number 5 was manually annotated 7 times for cluster DJ.

Gene Information:

Gene: Artorias_56 Start: 38245, Stop: 38580, Start Num: 1

Candidate Starts for Artorias_56:

(Start: 1 @38245 has 2 MA's), (3, 38278), (Start: 5 @38290 has 7 MA's), (8, 38338), (12, 38479), (14, 38512), (16, 38533),

Gene: Avazak_57 Start: 38572, Stop: 38907, Start Num: 1

Candidate Starts for Avazak_57:

(Start: 1 @38572 has 2 MA's), (3, 38605), (Start: 5 @38617 has 7 MA's), (8, 38665), (12, 38806), (14, 38839), (16, 38860), (18, 38872),

Gene: Captrips_57 Start: 37765, Stop: 38055, Start Num: 5

Candidate Starts for Captrips_57:

(Start: 1 @37720 has 2 MA's), (3, 37753), (Start: 5 @37765 has 7 MA's), (7, 37786), (8, 37813), (12, 37954), (14, 37987), (16, 38008), (19, 38050),

Gene: Fazel_60 Start: 38126, Stop: 38347, Start Num: 8

Candidate Starts for Fazel_60:

(4, 38072), (6, 38078), (8, 38126), (11, 38252), (12, 38267), (14, 38300), (16, 38321), (17, 38327), (18, 38333),

Gene: FortCran_60 Start: 38245, Stop: 38580, Start Num: 1

Candidate Starts for FortCran_60:

(Start: 1 @38245 has 2 MA's), (3, 38278), (Start: 5 @38290 has 7 MA's), (8, 38338), (12, 38479), (14, 38512), (16, 38533),

Gene: Gill_56 Start: 38128, Stop: 38403, Start Num: 5

Candidate Starts for Gill_56:

(Start: 5 @38128 has 7 MA's), (7, 38146), (8, 38173), (9, 38179), (17, 38374),

Gene: Gravy_55 Start: 37801, Stop: 38076, Start Num: 5

Candidate Starts for Gravy_55:

(Start: 5 @37801 has 7 MA's), (7, 37819), (8, 37846), (9, 37852), (17, 38047),

Gene: Kerry_55 Start: 37801, Stop: 38076, Start Num: 5

Candidate Starts for Kerry_55:

(Start: 5 @37801 has 7 MA's), (7, 37819), (8, 37846), (9, 37852), (17, 38047),

Gene: Magel_57 Start: 38044, Stop: 38319, Start Num: 5

Candidate Starts for Magel_57:

(Start: 5 @38044 has 7 MA's), (7, 38062), (8, 38089), (9, 38095), (17, 38290),

Gene: Odesza_55 Start: 37988, Stop: 38263, Start Num: 5

Candidate Starts for Odesza_55:

(Start: 5 @37988 has 7 MA's), (7, 38006), (8, 38033), (9, 38039),

Gene: Perkunas_58 Start: 38254, Stop: 38544, Start Num: 5

Candidate Starts for Perkunas_58:

(Start: 5 @38254 has 7 MA's), (7, 38275), (8, 38302), (10, 38425), (12, 38443), (14, 38476), (16, 38497), (18, 38509),

Gene: Roney_56 Start: 38154, Stop: 38429, Start Num: 5

Candidate Starts for Roney_56:

(Start: 5 @38154 has 7 MA's), (7, 38172), (8, 38199), (9, 38205), (17, 38400),

Gene: Schwartz33_57 Start: 38403, Stop: 38690, Start Num: 2

Candidate Starts for Schwartz33_57:

(Start: 2 @38403 has 2 MA's), (13, 38631), (14, 38643), (15, 38661), (16, 38664), (17, 38670),

Gene: Secretariat_55 Start: 37326, Stop: 37634, Start Num: 2

Candidate Starts for Secretariat_55:

(Start: 2 @37326 has 2 MA's), (15, 37584), (17, 37593), (18, 37599),

Gene: Tanis_56 Start: 37974, Stop: 38249, Start Num: 5

Candidate Starts for Tanis_56:

(Start: 5 @37974 has 7 MA's), (7, 37992), (8, 38019), (9, 38025), (17, 38220),