# Pham 124607



1: Quhwah_19 + 22
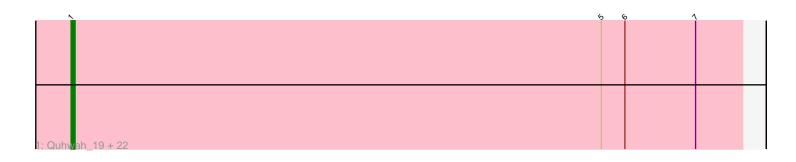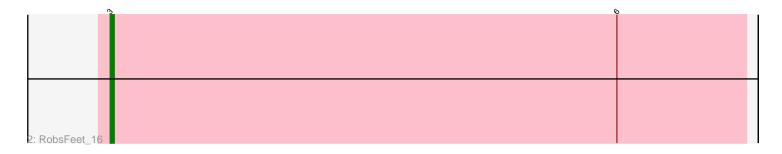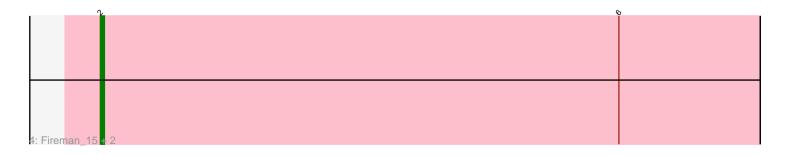
2: RobsFeet_16

3: Ariadne_24 + 3

4: Fireman_15 + 2

5: Jayden_16

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 124607 Report

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

Pham number 124607 has 32 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Quhwah_19, PiperSansNom_17, Piperis_17, Onika_16, Yeti_17, Ramiel05_16, Selwyn23_18, Antares_17, Cranjis_18, Scumberland_18, Kowalski_16, Honeyfin_18, PierreOrion_17, Ganandorf_16, LittleFortune_18, CrazyRich_16, Paschalis_16, Busephilis_17, Jefe_17, Savannah_16, Crisis_17, Phorgeous_16, BrazzalePHS_16
• Track 2 : RobsFeet_16
• Track 3 : Ariadne_24, Smarties_24, Teamocil_17, Gina_17
• Track 4 : Fireman_15, Metamorphoo_16, Tyrumbra_14
• Track 5 : Jayden_16

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

The start number called the most often in the published annotations is 1, it was called in 25 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Antares_17, Ariadne_24, BrazzalePHS_16, Busephilis_17, Cranjis_18, CrazyRich_16, Crisis_17, Ganandorf_16, Gina_17, Honeyfin_18, Jayden_16, Jefe_17, Kowalski_16, LittleFortune_18, Onika_16, Paschalis_16, Phorgeous_16, PierreOrion_17, PiperSansNom_17, Piperis_17, Quhwah_19, Ramiel05_16, Savannah_16, Scumberland_18, Selwyn23_18, Smarties_24, Teamocil_17, Yeti_17,

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

Genes that do not have the "Most Annotated" start:
• Fireman_15, Metamorphoo_16, RobsFeet_16, Tyrumbra_14,

**Summary by start number:**

Start 1:
• Found in 28 of 32 ( 87.5% ) of genes in pham
• Manual Annotations of this start: 25 of 29
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Antares_17 (EC), Ariadne_24 (EC), BrazzalePHS_16 (EC), Busephilis_17 (EC), Cranjis_18 (EC), CrazyRich_16 (EC), Crisis_17 (EC), Ganandorf_16 (EC), Gina_17 (EC), Honeyfin_18 (EC), Jayden_16 (EC), Jefe_17 (EC), Kowalski_16 (EC), LittleFortune_18 (EC), Onika_16 (EC), Paschalis_16 (EC), Phorgeous_16 (EC), PierreOrion_17 (EC), PiperSansNom_17 (EC), Piperis_17 (EC), Quhwah_19 (EC), Ramiel05_16 (EC), Savannah_16 (EC), Scumberland_18 (EC), Selwyn23_18 (EC), Smarties_24 (EC), Teamocil_17 (EC), Yeti_17 (EC),

Start 2:
• Found in 3 of 32 ( 9.4% ) of genes in pham
• Manual Annotations of this start: 3 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fireman_15 (EC), Metamorphoo_16 (EC), Tyrumbra_14 (EC),

Start 3:
• Found in 1 of 32 ( 3.1% ) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RobsFeet_16 (EC),

**Summary by clusters:**

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:
•Start number 1 was manually annotated 25 times for cluster EC.
•Start number 2 was manually annotated 3 times for cluster EC.
•Start number 3 was manually annotated 1 time for cluster EC.

*Gene Information:*
Gene: Antares_17 Start: 7643, Stop: 7813, Start Num: 1
Candidate Starts for Antares_17:
(Start: 1 @7643 has 25 MA's), (5, 7778), (6, 7784), (7, 7802),

Gene: Ariadne_24 Start: 8789, Stop: 8956, Start Num: 1
Candidate Starts for Ariadne_24:
(Start: 1 @8789 has 25 MA's), (4, 8885), (6, 8927),

Gene: BrazzalePHS_16 Start: 7431, Stop: 7601, Start Num: 1
Candidate Starts for BrazzalePHS_16:
(Start: 1 @7431 has 25 MA's), (5, 7566), (6, 7572), (7, 7590),

Gene: Busephilis_17 Start: 7318, Stop: 7488, Start Num: 1
Candidate Starts for Busephilis_17:
(Start: 1 @7318 has 25 MA's), (5, 7453), (6, 7459), (7, 7477),

Gene: Cranjis_18 Start: 7597, Stop: 7767, Start Num: 1
Candidate Starts for Cranjis_18:

(Start: 1 @7597 has 25 MA's), (5, 7732), (6, 7738), (7, 7756),

Gene: CrazyRich_16 Start: 7431, Stop: 7601, Start Num: 1
Candidate Starts for CrazyRich_16:
(Start: 1 @7431 has 25 MA's), (5, 7566), (6, 7572), (7, 7590),

Gene: Crisis_17 Start: 7270, Stop: 7440, Start Num: 1
Candidate Starts for Crisis_17:
(Start: 1 @7270 has 25 MA's), (5, 7405), (6, 7411), (7, 7429),

Gene: Fireman_15 Start: 6733, Stop: 6900, Start Num: 2
Candidate Starts for Fireman_15:
(Start: 2 @6733 has 3 MA's), (6, 6865),

Gene: Ganandorf_16 Start: 7445, Stop: 7615, Start Num: 1
Candidate Starts for Ganandorf_16:
(Start: 1 @7445 has 25 MA's), (5, 7580), (6, 7586), (7, 7604),

Gene: Gina_17 Start: 6554, Stop: 6721, Start Num: 1
Candidate Starts for Gina_17:
(Start: 1 @6554 has 25 MA's), (4, 6653), (6, 6695),

Gene: Honeyfin_18 Start: 7612, Stop: 7782, Start Num: 1
Candidate Starts for Honeyfin_18:
(Start: 1 @7612 has 25 MA's), (5, 7747), (6, 7753), (7, 7771),

Gene: Jayden_16 Start: 7060, Stop: 7230, Start Num: 1
Candidate Starts for Jayden_16:
(Start: 1 @7060 has 25 MA's), (6, 7201),

Gene: Jefe_17 Start: 7451, Stop: 7621, Start Num: 1
Candidate Starts for Jefe_17:
(Start: 1 @7451 has 25 MA's), (5, 7586), (6, 7592), (7, 7610),

Gene: Kowalski_16 Start: 7431, Stop: 7601, Start Num: 1
Candidate Starts for Kowalski_16:
(Start: 1 @7431 has 25 MA's), (5, 7566), (6, 7572), (7, 7590),

Gene: LittleFortune_18 Start: 7654, Stop: 7824, Start Num: 1
Candidate Starts for LittleFortune_18:
(Start: 1 @7654 has 25 MA's), (5, 7789), (6, 7795), (7, 7813),

Gene: Metamorphoo_16 Start: 6906, Stop: 7073, Start Num: 2
Candidate Starts for Metamorphoo_16:
(Start: 2 @6906 has 3 MA's), (6, 7038),

Gene: Onika_16 Start: 7431, Stop: 7601, Start Num: 1
Candidate Starts for Onika_16:
(Start: 1 @7431 has 25 MA's), (5, 7566), (6, 7572), (7, 7590),

Gene: Paschalis_16 Start: 7440, Stop: 7610, Start Num: 1
Candidate Starts for Paschalis_16:
(Start: 1 @7440 has 25 MA's), (5, 7575), (6, 7581), (7, 7599),

Gene: Phorgeous_16 Start: 7248, Stop: 7418, Start Num: 1
Candidate Starts for Phorgeous_16:
(Start: 1 @7248 has 25 MA's), (5, 7383), (6, 7389), (7, 7407),

Gene: PierreOrion_17 Start: 7595, Stop: 7765, Start Num: 1
Candidate Starts for PierreOrion_17:
(Start: 1 @7595 has 25 MA's), (5, 7730), (6, 7736), (7, 7754),

Gene: PiperSansNom_17 Start: 7744, Stop: 7914, Start Num: 1
Candidate Starts for PiperSansNom_17:
(Start: 1 @7744 has 25 MA's), (5, 7879), (6, 7885), (7, 7903),

Gene: Piperis_17 Start: 7403, Stop: 7573, Start Num: 1
Candidate Starts for Piperis_17:
(Start: 1 @7403 has 25 MA's), (5, 7538), (6, 7544), (7, 7562),

Gene: Quhwah_19 Start: 7703, Stop: 7873, Start Num: 1
Candidate Starts for Quhwah_19:
(Start: 1 @7703 has 25 MA's), (5, 7838), (6, 7844), (7, 7862),

Gene: Ramiel05_16 Start: 7431, Stop: 7601, Start Num: 1
Candidate Starts for Ramiel05_16:
(Start: 1 @7431 has 25 MA's), (5, 7566), (6, 7572), (7, 7590),

Gene: RobsFeet_16 Start: 6754, Stop: 6915, Start Num: 3
Candidate Starts for RobsFeet_16:
(Start: 3 @6754 has 1 MA's), (6, 6883),

Gene: Savannah_16 Start: 7455, Stop: 7625, Start Num: 1
Candidate Starts for Savannah_16:
(Start: 1 @7455 has 25 MA's), (5, 7590), (6, 7596), (7, 7614),

Gene: Scumberland_18 Start: 7621, Stop: 7791, Start Num: 1
Candidate Starts for Scumberland_18:
(Start: 1 @7621 has 25 MA's), (5, 7756), (6, 7762), (7, 7780),

Gene: Selwyn23_18 Start: 7633, Stop: 7803, Start Num: 1
Candidate Starts for Selwyn23_18:
(Start: 1 @7633 has 25 MA's), (5, 7768), (6, 7774), (7, 7792),

Gene: Smarties_24 Start: 8789, Stop: 8956, Start Num: 1
Candidate Starts for Smarties_24:
(Start: 1 @8789 has 25 MA's), (4, 8885), (6, 8927),

Gene: Teamocil_17 Start: 6554, Stop: 6721, Start Num: 1
Candidate Starts for Teamocil_17:
(Start: 1 @6554 has 25 MA's), (4, 6653), (6, 6695),

Gene: Tyrumbra_14 Start: 6224, Stop: 6391, Start Num: 2
Candidate Starts for Tyrumbra_14:
(Start: 2 @6224 has 3 MA's), (6, 6356),

Gene: Yeti_17 Start: 7403, Stop: 7573, Start Num: 1
Candidate Starts for Yeti_17:
(Start: 1 @7403 has 25 MA's), (5, 7538), (6, 7544), (7, 7562),