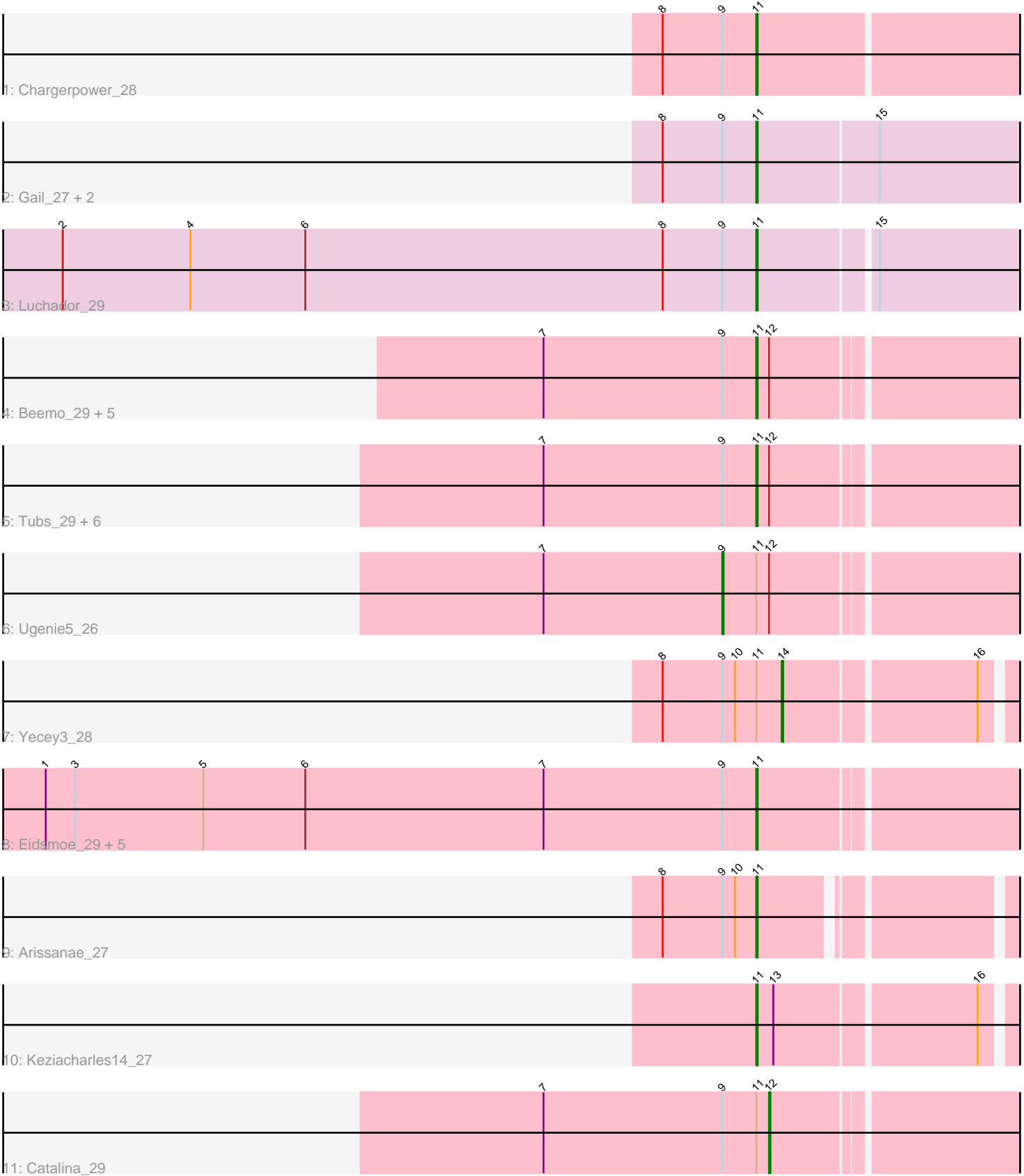


Pham 57615



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 57615 Report

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

Pham number 57615 has 29 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_28
- Track 2 : Gail_27, SororFago_27, Jeeves_27
- Track 3 : Luchador_29
- Track 4 : Beemo_29, ExplosioNervosa_29, Qobbit_29, Pioneer_29, Fayely_29, Phonnegut_29
- Track 5 : Tubs_29, Scherzo_29, HortumSL17_29, PackMan_29, Aliter_29, Phaeder_29, Myxus_29
- Track 6 : Ugenie5_26
- Track 7 : Yecey3_28
- Track 8 : Eidsmoe_29, EmyBug_27, Alma_29, Conquerage_29, Spouty_28, Priya_29
- Track 9 : Arissanae_27
- Track 10 : Keziacharles14_27
- Track 11 : Catalina_29

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

The start number called the most often in the published annotations is 11, it was called in 24 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aliter_29, Alma_29, Arissanae_27, Beemo_29, Chargerpower_28, Conquerage_29, Eidsmoe_29, EmyBug_27, ExplosioNervosa_29, Fayely_29, Gail_27, HortumSL17_29, Jeeves_27, Keziacharles14_27, Luchador_29, Myxus_29, PackMan_29, Phaeder_29, Phonnegut_29, Pioneer_29, Priya_29, Qobbit_29, Scherzo_29, SororFago_27, Spouty_28, Tubs_29,

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

- Catalina_29, Ugenie5_26, Yecey3_28,

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

-

Summary by start number:

Start 9:

- Found in 28 of 29 (96.6%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 3.6% of time when present
- Phage (with cluster) where this start called: Ugenie5_26 (A9),

Start 11:

- Found in 29 of 29 (100.0%) of genes in pham
- Manual Annotations of this start: 24 of 27
- Called 89.7% of time when present
- Phage (with cluster) where this start called: Aliter_29 (A9), Alma_29 (A9), Arissanae_27 (A9), Beemo_29 (A9), Chargerpower_28 (A), Conquerage_29 (A9), Eidsmoe_29 (A9), EmyBug_27 (A9), ExplosioNervosa_29 (A9), Fayely_29 (A9), Gail_27 (A14), HortumSL17_29 (A9), Jeeves_27 (A14), Keziacharles14_27 (A9), Luchador_29 (A14), Myxus_29 (A9), PackMan_29 (A9), Phaeder_29 (A9), Phonnegut_29 (A9), Pioneer_29 (A9), Priya_29 (A9), Qobbit_29 (A9), Scherzo_29 (A9), SororFago_27 (A14), Spouty_28 (A9), Tubs_29 (A9),

Start 12:

- Found in 15 of 29 (51.7%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Catalina_29 (A9),

Start 14:

- Found in 1 of 29 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yecey3_28 (A9),

Summary by clusters:

There are 3 clusters represented in this pham: A9, A14, A,

Info for manual annotations of cluster A:

- Start number 11 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A14:

- Start number 11 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A9:

- Start number 9 was manually annotated 1 time for cluster A9.
- Start number 11 was manually annotated 19 times for cluster A9.
- Start number 12 was manually annotated 1 time for cluster A9.
- Start number 14 was manually annotated 1 time for cluster A9.

Gene Information:

Gene: Aliter_29 Start: 21465, Stop: 21677, Start Num: 11

Candidate Starts for Aliter_29:

(7, 21315), (Start: 9 @21441 has 1 MA's), (Start: 11 @21465 has 24 MA's), (Start: 12 @21474 has 1 MA's),

Gene: Alma_29 Start: 21544, Stop: 21756, Start Num: 11

Candidate Starts for Alma_29:

(1, 21043), (3, 21064), (5, 21154), (6, 21226), (7, 21394), (Start: 9 @21520 has 1 MA's), (Start: 11 @21544 has 24 MA's),

Gene: Arissanae_27 Start: 19612, Stop: 19809, Start Num: 11

Candidate Starts for Arissanae_27:

(8, 19546), (Start: 9 @19588 has 1 MA's), (10, 19597), (Start: 11 @19612 has 24 MA's),

Gene: Beemo_29 Start: 21571, Stop: 21783, Start Num: 11

Candidate Starts for Beemo_29:

(7, 21421), (Start: 9 @21547 has 1 MA's), (Start: 11 @21571 has 24 MA's), (Start: 12 @21580 has 1 MA's),

Gene: Catalina_29 Start: 21547, Stop: 21750, Start Num: 12

Candidate Starts for Catalina_29:

(7, 21388), (Start: 9 @21514 has 1 MA's), (Start: 11 @21538 has 24 MA's), (Start: 12 @21547 has 1 MA's),

Gene: Chargerpower_28 Start: 19292, Stop: 19510, Start Num: 11

Candidate Starts for Chargerpower_28:

(8, 19226), (Start: 9 @19268 has 1 MA's), (Start: 11 @19292 has 24 MA's),

Gene: Conquerage_29 Start: 21567, Stop: 21779, Start Num: 11

Candidate Starts for Conquerage_29:

(1, 21066), (3, 21087), (5, 21177), (6, 21249), (7, 21417), (Start: 9 @21543 has 1 MA's), (Start: 11 @21567 has 24 MA's),

Gene: Eidsmoe_29 Start: 21567, Stop: 21779, Start Num: 11

Candidate Starts for Eidsmoe_29:

(1, 21066), (3, 21087), (5, 21177), (6, 21249), (7, 21417), (Start: 9 @21543 has 1 MA's), (Start: 11 @21567 has 24 MA's),

Gene: EmyBug_27 Start: 21567, Stop: 21779, Start Num: 11

Candidate Starts for EmyBug_27:

(1, 21066), (3, 21087), (5, 21177), (6, 21249), (7, 21417), (Start: 9 @21543 has 1 MA's), (Start: 11 @21567 has 24 MA's),

Gene: ExplosioNervosa_29 Start: 21570, Stop: 21782, Start Num: 11

Candidate Starts for ExplosioNervosa_29:

(7, 21420), (Start: 9 @21546 has 1 MA's), (Start: 11 @21570 has 24 MA's), (Start: 12 @21579 has 1 MA's),

Gene: Fayely_29 Start: 21570, Stop: 21782, Start Num: 11

Candidate Starts for Fayely_29:

(7, 21420), (Start: 9 @21546 has 1 MA's), (Start: 11 @21570 has 24 MA's), (Start: 12 @21579 has 1 MA's),

Gene: Gail_27 Start: 19184, Stop: 19405, Start Num: 11

Candidate Starts for Gail_27:

(8, 19118), (Start: 9 @19160 has 1 MA's), (Start: 11 @19184 has 24 MA's), (15, 19268),

Gene: HortumSL17_29 Start: 21537, Stop: 21749, Start Num: 11

Candidate Starts for HortumSL17_29:

(7, 21387), (Start: 9 @21513 has 1 MA's), (Start: 11 @21537 has 24 MA's), (Start: 12 @21546 has 1 MA's),

Gene: Jeeves_27 Start: 19212, Stop: 19427, Start Num: 11

Candidate Starts for Jeeves_27:

(8, 19146), (Start: 9 @19188 has 1 MA's), (Start: 11 @19212 has 24 MA's), (15, 19290),

Gene: Keziacharles14_27 Start: 19639, Stop: 19842, Start Num: 11

Candidate Starts for Keziacharles14_27:

(Start: 11 @19639 has 24 MA's), (13, 19651), (16, 19786),

Gene: Luchador_29 Start: 20407, Stop: 20622, Start Num: 11

Candidate Starts for Luchador_29:

(2, 19918), (4, 20008), (6, 20089), (8, 20341), (Start: 9 @20383 has 1 MA's), (Start: 11 @20407 has 24 MA's), (15, 20485),

Gene: Myxus_29 Start: 21537, Stop: 21749, Start Num: 11

Candidate Starts for Myxus_29:

(7, 21387), (Start: 9 @21513 has 1 MA's), (Start: 11 @21537 has 24 MA's), (Start: 12 @21546 has 1 MA's),

Gene: PackMan_29 Start: 21537, Stop: 21749, Start Num: 11

Candidate Starts for PackMan_29:

(7, 21387), (Start: 9 @21513 has 1 MA's), (Start: 11 @21537 has 24 MA's), (Start: 12 @21546 has 1 MA's),

Gene: Phaeder_29 Start: 21537, Stop: 21749, Start Num: 11

Candidate Starts for Phaeder_29:

(7, 21387), (Start: 9 @21513 has 1 MA's), (Start: 11 @21537 has 24 MA's), (Start: 12 @21546 has 1 MA's),

Gene: Phonnegut_29 Start: 21570, Stop: 21782, Start Num: 11

Candidate Starts for Phonnegut_29:

(7, 21420), (Start: 9 @21546 has 1 MA's), (Start: 11 @21570 has 24 MA's), (Start: 12 @21579 has 1 MA's),

Gene: Pioneer_29 Start: 21570, Stop: 21782, Start Num: 11

Candidate Starts for Pioneer_29:

(7, 21420), (Start: 9 @21546 has 1 MA's), (Start: 11 @21570 has 24 MA's), (Start: 12 @21579 has 1 MA's),

Gene: Priya_29 Start: 21568, Stop: 21780, Start Num: 11

Candidate Starts for Priya_29:

(1, 21067), (3, 21088), (5, 21178), (6, 21250), (7, 21418), (Start: 9 @21544 has 1 MA's), (Start: 11 @21568 has 24 MA's),

Gene: Qobbit_29 Start: 21567, Stop: 21779, Start Num: 11

Candidate Starts for Qobbit_29:

(7, 21417), (Start: 9 @21543 has 1 MA's), (Start: 11 @21567 has 24 MA's), (Start: 12 @21576 has 1 MA's),

Gene: Scherzo_29 Start: 21570, Stop: 21782, Start Num: 11

Candidate Starts for Scherzo_29:

(7, 21420), (Start: 9 @21546 has 1 MA's), (Start: 11 @21570 has 24 MA's), (Start: 12 @21579 has 1 MA's),

Gene: SororFago_27 Start: 19196, Stop: 19411, Start Num: 11

Candidate Starts for SororFago_27:

(8, 19130), (Start: 9 @19172 has 1 MA's), (Start: 11 @19196 has 24 MA's), (15, 19274),

Gene: Spouty_28 Start: 21567, Stop: 21779, Start Num: 11

Candidate Starts for Spouty_28:

(1, 21066), (3, 21087), (5, 21177), (6, 21249), (7, 21417), (Start: 9 @21543 has 1 MA's), (Start: 11 @21567 has 24 MA's),

Gene: Tubs_29 Start: 21537, Stop: 21749, Start Num: 11

Candidate Starts for Tubs_29:

(7, 21387), (Start: 9 @21513 has 1 MA's), (Start: 11 @21537 has 24 MA's), (Start: 12 @21546 has 1 MA's),

Gene: Ugenie5_26 Start: 21546, Stop: 21782, Start Num: 9

Candidate Starts for Ugenie5_26:

(7, 21420), (Start: 9 @21546 has 1 MA's), (Start: 11 @21570 has 24 MA's), (Start: 12 @21579 has 1 MA's),

Gene: Yecey3_28 Start: 19656, Stop: 19844, Start Num: 14

Candidate Starts for Yecey3_28:

(8, 19572), (Start: 9 @19614 has 1 MA's), (10, 19623), (Start: 11 @19638 has 24 MA's), (Start: 14 @19656 has 1 MA's), (16, 19785),