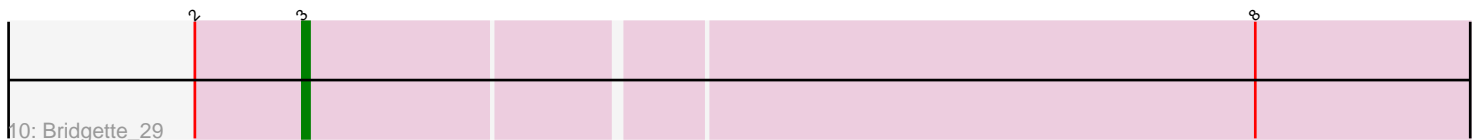
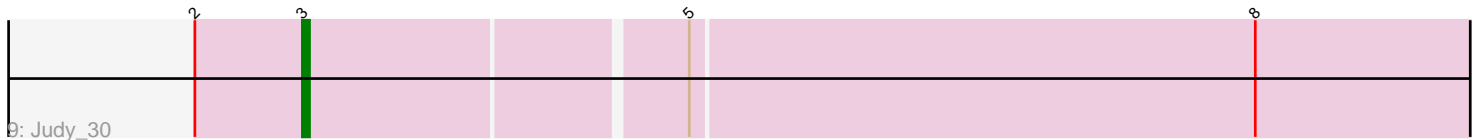
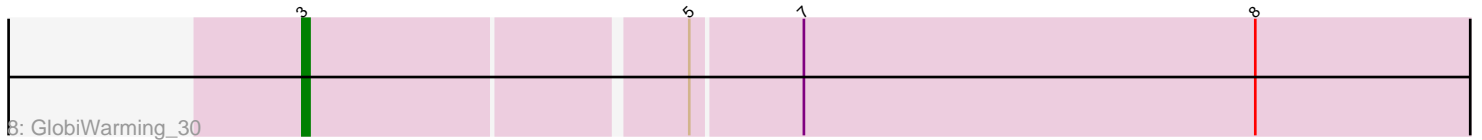
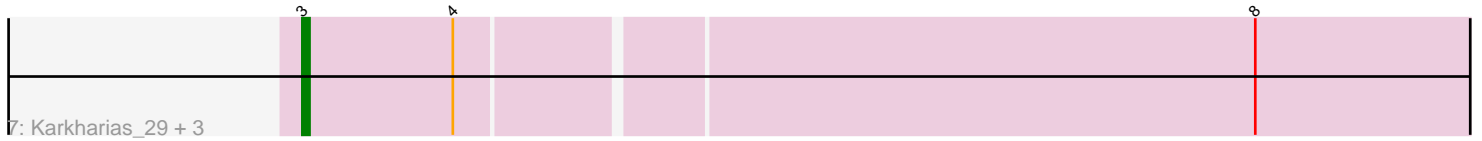
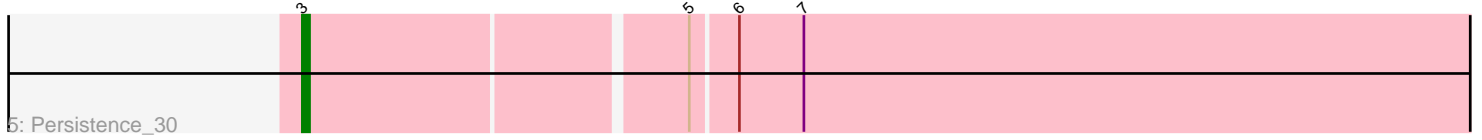
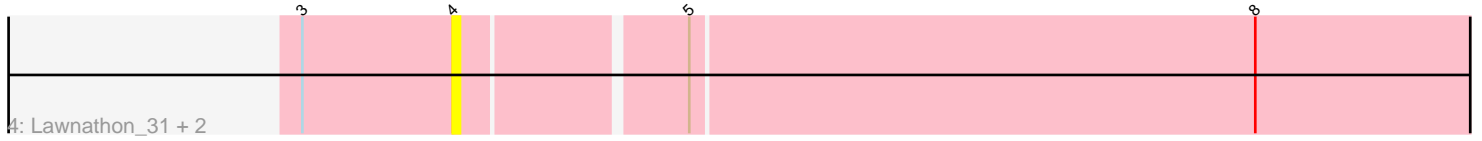
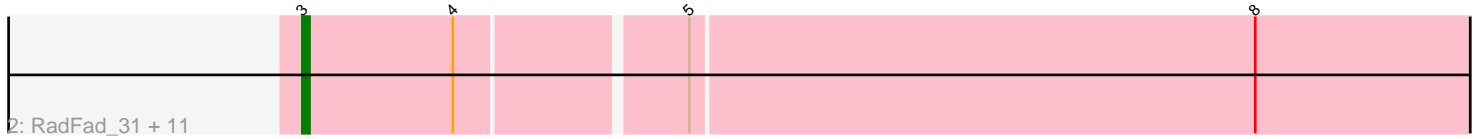
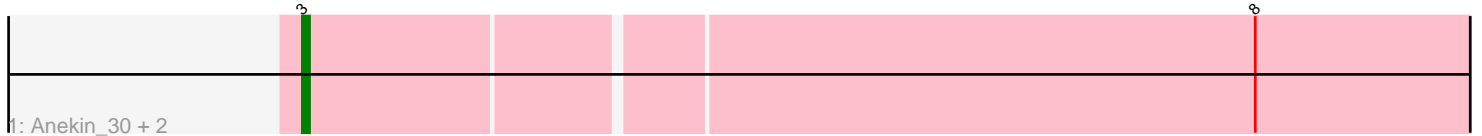


Pham 216422



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 216422 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216422 has 31 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Anekin_30, Shukran_31, Hestia_31
- Track 2 : RadFad_31, MaterMagnus_31, MidnightRain_31, Hillester_31, Raphaella_31, MUWow_30, Sakai_31, Isolde_31, Richie_31, BenchScraper_31, CookieBear_32, BlueShadow_32
- Track 3 : ThayneTheZag_31
- Track 4 : Lawnathon_31, YoungHarleezy_31, Globfish_31
- Track 5 : Persistence_30
- Track 6 : KayMoney_30, FosterFrank_30, SpicyFrank_31
- Track 7 : Karkharias_29, PeggyLeg03_29, ChuckDuck_30, Constance_29
- Track 8 : GlobiWarming_30
- Track 9 : Judy_30
- Track 10 : Bridgette_29
- Track 11 : Altostratus_23

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

The start number called the most often in the published annotations is 3, it was called in 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anekin_30, BenchScraper_31, BlueShadow_32, Bridgette_29, ChuckDuck_30, Constance_29, CookieBear_32, GlobiWarming_30, Hestia_31, Hillester_31, Isolde_31, Judy_30, Karkharias_29, MUWow_30, MaterMagnus_31, MidnightRain_31, PeggyLeg03_29, Persistence_30, RadFad_31, Raphaella_31, Richie_31, Sakai_31, Shukran_31, ThayneTheZag_31,

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

- FosterFrank_30, Globfish_31, KayMoney_30, Lawnathon_31, SpicyFrank_31, YoungHarleezy_31,

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

- Altostratus_23,

Summary by start number:

Start 1:

- Found in 1 of 31 (3.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altostratus_23 (FS),

Start 3:

- Found in 30 of 31 (96.8%) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Anekin_30 (AY), BenchScraper_31 (AY), BlueShadow_32 (AY), Bridgette_29 (FA), ChuckDuck_30 (FA), Constance_29 (FA), CookieBear_32 (AY), GlobiWarming_30 (FA), Hestia_31 (AY), Hillester_31 (AY), Isolde_31 (AY), Judy_30 (FA), Karkharias_29 (FA), MUWow_30 (AY), MaterMagnus_31 (AY), MidnightRain_31 (AY), PeggyLeg03_29 (FA), Persistence_30 (AY), RadFad_31 (AY), Raphaella_31 (AY), Richie_31 (AY), Sakai_31 (AY), Shukran_31 (AY), ThayneTheZag_31 (AY),

Start 4:

- Found in 22 of 31 (71.0%) of genes in pham
- No Manual Annotations of this start.
- Called 27.3% of time when present
- Phage (with cluster) where this start called: FosterFrank_30 (FA), Globfish_31 (AY), KayMoney_30 (FA), Lawnathon_31 (AY), SpicyFrank_31 (AY), YoungHarleezy_31 (AY),

Summary by clusters:

There are 3 clusters represented in this pham: AY, FA, FS,

Info for manual annotations of cluster AY:

- Start number 3 was manually annotated 10 times for cluster AY.

Info for manual annotations of cluster FA:

- Start number 3 was manually annotated 7 times for cluster FA.

Gene Information:

Gene: Altostratus_23 Start: 18535, Stop: 18786, Start Num: 1

Candidate Starts for Altostratus_23:

(1, 18535),

Gene: Anekin_30 Start: 21604, Stop: 21816, Start Num: 3

Candidate Starts for Anekin_30:

(Start: 3 @21604 has 17 MA's), (8, 21733),

Gene: BenchScraper_31 Start: 21440, Stop: 21652, Start Num: 3

Candidate Starts for BenchScraper_31:

(Start: 3 @21440 has 17 MA's), (4, 21461), (5, 21491), (8, 21569),

Gene: BlueShadow_32 Start: 21425, Stop: 21637, Start Num: 3
Candidate Starts for BlueShadow_32:
(Start: 3 @21425 has 17 MA's), (4, 21446), (5, 21476), (8, 21554),

Gene: Bridgette_29 Start: 21491, Stop: 21703, Start Num: 3
Candidate Starts for Bridgette_29:
(2, 21476), (Start: 3 @21491 has 17 MA's), (8, 21620),

Gene: ChuckDuck_30 Start: 21259, Stop: 21471, Start Num: 3
Candidate Starts for ChuckDuck_30:
(Start: 3 @21259 has 17 MA's), (4, 21280), (8, 21388),

Gene: Constance_29 Start: 21731, Stop: 21943, Start Num: 3
Candidate Starts for Constance_29:
(Start: 3 @21731 has 17 MA's), (4, 21752), (8, 21860),

Gene: CookieBear_32 Start: 21425, Stop: 21637, Start Num: 3
Candidate Starts for CookieBear_32:
(Start: 3 @21425 has 17 MA's), (4, 21446), (5, 21476), (8, 21554),

Gene: FosterFrank_30 Start: 21354, Stop: 21545, Start Num: 4
Candidate Starts for FosterFrank_30:
(Start: 3 @21333 has 17 MA's), (4, 21354), (8, 21462),

Gene: Globfish_31 Start: 21680, Stop: 21871, Start Num: 4
Candidate Starts for Globfish_31:
(Start: 3 @21659 has 17 MA's), (4, 21680), (5, 21710), (8, 21788),

Gene: GlobiWarming_30 Start: 21174, Stop: 21386, Start Num: 3
Candidate Starts for GlobiWarming_30:
(Start: 3 @21174 has 17 MA's), (5, 21225), (7, 21240), (8, 21303),

Gene: Hestia_31 Start: 21464, Stop: 21676, Start Num: 3
Candidate Starts for Hestia_31:
(Start: 3 @21464 has 17 MA's), (8, 21593),

Gene: Hillester_31 Start: 21425, Stop: 21637, Start Num: 3
Candidate Starts for Hillester_31:
(Start: 3 @21425 has 17 MA's), (4, 21446), (5, 21476), (8, 21554),

Gene: Isolde_31 Start: 21194, Stop: 21406, Start Num: 3
Candidate Starts for Isolde_31:
(Start: 3 @21194 has 17 MA's), (4, 21215), (5, 21245), (8, 21323),

Gene: Judy_30 Start: 21742, Stop: 21954, Start Num: 3
Candidate Starts for Judy_30:
(2, 21727), (Start: 3 @21742 has 17 MA's), (5, 21793), (8, 21871),

Gene: Karkharias_29 Start: 21119, Stop: 21331, Start Num: 3
Candidate Starts for Karkharias_29:
(Start: 3 @21119 has 17 MA's), (4, 21140), (8, 21248),

Gene: KayMoney_30 Start: 21284, Stop: 21475, Start Num: 4
Candidate Starts for KayMoney_30:
(Start: 3 @21263 has 17 MA's), (4, 21284), (8, 21392),

Gene: Lawnathon_31 Start: 21309, Stop: 21500, Start Num: 4
Candidate Starts for Lawnathon_31:
(Start: 3 @21288 has 17 MA's), (4, 21309), (5, 21339), (8, 21417),

Gene: MUWow_30 Start: 21452, Stop: 21664, Start Num: 3
Candidate Starts for MUWow_30:
(Start: 3 @21452 has 17 MA's), (4, 21473), (5, 21503), (8, 21581),

Gene: MaterMagnus_31 Start: 21435, Stop: 21647, Start Num: 3
Candidate Starts for MaterMagnus_31:
(Start: 3 @21435 has 17 MA's), (4, 21456), (5, 21486), (8, 21564),

Gene: MidnightRain_31 Start: 21424, Stop: 21636, Start Num: 3
Candidate Starts for MidnightRain_31:
(Start: 3 @21424 has 17 MA's), (4, 21445), (5, 21475), (8, 21553),

Gene: PeggyLeg03_29 Start: 21731, Stop: 21943, Start Num: 3
Candidate Starts for PeggyLeg03_29:
(Start: 3 @21731 has 17 MA's), (4, 21752), (8, 21860),

Gene: Persistence_30 Start: 21462, Stop: 21674, Start Num: 3
Candidate Starts for Persistence_30:
(Start: 3 @21462 has 17 MA's), (5, 21513), (6, 21519), (7, 21528),

Gene: RadFad_31 Start: 21425, Stop: 21637, Start Num: 3
Candidate Starts for RadFad_31:
(Start: 3 @21425 has 17 MA's), (4, 21446), (5, 21476), (8, 21554),

Gene: Raphaella_31 Start: 21359, Stop: 21571, Start Num: 3
Candidate Starts for Raphaella_31:
(Start: 3 @21359 has 17 MA's), (4, 21380), (5, 21410), (8, 21488),

Gene: Richie_31 Start: 21440, Stop: 21652, Start Num: 3
Candidate Starts for Richie_31:
(Start: 3 @21440 has 17 MA's), (4, 21461), (5, 21491), (8, 21569),

Gene: Sakai_31 Start: 21368, Stop: 21580, Start Num: 3
Candidate Starts for Sakai_31:
(Start: 3 @21368 has 17 MA's), (4, 21389), (5, 21419), (8, 21497),

Gene: Shukran_31 Start: 21534, Stop: 21746, Start Num: 3
Candidate Starts for Shukran_31:
(Start: 3 @21534 has 17 MA's), (8, 21663),

Gene: SpicyFrank_31 Start: 21681, Stop: 21872, Start Num: 4
Candidate Starts for SpicyFrank_31:
(Start: 3 @21660 has 17 MA's), (4, 21681), (8, 21789),

Gene: ThayneTheZag_31 Start: 21579, Stop: 21791, Start Num: 3

Candidate Starts for ThayneTheZag_31:
(Start: 3 @21579 has 17 MA's), (8, 21708),

Gene: YoungHarleezy_31 Start: 21459, Stop: 21650, Start Num: 4
Candidate Starts for YoungHarleezy_31:
(Start: 3 @21438 has 17 MA's), (4, 21459), (5, 21489), (8, 21567),