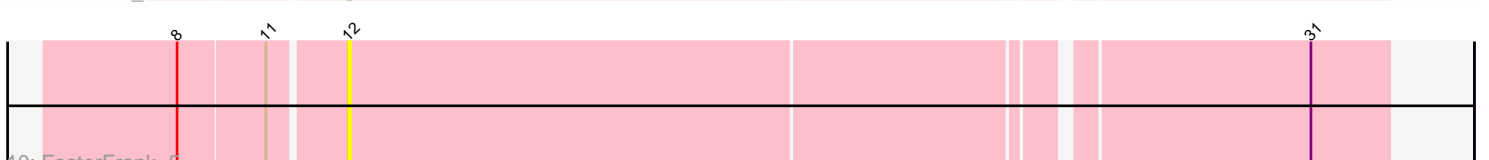
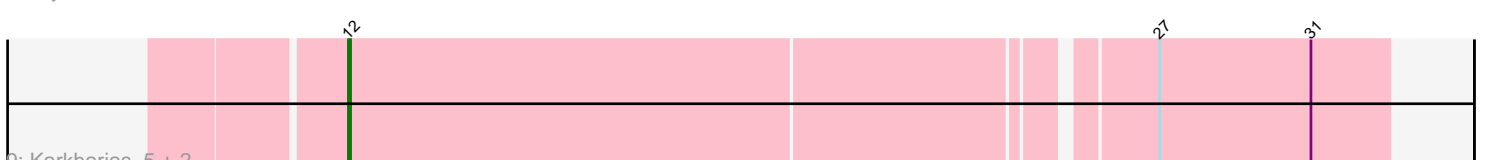
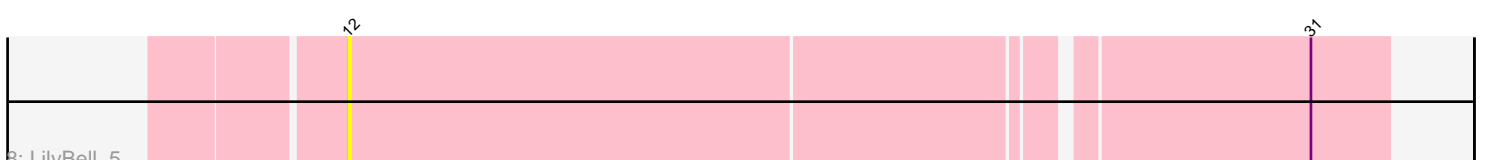
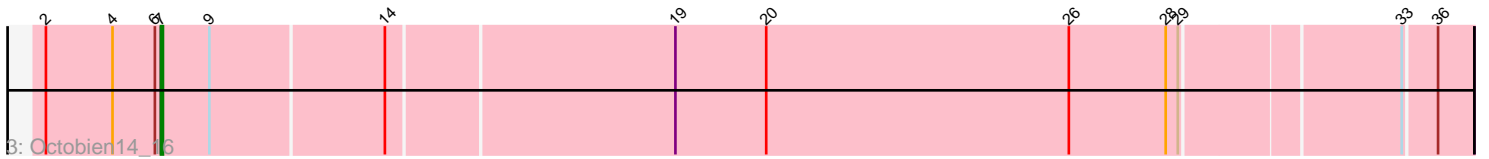
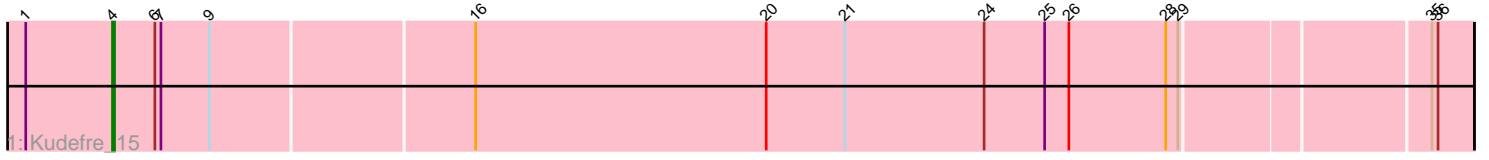


Pham 295230



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 295230 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295230 has 13 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Kudefre_15
- Track 2 : Sephiroth_16
- Track 3 : Octobien14_16
- Track 4 : Syleon_16
- Track 5 : Rabbitrun_17
- Track 6 : Trax_15, LilJank_15
- Track 7 : Neville_15
- Track 8 : LilyBell_5
- Track 9 : Karkharias_5, Henrique_5, Bridgette_5
- Track 10 : FosterFrank_5

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

The start number called the most often in the published annotations is 7, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- LilJank_15, Neville_15, Octobien14_16, Syleon_16, Trax_15,

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

- Kudefre_15, Rabbitrun_17, Sephiroth_16,

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

- Bridgette_5, FosterFrank_5, Henrique_5, Karkharias_5, LilyBell_5,

Summary by start number:

Start 1:

- Found in 3 of 13 (23.1%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Sephiroth_16 (DU1),

Start 3:

- Found in 1 of 13 (7.7%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rabbitrun_17 (DU2),

Start 4:

- Found in 4 of 13 (30.8%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Kudefre_15 (DU1),

Start 7:

- Found in 8 of 13 (61.5%) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 62.5% of time when present
- Phage (with cluster) where this start called: LilJank_15 (DU2), Neville_15 (DU2), Octobien14_16 (DU1), Syleon_16 (DU1), Trax_15 (DU2),

Start 12:

- Found in 5 of 13 (38.5%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bridgette_5 (FA), FosterFrank_5 (FA), Henrique_5 (FA), Karkharias_5 (FA), LilyBell_5 (FA),

Summary by clusters:

There are 3 clusters represented in this pham: FA, DU2, DU1,

Info for manual annotations of cluster DU1:

- Start number 1 was manually annotated 1 time for cluster DU1.
- Start number 4 was manually annotated 1 time for cluster DU1.
- Start number 7 was manually annotated 2 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 3 was manually annotated 1 time for cluster DU2.
- Start number 7 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster FA:

- Start number 12 was manually annotated 2 times for cluster FA.

Gene Information:

Gene: Bridgette_5 Start: 5076, Stop: 5570, Start Num: 12

Candidate Starts for Bridgette_5:

(Start: 12 @5076 has 2 MA's), (27, 5457), (31, 5532),

Gene: FosterFrank_5 Start: 5039, Stop: 5533, Start Num: 12

Candidate Starts for FosterFrank_5:

(8, 4961), (11, 5003), (Start: 12 @5039 has 2 MA's), (31, 5495),

Gene: Henrique_5 Start: 5037, Stop: 5531, Start Num: 12

Candidate Starts for Henrique_5:

(Start: 12 @5037 has 2 MA's), (27, 5418), (31, 5493),

Gene: Karkharias_5 Start: 5037, Stop: 5531, Start Num: 12

Candidate Starts for Karkharias_5:

(Start: 12 @5037 has 2 MA's), (27, 5418), (31, 5493),

Gene: Kudefre_15 Start: 8967, Stop: 9623, Start Num: 4

Candidate Starts for Kudefre_15:

(Start: 1 @8925 has 1 MA's), (Start: 4 @8967 has 1 MA's), (6, 8988), (Start: 7 @8991 has 4 MA's), (9, 9015), (16, 9141), (20, 9285), (21, 9324), (24, 9393), (25, 9423), (26, 9435), (28, 9483), (29, 9489), (35, 9603), (36, 9606),

Gene: LilJank_15 Start: 8880, Stop: 9503, Start Num: 7

Candidate Starts for LilJank_15:

(5, 8868), (Start: 7 @8880 has 4 MA's), (10, 8919), (13, 8976), (15, 9021), (17, 9072), (18, 9087), (21, 9201), (22, 9213), (23, 9258), (26, 9312), (28, 9360), (30, 9369), (32, 9465), (36, 9486),

Gene: LilyBell_5 Start: 5052, Stop: 5546, Start Num: 12

Candidate Starts for LilyBell_5:

(Start: 12 @5052 has 2 MA's), (31, 5508),

Gene: Neville_15 Start: 8829, Stop: 9452, Start Num: 7

Candidate Starts for Neville_15:

(2, 8778), (5, 8817), (Start: 7 @8829 has 4 MA's), (10, 8868), (13, 8925), (15, 8970), (17, 9021), (18, 9036), (21, 9150), (22, 9162), (23, 9207), (26, 9261), (28, 9309), (30, 9318), (32, 9414), (36, 9435),

Gene: Octobien14_16 Start: 10060, Stop: 10689, Start Num: 7

Candidate Starts for Octobien14_16:

(2, 10003), (Start: 4 @10036 has 1 MA's), (6, 10057), (Start: 7 @10060 has 4 MA's), (9, 10084), (14, 10168), (19, 10306), (20, 10351), (26, 10501), (28, 10549), (29, 10555), (33, 10657), (36, 10672),

Gene: Rabbitrun_17 Start: 9317, Stop: 9976, Start Num: 3

Candidate Starts for Rabbitrun_17:

(Start: 3 @9317 has 1 MA's), (5, 9335), (Start: 7 @9347 has 4 MA's), (17, 9545), (18, 9560), (21, 9674), (23, 9731), (26, 9785), (28, 9833), (30, 9842), (34, 9944),

Gene: Sephiroth_16 Start: 9096, Stop: 9794, Start Num: 1

Candidate Starts for Sephiroth_16:

(Start: 1 @9096 has 1 MA's), (Start: 4 @9138 has 1 MA's), (6, 9159), (Start: 7 @9162 has 4 MA's), (9, 9186), (16, 9312), (20, 9456), (21, 9495), (24, 9564), (26, 9606), (28, 9654), (29, 9660), (35, 9774), (36, 9777),

Gene: Syleon_16 Start: 9084, Stop: 9716, Start Num: 7

Candidate Starts for Syleon_16:

(Start: 1 @9018 has 1 MA's), (Start: 4 @9060 has 1 MA's), (6, 9081), (Start: 7 @9084 has 4 MA's), (9, 9108), (16, 9234), (20, 9378), (21, 9417), (24, 9486), (25, 9516), (26, 9528), (28, 9576), (29, 9582), (35, 9696), (36, 9699),

Gene: Trax_15 Start: 8829, Stop: 9452, Start Num: 7

Candidate Starts for Trax_15:

(5, 8817), (Start: 7 @8829 has 4 MA's), (10, 8868), (13, 8925), (15, 8970), (17, 9021), (18, 9036), (21, 9150), (22, 9162), (23, 9207), (26, 9261), (28, 9309), (30, 9318), (32, 9414), (36, 9435),