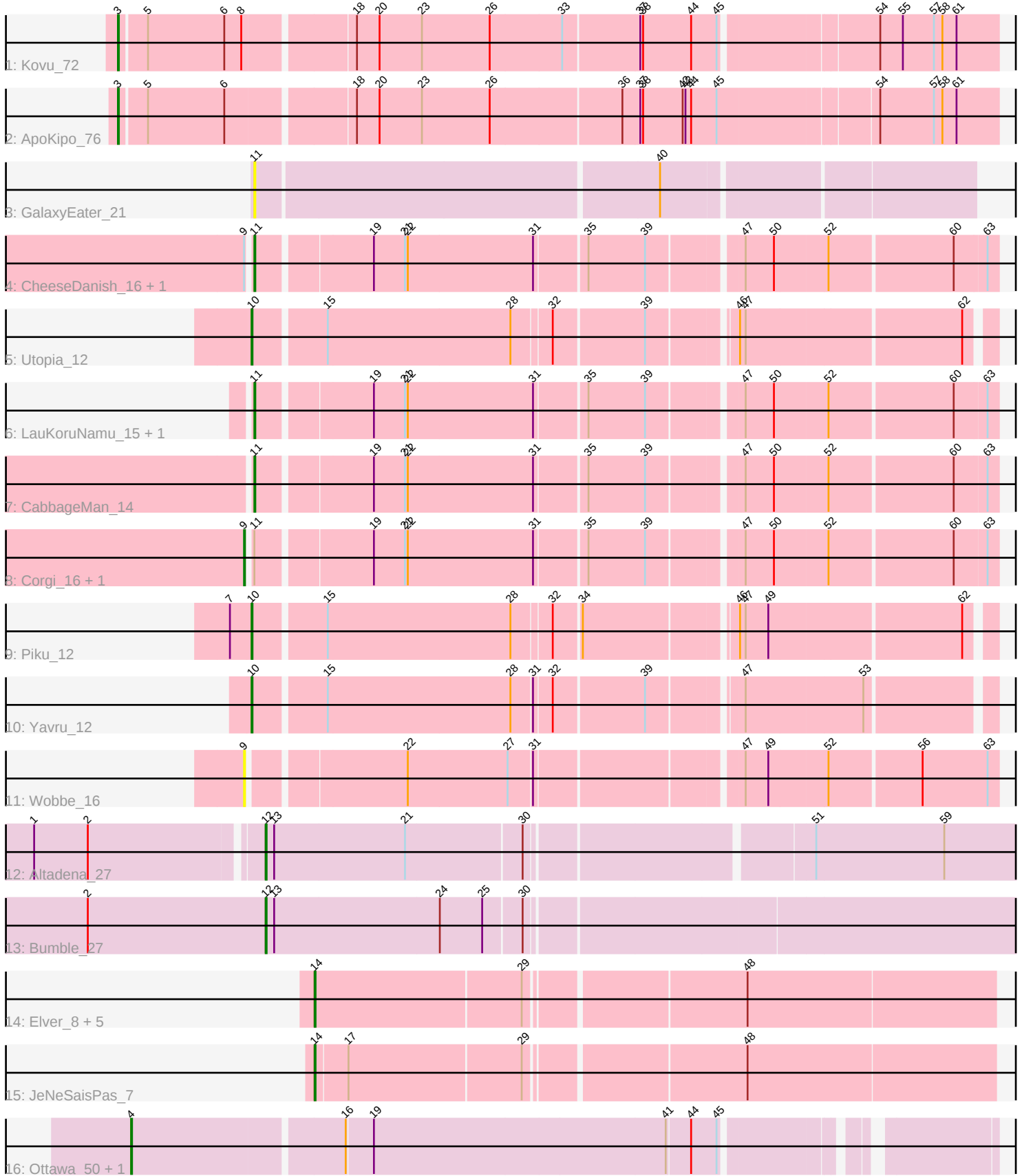


Pham 331167



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 331167 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331167 has 25 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Kovu_72
- Track 2 : ApoKipo_76
- Track 3 : GalaxyEater_21
- Track 4 : CheeseDanish_16, KNG13_16
- Track 5 : Utopia_12
- Track 6 : LauKoruNamu_15, Pauu_15
- Track 7 : CabbageMan_14
- Track 8 : Corgi_16, Nebulanyx_16
- Track 9 : Piku_12
- Track 10 : Yavru_12
- Track 11 : Wobbe_16
- Track 12 : Altadena_27
- Track 13 : Bumble_27
- Track 14 : Elver_8, Paella_8, Kureo_9, Qui_8, Marianna39_8, Gandionco_7
- Track 15 : JeNeSaisPas_7
- Track 16 : Ottawa_50, Kharcho_50

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 5 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CabbageMan_14, CheeseDanish_16, GalaxyEater_21, KNG13_16, LauKoruNamu_15, Pauu_15,

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

- Corgi_16, Nebulanyx_16,

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

- Altadena_27, ApoKipo_76, Bumble_27, Elver_8, Gandionco_7, JeNeSaisPas_7, Kharcho_50, Kovu_72, Kureo_9, Marianna39_8, Ottawa_50, Paella_8, Piku_12, Qui_8, Utopia_12, Wobbe_16, Yavru_12,

Summary by start number:

Start 3:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ApoKipo_76 (AL), Kovu_72 (AL),

Start 4:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kharcho_50 (FM), Ottawa_50 (FM),

Start 9:

- Found in 5 of 25 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Corgi_16 (FE), Nebulanyx_16 (FE), Wobbe_16 (FE),

Start 10:

- Found in 3 of 25 (12.0%) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Piku_12 (FE), Utopia_12 (FE), Yavru_12 (FE),

Start 11:

- Found in 8 of 25 (32.0%) of genes in pham
- Manual Annotations of this start: 5 of 19
- Called 75.0% of time when present
- Phage (with cluster) where this start called: CabbageMan_14 (FE), CheeseDanish_16 (FE), GalaxyEater_21 (AV), KNG13_16 (FE), LauKoruNamu_15 (FE), Pauu_15 (FE),

Start 12:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altadena_27 (FH), Bumble_27 (FH),

Start 14:

- Found in 7 of 25 (28.0%) of genes in pham
- Manual Annotations of this start: 4 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver_8 (FK), Gandionco_7 (FK), JeNeSaisPas_7 (FK), Kureo_9 (FK), Marianna39_8 (FK), Paella_8 (FK), Qui_8 (FK),

Summary by clusters:

There are 6 clusters represented in this pham: AL, FE, AV, FH, FK, FM,

Info for manual annotations of cluster AL:

- Start number 3 was manually annotated 2 times for cluster AL.

Info for manual annotations of cluster FE:

- Start number 9 was manually annotated 1 time for cluster FE.
- Start number 10 was manually annotated 3 times for cluster FE.
- Start number 11 was manually annotated 5 times for cluster FE.

Info for manual annotations of cluster FH:

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

Info for manual annotations of cluster FK:

- Start number 14 was manually annotated 4 times for cluster FK.

Info for manual annotations of cluster FM:

- Start number 4 was manually annotated 2 times for cluster FM.

Gene Information:

Gene: Altadena_27 Start: 22676, Stop: 23449, Start Num: 12

Candidate Starts for Altadena_27:

(1, 22445), (2, 22502), (Start: 12 @22676 has 2 MA's), (13, 22685), (21, 22823), (30, 22943), (51, 23225), (59, 23360),

Gene: ApoKipo_76 Start: 45785, Stop: 46678, Start Num: 3

Candidate Starts for ApoKipo_76:

(Start: 3 @45785 has 2 MA's), (5, 45812), (6, 45893), (18, 46019), (20, 46043), (23, 46088), (26, 46160), (36, 46295), (37, 46313), (38, 46316), (42, 46358), (43, 46361), (44, 46367), (45, 46394), (54, 46553), (57, 46610), (58, 46619), (61, 46634),

Gene: Bumble_27 Start: 22565, Stop: 23347, Start Num: 12

Candidate Starts for Bumble_27:

(2, 22376), (Start: 12 @22565 has 2 MA's), (13, 22574), (24, 22748), (25, 22793), (30, 22832),

Gene: CabbageMan_14 Start: 11695, Stop: 12432, Start Num: 11

Candidate Starts for CabbageMan_14:

(Start: 11 @11695 has 5 MA's), (19, 11809), (21, 11842), (22, 11845), (31, 11977), (35, 12028), (39, 12088), (47, 12178), (50, 12208), (52, 12262), (60, 12388), (63, 12421),

Gene: CheeseDanish_16 Start: 11853, Stop: 12590, Start Num: 11

Candidate Starts for CheeseDanish_16:

(Start: 9 @11850 has 1 MA's), (Start: 11 @11853 has 5 MA's), (19, 11967), (21, 12000), (22, 12003), (31, 12135), (35, 12186), (39, 12246), (47, 12336), (50, 12366), (52, 12420), (60, 12546), (63, 12579),

Gene: Corgi_16 Start: 11850, Stop: 12590, Start Num: 9

Candidate Starts for Corgi_16:

(Start: 9 @11850 has 1 MA's), (Start: 11 @11853 has 5 MA's), (19, 11967), (21, 12000), (22, 12003), (31, 12135), (35, 12186), (39, 12246), (47, 12336), (50, 12366), (52, 12420), (60, 12546), (63, 12579),

Gene: Elver_8 Start: 2662, Stop: 3357, Start Num: 14

Candidate Starts for Elver_8:

(Start: 14 @2662 has 4 MA's), (29, 2878), (48, 3097),

Gene: GalaxyEater_21 Start: 15257, Stop: 15985, Start Num: 11

Candidate Starts for GalaxyEater_21:

(Start: 11 @15257 has 5 MA's), (40, 15671),

Gene: Gandionco_7 Start: 2661, Stop: 3356, Start Num: 14

Candidate Starts for Gandionco_7:

(Start: 14 @2661 has 4 MA's), (29, 2877), (48, 3096),

Gene: JeNeSaisPas_7 Start: 3687, Stop: 4379, Start Num: 14

Candidate Starts for JeNeSaisPas_7:

(Start: 14 @3687 has 4 MA's), (17, 3720), (29, 3900), (48, 4119),

Gene: KNG13_16 Start: 11850, Stop: 12587, Start Num: 11

Candidate Starts for KNG13_16:

(Start: 9 @11847 has 1 MA's), (Start: 11 @11850 has 5 MA's), (19, 11964), (21, 11997), (22, 12000), (31, 12132), (35, 12183), (39, 12243), (47, 12333), (50, 12363), (52, 12417), (60, 12543), (63, 12576),

Gene: Kharcho_50 Start: 27419, Stop: 28264, Start Num: 4

Candidate Starts for Kharcho_50:

(Start: 4 @27419 has 2 MA's), (16, 27635), (19, 27662), (41, 27968), (44, 27992), (45, 28019),

Gene: Kovu_72 Start: 45436, Stop: 46323, Start Num: 3

Candidate Starts for Kovu_72:

(Start: 3 @45436 has 2 MA's), (5, 45463), (6, 45544), (8, 45562), (18, 45670), (20, 45694), (23, 45739), (26, 45811), (33, 45886), (37, 45964), (38, 45967), (44, 46018), (45, 46045), (54, 46198), (55, 46222), (57, 46255), (58, 46264), (61, 46279),

Gene: Kureo_9 Start: 3891, Stop: 4586, Start Num: 14

Candidate Starts for Kureo_9:

(Start: 14 @3891 has 4 MA's), (29, 4107), (48, 4326),

Gene: LauKoruNamu_15 Start: 11695, Stop: 12432, Start Num: 11

Candidate Starts for LauKoruNamu_15:

(Start: 11 @11695 has 5 MA's), (19, 11809), (21, 11842), (22, 11845), (31, 11977), (35, 12028), (39, 12088), (47, 12178), (50, 12208), (52, 12262), (60, 12388), (63, 12421),

Gene: Marianna39_8 Start: 2661, Stop: 3356, Start Num: 14

Candidate Starts for Marianna39_8:

(Start: 14 @2661 has 4 MA's), (29, 2877), (48, 3096),

Gene: Nebulanyx_16 Start: 11847, Stop: 12587, Start Num: 9

Candidate Starts for Nebulanyx_16:

(Start: 9 @11847 has 1 MA's), (Start: 11 @11850 has 5 MA's), (19, 11964), (21, 11997), (22, 12000), (31, 12132), (35, 12183), (39, 12243), (47, 12333), (50, 12363), (52, 12417), (60, 12543), (63, 12576),

Gene: Ottawa_50 Start: 27417, Stop: 28262, Start Num: 4

Candidate Starts for Ottawa_50:

(Start: 4 @27417 has 2 MA's), (16, 27633), (19, 27660), (41, 27966), (44, 27990), (45, 28017),

Gene: Paella_8 Start: 2661, Stop: 3356, Start Num: 14

Candidate Starts for Paella_8:

(Start: 14 @2661 has 4 MA's), (29, 2877), (48, 3096),

Gene: Pauu_15 Start: 11695, Stop: 12432, Start Num: 11

Candidate Starts for Pauu_15:

(Start: 11 @11695 has 5 MA's), (19, 11809), (21, 11842), (22, 11845), (31, 11977), (35, 12028), (39, 12088), (47, 12178), (50, 12208), (52, 12262), (60, 12388), (63, 12421),

Gene: Piku_12 Start: 11038, Stop: 11766, Start Num: 10

Candidate Starts for Piku_12:

(7, 11020), (Start: 10 @11038 has 3 MA's), (15, 11110), (28, 11302), (32, 11341), (34, 11368), (46, 11515), (47, 11521), (49, 11545), (62, 11740),

Gene: Qui_8 Start: 2661, Stop: 3356, Start Num: 14

Candidate Starts for Qui_8:

(Start: 14 @2661 has 4 MA's), (29, 2877), (48, 3096),

Gene: Utopia_12 Start: 11012, Stop: 11740, Start Num: 10

Candidate Starts for Utopia_12:

(Start: 10 @11012 has 3 MA's), (15, 11084), (28, 11276), (32, 11315), (39, 11408), (46, 11489), (47, 11495), (62, 11714),

Gene: Wobbe_16 Start: 11653, Stop: 12393, Start Num: 9

Candidate Starts for Wobbe_16:

(Start: 9 @11653 has 1 MA's), (22, 11806), (27, 11911), (31, 11935), (47, 12136), (49, 12160), (52, 12220), (56, 12313), (63, 12382),

Gene: Yavru_12 Start: 11017, Stop: 11745, Start Num: 10

Candidate Starts for Yavru_12:

(Start: 10 @11017 has 3 MA's), (15, 11089), (28, 11281), (31, 11302), (32, 11320), (39, 11413), (47, 11500), (53, 11620),