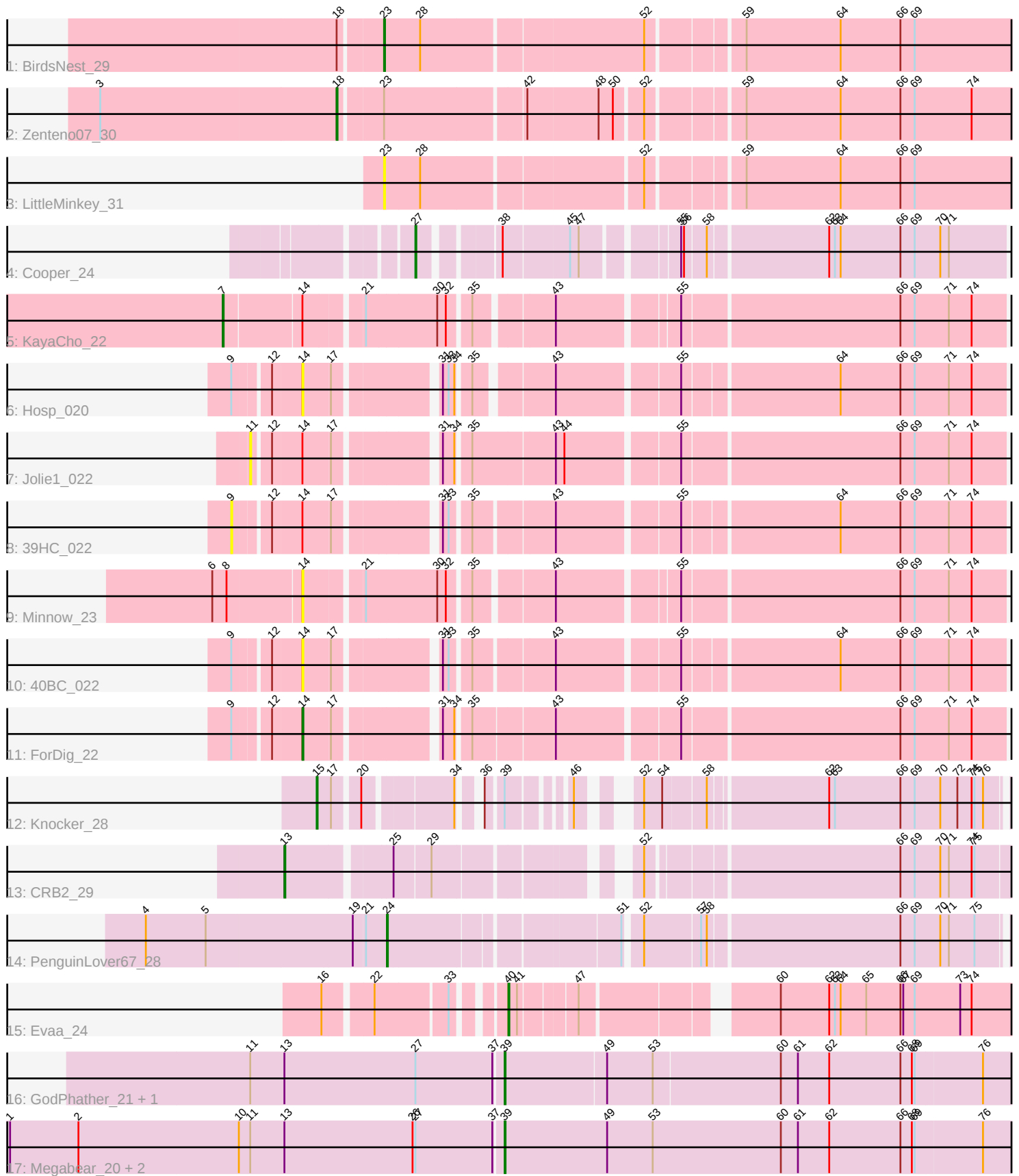


Pham 331259



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 331259 Report

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

Pham number 331259 has 20 members, 6 are drafts.

Phages represented in each track:

- Track 1 : BirdsNest_29
- Track 2 : Zenteno07_30
- Track 3 : LittleMinkey_31
- Track 4 : Cooper_24
- Track 5 : KayaCho_22
- Track 6 : Hosp_020
- Track 7 : Jolie1_022
- Track 8 : 39HC_022
- Track 9 : Minnow_23
- Track 10 : 40BC_022
- Track 11 : ForDig_22
- Track 12 : Knocker_28
- Track 13 : CRB2_29
- Track 14 : PenguinLover67_28
- Track 15 : Evaa_24
- Track 16 : GodPhather_21, Jeon_20
- Track 17 : Megabear_20, Cepens_20, Taptic_20

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

The start number called the most often in the published annotations is 39, it was called in 5 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cepens_20, GodPhather_21, Jeon_20, Megabear_20, Taptic_20,

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

- Knocker_28,

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

- 39HC_022, 40BC_022, BirdsNest_29, CRB2_29, Cooper_24, Evaa_24, ForDig_22, Hosp_020, Jolie1_022, KayaCho_22, LittleMinkey_31, Minnow_23, PenguinLover67_28, Zenteno07_30,

Summary by start number:

Start 7:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KayaCho_22 (B6),

Start 9:

- Found in 4 of 20 (20.0%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: 39HC_022 (B6),

Start 11:

- Found in 6 of 20 (30.0%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Jolie1_022 (B6),

Start 13:

- Found in 6 of 20 (30.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 16.7% of time when present
- Phage (with cluster) where this start called: CRB2_29 (B9),

Start 14:

- Found in 7 of 20 (35.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 57.1% of time when present
- Phage (with cluster) where this start called: 40BC_022 (B6), ForDig_22 (B6), Hosp_020 (B6), Minnow_23 (B6),

Start 15:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Knocker_28 (B9),

Start 18:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Zenteno07_30 (B13),

Start 23:

- Found in 3 of 20 (15.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BirdsNest_29 (B13), LittleMinkey_31 (B13),

Start 24:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PenguinLover67_28 (B9),

Start 27:

- Found in 6 of 20 (30.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Cooper_24 (B4),

Start 39:

- Found in 6 of 20 (30.0%) of genes in pham
- Manual Annotations of this start: 5 of 14
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Cepens_20 (W), GodPhather_21 (W), Jeon_20 (W), Megabear_20 (W), Taptic_20 (W),

Start 40:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Evaa_24 (DR),

Summary by clusters:

There are 6 clusters represented in this pham: B4, B6, B13, W, DR, B9,

Info for manual annotations of cluster B13:

- Start number 18 was manually annotated 1 time for cluster B13.
- Start number 23 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B4:

- Start number 27 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B6:

- Start number 7 was manually annotated 1 time for cluster B6.
- Start number 14 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B9:

- Start number 13 was manually annotated 1 time for cluster B9.
- Start number 15 was manually annotated 1 time for cluster B9.
- Start number 24 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster DR:

- Start number 40 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster W:

- Start number 39 was manually annotated 5 times for cluster W.

Gene Information:

Gene: 39HC_022 Start: 18307, Stop: 19038, Start Num: 9

Candidate Starts for 39HC_022:

(9, 18307), (12, 18340), (Start: 14 @18370 has 1 MA's), (17, 18397), (31, 18490), (33, 18496), (35, 18514), (43, 18589), (55, 18709), (64, 18865), (66, 18928), (69, 18943), (71, 18979), (74, 19003),

Gene: 40BC_022 Start: 18370, Stop: 19038, Start Num: 14

Candidate Starts for 40BC_022:

(9, 18307), (12, 18340), (Start: 14 @18370 has 1 MA's), (17, 18397), (31, 18490), (33, 18496), (35, 18514), (43, 18589), (55, 18709), (64, 18865), (66, 18928), (69, 18943), (71, 18979), (74, 19003),

Gene: BirdsNest_29 Start: 19215, Stop: 19856, Start Num: 23

Candidate Starts for BirdsNest_29:

(Start: 18 @19173 has 1 MA's), (Start: 23 @19215 has 1 MA's), (28, 19251), (52, 19473), (59, 19563), (64, 19662), (66, 19725), (69, 19740),

Gene: CRB2_29 Start: 21997, Stop: 22677, Start Num: 13

Candidate Starts for CRB2_29:

(Start: 13 @21997 has 1 MA's), (25, 22096), (29, 22132), (52, 22300), (66, 22549), (69, 22564), (70, 22591), (71, 22600), (74, 22624), (75, 22627),

Gene: Cepens_20 Start: 18624, Stop: 19199, Start Num: 39

Candidate Starts for Cepens_20:

(1, 18108), (2, 18180), (10, 18348), (11, 18360), (Start: 13 @18396 has 1 MA's), (26, 18531), (Start: 27 @18534 has 1 MA's), (37, 18615), (Start: 39 @18624 has 5 MA's), (49, 18732), (53, 18780), (60, 18915), (61, 18933), (62, 18966), (66, 19041), (68, 19053), (69, 19056), (76, 19125),

Gene: Cooper_24 Start: 18981, Stop: 19541, Start Num: 27

Candidate Starts for Cooper_24:

(Start: 27 @18981 has 1 MA's), (38, 19050), (45, 19116), (47, 19125), (55, 19212), (56, 19215), (58, 19236), (62, 19356), (63, 19362), (64, 19368), (66, 19431), (69, 19446), (70, 19473), (71, 19482),

Gene: Evaa_24 Start: 18931, Stop: 19455, Start Num: 40

Candidate Starts for Evaa_24:

(16, 18775), (22, 18820), (33, 18892), (Start: 40 @18931 has 1 MA's), (41, 18940), (47, 18994), (60, 19171), (62, 19222), (63, 19228), (64, 19234), (65, 19261), (66, 19297), (67, 19300), (69, 19312), (73, 19360), (74, 19372),

Gene: ForDig_22 Start: 18356, Stop: 19030, Start Num: 14

Candidate Starts for ForDig_22:

(9, 18293), (12, 18326), (Start: 14 @18356 has 1 MA's), (17, 18383), (31, 18476), (34, 18488), (35, 18500), (43, 18578), (55, 18698), (66, 18920), (69, 18935), (71, 18971), (74, 18995),

Gene: GodPhather_21 Start: 18903, Stop: 19472, Start Num: 39

Candidate Starts for GodPhather_21:

(11, 18639), (Start: 13 @18675 has 1 MA's), (Start: 27 @18813 has 1 MA's), (37, 18894), (Start: 39 @18903 has 5 MA's), (49, 19008), (53, 19056), (60, 19188), (61, 19206), (62, 19239), (66, 19314), (68, 19326), (69, 19329), (76, 19398),

Gene: Hosp_020 Start: 16572, Stop: 17234, Start Num: 14

Candidate Starts for Hosp_020:

(9, 16509), (12, 16542), (Start: 14 @16572 has 1 MA's), (17, 16599), (31, 16692), (33, 16698), (34, 16704), (35, 16716), (43, 16785), (55, 16905), (64, 17061), (66, 17124), (69, 17139), (71, 17175), (74, 17199),

Gene: Jeon_20 Start: 18645, Stop: 19214, Start Num: 39

Candidate Starts for Jeon_20:

(11, 18381), (Start: 13 @18417 has 1 MA's), (Start: 27 @18555 has 1 MA's), (37, 18636), (Start: 39 @18645 has 5 MA's), (49, 18750), (53, 18798), (60, 18930), (61, 18948), (62, 18981), (66, 19056), (68, 19068), (69, 19071), (76, 19140),

Gene: Jolie1_022 Start: 18308, Stop: 19030, Start Num: 11

Candidate Starts for Jolie1_022:

(11, 18308), (12, 18323), (Start: 14 @18353 has 1 MA's), (17, 18380), (31, 18473), (34, 18485), (35, 18497), (43, 18578), (44, 18587), (55, 18698), (66, 18920), (69, 18935), (71, 18971), (74, 18995),

Gene: KayaCho_22 Start: 18287, Stop: 19042, Start Num: 7

Candidate Starts for KayaCho_22:

(Start: 7 @18287 has 1 MA's), (Start: 14 @18365 has 1 MA's), (21, 18419), (30, 18491), (32, 18500), (35, 18521), (43, 18593), (55, 18710), (66, 18932), (69, 18947), (71, 18983), (74, 19007),

Gene: Knocker_28 Start: 22251, Stop: 22850, Start Num: 15

Candidate Starts for Knocker_28:

(Start: 15 @22251 has 1 MA's), (17, 22266), (20, 22290), (34, 22371), (36, 22383), (Start: 39 @22398 has 5 MA's), (46, 22443), (52, 22479), (54, 22497), (58, 22539), (62, 22656), (63, 22662), (66, 22731), (69, 22746), (70, 22773), (72, 22791), (74, 22806), (75, 22809), (76, 22818),

Gene: LittleMinkey_31 Start: 19784, Stop: 20419, Start Num: 23

Candidate Starts for LittleMinkey_31:

(Start: 23 @19784 has 1 MA's), (28, 19820), (52, 20036), (59, 20126), (64, 20225), (66, 20288), (69, 20303),

Gene: Megabear_20 Start: 18567, Stop: 19142, Start Num: 39

Candidate Starts for Megabear_20:

(1, 18051), (2, 18123), (10, 18291), (11, 18303), (Start: 13 @18339 has 1 MA's), (26, 18474), (Start: 27 @18477 has 1 MA's), (37, 18558), (Start: 39 @18567 has 5 MA's), (49, 18675), (53, 18723), (60, 18858), (61, 18876), (62, 18909), (66, 18984), (68, 18996), (69, 18999), (76, 19068),

Gene: Minnow_23 Start: 18361, Stop: 19038, Start Num: 14

Candidate Starts for Minnow_23:

(6, 18271), (8, 18286), (Start: 14 @18361 has 1 MA's), (21, 18415), (30, 18487), (32, 18496), (35, 18517), (43, 18589), (55, 18706), (66, 18928), (69, 18943), (71, 18979), (74, 19003),

Gene: PenguinLover67_28 Start: 21391, Stop: 22002, Start Num: 24

Candidate Starts for PenguinLover67_28:

(4, 21145), (5, 21208), (19, 21358), (21, 21370), (Start: 24 @21391 has 1 MA's), (51, 21610), (52, 21625), (57, 21682), (58, 21688), (66, 21883), (69, 21898), (70, 21925), (71, 21934), (75, 21961),

Gene: Taptic_20 Start: 18567, Stop: 19142, Start Num: 39

Candidate Starts for Taptic_20:

(1, 18051), (2, 18123), (10, 18291), (11, 18303), (Start: 13 @18339 has 1 MA's), (26, 18474), (Start: 27 @18477 has 1 MA's), (37, 18558), (Start: 39 @18567 has 5 MA's), (49, 18675), (53, 18723), (60, 18858), (61, 18876), (62, 18909), (66, 18984), (68, 18996), (69, 18999), (76, 19068),

Gene: Zenteno07_30 Start: 19548, Stop: 20225, Start Num: 18

Candidate Starts for Zenteno07_30:

(3, 19302), (Start: 18 @19548 has 1 MA's), (Start: 23 @19590 has 1 MA's), (42, 19728), (48, 19800),
(50, 19815), (52, 19842), (59, 19932), (64, 20031), (66, 20094), (69, 20109), (74, 20169),