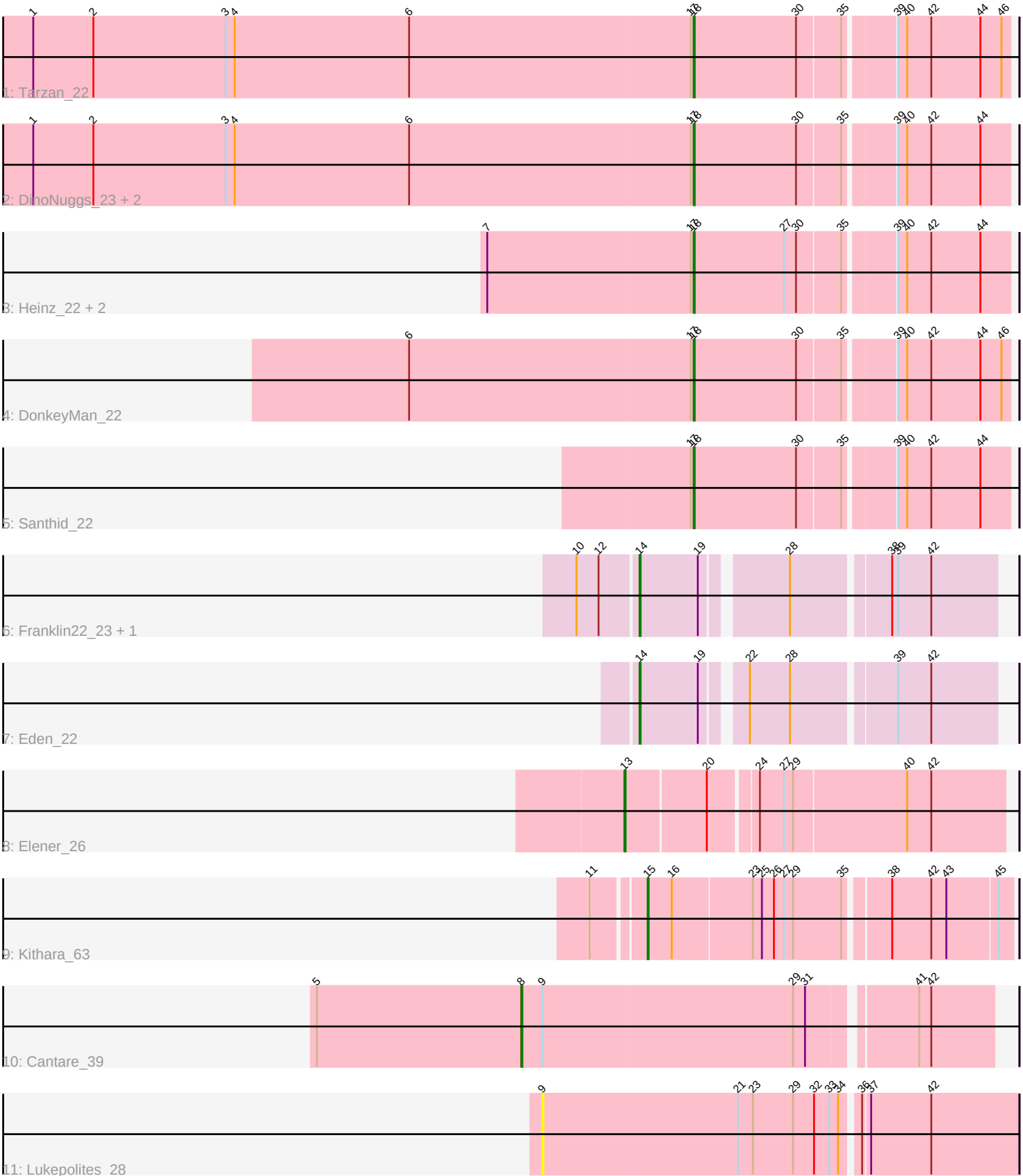


Pham 331349



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 331349 Report

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

Pham number 331349 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Tarzan_22
- Track 2 : DinoNuggs_23, DearBasketball_25, Reyja_23
- Track 3 : Heinz_22, Hibiscus_22, Jojo24_22
- Track 4 : DonkeyMan_22
- Track 5 : Santhid_22
- Track 6 : Franklin22_23, Gack_22
- Track 7 : Eden_22
- Track 8 : Elener_26
- Track 9 : Kithara_63
- Track 10 : Cantare_39
- Track 11 : Lukepolites_28

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

The start number called the most often in the published annotations is 18, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- DearBasketball_25, DinoNuggs_23, DonkeyMan_22, Heinz_22, Hibiscus_22, Jojo24_22, Reyja_23, Santhid_22, Tarzan_22,

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

-

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

- Cantare_39, Eden_22, Elener_26, Franklin22_23, Gack_22, Kithara_63, Lukepolites_28,

Summary by start number:

Start 8:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Cantare_39 (singleton),

Start 9:

- Found in 2 of 16 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Lukepolites_28 (singleton),

Start 13:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elener_26 (singleton),

Start 14:

- Found in 3 of 16 (18.8%) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eden_22 (EB), Franklin22_23 (EB), Gack_22 (EB),

Start 15:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kithara_63 (singleton),

Start 18:

- Found in 9 of 16 (56.2%) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DearBasketball_25 (DY), DinoNuggs_23 (DY), DonkeyMan_22 (DY), Heinz_22 (DY), Hibiscus_22 (DY), Jojo24_22 (DY), Reyja_23 (DY), Santhid_22 (DY), Tarzan_22 (DY),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, EB, DY,

Info for manual annotations of cluster DY:

- Start number 18 was manually annotated 7 times for cluster DY.

Info for manual annotations of cluster EB:

- Start number 14 was manually annotated 3 times for cluster EB.

Gene Information:

Gene: Cantare_39 Start: 38128, Stop: 38577, Start Num: 8

Candidate Starts for Cantare_39:

(5, 37924), (Start: 8 @38128 has 1 MA's), (9, 38149), (29, 38395), (31, 38407), (41, 38503), (42, 38515),

Gene: DearBasketball_25 Start: 18817, Stop: 19116, Start Num: 18

Candidate Starts for DearBasketball_25:

(1, 18160), (2, 18220), (3, 18352), (4, 18361), (6, 18535), (17, 18814), (Start: 18 @18817 has 7 MA's), (30, 18919), (35, 18961), (39, 19006), (40, 19015), (42, 19039), (44, 19087),

Gene: DinoNuggs_23 Start: 18783, Stop: 19082, Start Num: 18

Candidate Starts for DinoNuggs_23:

(1, 18126), (2, 18186), (3, 18318), (4, 18327), (6, 18501), (17, 18780), (Start: 18 @18783 has 7 MA's), (30, 18885), (35, 18927), (39, 18972), (40, 18981), (42, 19005), (44, 19053),

Gene: DonkeyMan_22 Start: 18572, Stop: 18871, Start Num: 18

Candidate Starts for DonkeyMan_22:

(6, 18290), (17, 18569), (Start: 18 @18572 has 7 MA's), (30, 18674), (35, 18716), (39, 18761), (40, 18770), (42, 18794), (44, 18842), (46, 18863),

Gene: Eden_22 Start: 17389, Stop: 17712, Start Num: 14

Candidate Starts for Eden_22:

(Start: 14 @17389 has 3 MA's), (19, 17446), (22, 17479), (28, 17518), (39, 17614), (42, 17647),

Gene: Elener_26 Start: 21147, Stop: 21506, Start Num: 13

Candidate Starts for Elener_26:

(Start: 13 @21147 has 1 MA's), (20, 21225), (24, 21267), (27, 21291), (29, 21300), (40, 21411), (42, 21435),

Gene: Franklin22_23 Start: 17574, Stop: 17897, Start Num: 14

Candidate Starts for Franklin22_23:

(10, 17517), (12, 17538), (Start: 14 @17574 has 3 MA's), (19, 17631), (28, 17703), (38, 17793), (39, 17799), (42, 17832),

Gene: Gack_22 Start: 17460, Stop: 17783, Start Num: 14

Candidate Starts for Gack_22:

(10, 17403), (12, 17424), (Start: 14 @17460 has 3 MA's), (19, 17517), (28, 17589), (38, 17679), (39, 17685), (42, 17718),

Gene: Heinz_22 Start: 18664, Stop: 18963, Start Num: 18

Candidate Starts for Heinz_22:

(7, 18460), (17, 18661), (Start: 18 @18664 has 7 MA's), (27, 18754), (30, 18766), (35, 18808), (39, 18853), (40, 18862), (42, 18886), (44, 18934),

Gene: Hibiscus_22 Start: 18612, Stop: 18911, Start Num: 18

Candidate Starts for Hibiscus_22:

(7, 18408), (17, 18609), (Start: 18 @18612 has 7 MA's), (27, 18702), (30, 18714), (35, 18756), (39, 18801), (40, 18810), (42, 18834), (44, 18882),

Gene: Jojo24_22 Start: 18609, Stop: 18908, Start Num: 18

Candidate Starts for Jojo24_22:

(7, 18405), (17, 18606), (Start: 18 @18609 has 7 MA's), (27, 18699), (30, 18711), (35, 18753), (39, 18798), (40, 18807), (42, 18831), (44, 18879),

Gene: Kithara_63 Start: 46188, Stop: 46532, Start Num: 15

Candidate Starts for Kithara_63:

(11, 46140), (Start: 15 @46188 has 1 MA's), (16, 46212), (23, 46290), (25, 46299), (26, 46311), (27, 46320), (29, 46329), (35, 46377), (38, 46416), (42, 46455), (43, 46470), (45, 46518),

Gene: Lukepolites_28 Start: 23723, Stop: 24181, Start Num: 9

Candidate Starts for Lukepolites_28:

(9, 23723), (21, 23915), (23, 23930), (29, 23969), (32, 23990), (33, 24005), (34, 24014), (36, 24029), (37, 24035), (42, 24095),

Gene: Reyja_23 Start: 18783, Stop: 19082, Start Num: 18

Candidate Starts for Reyja_23:

(1, 18126), (2, 18186), (3, 18318), (4, 18327), (6, 18501), (17, 18780), (Start: 18 @18783 has 7 MA's), (30, 18885), (35, 18927), (39, 18972), (40, 18981), (42, 19005), (44, 19053),

Gene: Santhid_22 Start: 18617, Stop: 18916, Start Num: 18

Candidate Starts for Santhid_22:

(17, 18614), (Start: 18 @18617 has 7 MA's), (30, 18719), (35, 18761), (39, 18806), (40, 18815), (42, 18839), (44, 18887),

Gene: Tarzan_22 Start: 18586, Stop: 18885, Start Num: 18

Candidate Starts for Tarzan_22:

(1, 17929), (2, 17989), (3, 18121), (4, 18130), (6, 18304), (17, 18583), (Start: 18 @18586 has 7 MA's), (30, 18688), (35, 18730), (39, 18775), (40, 18784), (42, 18808), (44, 18856), (46, 18877),