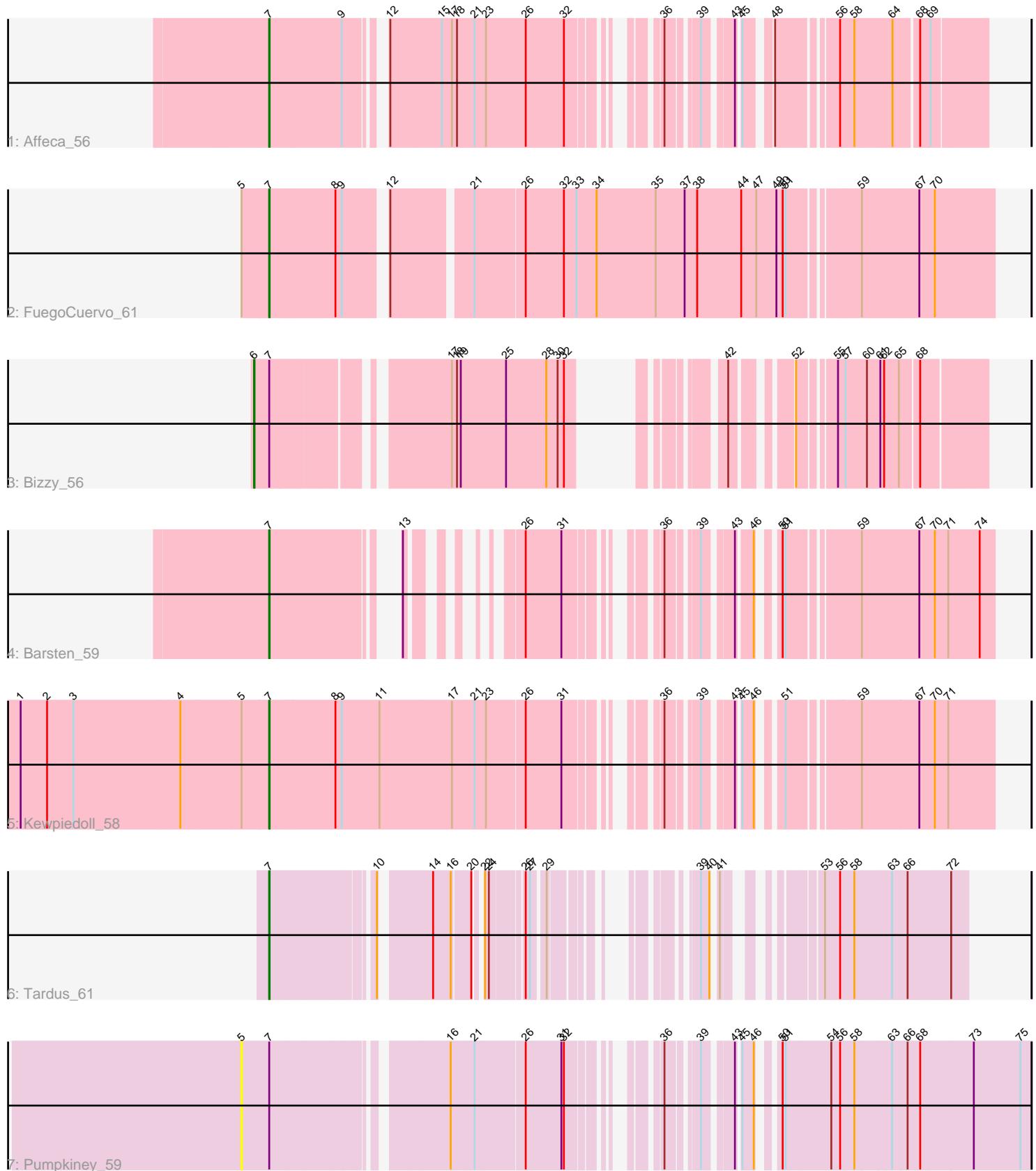


Pham 276903



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 276903 Report

This analysis was run 02/07/26 on database version 634.

Pham number 276903 has 7 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Affeca_56
- Track 2 : FuegoCuervo_61
- Track 3 : Bizzy_56
- Track 4 : Barsten_59
- Track 5 : Kewpiedoll_58
- Track 6 : Tardus_61
- Track 7 : Pumpkiney_59

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 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Affeca_56, Barsten_59, FuegoCuervo_61, Kewpiedoll_58, Tardus_61,

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

- Bizzy_56, Pumpkiney_59,

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

-

Summary by start number:

Start 5:

- Found in 3 of 7 (42.9%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Pumpkiney_59 (DE4),

Start 6:

- Found in 1 of 7 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present

- Phage (with cluster) where this start called: *Bizzy_56* (DE1),

Start 7:

- Found in 7 of 7 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 71.4% of time when present
- Phage (with cluster) where this start called: *Affeca_56* (DE1), *Barsten_59* (DE1), *FuegoCuervo_61* (DE1), *Kewpiedoll_58* (DE1), *Tardus_61* (DE4),

Summary by clusters:

There are 2 clusters represented in this pham: DE1, DE4,

Info for manual annotations of cluster DE1:

- Start number 6 was manually annotated 1 time for cluster DE1.
- Start number 7 was manually annotated 4 times for cluster DE1.

Info for manual annotations of cluster DE4:

- Start number 7 was manually annotated 1 time for cluster DE4.

Gene Information:

Gene: *Affeca_56* Start: 46765, Stop: 48117, Start Num: 7

Candidate Starts for *Affeca_56*:

(Start: 7 @46765 has 5 MA's), (9, 46936), (12, 46999), (15, 47119), (17, 47143), (18, 47155), (21, 47194), (23, 47218), (26, 47311), (32, 47398), (36, 47524), (39, 47584), (43, 47638), (45, 47644), (48, 47689), (56, 47812), (58, 47842), (64, 47929), (68, 47980), (69, 48004),

Gene: *Barsten_59* Start: 47136, Stop: 48338, Start Num: 7

Candidate Starts for *Barsten_59*:

(Start: 7 @47136 has 5 MA's), (13, 47367), (26, 47487), (31, 47568), (36, 47700), (39, 47760), (43, 47814), (46, 47847), (50, 47874), (51, 47880), (59, 48030), (67, 48162), (70, 48198), (71, 48228), (74, 48303),

Gene: *Bizzy_56* Start: 45626, Stop: 46924, Start Num: 6

Candidate Starts for *Bizzy_56*:

(Start: 6 @45626 has 1 MA's), (Start: 7 @45659 has 5 MA's), (17, 46007), (18, 46019), (19, 46028), (25, 46136), (28, 46232), (30, 46259), (32, 46274), (42, 46439), (52, 46541), (55, 46610), (57, 46628), (60, 46676), (61, 46706), (62, 46715), (65, 46748), (68, 46787),

Gene: *FuegoCuervo_61* Start: 46120, Stop: 47721, Start Num: 7

Candidate Starts for *FuegoCuervo_61*:

(5, 46060), (Start: 7 @46120 has 5 MA's), (8, 46273), (9, 46288), (12, 46369), (21, 46540), (26, 46648), (32, 46735), (33, 46765), (34, 46813), (35, 46954), (37, 47023), (38, 47053), (44, 47158), (47, 47194), (49, 47242), (50, 47257), (51, 47263), (59, 47413), (67, 47545), (70, 47581),

Gene: *Kewpiedoll_58* Start: 47140, Stop: 48579, Start Num: 7

Candidate Starts for *Kewpiedoll_58*:

(1, 46558), (2, 46621), (3, 46684), (4, 46936), (5, 47080), (Start: 7 @47140 has 5 MA's), (8, 47293), (9, 47308), (11, 47398), (17, 47566), (21, 47617), (23, 47641), (26, 47728), (31, 47809), (36, 47941), (39, 48001), (43, 48055), (45, 48061), (46, 48088), (51, 48121), (59, 48271), (67, 48403), (70, 48439), (71,

48469),

Gene: Pumpkiney_59 Start: 44224, Stop: 45786, Start Num: 5

Candidate Starts for Pumpkiney_59:

(5, 44224), (Start: 7 @44290 has 5 MA's), (16, 44656), (21, 44707), (26, 44818), (31, 44899), (32, 44905), (36, 45031), (39, 45091), (43, 45145), (45, 45151), (46, 45178), (50, 45205), (51, 45211), (54, 45319), (56, 45340), (58, 45370), (63, 45457), (66, 45493), (68, 45523), (73, 45649), (75, 45760),

Gene: Tardus_61 Start: 46979, Stop: 48136, Start Num: 7

Candidate Starts for Tardus_61:

(Start: 7 @46979 has 5 MA's), (10, 47198), (14, 47294), (16, 47336), (20, 47375), (22, 47384), (24, 47393), (26, 47456), (27, 47462), (29, 47486), (39, 47657), (40, 47672), (41, 47678), (53, 47813), (56, 47849), (58, 47879), (63, 47966), (66, 48002), (72, 48098),