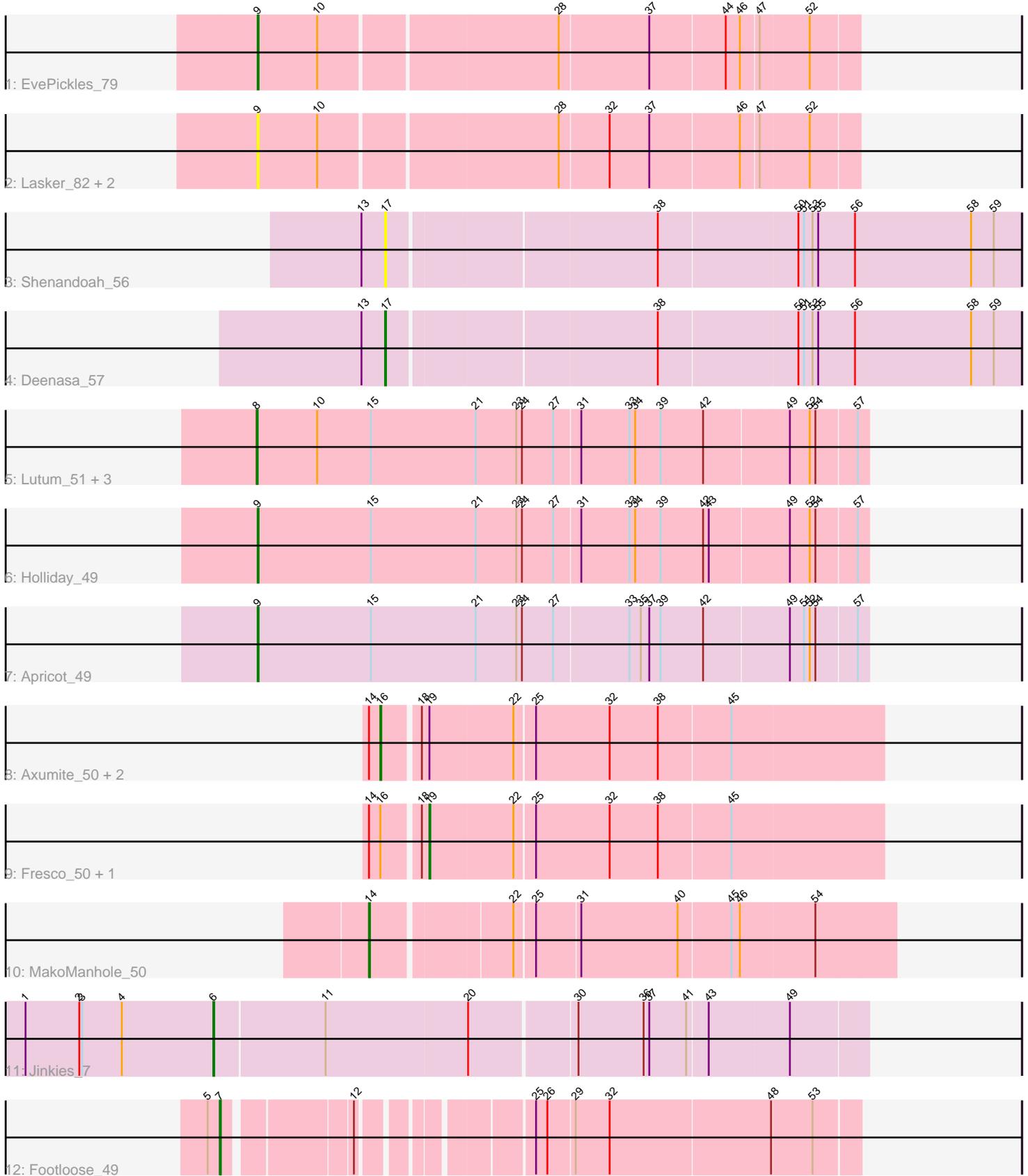


Pham 291564



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 291564 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291564 has 20 members, 5 are drafts.

Phages represented in each track:

- Track 1 : EvePickles_79
- Track 2 : Lasker_82, CosmicBrownie_77, GumGum_85
- Track 3 : Shenandoah_56
- Track 4 : Deenasa_57
- Track 5 : Lutum_51, Kenna_50, BENtherdunthat_51, Getalong_54
- Track 6 : Holliday_49
- Track 7 : Apricot_49
- Track 8 : Axumite_50, Shatter_50, CharlottesWeb_49
- Track 9 : Fresco_50, Ligma_50
- Track 10 : MakoManhole_50
- Track 11 : Jinkies_7
- Track 12 : Footloose_49

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

The start number called the most often in the published annotations is 8, it was called in 4 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BENtherdunthat_51, Getalong_54, Kenna_50, Lutum_51,

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

-

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

- Apricot_49, Axumite_50, CharlottesWeb_49, CosmicBrownie_77, Deenasa_57, EvePickles_79, Footloose_49, Fresco_50, GumGum_85, Holliday_49, Jinkies_7, Lasker_82, Ligma_50, MakoManhole_50, Shatter_50, Shenandoah_56,

Summary by start number:

Start 6:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 15

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jinkies_7 (FL),

Start 7:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Footloose_49 (singleton),

Start 8:

- Found in 4 of 20 (20.0%) of genes in pham
- Manual Annotations of this start: 4 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BENtherdunthat_51 (DN1), Getalong_54 (DN1), Kenna_50 (DN1), Lutum_51 (DN1),

Start 9:

- Found in 6 of 20 (30.0%) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot_49 (DN3), CosmicBrownie_77 (AY), EvePickles_79 (AY), GumGum_85 (AY), Holliday_49 (DN1), Lasker_82 (AY),

Start 14:

- Found in 6 of 20 (30.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 16.7% of time when present
- Phage (with cluster) where this start called: MakoManhole_50 (DR),

Start 16:

- Found in 5 of 20 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Axumite_50 (DR), CharlottesWeb_49 (DR), Shatter_50 (DR),

Start 17:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Deenasa_57 (B3), Shenandoah_56 (B3),

Start 19:

- Found in 5 of 20 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Fresco_50 (DR), Ligma_50 (DR),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, FL, DN1, DN3, B3, AY, DR,

Info for manual annotations of cluster AY:

- Start number 9 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster B3:

- Start number 17 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster DN1:

- Start number 8 was manually annotated 4 times for cluster DN1.
- Start number 9 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 9 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DR:

- Start number 14 was manually annotated 1 time for cluster DR.
- Start number 16 was manually annotated 2 times for cluster DR.
- Start number 19 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster FL:

- Start number 6 was manually annotated 1 time for cluster FL.

Gene Information:

Gene: Apricot_49 Start: 33085, Stop: 32453, Start Num: 9

Candidate Starts for Apricot_49:

(Start: 9 @33085 has 3 MA's), (15, 32965), (21, 32854), (23, 32812), (24, 32806), (27, 32773), (33, 32695), (35, 32683), (37, 32674), (39, 32662), (42, 32617), (49, 32530), (51, 32515), (52, 32509), (54, 32503), (57, 32464),

Gene: Axumite_50 Start: 44137, Stop: 43628, Start Num: 16

Candidate Starts for Axumite_50:

(Start: 14 @44149 has 1 MA's), (Start: 16 @44137 has 2 MA's), (18, 44101), (Start: 19 @44095 has 2 MA's), (22, 44008), (25, 43990), (32, 43912), (38, 43861), (45, 43786),

Gene: BENtherdunthat_51 Start: 33462, Stop: 32830, Start Num: 8

Candidate Starts for BENtherdunthat_51:

(Start: 8 @33462 has 4 MA's), (10, 33399), (15, 33342), (21, 33231), (23, 33189), (24, 33183), (27, 33150), (31, 33123), (33, 33072), (34, 33066), (39, 33039), (42, 32994), (49, 32907), (52, 32886), (54, 32880), (57, 32841),

Gene: CharlottesWeb_49 Start: 43503, Stop: 42994, Start Num: 16

Candidate Starts for CharlottesWeb_49:

(Start: 14 @43515 has 1 MA's), (Start: 16 @43503 has 2 MA's), (18, 43467), (Start: 19 @43461 has 2 MA's), (22, 43374), (25, 43356), (32, 43278), (38, 43227), (45, 43152),

Gene: CosmicBrownie_77 Start: 44062, Stop: 44670, Start Num: 9

Candidate Starts for CosmicBrownie_77:

(Start: 9 @44062 has 3 MA's), (10, 44125), (28, 44365), (32, 44416), (37, 44458), (46, 44551), (47, 44569), (52, 44620),

Gene: Deenasa_57 Start: 52719, Stop: 52066, Start Num: 17

Candidate Starts for Deenasa_57:

(13, 52743), (Start: 17 @52719 has 1 MA's), (38, 52446), (50, 52302), (51, 52296), (53, 52287), (55, 52281), (56, 52242), (58, 52119), (59, 52095),

Gene: EvePickles_79 Start: 46090, Stop: 46698, Start Num: 9

Candidate Starts for EvePickles_79:

(Start: 9 @46090 has 3 MA's), (10, 46153), (28, 46393), (37, 46486), (44, 46564), (46, 46579), (47, 46597), (52, 46648),

Gene: Footloose_49 Start: 28880, Stop: 29479, Start Num: 7

Candidate Starts for Footloose_49:

(5, 28868), (Start: 7 @28880 has 1 MA's), (12, 29000), (25, 29150), (26, 29162), (29, 29189), (32, 29225), (48, 29393), (53, 29435),

Gene: Fresco_50 Start: 44095, Stop: 43628, Start Num: 19

Candidate Starts for Fresco_50:

(Start: 14 @44149 has 1 MA's), (Start: 16 @44137 has 2 MA's), (18, 44101), (Start: 19 @44095 has 2 MA's), (22, 44008), (25, 43990), (32, 43912), (38, 43861), (45, 43786),

Gene: Getalong_54 Start: 36463, Stop: 35831, Start Num: 8

Candidate Starts for Getalong_54:

(Start: 8 @36463 has 4 MA's), (10, 36400), (15, 36343), (21, 36232), (23, 36190), (24, 36184), (27, 36151), (31, 36124), (33, 36073), (34, 36067), (39, 36040), (42, 35995), (49, 35908), (52, 35887), (54, 35881), (57, 35842),

Gene: GumGum_85 Start: 45863, Stop: 46471, Start Num: 9

Candidate Starts for GumGum_85:

(Start: 9 @45863 has 3 MA's), (10, 45926), (28, 46166), (32, 46217), (37, 46259), (46, 46352), (47, 46370), (52, 46421),

Gene: Holliday_49 Start: 33694, Stop: 33062, Start Num: 9

Candidate Starts for Holliday_49:

(Start: 9 @33694 has 3 MA's), (15, 33574), (21, 33463), (23, 33421), (24, 33415), (27, 33382), (31, 33355), (33, 33304), (34, 33298), (39, 33271), (42, 33226), (43, 33220), (49, 33139), (52, 33118), (54, 33112), (57, 33073),

Gene: Jinkies_7 Start: 5796, Stop: 6461, Start Num: 6

Candidate Starts for Jinkies_7:

(1, 5598), (2, 5655), (3, 5658), (4, 5700), (Start: 6 @5796 has 1 MA's), (11, 5910), (20, 6057), (30, 6165), (36, 6234), (37, 6240), (41, 6279), (43, 6300), (49, 6384),

Gene: Kenna_50 Start: 34206, Stop: 33574, Start Num: 8

Candidate Starts for Kenna_50:

(Start: 8 @34206 has 4 MA's), (10, 34143), (15, 34086), (21, 33975), (23, 33933), (24, 33927), (27, 33894), (31, 33867), (33, 33816), (34, 33810), (39, 33783), (42, 33738), (49, 33651), (52, 33630), (54, 33624), (57, 33585),

Gene: Lasker_82 Start: 46302, Stop: 46910, Start Num: 9

Candidate Starts for Lasker_82:

(Start: 9 @46302 has 3 MA's), (10, 46365), (28, 46605), (32, 46656), (37, 46698), (46, 46791), (47, 46809), (52, 46860),

Gene: Ligma_50 Start: 44095, Stop: 43628, Start Num: 19

Candidate Starts for Ligma_50:

(Start: 14 @44149 has 1 MA's), (Start: 16 @44137 has 2 MA's), (18, 44101), (Start: 19 @44095 has 2 MA's), (22, 44008), (25, 43990), (32, 43912), (38, 43861), (45, 43786),

Gene: Lutum_51 Start: 34206, Stop: 33574, Start Num: 8

Candidate Starts for Lutum_51:

(Start: 8 @34206 has 4 MA's), (10, 34143), (15, 34086), (21, 33975), (23, 33933), (24, 33927), (27, 33894), (31, 33867), (33, 33816), (34, 33810), (39, 33783), (42, 33738), (49, 33651), (52, 33630), (54, 33624), (57, 33585),

Gene: MakoManhole_50 Start: 45251, Stop: 44724, Start Num: 14

Candidate Starts for MakoManhole_50:

(Start: 14 @45251 has 1 MA's), (22, 45113), (25, 45095), (31, 45050), (40, 44948), (45, 44894), (46, 44885), (54, 44807),

Gene: Shatter_50 Start: 44137, Stop: 43628, Start Num: 16

Candidate Starts for Shatter_50:

(Start: 14 @44149 has 1 MA's), (Start: 16 @44137 has 2 MA's), (18, 44101), (Start: 19 @44095 has 2 MA's), (22, 44008), (25, 43990), (32, 43912), (38, 43861), (45, 43786),

Gene: Shenandoah_56 Start: 51483, Stop: 50830, Start Num: 17

Candidate Starts for Shenandoah_56:

(13, 51507), (Start: 17 @51483 has 1 MA's), (38, 51210), (50, 51066), (51, 51060), (53, 51051), (55, 51045), (56, 51006), (58, 50883), (59, 50859),