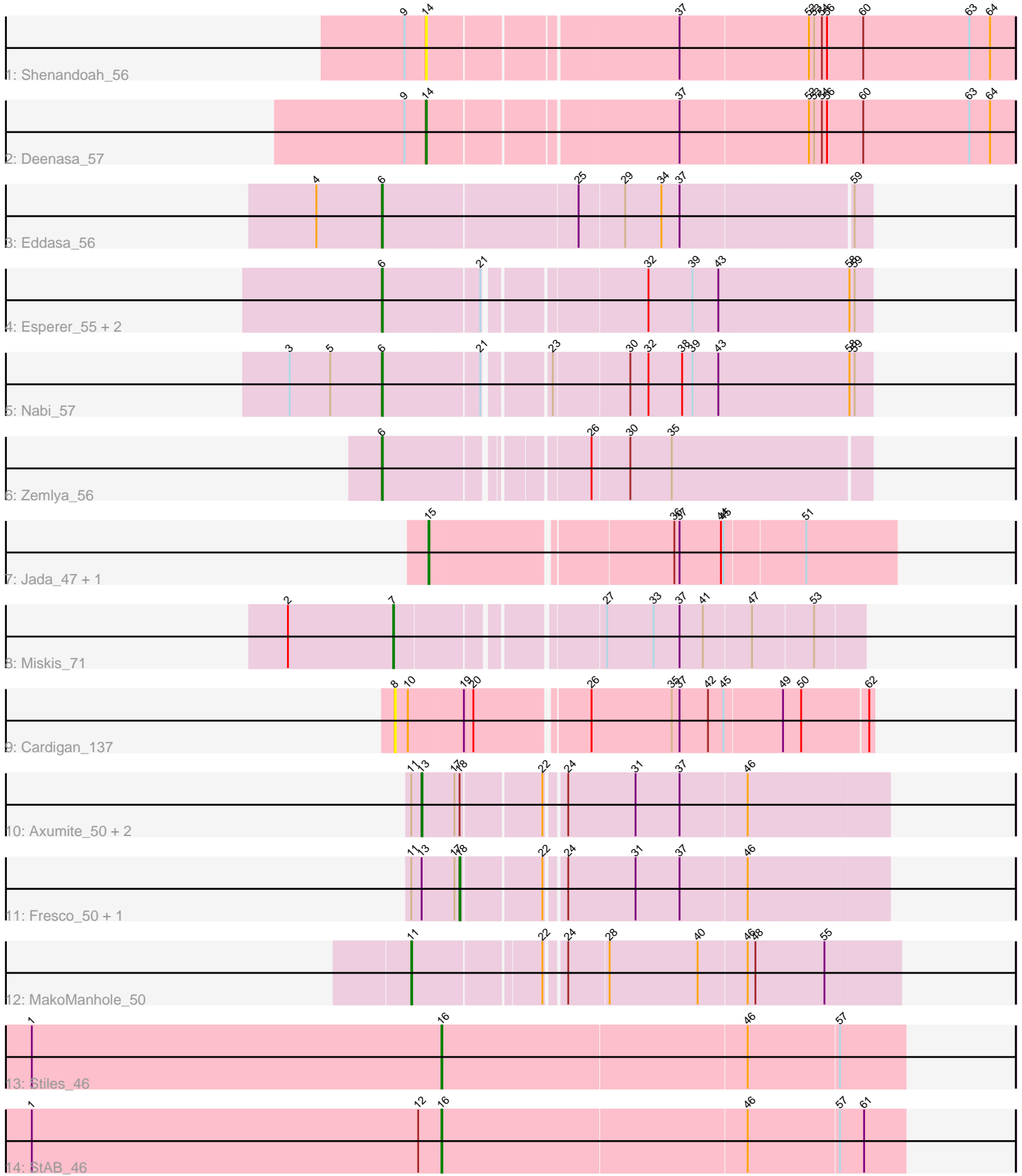


Pham 301781



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 301781 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301781 has 20 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Shenandoah_56
- Track 2 : Deenasa_57
- Track 3 : Eddasa_56
- Track 4 : Esperer_55, Hydra_56, Leviticus_55
- Track 5 : Nabi_57
- Track 6 : Zemlya_56
- Track 7 : Jada_47, Forrest_49
- Track 8 : Miskis_71
- Track 9 : Cardigan_137
- Track 10 : Axumite_50, CharlottesWeb_49, Shatter_50
- Track 11 : Fresco_50, Ligma_50
- Track 12 : MakoManhole_50
- Track 13 : Stiles_46
- Track 14 : StAB_46

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

The start number called the most often in the published annotations is 6, it was called in 6 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Eddasa_56, Esperer_55, Hydra_56, Leviticus_55, Nabi_57, Zemlya_56,

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

-

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

- Axumite_50, Cardigan_137, CharlottesWeb_49, Deenasa_57, Forrest_49, Fresco_50, Jada_47, Ligma_50, MakoManhole_50, Miskis_71, Shatter_50, Shenandoah_56, StAB_46, Stiles_46,

Summary by start number:

Start 6:

- Found in 6 of 20 (30.0%) of genes in pham
- Manual Annotations of this start: 6 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eddasa_56 (BD1), Esperer_55 (BD1), Hydra_56 (BD1), Leviticus_55 (BD1), Nabi_57 (BD1), Zemlya_56 (BD1),

Start 7:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Miskis_71 (CQ1),

Start 8:

- Found in 1 of 20 (5.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_137 (DD),

Start 11:

- Found in 6 of 20 (30.0%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 16.7% of time when present
- Phage (with cluster) where this start called: MakoManhole_50 (DR),

Start 13:

- Found in 5 of 20 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Axumite_50 (DR), CharlottesWeb_49 (DR), Shatter_50 (DR),

Start 14:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Deenasa_57 (B3), Shenandoah_56 (B3),

Start 15:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Forrest_49 (BK1), Jada_47 (BK1),

Start 16:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: StAB_46 (EP), Stiles_46 (EP),

Start 18:

- Found in 5 of 20 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 17
- 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: DD, BD1, BK1, B3, CQ1, DR, EP,

Info for manual annotations of cluster B3:

- Start number 14 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster BD1:

- Start number 6 was manually annotated 6 times for cluster BD1.

Info for manual annotations of cluster BK1:

- Start number 15 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster CQ1:

- Start number 7 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster DR:

- Start number 11 was manually annotated 1 time for cluster DR.
- Start number 13 was manually annotated 2 times for cluster DR.
- Start number 18 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster EP:

- Start number 16 was manually annotated 2 times for cluster EP.

Gene Information:

Gene: Axumite_50 Start: 44137, Stop: 43628, Start Num: 13

Candidate Starts for Axumite_50:

(Start: 11 @44149 has 1 MA's), (Start: 13 @44137 has 2 MA's), (17, 44101), (Start: 18 @44095 has 2 MA's), (22, 44008), (24, 43990), (31, 43912), (37, 43861), (46, 43786),

Gene: Cardigan_137 Start: 77101, Stop: 77631, Start Num: 8

Candidate Starts for Cardigan_137:

(8, 77101), (10, 77116), (19, 77179), (20, 77188), (26, 77311), (35, 77404), (37, 77413), (42, 77446), (45, 77464), (49, 77530), (50, 77551), (62, 77626),

Gene: CharlottesWeb_49 Start: 43503, Stop: 42994, Start Num: 13

Candidate Starts for CharlottesWeb_49:

(Start: 11 @43515 has 1 MA's), (Start: 13 @43503 has 2 MA's), (17, 43467), (Start: 18 @43461 has 2 MA's), (22, 43374), (24, 43356), (31, 43278), (37, 43227), (46, 43152),

Gene: Deenasa_57 Start: 52719, Stop: 52066, Start Num: 14

Candidate Starts for Deenasa_57:

(9, 52743), (Start: 14 @52719 has 1 MA's), (37, 52446), (52, 52302), (53, 52296), (54, 52287), (56, 52281), (60, 52242), (63, 52119), (64, 52095),

Gene: Eddasa_56 Start: 41265, Stop: 40723, Start Num: 6

Candidate Starts for Eddasa_56:

(4, 41334), (Start: 6 @41265 has 6 MA's), (25, 41046), (29, 40995), (34, 40953), (37, 40932), (59, 40743),

Gene: Esperer_55 Start: 40815, Stop: 40285, Start Num: 6

Candidate Starts for Esperer_55:

(Start: 6 @40815 has 6 MA's), (21, 40707), (32, 40539), (39, 40488), (43, 40458), (58, 40311), (59, 40305),

Gene: Forrest_49 Start: 41931, Stop: 42446, Start Num: 15

Candidate Starts for Forrest_49:

(Start: 15 @41931 has 2 MA's), (36, 42195), (37, 42201), (44, 42249), (45, 42252), (51, 42342),

Gene: Fresco_50 Start: 44095, Stop: 43628, Start Num: 18

Candidate Starts for Fresco_50:

(Start: 11 @44149 has 1 MA's), (Start: 13 @44137 has 2 MA's), (17, 44101), (Start: 18 @44095 has 2 MA's), (22, 44008), (24, 43990), (31, 43912), (37, 43861), (46, 43786),

Gene: Hydra_56 Start: 41651, Stop: 41121, Start Num: 6

Candidate Starts for Hydra_56:

(Start: 6 @41651 has 6 MA's), (21, 41543), (32, 41375), (39, 41324), (43, 41294), (58, 41147), (59, 41141),

Gene: Jada_47 Start: 41113, Stop: 41628, Start Num: 15

Candidate Starts for Jada_47:

(Start: 15 @41113 has 2 MA's), (36, 41377), (37, 41383), (44, 41431), (45, 41434), (51, 41524),

Gene: Leviticus_55 Start: 41002, Stop: 40472, Start Num: 6

Candidate Starts for Leviticus_55:

(Start: 6 @41002 has 6 MA's), (21, 40894), (32, 40726), (39, 40675), (43, 40645), (58, 40498), (59, 40492),

Gene: Ligma_50 Start: 44095, Stop: 43628, Start Num: 18

Candidate Starts for Ligma_50:

(Start: 11 @44149 has 1 MA's), (Start: 13 @44137 has 2 MA's), (17, 44101), (Start: 18 @44095 has 2 MA's), (22, 44008), (24, 43990), (31, 43912), (37, 43861), (46, 43786),

Gene: MakoManhole_50 Start: 45251, Stop: 44724, Start Num: 11

Candidate Starts for MakoManhole_50:

(Start: 11 @45251 has 1 MA's), (22, 45113), (24, 45095), (28, 45050), (40, 44948), (46, 44894), (48, 44885), (55, 44807),

Gene: Miskis_71 Start: 47774, Stop: 48271, Start Num: 7

Candidate Starts for Miskis_71:

(2, 47657), (Start: 7 @47774 has 1 MA's), (27, 47984), (33, 48038), (37, 48068), (41, 48095), (47, 48146), (53, 48215),

Gene: Nabi_57 Start: 42255, Stop: 41725, Start Num: 6

Candidate Starts for Nabi_57:

(3, 42360), (5, 42315), (Start: 6 @42255 has 6 MA's), (21, 42147), (23, 42084), (30, 42000), (32, 41979), (38, 41940), (39, 41928), (43, 41898), (58, 41751), (59, 41745),

Gene: Shatter_50 Start: 44137, Stop: 43628, Start Num: 13

Candidate Starts for Shatter_50:

(Start: 11 @44149 has 1 MA's), (Start: 13 @44137 has 2 MA's), (17, 44101), (Start: 18 @44095 has 2 MA's), (22, 44008), (24, 43990), (31, 43912), (37, 43861), (46, 43786),

Gene: Shenandoah_56 Start: 51483, Stop: 50830, Start Num: 14

Candidate Starts for Shenandoah_56:

(9, 51507), (Start: 14 @51483 has 1 MA's), (37, 51210), (52, 51066), (53, 51060), (54, 51051), (56, 51045), (60, 51006), (63, 50883), (64, 50859),

Gene: StAB_46 Start: 35820, Stop: 36344, Start Num: 16

Candidate Starts for StAB_46:

(1, 35346), (12, 35793), (Start: 16 @35820 has 2 MA's), (46, 36168), (57, 36270), (61, 36297),

Gene: Stiles_46 Start: 35275, Stop: 35799, Start Num: 16

Candidate Starts for Stiles_46:

(1, 34801), (Start: 16 @35275 has 2 MA's), (46, 35623), (57, 35725),

Gene: Zemlya_56 Start: 42043, Stop: 41525, Start Num: 6

Candidate Starts for Zemlya_56:

(Start: 6 @42043 has 6 MA's), (26, 41836), (30, 41794), (35, 41746),