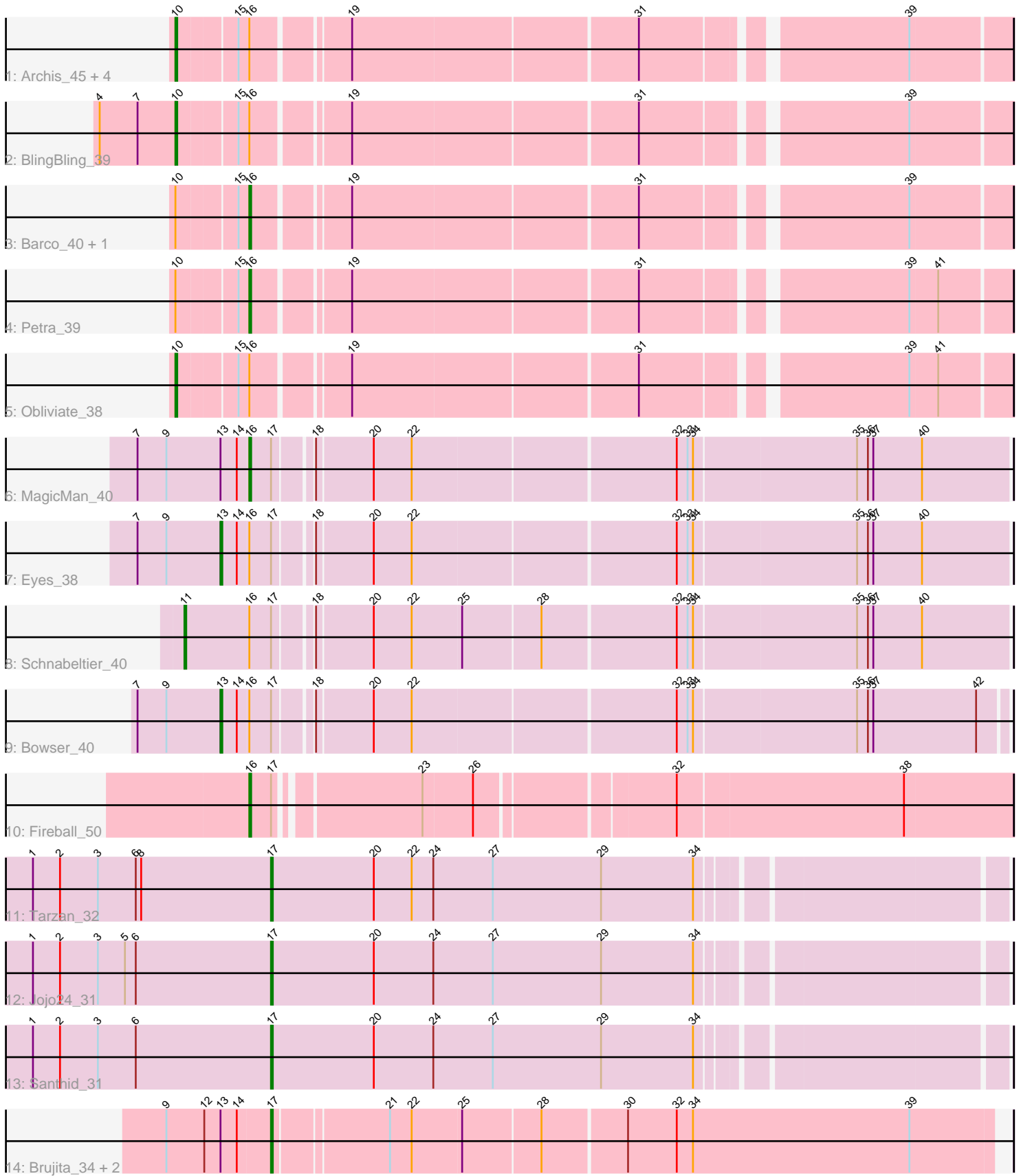


Pham 224892



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 224892 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224892 has 21 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Archis_45, MintFen_42, Delian_45, CaptainKirk2_42, Zarbodnamra_41
- Track 2 : BlingBling_39
- Track 3 : Barco_40, Melba_41
- Track 4 : Petra_39
- Track 5 : Obliviate_38
- Track 6 : MagicMan_40
- Track 7 : Eyes_38
- Track 8 : Schnabeltier_40
- Track 9 : Bowser_40
- Track 10 : Fireball_50
- Track 11 : Tarzan_32
- Track 12 : Jojo24_31
- Track 13 : Santhid_31
- Track 14 : Brujita_34, Island3_34, Babsiella_34

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

The start number called the most often in the published annotations is 10, it was called in 7 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archis_45, BlingBling_39, CaptainKirk2_42, Delian_45, MintFen_42, Obliviate_38, Zarbodnamra_41,

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

- Barco_40, Melba_41, Petra_39,

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

- Babsiella_34, Bowser_40, Brujita_34, Eyes_38, Fireball_50, Island3_34, Jojo24_31, MagicMan_40, Santhid_31, Schnabeltier_40, Tarzan_32,

Summary by start number:

Start 10:

- Found in 10 of 21 (47.6%) of genes in pham
- Manual Annotations of this start: 7 of 21
- Called 70.0% of time when present
- Phage (with cluster) where this start called: Archis_45 (CV), BlingBling_39 (CV), CaptainKirk2_42 (CV), Delian_45 (CV), MintFen_42 (CV), Obliviate_38 (CV), Zarbodnamra_41 (CV),

Start 11:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schnabeltier_40 (DB),

Start 13:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Bowser_40 (DB), Eyes_38 (DB),

Start 16:

- Found in 15 of 21 (71.4%) of genes in pham
- Manual Annotations of this start: 5 of 21
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Barco_40 (CV), Fireball_50 (DC1), MagicMan_40 (DB), Melba_41 (CV), Petra_39 (CV),

Start 17:

- Found in 11 of 21 (52.4%) of genes in pham
- Manual Annotations of this start: 6 of 21
- Called 54.5% of time when present
- Phage (with cluster) where this start called: Babsiella_34 (I1), Brujita_34 (I1), Island3_34 (I1), Jojo24_31 (DY), Santhid_31 (DY), Tarzan_32 (DY),

Summary by clusters:

There are 5 clusters represented in this pham: I1, DC1, DB, CV, DY,

Info for manual annotations of cluster CV:

- Start number 10 was manually annotated 7 times for cluster CV.
- Start number 16 was manually annotated 3 times for cluster CV.

Info for manual annotations of cluster DB:

- Start number 11 was manually annotated 1 time for cluster DB.
- Start number 13 was manually annotated 2 times for cluster DB.
- Start number 16 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 16 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DY:

- Start number 17 was manually annotated 3 times for cluster DY.

Info for manual annotations of cluster I1:

- Start number 17 was manually annotated 3 times for cluster I1.

Gene Information:

Gene: Archis_45 Start: 33058, Stop: 32636, Start Num: 10

Candidate Starts for Archis_45:

(Start: 10 @33058 has 7 MA's), (15, 33028), (Start: 16 @33022 has 5 MA's), (19, 32974), (31, 32821), (39, 32689),

Gene: Babsiella_34 Start: 28570, Stop: 28175, Start Num: 17

Candidate Starts for Babsiella_34:

(9, 28627), (12, 28606), (Start: 13 @28597 has 2 MA's), (14, 28588), (Start: 17 @28570 has 6 MA's), (21, 28510), (22, 28498), (25, 28471), (28, 28429), (30, 28384), (32, 28357), (34, 28348), (39, 28228),

Gene: Barco_40 Start: 32072, Stop: 31686, Start Num: 16

Candidate Starts for Barco_40:

(Start: 10 @32108 has 7 MA's), (15, 32078), (Start: 16 @32072 has 5 MA's), (19, 32024), (31, 31871), (39, 31739),

Gene: BlingBling_39 Start: 33071, Stop: 32649, Start Num: 10

Candidate Starts for BlingBling_39:

(4, 33113), (7, 33092), (Start: 10 @33071 has 7 MA's), (15, 33041), (Start: 16 @33035 has 5 MA's), (19, 32987), (31, 32834), (39, 32702),

Gene: Bowser_40 Start: 32553, Stop: 32140, Start Num: 13

Candidate Starts for Bowser_40:

(7, 32598), (9, 32583), (Start: 13 @32553 has 2 MA's), (14, 32544), (Start: 16 @32538 has 5 MA's), (Start: 17 @32526 has 6 MA's), (18, 32508), (20, 32478), (22, 32457), (32, 32316), (33, 32310), (34, 32307), (35, 32220), (36, 32214), (37, 32211), (42, 32154),

Gene: Brujita_34 Start: 29468, Stop: 29082, Start Num: 17

Candidate Starts for Brujita_34:

(9, 29525), (12, 29504), (Start: 13 @29495 has 2 MA's), (14, 29486), (Start: 17 @29468 has 6 MA's), (21, 29408), (22, 29396), (25, 29369), (28, 29327), (30, 29282), (32, 29255), (34, 29246), (39, 29126),

Gene: CaptainKirk2_42 Start: 32356, Stop: 31934, Start Num: 10

Candidate Starts for CaptainKirk2_42:

(Start: 10 @32356 has 7 MA's), (15, 32326), (Start: 16 @32320 has 5 MA's), (19, 32272), (31, 32119), (39, 31987),

Gene: Delian_45 Start: 32354, Stop: 31932, Start Num: 10

Candidate Starts for Delian_45:

(Start: 10 @32354 has 7 MA's), (15, 32324), (Start: 16 @32318 has 5 MA's), (19, 32270), (31, 32117), (39, 31985),

Gene: Eyes_38 Start: 32329, Stop: 31913, Start Num: 13

Candidate Starts for Eyes_38:

(7, 32374), (9, 32359), (Start: 13 @32329 has 2 MA's), (14, 32320), (Start: 16 @32314 has 5 MA's), (Start: 17 @32302 has 6 MA's), (18, 32284), (20, 32254), (22, 32233), (32, 32092), (33, 32086), (34, 32083), (35, 31996), (36, 31990), (37, 31987), (40, 31960),

Gene: Fireball_50 Start: 40315, Stop: 39920, Start Num: 16

Candidate Starts for Fireball_50:

(Start: 16 @40315 has 5 MA's), (Start: 17 @40303 has 6 MA's), (23, 40231), (26, 40204), (32, 40102), (38, 39979),

Gene: Island3_34 Start: 29468, Stop: 29082, Start Num: 17

Candidate Starts for Island3_34:

(9, 29525), (12, 29504), (Start: 13 @29495 has 2 MA's), (14, 29486), (Start: 17 @29468 has 6 MA's), (21, 29408), (22, 29396), (25, 29369), (28, 29327), (30, 29282), (32, 29255), (34, 29246), (39, 29126),

Gene: Jojo24_31 Start: 26167, Stop: 25778, Start Num: 17

Candidate Starts for Jojo24_31:

(1, 26299), (2, 26284), (3, 26263), (5, 26248), (6, 26242), (Start: 17 @26167 has 6 MA's), (20, 26110), (24, 26077), (27, 26044), (29, 25984), (34, 25933),

Gene: MagicMan_40 Start: 32861, Stop: 32460, Start Num: 16

Candidate Starts for MagicMan_40:

(7, 32921), (9, 32906), (Start: 13 @32876 has 2 MA's), (14, 32867), (Start: 16 @32861 has 5 MA's), (Start: 17 @32849 has 6 MA's), (18, 32831), (20, 32801), (22, 32780), (32, 32639), (33, 32633), (34, 32630), (35, 32543), (36, 32537), (37, 32534), (40, 32507),

Gene: Melba_41 Start: 32860, Stop: 32474, Start Num: 16

Candidate Starts for Melba_41:

(Start: 10 @32896 has 7 MA's), (15, 32866), (Start: 16 @32860 has 5 MA's), (19, 32812), (31, 32659), (39, 32527),

Gene: MintFen_42 Start: 32970, Stop: 32548, Start Num: 10

Candidate Starts for MintFen_42:

(Start: 10 @32970 has 7 MA's), (15, 32940), (Start: 16 @32934 has 5 MA's), (19, 32886), (31, 32733), (39, 32601),

Gene: Obliviate_38 Start: 31257, Stop: 30835, Start Num: 10

Candidate Starts for Obliviate_38:

(Start: 10 @31257 has 7 MA's), (15, 31227), (Start: 16 @31221 has 5 MA's), (19, 31173), (31, 31020), (39, 30888), (41, 30873),

Gene: Petra_39 Start: 31580, Stop: 31194, Start Num: 16

Candidate Starts for Petra_39:

(Start: 10 @31616 has 7 MA's), (15, 31586), (Start: 16 @31580 has 5 MA's), (19, 31532), (31, 31379), (39, 31247), (41, 31232),

Gene: Santhid_31 Start: 24886, Stop: 24497, Start Num: 17

Candidate Starts for Santhid_31:

(1, 25018), (2, 25003), (3, 24982), (6, 24961), (Start: 17 @24886 has 6 MA's), (20, 24829), (24, 24796), (27, 24763), (29, 24703), (34, 24652),

Gene: Schnabeltier_40 Start: 32529, Stop: 32092, Start Num: 11

Candidate Starts for Schnabeltier_40:

(Start: 11 @32529 has 1 MA's), (Start: 16 @32493 has 5 MA's), (Start: 17 @32481 has 6 MA's), (18, 32463), (20, 32433), (22, 32412), (25, 32385), (28, 32343), (32, 32271), (33, 32265), (34, 32262), (35, 32175), (36, 32169), (37, 32166), (40, 32139),

Gene: Tarzan_32 Start: 26056, Stop: 25667, Start Num: 17

Candidate Starts for Tarzan_32:

(1, 26188), (2, 26173), (3, 26152), (6, 26131), (8, 26128), (Start: 17 @26056 has 6 MA's), (20, 25999), (22, 25978), (24, 25966), (27, 25933), (29, 25873), (34, 25822),

Gene: Zarbodnamra_41 Start: 32378, Stop: 31956, Start Num: 10

Candidate Starts for Zarbodnamra_41:

(Start: 10 @32378 has 7 MA's), (15, 32348), (Start: 16 @32342 has 5 MA's), (19, 32294), (31, 32141), (39, 32009),