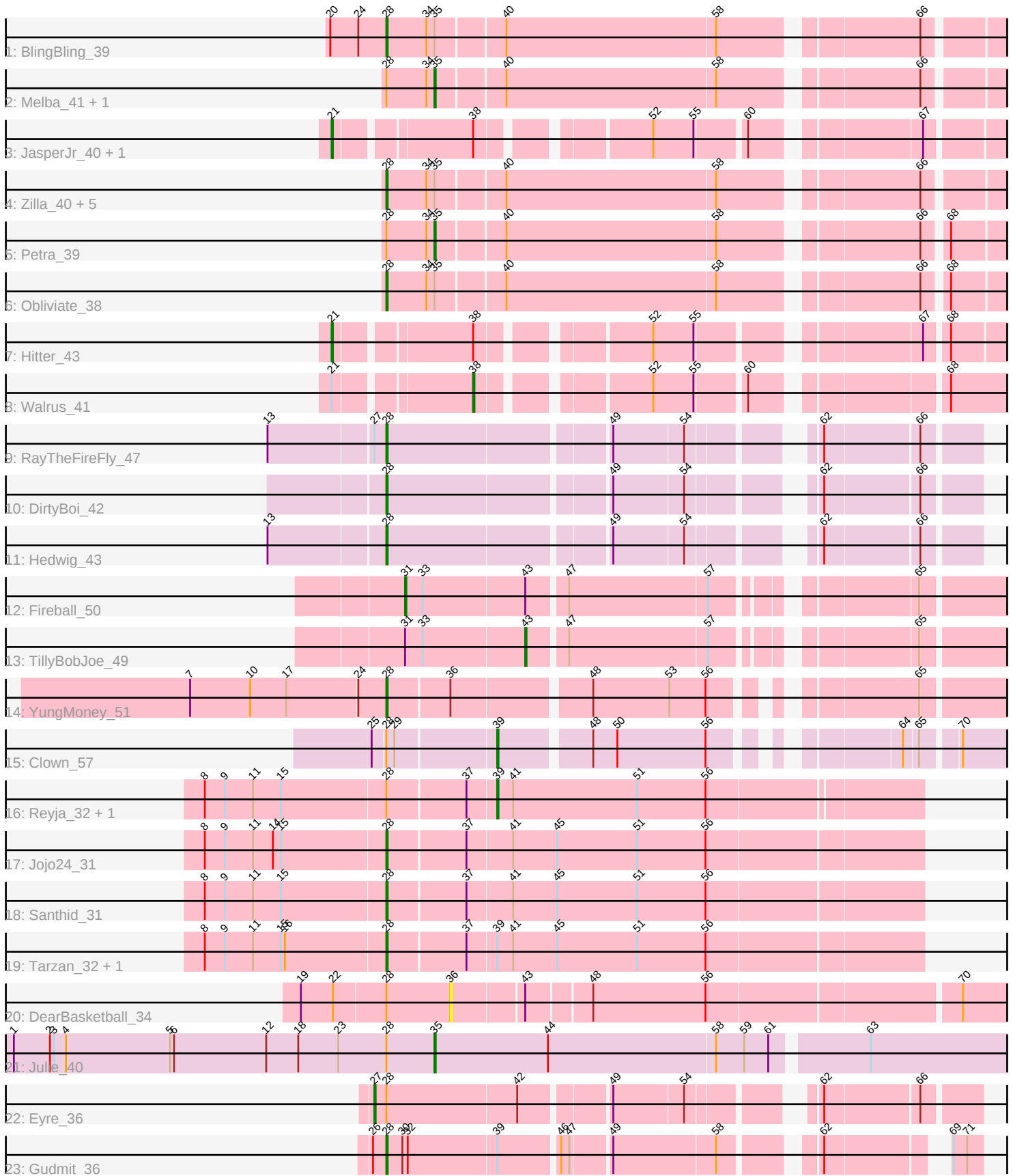


Pham 331092



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 331092 Report

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

Pham number 331092 has 32 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BlingBling_39
- Track 2 : Melba_41, Barco_40
- Track 3 : JasperJr_40, Guacamole_40
- Track 4 : Zilla_40, CaptainKirk2_42, Zarbodnamra_41, Archis_45, MintFen_42, Delian_45
- Track 5 : Petra_39
- Track 6 : Obliviate_38
- Track 7 : Hitter_43
- Track 8 : Walrus_41
- Track 9 : RayTheFireFly_47
- Track 10 : DirtyBoi_42
- Track 11 : Hedwig_43
- Track 12 : Fireball_50
- Track 13 : TillyBobJoe_49
- Track 14 : YungMoney_51
- Track 15 : Clown_57
- Track 16 : Reyja_32, DinoNuggets_32
- Track 17 : Jojo24_31
- Track 18 : Santhid_31
- Track 19 : Tarzan_32, DonkeyMan_32
- Track 20 : DearBasketball_34
- Track 21 : Julie_40
- Track 22 : Eyre_36
- Track 23 : Gudmit_36

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

The start number called the most often in the published annotations is 28, it was called in 17 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archis_45, BlingBling_39, CaptainKirk2_42, Delian_45, DirtyBoi_42, DonkeyMan_32, Gudmit_36, Hedwig_43, Jojo24_31, MintFen_42, Obliviate_38, RayTheFireFly_47, Santhid_31, Tarzan_32, YungMoney_51, Zarbodnamra_41,

Zilla_40,

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

- Barco_40, Clown_57, DearBasketball_34, DinoNuggs_32, Eyre_36, Julie_40, Melba_41, Petra_39, Reyja_32,

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

- Fireball_50, Guacamole_40, Hitter_43, JasperJr_40, TillyBobJoe_49, Walrus_41,

Summary by start number:

Start 21:

- Found in 4 of 32 (12.5%) of genes in pham
- Manual Annotations of this start: 3 of 30
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Guacamole_40 (CV), Hitter_43 (CV), JasperJr_40 (CV),

Start 27:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Eyre_36 (singleton),

Start 28:

- Found in 26 of 32 (81.2%) of genes in pham
- Manual Annotations of this start: 17 of 30
- Called 65.4% of time when present
- Phage (with cluster) where this start called: Archis_45 (CV), BlingBling_39 (CV), CaptainKirk2_42 (CV), Delian_45 (CV), DirtyBoi_42 (DB), DonkeyMan_32 (DY), Gudmit_36 (singleton), Hedwig_43 (DB), Jojo24_31 (DY), MintFen_42 (CV), Obliviate_38 (CV), RayTheFireFly_47 (DB), Santhid_31 (DY), Tarzan_32 (DY), YungMoney_51 (DC1), Zarbodnamra_41 (CV), Zilla_40 (CV),

Start 31:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Fireball_50 (DC1),

Start 35:

- Found in 12 of 32 (37.5%) of genes in pham
- Manual Annotations of this start: 4 of 30
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Barco_40 (CV), Julie_40 (FF), Melba_41 (CV), Petra_39 (CV),

Start 36:

- Found in 2 of 32 (6.2%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: DearBasketball_34 (DY),

Start 38:

- Found in 4 of 32 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Walrus_41 (CV),

Start 39:

- Found in 6 of 32 (18.8%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Clown_57 (DC2), DinoNuggs_32 (DY), Reyja_32 (DY),

Start 43:

- Found in 3 of 32 (9.4%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 33.3% of time when present
- Phage (with cluster) where this start called: TillyBobJoe_49 (DC1),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, DB, FF, DY, DC2, CV, DC1,

Info for manual annotations of cluster CV:

- Start number 21 was manually annotated 3 times for cluster CV.
- Start number 28 was manually annotated 8 times for cluster CV.
- Start number 35 was manually annotated 3 times for cluster CV.
- Start number 38 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DB:

- Start number 28 was manually annotated 3 times for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 28 was manually annotated 1 time for cluster DC1.
- Start number 31 was manually annotated 1 time for cluster DC1.
- Start number 43 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 39 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DY:

- Start number 28 was manually annotated 4 times for cluster DY.
- Start number 39 was manually annotated 1 time for cluster DY.

Info for manual annotations of cluster FF:

- Start number 35 was manually annotated 1 time for cluster FF.

Gene Information:

Gene: Archis_45 Start: 33058, Stop: 32636, Start Num: 28

Candidate Starts for Archis_45:

(Start: 28 @33058 has 17 MA's), (34, 33028), (Start: 35 @33022 has 4 MA's), (40, 32974), (58, 32821), (66, 32689),

Gene: Barco_40 Start: 32072, Stop: 31686, Start Num: 35

Candidate Starts for Barco_40:

(Start: 28 @32108 has 17 MA's), (34, 32078), (Start: 35 @32072 has 4 MA's), (40, 32024), (58, 31871), (66, 31739),

Gene: BlingBling_39 Start: 33071, Stop: 32649, Start Num: 28

Candidate Starts for BlingBling_39:

(20, 33113), (24, 33092), (Start: 28 @33071 has 17 MA's), (34, 33041), (Start: 35 @33035 has 4 MA's), (40, 32987), (58, 32834), (66, 32702),

Gene: CaptainKirk2_42 Start: 32356, Stop: 31934, Start Num: 28

Candidate Starts for CaptainKirk2_42:

(Start: 28 @32356 has 17 MA's), (34, 32326), (Start: 35 @32320 has 4 MA's), (40, 32272), (58, 32119), (66, 31987),

Gene: Clown_57 Start: 43040, Stop: 42723, Start Num: 39

Candidate Starts for Clown_57:

(25, 43127), (Start: 28 @43118 has 17 MA's), (29, 43112), (Start: 39 @43040 has 2 MA's), (48, 42977), (50, 42959), (56, 42893), (64, 42788), (65, 42779), (70, 42755),

Gene: DearBasketball_34 Start: 26807, Stop: 26418, Start Num: 36

Candidate Starts for DearBasketball_34:

(19, 26915), (22, 26891), (Start: 28 @26855 has 17 MA's), (36, 26807), (Start: 43 @26756 has 1 MA's), (48, 26711), (56, 26627), (70, 26450),

Gene: Delian_45 Start: 32354, Stop: 31932, Start Num: 28

Candidate Starts for Delian_45:

(Start: 28 @32354 has 17 MA's), (34, 32324), (Start: 35 @32318 has 4 MA's), (40, 32270), (58, 32117), (66, 31985),

Gene: DinoNuggs_32 Start: 26445, Stop: 26137, Start Num: 39

Candidate Starts for DinoNuggs_32:

(8, 26655), (9, 26640), (11, 26619), (15, 26598), (Start: 28 @26523 has 17 MA's), (37, 26466), (Start: 39 @26445 has 2 MA's), (41, 26433), (51, 26340), (56, 26289),

Gene: DirtyBoi_42 Start: 31803, Stop: 31423, Start Num: 28

Candidate Starts for DirtyBoi_42:

(Start: 28 @31803 has 17 MA's), (49, 31650), (54, 31599), (62, 31527), (66, 31461),

Gene: DonkeyMan_32 Start: 27574, Stop: 27185, Start Num: 28

Candidate Starts for DonkeyMan_32:

(8, 27706), (9, 27691), (11, 27670), (15, 27649), (16, 27646), (Start: 28 @27574 has 17 MA's), (37, 27517), (Start: 39 @27496 has 2 MA's), (41, 27484), (45, 27451), (51, 27391), (56, 27340),

Gene: Eyre_36 Start: 27990, Stop: 27601, Start Num: 27

Candidate Starts for Eyre_36:

(Start: 27 @27990 has 1 MA's), (Start: 28 @27981 has 17 MA's), (42, 27888), (49, 27828), (54, 27777), (62, 27705), (66, 27639),

Gene: Fireball_50 Start: 40315, Stop: 39920, Start Num: 31

Candidate Starts for Fireball_50:

(Start: 31 @40315 has 1 MA's), (33, 40303), (Start: 43 @40231 has 1 MA's), (47, 40204), (57, 40102), (65, 39979),

Gene: Guacamole_40 Start: 32920, Stop: 32501, Start Num: 21

Candidate Starts for Guacamole_40:

(Start: 21 @32920 has 3 MA's), (Start: 38 @32830 has 1 MA's), (52, 32725), (55, 32695), (60, 32662), (67, 32554),

Gene: Gudmit_36 Start: 27005, Stop: 26628, Start Num: 28

Candidate Starts for Gudmit_36:

(26, 27014), (Start: 28 @27005 has 17 MA's), (30, 26993), (32, 26990), (Start: 39 @26927 has 2 MA's), (46, 26885), (47, 26879), (49, 26852), (58, 26777), (62, 26720), (69, 26648), (71, 26639),

Gene: Hedwig_43 Start: 32226, Stop: 31846, Start Num: 28

Candidate Starts for Hedwig_43:

(13, 32310), (Start: 28 @32226 has 17 MA's), (49, 32073), (54, 32022), (62, 31950), (66, 31884),

Gene: Hitter_43 Start: 32564, Stop: 32145, Start Num: 21

Candidate Starts for Hitter_43:

(Start: 21 @32564 has 3 MA's), (Start: 38 @32474 has 1 MA's), (52, 32369), (55, 32339), (67, 32198), (68, 32183),

Gene: JasperJr_40 Start: 32920, Stop: 32501, Start Num: 21

Candidate Starts for JasperJr_40:

(Start: 21 @32920 has 3 MA's), (Start: 38 @32830 has 1 MA's), (52, 32725), (55, 32695), (60, 32662), (67, 32554),

Gene: Jojo24_31 Start: 26167, Stop: 25778, Start Num: 28

Candidate Starts for Jojo24_31:

(8, 26299), (9, 26284), (11, 26263), (14, 26248), (15, 26242), (Start: 28 @26167 has 17 MA's), (37, 26110), (41, 26077), (45, 26044), (51, 25984), (56, 25933),

Gene: Julie_40 Start: 30481, Stop: 30059, Start Num: 35

Candidate Starts for Julie_40:

(1, 30796), (2, 30769), (3, 30766), (4, 30757), (5, 30679), (6, 30676), (12, 30607), (18, 30583), (23, 30553), (Start: 28 @30517 has 17 MA's), (Start: 35 @30481 has 4 MA's), (44, 30397), (58, 30274), (59, 30253), (61, 30235), (63, 30169),

Gene: Melba_41 Start: 32860, Stop: 32474, Start Num: 35

Candidate Starts for Melba_41:

(Start: 28 @32896 has 17 MA's), (34, 32866), (Start: 35 @32860 has 4 MA's), (40, 32812), (58, 32659), (66, 32527),

Gene: MintFen_42 Start: 32970, Stop: 32548, Start Num: 28

Candidate Starts for MintFen_42:

(Start: 28 @32970 has 17 MA's), (34, 32940), (Start: 35 @32934 has 4 MA's), (40, 32886), (58, 32733), (66, 32601),

Gene: Obliviate_38 Start: 31257, Stop: 30835, Start Num: 28

Candidate Starts for Obliviate_38:

(Start: 28 @31257 has 17 MA's), (34, 31227), (Start: 35 @31221 has 4 MA's), (40, 31173), (58, 31020), (66, 30888), (68, 30873),

Gene: Petra_39 Start: 31580, Stop: 31194, Start Num: 35

Candidate Starts for Petra_39:

(Start: 28 @31616 has 17 MA's), (34, 31586), (Start: 35 @31580 has 4 MA's), (40, 31532), (58, 31379), (66, 31247), (68, 31232),

Gene: RayTheFireFly_47 Start: 33400, Stop: 33020, Start Num: 28

Candidate Starts for RayTheFireFly_47:

(13, 33484), (Start: 27 @33409 has 1 MA's), (Start: 28 @33400 has 17 MA's), (49, 33247), (54, 33196), (62, 33124), (66, 33058),

Gene: Reyja_32 Start: 26445, Stop: 26137, Start Num: 39

Candidate Starts for Reyja_32:

(8, 26655), (9, 26640), (11, 26619), (15, 26598), (Start: 28 @26523 has 17 MA's), (37, 26466), (Start: 39 @26445 has 2 MA's), (41, 26433), (51, 26340), (56, 26289),

Gene: Santhid_31 Start: 24886, Stop: 24497, Start Num: 28

Candidate Starts for Santhid_31:

(8, 25018), (9, 25003), (11, 24982), (15, 24961), (Start: 28 @24886 has 17 MA's), (37, 24829), (41, 24796), (45, 24763), (51, 24703), (56, 24652),

Gene: Tarzan_32 Start: 26056, Stop: 25667, Start Num: 28

Candidate Starts for Tarzan_32:

(8, 26188), (9, 26173), (11, 26152), (15, 26131), (16, 26128), (Start: 28 @26056 has 17 MA's), (37, 25999), (Start: 39 @25978 has 2 MA's), (41, 25966), (45, 25933), (51, 25873), (56, 25822),

Gene: TillyBobJoe_49 Start: 39897, Stop: 39586, Start Num: 43

Candidate Starts for TillyBobJoe_49:

(Start: 31 @39981 has 1 MA's), (33, 39969), (Start: 43 @39897 has 1 MA's), (47, 39870), (57, 39768), (65, 39645),

Gene: Walrus_41 Start: 32609, Stop: 32277, Start Num: 38

Candidate Starts for Walrus_41:

(Start: 21 @32699 has 3 MA's), (Start: 38 @32609 has 1 MA's), (52, 32504), (55, 32474), (60, 32441), (68, 32318),

Gene: YungMoney_51 Start: 42233, Stop: 41832, Start Num: 28

Candidate Starts for YungMoney_51:

(7, 42377), (10, 42332), (17, 42305), (24, 42254), (Start: 28 @42233 has 17 MA's), (36, 42188), (48, 42092), (53, 42035), (56, 42008), (65, 41891),

Gene: Zarbodnamra_41 Start: 32378, Stop: 31956, Start Num: 28

Candidate Starts for Zarbodnamra_41:

(Start: 28 @32378 has 17 MA's), (34, 32348), (Start: 35 @32342 has 4 MA's), (40, 32294), (58, 32141), (66, 32009),

Gene: Zilla_40 Start: 32125, Stop: 31703, Start Num: 28

Candidate Starts for Zilla_40:

(Start: 28 @32125 has 17 MA's), (34, 32095), (Start: 35 @32089 has 4 MA's), (40, 32041), (58, 31888), (66, 31756),