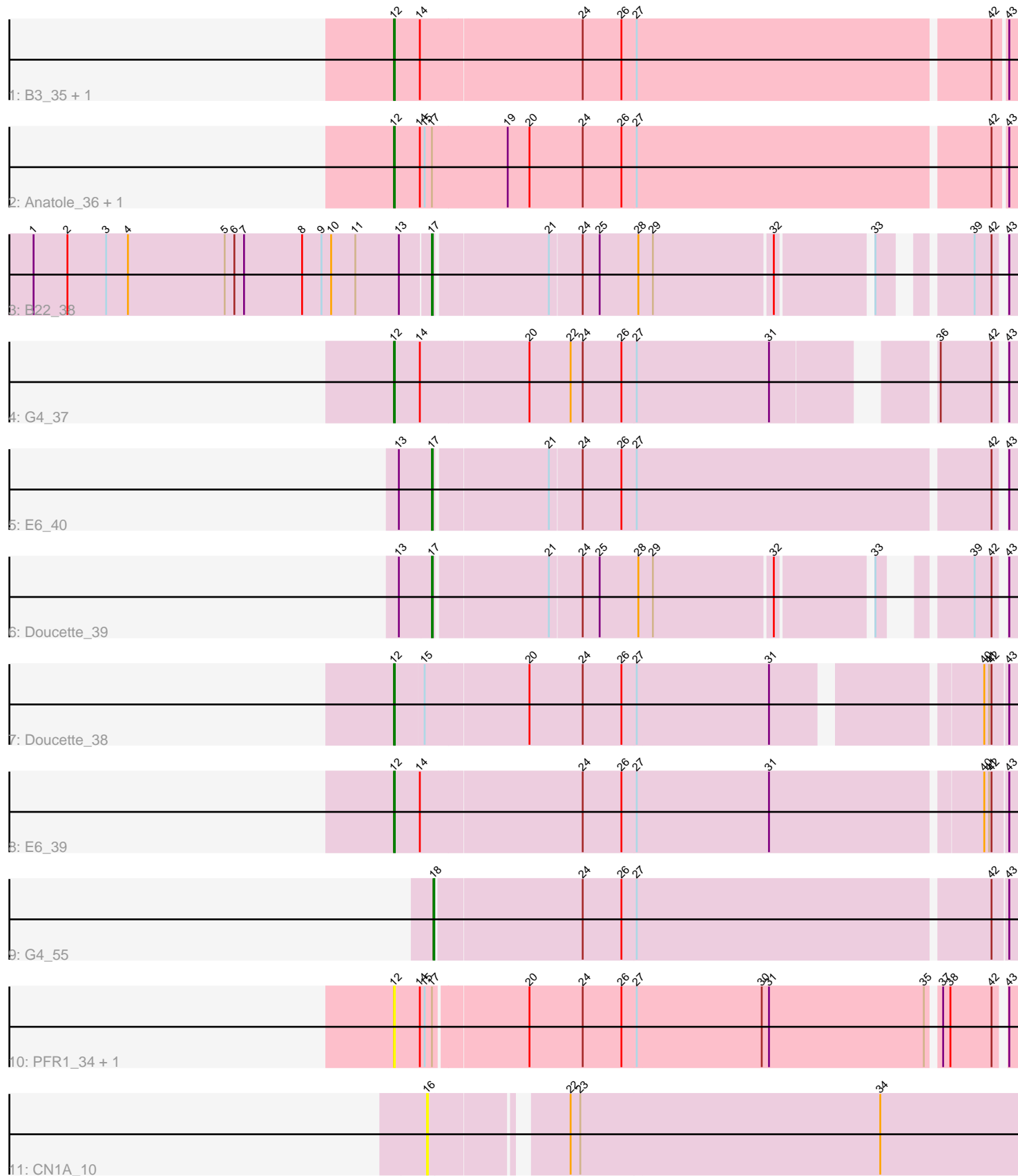


Pham 4682



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 4682 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4682 has 14 members, 3 are drafts.

Phages represented in each track:

- Track 1 : B3_35, B22_37
- Track 2 : Anatole_36, E1_36
- Track 3 : B22_38
- Track 4 : G4_37
- Track 5 : E6_40
- Track 6 : Doucette_39
- Track 7 : Doucette_38
- Track 8 : E6_39
- Track 9 : G4_55
- Track 10 : PFR1_34, PFR2_36
- Track 11 : CN1A_10

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

The start number called the most often in the published annotations is 12, it was called in 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anatole_36, B22_37, B3_35, Doucette_38, E1_36, E6_39, G4_37, PFR1_34, PFR2_36,

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

-

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

- B22_38, CN1A_10, Doucette_39, E6_40, G4_55,

Summary by start number:

Start 12:

- Found in 9 of 14 (64.3%) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Anatole_36 (BV), B22_37 (BW), B3_35 (BV), Doucette_38 (BW), E1_36 (BV), E6_39 (BW), G4_37 (BW), PFR1_34 (BX), PFR2_36 (BX),

Start 16:

- Found in 1 of 14 (7.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CN1A_10 (singleton),

Start 17:

- Found in 7 of 14 (50.0%) of genes in pham
- Manual Annotations of this start: 3 of 11
- Called 42.9% of time when present
- Phage (with cluster) where this start called: B22_38 (BW), Doucette_39 (BW), E6_40 (BW),

Start 18:

- Found in 1 of 14 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: G4_55 (BW),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, BW, BX, BV,

Info for manual annotations of cluster BV:

- Start number 12 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster BW:

- Start number 12 was manually annotated 4 times for cluster BW.
- Start number 17 was manually annotated 3 times for cluster BW.
- Start number 18 was manually annotated 1 time for cluster BW.

Gene Information:

Gene: Anatole_36 Start: 25887, Stop: 26636, Start Num: 12

Candidate Starts for Anatole_36:

(Start: 12 @25887 has 7 MA's), (14, 25917), (15, 25923), (Start: 17 @25932 has 3 MA's), (19, 26025), (20, 26052), (24, 26118), (26, 26166), (27, 26184), (42, 26610), (43, 26625),

Gene: B22_38 Start: 25760, Stop: 26401, Start Num: 17

Candidate Starts for B22_38:

(1, 25271), (2, 25313), (3, 25361), (4, 25388), (5, 25508), (6, 25520), (7, 25532), (8, 25604), (9, 25628), (10, 25640), (11, 25670), (13, 25724), (Start: 17 @25760 has 3 MA's), (21, 25895), (24, 25934), (25, 25955), (28, 26003), (29, 26021), (32, 26165), (33, 26273), (39, 26360), (42, 26381), (43, 26390),

Gene: B22_37 Start: 25017, Stop: 25763, Start Num: 12

Candidate Starts for B22_37:

(Start: 12 @25017 has 7 MA's), (14, 25047), (24, 25245), (26, 25293), (27, 25311), (42, 25737), (43, 25752),

Gene: B3_35 Start: 25147, Stop: 25893, Start Num: 12

Candidate Starts for B3_35:

(Start: 12 @25147 has 7 MA's), (14, 25177), (24, 25375), (26, 25423), (27, 25441), (42, 25867), (43, 25882),

Gene: CN1A_10 Start: 4938, Stop: 5642, Start Num: 16

Candidate Starts for CN1A_10:

(16, 4938), (22, 5085), (23, 5097), (34, 5466),

Gene: Doucette_39 Start: 27150, Stop: 27779, Start Num: 17

Candidate Starts for Doucette_39:

(13, 27111), (Start: 17 @27150 has 3 MA's), (21, 27285), (24, 27324), (25, 27345), (28, 27393), (29, 27411), (32, 27555), (33, 27663), (39, 27738), (42, 27759), (43, 27768),

Gene: Doucette_38 Start: 26431, Stop: 27153, Start Num: 12

Candidate Starts for Doucette_38:

(Start: 12 @26431 has 7 MA's), (15, 26467), (20, 26593), (24, 26659), (26, 26707), (27, 26725), (31, 26887), (40, 27115), (41, 27121), (42, 27124), (43, 27142),

Gene: E1_36 Start: 25887, Stop: 26636, Start Num: 12

Candidate Starts for E1_36:

(Start: 12 @25887 has 7 MA's), (14, 25917), (15, 25923), (Start: 17 @25932 has 3 MA's), (19, 26025), (20, 26052), (24, 26118), (26, 26166), (27, 26184), (42, 26610), (43, 26625),

Gene: E6_40 Start: 28531, Stop: 29217, Start Num: 17

Candidate Starts for E6_40:

(13, 28492), (Start: 17 @28531 has 3 MA's), (21, 28666), (24, 28705), (26, 28753), (27, 28771), (42, 29197), (43, 29206),

Gene: E6_39 Start: 27788, Stop: 28534, Start Num: 12

Candidate Starts for E6_39:

(Start: 12 @27788 has 7 MA's), (14, 27818), (24, 28016), (26, 28064), (27, 28082), (31, 28244), (40, 28496), (41, 28502), (42, 28505), (43, 28523),

Gene: G4_37 Start: 26050, Stop: 26751, Start Num: 12

Candidate Starts for G4_37:

(Start: 12 @26050 has 7 MA's), (14, 26080), (20, 26212), (22, 26263), (24, 26278), (26, 26326), (27, 26344), (31, 26506), (36, 26668), (42, 26731), (43, 26740),

Gene: G4_55 Start: 32346, Stop: 33044, Start Num: 18

Candidate Starts for G4_55:

(Start: 18 @32346 has 1 MA's), (24, 32523), (26, 32571), (27, 32589), (42, 33015), (43, 33033),

Gene: PFR1_34 Start: 25864, Stop: 26598, Start Num: 12

Candidate Starts for PFR1_34:

(Start: 12 @25864 has 7 MA's), (14, 25894), (15, 25900), (Start: 17 @25909 has 3 MA's), (20, 26020), (24, 26086), (26, 26134), (27, 26152), (30, 26305), (31, 26314), (35, 26506), (37, 26518), (38, 26527), (42, 26578), (43, 26587),

Gene: PFR2_36 Start: 27433, Stop: 28167, Start Num: 12

Candidate Starts for PFR2_36:

(Start: 12 @27433 has 7 MA's), (14, 27463), (15, 27469), (Start: 17 @27478 has 3 MA's), (20, 27589), (24, 27655), (26, 27703), (27, 27721), (30, 27874), (31, 27883), (35, 28075), (37, 28087), (38, 28096), (42, 28147), (43, 28156),