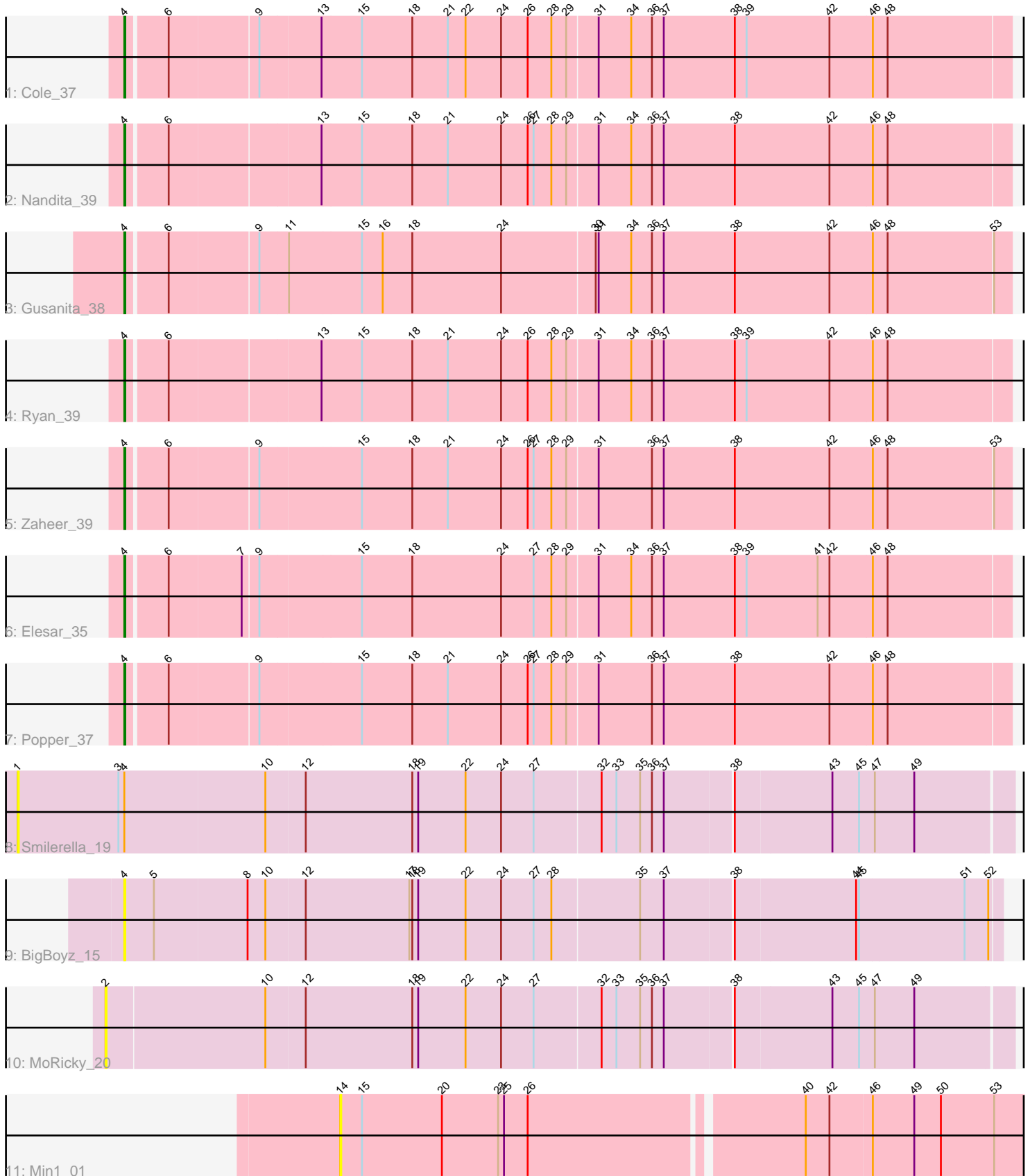


Pham 158351



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 158351 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158351 has 11 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Cole_37
- Track 2 : Nandita_39
- Track 3 : Gusanita_38
- Track 4 : Ryan_39
- Track 5 : Zaheer_39
- Track 6 : Elesar_35
- Track 7 : Popper_37
- Track 8 : Smilerella_19
- Track 9 : BigBoyz_15
- Track 10 : MoRicky_20
- Track 11 : Min1_01

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigBoyz_15, Cole_37, Elesar_35, Gusanita_38, Nandita_39, Popper_37, Ryan_39, Zaheer_39,

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

- Smilerella_19,

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

- Min1_01, MoRicky_20,

Summary by start number:

Start 1:

- Found in 1 of 11 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Smilerella_19 (GH),

Start 2:

- Found in 1 of 11 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MoRicky_20 (GH),

Start 4:

- Found in 9 of 11 (81.8%) of genes in pham
- Manual Annotations of this start: 7 of 7
- Called 88.9% of time when present
- Phage (with cluster) where this start called: BigBoyz_15 (GH), Cole_37 (FF), Elesar_35 (FF), Gusanita_38 (FF), Nandita_39 (FF), Popper_37 (FF), Ryan_39 (FF), Zaheer_39 (FF),

Start 14:

- Found in 1 of 11 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Min1_01 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, FF, GH,

Info for manual annotations of cluster FF:

- Start number 4 was manually annotated 7 times for cluster FF.

Gene Information:

Gene: BigBoyz_15 Start: 12973, Stop: 12104, Start Num: 4

Candidate Starts for BigBoyz_15:

(Start: 4 @12973 has 7 MA's), (5, 12943), (8, 12850), (10, 12832), (12, 12793), (17, 12688), (18, 12685), (19, 12679), (22, 12631), (24, 12595), (27, 12562), (28, 12544), (35, 12457), (37, 12433), (38, 12367), (44, 12247), (45, 12244), (51, 12139), (52, 12115),

Gene: Cole_37 Start: 28322, Stop: 27447, Start Num: 4

Candidate Starts for Cole_37:

(Start: 4 @28322 has 7 MA's), (6, 28283), (9, 28196), (13, 28136), (15, 28097), (18, 28046), (21, 28010), (22, 27992), (24, 27956), (26, 27929), (28, 27905), (29, 27890), (31, 27860), (34, 27827), (36, 27806), (37, 27794), (38, 27722), (39, 27710), (42, 27626), (46, 27584), (48, 27569),

Gene: Elesar_35 Start: 29248, Stop: 28373, Start Num: 4

Candidate Starts for Elesar_35:

(Start: 4 @29248 has 7 MA's), (6, 29209), (7, 29137), (9, 29122), (15, 29023), (18, 28972), (24, 28882), (27, 28849), (28, 28831), (29, 28816), (31, 28786), (34, 28753), (36, 28732), (37, 28720), (38, 28648), (39, 28636), (41, 28564), (42, 28552), (46, 28510), (48, 28495),

Gene: Gusanita_38 Start: 28900, Stop: 28025, Start Num: 4

Candidate Starts for Gusanita_38:

(Start: 4 @28900 has 7 MA's), (6, 28861), (9, 28774), (11, 28747), (15, 28675), (16, 28654), (18, 28624), (24, 28534), (30, 28441), (31, 28438), (34, 28405), (36, 28384), (37, 28372), (38, 28300), (42, 28204), (46, 28162), (48, 28147), (53, 28042),

Gene: Min1_01 Start: 771, Stop: 1, Start Num: 14

Candidate Starts for Min1_01:

(14, 771), (15, 750), (20, 669), (23, 612), (25, 606), (26, 582), (40, 318), (42, 294), (46, 252), (49, 210), (50, 183), (53, 129),

Gene: MoRicky_20 Start: 13746, Stop: 12850, Start Num: 2

Candidate Starts for MoRicky_20:

(2, 13746), (10, 13587), (12, 13548), (18, 13440), (19, 13434), (22, 13386), (24, 13350), (27, 13317), (32, 13251), (33, 13236), (35, 13212), (36, 13200), (37, 13188), (38, 13122), (43, 13026), (45, 12999), (47, 12984), (49, 12945),

Gene: Nandita_39 Start: 28503, Stop: 27628, Start Num: 4

Candidate Starts for Nandita_39:

(Start: 4 @28503 has 7 MA's), (6, 28464), (13, 28317), (15, 28278), (18, 28227), (21, 28191), (24, 28137), (26, 28110), (27, 28104), (28, 28086), (29, 28071), (31, 28041), (34, 28008), (36, 27987), (37, 27975), (38, 27903), (42, 27807), (46, 27765), (48, 27750),

Gene: Popper_37 Start: 28406, Stop: 27531, Start Num: 4

Candidate Starts for Popper_37:

(Start: 4 @28406 has 7 MA's), (6, 28367), (9, 28280), (15, 28181), (18, 28130), (21, 28094), (24, 28040), (26, 28013), (27, 28007), (28, 27989), (29, 27974), (31, 27944), (36, 27890), (37, 27878), (38, 27806), (42, 27710), (46, 27668), (48, 27653),

Gene: Ryan_39 Start: 29105, Stop: 28230, Start Num: 4

Candidate Starts for Ryan_39:

(Start: 4 @29105 has 7 MA's), (6, 29066), (13, 28919), (15, 28880), (18, 28829), (21, 28793), (24, 28739), (26, 28712), (28, 28688), (29, 28673), (31, 28643), (34, 28610), (36, 28589), (37, 28577), (38, 28505), (39, 28493), (42, 28409), (46, 28367), (48, 28352),

Gene: Smilerella_19 Start: 13836, Stop: 12850, Start Num: 1

Candidate Starts for Smilerella_19:

(1, 13836), (3, 13734), (Start: 4 @13728 has 7 MA's), (10, 13587), (12, 13548), (18, 13440), (19, 13434), (22, 13386), (24, 13350), (27, 13317), (32, 13251), (33, 13236), (35, 13212), (36, 13200), (37, 13188), (38, 13122), (43, 13026), (45, 12999), (47, 12984), (49, 12945),

Gene: Zaheer_39 Start: 29719, Stop: 28844, Start Num: 4

Candidate Starts for Zaheer_39:

(Start: 4 @29719 has 7 MA's), (6, 29680), (9, 29593), (15, 29494), (18, 29443), (21, 29407), (24, 29353), (26, 29326), (27, 29320), (28, 29302), (29, 29287), (31, 29257), (36, 29203), (37, 29191), (38, 29119), (42, 29023), (46, 28981), (48, 28966), (53, 28861),