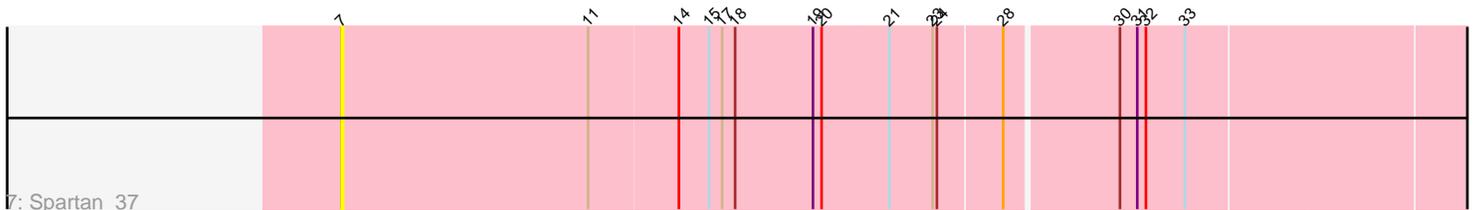
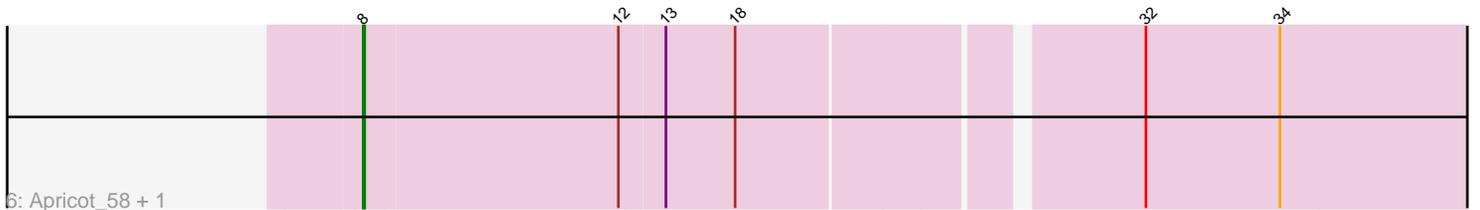
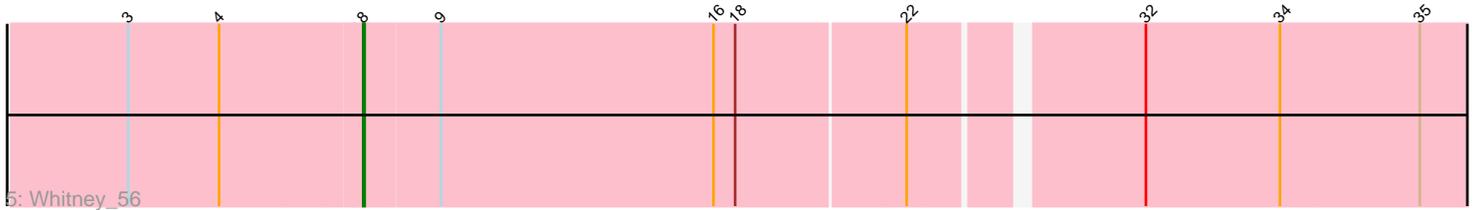
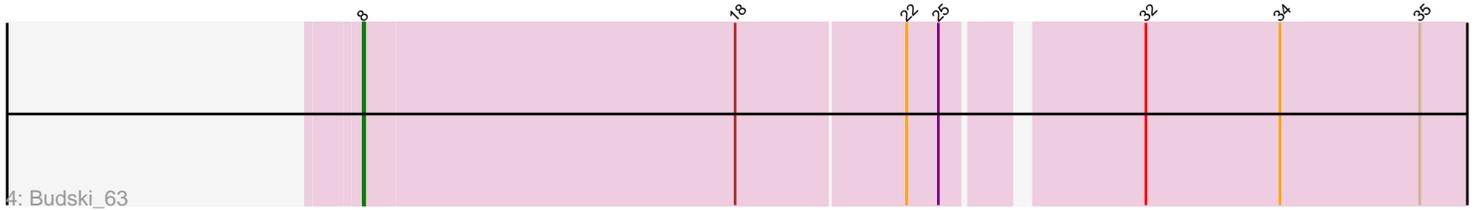
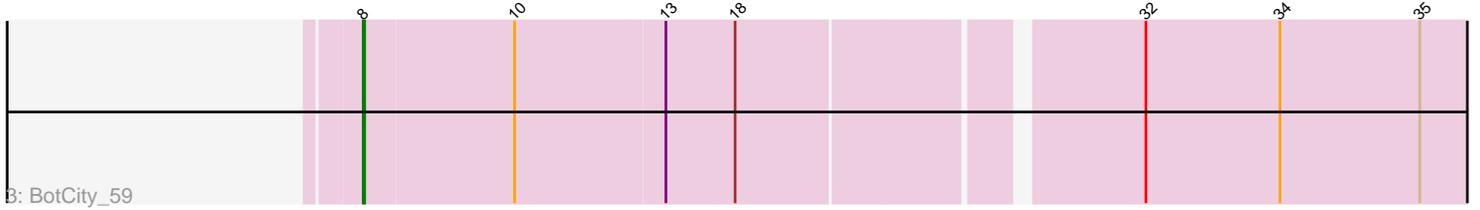
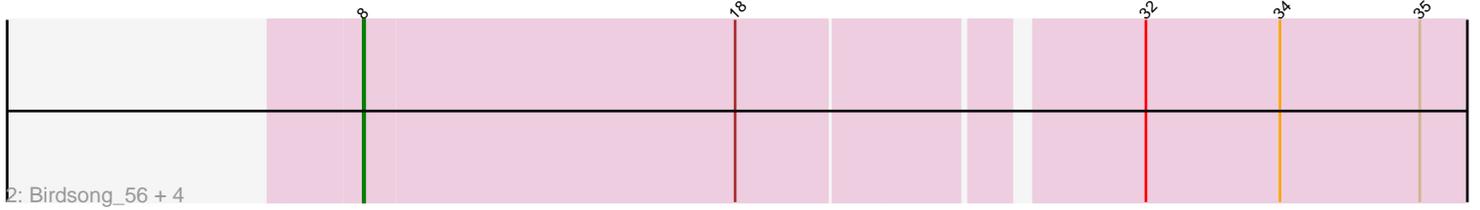
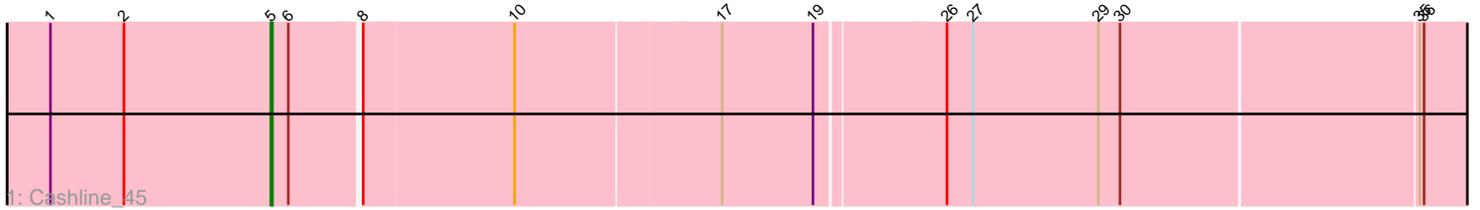


Pham 284351



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 284351 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284351 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Cashline_45
- Track 2 : Birdsong_56, Kenna_56, Asapag_56, Lutum_61, Getalong_59
- Track 3 : BotCity_59
- Track 4 : Budski_63
- Track 5 : Whitney_56
- Track 6 : Apricot_58, Crater_58
- Track 7 : Spartan_37

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

The start number called the most often in the published annotations is 8, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apricot_58, Asapag_56, Birdsong_56, BotCity_59, Budski_63, Crater_58, Getalong_59, Kenna_56, Lutum_61, Whitney_56,

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

- Cashline_45,

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

- Spartan_37,

Summary by start number:

Start 5:

- Found in 1 of 12 (8.3%) 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: Cashline_45 (CY6),

Start 7:

- Found in 1 of 12 (8.3%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spartan_37 (ES),

Start 8:

- Found in 11 of 12 (91.7%) of genes in pham
- Manual Annotations of this start: 10 of 11
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Apricot_58 (DN3), Asapag_56 (DN1), Birdsong_56 (DN), BotCity_59 (DN), Budski_63 (DN), Crater_58 (DN3), Getalong_59 (DN1), Kenna_56 (DN1), Lutum_61 (DN1), Whitney_56 (DN1),

Summary by clusters:

There are 5 clusters represented in this pham: DN, DN1, DN3, ES, CY6,

Info for manual annotations of cluster CY6:

- Start number 5 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster DN:

- Start number 8 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 8 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 8 was manually annotated 2 times for cluster DN3.

Gene Information:

Gene: Apricot_58 Start: 37168, Stop: 37944, Start Num: 8

Candidate Starts for Apricot_58:

(Start: 8 @37168 has 10 MA's), (12, 37342), (13, 37372), (18, 37420), (32, 37678), (34, 37771),

Gene: Asapag_56 Start: 36674, Stop: 37453, Start Num: 8

Candidate Starts for Asapag_56:

(Start: 8 @36674 has 10 MA's), (18, 36929), (32, 37187), (34, 37280), (35, 37376),

Gene: Birdsong_56 Start: 36895, Stop: 37674, Start Num: 8

Candidate Starts for Birdsong_56:

(Start: 8 @36895 has 10 MA's), (18, 37150), (32, 37408), (34, 37501), (35, 37597),

Gene: BotCity_59 Start: 38122, Stop: 38898, Start Num: 8

Candidate Starts for BotCity_59:

(Start: 8 @38122 has 10 MA's), (10, 38224), (13, 38326), (18, 38374), (32, 38632), (34, 38725), (35, 38821),

Gene: Budski_63 Start: 39082, Stop: 39861, Start Num: 8

Candidate Starts for Budski_63:

(Start: 8 @39082 has 10 MA's), (18, 39337), (22, 39451), (25, 39472), (32, 39595), (34, 39688), (35, 39784),

Gene: Cashline_45 Start: 35939, Stop: 36781, Start Num: 5

Candidate Starts for Cashline_45:

(1, 35786), (2, 35837), (Start: 5 @35939 has 1 MA's), (6, 35951), (Start: 8 @35996 has 10 MA's), (10, 36098), (17, 36236), (19, 36299), (26, 36383), (27, 36401), (29, 36488), (30, 36503), (35, 36704), (36, 36707),

Gene: Crater_58 Start: 37563, Stop: 38339, Start Num: 8

Candidate Starts for Crater_58:

(Start: 8 @37563 has 10 MA's), (12, 37737), (13, 37767), (18, 37815), (32, 38073), (34, 38166),

Gene: Getalong_59 Start: 38926, Stop: 39705, Start Num: 8

Candidate Starts for Getalong_59:

(Start: 8 @38926 has 10 MA's), (18, 39181), (32, 39439), (34, 39532), (35, 39628),

Gene: Kenna_56 Start: 37127, Stop: 37906, Start Num: 8

Candidate Starts for Kenna_56:

(Start: 8 @37127 has 10 MA's), (18, 37382), (32, 37640), (34, 37733), (35, 37829),

Gene: Lutum_61 Start: 38291, Stop: 39070, Start Num: 8

Candidate Starts for Lutum_61:

(Start: 8 @38291 has 10 MA's), (18, 38546), (32, 38804), (34, 38897), (35, 38993),

Gene: Spartan_37 Start: 33069, Stop: 33911, Start Num: 7

Candidate Starts for Spartan_37:

(7, 33069), (11, 33240), (14, 33300), (15, 33321), (17, 33330), (18, 33339), (19, 33393), (20, 33399), (21, 33444), (23, 33474), (24, 33477), (28, 33519), (30, 33594), (31, 33606), (32, 33612), (33, 33639),

Gene: Whitney_56 Start: 38733, Stop: 39512, Start Num: 8

Candidate Starts for Whitney_56:

(3, 38580), (4, 38643), (Start: 8 @38733 has 10 MA's), (9, 38784), (16, 38973), (18, 38988), (22, 39102), (32, 39246), (34, 39339), (35, 39435),