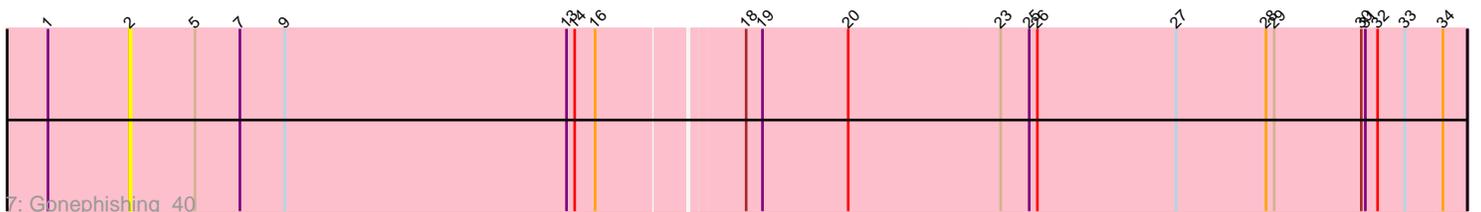
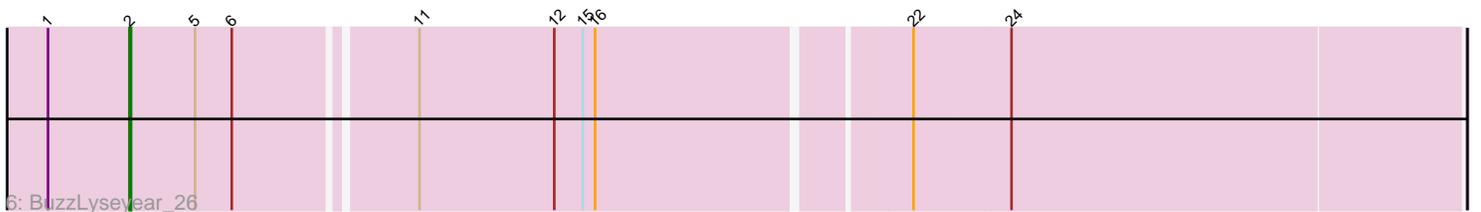
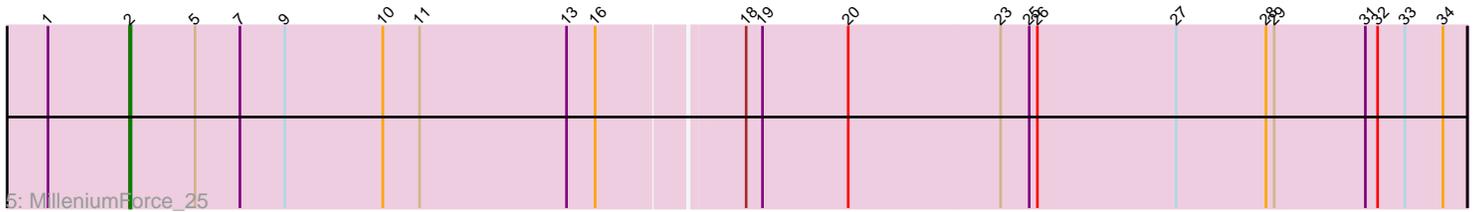
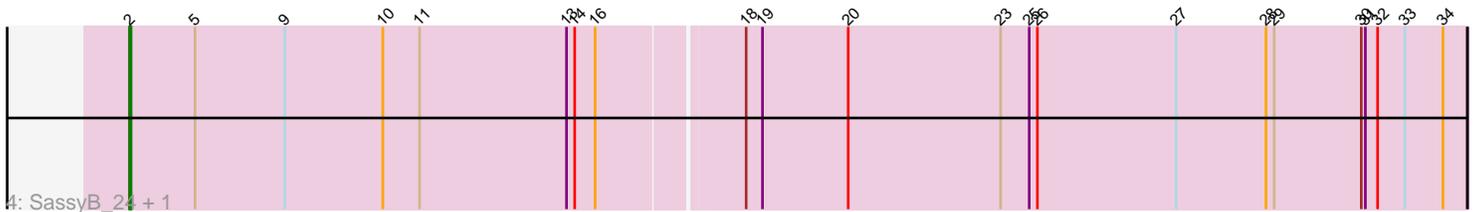
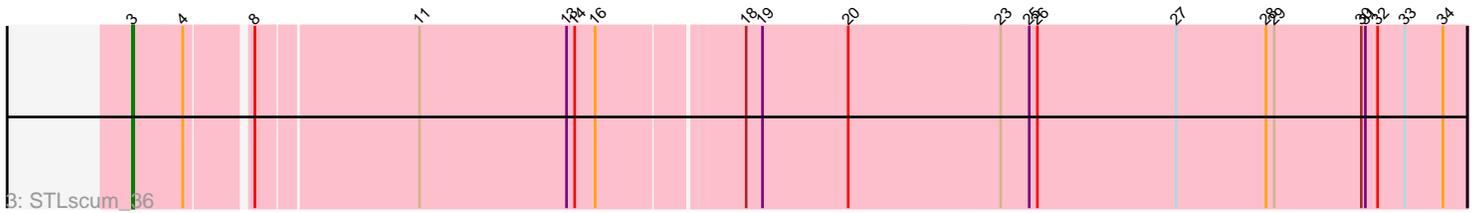
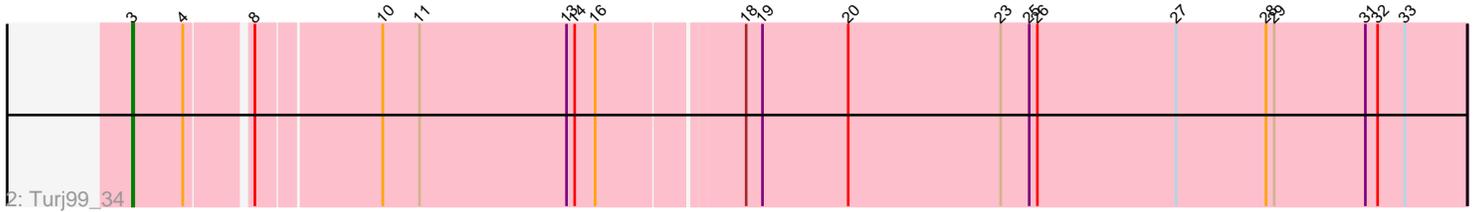
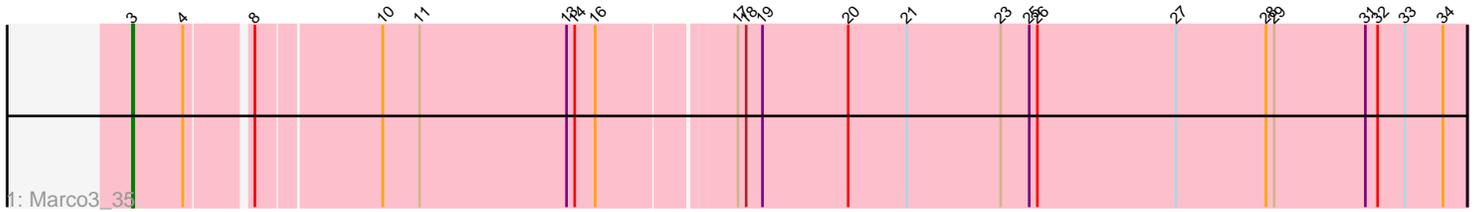


Pham 290033



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 290033 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290033 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Marco3_35
- Track 2 : Turj99_34
- Track 3 : STLscum_36
- Track 4 : SassyB_24, PopTart_24
- Track 5 : MilleniumForce_25
- Track 6 : BuzzLyseyear_26
- Track 7 : Gonephishing_40

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

The start number called the most often in the published annotations is 2, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BuzzLyseyear_26, Gonephishing_40, MilleniumForce_25, PopTart_24, SassyB_24,

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

-

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

- Marco3_35, STLscum_36, Turj99_34,

Summary by start number:

Start 2:

- Found in 5 of 8 (62.5%) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BuzzLyseyear_26 (F1), Gonephishing_40 (J), MilleniumForce_25 (F1), PopTart_24 (F1), SassyB_24 (F1),

Start 3:

- Found in 3 of 8 (37.5%) of genes in pham
- Manual Annotations of this start: 3 of 7

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marco3_35 (A1), STLscum_36 (A1), Turj99_34 (A1),

Summary by clusters:

There are 3 clusters represented in this pham: A1, F1, J,

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 3 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 2 was manually annotated 4 times for cluster F1.

Gene Information:

Gene: BuzzLyseyear_26 Start: 24659, Stop: 25597, Start Num: 2

Candidate Starts for BuzzLyseyear_26:

(1, 24599), (Start: 2 @24659 has 4 MA's), (5, 24707), (6, 24734), (11, 24857), (12, 24956), (15, 24977), (16, 24986), (22, 25202), (24, 25271),

Gene: Gonephishing_40 Start: 34779, Stop: 35744, Start Num: 2

Candidate Starts for Gonephishing_40:

(1, 34719), (Start: 2 @34779 has 4 MA's), (5, 34827), (7, 34860), (9, 34893), (13, 35100), (14, 35106), (16, 35121), (18, 35220), (19, 35232), (20, 35295), (23, 35406), (25, 35427), (26, 35433), (27, 35535), (28, 35601), (29, 35607), (30, 35670), (31, 35673), (32, 35682), (33, 35700), (34, 35727),

Gene: Marco3_35 Start: 28159, Stop: 29103, Start Num: 3

Candidate Starts for Marco3_35:

(Start: 3 @28159 has 3 MA's), (4, 28195), (8, 28237), (10, 28324), (11, 28351), (13, 28459), (14, 28465), (16, 28480), (17, 28573), (18, 28579), (19, 28591), (20, 28654), (21, 28696), (23, 28765), (25, 28786), (26, 28792), (27, 28894), (28, 28960), (29, 28966), (31, 29032), (32, 29041), (33, 29059), (34, 29086),

Gene: MilleniumForce_25 Start: 25077, Stop: 26042, Start Num: 2

Candidate Starts for MilleniumForce_25:

(1, 25017), (Start: 2 @25077 has 4 MA's), (5, 25125), (7, 25158), (9, 25191), (10, 25263), (11, 25290), (13, 25398), (16, 25419), (18, 25518), (19, 25530), (20, 25593), (23, 25704), (25, 25725), (26, 25731), (27, 25833), (28, 25899), (29, 25905), (31, 25971), (32, 25980), (33, 25998), (34, 26025),

Gene: PopTart_24 Start: 24313, Stop: 25278, Start Num: 2

Candidate Starts for PopTart_24:

(Start: 2 @24313 has 4 MA's), (5, 24361), (9, 24427), (10, 24499), (11, 24526), (13, 24634), (14, 24640), (16, 24655), (18, 24754), (19, 24766), (20, 24829), (23, 24940), (25, 24961), (26, 24967), (27, 25069), (28, 25135), (29, 25141), (30, 25204), (31, 25207), (32, 25216), (33, 25234), (34, 25261),

Gene: STLscum_36 Start: 28859, Stop: 29803, Start Num: 3

Candidate Starts for STLscum_36:

(Start: 3 @28859 has 3 MA's), (4, 28895), (8, 28937), (11, 29051), (13, 29159), (14, 29165), (16, 29180), (18, 29279), (19, 29291), (20, 29354), (23, 29465), (25, 29486), (26, 29492), (27, 29594), (28,

29660), (29, 29666), (30, 29729), (31, 29732), (32, 29741), (33, 29759), (34, 29786),

Gene: SassyB_24 Start: 24313, Stop: 25278, Start Num: 2

Candidate Starts for SassyB_24:

(Start: 2 @24313 has 4 MA's), (5, 24361), (9, 24427), (10, 24499), (11, 24526), (13, 24634), (14, 24640), (16, 24655), (18, 24754), (19, 24766), (20, 24829), (23, 24940), (25, 24961), (26, 24967), (27, 25069), (28, 25135), (29, 25141), (30, 25204), (31, 25207), (32, 25216), (33, 25234), (34, 25261),

Gene: Turj99_34 Start: 27794, Stop: 28738, Start Num: 3

Candidate Starts for Turj99_34:

(Start: 3 @27794 has 3 MA's), (4, 27830), (8, 27872), (10, 27959), (11, 27986), (13, 28094), (14, 28100), (16, 28115), (18, 28214), (19, 28226), (20, 28289), (23, 28400), (25, 28421), (26, 28427), (27, 28529), (28, 28595), (29, 28601), (31, 28667), (32, 28676), (33, 28694),