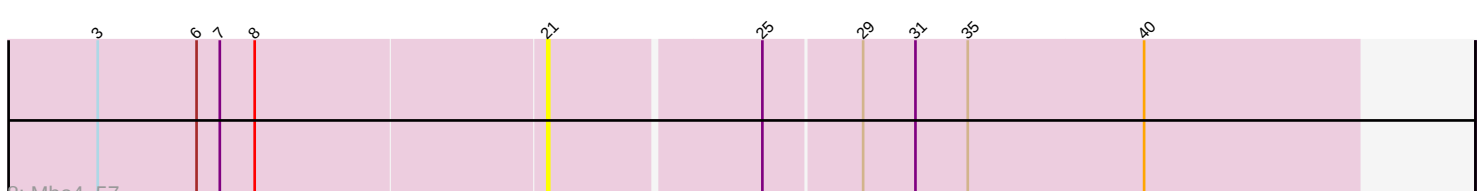
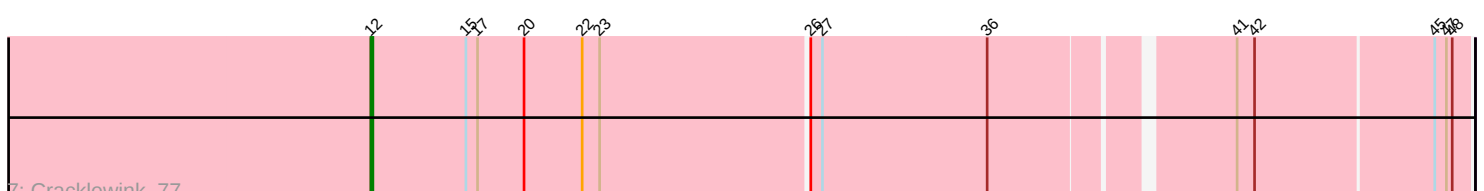
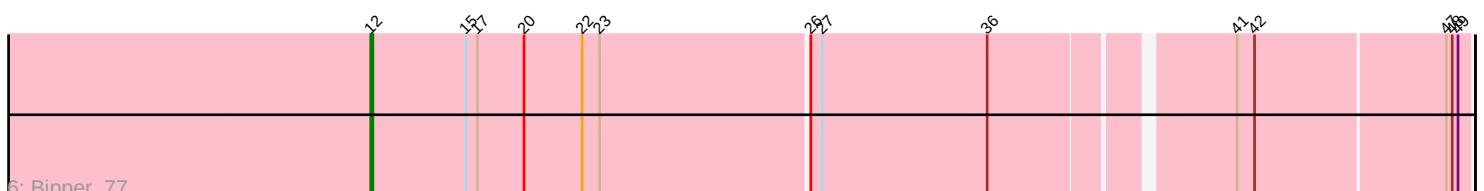
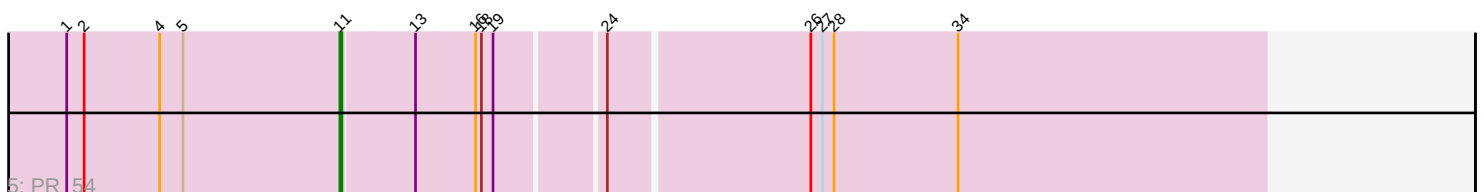
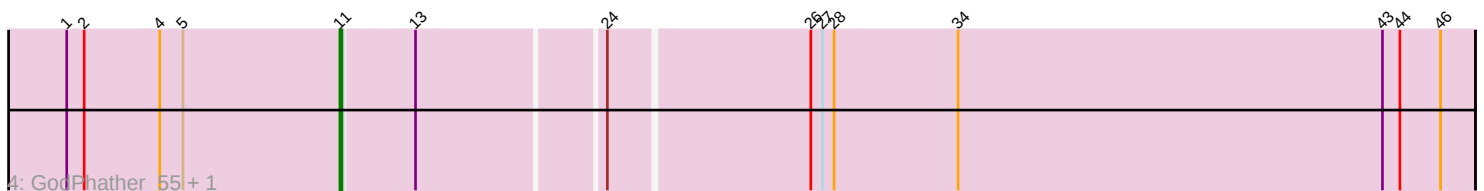
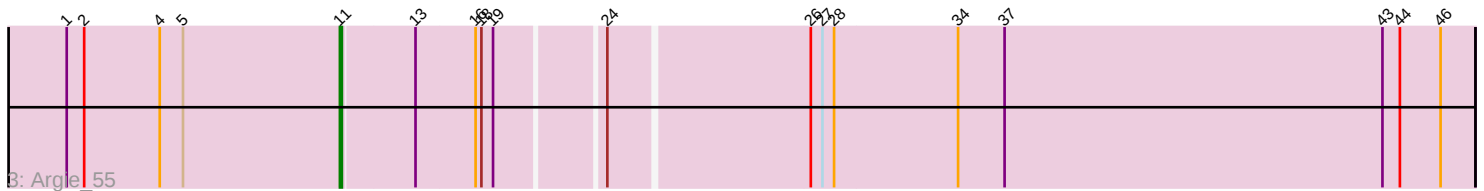
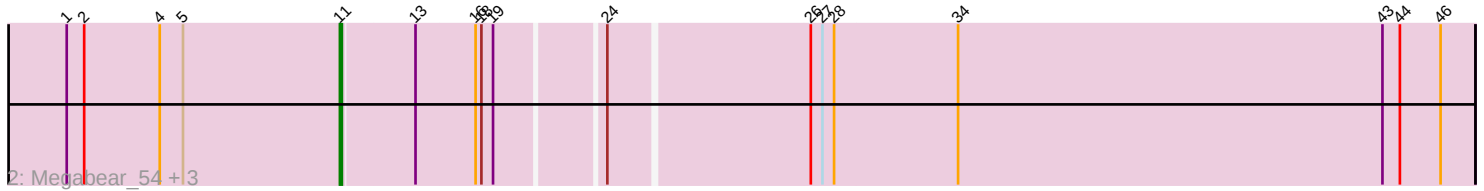
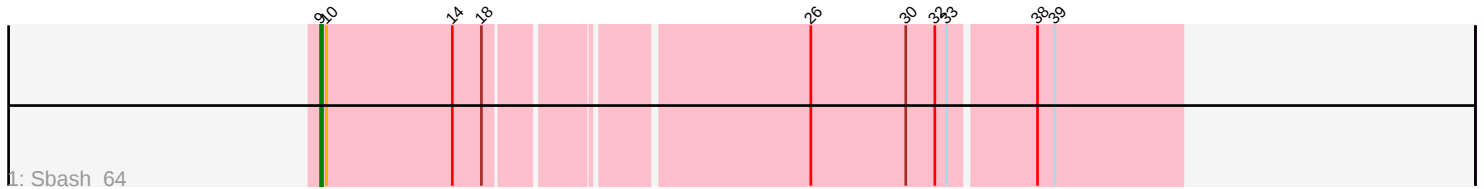


Pham 309644



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 309644 Report

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

Pham number 309644 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Sbash_64
- Track 2 : Megabear_54, Cepens_54, Taptic_54, D12_53
- Track 3 : Argie_55
- Track 4 : GodPhather_55, Jeon_54
- Track 5 : PR_54
- Track 6 : Bipper_77
- Track 7 : Cracklewink_77
- Track 8 : Mbo4_57

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

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

Genes that call this "Most Annotated" start:

- Argie_55, Cepens_54, D12_53, GodPhather_55, Jeon_54, Megabear_54, PR_54, Taptic_54,

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

-

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

- Bipper_77, Cracklewink_77, Mbo4_57, Sbash_64,

Summary by start number:

Start 9:

- 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: Sbash_64 (I2),

Start 11:

- Found in 8 of 12 (66.7%) of genes in pham

- Manual Annotations of this start: 8 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_55 (W), Cepens_54 (W), D12_53 (W), GodPhather_55 (W), Jeon_54 (W), Megabear_54 (W), PR_54 (W), Taptic_54 (W),

Start 12:

- Found in 2 of 12 (16.7%) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bipper_77 (Y), Cracklewink_77 (Y),

Start 21:

- 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: Mbo4_57 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: Y, singleton, I2, W,

Info for manual annotations of cluster I2:

- Start number 9 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster W:

- Start number 11 was manually annotated 8 times for cluster W.

Info for manual annotations of cluster Y:

- Start number 12 was manually annotated 2 times for cluster Y.

Gene Information:

Gene: Argie_55 Start: 44729, Stop: 45295, Start Num: 11

Candidate Starts for Argie_55:

(1, 44588), (2, 44597), (4, 44636), (5, 44648), (Start: 11 @44729 has 8 MA's), (13, 44765), (16, 44795), (18, 44798), (19, 44804), (24, 44855), (26, 44954), (27, 44960), (28, 44966), (34, 45029), (37, 45053), (43, 45248), (44, 45257), (46, 45278),

Gene: Bipper_77 Start: 50989, Stop: 51531, Start Num: 12

Candidate Starts for Bipper_77:

(Start: 12 @50989 has 2 MA's), (15, 51037), (17, 51043), (20, 51067), (22, 51097), (23, 51106), (26, 51211), (27, 51217), (36, 51301), (41, 51415), (42, 51424), (47, 51520), (48, 51523), (49, 51526),

Gene: Cepens_54 Start: 44444, Stop: 45010, Start Num: 11

Candidate Starts for Cepens_54:

(1, 44303), (2, 44312), (4, 44351), (5, 44363), (Start: 11 @44444 has 8 MA's), (13, 44480), (16, 44510), (18, 44513), (19, 44519), (24, 44570), (26, 44669), (27, 44675), (28, 44681), (34, 44744), (43, 44963), (44, 44972), (46, 44993),

Gene: Cracklewink_77 Start: 50023, Stop: 50565, Start Num: 12

Candidate Starts for Cracklewink_77:

(Start: 12 @50023 has 2 MA's), (15, 50071), (17, 50077), (20, 50101), (22, 50131), (23, 50140), (26, 50245), (27, 50251), (36, 50335), (41, 50449), (42, 50458), (45, 50548), (47, 50554), (48, 50557),

Gene: D12_53 Start: 44992, Stop: 45558, Start Num: 11

Candidate Starts for D12_53:

(1, 44851), (2, 44860), (4, 44899), (5, 44911), (Start: 11 @44992 has 8 MA's), (13, 45028), (16, 45058), (18, 45061), (19, 45067), (24, 45118), (26, 45217), (27, 45223), (28, 45229), (34, 45292), (43, 45511), (44, 45520), (46, 45541),

Gene: GodPhather_55 Start: 45232, Stop: 45798, Start Num: 11

Candidate Starts for GodPhather_55:

(1, 45091), (2, 45100), (4, 45139), (5, 45151), (Start: 11 @45232 has 8 MA's), (13, 45268), (24, 45358), (26, 45457), (27, 45463), (28, 45469), (34, 45532), (43, 45751), (44, 45760), (46, 45781),

Gene: Jeon_54 Start: 44974, Stop: 45540, Start Num: 11

Candidate Starts for Jeon_54:

(1, 44833), (2, 44842), (4, 44881), (5, 44893), (Start: 11 @44974 has 8 MA's), (13, 45010), (24, 45100), (26, 45199), (27, 45205), (28, 45211), (34, 45274), (43, 45493), (44, 45502), (46, 45523),

Gene: Mbo4_57 Start: 40995, Stop: 41402, Start Num: 21

Candidate Starts for Mbo4_57:

(3, 40767), (6, 40818), (7, 40830), (8, 40848), (21, 40995), (25, 41100), (29, 41148), (31, 41175), (35, 41202), (40, 41292),

Gene: Megabear_54 Start: 44365, Stop: 44931, Start Num: 11

Candidate Starts for Megabear_54:

(1, 44224), (2, 44233), (4, 44272), (5, 44284), (Start: 11 @44365 has 8 MA's), (13, 44401), (16, 44431), (18, 44434), (19, 44440), (24, 44491), (26, 44590), (27, 44596), (28, 44602), (34, 44665), (43, 44884), (44, 44893), (46, 44914),

Gene: PR_54 Start: 44969, Stop: 45427, Start Num: 11

Candidate Starts for PR_54:

(1, 44828), (2, 44837), (4, 44876), (5, 44888), (Start: 11 @44969 has 8 MA's), (13, 45005), (16, 45035), (18, 45038), (19, 45044), (24, 45095), (26, 45194), (27, 45200), (28, 45206), (34, 45269),

Gene: Sbash_64 Start: 44044, Stop: 44457, Start Num: 9

Candidate Starts for Sbash_64:

(Start: 9 @44044 has 1 MA's), (10, 44047), (14, 44110), (18, 44125), (26, 44275), (30, 44323), (32, 44338), (33, 44344), (38, 44386), (39, 44395),

Gene: Taptic_54 Start: 44365, Stop: 44931, Start Num: 11

Candidate Starts for Taptic_54:

(1, 44224), (2, 44233), (4, 44272), (5, 44284), (Start: 11 @44365 has 8 MA's), (13, 44401), (16, 44431), (18, 44434), (19, 44440), (24, 44491), (26, 44590), (27, 44596), (28, 44602), (34, 44665), (43, 44884), (44, 44893), (46, 44914),