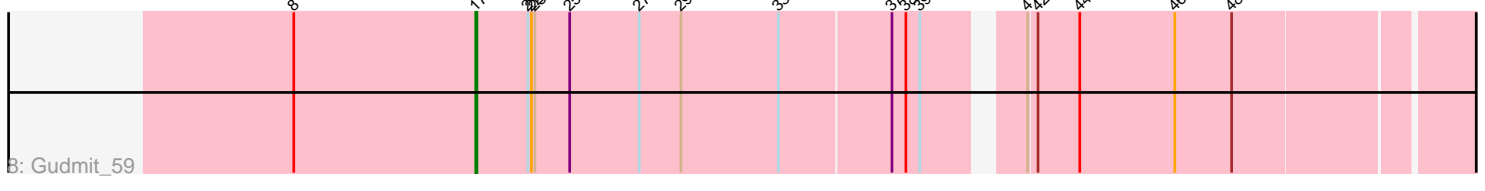
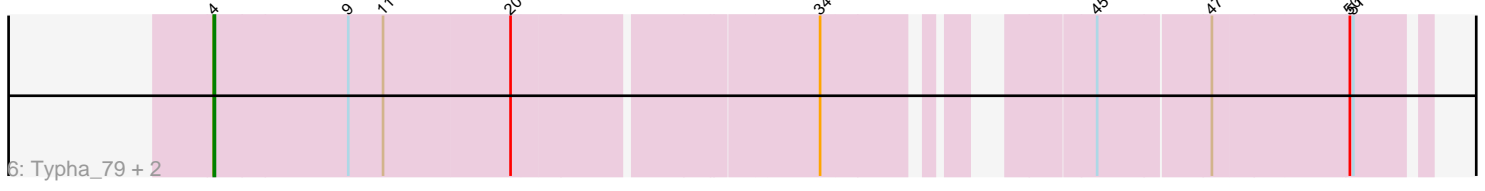
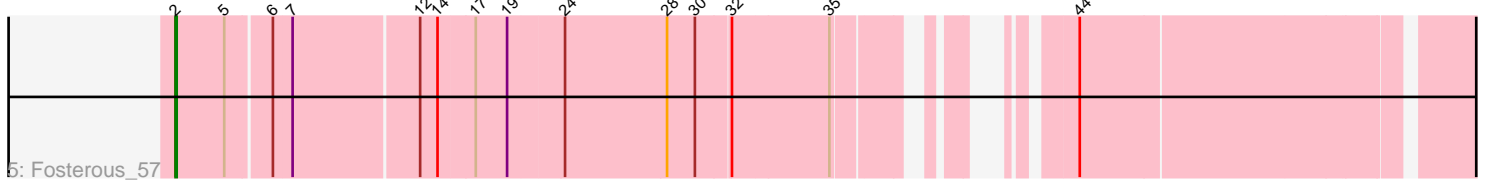
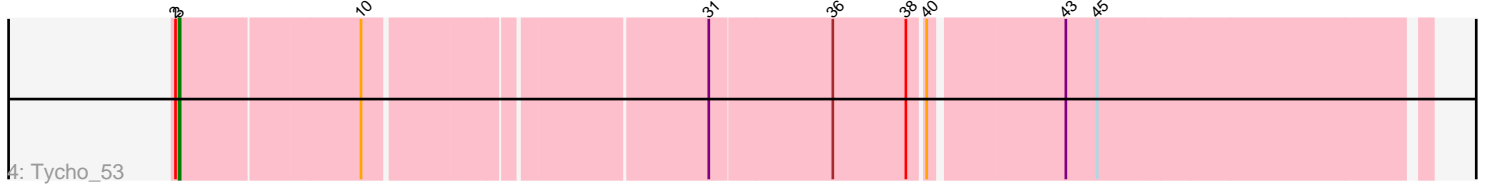
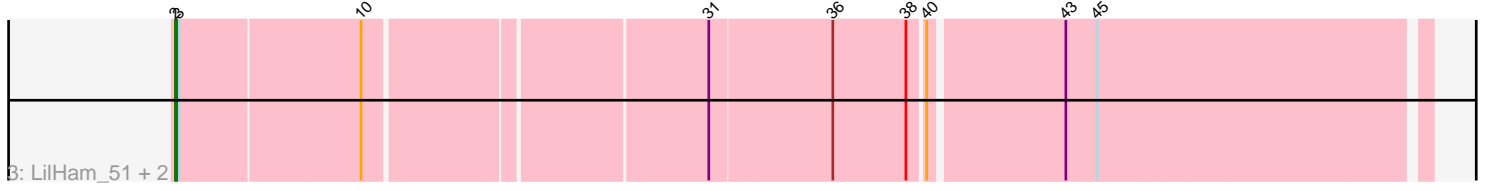
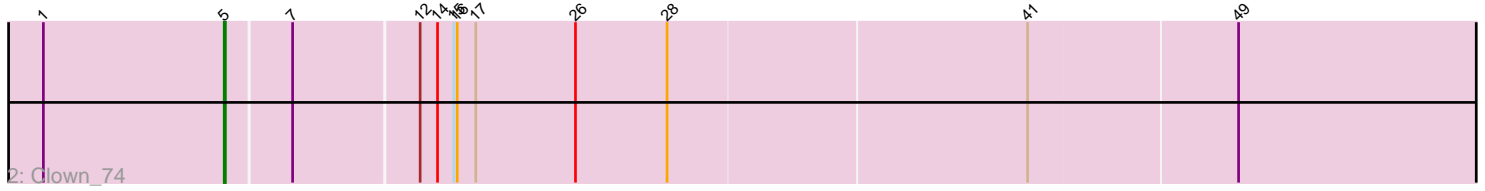
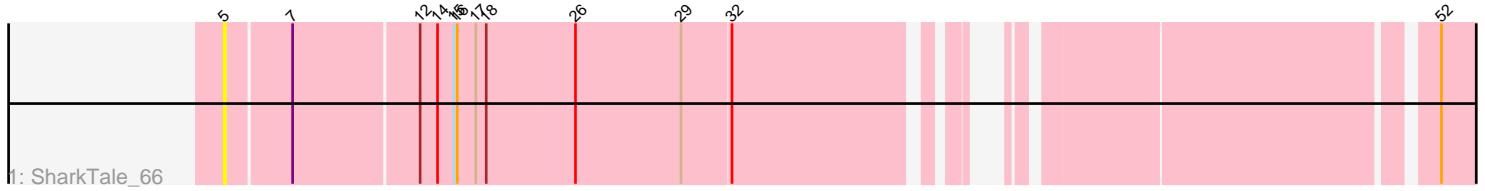


Pham 305443



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 305443 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305443 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : SharkTale_66
- Track 2 : Clown_74
- Track 3 : LilHam_51, StorminNorm_53, Baumdotcom_52
- Track 4 : Tycho_53
- Track 5 : Fosterous_57
- Track 6 : Typha_79, Faiyaz_81, AuntGwenStacy_79
- Track 7 : Hilltopfarm_80
- Track 8 : Gudmit_59

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 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Baumdotcom_52, Fosterous_57, LilHam_51, StorminNorm_53,

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

- Tycho_53,

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

- AuntGwenStacy_79, Clown_74, Faiyaz_81, Gudmit_59, Hilltopfarm_80, SharkTale_66, Typha_79,

Summary by start number:

Start 2:

- Found in 5 of 12 (41.7%) of genes in pham
- Manual Annotations of this start: 4 of 10
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Baumdotcom_52 (DE1), Fosterous_57 (DE1), LilHam_51 (DE1), StorminNorm_53 (DE1),

Start 3:

- Found in 4 of 12 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Tycho_53 (DE1),

Start 4:

- Found in 4 of 12 (33.3%) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_79 (Y), Faiyaz_81 (Y), Hilltopfarm_80 (Y), Typha_79 (Y),

Start 5:

- Found in 3 of 12 (25.0%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Clown_74 (DC2), SharkTale_66 (DC1),

Start 17:

- Found in 4 of 12 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Gudmit_59 (singleton),

Summary by clusters:

There are 5 clusters represented in this pham: Y, DE1, singleton, DC2, DC1,

Info for manual annotations of cluster DC2:

- Start number 5 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 2 was manually annotated 4 times for cluster DE1.
- Start number 3 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster Y:

- Start number 4 was manually annotated 3 times for cluster Y.

Gene Information:

Gene: AuntGwenStacy_79 Start: 52711, Stop: 53646, Start Num: 4

Candidate Starts for AuntGwenStacy_79:

(Start: 4 @52711 has 3 MA's), (9, 52825), (11, 52855), (20, 52963), (34, 53206), (45, 53383), (47, 53476), (50, 53587), (51, 53590),

Gene: Baumdotcom_52 Start: 43883, Stop: 44890, Start Num: 2

Candidate Starts for Baumdotcom_52:

(Start: 2 @43883 has 4 MA's), (Start: 3 @43886 has 1 MA's), (10, 44033), (31, 44306), (36, 44408), (38, 44471), (40, 44483), (43, 44591), (45, 44618),

Gene: Clown_74 Start: 49636, Stop: 50688, Start Num: 5

Candidate Starts for Clown_74:

(1, 49480), (Start: 5 @49636 has 1 MA's), (7, 49687), (12, 49792), (14, 49807), (15, 49819), (16, 49822), (Start: 17 @49837 has 1 MA's), (26, 49918), (28, 49996), (41, 50293), (49, 50467),

Gene: Faiyaz_81 Start: 52717, Stop: 53652, Start Num: 4

Candidate Starts for Faiyaz_81:

(Start: 4 @52717 has 3 MA's), (9, 52831), (11, 52861), (20, 52969), (34, 53212), (45, 53389), (47, 53482), (50, 53593), (51, 53596),

Gene: Fosterous_57 Start: 45597, Stop: 46586, Start Num: 2

Candidate Starts for Fosterous_57:

(Start: 2 @45597 has 4 MA's), (Start: 5 @45639 has 1 MA's), (6, 45675), (7, 45690), (12, 45795), (14, 45810), (Start: 17 @45840 has 1 MA's), (19, 45867), (24, 45912), (28, 45999), (30, 46023), (32, 46050), (35, 46131), (44, 46254),

Gene: Gudmit_59 Start: 35917, Stop: 36753, Start Num: 17

Candidate Starts for Gudmit_59:

(8, 35761), (Start: 17 @35917 has 1 MA's), (21, 35962), (22, 35965), (23, 35968), (25, 35998), (27, 36058), (29, 36094), (33, 36178), (37, 36271), (38, 36283), (39, 36295), (41, 36364), (42, 36370), (44, 36406), (46, 36487), (48, 36535),

Gene: Hilltopfarm_80 Start: 52417, Stop: 53346, Start Num: 4

Candidate Starts for Hilltopfarm_80:

(Start: 4 @52417 has 3 MA's), (9, 52525), (11, 52555), (13, 52600), (20, 52663), (34, 52906), (45, 53083), (47, 53176), (50, 53287), (51, 53290),

Gene: LilHam_51 Start: 43282, Stop: 44289, Start Num: 2

Candidate Starts for LilHam_51:

(Start: 2 @43282 has 4 MA's), (Start: 3 @43285 has 1 MA's), (10, 43432), (31, 43705), (36, 43807), (38, 43870), (40, 43882), (43, 43990), (45, 44017),

Gene: SharkTale_66 Start: 48294, Stop: 49244, Start Num: 5

Candidate Starts for SharkTale_66:

(Start: 5 @48294 has 1 MA's), (7, 48345), (12, 48450), (14, 48465), (15, 48477), (16, 48480), (Start: 17 @48495 has 1 MA's), (18, 48504), (26, 48576), (29, 48666), (32, 48705), (52, 49197),

Gene: StorminNorm_53 Start: 44022, Stop: 45029, Start Num: 2

Candidate Starts for StorminNorm_53:

(Start: 2 @44022 has 4 MA's), (Start: 3 @44025 has 1 MA's), (10, 44172), (31, 44445), (36, 44547), (38, 44610), (40, 44622), (43, 44730), (45, 44757),

Gene: Tycho_53 Start: 43893, Stop: 44897, Start Num: 3

Candidate Starts for Tycho_53:

(Start: 2 @43890 has 4 MA's), (Start: 3 @43893 has 1 MA's), (10, 44040), (31, 44313), (36, 44415), (38, 44478), (40, 44490), (43, 44598), (45, 44625),

Gene: Typha_79 Start: 52711, Stop: 53646, Start Num: 4

Candidate Starts for Typha_79:

(Start: 4 @52711 has 3 MA's), (9, 52825), (11, 52855), (20, 52963), (34, 53206), (45, 53383), (47, 53476), (50, 53587), (51, 53590),