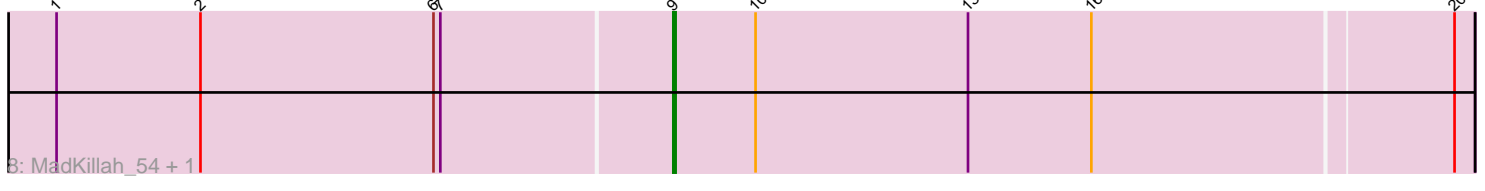
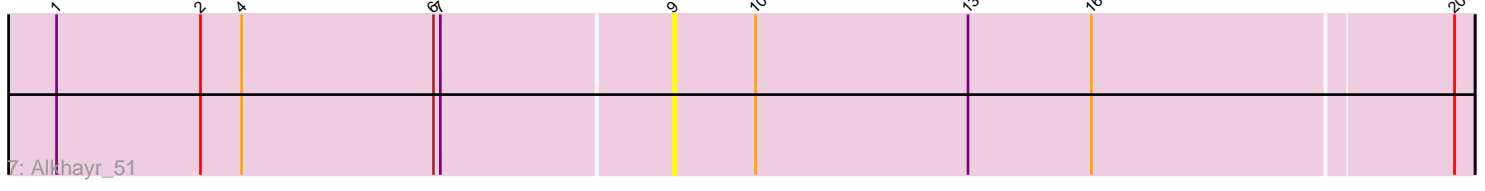
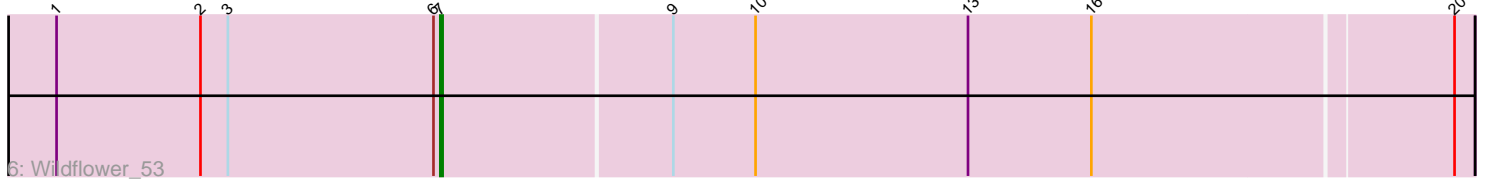
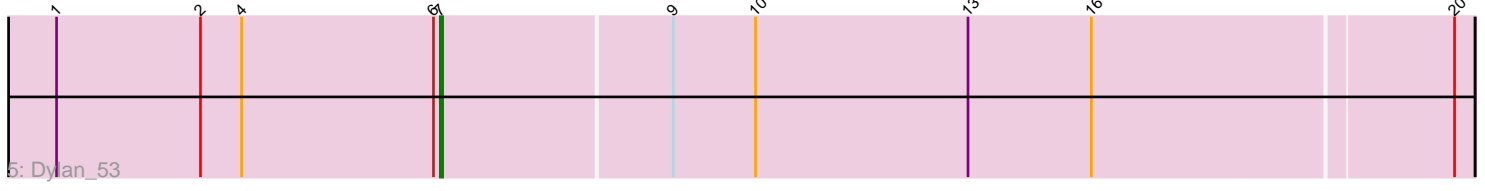
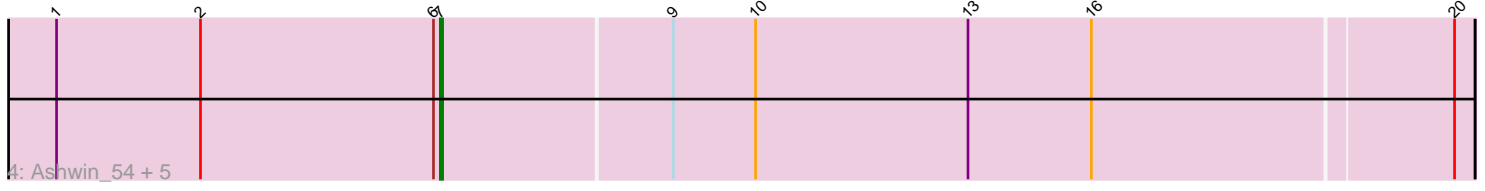
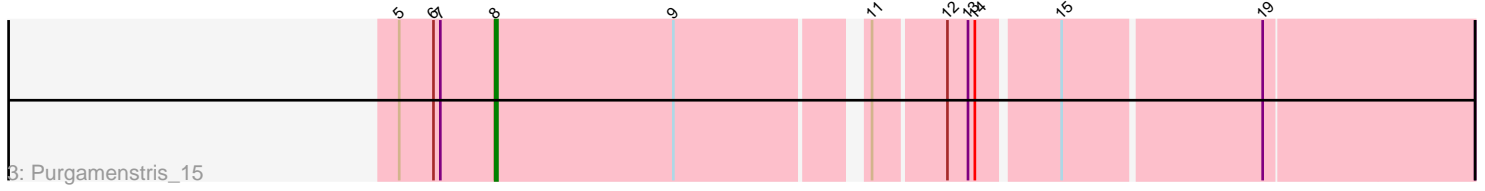
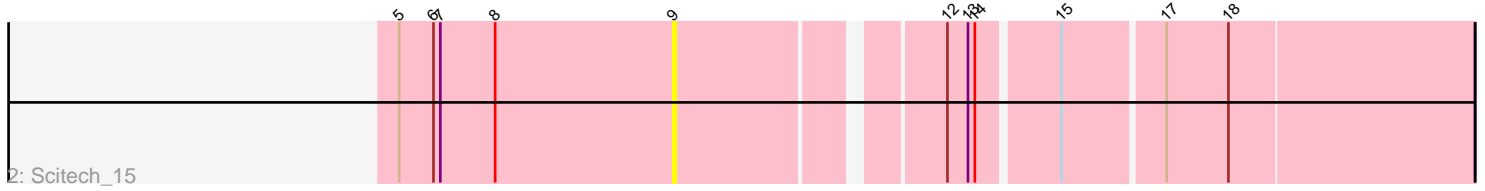
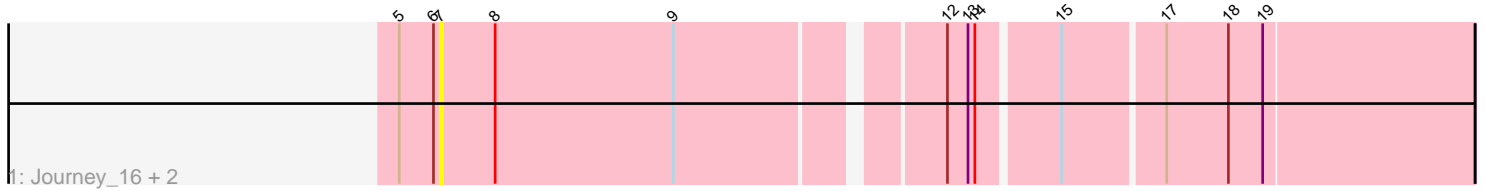


Pham 167071



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 167071 Report

This analysis was run 07/09/24 on database version 566.

Pham number 167071 has 16 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Journey_16, Melville_15, Bosection6_15
- Track 2 : Scitech_15
- Track 3 : Purgamenstris_15
- Track 4 : Ashwin_54, Bora_51, Firecracker_53, Idergollasper_53, Corndog_55, Schuy_54
- Track 5 : Dylan_53
- Track 6 : Wildflower_53
- Track 7 : Alkhayr_51
- Track 8 : MadKillah_54, FoulBall_50

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

The start number called the most often in the published annotations is 7, it was called in 8 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashwin_54, Bora_51, Bosection6_15, Corndog_55, Dylan_53, Firecracker_53, Idergollasper_53, Journey_16, Melville_15, Schuy_54, Wildflower_53,

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

- Alkhayr_51, FoulBall_50, MadKillah_54, Purgamenstris_15, Scitech_15,

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

-

Summary by start number:

Start 7:

- Found in 16 of 16 (100.0%) of genes in pham
- Manual Annotations of this start: 8 of 10
- Called 68.8% of time when present
- Phage (with cluster) where this start called: Ashwin_54 (O), Bora_51 (O), Bosection6_15 (N), Corndog_55 (O), Dylan_53 (O), Firecracker_53 (O), Idergollasper_53 (O), Journey_16 (N), Melville_15 (N), Schuy_54 (O), Wildflower_53

(O),

Start 8:

- Found in 5 of 16 (31.2%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Purgamenstris_15 (N),

Start 9:

- Found in 16 of 16 (100.0%) 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: Alkhayr_51 (O), FoulBall_50 (O), MadKillah_54 (O), Scitech_15 (N),

Summary by clusters:

There are 2 clusters represented in this pham: O, N,

Info for manual annotations of cluster N:

- Start number 8 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster O:

- Start number 7 was manually annotated 8 times for cluster O.
- Start number 9 was manually annotated 1 time for cluster O.

Gene Information:

Gene: Alkhayr_51 Start: 26266, Stop: 26610, Start Num: 9

Candidate Starts for Alkhayr_51:

(1, 25999), (2, 26062), (4, 26080), (6, 26164), (Start: 7 @26167 has 8 MA's), (Start: 9 @26266 has 1 MA's), (10, 26302), (13, 26395), (16, 26449), (20, 26602),

Gene: Ashwin_54 Start: 26165, Stop: 26608, Start Num: 7

Candidate Starts for Ashwin_54:

(1, 25997), (2, 26060), (6, 26162), (Start: 7 @26165 has 8 MA's), (Start: 9 @26264 has 1 MA's), (10, 26300), (13, 26393), (16, 26447), (20, 26600),

Gene: Bora_51 Start: 26129, Stop: 26572, Start Num: 7

Candidate Starts for Bora_51:

(1, 25961), (2, 26024), (6, 26126), (Start: 7 @26129 has 8 MA's), (Start: 9 @26228 has 1 MA's), (10, 26264), (13, 26357), (16, 26411), (20, 26564),

Gene: Bosection6_15 Start: 9517, Stop: 9942, Start Num: 7

Candidate Starts for Bosection6_15:

(5, 9499), (6, 9514), (Start: 7 @9517 has 8 MA's), (Start: 8 @9541 has 1 MA's), (Start: 9 @9619 has 1 MA's), (12, 9724), (13, 9733), (14, 9736), (15, 9769), (17, 9811), (18, 9838), (19, 9853),

Gene: Corndog_55 Start: 26715, Stop: 27158, Start Num: 7

Candidate Starts for Corndog_55:

(1, 26547), (2, 26610), (6, 26712), (Start: 7 @26715 has 8 MA's), (Start: 9 @26814 has 1 MA's), (10, 26850), (13, 26943), (16, 26997), (20, 27150),

Gene: Dylan_53 Start: 26379, Stop: 26822, Start Num: 7

Candidate Starts for Dylan_53:

(1, 26211), (2, 26274), (4, 26292), (6, 26376), (Start: 7 @26379 has 8 MA's), (Start: 9 @26478 has 1 MA's), (10, 26514), (13, 26607), (16, 26661), (20, 26814),

Gene: Firecracker_53 Start: 25868, Stop: 26311, Start Num: 7

Candidate Starts for Firecracker_53:

(1, 25700), (2, 25763), (6, 25865), (Start: 7 @25868 has 8 MA's), (Start: 9 @25967 has 1 MA's), (10, 26003), (13, 26096), (16, 26150), (20, 26303),

Gene: FoulBall_50 Start: 26354, Stop: 26698, Start Num: 9

Candidate Starts for FoulBall_50:

(1, 26087), (2, 26150), (6, 26252), (Start: 7 @26255 has 8 MA's), (Start: 9 @26354 has 1 MA's), (10, 26390), (13, 26483), (16, 26537), (20, 26690),

Gene: Idergollasper_53 Start: 26255, Stop: 26698, Start Num: 7

Candidate Starts for Idergollasper_53:

(1, 26087), (2, 26150), (6, 26252), (Start: 7 @26255 has 8 MA's), (Start: 9 @26354 has 1 MA's), (10, 26390), (13, 26483), (16, 26537), (20, 26690),

Gene: Journey_16 Start: 9517, Stop: 9942, Start Num: 7

Candidate Starts for Journey_16:

(5, 9499), (6, 9514), (Start: 7 @9517 has 8 MA's), (Start: 8 @9541 has 1 MA's), (Start: 9 @9619 has 1 MA's), (12, 9724), (13, 9733), (14, 9736), (15, 9769), (17, 9811), (18, 9838), (19, 9853),

Gene: MadKillah_54 Start: 26293, Stop: 26637, Start Num: 9

Candidate Starts for MadKillah_54:

(1, 26026), (2, 26089), (6, 26191), (Start: 7 @26194 has 8 MA's), (Start: 9 @26293 has 1 MA's), (10, 26329), (13, 26422), (16, 26476), (20, 26629),

Gene: Melville_15 Start: 9517, Stop: 9942, Start Num: 7

Candidate Starts for Melville_15:

(5, 9499), (6, 9514), (Start: 7 @9517 has 8 MA's), (Start: 8 @9541 has 1 MA's), (Start: 9 @9619 has 1 MA's), (12, 9724), (13, 9733), (14, 9736), (15, 9769), (17, 9811), (18, 9838), (19, 9853),

Gene: Purgamenstris_15 Start: 9586, Stop: 9987, Start Num: 8

Candidate Starts for Purgamenstris_15:

(5, 9544), (6, 9559), (Start: 7 @9562 has 8 MA's), (Start: 8 @9586 has 1 MA's), (Start: 9 @9664 has 1 MA's), (11, 9739), (12, 9769), (13, 9778), (14, 9781), (15, 9814), (19, 9898),

Gene: Schuy_54 Start: 26191, Stop: 26634, Start Num: 7

Candidate Starts for Schuy_54:

(1, 26023), (2, 26086), (6, 26188), (Start: 7 @26191 has 8 MA's), (Start: 9 @26290 has 1 MA's), (10, 26326), (13, 26419), (16, 26473), (20, 26626),

Gene: Scitech_15 Start: 9619, Stop: 9942, Start Num: 9

Candidate Starts for Scitech_15:

(5, 9499), (6, 9514), (Start: 7 @9517 has 8 MA's), (Start: 8 @9541 has 1 MA's), (Start: 9 @9619 has 1 MA's), (12, 9724), (13, 9733), (14, 9736), (15, 9769), (17, 9811), (18, 9838),

Gene: Wildflower_53 Start: 25830, Stop: 26273, Start Num: 7

Candidate Starts for Wildflower_53:

(1, 25662), (2, 25725), (3, 25737), (6, 25827), (Start: 7 @25830 has 8 MA's), (Start: 9 @25929 has 1 MA's), (10, 25965), (13, 26058), (16, 26112), (20, 26265),