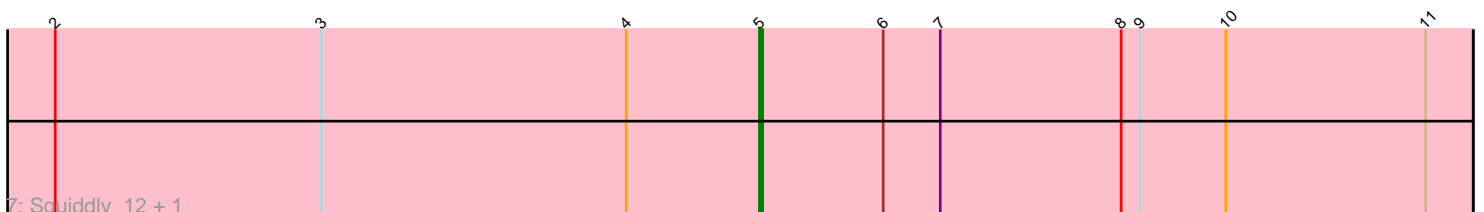
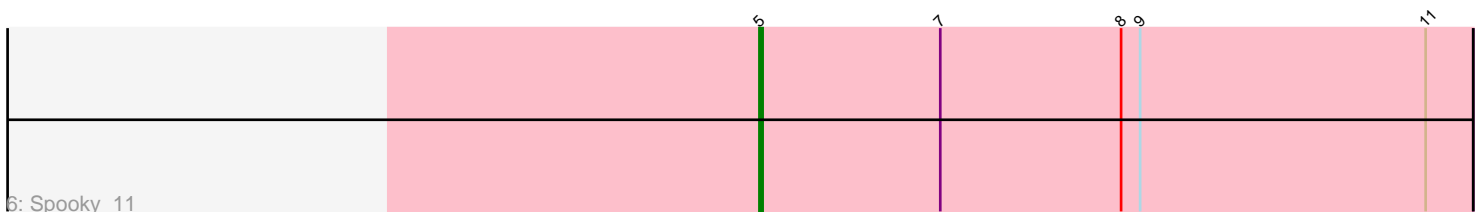
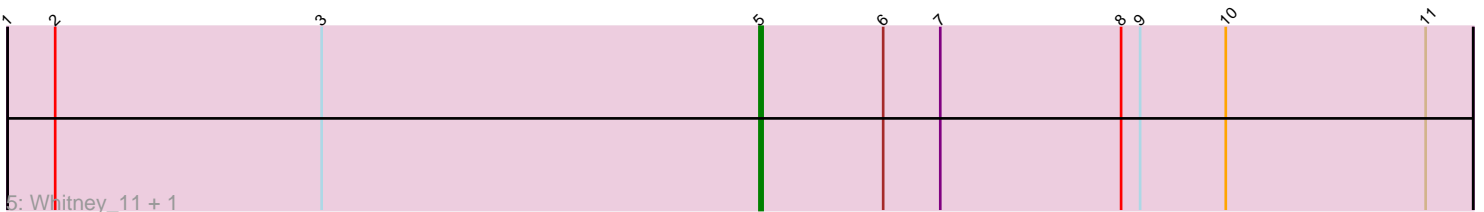
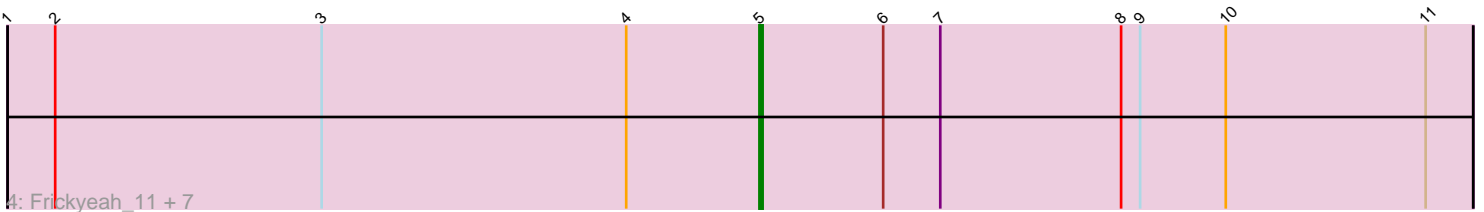
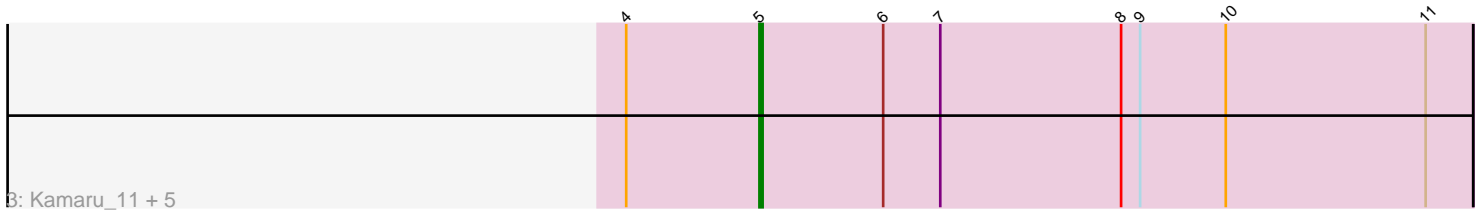
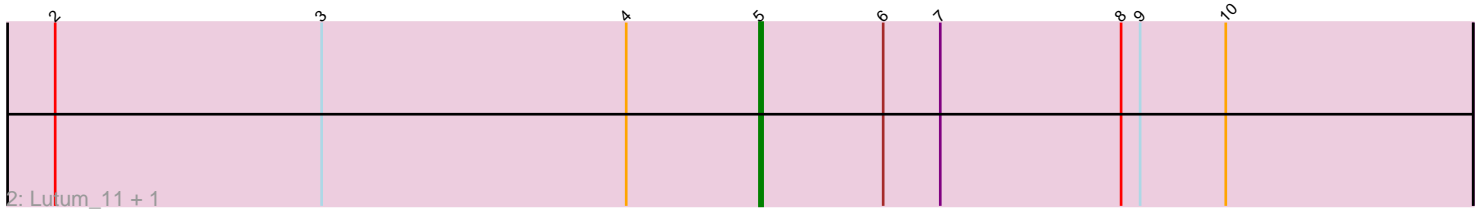
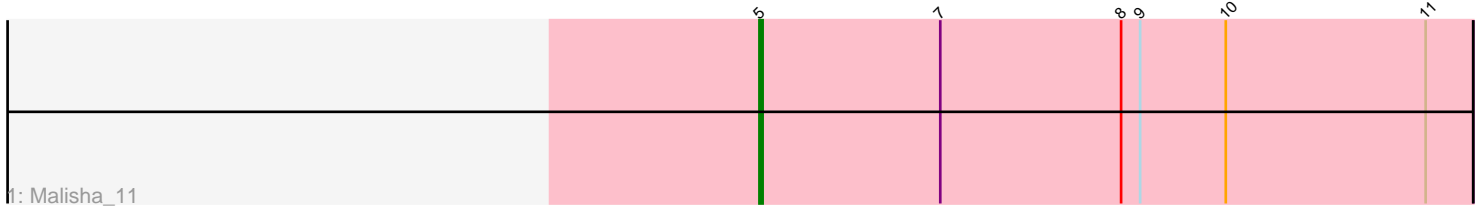


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 210362 Report

This analysis was run 02/22/25 on database version 588.

Pham number 210362 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Malisha_11
- Track 2 : Lutum_11, Kenna_11
- Track 3 : Kamaru_11, Holliday_11, LitninMcQueen_11, CheeseTouch_11, Budski_11, Phabuloso_11
- Track 4 : Frickyeah_11, Asapag_11, BENtherdunthat_11, Periwinkle_11, Leroy_11, Horus_11, ShawBrad_11, BotCity_11
- Track 5 : Whitney_11, Getalong_11
- Track 6 : Spooky_11
- Track 7 : Squiddly_12, Phistory_11

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

The start number called the most often in the published annotations is 5, it was called in 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag_11, BENtherdunthat_11, BotCity_11, Budski_11, CheeseTouch_11, Frickyeah_11, Getalong_11, Holliday_11, Horus_11, Kamaru_11, Kenna_11, Leroy_11, LitninMcQueen_11, Lutum_11, Malisha_11, Periwinkle_11, Phabuloso_11, Phistory_11, ShawBrad_11, Spooky_11, Squiddly_12, Whitney_11,

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

-

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

-

Summary by start number:

Start 5:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Asapag_11 (DN1), BENtherdunthat_11 (DN1), BotCity_11 (DN), Budski_11 (DN), CheeseTouch_11 (DN1), Frickyeah_11 (DN1), Getalong_11 (DN1), Holliday_11 (DN1), Horus_11 (DN1), Kamaru_11 (DN1), Kenna_11 (DN1), Leroy_11 (DN1), LitninMcQueen_11 (DN1), Lutum_11 (DN1), Malisha_11 (DN), Periwinkle_11 (DN1), Phabuloso_11 (DN1), Phistory_11 (DN1), ShawBrad_11 (DN1), Spooky_11 (DN2), Squiddly_12 (DN2), Whitney_11 (DN1),

Summary by clusters:

There are 3 clusters represented in this pham: DN, DN1, DN2,

Info for manual annotations of cluster DN:

•Start number 5 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

•Start number 5 was manually annotated 15 times for cluster DN1.

Info for manual annotations of cluster DN2:

•Start number 5 was manually annotated 2 times for cluster DN2.

Gene Information:

Gene: Asapag_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Asapag_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: BENtherdunthat_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for BENtherdunthat_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: BotCity_11 Start: 6822, Stop: 7046, Start Num: 5

Candidate Starts for BotCity_11:

(1, 6585), (2, 6600), (3, 6684), (4, 6780), (Start: 5 @6822 has 19 MA's), (6, 6861), (7, 6879), (8, 6936), (9, 6942), (10, 6969), (11, 7032),

Gene: Budski_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for Budski_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: CheeseTouch_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for CheeseTouch_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Frickyeah_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Frickyeah_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: Getalong_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Getalong_11:

(1, 6587), (2, 6602), (3, 6686), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: Holliday_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for Holliday_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Horus_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Horus_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: Kamaru_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for Kamaru_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Kenna_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Kenna_11:

(2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971),

Gene: Leroy_11 Start: 6825, Stop: 7049, Start Num: 5

Candidate Starts for Leroy_11:

(1, 6588), (2, 6603), (3, 6687), (4, 6783), (Start: 5 @6825 has 19 MA's), (6, 6864), (7, 6882), (8, 6939), (9, 6945), (10, 6972), (11, 7035),

Gene: LitninMcQueen_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for LitninMcQueen_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Lutum_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Lutum_11:

(2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971),

Gene: Malisha_11 Start: 7874, Stop: 8098, Start Num: 5

Candidate Starts for Malisha_11:

(Start: 5 @7874 has 19 MA's), (7, 7931), (8, 7988), (9, 7994), (10, 8021), (11, 8084),

Gene: Periwinkle_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Periwinkle_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: Phabuloso_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for Phabuloso_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Phistory_11 Start: 6813, Stop: 7037, Start Num: 5

Candidate Starts for Phistory_11:

(2, 6591), (3, 6675), (4, 6771), (Start: 5 @6813 has 19 MA's), (6, 6852), (7, 6870), (8, 6927), (9, 6933), (10, 6960), (11, 7023),

Gene: ShawBrad_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for ShawBrad_11:

(1, 6592), (2, 6607), (3, 6691), (4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Spooky_11 Start: 6822, Stop: 7046, Start Num: 5

Candidate Starts for Spooky_11:

(Start: 5 @6822 has 19 MA's), (7, 6879), (8, 6936), (9, 6942), (11, 7032),

Gene: Squiddly_12 Start: 7509, Stop: 7733, Start Num: 5

Candidate Starts for Squiddly_12:

(2, 7287), (3, 7371), (4, 7467), (Start: 5 @7509 has 19 MA's), (6, 7548), (7, 7566), (8, 7623), (9, 7629), (10, 7656), (11, 7719),

Gene: Whitney_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Whitney_11:

(1, 6587), (2, 6602), (3, 6686), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),