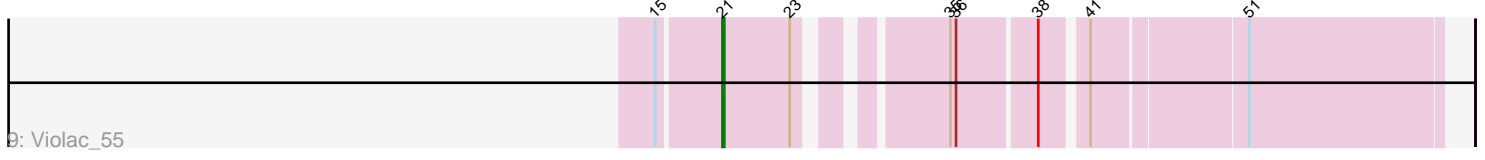
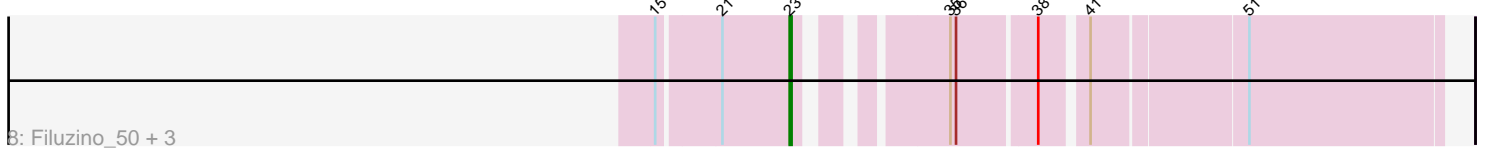
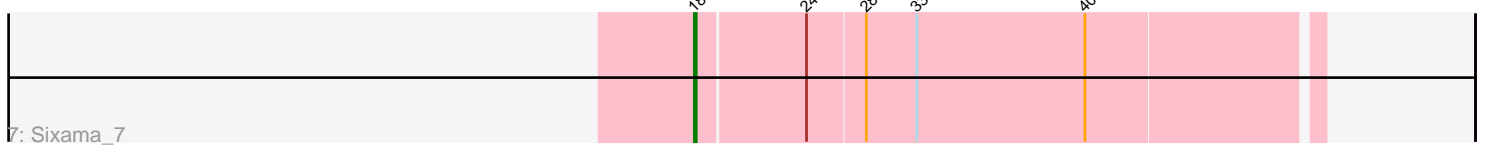
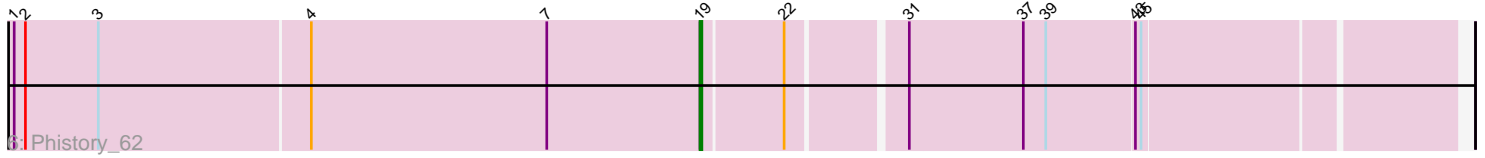
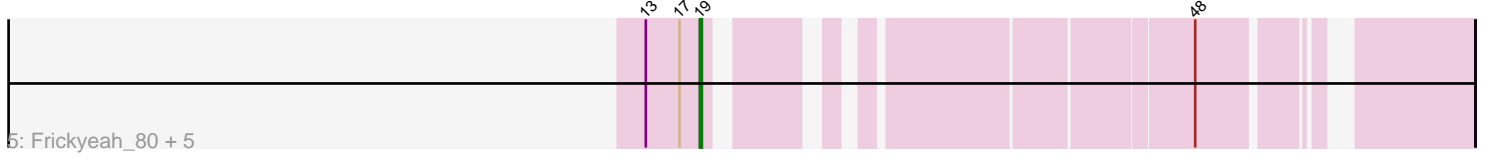
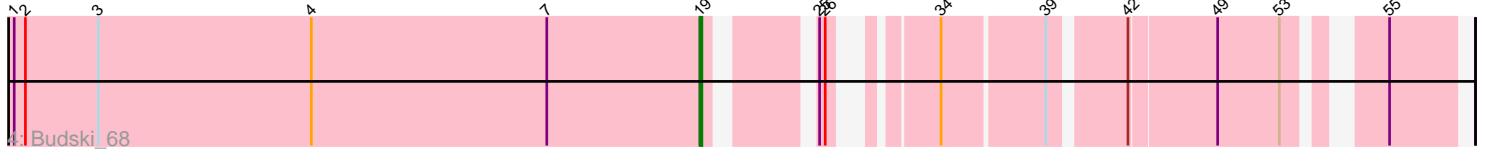
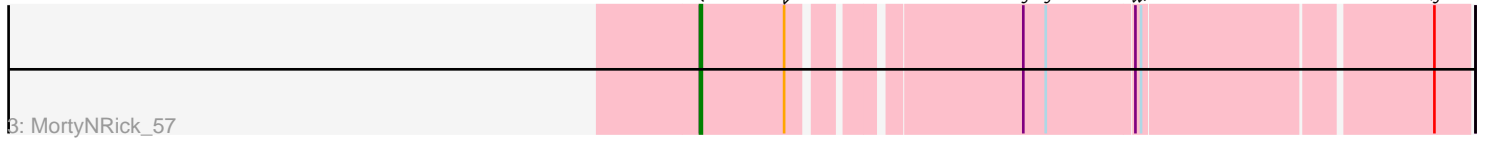
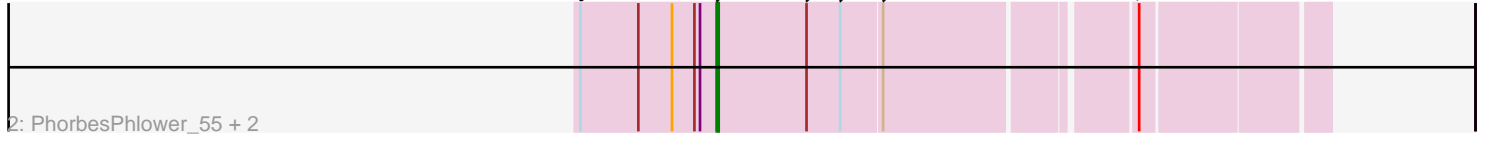
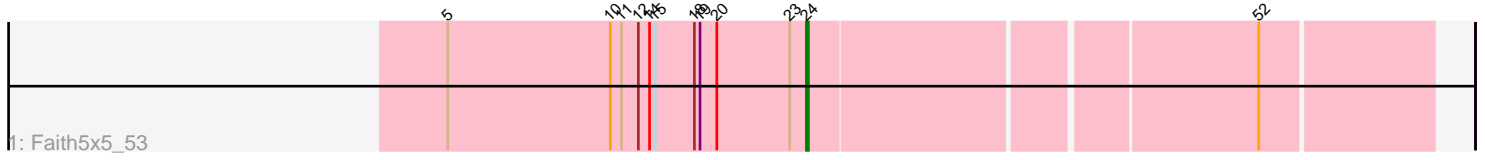


# Pham 296969



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 296969 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296969 has 20 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Faith5x5\_53
- Track 2 : PhorbesPhlower\_55, InLimbo\_56, Morkie\_59
- Track 3 : MortyNRick\_57
- Track 4 : Budski\_68
- Track 5 : Frickyeah\_80, Ecliptus\_80, Birdsong\_73, BotCity\_80, BENtherdunthat\_78, Asapag\_74
- Track 6 : Phistory\_62
- Track 7 : Sixama\_7
- Track 8 : Filuzino\_50, StAnnes\_51, IMpilo\_49, Medindi\_50
- Track 9 : Violac\_55
- Track 10 : Finkle\_75

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

The start number called the most often in the published annotations is 19, it was called in 8 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag\_74, BENtherdunthat\_78, Birdsong\_73, BotCity\_80, Budski\_68, Ecliptus\_80, Frickyeah\_80, MortyNRick\_57, Phistory\_62,

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

- Faith5x5\_53, InLimbo\_56, Morkie\_59, PhorbesPhlower\_55,

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

- Filuzino\_50, Finkle\_75, IMpilo\_49, Medindi\_50, Sixama\_7, StAnnes\_51, Violac\_55,

### **Summary by start number:**

Start 8:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finkle\_75 (singleton),

Start 18:

- Found in 5 of 20 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Sixama\_7 (DS),

Start 19:

- Found in 13 of 20 ( 65.0% ) of genes in pham
- Manual Annotations of this start: 8 of 16
- Called 69.2% of time when present
- Phage (with cluster) where this start called: Asapag\_74 (DN1), BENtherdunthat\_78 (DN1), Birdsong\_73 (DN), BotCity\_80 (DN), Budski\_68 (DN), Ecliptus\_80 (DN), Frickyeah\_80 (DN1), MortyNRick\_57 (DN), Phistory\_62 (DN1),

Start 20:

- Found in 4 of 20 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 75.0% of time when present
- Phage (with cluster) where this start called: InLimbo\_56 (DH), Morkie\_59 (DH), PhorbesPhlower\_55 (DH),

Start 21:

- Found in 5 of 20 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Violac\_55 (F1),

Start 23:

- Found in 6 of 20 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Filuzino\_50 (F1), IMpilo\_49 (F1), Medindi\_50 (F1), StAnnes\_51 (F1),

Start 24:

- Found in 5 of 20 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Faith5x5\_53 (CZ6),

**Summary by clusters:**

There are 7 clusters represented in this pham: DN, F1, singleton, DH, CZ6, DN1, DS,

Info for manual annotations of cluster CZ6:

- Start number 24 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DH:

- Start number 20 was manually annotated 2 times for cluster DH.

Info for manual annotations of cluster DN:

- Start number 19 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 19 was manually annotated 3 times for cluster DN1.

Info for manual annotations of cluster DS:

- Start number 18 was manually annotated 1 time for cluster DS.

Info for manual annotations of cluster F1:

- Start number 21 was manually annotated 1 time for cluster F1.
- Start number 23 was manually annotated 2 times for cluster F1.

### ***Gene Information:***

Gene: Asapag\_74 Start: 43606, Stop: 43938, Start Num: 19

Candidate Starts for Asapag\_74:

(13, 43579), (17, 43597), (Start: 19 @43606 has 8 MA's), (48, 43819),

Gene: BENtherdunthat\_78 Start: 44652, Stop: 44984, Start Num: 19

Candidate Starts for BENtherdunthat\_78:

(13, 44625), (17, 44643), (Start: 19 @44652 has 8 MA's), (48, 44865),

Gene: Birdsong\_73 Start: 43342, Stop: 43674, Start Num: 19

Candidate Starts for Birdsong\_73:

(13, 43315), (17, 43333), (Start: 19 @43342 has 8 MA's), (48, 43555),

Gene: BotCity\_80 Start: 46160, Stop: 46492, Start Num: 19

Candidate Starts for BotCity\_80:

(13, 46133), (17, 46151), (Start: 19 @46160 has 8 MA's), (48, 46373),

Gene: Budski\_68 Start: 41006, Stop: 41320, Start Num: 19

Candidate Starts for Budski\_68:

(1, 40640), (2, 40646), (3, 40685), (4, 40799), (7, 40925), (Start: 19 @41006 has 8 MA's), (25, 41048), (26, 41051), (34, 41087), (39, 41138), (42, 41174), (49, 41216), (53, 41249), (55, 41285),

Gene: Ecliptus\_80 Start: 46255, Stop: 46587, Start Num: 19

Candidate Starts for Ecliptus\_80:

(13, 46228), (17, 46246), (Start: 19 @46255 has 8 MA's), (48, 46468),

Gene: Faith5x5\_53 Start: 34268, Stop: 34585, Start Num: 24

Candidate Starts for Faith5x5\_53:

(5, 34076), (10, 34163), (11, 34169), (12, 34178), (14, 34184), (15, 34187), (Start: 18 @34208 has 1 MA's), (Start: 19 @34211 has 8 MA's), (Start: 20 @34220 has 2 MA's), (Start: 23 @34259 has 2 MA's), (Start: 24 @34268 has 1 MA's), (52, 34496),

Gene: Filuzino\_50 Start: 36021, Stop: 36323, Start Num: 23

Candidate Starts for Filuzino\_50:

(15, 35955), (Start: 21 @35985 has 1 MA's), (Start: 23 @36021 has 2 MA's), (35, 36081), (36, 36084), (38, 36123), (41, 36144), (51, 36222),

Gene: Finkle\_75 Start: 44664, Stop: 45092, Start Num: 8

Candidate Starts for Finkle\_75:

(6, 44625), (Start: 8 @44664 has 1 MA's), (30, 44805), (32, 44811), (46, 44952), (47, 44955), (50, 44973), (54, 45057),

Gene: Frickyeah\_80 Start: 44783, Stop: 45115, Start Num: 19

Candidate Starts for Frickyeah\_80:

(13, 44756), (17, 44774), (Start: 19 @44783 has 8 MA's), (48, 44996),

Gene: IMPilo\_49 Start: 35464, Stop: 35766, Start Num: 23

Candidate Starts for IMPilo\_49:

(15, 35398), (Start: 21 @35428 has 1 MA's), (Start: 23 @35464 has 2 MA's), (35, 35524), (36, 35527), (38, 35566), (41, 35587), (51, 35665),

Gene: InLimbo\_56 Start: 35600, Stop: 35902, Start Num: 20

Candidate Starts for InLimbo\_56:

(9, 35528), (12, 35558), (16, 35576), (Start: 18 @35588 has 1 MA's), (Start: 19 @35591 has 8 MA's), (Start: 20 @35600 has 2 MA's), (Start: 24 @35648 has 1 MA's), (27, 35666), (29, 35687), (44, 35810),

Gene: Medindi\_50 Start: 35302, Stop: 35604, Start Num: 23

Candidate Starts for Medindi\_50:

(15, 35236), (Start: 21 @35266 has 1 MA's), (Start: 23 @35302 has 2 MA's), (35, 35362), (36, 35365), (38, 35404), (41, 35425), (51, 35503),

Gene: Morkie\_59 Start: 36074, Stop: 36376, Start Num: 20

Candidate Starts for Morkie\_59:

(9, 36002), (12, 36032), (16, 36050), (Start: 18 @36062 has 1 MA's), (Start: 19 @36065 has 8 MA's), (Start: 20 @36074 has 2 MA's), (Start: 24 @36122 has 1 MA's), (27, 36140), (29, 36161), (44, 36284),

Gene: MortyNRick\_57 Start: 40191, Stop: 40568, Start Num: 19

Candidate Starts for MortyNRick\_57:

(Start: 19 @40191 has 8 MA's), (22, 40236), (37, 40344), (39, 40356), (43, 40401), (45, 40404), (56, 40551),

Gene: Phistory\_62 Start: 38511, Stop: 38888, Start Num: 19

Candidate Starts for Phistory\_62:

(1, 38148), (2, 38154), (3, 38193), (4, 38304), (7, 38430), (Start: 19 @38511 has 8 MA's), (22, 38553), (31, 38610), (37, 38670), (39, 38682), (43, 38727), (45, 38730),

Gene: PhorbesPhlower\_55 Start: 35141, Stop: 35443, Start Num: 20

Candidate Starts for PhorbesPhlower\_55:

(9, 35069), (12, 35099), (16, 35117), (Start: 18 @35129 has 1 MA's), (Start: 19 @35132 has 8 MA's), (Start: 20 @35141 has 2 MA's), (Start: 24 @35189 has 1 MA's), (27, 35207), (29, 35228), (44, 35351),

Gene: Sixama\_7 Start: 2706, Stop: 2383, Start Num: 18

Candidate Starts for Sixama\_7:

(Start: 18 @2706 has 1 MA's), (Start: 24 @2649 has 1 MA's), (28, 2619), (33, 2592), (40, 2502),

Gene: StAnnes\_51 Start: 37319, Stop: 37621, Start Num: 23

Candidate Starts for StAnnes\_51:

(15, 37253), (Start: 21 @37283 has 1 MA's), (Start: 23 @37319 has 2 MA's), (35, 37379), (36, 37382), (38, 37421), (41, 37442), (51, 37520),

Gene: Violac\_55 Start: 38665, Stop: 39003, Start Num: 21

Candidate Starts for Violac\_55:

(15, 38635), (Start: 21 @38665 has 1 MA's), (Start: 23 @38701 has 2 MA's), (35, 38761), (36, 38764),  
(38, 38803), (41, 38824), (51, 38902),