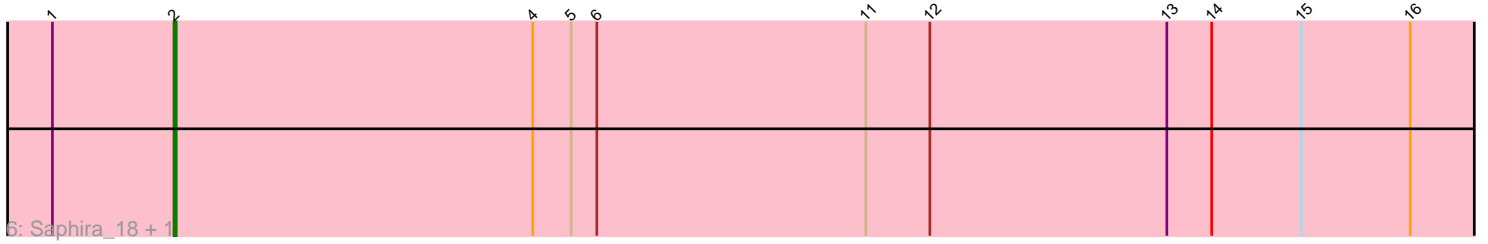
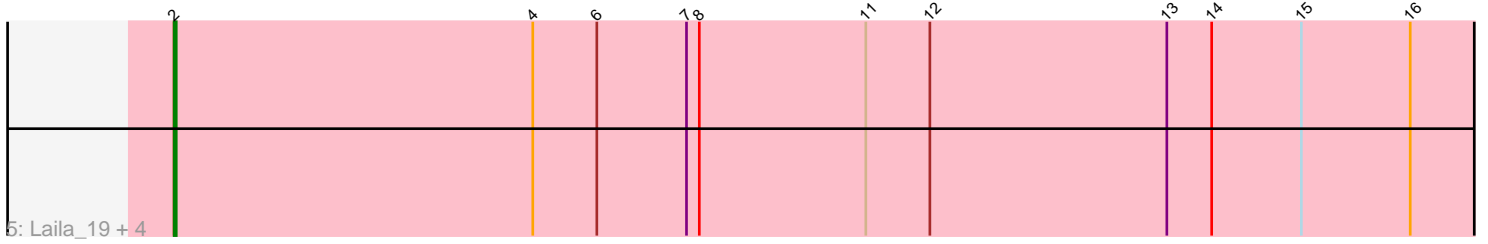
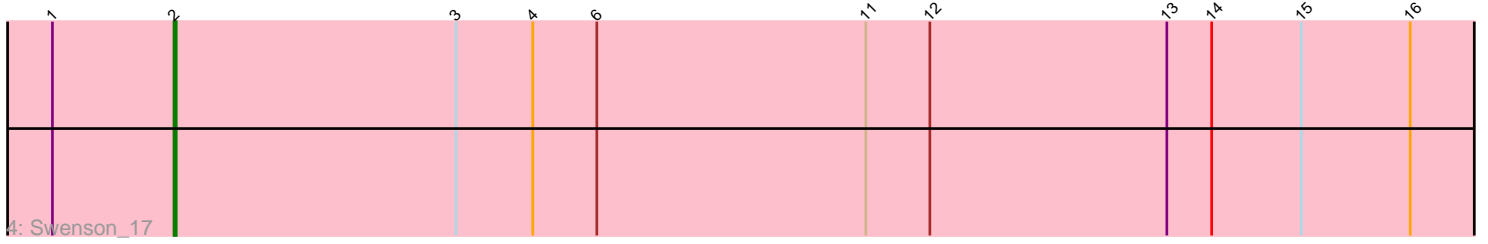
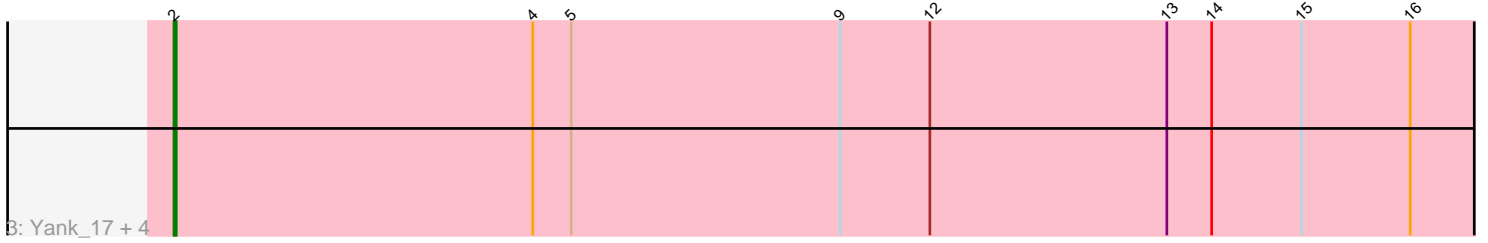
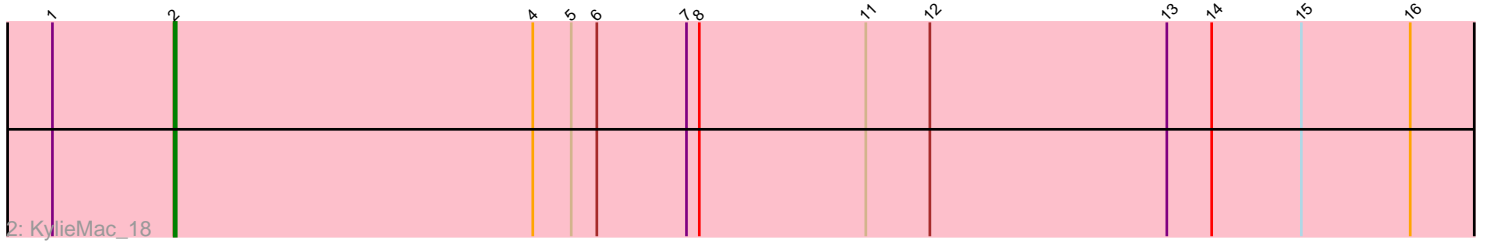
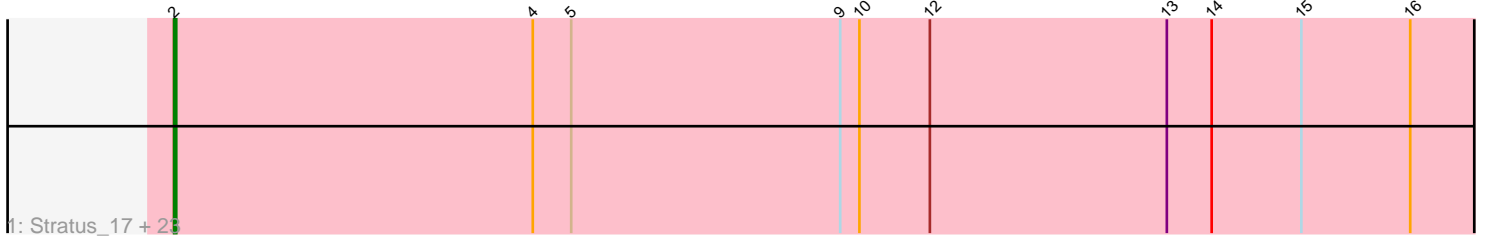


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 188287 Report

This analysis was run 11/02/24 on database version 579.

Pham number 188287 has 38 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Stratus\_17, Copper\_17, TinoCrisci\_17, CGermain\_17, TymAbreu\_17, Jessica\_18, Massimo\_17, Maggie\_17, Mariposa\_17, Guntur\_17, Hunnie\_17, Seume\_17, Chestnut\_17, Toulouse\_16, Sandman\_17, Dewayne\_17, Ronnie\_17, Prospero\_17, Inspire2\_17, LouisXIV\_17, Courtney3\_17, Arby\_17, Moloch\_17, Azathoth\_17
- Track 2 : KylieMac\_18
- Track 3 : Yank\_17, Decurro\_17, Sourignavong\_18, Link\_17, Muttie\_17
- Track 4 : Swenson\_17
- Track 5 : Laila\_19, StewieGriff\_17, Blair\_17, Elkhorn\_17, Lore\_17
- Track 6 : Saphira\_18, Taj14\_17

### ***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 38 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arby\_17, Azathoth\_17, Blair\_17, CGermain\_17, Chestnut\_17, Copper\_17, Courtney3\_17, Decurro\_17, Dewayne\_17, Elkhorn\_17, Guntur\_17, Hunnie\_17, Inspire2\_17, Jessica\_18, KylieMac\_18, Laila\_19, Link\_17, Lore\_17, LouisXIV\_17, Maggie\_17, Mariposa\_17, Massimo\_17, Moloch\_17, Muttie\_17, Prospero\_17, Ronnie\_17, Sandman\_17, Saphira\_18, Seume\_17, Sourignavong\_18, StewieGriff\_17, Stratus\_17, Swenson\_17, Taj14\_17, TinoCrisci\_17, Toulouse\_16, TymAbreu\_17, Yank\_17,

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 2:

- Found in 38 of 38 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 38 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arby\_17 (AN), Azathoth\_17 (AN), Blair\_17 (AN), CGermain\_17 (AN), Chestnut\_17 (AN), Copper\_17 (AN), Courtney3\_17 (AN), Decurro\_17 (AN), Dewayne\_17 (AN), Elkhorn\_17 (AN), Guntur\_17 (AN), Hunnie\_17 (AN), Inspire2\_17 (AN), Jessica\_18 (AN), KylieMac\_18 (AN), Laila\_19 (AN), Link\_17 (AN), Lore\_17 (AN), LouisXIV\_17 (AN), Maggie\_17 (AN), Mariposa\_17 (AN), Massimo\_17 (AN), Moloch\_17 (AN), Muttie\_17 (AN), Prospero\_17 (AN), Ronnie\_17 (AN), Sandman\_17 (AN), Saphira\_18 (AN), Seume\_17 (AN), Sourignavong\_18 (AN), StewieGriff\_17 (AN), Stratus\_17 (AN), Swenson\_17 (AN), Taj14\_17 (AN), TinoCrisci\_17 (AN), Toulouse\_16 (AN), TymAbreu\_17 (AN), Yank\_17 (AN),

### Summary by clusters:

There is one cluster represented in this pham: AN

Info for manual annotations of cluster AN:

- Start number 2 was manually annotated 38 times for cluster AN.

### Gene Information:

Gene: Arby\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Arby\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Azathoth\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Azathoth\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Blair\_17 Start: 12053, Stop: 12694, Start Num: 2

Candidate Starts for Blair\_17:

(Start: 2 @12053 has 38 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (16, 12632),

Gene: CGermain\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for CGermain\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Chestnut\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Chestnut\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Copper\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Copper\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Courtney3\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Courtney3\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Decurro\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Decurro\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Dewayne\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Dewayne\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Elkhorn\_17 Start: 12053, Stop: 12694, Start Num: 2

Candidate Starts for Elkhorn\_17:

(Start: 2 @12053 has 38 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (16, 12632),

Gene: Guntur\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Guntur\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Hunnie\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Hunnie\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Inspire2\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Inspire2\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Jessica\_18 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Jessica\_18:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: KylieMac\_18 Start: 12040, Stop: 12681, Start Num: 2

Candidate Starts for KylieMac\_18:

(1, 11983), (Start: 2 @12040 has 38 MA's), (4, 12208), (5, 12226), (6, 12238), (7, 12280), (8, 12286), (11, 12364), (12, 12394), (13, 12505), (14, 12526), (15, 12568), (16, 12619),

Gene: Laila\_19 Start: 12053, Stop: 12694, Start Num: 2

Candidate Starts for Laila\_19:

(Start: 2 @12053 has 38 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (16, 12632),

Gene: Link\_17 Start: 12047, Stop: 12688, Start Num: 2

Candidate Starts for Link\_17:

(Start: 2 @12047 has 38 MA's), (4, 12215), (5, 12233), (9, 12359), (12, 12401), (13, 12512), (14, 12533), (15, 12575), (16, 12626),

Gene: Lore\_17 Start: 12053, Stop: 12694, Start Num: 2

Candidate Starts for Lore\_17:

(Start: 2 @12053 has 38 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (16, 12632),

Gene: LouisXIV\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for LouisXIV\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Maggie\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Maggie\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Mariposa\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Mariposa\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Massimo\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Massimo\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Moloch\_17 Start: 12124, Stop: 12765, Start Num: 2

Candidate Starts for Moloch\_17:

(Start: 2 @12124 has 38 MA's), (4, 12292), (5, 12310), (9, 12436), (10, 12445), (12, 12478), (13, 12589), (14, 12610), (15, 12652), (16, 12703),

Gene: Muttie\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Muttie\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Prospero\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Prospero\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Ronnie\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Ronnie\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Sandman\_17 Start: 12124, Stop: 12765, Start Num: 2

Candidate Starts for Sandman\_17:

(Start: 2 @12124 has 38 MA's), (4, 12292), (5, 12310), (9, 12436), (10, 12445), (12, 12478), (13, 12589), (14, 12610), (15, 12652), (16, 12703),

Gene: Saphira\_18 Start: 12055, Stop: 12699, Start Num: 2

Candidate Starts for Saphira\_18:

(1, 11998), (Start: 2 @12055 has 38 MA's), (4, 12223), (5, 12241), (6, 12253), (11, 12379), (12, 12409), (13, 12520), (14, 12541), (15, 12583), (16, 12634),

Gene: Seume\_17 Start: 11845, Stop: 12486, Start Num: 2

Candidate Starts for Seume\_17:

(Start: 2 @11845 has 38 MA's), (4, 12013), (5, 12031), (9, 12157), (10, 12166), (12, 12199), (13, 12310), (14, 12331), (15, 12373), (16, 12424),

Gene: Sourignavong\_18 Start: 12151, Stop: 12792, Start Num: 2

Candidate Starts for Sourignavong\_18:

(Start: 2 @12151 has 38 MA's), (4, 12319), (5, 12337), (9, 12463), (12, 12505), (13, 12616), (14, 12637), (15, 12679), (16, 12730),

Gene: StewieGriff\_17 Start: 12053, Stop: 12694, Start Num: 2

Candidate Starts for StewieGriff\_17:

(Start: 2 @12053 has 38 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (16, 12632),

Gene: Stratus\_17 Start: 12124, Stop: 12765, Start Num: 2

Candidate Starts for Stratus\_17:

(Start: 2 @12124 has 38 MA's), (4, 12292), (5, 12310), (9, 12436), (10, 12445), (12, 12478), (13, 12589), (14, 12610), (15, 12652), (16, 12703),

Gene: Swenson\_17 Start: 12177, Stop: 12821, Start Num: 2

Candidate Starts for Swenson\_17:

(1, 12120), (Start: 2 @12177 has 38 MA's), (3, 12309), (4, 12345), (6, 12375), (11, 12501), (12, 12531), (13, 12642), (14, 12663), (15, 12705), (16, 12756),

Gene: Taj14\_17 Start: 12052, Stop: 12696, Start Num: 2

Candidate Starts for Taj14\_17:

(1, 11995), (Start: 2 @12052 has 38 MA's), (4, 12220), (5, 12238), (6, 12250), (11, 12376), (12, 12406), (13, 12517), (14, 12538), (15, 12580), (16, 12631),

Gene: TinoCrisci\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for TinoCrisci\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Toulouse\_16 Start: 11845, Stop: 12486, Start Num: 2

Candidate Starts for Toulouse\_16:

(Start: 2 @11845 has 38 MA's), (4, 12013), (5, 12031), (9, 12157), (10, 12166), (12, 12199), (13, 12310), (14, 12331), (15, 12373), (16, 12424),

Gene: TymAbreu\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for TymAbreu\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),

Gene: Yank\_17 Start: 12050, Stop: 12691, Start Num: 2

Candidate Starts for Yank\_17:

(Start: 2 @12050 has 38 MA's), (4, 12218), (5, 12236), (9, 12362), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (16, 12629),