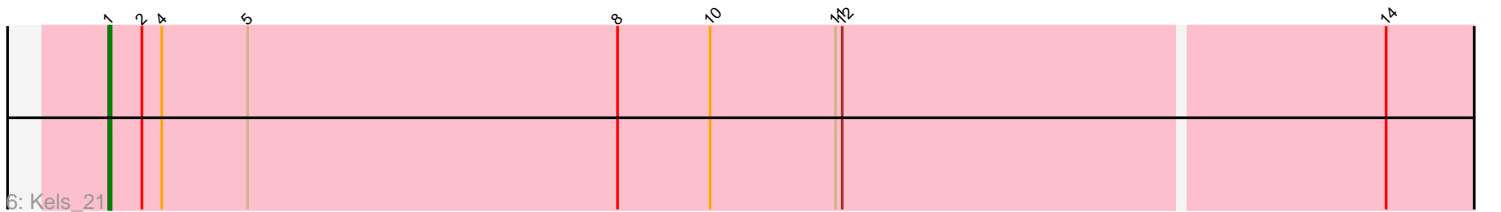
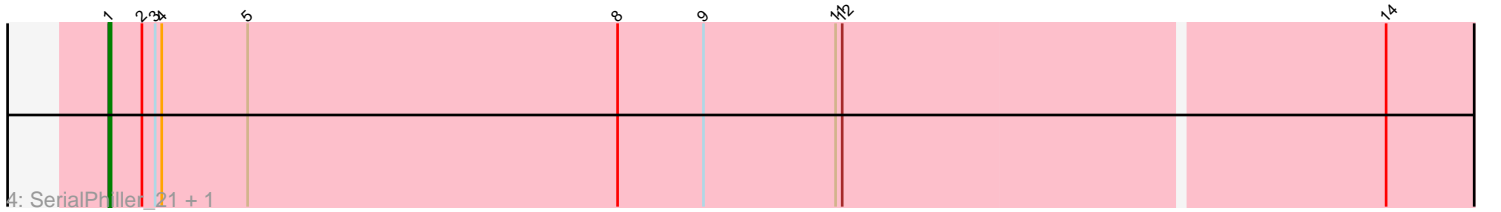
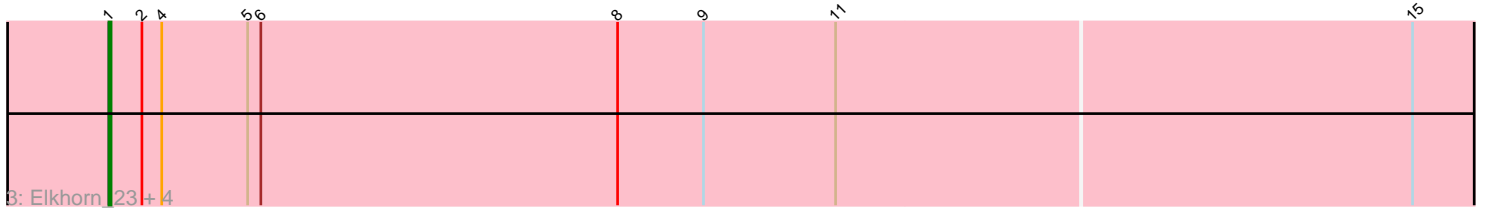
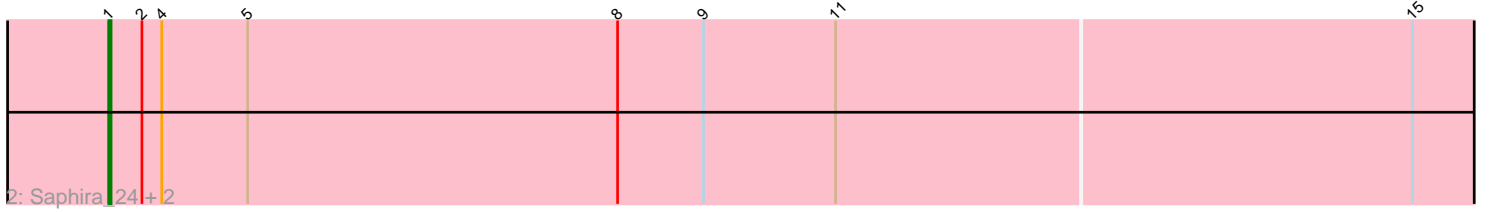
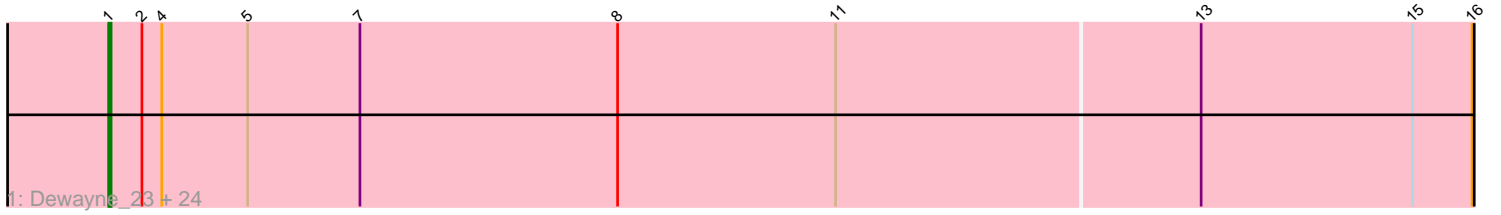


# Zoomed Pham 192716



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 192716 Report

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

Pham number 192716 has 40 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Dewayne\_23, Sandman\_23, Sourignavong\_24, Ronnie\_23, LouisXIV\_23, Inspire2\_23, Moloch\_23, CGermain\_23, Azathoth\_23, Courtney3\_23, Muttlie\_23, Hunnie\_23, Arby\_23, TinoCrisci\_23, Prospero\_23, Stratus\_23, TymAbreu\_23, Massimo\_23, Jessica\_24, Mariposa\_23, Guntur\_23, Maggie\_23, Copper\_23, Chestnut\_23, Link\_23
- Track 2 : Saphira\_24, Taj14\_23, Swenson\_23
- Track 3 : Elkhorn\_23, StewieGriff\_23, Lore\_23, Blair\_23, KylieMac\_24
- Track 4 : SerialPhiller\_21, Arielagos\_21
- Track 5 : Decurro\_23, Yank\_23
- Track 6 : Kels\_21
- Track 7 : Seume\_23, Toulouse\_22

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

The start number called the most often in the published annotations is 1, it was called in 40 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arby\_23, Arielagos\_21, Azathoth\_23, Blair\_23, CGermain\_23, Chestnut\_23, Copper\_23, Courtney3\_23, Decurro\_23, Dewayne\_23, Elkhorn\_23, Guntur\_23, Hunnie\_23, Inspire2\_23, Jessica\_24, Kels\_21, KylieMac\_24, Link\_23, Lore\_23, LouisXIV\_23, Maggie\_23, Mariposa\_23, Massimo\_23, Moloch\_23, Muttlie\_23, Prospero\_23, Ronnie\_23, Sandman\_23, Saphira\_24, SerialPhiller\_21, Seume\_23, Sourignavong\_24, StewieGriff\_23, Stratus\_23, Swenson\_23, Taj14\_23, TinoCrisci\_23, Toulouse\_22, TymAbreu\_23, Yank\_23,

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 1:

- Found in 40 of 40 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 40 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arby\_23 (AN), Arielagos\_21 (AN), Azathoth\_23 (AN), Blair\_23 (AN), CGermain\_23 (AN), Chestnut\_23 (AN), Copper\_23 (AN), Courtney3\_23 (AN), Decurro\_23 (AN), Dewayne\_23 (AN), Elkhorn\_23 (AN), Guntur\_23 (AN), Hunnie\_23 (AN), Inspire2\_23 (AN), Jessica\_24 (AN), Kels\_21 (AN), KylieMac\_24 (AN), Link\_23 (AN), Lore\_23 (AN), LouisXIV\_23 (AN), Maggie\_23 (AN), Mariposa\_23 (AN), Massimo\_23 (AN), Moloch\_23 (AN), Muttie\_23 (AN), Prospero\_23 (AN), Ronnie\_23 (AN), Sandman\_23 (AN), Saphira\_24 (AN), SerialPhiller\_21 (AN), Seume\_23 (AN), Sourignavong\_24 (AN), StewieGriff\_23 (AN), Stratus\_23 (AN), Swenson\_23 (AN), Taj14\_23 (AN), TinoCrisci\_23 (AN), Toulouse\_22 (AN), TymAbreu\_23 (AN), Yank\_23 (AN),

#### Summary by clusters:

There is one cluster represented in this pham: AN

Info for manual annotations of cluster AN:

- Start number 1 was manually annotated 40 times for cluster AN.

#### **Gene Information:**

Gene: Arby\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Arby\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Arielagos\_21 Start: 13877, Stop: 14653, Start Num: 1

Candidate Starts for Arielagos\_21:

(Start: 1 @13877 has 40 MA's), (2, 13892), (3, 13898), (4, 13901), (5, 13940), (8, 14108), (9, 14147), (11, 14207), (12, 14210), (14, 14450), (17, 14639),

Gene: Azathoth\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Azathoth\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Blair\_23 Start: 14113, Stop: 14781, Start Num: 1

Candidate Starts for Blair\_23:

(Start: 1 @14113 has 40 MA's), (2, 14128), (4, 14137), (5, 14176), (6, 14182), (8, 14344), (9, 14383), (11, 14443), (15, 14701),

Gene: CGermain\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for CGermain\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Chestnut\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Chestnut\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Copper\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Copper\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Courtney3\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Courtney3\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Decurro\_23 Start: 14084, Stop: 14752, Start Num: 1

Candidate Starts for Decurro\_23:

(Start: 1 @14084 has 40 MA's), (2, 14099), (4, 14108), (7, 14198), (8, 14315), (11, 14414), (13, 14576), (15, 14672), (16, 14699),

Gene: Dewayne\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Dewayne\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Elkhorn\_23 Start: 14113, Stop: 14781, Start Num: 1

Candidate Starts for Elkhorn\_23:

(Start: 1 @14113 has 40 MA's), (2, 14128), (4, 14137), (5, 14176), (6, 14182), (8, 14344), (9, 14383), (11, 14443), (15, 14701),

Gene: Guntur\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Guntur\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Hunnie\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Hunnie\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Inspire2\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Inspire2\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Jessica\_24 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Jessica\_24:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Kels\_21 Start: 13437, Stop: 14213, Start Num: 1

Candidate Starts for Kels\_21:

(Start: 1 @13437 has 40 MA's), (2, 13452), (4, 13461), (5, 13500), (8, 13668), (10, 13710), (11, 13767), (12, 13770), (14, 14010), (17, 14199),

Gene: KylieMac\_24 Start: 14100, Stop: 14768, Start Num: 1

Candidate Starts for KylieMac\_24:

(Start: 1 @14100 has 40 MA's), (2, 14115), (4, 14124), (5, 14163), (6, 14169), (8, 14331), (9, 14370), (11, 14430), (15, 14688),

Gene: Link\_23 Start: 14081, Stop: 14749, Start Num: 1

Candidate Starts for Link\_23:

(Start: 1 @14081 has 40 MA's), (2, 14096), (4, 14105), (5, 14144), (7, 14195), (8, 14312), (11, 14411), (13, 14573), (15, 14669), (16, 14696),

Gene: Lore\_23 Start: 14113, Stop: 14781, Start Num: 1

Candidate Starts for Lore\_23:

(Start: 1 @14113 has 40 MA's), (2, 14128), (4, 14137), (5, 14176), (6, 14182), (8, 14344), (9, 14383), (11, 14443), (15, 14701),

Gene: LouisXIV\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for LouisXIV\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Maggie\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Maggie\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Mariposa\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Mariposa\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Massimo\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Massimo\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Moloch\_23 Start: 14190, Stop: 14858, Start Num: 1

Candidate Starts for Moloch\_23:

(Start: 1 @14190 has 40 MA's), (2, 14205), (4, 14214), (5, 14253), (7, 14304), (8, 14421), (11, 14520), (13, 14682), (15, 14778), (16, 14805),

Gene: Muttie\_23 Start: 14084, Stop: 14752, Start Num: 1

Candidate Starts for Muttie\_23:

(Start: 1 @14084 has 40 MA's), (2, 14099), (4, 14108), (5, 14147), (7, 14198), (8, 14315), (11, 14414), (13, 14576), (15, 14672), (16, 14699),

Gene: Prospero\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Prospero\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Ronnie\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for Ronnie\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Sandman\_23 Start: 14190, Stop: 14858, Start Num: 1

Candidate Starts for Sandman\_23:

(Start: 1 @14190 has 40 MA's), (2, 14205), (4, 14214), (5, 14253), (7, 14304), (8, 14421), (11, 14520), (13, 14682), (15, 14778), (16, 14805),

Gene: Saphira\_24 Start: 14115, Stop: 14783, Start Num: 1

Candidate Starts for Saphira\_24:

(Start: 1 @14115 has 40 MA's), (2, 14130), (4, 14139), (5, 14178), (8, 14346), (9, 14385), (11, 14445), (15, 14703),

Gene: SerialPhiller\_21 Start: 13877, Stop: 14653, Start Num: 1

Candidate Starts for SerialPhiller\_21:

(Start: 1 @13877 has 40 MA's), (2, 13892), (3, 13898), (4, 13901), (5, 13940), (8, 14108), (9, 14147), (11, 14207), (12, 14210), (14, 14450), (17, 14639),

Gene: Seume\_23 Start: 13879, Stop: 14547, Start Num: 1

Candidate Starts for Seume\_23:

(Start: 1 @13879 has 40 MA's), (2, 13894), (5, 13942), (7, 13993), (8, 14110), (11, 14209), (13, 14371), (15, 14467), (16, 14494),

Gene: Sourignavong\_24 Start: 14185, Stop: 14853, Start Num: 1

Candidate Starts for Sourignavong\_24:

(Start: 1 @14185 has 40 MA's), (2, 14200), (4, 14209), (5, 14248), (7, 14299), (8, 14416), (11, 14515), (13, 14677), (15, 14773), (16, 14800),

Gene: StewieGriff\_23 Start: 14113, Stop: 14781, Start Num: 1

Candidate Starts for StewieGriff\_23:

(Start: 1 @14113 has 40 MA's), (2, 14128), (4, 14137), (5, 14176), (6, 14182), (8, 14344), (9, 14383), (11, 14443), (15, 14701),

Gene: Stratus\_23 Start: 14190, Stop: 14858, Start Num: 1

Candidate Starts for Stratus\_23:

(Start: 1 @14190 has 40 MA's), (2, 14205), (4, 14214), (5, 14253), (7, 14304), (8, 14421), (11, 14520), (13, 14682), (15, 14778), (16, 14805),

Gene: Swenson\_23 Start: 14237, Stop: 14905, Start Num: 1

Candidate Starts for Swenson\_23:

(Start: 1 @14237 has 40 MA's), (2, 14252), (4, 14261), (5, 14300), (8, 14468), (9, 14507), (11, 14567), (15, 14825),

Gene: Taj14\_23 Start: 14112, Stop: 14780, Start Num: 1

Candidate Starts for Taj14\_23:

(Start: 1 @14112 has 40 MA's), (2, 14127), (4, 14136), (5, 14175), (8, 14343), (9, 14382), (11, 14442), (15, 14700),

Gene: TinoCrisci\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for TinoCrisci\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Toulouse\_22 Start: 13879, Stop: 14547, Start Num: 1

Candidate Starts for Toulouse\_22:

(Start: 1 @13879 has 40 MA's), (2, 13894), (5, 13942), (7, 13993), (8, 14110), (11, 14209), (13, 14371), (15, 14467), (16, 14494),

Gene: TymAbreu\_23 Start: 14116, Stop: 14784, Start Num: 1

Candidate Starts for TymAbreu\_23:

(Start: 1 @14116 has 40 MA's), (2, 14131), (4, 14140), (5, 14179), (7, 14230), (8, 14347), (11, 14446), (13, 14608), (15, 14704), (16, 14731),

Gene: Yank\_23 Start: 14084, Stop: 14752, Start Num: 1

Candidate Starts for Yank\_23:

(Start: 1 @14084 has 40 MA's), (2, 14099), (4, 14108), (7, 14198), (8, 14315), (11, 14414), (13, 14576), (15, 14672), (16, 14699),