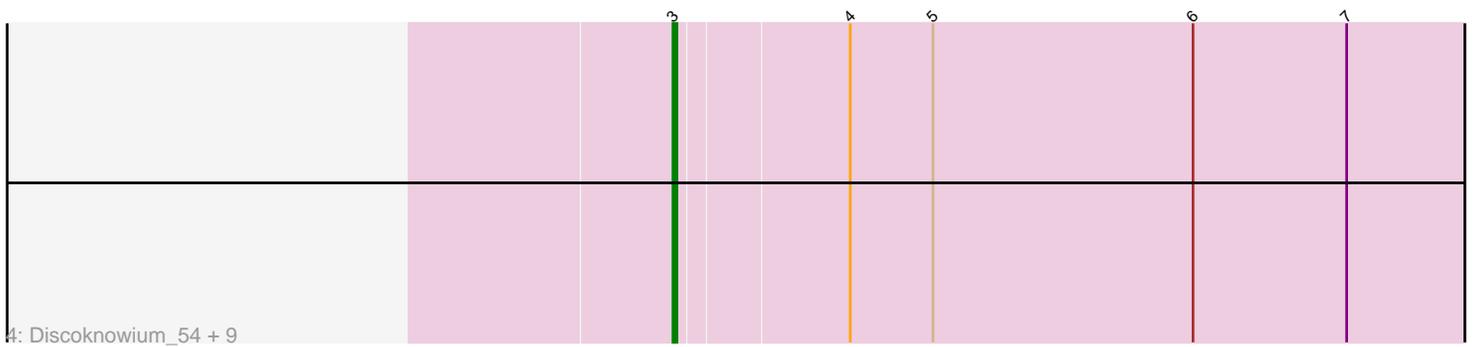
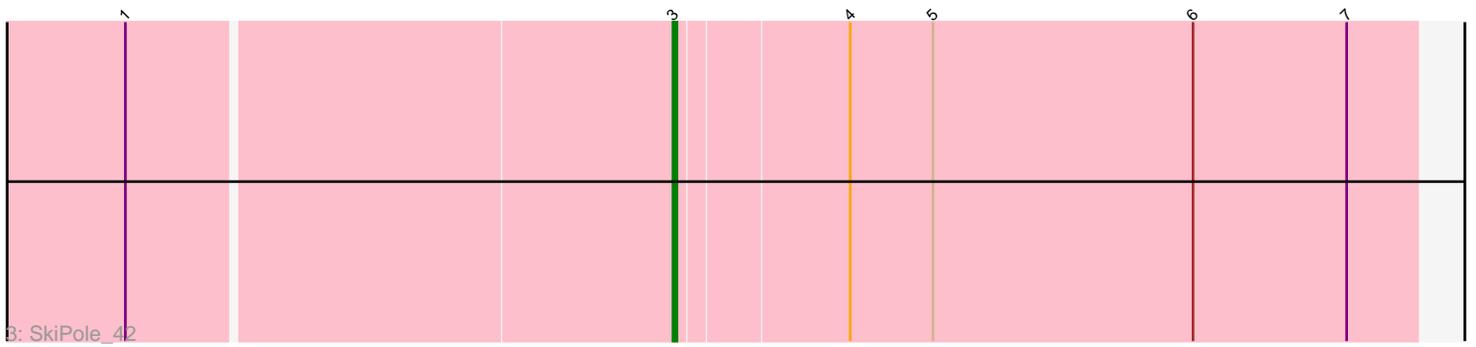
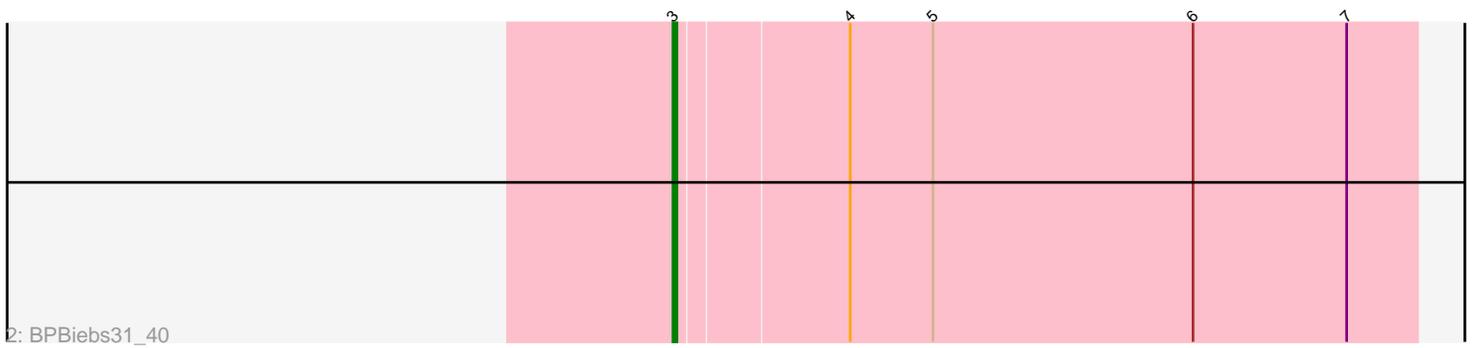
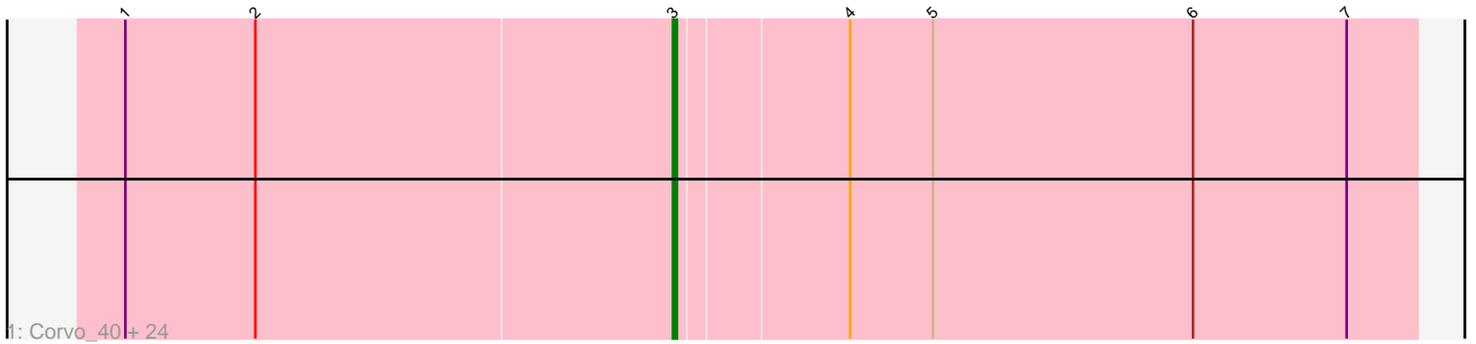


Pham 285732



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 285732 Report

This analysis was run 03/28/26 on database version 641.

Pham number 285732 has 37 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Corvo\_40, BluSpix\_36, ConceptII\_41, LilBib\_39, SwissCheese\_41, EnzoK\_38, McSinger\_40, Marchy\_34, Blackflame\_39, HanShotFirst\_38, Kanely\_40, Forsytheast\_39, Levia\_36, MetalQZJ\_39, Gandalf20\_40, IgnatiusPatJac\_38, ShortQueendom\_34, Moose\_39, Altman\_41, Teodoridan\_37, MaryBeth\_39, Watermelon\_41, STLscum\_40, Mryolo\_37, Payneful\_39
- Track 2 : BPBiebs31\_40
- Track 3 : SkiPole\_42
- Track 4 : Discoknowium\_54, Jovo\_56, Lev2\_56, Conspiracy\_56, ForGetIt\_56, Archetta\_55, Tiger\_55, AgentM\_55, Aragog\_55, Phlorence\_54

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

The start number called the most often in the published annotations is 3, it was called in 34 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM\_55, Altman\_41, Aragog\_55, Archetta\_55, BPBiebs31\_40, Blackflame\_39, BluSpix\_36, ConceptII\_41, Conspiracy\_56, Corvo\_40, Discoknowium\_54, EnzoK\_38, ForGetIt\_56, Forsytheast\_39, Gandalf20\_40, HanShotFirst\_38, IgnatiusPatJac\_38, Jovo\_56, Kanely\_40, Lev2\_56, Levia\_36, LilBib\_39, Marchy\_34, MaryBeth\_39, McSinger\_40, MetalQZJ\_39, Moose\_39, Mryolo\_37, Payneful\_39, Phlorence\_54, STLscum\_40, ShortQueendom\_34, SkiPole\_42, SwissCheese\_41, Teodoridan\_37, Tiger\_55, Watermelon\_41,

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 3:

- Found in 37 of 37 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 34 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM\_55 (A5), Altman\_41 (A1), Aragog\_55 (A5), Archetta\_55 (A5), BPBiebs31\_40 (A1), Blackflame\_39 (A1), BluSpix\_36 (A1), ConceptII\_41 (A1), Conspiracy\_56 (A5), Corvo\_40 (A1), Discoknowium\_54 (A5), EnzoK\_38 (A1), ForGetIt\_56 (A5), Forsytheast\_39 (A1), Gandalf20\_40 (A1), HanShotFirst\_38 (A1), IgnatiusPatJac\_38 (A1), Jovo\_56 (A5), Kanely\_40 (A1), Lev2\_56 (A5), Levia\_36 (A1), LilBib\_39 (A1), Marchy\_34 (A1), MaryBeth\_39 (A1), McSinger\_40 (A1), MetalQZJ\_39 (A1), Moose\_39 (A1), Mryolo\_37 (A1), Payneful\_39 (A1), Phlorence\_54 (A5), STLscum\_40 (A1), ShortQueendom\_34 (A1), SkiPole\_42 (A1), SwissCheese\_41 (A1), Teodoridan\_37 (A1), Tiger\_55 (A5), Watermelon\_41 (A1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: A1, A5,

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 24 times for cluster A1.

Info for manual annotations of cluster A5:

- Start number 3 was manually annotated 10 times for cluster A5.

### **Gene Information:**

Gene: AgentM\_55 Start: 38824, Stop: 38606, Start Num: 3

Candidate Starts for AgentM\_55:

(Start: 3 @38824 has 34 MA's), (4, 38782), (5, 38761), (6, 38695), (7, 38656),

Gene: Altman\_41 Start: 32441, Stop: 32256, Start Num: 3

Candidate Starts for Altman\_41:

(1, 32579), (2, 32546), (Start: 3 @32441 has 34 MA's), (4, 32399), (5, 32378), (6, 32312), (7, 32273),

Gene: Aragog\_55 Start: 38844, Stop: 38626, Start Num: 3

Candidate Starts for Aragog\_55:

(Start: 3 @38844 has 34 MA's), (4, 38802), (5, 38781), (6, 38715), (7, 38676),

Gene: Archetta\_55 Start: 39254, Stop: 39036, Start Num: 3

Candidate Starts for Archetta\_55:

(Start: 3 @39254 has 34 MA's), (4, 39212), (5, 39191), (6, 39125), (7, 39086),

Gene: BPBiebs31\_40 Start: 31925, Stop: 31740, Start Num: 3

Candidate Starts for BPBiebs31\_40:

(Start: 3 @31925 has 34 MA's), (4, 31883), (5, 31862), (6, 31796), (7, 31757),

Gene: Blackflame\_39 Start: 31133, Stop: 30948, Start Num: 3

Candidate Starts for Blackflame\_39:

(1, 31271), (2, 31238), (Start: 3 @31133 has 34 MA's), (4, 31091), (5, 31070), (6, 31004), (7, 30965),

Gene: BluSpix\_36 Start: 27533, Stop: 27348, Start Num: 3

Candidate Starts for BluSpix\_36:

(1, 27671), (2, 27638), (Start: 3 @27533 has 34 MA's), (4, 27491), (5, 27470), (6, 27404), (7, 27365),

Gene: ConceptII\_41 Start: 32595, Stop: 32362, Start Num: 3

Candidate Starts for ConceptII\_41:

(1, 32733), (2, 32700), (Start: 3 @32595 has 34 MA's), (4, 32553), (5, 32532), (6, 32466), (7, 32427),

Gene: Conspiracy\_56 Start: 39066, Stop: 38848, Start Num: 3

Candidate Starts for Conspiracy\_56:

(Start: 3 @39066 has 34 MA's), (4, 39024), (5, 39003), (6, 38937), (7, 38898),

Gene: Corvo\_40 Start: 32455, Stop: 32270, Start Num: 3

Candidate Starts for Corvo\_40:

(1, 32593), (2, 32560), (Start: 3 @32455 has 34 MA's), (4, 32413), (5, 32392), (6, 32326), (7, 32287),

Gene: Discoknowium\_54 Start: 38733, Stop: 38515, Start Num: 3

Candidate Starts for Discoknowium\_54:

(Start: 3 @38733 has 34 MA's), (4, 38691), (5, 38670), (6, 38604), (7, 38565),

Gene: EnzoK\_38 Start: 29630, Stop: 29445, Start Num: 3

Candidate Starts for EnzoK\_38:

(1, 29768), (2, 29735), (Start: 3 @29630 has 34 MA's), (4, 29588), (5, 29567), (6, 29501), (7, 29462),

Gene: ForGetIt\_56 Start: 39091, Stop: 38873, Start Num: 3

Candidate Starts for ForGetIt\_56:

(Start: 3 @39091 has 34 MA's), (4, 39049), (5, 39028), (6, 38962), (7, 38923),

Gene: Forsytheast\_39 Start: 31733, Stop: 31548, Start Num: 3

Candidate Starts for Forsytheast\_39:

(1, 31871), (2, 31838), (Start: 3 @31733 has 34 MA's), (4, 31691), (5, 31670), (6, 31604), (7, 31565),

Gene: Gandalf20\_40 Start: 32430, Stop: 32245, Start Num: 3

Candidate Starts for Gandalf20\_40:

(1, 32568), (2, 32535), (Start: 3 @32430 has 34 MA's), (4, 32388), (5, 32367), (6, 32301), (7, 32262),

Gene: HanShotFirst\_38 Start: 31085, Stop: 30900, Start Num: 3

Candidate Starts for HanShotFirst\_38:

(1, 31223), (2, 31190), (Start: 3 @31085 has 34 MA's), (4, 31043), (5, 31022), (6, 30956), (7, 30917),

Gene: IgnatiusPatJac\_38 Start: 31478, Stop: 31293, Start Num: 3

Candidate Starts for IgnatiusPatJac\_38:

(1, 31616), (2, 31583), (Start: 3 @31478 has 34 MA's), (4, 31436), (5, 31415), (6, 31349), (7, 31310),

Gene: Jovo\_56 Start: 39347, Stop: 39129, Start Num: 3

Candidate Starts for Jovo\_56:

(Start: 3 @39347 has 34 MA's), (4, 39305), (5, 39284), (6, 39218), (7, 39179),

Gene: Kanely\_40 Start: 32217, Stop: 32032, Start Num: 3

Candidate Starts for Kanely\_40:

(1, 32355), (2, 32322), (Start: 3 @32217 has 34 MA's), (4, 32175), (5, 32154), (6, 32088), (7, 32049),

Gene: Lev2\_56 Start: 38979, Stop: 38761, Start Num: 3

Candidate Starts for Lev2\_56:

(Start: 3 @38979 has 34 MA's), (4, 38937), (5, 38916), (6, 38850), (7, 38811),

Gene: Levia\_36 Start: 31376, Stop: 31191, Start Num: 3  
Candidate Starts for Levia\_36:  
(1, 31514), (2, 31481), (Start: 3 @31376 has 34 MA's), (4, 31334), (5, 31313), (6, 31247), (7, 31208),

Gene: LilBib\_39 Start: 32292, Stop: 32104, Start Num: 3  
Candidate Starts for LilBib\_39:  
(1, 32430), (2, 32397), (Start: 3 @32292 has 34 MA's), (4, 32247), (5, 32226), (6, 32160), (7, 32121),

Gene: Marchy\_34 Start: 28457, Stop: 28272, Start Num: 3  
Candidate Starts for Marchy\_34:  
(1, 28595), (2, 28562), (Start: 3 @28457 has 34 MA's), (4, 28415), (5, 28394), (6, 28328), (7, 28289),

Gene: MaryBeth\_39 Start: 31672, Stop: 31487, Start Num: 3  
Candidate Starts for MaryBeth\_39:  
(1, 31810), (2, 31777), (Start: 3 @31672 has 34 MA's), (4, 31630), (5, 31609), (6, 31543), (7, 31504),

Gene: McSinger\_40 Start: 32058, Stop: 31873, Start Num: 3  
Candidate Starts for McSinger\_40:  
(1, 32196), (2, 32163), (Start: 3 @32058 has 34 MA's), (4, 32016), (5, 31995), (6, 31929), (7, 31890),

Gene: MetalQZJ\_39 Start: 31672, Stop: 31487, Start Num: 3  
Candidate Starts for MetalQZJ\_39:  
(1, 31810), (2, 31777), (Start: 3 @31672 has 34 MA's), (4, 31630), (5, 31609), (6, 31543), (7, 31504),

Gene: Moose\_39 Start: 31733, Stop: 31548, Start Num: 3  
Candidate Starts for Moose\_39:  
(1, 31871), (2, 31838), (Start: 3 @31733 has 34 MA's), (4, 31691), (5, 31670), (6, 31604), (7, 31565),

Gene: Mryolo\_37 Start: 31217, Stop: 31032, Start Num: 3  
Candidate Starts for Mryolo\_37:  
(1, 31355), (2, 31322), (Start: 3 @31217 has 34 MA's), (4, 31175), (5, 31154), (6, 31088), (7, 31049),

Gene: Payneful\_39 Start: 31174, Stop: 30989, Start Num: 3  
Candidate Starts for Payneful\_39:  
(1, 31312), (2, 31279), (Start: 3 @31174 has 34 MA's), (4, 31132), (5, 31111), (6, 31045), (7, 31006),

Gene: Phlorence\_54 Start: 38724, Stop: 38506, Start Num: 3  
Candidate Starts for Phlorence\_54:  
(Start: 3 @38724 has 34 MA's), (4, 38682), (5, 38661), (6, 38595), (7, 38556),

Gene: STLscum\_40 Start: 32567, Stop: 32382, Start Num: 3  
Candidate Starts for STLscum\_40:  
(1, 32705), (2, 32672), (Start: 3 @32567 has 34 MA's), (4, 32525), (5, 32504), (6, 32438), (7, 32399),

Gene: ShortQueendom\_34 Start: 28214, Stop: 28029, Start Num: 3  
Candidate Starts for ShortQueendom\_34:  
(1, 28352), (2, 28319), (Start: 3 @28214 has 34 MA's), (4, 28172), (5, 28151), (6, 28085), (7, 28046),

Gene: SkiPole\_42 Start: 32086, Stop: 31901, Start Num: 3  
Candidate Starts for SkiPole\_42:  
(1, 32221), (Start: 3 @32086 has 34 MA's), (4, 32044), (5, 32023), (6, 31957), (7, 31918),

Gene: SwissCheese\_41 Start: 32233, Stop: 32048, Start Num: 3

Candidate Starts for SwissCheese\_41:

(1, 32371), (2, 32338), (Start: 3 @32233 has 34 MA's), (4, 32191), (5, 32170), (6, 32104), (7, 32065),

Gene: Teodoridan\_37 Start: 31023, Stop: 30790, Start Num: 3

Candidate Starts for Teodoridan\_37:

(1, 31161), (2, 31128), (Start: 3 @31023 has 34 MA's), (4, 30981), (5, 30960), (6, 30894), (7, 30855),

Gene: Tiger\_55 Start: 38645, Stop: 38427, Start Num: 3

Candidate Starts for Tiger\_55:

(Start: 3 @38645 has 34 MA's), (4, 38603), (5, 38582), (6, 38516), (7, 38477),

Gene: Watermelon\_41 Start: 32437, Stop: 32249, Start Num: 3

Candidate Starts for Watermelon\_41:

(1, 32575), (2, 32542), (Start: 3 @32437 has 34 MA's), (4, 32392), (5, 32371), (6, 32305), (7, 32266),