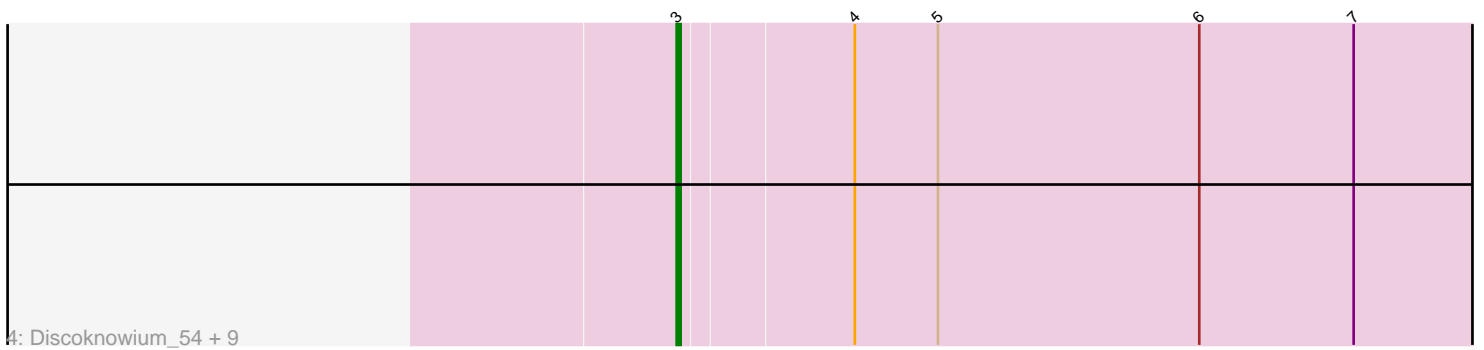
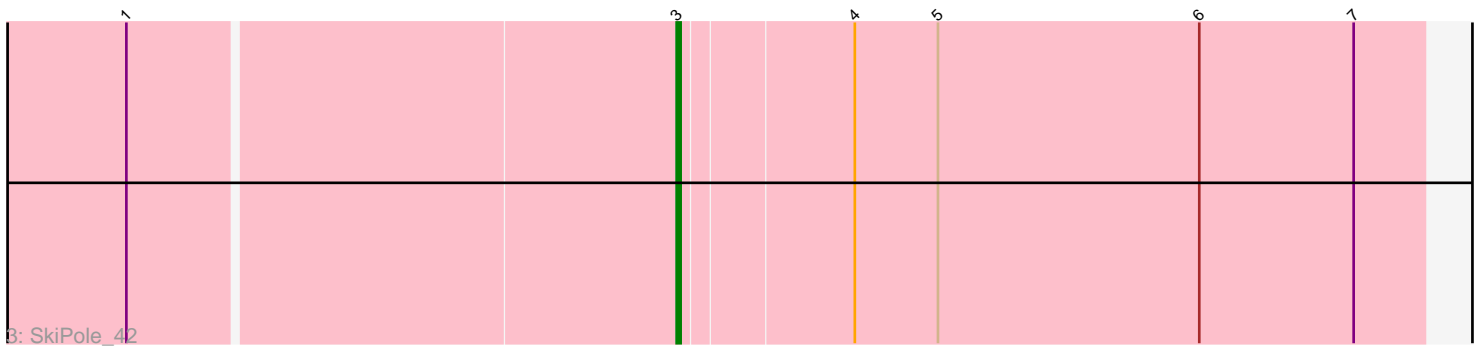
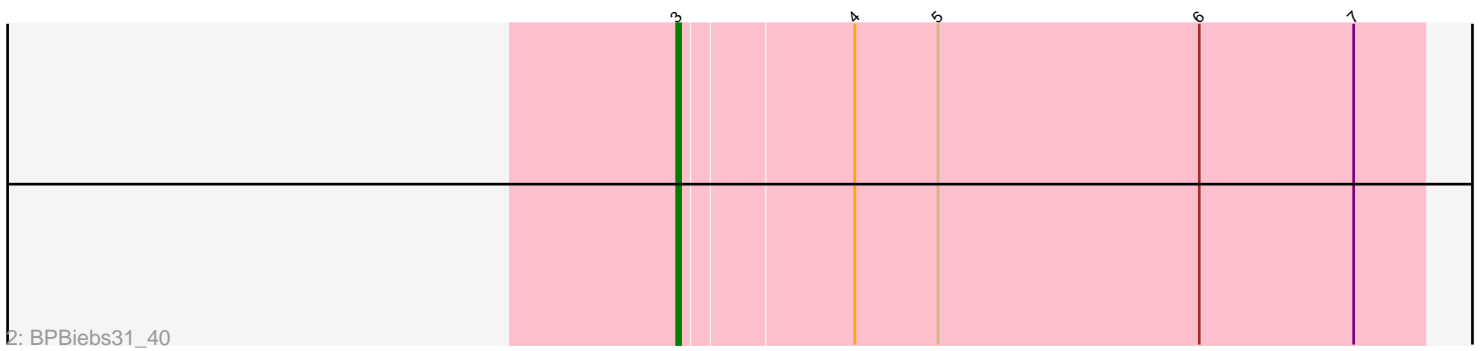
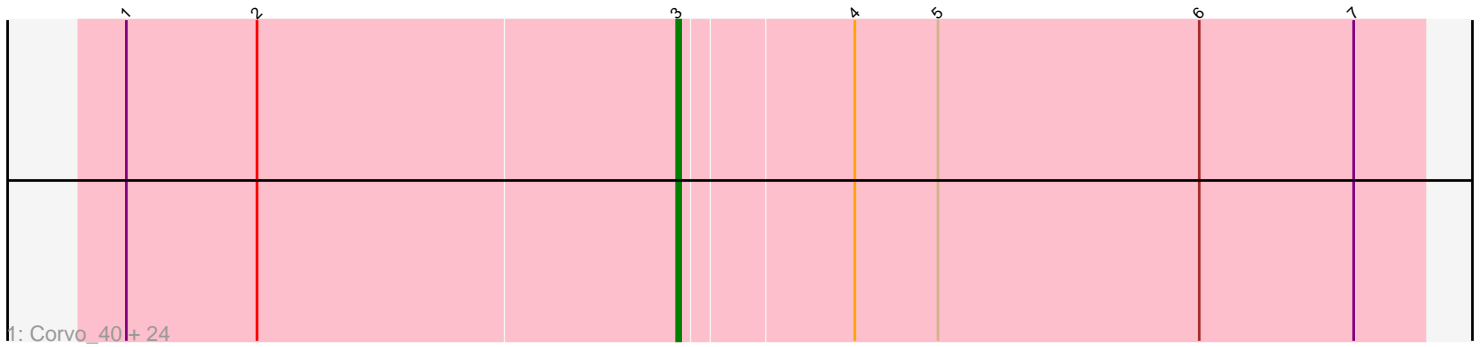


Pham 298618



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 298618 Report

This analysis was run 06/08/26 on database version 649.

Pham number 298618 has 37 members, 2 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_35, 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 35 of the 35 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_35, 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: 35 of 35
- 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_35 (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 25 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 MA's), (4, 32525), (5, 32504), (6, 32438), (7, 32399),

Gene: ShortQueendom_35 Start: 28214, Stop: 28029, Start Num: 3
Candidate Starts for ShortQueendom_35:
(1, 28352), (2, 28319), (Start: 3 @28214 has 35 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 35 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 35 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 35 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 35 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 35 MA's), (4, 32392), (5, 32371), (6, 32305), (7, 32266),