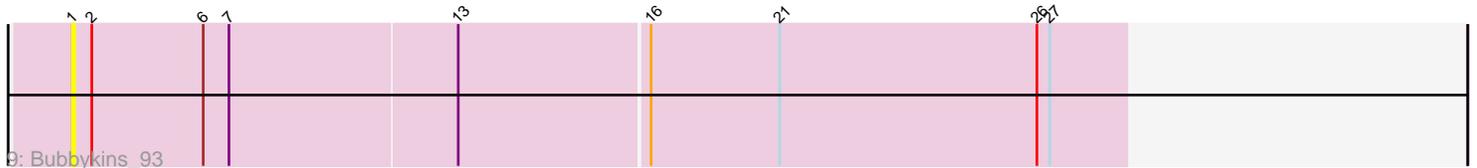
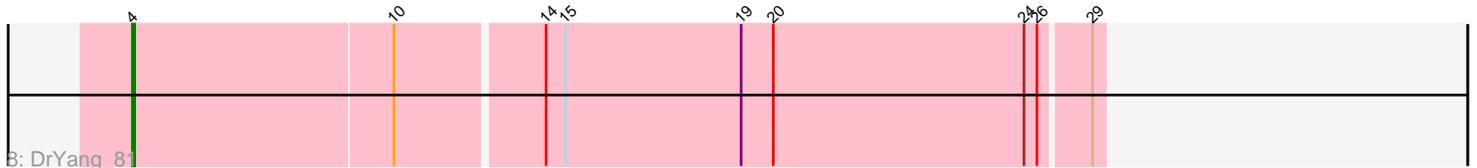
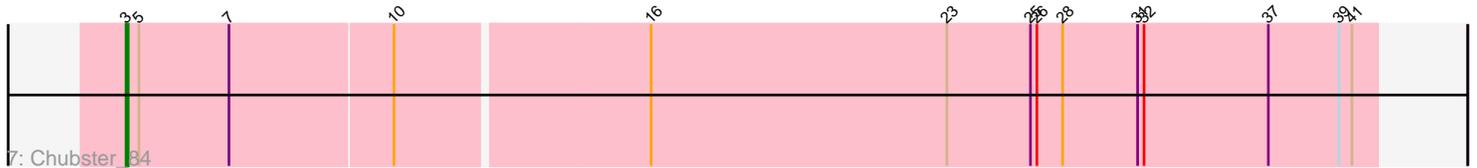
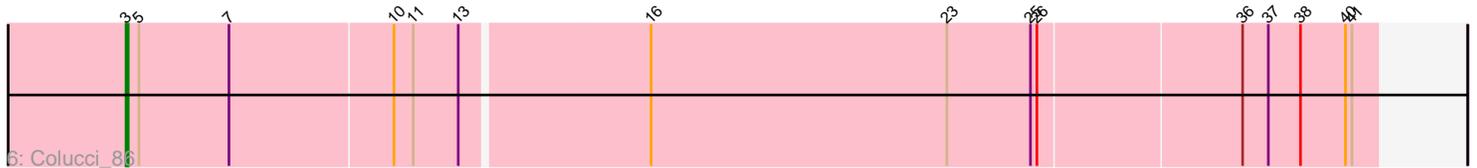
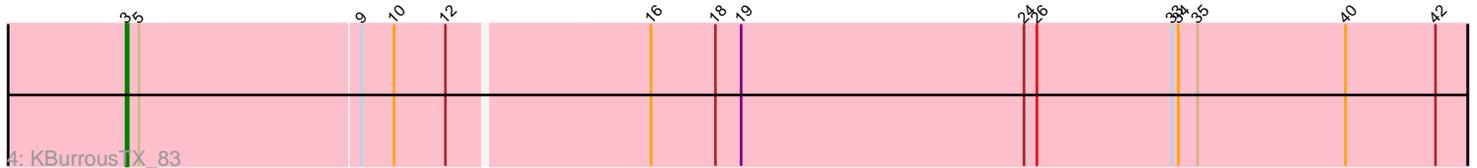
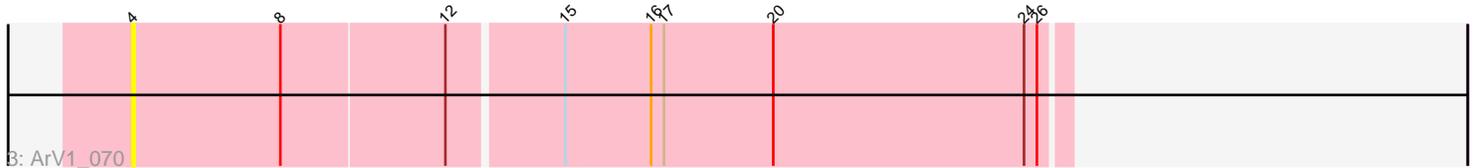
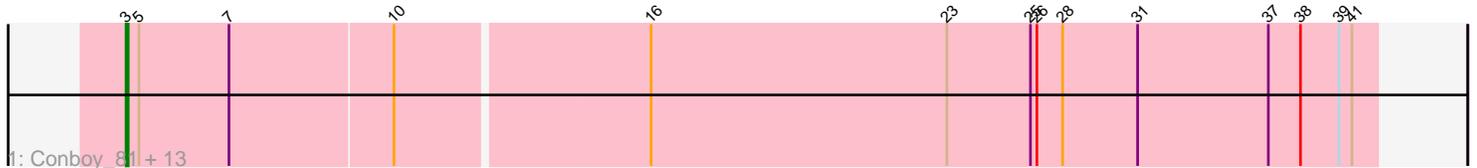


Pham 291528



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 291528 Report

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

Pham number 291528 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Conboy\_81, Kabreeze\_83, Chocolat\_83, MoyaNatalis\_82, Scavito\_84, HumptyDumpty\_83, Chipper1996\_840, Mordred\_83, Linus\_83, JayCookie\_83, Tophat\_84, JaNo\_82, EdgarPoe\_82, RosiePosie\_83
- Track 2 : Lymara\_80
- Track 3 : ArV1\_070
- Track 4 : KBurrousTX\_83
- Track 5 : PrincessTrina\_84
- Track 6 : Colucci\_86
- Track 7 : Chubster\_84
- Track 8 : DrYang\_81
- Track 9 : Bubbykins\_93

### ***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 18 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipper1996\_840, Chocolat\_83, Chubster\_84, Colucci\_86, Conboy\_81, EdgarPoe\_82, HumptyDumpty\_83, JaNo\_82, JayCookie\_83, KBurrousTX\_83, Kabreeze\_83, Linus\_83, Lymara\_80, Mordred\_83, MoyaNatalis\_82, PrincessTrina\_84, RosiePosie\_83, Scavito\_84, Tophat\_84,

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

- 

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

- ArV1\_070, Bubbykins\_93, DrYang\_81,

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

Start 1:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bubbykins\_93 (UNK),

#### Start 3:

- Found in 19 of 22 ( 86.4% ) of genes in pham
- Manual Annotations of this start: 18 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chipper1996\_840 (AR), Chocolat\_83 (AR), Chubster\_84 (AR), Colucci\_86 (AR), Conboy\_81 (AR), EdgarPoe\_82 (AR), HumptyDumpty\_83 (AR), JaNo\_82 (AR), JayCookie\_83 (AR), KBurrousTX\_83 (AR), Kabreeze\_83 (AR), Linus\_83 (AR), Lymara\_80 (AR), Mordred\_83 (AR), MoyaNatalis\_82 (AR), PrincessTrina\_84 (AR), RosiePosie\_83 (AR), Scavito\_84 (AR), Tophat\_84 (AR),

#### Start 4:

- Found in 2 of 22 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1\_070 (AR), DrYang\_81 (AR),

### Summary by clusters:

There are 2 clusters represented in this pham: UNK, AR,

Info for manual annotations of cluster AR:

- Start number 3 was manually annotated 18 times for cluster AR.
- Start number 4 was manually annotated 1 time for cluster AR.

### **Gene Information:**

Gene: ArV1\_070 Start: 54700, Stop: 55125, Start Num: 4

Candidate Starts for ArV1\_070:

(Start: 4 @54700 has 1 MA's), (8, 54769), (12, 54844), (15, 54895), (16, 54934), (17, 54940), (20, 54991), (24, 55108), (26, 55114),

Gene: Bubbykins\_93 Start: 57699, Stop: 58184, Start Num: 1

Candidate Starts for Bubbykins\_93:

(1, 57699), (2, 57708), (6, 57759), (7, 57771), (13, 57876), (16, 57963), (21, 58023), (26, 58143), (27, 58149),

Gene: Chipper1996\_840 Start: 56185, Stop: 56757, Start Num: 3

Candidate Starts for Chipper1996\_840:

(Start: 3 @56185 has 18 MA's), (5, 56191), (7, 56233), (10, 56308), (16, 56422), (23, 56560), (25, 56599), (26, 56602), (28, 56614), (31, 56647), (37, 56707), (38, 56722), (39, 56740), (41, 56746),

Gene: Chocolat\_83 Start: 55892, Stop: 56464, Start Num: 3

Candidate Starts for Chocolat\_83:

(Start: 3 @55892 has 18 MA's), (5, 55898), (7, 55940), (10, 56015), (16, 56129), (23, 56267), (25, 56306), (26, 56309), (28, 56321), (31, 56354), (37, 56414), (38, 56429), (39, 56447), (41, 56453),

Gene: Chubster\_84 Start: 56541, Stop: 57113, Start Num: 3

Candidate Starts for Chubster\_84:

(Start: 3 @56541 has 18 MA's), (5, 56547), (7, 56589), (10, 56664), (16, 56778), (23, 56916), (25, 56955), (26, 56958), (28, 56970), (31, 57003), (32, 57006), (37, 57063), (39, 57096), (41, 57102),

Gene: Colucci\_86 Start: 56549, Stop: 57118, Start Num: 3

Candidate Starts for Colucci\_86:

(Start: 3 @56549 has 18 MA's), (5, 56555), (7, 56597), (10, 56672), (11, 56681), (13, 56702), (16, 56786), (23, 56924), (25, 56963), (26, 56966), (36, 57056), (37, 57068), (38, 57083), (40, 57104), (41, 57107),

Gene: Conboy\_81 Start: 55641, Stop: 56213, Start Num: 3

Candidate Starts for Conboy\_81:

(Start: 3 @55641 has 18 MA's), (5, 55647), (7, 55689), (10, 55764), (16, 55878), (23, 56016), (25, 56055), (26, 56058), (28, 56070), (31, 56103), (37, 56163), (38, 56178), (39, 56196), (41, 56202),

Gene: DrYang\_81 Start: 56419, Stop: 56859, Start Num: 4

Candidate Starts for DrYang\_81:

(Start: 4 @56419 has 1 MA's), (10, 56539), (14, 56605), (15, 56614), (19, 56695), (20, 56710), (24, 56827), (26, 56833), (29, 56854),

Gene: EdgarPoe\_82 Start: 56049, Stop: 56621, Start Num: 3

Candidate Starts for EdgarPoe\_82:

(Start: 3 @56049 has 18 MA's), (5, 56055), (7, 56097), (10, 56172), (16, 56286), (23, 56424), (25, 56463), (26, 56466), (28, 56478), (31, 56511), (37, 56571), (38, 56586), (39, 56604), (41, 56610),

Gene: HumptyDumpty\_83 Start: 55852, Stop: 56424, Start Num: 3

Candidate Starts for HumptyDumpty\_83:

(Start: 3 @55852 has 18 MA's), (5, 55858), (7, 55900), (10, 55975), (16, 56089), (23, 56227), (25, 56266), (26, 56269), (28, 56281), (31, 56314), (37, 56374), (38, 56389), (39, 56407), (41, 56413),

Gene: JaNo\_82 Start: 55823, Stop: 56395, Start Num: 3

Candidate Starts for JaNo\_82:

(Start: 3 @55823 has 18 MA's), (5, 55829), (7, 55871), (10, 55946), (16, 56060), (23, 56198), (25, 56237), (26, 56240), (28, 56252), (31, 56285), (37, 56345), (38, 56360), (39, 56378), (41, 56384),

Gene: JayCookie\_83 Start: 56385, Stop: 56957, Start Num: 3

Candidate Starts for JayCookie\_83:

(Start: 3 @56385 has 18 MA's), (5, 56391), (7, 56433), (10, 56508), (16, 56622), (23, 56760), (25, 56799), (26, 56802), (28, 56814), (31, 56847), (37, 56907), (38, 56922), (39, 56940), (41, 56946),

Gene: KBurrousTX\_83 Start: 57872, Stop: 58489, Start Num: 3

Candidate Starts for KBurrousTX\_83:

(Start: 3 @57872 has 18 MA's), (5, 57878), (9, 57980), (10, 57995), (12, 58019), (16, 58109), (18, 58139), (19, 58151), (24, 58283), (26, 58289), (33, 58352), (34, 58355), (35, 58364), (40, 58433), (42, 58475),

Gene: Kabreeze\_83 Start: 55909, Stop: 56481, Start Num: 3

Candidate Starts for Kabreeze\_83:

(Start: 3 @55909 has 18 MA's), (5, 55915), (7, 55957), (10, 56032), (16, 56146), (23, 56284), (25, 56323), (26, 56326), (28, 56338), (31, 56371), (37, 56431), (38, 56446), (39, 56464), (41, 56470),

Gene: Linus\_83 Start: 56357, Stop: 56929, Start Num: 3

Candidate Starts for Linus\_83:

(Start: 3 @56357 has 18 MA's), (5, 56363), (7, 56405), (10, 56480), (16, 56594), (23, 56732), (25, 56771), (26, 56774), (28, 56786), (31, 56819), (37, 56879), (38, 56894), (39, 56912), (41, 56918),

Gene: Lymara\_80 Start: 54875, Stop: 55447, Start Num: 3

Candidate Starts for Lymara\_80:

(Start: 3 @54875 has 18 MA's), (9, 54983), (10, 54998), (12, 55022), (22, 55217), (23, 55250), (25, 55289), (26, 55292), (28, 55304), (30, 55319), (31, 55337), (37, 55397), (38, 55412), (41, 55436),

Gene: Mordred\_83 Start: 55948, Stop: 56520, Start Num: 3

Candidate Starts for Mordred\_83:

(Start: 3 @55948 has 18 MA's), (5, 55954), (7, 55996), (10, 56071), (16, 56185), (23, 56323), (25, 56362), (26, 56365), (28, 56377), (31, 56410), (37, 56470), (38, 56485), (39, 56503), (41, 56509),

Gene: MoyaNatalis\_82 Start: 55831, Stop: 56403, Start Num: 3

Candidate Starts for MoyaNatalis\_82:

(Start: 3 @55831 has 18 MA's), (5, 55837), (7, 55879), (10, 55954), (16, 56068), (23, 56206), (25, 56245), (26, 56248), (28, 56260), (31, 56293), (37, 56353), (38, 56368), (39, 56386), (41, 56392),

Gene: PrincessTrina\_84 Start: 56133, Stop: 56705, Start Num: 3

Candidate Starts for PrincessTrina\_84:

(Start: 3 @56133 has 18 MA's), (5, 56139), (7, 56181), (10, 56256), (16, 56370), (23, 56508), (25, 56547), (26, 56550), (28, 56562), (31, 56595), (37, 56655), (38, 56670), (39, 56688),

Gene: RosiePosie\_83 Start: 56004, Stop: 56576, Start Num: 3

Candidate Starts for RosiePosie\_83:

(Start: 3 @56004 has 18 MA's), (5, 56010), (7, 56052), (10, 56127), (16, 56241), (23, 56379), (25, 56418), (26, 56421), (28, 56433), (31, 56466), (37, 56526), (38, 56541), (39, 56559), (41, 56565),

Gene: Scavito\_84 Start: 55997, Stop: 56569, Start Num: 3

Candidate Starts for Scavito\_84:

(Start: 3 @55997 has 18 MA's), (5, 56003), (7, 56045), (10, 56120), (16, 56234), (23, 56372), (25, 56411), (26, 56414), (28, 56426), (31, 56459), (37, 56519), (38, 56534), (39, 56552), (41, 56558),

Gene: Tophat\_84 Start: 56186, Stop: 56758, Start Num: 3

Candidate Starts for Tophat\_84:

(Start: 3 @56186 has 18 MA's), (5, 56192), (7, 56234), (10, 56309), (16, 56423), (23, 56561), (25, 56600), (26, 56603), (28, 56615), (31, 56648), (37, 56708), (38, 56723), (39, 56741), (41, 56747),