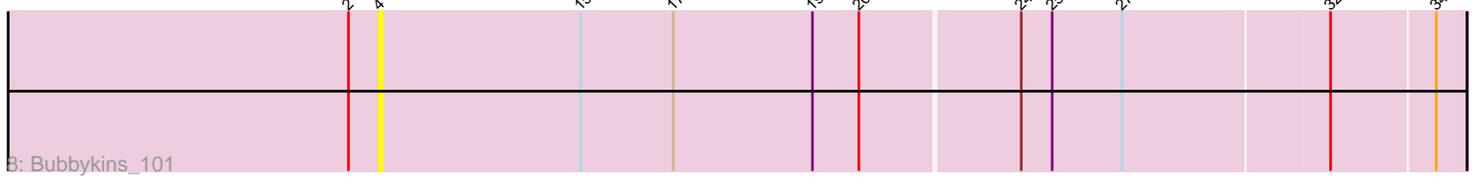
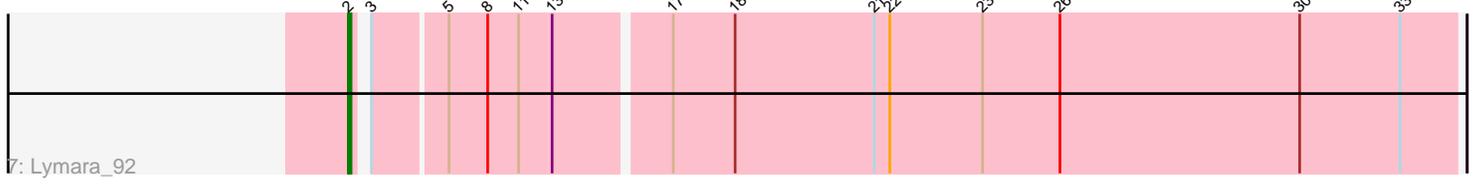
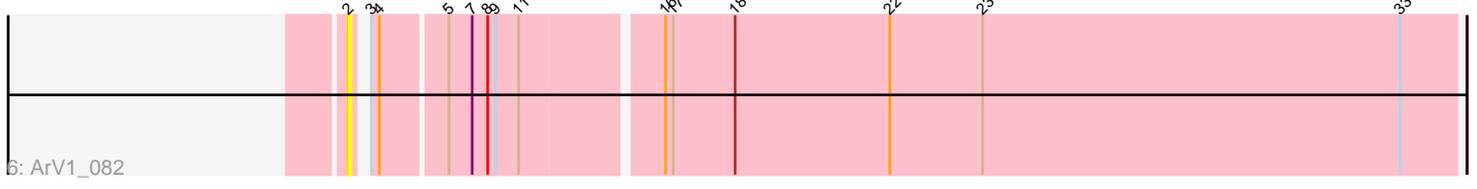
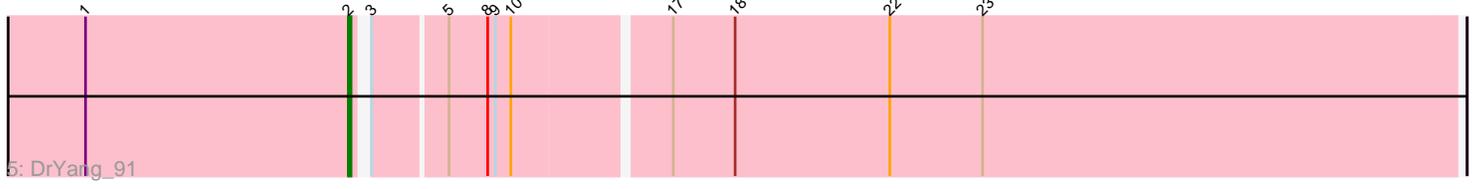
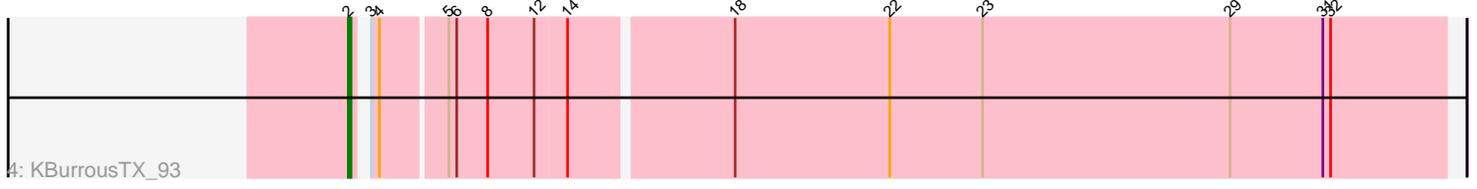
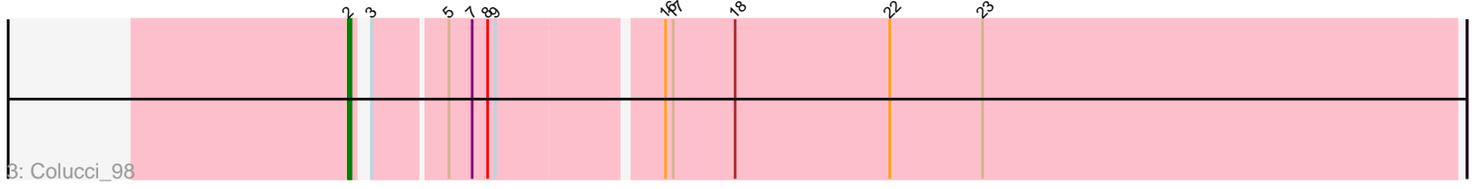
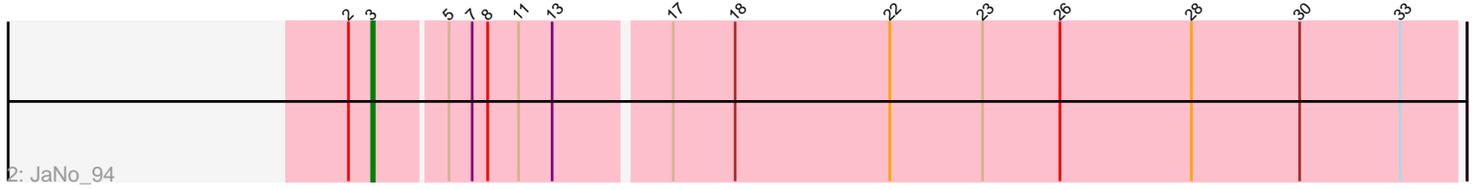
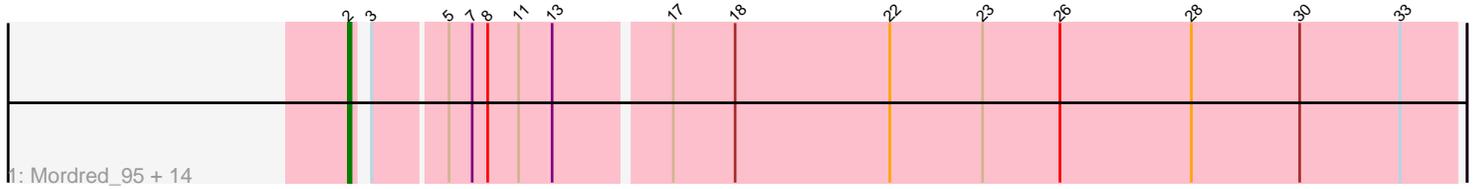


# Pham 289747



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 289747 Report

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

Pham number 289747 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Mordred\_95, HumptyDumpty\_95, Tophat\_96, JayCookie\_95, Chubster\_95, EdgarPoe\_94, RosiePosie\_95, Conboy\_93, Linus\_95, PrincessTrina\_96, Chocolat\_95, MoyaNatalis\_94, Kabreeze\_95, Chipper1996\_960, Scavito\_96
- Track 2 : JaNo\_94
- Track 3 : Colucci\_98
- Track 4 : KBurrousTX\_93
- Track 5 : DrYang\_91
- Track 6 : ArV1\_082
- Track 7 : Lymara\_92
- Track 8 : Bubbykins\_101

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

Genes that call this "Most Annotated" start:

- ArV1\_082, Chipper1996\_960, Chocolat\_95, Chubster\_95, Colucci\_98, Conboy\_93, DrYang\_91, EdgarPoe\_94, HumptyDumpty\_95, JayCookie\_95, KBurrousTX\_93, Kabreeze\_95, Linus\_95, Lymara\_92, Mordred\_95, MoyaNatalis\_94, PrincessTrina\_96, RosiePosie\_95, Scavito\_96, Tophat\_96,

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

- Bubbykins\_101, JaNo\_94,

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

- 

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

Start 2:

- Found in 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 18 of 19
- Called 90.9% of time when present

- Phage (with cluster) where this start called: ArV1\_082 (AR), Chipper1996\_960 (AR), Chocolat\_95 (AR), Chubster\_95 (AR), Colucci\_98 (AR), Conboy\_93 (AR), DrYang\_91 (AR), EdgarPoe\_94 (AR), HumptyDumpty\_95 (AR), JayCookie\_95 (AR), KBurrousTX\_93 (AR), Kabreeze\_95 (AR), Linus\_95 (AR), Lymara\_92 (AR), Mordred\_95 (AR), MoyaNatalis\_94 (AR), PrincessTrina\_96 (AR), RosiePosie\_95 (AR), Scavito\_96 (AR), Tophat\_96 (AR),

#### Start 3:

- Found in 21 of 22 ( 95.5% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 4.8% of time when present
- Phage (with cluster) where this start called: JaNo\_94 (AR),

#### Start 4:

- Found in 3 of 22 ( 13.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Bubbykins\_101 (UNK),

### Summary by clusters:

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

#### Info for manual annotations of cluster AR:

- Start number 2 was manually annotated 18 times for cluster AR.
- Start number 3 was manually annotated 1 time for cluster AR.

### **Gene Information:**

Gene: ArV1\_082 Start: 60520, Stop: 60933, Start Num: 2

Candidate Starts for ArV1\_082:

(Start: 2 @60520 has 18 MA's), (Start: 3 @60523 has 1 MA's), (4, 60526), (5, 60550), (7, 60559), (8, 60565), (9, 60568), (11, 60577), (16, 60628), (17, 60631), (18, 60655), (22, 60715), (23, 60751), (33, 60913),

Gene: Bubbykins\_101 Start: 60932, Stop: 61345, Start Num: 4

Candidate Starts for Bubbykins\_101:

(Start: 2 @60920 has 18 MA's), (4, 60932), (15, 61010), (17, 61046), (19, 61100), (20, 61118), (24, 61178), (25, 61190), (27, 61217), (32, 61295), (34, 61334),

Gene: Chipper1996\_960 Start: 62228, Stop: 62641, Start Num: 2

Candidate Starts for Chipper1996\_960:

(Start: 2 @62228 has 18 MA's), (Start: 3 @62231 has 1 MA's), (5, 62258), (7, 62267), (8, 62273), (11, 62285), (13, 62297), (17, 62339), (18, 62363), (22, 62423), (23, 62459), (26, 62489), (28, 62540), (30, 62582), (33, 62621),

Gene: Chocolat\_95 Start: 61935, Stop: 62348, Start Num: 2

Candidate Starts for Chocolat\_95:

(Start: 2 @61935 has 18 MA's), (Start: 3 @61938 has 1 MA's), (5, 61965), (7, 61974), (8, 61980), (11, 61992), (13, 62004), (17, 62046), (18, 62070), (22, 62130), (23, 62166), (26, 62196), (28, 62247), (30,

62289), (33, 62328),

Gene: Chubster\_95 Start: 62175, Stop: 62588, Start Num: 2

Candidate Starts for Chubster\_95:

(Start: 2 @62175 has 18 MA's), (Start: 3 @62178 has 1 MA's), (5, 62205), (7, 62214), (8, 62220), (11, 62232), (13, 62244), (17, 62286), (18, 62310), (22, 62370), (23, 62406), (26, 62436), (28, 62487), (30, 62529), (33, 62568),

Gene: Colucci\_98 Start: 62563, Stop: 62976, Start Num: 2

Candidate Starts for Colucci\_98:

(Start: 2 @62563 has 18 MA's), (Start: 3 @62566 has 1 MA's), (5, 62593), (7, 62602), (8, 62608), (9, 62611), (16, 62671), (17, 62674), (18, 62698), (22, 62758), (23, 62794),

Gene: Conboy\_93 Start: 61684, Stop: 62097, Start Num: 2

Candidate Starts for Conboy\_93:

(Start: 2 @61684 has 18 MA's), (Start: 3 @61687 has 1 MA's), (5, 61714), (7, 61723), (8, 61729), (11, 61741), (13, 61753), (17, 61795), (18, 61819), (22, 61879), (23, 61915), (26, 61945), (28, 61996), (30, 62038), (33, 62077),

Gene: DrYang\_91 Start: 61721, Stop: 62134, Start Num: 2

Candidate Starts for DrYang\_91:

(1, 61619), (Start: 2 @61721 has 18 MA's), (Start: 3 @61724 has 1 MA's), (5, 61751), (8, 61766), (9, 61769), (10, 61775), (17, 61832), (18, 61856), (22, 61916), (23, 61952),

Gene: EdgarPoe\_94 Start: 62092, Stop: 62505, Start Num: 2

Candidate Starts for EdgarPoe\_94:

(Start: 2 @62092 has 18 MA's), (Start: 3 @62095 has 1 MA's), (5, 62122), (7, 62131), (8, 62137), (11, 62149), (13, 62161), (17, 62203), (18, 62227), (22, 62287), (23, 62323), (26, 62353), (28, 62404), (30, 62446), (33, 62485),

Gene: HumptyDumpty\_95 Start: 61895, Stop: 62308, Start Num: 2

Candidate Starts for HumptyDumpty\_95:

(Start: 2 @61895 has 18 MA's), (Start: 3 @61898 has 1 MA's), (5, 61925), (7, 61934), (8, 61940), (11, 61952), (13, 61964), (17, 62006), (18, 62030), (22, 62090), (23, 62126), (26, 62156), (28, 62207), (30, 62249), (33, 62288),

Gene: JaNo\_94 Start: 61869, Stop: 62279, Start Num: 3

Candidate Starts for JaNo\_94:

(Start: 2 @61866 has 18 MA's), (Start: 3 @61869 has 1 MA's), (5, 61896), (7, 61905), (8, 61911), (11, 61923), (13, 61935), (17, 61977), (18, 62001), (22, 62061), (23, 62097), (26, 62127), (28, 62178), (30, 62220), (33, 62259),

Gene: JayCookie\_95 Start: 62428, Stop: 62841, Start Num: 2

Candidate Starts for JayCookie\_95:

(Start: 2 @62428 has 18 MA's), (Start: 3 @62431 has 1 MA's), (5, 62458), (7, 62467), (8, 62473), (11, 62485), (13, 62497), (17, 62539), (18, 62563), (22, 62623), (23, 62659), (26, 62689), (28, 62740), (30, 62782), (33, 62821),

Gene: KBurrousTX\_93 Start: 63304, Stop: 63714, Start Num: 2

Candidate Starts for KBurrousTX\_93:

(Start: 2 @63304 has 18 MA's), (Start: 3 @63307 has 1 MA's), (4, 63310), (5, 63334), (6, 63337), (8, 63349), (12, 63367), (14, 63379), (18, 63439), (22, 63499), (23, 63535), (29, 63631), (31, 63667), (32, 63670),

Gene: Kabreeze\_95 Start: 61952, Stop: 62365, Start Num: 2

Candidate Starts for Kabreeze\_95:

(Start: 2 @61952 has 18 MA's), (Start: 3 @61955 has 1 MA's), (5, 61982), (7, 61991), (8, 61997), (11, 62009), (13, 62021), (17, 62063), (18, 62087), (22, 62147), (23, 62183), (26, 62213), (28, 62264), (30, 62306), (33, 62345),

Gene: Linus\_95 Start: 62400, Stop: 62813, Start Num: 2

Candidate Starts for Linus\_95:

(Start: 2 @62400 has 18 MA's), (Start: 3 @62403 has 1 MA's), (5, 62430), (7, 62439), (8, 62445), (11, 62457), (13, 62469), (17, 62511), (18, 62535), (22, 62595), (23, 62631), (26, 62661), (28, 62712), (30, 62754), (33, 62793),

Gene: Lymara\_92 Start: 60859, Stop: 61272, Start Num: 2

Candidate Starts for Lymara\_92:

(Start: 2 @60859 has 18 MA's), (Start: 3 @60862 has 1 MA's), (5, 60889), (8, 60904), (11, 60916), (13, 60928), (17, 60970), (18, 60994), (21, 61048), (22, 61054), (23, 61090), (26, 61120), (30, 61213), (33, 61252),

Gene: Mordred\_95 Start: 61991, Stop: 62404, Start Num: 2

Candidate Starts for Mordred\_95:

(Start: 2 @61991 has 18 MA's), (Start: 3 @61994 has 1 MA's), (5, 62021), (7, 62030), (8, 62036), (11, 62048), (13, 62060), (17, 62102), (18, 62126), (22, 62186), (23, 62222), (26, 62252), (28, 62303), (30, 62345), (33, 62384),

Gene: MoyaNatalis\_94 Start: 61874, Stop: 62287, Start Num: 2

Candidate Starts for MoyaNatalis\_94:

(Start: 2 @61874 has 18 MA's), (Start: 3 @61877 has 1 MA's), (5, 61904), (7, 61913), (8, 61919), (11, 61931), (13, 61943), (17, 61985), (18, 62009), (22, 62069), (23, 62105), (26, 62135), (28, 62186), (30, 62228), (33, 62267),

Gene: PrincessTrina\_96 Start: 62182, Stop: 62595, Start Num: 2

Candidate Starts for PrincessTrina\_96:

(Start: 2 @62182 has 18 MA's), (Start: 3 @62185 has 1 MA's), (5, 62212), (7, 62221), (8, 62227), (11, 62239), (13, 62251), (17, 62293), (18, 62317), (22, 62377), (23, 62413), (26, 62443), (28, 62494), (30, 62536), (33, 62575),

Gene: RosiePosie\_95 Start: 62047, Stop: 62460, Start Num: 2

Candidate Starts for RosiePosie\_95:

(Start: 2 @62047 has 18 MA's), (Start: 3 @62050 has 1 MA's), (5, 62077), (7, 62086), (8, 62092), (11, 62104), (13, 62116), (17, 62158), (18, 62182), (22, 62242), (23, 62278), (26, 62308), (28, 62359), (30, 62401), (33, 62440),

Gene: Scavito\_96 Start: 62040, Stop: 62453, Start Num: 2

Candidate Starts for Scavito\_96:

(Start: 2 @62040 has 18 MA's), (Start: 3 @62043 has 1 MA's), (5, 62070), (7, 62079), (8, 62085), (11, 62097), (13, 62109), (17, 62151), (18, 62175), (22, 62235), (23, 62271), (26, 62301), (28, 62352), (30, 62394), (33, 62433),

Gene: Tophat\_96 Start: 62229, Stop: 62642, Start Num: 2

Candidate Starts for Tophat\_96:

(Start: 2 @62229 has 18 MA's), (Start: 3 @62232 has 1 MA's), (5, 62259), (7, 62268), (8, 62274), (11, 62286), (13, 62298), (17, 62340), (18, 62364), (22, 62424), (23, 62460), (26, 62490), (28, 62541), (30,

62583), (33, 62622),