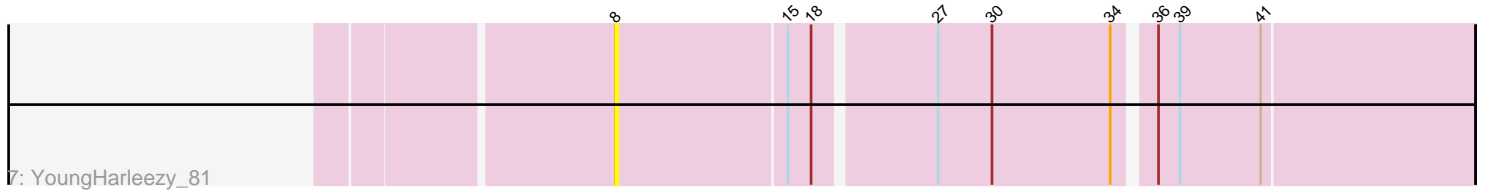
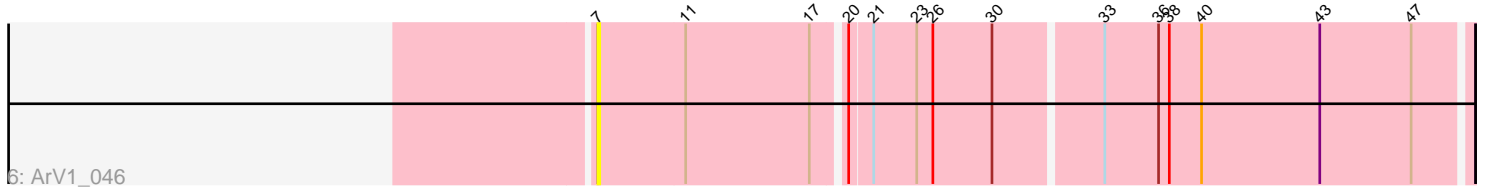
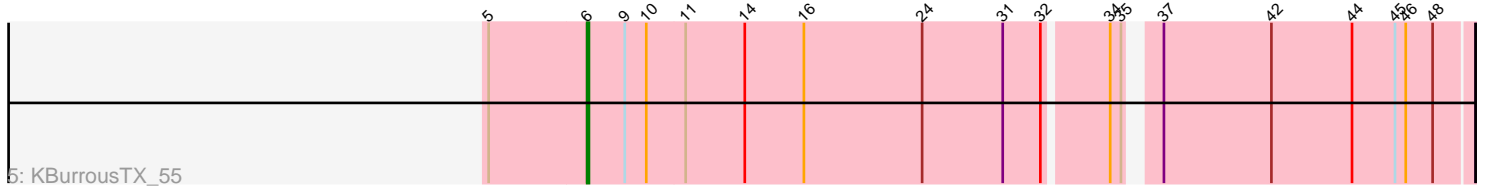
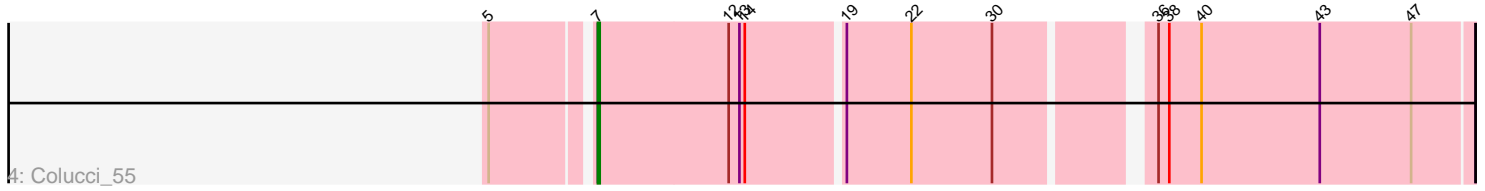
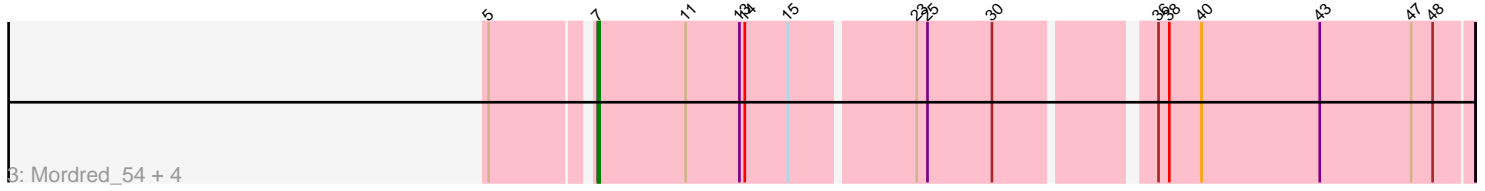
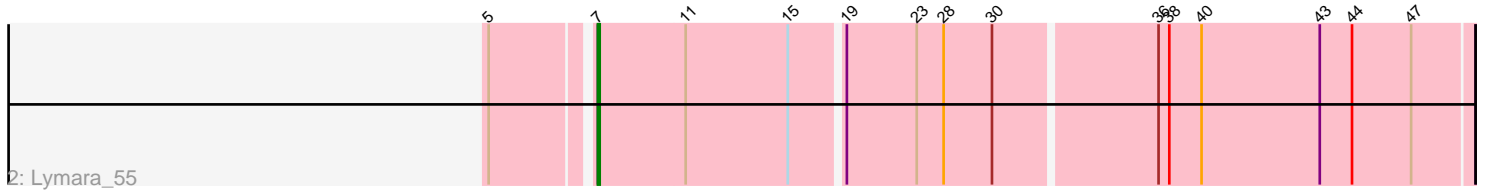
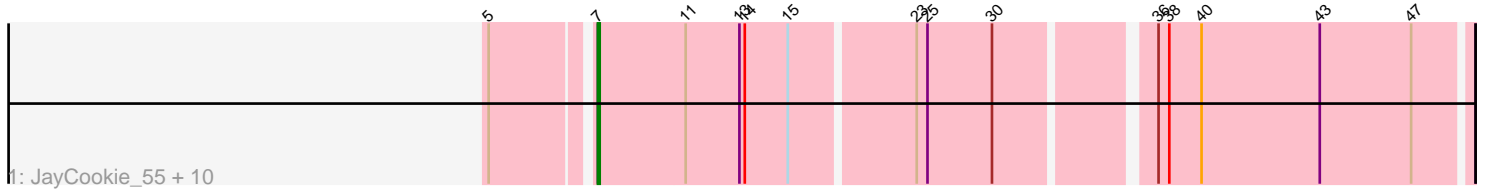


# Pham 170301



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 170301 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170301 has 22 members, 4 are drafts.

Phages represented in each track:

- Track 1 : JayCookie\_55, Chubster\_55, RosiePosie\_54, PrincessTrina\_54, EdgarPoe\_54, Linus\_54, Conboy\_54, Kabreeze\_54, Chocolat\_54, Scavito\_54, MoyaNatalis\_54
- Track 2 : Lymara\_55
- Track 3 : Mordred\_54, Chipper1996\_540, Tophat\_54, HumptyDumpty\_54, JaNo\_54
- Track 4 : Colucci\_55
- Track 5 : KBurrousTX\_55
- Track 6 : ArV1\_046
- Track 7 : YoungHarleezy\_81
- Track 8 : Isolde\_83

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

The start number called the most often in the published annotations is 7, it was called in 16 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArV1\_046, Chipper1996\_540, Chocolat\_54, Chubster\_55, Colucci\_55, Conboy\_54, EdgarPoe\_54, HumptyDumpty\_54, JaNo\_54, JayCookie\_55, Kabreeze\_54, Linus\_54, Lymara\_55, Mordred\_54, MoyaNatalis\_54, PrincessTrina\_54, RosiePosie\_54, Scavito\_54, Tophat\_54,

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

- 

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

- Isolde\_83, KBurrousTX\_55, YoungHarleezy\_81,

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

Start 6:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present

- Phage (with cluster) where this start called: KBurrousTX\_55 (AR),

#### Start 7:

- Found in 19 of 22 ( 86.4% ) of genes in pham
- Manual Annotations of this start: 16 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1\_046 (AR), Chipper1996\_540 (AR), Chocolat\_54 (AR), Chubster\_55 (AR), Colucci\_55 (AR), Conboy\_54 (AR), EdgarPoe\_54 (AR), HumptyDumpty\_54 (AR), JaNo\_54 (AR), JayCookie\_55 (AR), Kabreeze\_54 (AR), Linus\_54 (AR), Lymara\_55 (AR), Mordred\_54 (AR), MoyaNatalis\_54 (AR), PrincessTrina\_54 (AR), RosiePosie\_54 (AR), Scavito\_54 (AR), Tophat\_54 (AR),

#### Start 8:

- Found in 2 of 22 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Isolde\_83 (AY), YoungHarleezy\_81 (AY),

### Summary by clusters:

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

Info for manual annotations of cluster AR:

- Start number 6 was manually annotated 1 time for cluster AR.
- Start number 7 was manually annotated 16 times for cluster AR.

Info for manual annotations of cluster AY:

- Start number 8 was manually annotated 1 time for cluster AY.

### Gene Information:

Gene: ArV1\_046 Start: 40192, Stop: 40659, Start Num: 7

Candidate Starts for ArV1\_046:

(Start: 7 @40192 has 16 MA's), (11, 40240), (17, 40309), (20, 40324), (21, 40336), (23, 40360), (26, 40369), (30, 40402), (33, 40459), (36, 40489), (38, 40495), (40, 40513), (43, 40579), (47, 40630),

Gene: Chipper1996\_540 Start: 41114, Stop: 41578, Start Num: 7

Candidate Starts for Chipper1996\_540:

(5, 41063), (Start: 7 @41114 has 16 MA's), (11, 41162), (13, 41192), (14, 41195), (15, 41219), (23, 41285), (25, 41291), (30, 41327), (36, 41405), (38, 41411), (40, 41429), (43, 41495), (47, 41546), (48, 41558),

Gene: Chocolat\_54 Start: 41094, Stop: 41555, Start Num: 7

Candidate Starts for Chocolat\_54:

(5, 41043), (Start: 7 @41094 has 16 MA's), (11, 41142), (13, 41172), (14, 41175), (15, 41199), (23, 41265), (25, 41271), (30, 41307), (36, 41385), (38, 41391), (40, 41409), (43, 41475), (47, 41526),

Gene: Chubster\_55 Start: 41246, Stop: 41707, Start Num: 7

Candidate Starts for Chubster\_55:

(5, 41195), (Start: 7 @41246 has 16 MA's), (11, 41294), (13, 41324), (14, 41327), (15, 41351), (23, 41417), (25, 41423), (30, 41459), (36, 41537), (38, 41543), (40, 41561), (43, 41627), (47, 41678),

Gene: Colucci\_55 Start: 41190, Stop: 41651, Start Num: 7

Candidate Starts for Colucci\_55:

(5, 41139), (Start: 7 @41190 has 16 MA's), (12, 41262), (13, 41268), (14, 41271), (19, 41322), (22, 41358), (30, 41403), (36, 41478), (38, 41484), (40, 41502), (43, 41568), (47, 41619),

Gene: Conboy\_54 Start: 41242, Stop: 41703, Start Num: 7

Candidate Starts for Conboy\_54:

(5, 41191), (Start: 7 @41242 has 16 MA's), (11, 41290), (13, 41320), (14, 41323), (15, 41347), (23, 41413), (25, 41419), (30, 41455), (36, 41533), (38, 41539), (40, 41557), (43, 41623), (47, 41674),

Gene: EdgarPoe\_54 Start: 41242, Stop: 41703, Start Num: 7

Candidate Starts for EdgarPoe\_54:

(5, 41191), (Start: 7 @41242 has 16 MA's), (11, 41290), (13, 41320), (14, 41323), (15, 41347), (23, 41413), (25, 41419), (30, 41455), (36, 41533), (38, 41539), (40, 41557), (43, 41623), (47, 41674),

Gene: HumptyDumpty\_54 Start: 41112, Stop: 41576, Start Num: 7

Candidate Starts for HumptyDumpty\_54:

(5, 41061), (Start: 7 @41112 has 16 MA's), (11, 41160), (13, 41190), (14, 41193), (15, 41217), (23, 41283), (25, 41289), (30, 41325), (36, 41403), (38, 41409), (40, 41427), (43, 41493), (47, 41544), (48, 41556),

Gene: Isolde\_83 Start: 47822, Stop: 48277, Start Num: 8

Candidate Starts for Isolde\_83:

(1, 47513), (2, 47531), (3, 47564), (4, 47606), (Start: 8 @47822 has 1 MA's), (18, 47927), (27, 47990), (28, 47993), (29, 48008), (30, 48020), (34, 48086), (36, 48104), (39, 48116),

Gene: JaNo\_54 Start: 41118, Stop: 41582, Start Num: 7

Candidate Starts for JaNo\_54:

(5, 41067), (Start: 7 @41118 has 16 MA's), (11, 41166), (13, 41196), (14, 41199), (15, 41223), (23, 41289), (25, 41295), (30, 41331), (36, 41409), (38, 41415), (40, 41433), (43, 41499), (47, 41550), (48, 41562),

Gene: JayCookie\_55 Start: 41505, Stop: 41966, Start Num: 7

Candidate Starts for JayCookie\_55:

(5, 41454), (Start: 7 @41505 has 16 MA's), (11, 41553), (13, 41583), (14, 41586), (15, 41610), (23, 41676), (25, 41682), (30, 41718), (36, 41796), (38, 41802), (40, 41820), (43, 41886), (47, 41937),

Gene: KBurrousTX\_55 Start: 42517, Stop: 42990, Start Num: 6

Candidate Starts for KBurrousTX\_55:

(5, 42463), (Start: 6 @42517 has 1 MA's), (9, 42538), (10, 42550), (11, 42571), (14, 42604), (16, 42637), (24, 42703), (31, 42748), (32, 42769), (34, 42802), (35, 42808), (37, 42820), (42, 42880), (44, 42925), (45, 42949), (46, 42955), (48, 42970),

Gene: Kabreeze\_54 Start: 41112, Stop: 41573, Start Num: 7

Candidate Starts for Kabreeze\_54:

(5, 41061), (Start: 7 @41112 has 16 MA's), (11, 41160), (13, 41190), (14, 41193), (15, 41217), (23, 41283), (25, 41289), (30, 41325), (36, 41403), (38, 41409), (40, 41427), (43, 41493), (47, 41544),

Gene: Linus\_54 Start: 41235, Stop: 41696, Start Num: 7

Candidate Starts for Linus\_54:

(5, 41184), (Start: 7 @41235 has 16 MA's), (11, 41283), (13, 41313), (14, 41316), (15, 41340), (23, 41406), (25, 41412), (30, 41448), (36, 41526), (38, 41532), (40, 41550), (43, 41616), (47, 41667),

Gene: Lymara\_55 Start: 41454, Stop: 41927, Start Num: 7

Candidate Starts for Lymara\_55:

(5, 41403), (Start: 7 @41454 has 16 MA's), (11, 41502), (15, 41559), (19, 41586), (23, 41625), (28, 41640), (30, 41667), (36, 41754), (38, 41760), (40, 41778), (43, 41844), (44, 41862), (47, 41895),

Gene: Mordred\_54 Start: 41112, Stop: 41576, Start Num: 7

Candidate Starts for Mordred\_54:

(5, 41061), (Start: 7 @41112 has 16 MA's), (11, 41160), (13, 41190), (14, 41193), (15, 41217), (23, 41283), (25, 41289), (30, 41325), (36, 41403), (38, 41409), (40, 41427), (43, 41493), (47, 41544), (48, 41556),

Gene: MoyaNatalis\_54 Start: 41081, Stop: 41542, Start Num: 7

Candidate Starts for MoyaNatalis\_54:

(5, 41030), (Start: 7 @41081 has 16 MA's), (11, 41129), (13, 41159), (14, 41162), (15, 41186), (23, 41252), (25, 41258), (30, 41294), (36, 41372), (38, 41378), (40, 41396), (43, 41462), (47, 41513),

Gene: PrincessTrina\_54 Start: 41258, Stop: 41719, Start Num: 7

Candidate Starts for PrincessTrina\_54:

(5, 41207), (Start: 7 @41258 has 16 MA's), (11, 41306), (13, 41336), (14, 41339), (15, 41363), (23, 41429), (25, 41435), (30, 41471), (36, 41549), (38, 41555), (40, 41573), (43, 41639), (47, 41690),

Gene: RosiePosie\_54 Start: 41115, Stop: 41576, Start Num: 7

Candidate Starts for RosiePosie\_54:

(5, 41064), (Start: 7 @41115 has 16 MA's), (11, 41163), (13, 41193), (14, 41196), (15, 41220), (23, 41286), (25, 41292), (30, 41328), (36, 41406), (38, 41412), (40, 41430), (43, 41496), (47, 41547),

Gene: Scavito\_54 Start: 41119, Stop: 41580, Start Num: 7

Candidate Starts for Scavito\_54:

(5, 41068), (Start: 7 @41119 has 16 MA's), (11, 41167), (13, 41197), (14, 41200), (15, 41224), (23, 41290), (25, 41296), (30, 41332), (36, 41410), (38, 41416), (40, 41434), (43, 41500), (47, 41551),

Gene: Tophat\_54 Start: 41114, Stop: 41578, Start Num: 7

Candidate Starts for Tophat\_54:

(5, 41063), (Start: 7 @41114 has 16 MA's), (11, 41162), (13, 41192), (14, 41195), (15, 41219), (23, 41285), (25, 41291), (30, 41327), (36, 41405), (38, 41411), (40, 41429), (43, 41495), (47, 41546), (48, 41558),

Gene: YoungHarleezy\_81 Start: 47460, Stop: 47915, Start Num: 8

Candidate Starts for YoungHarleezy\_81:

(Start: 8 @47460 has 1 MA's), (15, 47553), (18, 47565), (27, 47628), (30, 47658), (34, 47724), (36, 47742), (39, 47754), (41, 47799),