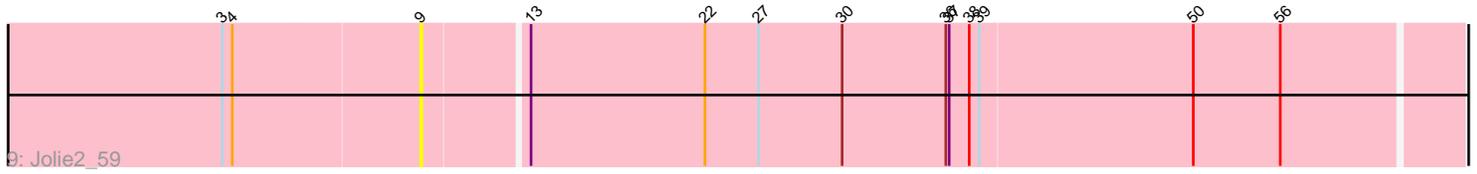
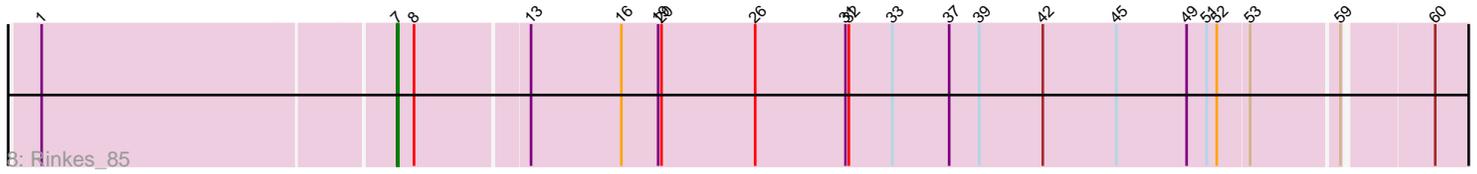
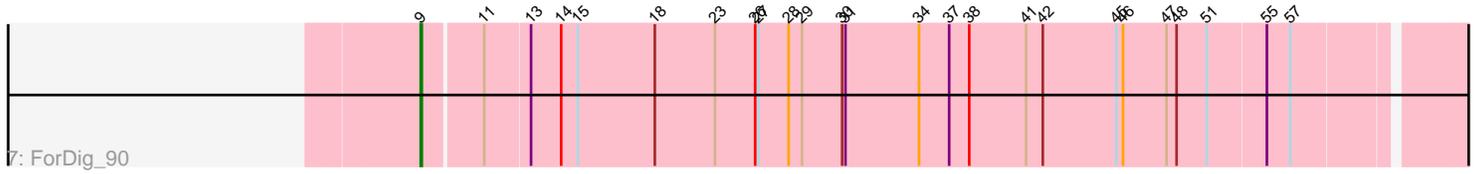
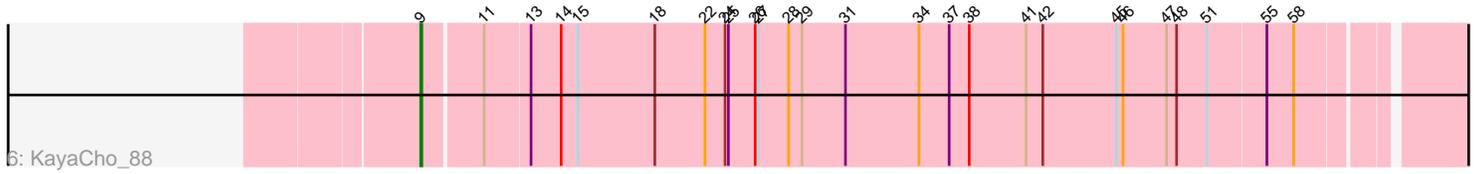
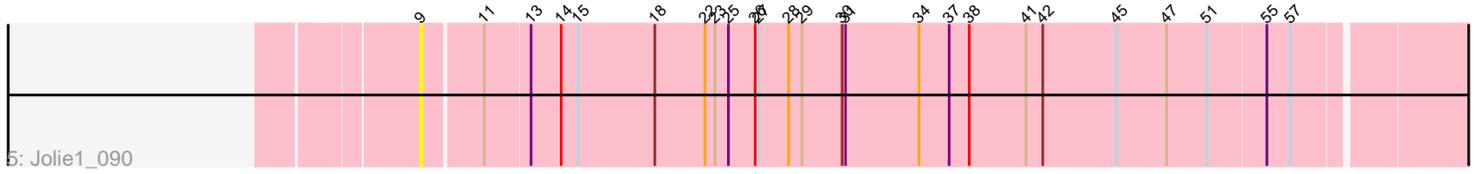
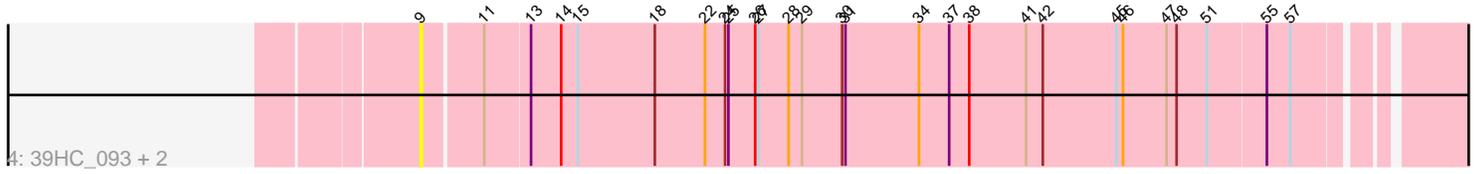
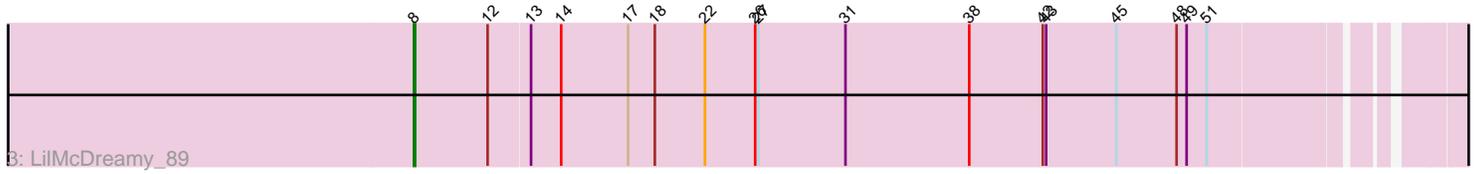
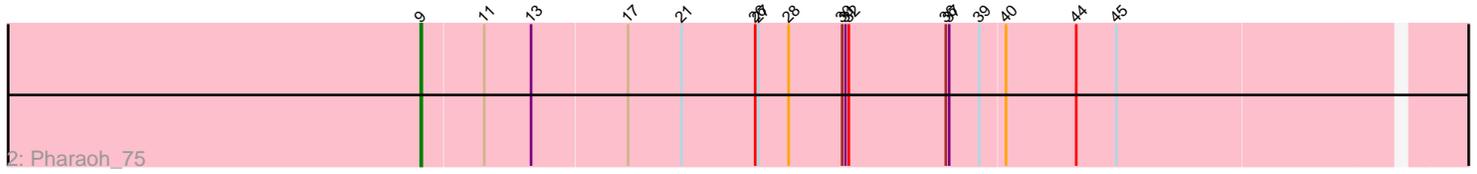
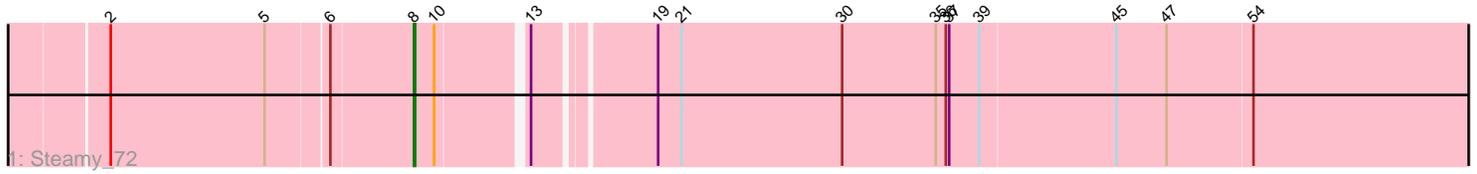


Pham 287195



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 287195 Report

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

Pham number 287195 has 11 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Steamy\_72
- Track 2 : Pharaoh\_75
- Track 3 : LilMcDreamy\_89
- Track 4 : 39HC\_093, Hosp\_088, 40BC\_093
- Track 5 : Jolie1\_090
- Track 6 : KayaCho\_88
- Track 7 : ForDig\_90
- Track 8 : Rinkes\_85
- Track 9 : Jolie2\_59

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

The start number called the most often in the published annotations is 9, it was called in 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC\_093, 40BC\_093, ForDig\_90, Hosp\_088, Jolie1\_090, Jolie2\_59, KayaCho\_88, Pharaoh\_75,

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

- 

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

- LilMcDreamy\_89, Rinkes\_85, Steamy\_72,

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

Start 7:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rinkes\_85 (B9),

Start 8:

- Found in 3 of 11 ( 27.3% ) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 66.7% of time when present
- Phage (with cluster) where this start called: LilMcDreamy\_89 (B12), Steamy\_72 (A12),

Start 9:

- Found in 8 of 11 ( 72.7% ) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC\_093 (B6), 40BC\_093 (B6), ForDig\_90 (B6), Hosp\_088 (B6), Jolie1\_090 (B6), Jolie2\_59 (G4), KayaCho\_88 (B6), Pharaoh\_75 (A12),

### **Summary by clusters:**

There are 5 clusters represented in this pham: B6, G4, B12, B9, A12,

Info for manual annotations of cluster A12:

- Start number 8 was manually annotated 1 time for cluster A12.
- Start number 9 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster B12:

- Start number 8 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B6:

- Start number 9 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B9:

- Start number 7 was manually annotated 1 time for cluster B9.

### **Gene Information:**

Gene: 39HC\_093 Start: 67833, Stop: 66919, Start Num: 9

Candidate Starts for 39HC\_093:

(Start: 9 @67833 has 3 MA's), (11, 67782), (13, 67743), (14, 67716), (15, 67701), (18, 67632), (22, 67587), (24, 67569), (25, 67566), (26, 67542), (27, 67539), (28, 67512), (29, 67500), (30, 67464), (31, 67461), (34, 67395), (37, 67368), (38, 67350), (41, 67299), (42, 67284), (45, 67218), (46, 67212), (47, 67173), (48, 67164), (51, 67137), (55, 67086), (57, 67065),

Gene: 40BC\_093 Start: 67833, Stop: 66919, Start Num: 9

Candidate Starts for 40BC\_093:

(Start: 9 @67833 has 3 MA's), (11, 67782), (13, 67743), (14, 67716), (15, 67701), (18, 67632), (22, 67587), (24, 67569), (25, 67566), (26, 67542), (27, 67539), (28, 67512), (29, 67500), (30, 67464), (31, 67461), (34, 67395), (37, 67368), (38, 67350), (41, 67299), (42, 67284), (45, 67218), (46, 67212), (47, 67173), (48, 67164), (51, 67137), (55, 67086), (57, 67065),

Gene: ForDig\_90 Start: 67112, Stop: 66186, Start Num: 9

Candidate Starts for ForDig\_90:

(Start: 9 @67112 has 3 MA's), (11, 67061), (13, 67022), (14, 66995), (15, 66980), (18, 66911), (23, 66857), (26, 66821), (27, 66818), (28, 66791), (29, 66779), (30, 66743), (31, 66740), (34, 66674), (37, 66647), (38, 66629), (41, 66578), (42, 66563), (45, 66497), (46, 66491), (47, 66452), (48, 66443), (51, 66416), (55, 66365), (57, 66344),

Gene: Hosp\_088 Start: 65138, Stop: 64224, Start Num: 9

Candidate Starts for Hosp\_088:

(Start: 9 @65138 has 3 MA's), (11, 65087), (13, 65048), (14, 65021), (15, 65006), (18, 64937), (22, 64892), (24, 64874), (25, 64871), (26, 64847), (27, 64844), (28, 64817), (29, 64805), (30, 64769), (31, 64766), (34, 64700), (37, 64673), (38, 64655), (41, 64604), (42, 64589), (45, 64523), (46, 64517), (47, 64478), (48, 64469), (51, 64442), (55, 64391), (57, 64370),

Gene: Jolie1\_090 Start: 67206, Stop: 66277, Start Num: 9

Candidate Starts for Jolie1\_090:

(Start: 9 @67206 has 3 MA's), (11, 67155), (13, 67116), (14, 67089), (15, 67074), (18, 67005), (22, 66960), (23, 66951), (25, 66939), (26, 66915), (27, 66912), (28, 66885), (29, 66873), (30, 66837), (31, 66834), (34, 66768), (37, 66741), (38, 66723), (41, 66672), (42, 66657), (45, 66591), (47, 66546), (51, 66510), (55, 66459), (57, 66438),

Gene: Jolie2\_59 Start: 41491, Stop: 42402, Start Num: 9

Candidate Starts for Jolie2\_59:

(3, 41317), (4, 41326), (Start: 9 @41491 has 3 MA's), (13, 41578), (22, 41734), (27, 41782), (30, 41857), (36, 41950), (37, 41953), (38, 41971), (39, 41980), (50, 42169), (56, 42247),

Gene: KayaCho\_88 Start: 67067, Stop: 66147, Start Num: 9

Candidate Starts for KayaCho\_88:

(Start: 9 @67067 has 3 MA's), (11, 67016), (13, 66977), (14, 66950), (15, 66935), (18, 66866), (22, 66821), (24, 66803), (25, 66800), (26, 66776), (27, 66773), (28, 66746), (29, 66734), (31, 66695), (34, 66629), (37, 66602), (38, 66584), (41, 66533), (42, 66518), (45, 66452), (46, 66446), (47, 66407), (48, 66398), (51, 66371), (55, 66320), (58, 66296),

Gene: LilMcDreamy\_89 Start: 67041, Stop: 66121, Start Num: 8

Candidate Starts for LilMcDreamy\_89:

(Start: 8 @67041 has 2 MA's), (12, 66975), (13, 66939), (14, 66912), (17, 66852), (18, 66828), (22, 66783), (26, 66738), (27, 66735), (31, 66657), (38, 66546), (42, 66480), (43, 66477), (45, 66414), (48, 66360), (49, 66351), (51, 66333),

Gene: Pharaoh\_75 Start: 46704, Stop: 45793, Start Num: 9

Candidate Starts for Pharaoh\_75:

(Start: 9 @46704 has 3 MA's), (11, 46650), (13, 46608), (17, 46524), (21, 46476), (26, 46410), (27, 46407), (28, 46380), (30, 46332), (31, 46329), (32, 46326), (36, 46239), (37, 46236), (39, 46209), (40, 46188), (44, 46125), (45, 46089),

Gene: Rinkes\_85 Start: 66609, Stop: 65662, Start Num: 7

Candidate Starts for Rinkes\_85:

(1, 66915), (Start: 7 @66609 has 1 MA's), (Start: 8 @66594 has 2 MA's), (13, 66498), (16, 66417), (19, 66384), (20, 66381), (26, 66297), (31, 66216), (32, 66213), (33, 66174), (37, 66123), (39, 66096), (42, 66039), (45, 65973), (49, 65910), (51, 65892), (52, 65883), (53, 65856), (59, 65781), (60, 65709),

Gene: Steamy\_72 Start: 45654, Stop: 44725, Start Num: 8

Candidate Starts for Steamy\_72:

(2, 45909), (5, 45774), (6, 45723), (Start: 8 @45654 has 2 MA's), (10, 45636), (13, 45564), (19, 45468), (21, 45447), (30, 45303), (35, 45219), (36, 45210), (37, 45207), (39, 45180), (45, 45060), (47, 45015),

(54, 44940),