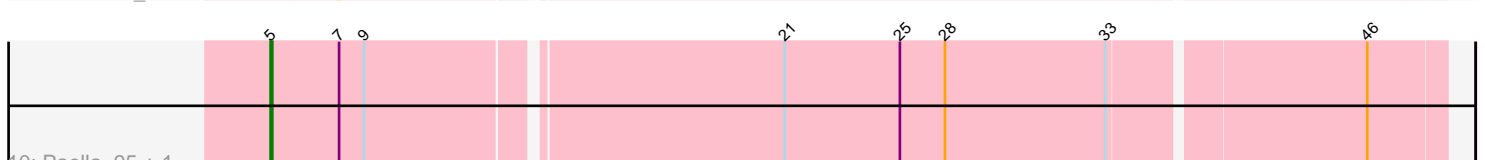
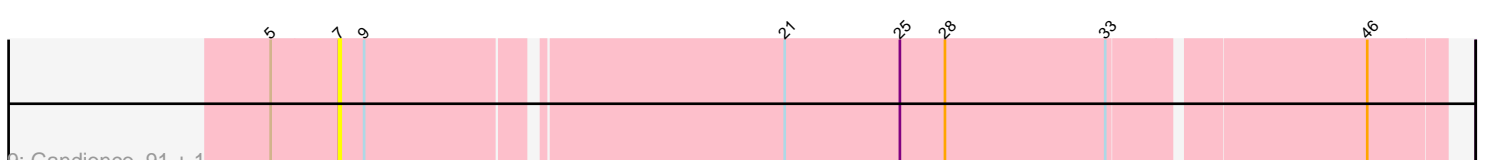
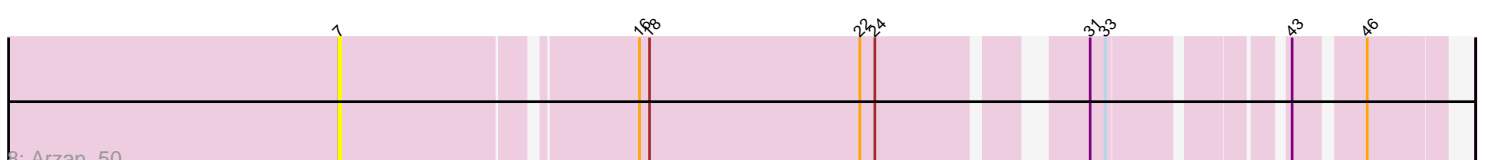
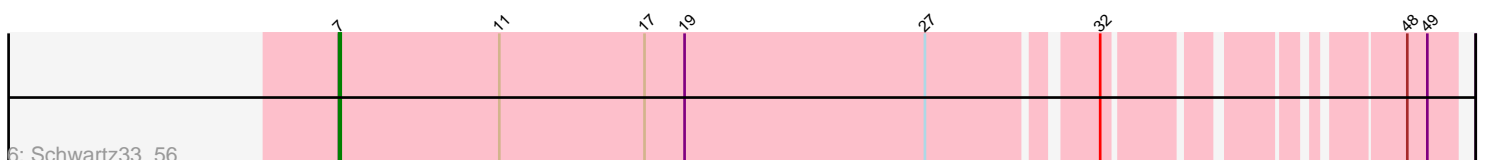
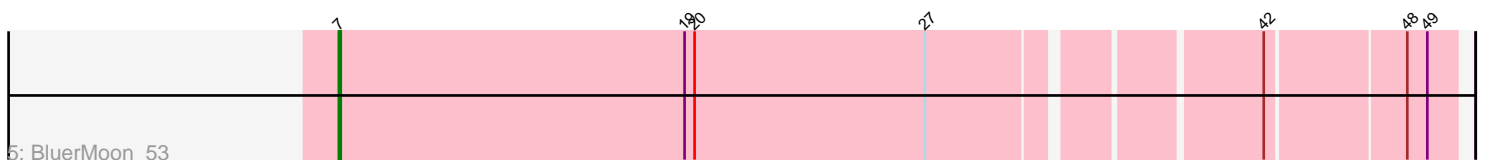
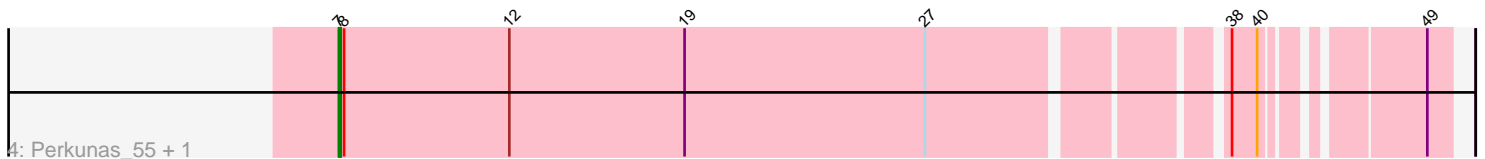
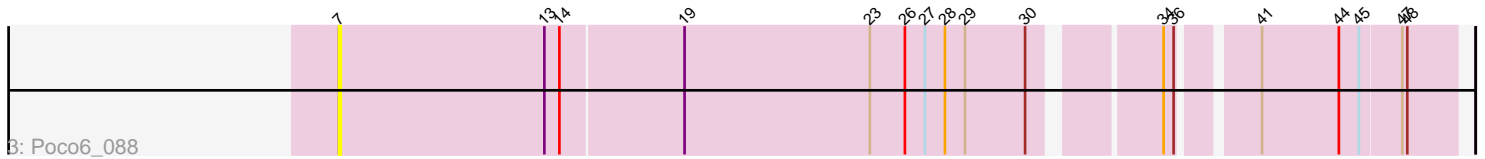
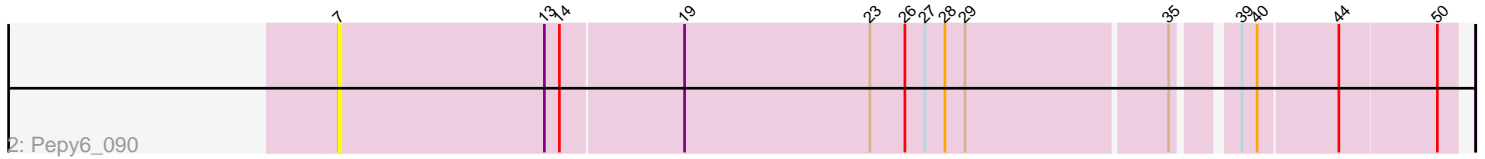
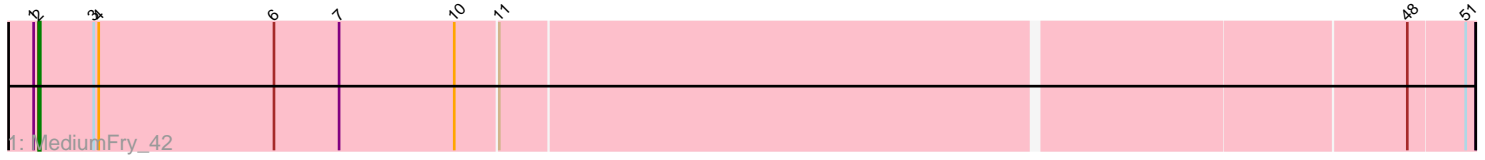


# Pham 225002



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 225002 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225002 has 14 members, 8 are drafts.

Phages represented in each track:

- Track 1 : MediumFry\_42
- Track 2 : Pepy6\_090
- Track 3 : Poco6\_088
- Track 4 : Perkunas\_55, Talon44\_56
- Track 5 : BluerMoon\_53
- Track 6 : Schwartz33\_56
- Track 7 : Jazzy4900\_49, Sunny4976\_48
- Track 8 : Arzan\_50
- Track 9 : Gandionco\_91, Elver\_93
- Track 10 : Paella\_95, Qui\_95

### ***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 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arzan\_50, BluerMoon\_53, Elver\_93, Gandionco\_91, Jazzy4900\_49, Pepy6\_090, Perkunas\_55, Poco6\_088, Schwartz33\_56, Sunny4976\_48, Talon44\_56,

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

- MediumFry\_42, Paella\_95, Qui\_95,

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

- 

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

Start 2:

- Found in 1 of 14 ( 7.1% ) 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: MediumFry\_42 (AU4),

Start 5:

- Found in 4 of 14 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Paella\_95 (FK), Qui\_95 (FK),

Start 7:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 78.6% of time when present
- Phage (with cluster) where this start called: Arzan\_50 (FI), BluerMoon\_53 (DJ), Elver\_93 (FK), Gandionco\_91 (FK), Jazzy4900\_49 (FI), Pepy6\_090 (CC), Perunas\_55 (DJ), Poco6\_088 (CC), Schwartz33\_56 (DJ), Sunny4976\_48 (FI), Talon44\_56 (DJ),

**Summary by clusters:**

There are 5 clusters represented in this pham: CC, FI, FK, DJ, AU4,

Info for manual annotations of cluster AU4:

- Start number 2 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster DJ:

- Start number 7 was manually annotated 3 times for cluster DJ.

Info for manual annotations of cluster FK:

- Start number 5 was manually annotated 2 times for cluster FK.

**Gene Information:**

Gene: Arzan\_50 Start: 33168, Stop: 33752, Start Num: 7

Candidate Starts for Arzan\_50:

(Start: 7 @33168 has 3 MA's), (16, 33333), (18, 33339), (22, 33465), (24, 33474), (31, 33576), (33, 33585), (43, 33672), (46, 33708),

Gene: BluerMoon\_53 Start: 37653, Stop: 38291, Start Num: 7

Candidate Starts for BluerMoon\_53:

(Start: 7 @37653 has 3 MA's), (19, 37860), (20, 37866), (27, 38004), (42, 38184), (48, 38262), (49, 38274),

Gene: Elver\_93 Start: 52898, Stop: 53530, Start Num: 7

Candidate Starts for Elver\_93:

(Start: 5 @52859 has 2 MA's), (Start: 7 @52898 has 3 MA's), (9, 52913), (21, 53150), (25, 53219), (28, 53246), (33, 53342), (46, 53486),

Gene: Gandionco\_91 Start: 51754, Stop: 52386, Start Num: 7

Candidate Starts for Gandionco\_91:

(Start: 5 @51715 has 2 MA's), (Start: 7 @51754 has 3 MA's), (9, 51769), (21, 52006), (25, 52075), (28, 52102), (33, 52198), (46, 52342),

Gene: Jazzy4900\_49 Start: 33968, Stop: 34558, Start Num: 7

Candidate Starts for Jazzy4900\_49:

(Start: 7 @33968 has 3 MA's), (8, 33971), (15, 34091), (16, 34133), (18, 34139), (22, 34265), (24, 34274), (31, 34376), (33, 34385), (37, 34427), (46, 34514),

Gene: MediumFry\_42 Start: 32492, Stop: 33331, Start Num: 2

Candidate Starts for MediumFry\_42:

(1, 32489), (Start: 2 @32492 has 1 MA's), (3, 32525), (4, 32528), (6, 32633), (Start: 7 @32672 has 3 MA's), (10, 32741), (11, 32765), (48, 33293), (51, 33326),

Gene: Paella\_95 Start: 53449, Stop: 54120, Start Num: 5

Candidate Starts for Paella\_95:

(Start: 5 @53449 has 2 MA's), (Start: 7 @53488 has 3 MA's), (9, 53503), (21, 53740), (25, 53809), (28, 53836), (33, 53932), (46, 54076),

Gene: Pepy6\_090 Start: 47253, Stop: 47894, Start Num: 7

Candidate Starts for Pepy6\_090:

(Start: 7 @47253 has 3 MA's), (13, 47376), (14, 47385), (19, 47457), (23, 47568), (26, 47589), (27, 47601), (28, 47613), (29, 47625), (35, 47742), (39, 47772), (40, 47781), (44, 47826), (50, 47883),

Gene: Perkunas\_55 Start: 36810, Stop: 37424, Start Num: 7

Candidate Starts for Perkunas\_55:

(Start: 7 @36810 has 3 MA's), (8, 36813), (12, 36912), (19, 37017), (27, 37161), (38, 37317), (40, 37332), (49, 37410),

Gene: Poco6\_088 Start: 49493, Stop: 50125, Start Num: 7

Candidate Starts for Poco6\_088:

(Start: 7 @49493 has 3 MA's), (13, 49616), (14, 49625), (19, 49697), (23, 49808), (26, 49829), (27, 49841), (28, 49853), (29, 49865), (30, 49901), (34, 49967), (36, 49973), (41, 50012), (44, 50057), (45, 50069), (47, 50093), (48, 50096),

Gene: Qui\_95 Start: 53449, Stop: 54120, Start Num: 5

Candidate Starts for Qui\_95:

(Start: 5 @53449 has 2 MA's), (Start: 7 @53488 has 3 MA's), (9, 53503), (21, 53740), (25, 53809), (28, 53836), (33, 53932), (46, 54076),

Gene: Schwartz33\_56 Start: 37627, Stop: 38241, Start Num: 7

Candidate Starts for Schwartz33\_56:

(Start: 7 @37627 has 3 MA's), (11, 37723), (17, 37810), (19, 37834), (27, 37978), (32, 38068), (48, 38212), (49, 38224),

Gene: Sunny4976\_48 Start: 33968, Stop: 34558, Start Num: 7

Candidate Starts for Sunny4976\_48:

(Start: 7 @33968 has 3 MA's), (8, 33971), (15, 34091), (16, 34133), (18, 34139), (22, 34265), (24, 34274), (31, 34376), (33, 34385), (37, 34427), (46, 34514),

Gene: Talon44\_56 Start: 36844, Stop: 37458, Start Num: 7

Candidate Starts for Talon44\_56:

(Start: 7 @36844 has 3 MA's), (8, 36847), (12, 36946), (19, 37051), (27, 37195), (38, 37351), (40, 37366), (49, 37444),