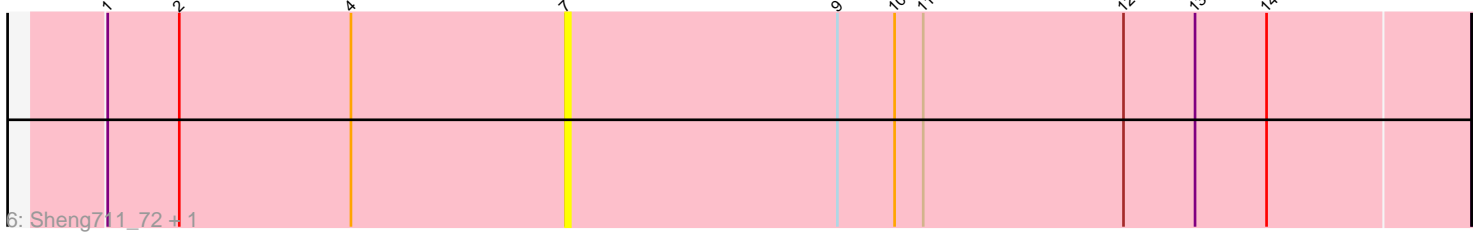
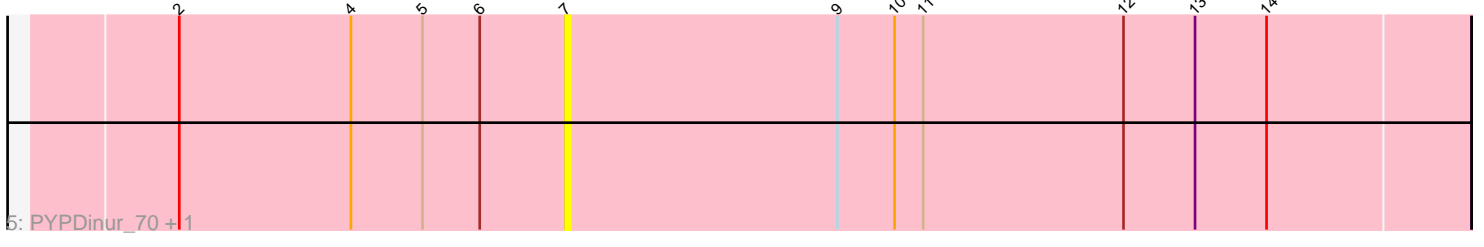
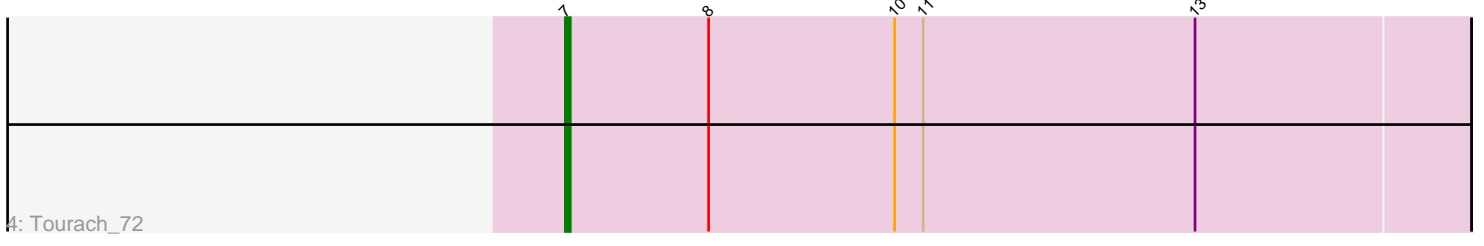
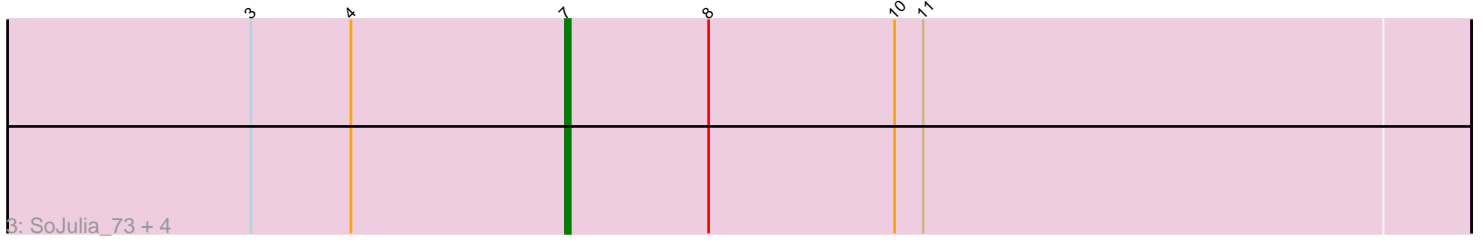
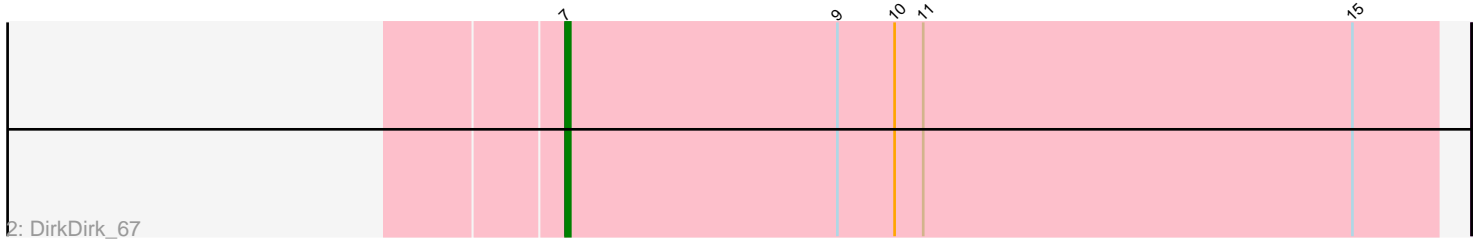
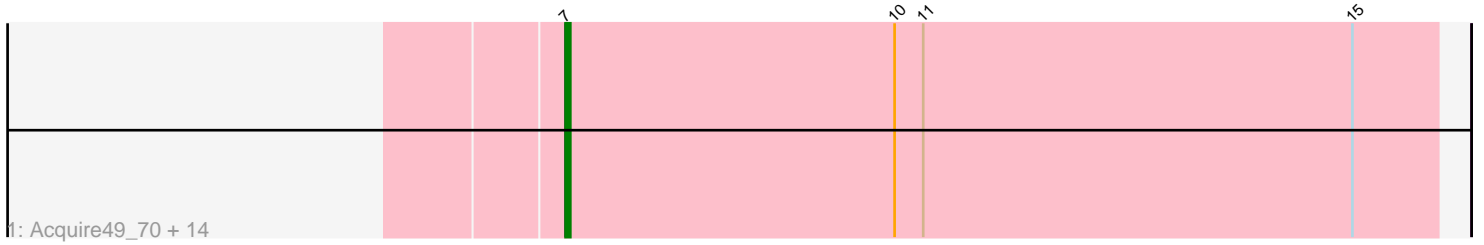


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 205227 Report

This analysis was run 02/22/25 on database version 588.

Pham number 205227 has 26 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Acquire49\_70, JoeDirt\_70, Appletree2\_69, Tyson\_71, Calm\_72, Halena\_68, MAckerman\_68, Zaria\_71, OhShagHennessy\_68, Silverleaf\_70, Rose5\_70, AvadaKedavra\_70, Poochiewood\_69, Enceladus\_67, Wyatt2\_71
- Track 2 : DirkDirk\_67
- Track 3 : SoJulia\_73, DHan\_76, Hafay\_74, Vetrix\_72, Crossroads\_72
- Track 4 : Tourach\_72
- Track 5 : PYPDinur\_70, Douzhi\_72
- Track 6 : Sheng711\_72, BrainDrainer\_72

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

Genes that call this "Most Annotated" start:

- Acquire49\_70, Appletree2\_69, AvadaKedavra\_70, BrainDrainer\_72, Calm\_72, Crossroads\_72, DHan\_76, DirkDirk\_67, Douzhi\_72, Enceladus\_67, Hafay\_74, Halena\_68, JoeDirt\_70, MAckerman\_68, OhShagHennessy\_68, PYPDinur\_70, Poochiewood\_69, Rose5\_70, Sheng711\_72, Silverleaf\_70, SoJulia\_73, Tourach\_72, Tyson\_71, Vetrix\_72, Wyatt2\_71, Zaria\_71,

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

- 

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

- 

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

Start 7:

- Found in 26 of 26 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 18 of 18
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Acquire49\_70 (L1), Appletree2\_69 (L1), AvadaKedavra\_70 (L1), BrainDrainer\_72 (L4), Calm\_72 (L1), Crossroads\_72 (L2), DHan\_76 (L2), DirkDirk\_67 (L1), Douzhi\_72 (L4), Enceladus\_67 (L1), Hafay\_74 (L2), Halena\_68 (L1), JoeDirt\_70 (L1), MAckerman\_68 (L1), OhShagHennessy\_68 (L1), PYPDinur\_70 (L4), Poochiewood\_69 (L1), Rose5\_70 (L1), Sheng711\_72 (L4), Silverleaf\_70 (L1), SoJulia\_73 (L2), Tourach\_72 (L2), Tyson\_71 (L1), Vetrrix\_72 (L2), Wyatt2\_71 (L1), Zaria\_71 (L1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: L4, L2, L1,

Info for manual annotations of cluster L1:

- Start number 7 was manually annotated 15 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 7 was manually annotated 3 times for cluster L2.

### **Gene Information:**

Gene: Acquire49\_70 Start: 47539, Stop: 47721, Start Num: 7

Candidate Starts for Acquire49\_70:

(Start: 7 @47539 has 18 MA's), (10, 47608), (11, 47614), (15, 47704),

Gene: Appletree2\_69 Start: 47154, Stop: 47336, Start Num: 7

Candidate Starts for Appletree2\_69:

(Start: 7 @47154 has 18 MA's), (10, 47223), (11, 47229), (15, 47319),

Gene: AvadaKedavra\_70 Start: 47612, Stop: 47794, Start Num: 7

Candidate Starts for AvadaKedavra\_70:

(Start: 7 @47612 has 18 MA's), (10, 47681), (11, 47687), (15, 47777),

Gene: BrainDrainer\_72 Start: 48423, Stop: 48611, Start Num: 7

Candidate Starts for BrainDrainer\_72:

(1, 48327), (2, 48342), (4, 48378), (Start: 7 @48423 has 18 MA's), (9, 48480), (10, 48492), (11, 48498), (12, 48540), (13, 48555), (14, 48570),

Gene: Calm\_72 Start: 47865, Stop: 48047, Start Num: 7

Candidate Starts for Calm\_72:

(Start: 7 @47865 has 18 MA's), (10, 47934), (11, 47940), (15, 48030),

Gene: Crossroads\_72 Start: 49270, Stop: 49458, Start Num: 7

Candidate Starts for Crossroads\_72:

(3, 49204), (4, 49225), (Start: 7 @49270 has 18 MA's), (8, 49300), (10, 49339), (11, 49345),

Gene: DHan\_76 Start: 49484, Stop: 49672, Start Num: 7

Candidate Starts for DHan\_76:

(3, 49418), (4, 49439), (Start: 7 @49484 has 18 MA's), (8, 49514), (10, 49553), (11, 49559),

Gene: DirkDirk\_67 Start: 46740, Stop: 46922, Start Num: 7

Candidate Starts for DirkDirk\_67:

(Start: 7 @46740 has 18 MA's), (9, 46797), (10, 46809), (11, 46815), (15, 46905),

Gene: Douzhi\_72 Start: 48239, Stop: 48427, Start Num: 7

Candidate Starts for Douzhi\_72:

(2, 48158), (4, 48194), (5, 48209), (6, 48221), (Start: 7 @48239 has 18 MA's), (9, 48296), (10, 48308), (11, 48314), (12, 48356), (13, 48371), (14, 48386),

Gene: Enceladus\_67 Start: 47497, Stop: 47679, Start Num: 7

Candidate Starts for Enceladus\_67:

(Start: 7 @47497 has 18 MA's), (10, 47566), (11, 47572), (15, 47662),

Gene: Hafay\_74 Start: 49299, Stop: 49487, Start Num: 7

Candidate Starts for Hafay\_74:

(3, 49233), (4, 49254), (Start: 7 @49299 has 18 MA's), (8, 49329), (10, 49368), (11, 49374),

Gene: Halena\_68 Start: 46777, Stop: 46959, Start Num: 7

Candidate Starts for Halena\_68:

(Start: 7 @46777 has 18 MA's), (10, 46846), (11, 46852), (15, 46942),

Gene: JoeDirt\_70 Start: 47930, Stop: 48112, Start Num: 7

Candidate Starts for JoeDirt\_70:

(Start: 7 @47930 has 18 MA's), (10, 47999), (11, 48005), (15, 48095),

Gene: MAckerman\_68 Start: 46770, Stop: 46952, Start Num: 7

Candidate Starts for MAckerman\_68:

(Start: 7 @46770 has 18 MA's), (10, 46839), (11, 46845), (15, 46935),

Gene: OhShagHennessy\_68 Start: 46646, Stop: 46828, Start Num: 7

Candidate Starts for OhShagHennessy\_68:

(Start: 7 @46646 has 18 MA's), (10, 46715), (11, 46721), (15, 46811),

Gene: PYPDinur\_70 Start: 48269, Stop: 48457, Start Num: 7

Candidate Starts for PYPDinur\_70:

(2, 48188), (4, 48224), (5, 48239), (6, 48251), (Start: 7 @48269 has 18 MA's), (9, 48326), (10, 48338), (11, 48344), (12, 48386), (13, 48401), (14, 48416),

Gene: Poochiewood\_69 Start: 47938, Stop: 48120, Start Num: 7

Candidate Starts for Poochiewood\_69:

(Start: 7 @47938 has 18 MA's), (10, 48007), (11, 48013), (15, 48103),

Gene: Rose5\_70 Start: 47950, Stop: 48132, Start Num: 7

Candidate Starts for Rose5\_70:

(Start: 7 @47950 has 18 MA's), (10, 48019), (11, 48025), (15, 48115),

Gene: Sheng711\_72 Start: 48277, Stop: 48465, Start Num: 7

Candidate Starts for Sheng711\_72:

(1, 48181), (2, 48196), (4, 48232), (Start: 7 @48277 has 18 MA's), (9, 48334), (10, 48346), (11, 48352), (12, 48394), (13, 48409), (14, 48424),

Gene: Silverleaf\_70 Start: 47400, Stop: 47582, Start Num: 7

Candidate Starts for Silverleaf\_70:

(Start: 7 @47400 has 18 MA's), (10, 47469), (11, 47475), (15, 47565),

Gene: SoJulia\_73 Start: 49857, Stop: 50045, Start Num: 7

Candidate Starts for SoJulia\_73:

(3, 49791), (4, 49812), (Start: 7 @49857 has 18 MA's), (8, 49887), (10, 49926), (11, 49932),

Gene: Tourach\_72 Start: 49495, Stop: 49683, Start Num: 7

Candidate Starts for Tourach\_72:

(Start: 7 @49495 has 18 MA's), (8, 49525), (10, 49564), (11, 49570), (13, 49627),

Gene: Tyson\_71 Start: 47876, Stop: 48058, Start Num: 7

Candidate Starts for Tyson\_71:

(Start: 7 @47876 has 18 MA's), (10, 47945), (11, 47951), (15, 48041),

Gene: Vetrix\_72 Start: 49235, Stop: 49423, Start Num: 7

Candidate Starts for Vetrix\_72:

(3, 49169), (4, 49190), (Start: 7 @49235 has 18 MA's), (8, 49265), (10, 49304), (11, 49310),

Gene: Wyatt2\_71 Start: 47874, Stop: 48056, Start Num: 7

Candidate Starts for Wyatt2\_71:

(Start: 7 @47874 has 18 MA's), (10, 47943), (11, 47949), (15, 48039),

Gene: Zaria\_71 Start: 47330, Stop: 47512, Start Num: 7

Candidate Starts for Zaria\_71:

(Start: 7 @47330 has 18 MA's), (10, 47399), (11, 47405), (15, 47495),