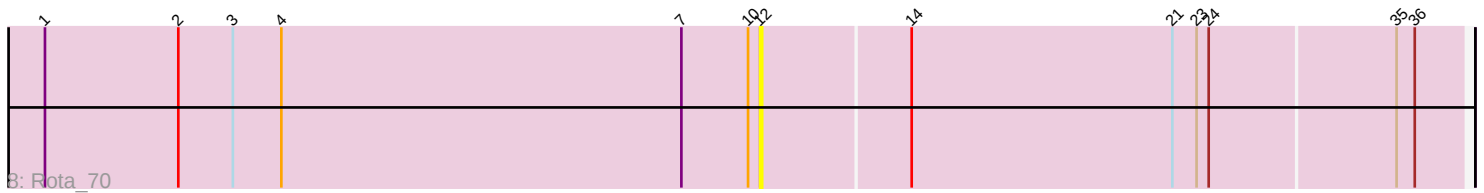
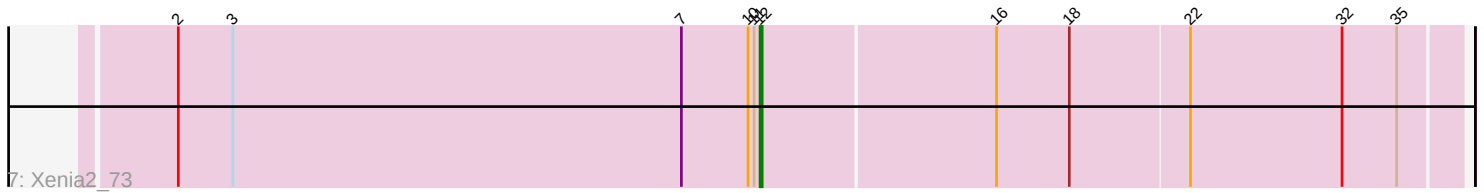
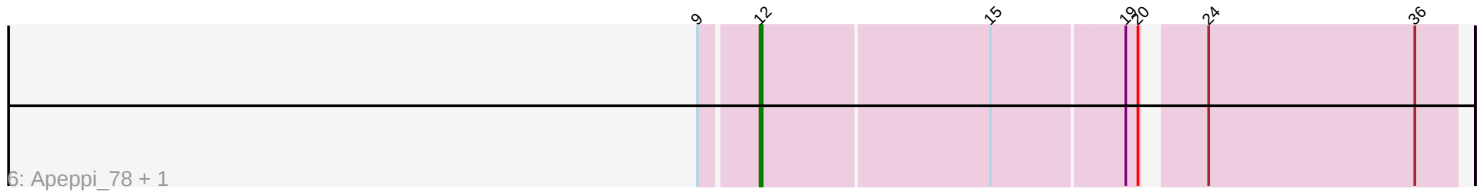
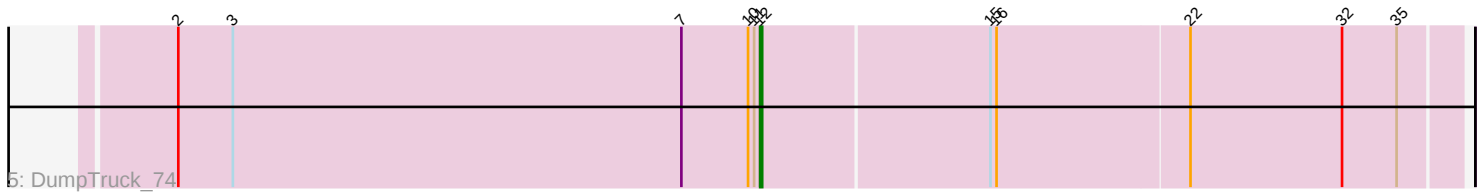
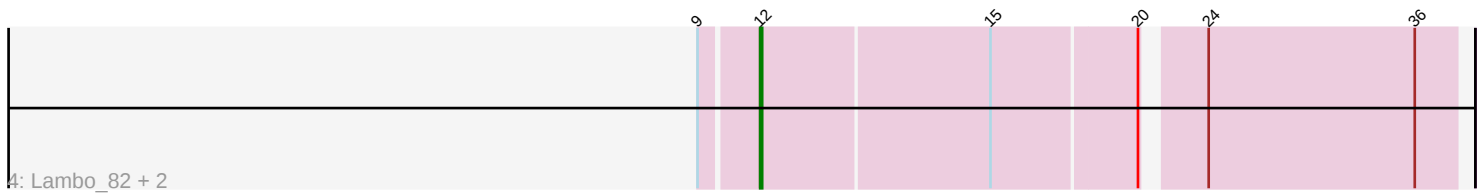
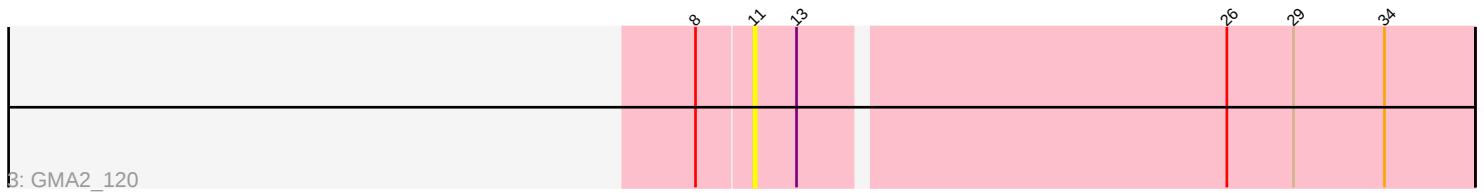
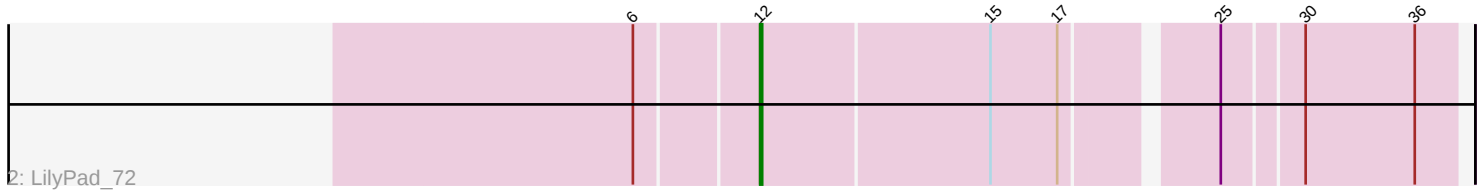
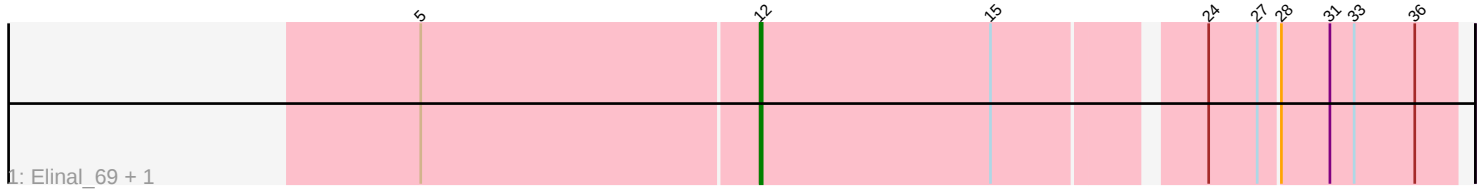


Pham 309729



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 309729 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309729 has 12 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Elinal_69, KayGee_67
- Track 2 : LilyPad_72
- Track 3 : GMA2_120
- Track 4 : Lambo_82, Zany_81, Nettle_84
- Track 5 : DumpTruck_74
- Track 6 : Apeppi_78, LuckyLeo_80
- Track 7 : Xenia2_73
- Track 8 : Rota_70

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

The start number called the most often in the published annotations is 12, it was called in 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apeppi_78, DumpTruck_74, Elinal_69, KayGee_67, Lambo_82, LilyPad_72, LuckyLeo_80, Nettle_84, Rota_70, Xenia2_73, Zany_81,

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

-

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

- GMA2_120,

Summary by start number:

Start 11:

- Found in 3 of 12 (25.0%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: GMA2_120 (DS),

Start 12:

- Found in 11 of 12 (91.7%) of genes in pham

- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apeppi_78 (DV), DumpTruck_74 (DV), Elinal_69 (CT), KayGee_67 (CT), Lambo_82 (DV), LilyPad_72 (DG1), LuckyLeo_80 (DV), Nettle_84 (DV), Rota_70 (DV), Xenia2_73 (DV), Zany_81 (DV),

Summary by clusters:

There are 4 clusters represented in this pham: DV, DG1, DS, CT,

Info for manual annotations of cluster CT:

- Start number 12 was manually annotated 2 times for cluster CT.

Info for manual annotations of cluster DG1:

- Start number 12 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster DV:

- Start number 12 was manually annotated 6 times for cluster DV.

Gene Information:

Gene: Apeppi_78 Start: 56988, Stop: 57314, Start Num: 12

Candidate Starts for Apeppi_78:

(9, 56961), (Start: 12 @56988 has 9 MA's), (15, 57099), (19, 57162), (20, 57168), (24, 57192), (36, 57294),

Gene: DumpTruck_74 Start: 49397, Stop: 49735, Start Num: 12

Candidate Starts for DumpTruck_74:

(2, 49109), (3, 49136), (7, 49358), (10, 49391), (11, 49394), (Start: 12 @49397 has 9 MA's), (15, 49508), (16, 49511), (22, 49604), (32, 49679), (35, 49706),

Gene: Elinal_69 Start: 45368, Stop: 45694, Start Num: 12

Candidate Starts for Elinal_69:

(5, 45203), (Start: 12 @45368 has 9 MA's), (15, 45482), (24, 45575), (27, 45599), (28, 45608), (31, 45632), (33, 45644), (36, 45674),

Gene: GMA2_120 Start: 100528, Stop: 100181, Start Num: 11

Candidate Starts for GMA2_120:

(8, 100555), (11, 100528), (13, 100507), (26, 100303), (29, 100270), (34, 100225),

Gene: KayGee_67 Start: 45367, Stop: 45693, Start Num: 12

Candidate Starts for KayGee_67:

(5, 45202), (Start: 12 @45367 has 9 MA's), (15, 45481), (24, 45574), (27, 45598), (28, 45607), (31, 45631), (33, 45643), (36, 45673),

Gene: Lambo_82 Start: 57330, Stop: 57656, Start Num: 12

Candidate Starts for Lambo_82:

(9, 57303), (Start: 12 @57330 has 9 MA's), (15, 57441), (20, 57510), (24, 57534), (36, 57636),

Gene: LilyPad_72 Start: 53119, Stop: 53439, Start Num: 12

Candidate Starts for LilyPad_72:

(6, 53062), (Start: 12 @53119 has 9 MA's), (15, 53230), (17, 53263), (25, 53329), (30, 53365), (36, 53419),

Gene: LuckyLeo_80 Start: 56988, Stop: 57314, Start Num: 12

Candidate Starts for LuckyLeo_80:

(9, 56961), (Start: 12 @56988 has 9 MA's), (15, 57099), (19, 57162), (20, 57168), (24, 57192), (36, 57294),

Gene: Nettle_84 Start: 57903, Stop: 58229, Start Num: 12

Candidate Starts for Nettle_84:

(9, 57876), (Start: 12 @57903 has 9 MA's), (15, 58014), (20, 58083), (24, 58107), (36, 58209),

Gene: Rota_70 Start: 49958, Stop: 50299, Start Num: 12

Candidate Starts for Rota_70:

(1, 49604), (2, 49670), (3, 49697), (4, 49721), (7, 49919), (10, 49952), (Start: 12 @49958 has 9 MA's), (14, 50030), (21, 50159), (23, 50171), (24, 50177), (35, 50267), (36, 50276),

Gene: Xenia2_73 Start: 49281, Stop: 49619, Start Num: 12

Candidate Starts for Xenia2_73:

(2, 48993), (3, 49020), (7, 49242), (10, 49275), (11, 49278), (Start: 12 @49281 has 9 MA's), (16, 49395), (18, 49431), (22, 49488), (32, 49563), (35, 49590),

Gene: Zany_81 Start: 58103, Stop: 58429, Start Num: 12

Candidate Starts for Zany_81:

(9, 58076), (Start: 12 @58103 has 9 MA's), (15, 58214), (20, 58283), (24, 58307), (36, 58409),