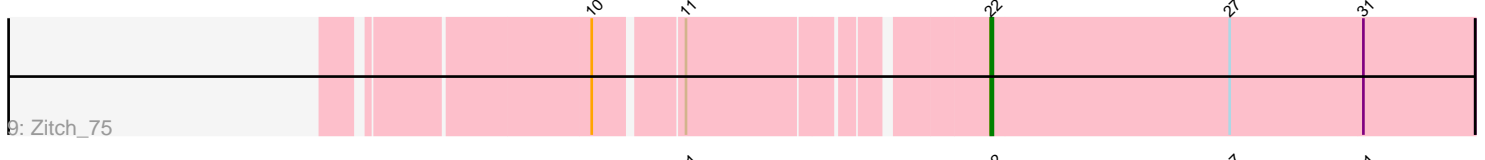
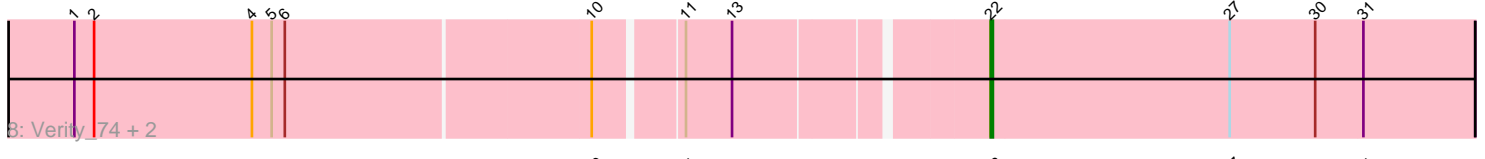
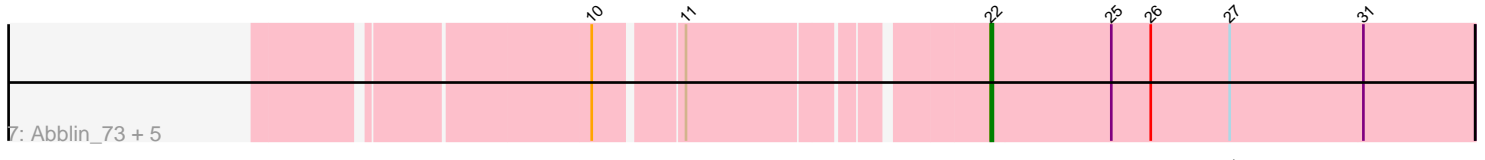
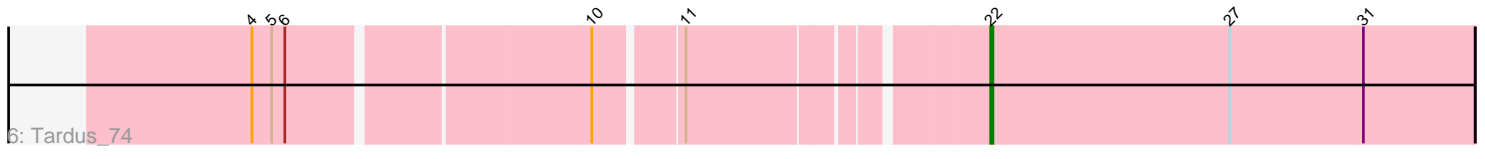
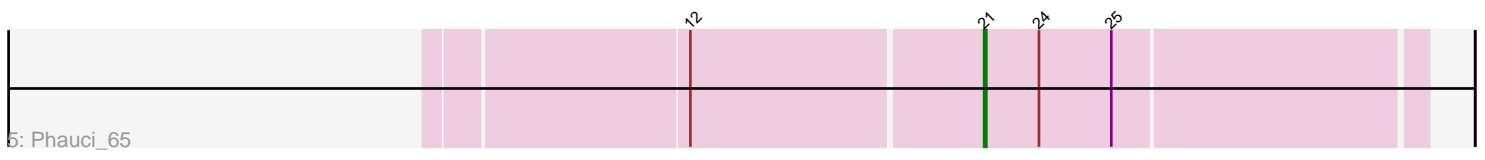
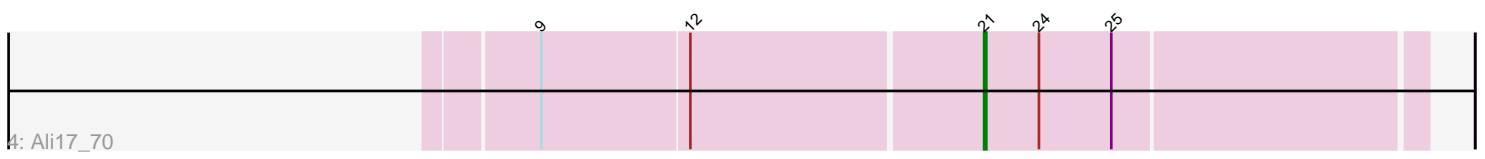
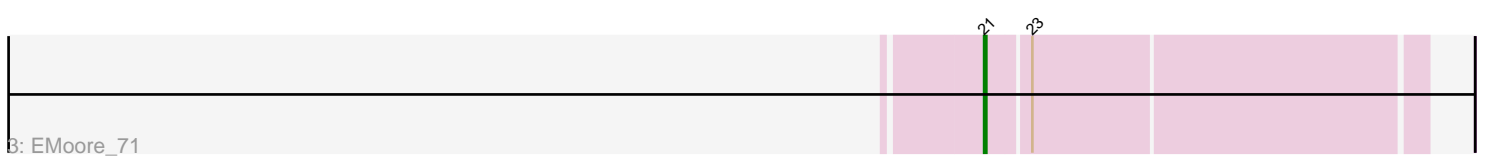
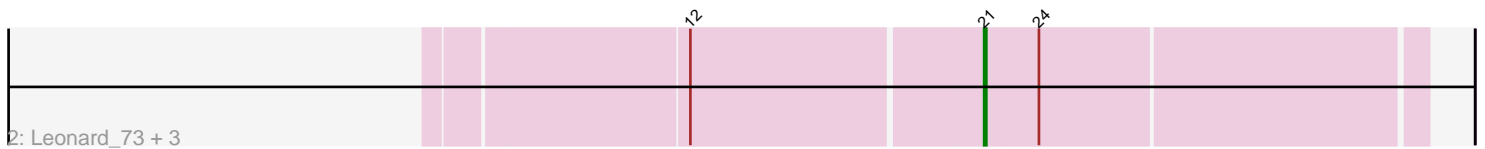
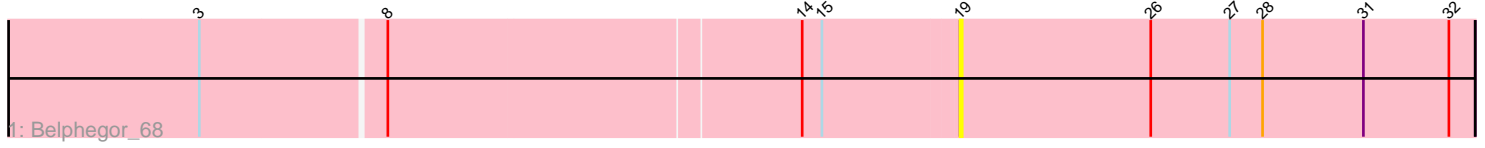


Pham 163935



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 163935 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163935 has 21 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Belphegor_68
- Track 2 : Leonard_73, Phinally_73, Inspectinfecti_74, Hans_74
- Track 3 : EMOore_71
- Track 4 : Ali17_70
- Track 5 : Phauci_65
- Track 6 : Tardus_74
- Track 7 : Abblin_73, APunk_73, Scioto_73, Zipp_74, Natkenzie_73, Sampson_75
- Track 8 : Verity_74, Delrey21_74, DoctorFroggo_74
- Track 9 : Zitch_75
- Track 10 : ViaConlectus_73
- Track 11 : Lilbeanie_75

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

The start number called the most often in the published annotations is 22, it was called in 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk_73, Abblin_73, Delrey21_74, DoctorFroggo_74, Natkenzie_73, Sampson_75, Scioto_73, Tardus_74, Verity_74, ViaConlectus_73, Zipp_74, Zitch_75,

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

-

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

- Ali17_70, Belphegor_68, EMOore_71, Hans_74, Inspectinfecti_74, Leonard_73, Lilbeanie_75, Phauci_65, Phinally_73,

Summary by start number:

Start 18:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Lilbeanie_75 (DE5),

Start 19:

- Found in 1 of 21 (4.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belphegor_68 (DE),

Start 21:

- Found in 7 of 21 (33.3%) of genes in pham
- Manual Annotations of this start: 6 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ali17_70 (DE2), EMoore_71 (DE2), Hans_74 (DE2), Inspectinfecti_74 (DE2), Leonard_73 (DE2), Phauci_65 (DE2), Phinally_73 (DE2),

Start 22:

- Found in 12 of 21 (57.1%) of genes in pham
- Manual Annotations of this start: 9 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk_73 (DE4), Abblin_73 (DE4), Delrey21_74 (DE4), DoctorFroggo_74 (DE4), Natkenzie_73 (DE4), Sampson_75 (DE4), Scioto_73 (DE4), Tardus_74 (DE4), Verity_74 (DE4), ViaConlectus_73 (DE4), Zipp_74 (DE4), Zitch_75 (DE4),

Summary by clusters:

There are 4 clusters represented in this pham: DE2, DE, DE4, DE5,

Info for manual annotations of cluster DE2:

- Start number 21 was manually annotated 6 times for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 22 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 18 was manually annotated 1 time for cluster DE5.

Gene Information:

Gene: APunk_73 Start: 53717, Stop: 53935, Start Num: 22

Candidate Starts for APunk_73:

(10, 53558), (11, 53594), (Start: 22 @53717 has 9 MA's), (25, 53771), (26, 53789), (27, 53825), (31, 53885),

Gene: Abblin_73 Start: 53875, Stop: 54093, Start Num: 22

Candidate Starts for Abblin_73:

(10, 53716), (11, 53752), (Start: 22 @53875 has 9 MA's), (25, 53929), (26, 53947), (27, 53983), (31, 54043),

Gene: Ali17_70 Start: 52881, Stop: 53075, Start Num: 21

Candidate Starts for Ali17_70:

(9, 52686), (12, 52752), (Start: 21 @52881 has 6 MA's), (24, 52905), (25, 52938),

Gene: Belphegor_68 Start: 54091, Stop: 54324, Start Num: 19

Candidate Starts for Belphegor_68:

(3, 53758), (8, 53839), (14, 54022), (15, 54031), (19, 54091), (26, 54178), (27, 54214), (28, 54229),
(31, 54274), (32, 54313),

Gene: Delrey21_74 Start: 55666, Stop: 55884, Start Num: 22

Candidate Starts for Delrey21_74:

(1, 55273), (2, 55282), (4, 55354), (5, 55363), (6, 55369), (10, 55504), (11, 55540), (13, 55561), (Start:
22 @55666 has 9 MA's), (27, 55774), (30, 55813), (31, 55834),

Gene: DoctorFroggo_74 Start: 55666, Stop: 55884, Start Num: 22

Candidate Starts for DoctorFroggo_74:

(1, 55273), (2, 55282), (4, 55354), (5, 55363), (6, 55369), (10, 55504), (11, 55540), (13, 55561), (Start:
22 @55666 has 9 MA's), (27, 55774), (30, 55813), (31, 55834),

Gene: EMoore_71 Start: 54322, Stop: 54513, Start Num: 21

Candidate Starts for EMoore_71:

(Start: 21 @54322 has 6 MA's), (23, 54340),

Gene: Hans_74 Start: 53754, Stop: 53948, Start Num: 21

Candidate Starts for Hans_74:

(12, 53625), (Start: 21 @53754 has 6 MA's), (24, 53778),

Gene: Inspectinfecti_74 Start: 53728, Stop: 53922, Start Num: 21

Candidate Starts for Inspectinfecti_74:

(12, 53599), (Start: 21 @53728 has 6 MA's), (24, 53752),

Gene: Leonard_73 Start: 53791, Stop: 53985, Start Num: 21

Candidate Starts for Leonard_73:

(12, 53662), (Start: 21 @53791 has 6 MA's), (24, 53815),

Gene: Lilbeanie_75 Start: 49588, Stop: 49806, Start Num: 18

Candidate Starts for Lilbeanie_75:

(7, 49321), (16, 49570), (17, 49585), (Start: 18 @49588 has 1 MA's), (20, 49597), (29, 49738),

Gene: Natkenzie_73 Start: 53875, Stop: 54093, Start Num: 22

Candidate Starts for Natkenzie_73:

(10, 53716), (11, 53752), (Start: 22 @53875 has 9 MA's), (25, 53929), (26, 53947), (27, 53983), (31,
54043),

Gene: Phauci_65 Start: 50831, Stop: 51025, Start Num: 21

Candidate Starts for Phauci_65:

(12, 50702), (Start: 21 @50831 has 6 MA's), (24, 50855), (25, 50888),

Gene: Phinally_73 Start: 53788, Stop: 53982, Start Num: 21

Candidate Starts for Phinally_73:

(12, 53659), (Start: 21 @53788 has 6 MA's), (24, 53812),

Gene: Sampson_75 Start: 54026, Stop: 54244, Start Num: 22

Candidate Starts for Sampson_75:

(10, 53867), (11, 53903), (Start: 22 @54026 has 9 MA's), (25, 54080), (26, 54098), (27, 54134), (31, 54194),

Gene: Scioto_73 Start: 53876, Stop: 54094, Start Num: 22

Candidate Starts for Scioto_73:

(10, 53717), (11, 53753), (Start: 22 @53876 has 9 MA's), (25, 53930), (26, 53948), (27, 53984), (31, 54044),

Gene: Tardus_74 Start: 54330, Stop: 54548, Start Num: 22

Candidate Starts for Tardus_74:

(4, 54027), (5, 54036), (6, 54042), (10, 54171), (11, 54207), (Start: 22 @54330 has 9 MA's), (27, 54438), (31, 54498),

Gene: Verity_74 Start: 55666, Stop: 55884, Start Num: 22

Candidate Starts for Verity_74:

(1, 55273), (2, 55282), (4, 55354), (5, 55363), (6, 55369), (10, 55504), (11, 55540), (13, 55561), (Start: 22 @55666 has 9 MA's), (27, 55774), (30, 55813), (31, 55834),

Gene: ViaConlectus_73 Start: 52827, Stop: 53045, Start Num: 22

Candidate Starts for ViaConlectus_73:

(11, 52704), (Start: 22 @52827 has 9 MA's), (27, 52935), (31, 52995),

Gene: Zipp_74 Start: 55254, Stop: 55472, Start Num: 22

Candidate Starts for Zipp_74:

(10, 55095), (11, 55131), (Start: 22 @55254 has 9 MA's), (25, 55308), (26, 55326), (27, 55362), (31, 55422),

Gene: Zitch_75 Start: 53704, Stop: 53922, Start Num: 22

Candidate Starts for Zitch_75:

(10, 53545), (11, 53581), (Start: 22 @53704 has 9 MA's), (27, 53812), (31, 53872),