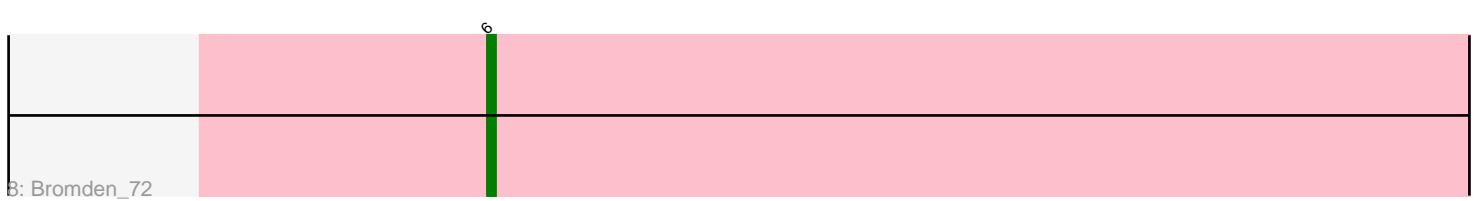
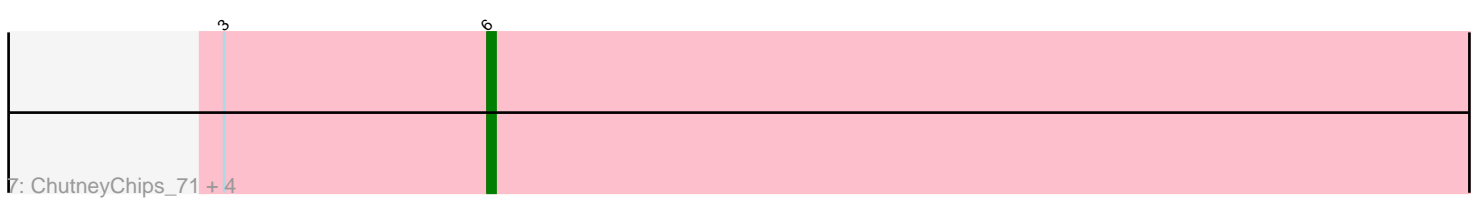
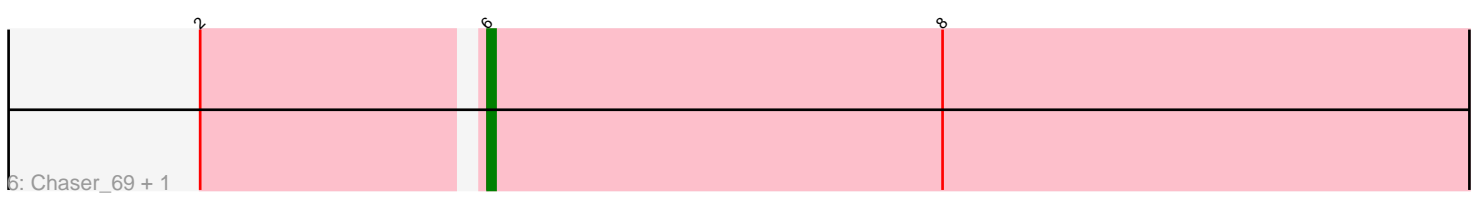
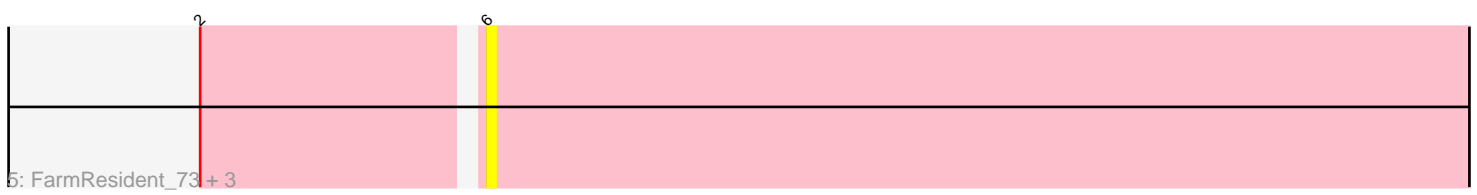
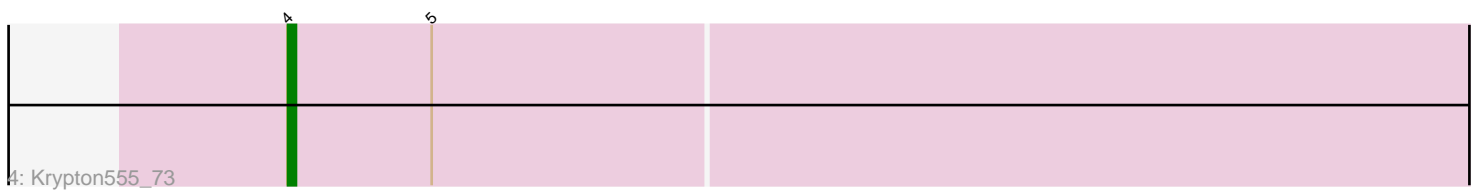
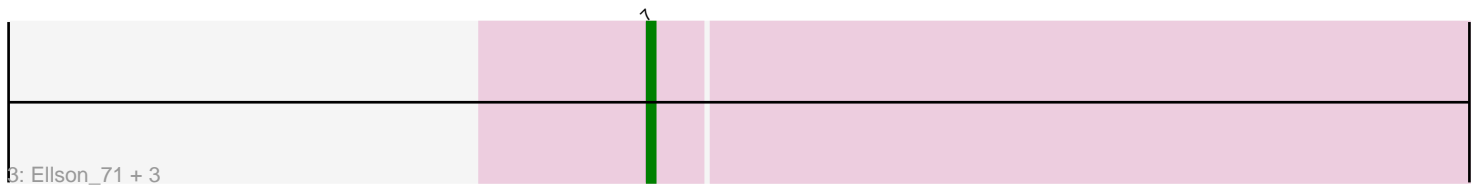
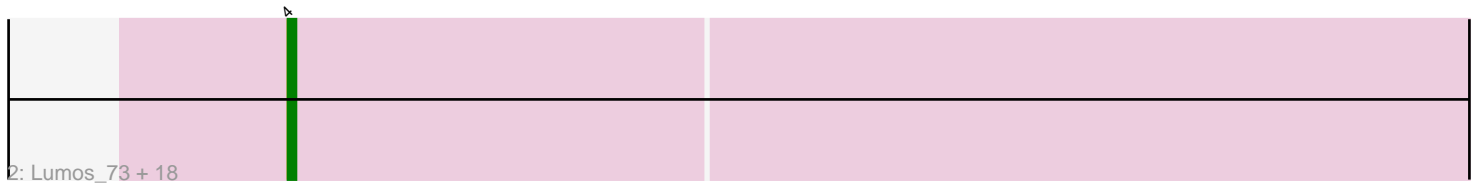
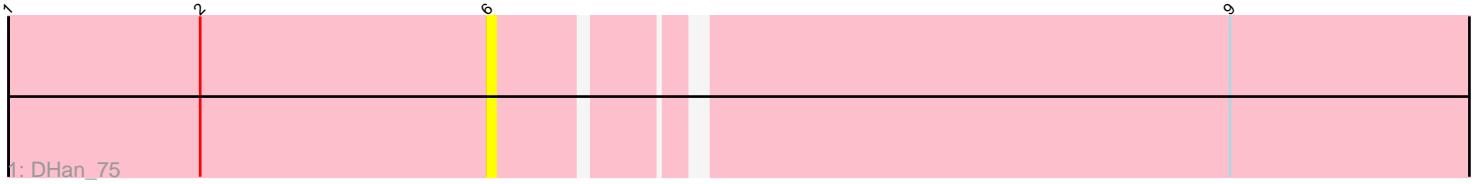


Pham 308929



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 308929 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308929 has 37 members, 12 are drafts.

Phages represented in each track:

- Track 1 : DHan_75
- Track 2 : Lumos_73, Finnry_72, Whirlwind_72, Jobypre_72, Red305_73, Bellis_72, Lolly9_71, LiyuLake_71, Kingsolomon_70, TriFive_73, Nicholas_70, Moostard_70, MiniMac_76, Clautastrophe_70, Snenia_71, Samty_71, Jubie_71, MiniLon_76, MsGreen_72
- Track 3 : Ellson_71, BourbonZero_73, KirDoubleO7_70, DuncansLeg_72
- Track 4 : Krypton555_73
- Track 5 : FarmResident_73, PYPDinur_69, Quby_71, Douzhi_71
- Track 6 : Chaser_69, DyoEdafos_75
- Track 7 : ChutneyChips_71, Sheng711_71, BrainDrainer_71, Douge_71, Kropertea_69
- Track 8 : Bromden_72

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

The start number called the most often in the published annotations is 4, it was called in 18 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bellis_72, Clautastrophe_70, Finnry_72, Jobypre_72, Jubie_71, Kingsolomon_70, Krypton555_73, LiyuLake_71, Lolly9_71, Lumos_73, MiniLon_76, MiniMac_76, Moostard_70, MsGreen_72, Nicholas_70, Red305_73, Samty_71, Snenia_71, TriFive_73, Whirlwind_72,

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

-

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

- BourbonZero_73, BrainDrainer_71, Bromden_72, Chaser_69, ChutneyChips_71, DHan_75, Douge_71, Douzhi_71, DuncansLeg_72, DyoEdafos_75, Ellson_71, FarmResident_73, KirDoubleO7_70, Kropertea_69, PYPDinur_69, Quby_71, Sheng711_71,

Summary by start number:

Start 4:

- Found in 20 of 37 (54.1%) of genes in pham
- Manual Annotations of this start: 18 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bellis_72 (L3), Clautastrophe_70 (L3), Finnry_72 (L3), Jobypre_72 (L3), Jubie_71 (L3), Kingsolomon_70 (L3), Krypton555_73 (L3), LiyuLake_71 (L3), Lolly9_71 (L3), Lumos_73 (L3), MiniLon_76 (L3), MiniMac_76 (L3), Moostard_70 (L3), MsGreen_72 (L3), Nicholas_70 (L3), Red305_73 (L3), Samty_71 (L3), Snenia_71 (L3), TriFive_73 (L3), Whirlwind_72 (L3),

Start 6:

- Found in 13 of 37 (35.1%) of genes in pham
- Manual Annotations of this start: 6 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrainDrainer_71 (L4), Bromden_72 (L4), Chaser_69 (L4), ChutneyChips_71 (L4), DHan_75 (L2), Douge_71 (L4), Douzhi_71 (L4), DyoEdafos_75 (L4), FarmResident_73 (L4), Kropertea_69 (L4), PYPDinur_69 (L4), Quby_71 (L4), Sheng711_71 (L4),

Start 7:

- Found in 4 of 37 (10.8%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BourbonZero_73 (L3), DuncansLeg_72 (L3), Ellson_71 (L3), KirDoubleO7_70 (L3),

Summary by clusters:

There are 3 clusters represented in this pham: L4, L2, L3,

Info for manual annotations of cluster L3:

- Start number 4 was manually annotated 18 times for cluster L3.
- Start number 7 was manually annotated 1 time for cluster L3.

Info for manual annotations of cluster L4:

- Start number 6 was manually annotated 6 times for cluster L4.

Gene Information:

Gene: Bellis_72 Start: 49611, Stop: 49769, Start Num: 4

Candidate Starts for Bellis_72:
(Start: 4 @49611 has 18 MA's),

Gene: BourbonZero_73 Start: 49650, Stop: 49763, Start Num: 7

Candidate Starts for BourbonZero_73:
(Start: 7 @49650 has 1 MA's),

Gene: BrainDrainer_71 Start: 48296, Stop: 48433, Start Num: 6

Candidate Starts for BrainDrainer_71:

(3, 48263), (Start: 6 @48296 has 6 MA's),

Gene: Bromden_72 Start: 49042, Stop: 49176, Start Num: 6

Candidate Starts for Bromden_72:

(Start: 6 @49042 has 6 MA's),

Gene: Chaser_69 Start: 48062, Stop: 48196, Start Num: 6

Candidate Starts for Chaser_69:

(2, 48029), (Start: 6 @48062 has 6 MA's), (8, 48119),

Gene: ChutneyChips_71 Start: 48327, Stop: 48461, Start Num: 6

Candidate Starts for ChutneyChips_71:

(3, 48294), (Start: 6 @48327 has 6 MA's),

Gene: Clautastrophe_70 Start: 49608, Stop: 49766, Start Num: 4

Candidate Starts for Clautastrophe_70:

(Start: 4 @49608 has 18 MA's),

Gene: DHan_75 Start: 49363, Stop: 49494, Start Num: 6

Candidate Starts for DHan_75:

(1, 49303), (2, 49327), (Start: 6 @49363 has 6 MA's), (9, 49450),

Gene: Douge_71 Start: 48065, Stop: 48199, Start Num: 6

Candidate Starts for Douge_71:

(3, 48032), (Start: 6 @48065 has 6 MA's),

Gene: Douzhi_71 Start: 48112, Stop: 48249, Start Num: 6

Candidate Starts for Douzhi_71:

(2, 48079), (Start: 6 @48112 has 6 MA's),

Gene: DuncansLeg_72 Start: 49638, Stop: 49751, Start Num: 7

Candidate Starts for DuncansLeg_72:

(Start: 7 @49638 has 1 MA's),

Gene: DyoEdafos_75 Start: 48557, Stop: 48688, Start Num: 6

Candidate Starts for DyoEdafos_75:

(2, 48524), (Start: 6 @48557 has 6 MA's), (8, 48614),

Gene: Ellson_71 Start: 49953, Stop: 50066, Start Num: 7

Candidate Starts for Ellson_71:

(Start: 7 @49953 has 1 MA's),

Gene: FarmResident_73 Start: 48057, Stop: 48191, Start Num: 6

Candidate Starts for FarmResident_73:

(2, 48024), (Start: 6 @48057 has 6 MA's),

Gene: Finnry_72 Start: 49872, Stop: 50030, Start Num: 4

Candidate Starts for Finnry_72:

(Start: 4 @49872 has 18 MA's),

Gene: Jobypre_72 Start: 49608, Stop: 49766, Start Num: 4

Candidate Starts for Jobypre_72:

(Start: 4 @49608 has 18 MA's),

Gene: Jubie_71 Start: 49743, Stop: 49901, Start Num: 4
Candidate Starts for Jubie_71:
(Start: 4 @49743 has 18 MA's),

Gene: Kingsolomon_70 Start: 49615, Stop: 49773, Start Num: 4
Candidate Starts for Kingsolomon_70:
(Start: 4 @49615 has 18 MA's),

Gene: KirDoubleO7_70 Start: 49640, Stop: 49753, Start Num: 7
Candidate Starts for KirDoubleO7_70:
(Start: 7 @49640 has 1 MA's),

Gene: Kropertea_69 Start: 48243, Stop: 48377, Start Num: 6
Candidate Starts for Kropertea_69:
(3, 48210), (Start: 6 @48243 has 6 MA's),

Gene: Krypton555_73 Start: 49822, Stop: 49980, Start Num: 4
Candidate Starts for Krypton555_73:
(Start: 4 @49822 has 18 MA's), (5, 49840),

Gene: LiyuLake_71 Start: 49656, Stop: 49814, Start Num: 4
Candidate Starts for LiyuLake_71:
(Start: 4 @49656 has 18 MA's),

Gene: Lolly9_71 Start: 49728, Stop: 49886, Start Num: 4
Candidate Starts for Lolly9_71:
(Start: 4 @49728 has 18 MA's),

Gene: Lumos_73 Start: 49605, Stop: 49763, Start Num: 4
Candidate Starts for Lumos_73:
(Start: 4 @49605 has 18 MA's),

Gene: MiniLon_76 Start: 49729, Stop: 49887, Start Num: 4
Candidate Starts for MiniLon_76:
(Start: 4 @49729 has 18 MA's),

Gene: MiniMac_76 Start: 49727, Stop: 49885, Start Num: 4
Candidate Starts for MiniMac_76:
(Start: 4 @49727 has 18 MA's),

Gene: Moostard_70 Start: 49611, Stop: 49769, Start Num: 4
Candidate Starts for Moostard_70:
(Start: 4 @49611 has 18 MA's),

Gene: MsGreen_72 Start: 49608, Stop: 49766, Start Num: 4
Candidate Starts for MsGreen_72:
(Start: 4 @49608 has 18 MA's),

Gene: Nicholas_70 Start: 49615, Stop: 49773, Start Num: 4
Candidate Starts for Nicholas_70:
(Start: 4 @49615 has 18 MA's),

Gene: PYPDinur_69 Start: 48142, Stop: 48279, Start Num: 6
Candidate Starts for PYPDinur_69:
(2, 48109), (Start: 6 @48142 has 6 MA's),

Gene: Quby_71 Start: 48022, Stop: 48156, Start Num: 6
Candidate Starts for Quby_71:
(2, 47989), (Start: 6 @48022 has 6 MA's),

Gene: Red305_73 Start: 49608, Stop: 49766, Start Num: 4
Candidate Starts for Red305_73:
(Start: 4 @49608 has 18 MA's),

Gene: Samty_71 Start: 49616, Stop: 49774, Start Num: 4
Candidate Starts for Samty_71:
(Start: 4 @49616 has 18 MA's),

Gene: Sheng711_71 Start: 48150, Stop: 48287, Start Num: 6
Candidate Starts for Sheng711_71:
(3, 48117), (Start: 6 @48150 has 6 MA's),

Gene: Snenia_71 Start: 49609, Stop: 49767, Start Num: 4
Candidate Starts for Snenia_71:
(Start: 4 @49609 has 18 MA's),

Gene: TriFive_73 Start: 49608, Stop: 49766, Start Num: 4
Candidate Starts for TriFive_73:
(Start: 4 @49608 has 18 MA's),

Gene: Whirlwind_72 Start: 49702, Stop: 49860, Start Num: 4
Candidate Starts for Whirlwind_72:
(Start: 4 @49702 has 18 MA's),