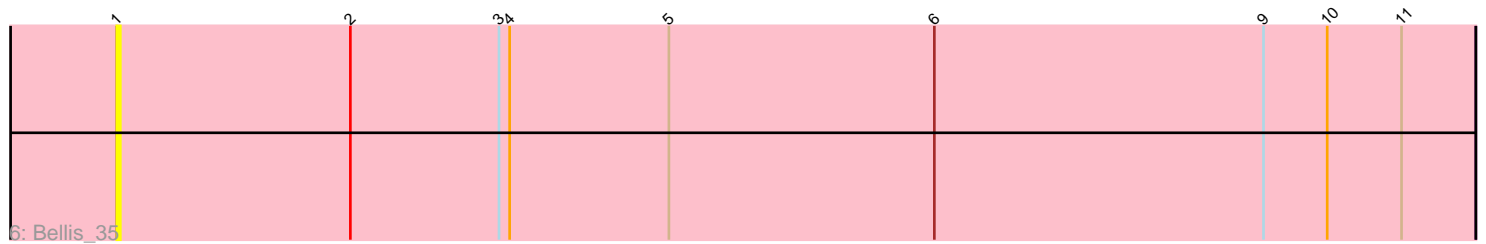
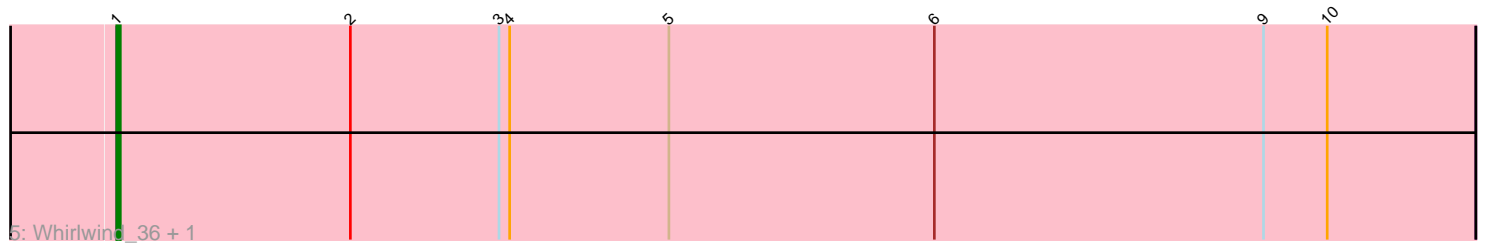
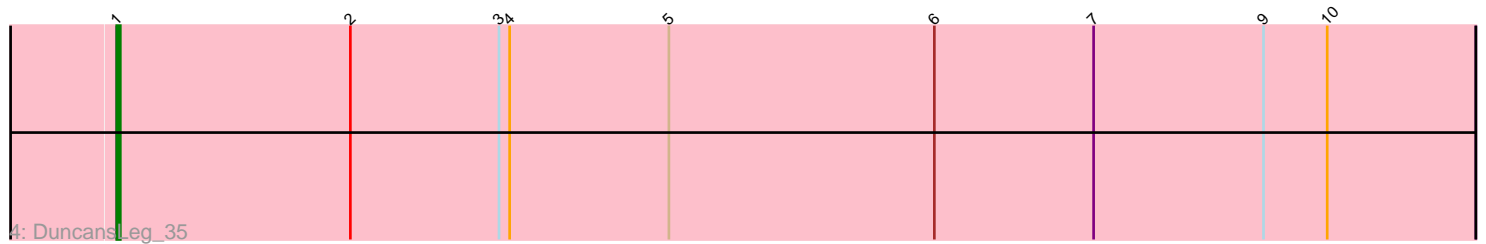
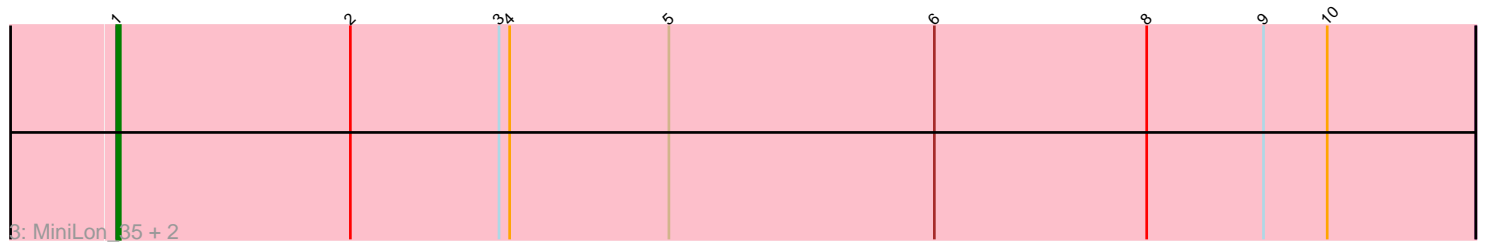
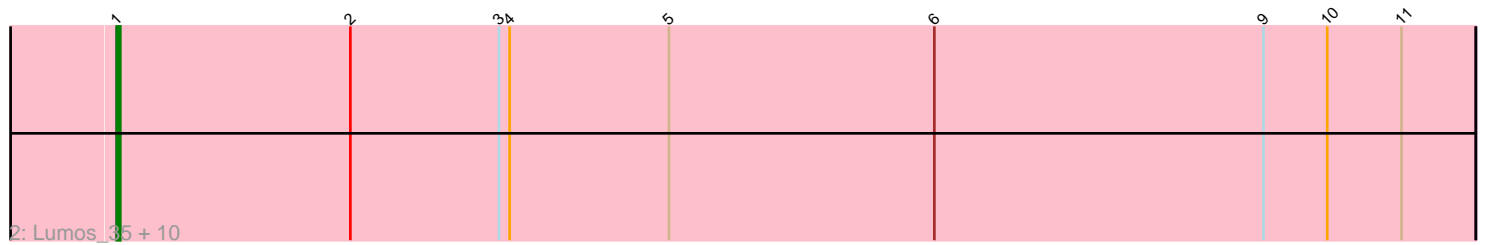


Pham 4337



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 4337 Report

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

Pham number 4337 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Ellson_35
- Track 2 : Lumos_35, Jubie_35, Kingsolomon_35, Samty_35, Jobypre_35, MsGreen_35, Clautastrophe_35, Snenia_35, Nicholas_35, Moostard_35, Finnry_35
- Track 3 : MiniLon_35, MiniMac_35, Lolly9_35
- Track 4 : DuncansLeg_35
- Track 5 : Whirlwind_36, Krypton555_35
- Track 6 : Bellis_35

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

The start number called the most often in the published annotations is 1, it was called in 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bellis_35, Clautastrophe_35, DuncansLeg_35, Ellson_35, Finnry_35, Jobypre_35, Jubie_35, Kingsolomon_35, Krypton555_35, Lolly9_35, Lumos_35, MiniLon_35, MiniMac_35, Moostard_35, MsGreen_35, Nicholas_35, Samty_35, Snenia_35, Whirlwind_36,

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 1:

- Found in 19 of 19 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bellis_35 (L3), Clautastrophe_35 (L3), DuncansLeg_35 (L3), Ellson_35 (L3), Finnry_35 (L3), Jobypre_35 (L3), Jubie_35 (L3), Kingsolomon_35 (L3), Krypton555_35 (L3), Lolly9_35 (L3), Lumos_35 (L3),

MiniLon_35 (L3), MiniMac_35 (L3), Moostard_35 (L3), MsGreen_35 (L3),
Nicholas_35 (L3), Samty_35 (L3), Snenia_35 (L3), Whirlwind_36 (L3),

Summary by clusters:

There is one cluster represented in this pham: L3

Info for manual annotations of cluster L3:

- Start number 1 was manually annotated 16 times for cluster L3.

Gene Information:

Gene: Bellis_35 Start: 31392, Stop: 31009, Start Num: 1

Candidate Starts for Bellis_35:

(Start: 1 @31392 has 16 MA's), (2, 31326), (3, 31284), (4, 31281), (5, 31236), (6, 31161), (9, 31068),
(10, 31050), (11, 31029),

Gene: Clautastrophe_35 Start: 31391, Stop: 31008, Start Num: 1

Candidate Starts for Clautastrophe_35:

(Start: 1 @31391 has 16 MA's), (2, 31325), (3, 31283), (4, 31280), (5, 31235), (6, 31160), (9, 31067),
(10, 31049), (11, 31028),

Gene: DuncansLeg_35 Start: 31379, Stop: 30996, Start Num: 1

Candidate Starts for DuncansLeg_35:

(Start: 1 @31379 has 16 MA's), (2, 31313), (3, 31271), (4, 31268), (5, 31223), (6, 31148), (7, 31103),
(9, 31055), (10, 31037),

Gene: Ellson_35 Start: 31355, Stop: 30972, Start Num: 1

Candidate Starts for Ellson_35:

(Start: 1 @31355 has 16 MA's), (2, 31289), (3, 31247), (4, 31244), (5, 31199), (6, 31124), (10, 31013),

Gene: Finnry_35 Start: 31394, Stop: 31011, Start Num: 1

Candidate Starts for Finnry_35:

(Start: 1 @31394 has 16 MA's), (2, 31328), (3, 31286), (4, 31283), (5, 31238), (6, 31163), (9, 31070),
(10, 31052), (11, 31031),

Gene: Jobypre_35 Start: 31391, Stop: 31008, Start Num: 1

Candidate Starts for Jobypre_35:

(Start: 1 @31391 has 16 MA's), (2, 31325), (3, 31283), (4, 31280), (5, 31235), (6, 31160), (9, 31067),
(10, 31049), (11, 31028),

Gene: Jubie_35 Start: 31392, Stop: 31009, Start Num: 1

Candidate Starts for Jubie_35:

(Start: 1 @31392 has 16 MA's), (2, 31326), (3, 31284), (4, 31281), (5, 31236), (6, 31161), (9, 31068),
(10, 31050), (11, 31029),

Gene: Kingsolomon_35 Start: 31391, Stop: 31008, Start Num: 1

Candidate Starts for Kingsolomon_35:

(Start: 1 @31391 has 16 MA's), (2, 31325), (3, 31283), (4, 31280), (5, 31235), (6, 31160), (9, 31067),
(10, 31049), (11, 31028),

Gene: Krypton555_35 Start: 31297, Stop: 30914, Start Num: 1

Candidate Starts for Krypton555_35:

(Start: 1 @31297 has 16 MA's), (2, 31231), (3, 31189), (4, 31186), (5, 31141), (6, 31066), (9, 30973), (10, 30955),

Gene: Lolly9_35 Start: 31164, Stop: 30781, Start Num: 1

Candidate Starts for Lolly9_35:

(Start: 1 @31164 has 16 MA's), (2, 31098), (3, 31056), (4, 31053), (5, 31008), (6, 30933), (8, 30873), (9, 30840), (10, 30822),

Gene: Lumos_35 Start: 31388, Stop: 31005, Start Num: 1

Candidate Starts for Lumos_35:

(Start: 1 @31388 has 16 MA's), (2, 31322), (3, 31280), (4, 31277), (5, 31232), (6, 31157), (9, 31064), (10, 31046), (11, 31025),

Gene: MiniLon_35 Start: 31165, Stop: 30782, Start Num: 1

Candidate Starts for MiniLon_35:

(Start: 1 @31165 has 16 MA's), (2, 31099), (3, 31057), (4, 31054), (5, 31009), (6, 30934), (8, 30874), (9, 30841), (10, 30823),

Gene: MiniMac_35 Start: 31162, Stop: 30779, Start Num: 1

Candidate Starts for MiniMac_35:

(Start: 1 @31162 has 16 MA's), (2, 31096), (3, 31054), (4, 31051), (5, 31006), (6, 30931), (8, 30871), (9, 30838), (10, 30820),

Gene: Moostard_35 Start: 31393, Stop: 31010, Start Num: 1

Candidate Starts for Moostard_35:

(Start: 1 @31393 has 16 MA's), (2, 31327), (3, 31285), (4, 31282), (5, 31237), (6, 31162), (9, 31069), (10, 31051), (11, 31030),

Gene: MsGreen_35 Start: 31391, Stop: 31008, Start Num: 1

Candidate Starts for MsGreen_35:

(Start: 1 @31391 has 16 MA's), (2, 31325), (3, 31283), (4, 31280), (5, 31235), (6, 31160), (9, 31067), (10, 31049), (11, 31028),

Gene: Nicholas_35 Start: 31391, Stop: 31008, Start Num: 1

Candidate Starts for Nicholas_35:

(Start: 1 @31391 has 16 MA's), (2, 31325), (3, 31283), (4, 31280), (5, 31235), (6, 31160), (9, 31067), (10, 31049), (11, 31028),

Gene: Samty_35 Start: 31392, Stop: 31009, Start Num: 1

Candidate Starts for Samty_35:

(Start: 1 @31392 has 16 MA's), (2, 31326), (3, 31284), (4, 31281), (5, 31236), (6, 31161), (9, 31068), (10, 31050), (11, 31029),

Gene: Snenia_35 Start: 31392, Stop: 31009, Start Num: 1

Candidate Starts for Snenia_35:

(Start: 1 @31392 has 16 MA's), (2, 31326), (3, 31284), (4, 31281), (5, 31236), (6, 31161), (9, 31068), (10, 31050), (11, 31029),

Gene: Whirlwind_36 Start: 31138, Stop: 30755, Start Num: 1

Candidate Starts for Whirlwind_36:

(Start: 1 @31138 has 16 MA's), (2, 31072), (3, 31030), (4, 31027), (5, 30982), (6, 30907), (9, 30814),
(10, 30796),