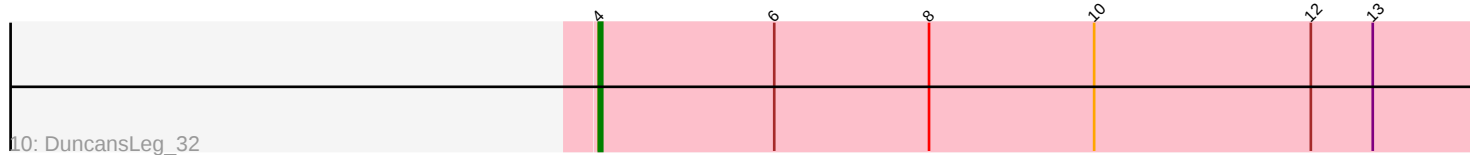
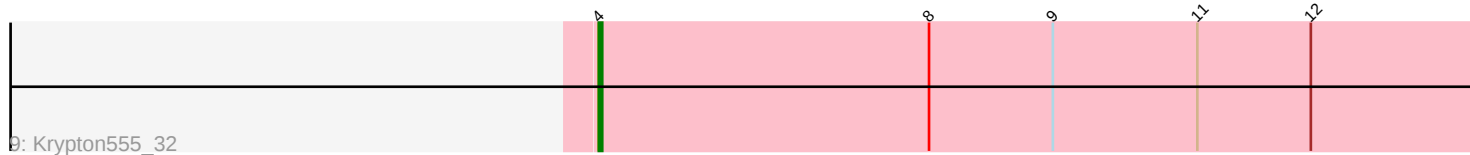
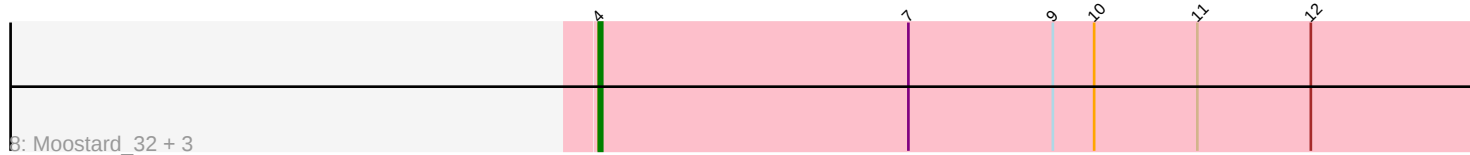
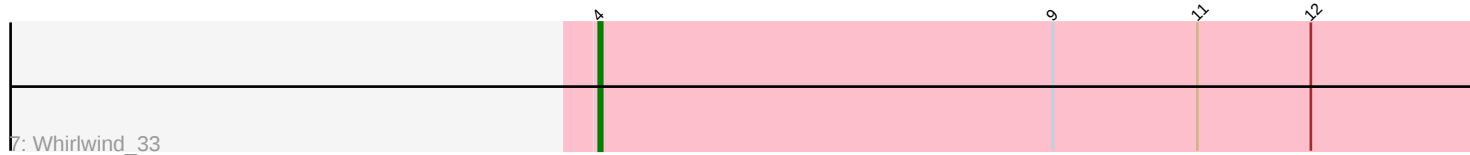
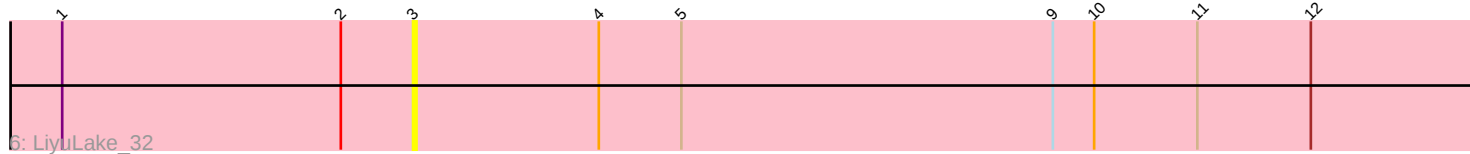
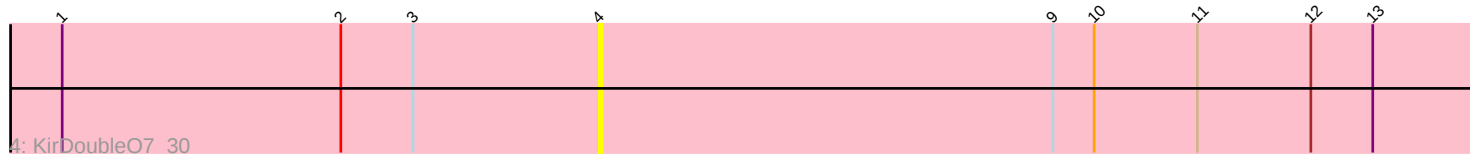
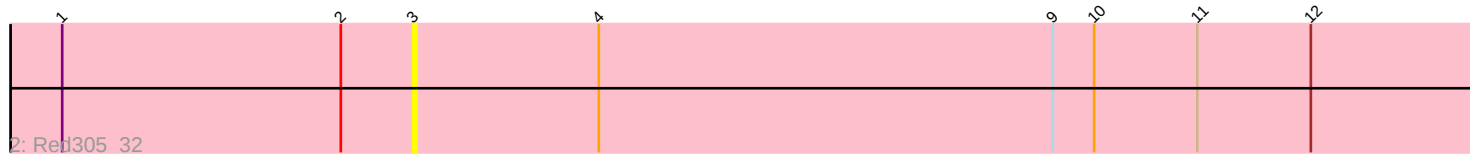
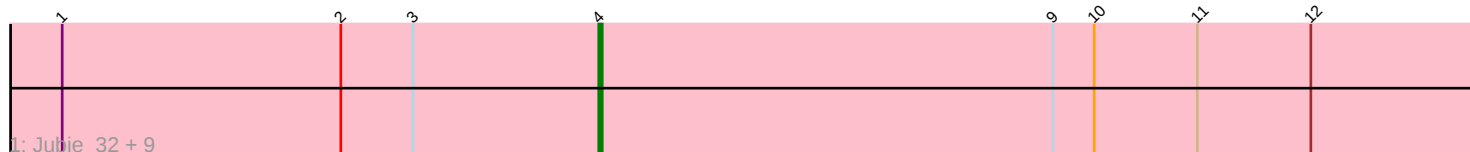


Pham 327426



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 327426 Report

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

Pham number 327426 has 24 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Jubie_32, MsGreen_32, Nicholas_32, Jobypre_32, BourbonZero_31, Kingsolomon_32, Clautastrophe_32, TriFive_32, Snenia_32, Lumos_32
- Track 2 : Red305_32
- Track 3 : Ellson_32
- Track 4 : KirDoubleO7_30
- Track 5 : Lolly9_32, MiniLon_32, MiniMac_32
- Track 6 : LiyuLake_32
- Track 7 : Whirlwind_33
- Track 8 : Moostard_32, Samty_32, Bellis_32, Finnry_32
- Track 9 : Krypton555_32
- Track 10 : DuncansLeg_32

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 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bellis_32, BourbonZero_31, Clautastrophe_32, DuncansLeg_32, Ellson_32, Finnry_32, Jobypre_32, Jubie_32, Kingsolomon_32, KirDoubleO7_30, Krypton555_32, Lolly9_32, Lumos_32, MiniLon_32, MiniMac_32, Moostard_32, MsGreen_32, Nicholas_32, Samty_32, Snenia_32, TriFive_32, Whirlwind_33,

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

- LiyuLake_32, Red305_32,

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

•

Summary by start number:

Start 3:

- Found in 14 of 24 (58.3%) of genes in pham
- No Manual Annotations of this start.

- Called 14.3% of time when present
- Phage (with cluster) where this start called: LiyuLake_32 (L3), Red305_32 (L3),

Start 4:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Bellis_32 (L3), BourbonZero_31 (L3), Clautastrophe_32 (L3), DuncansLeg_32 (L3), Ellson_32 (L3), Finnry_32 (L3), Jobypre_32 (L3), Jubie_32 (L3), Kingsolomon_32 (L3), KirDoubleO7_30 (L3), Krypton555_32 (L3), Lolly9_32 (L3), Lumos_32 (L3), MiniLon_32 (L3), MiniMac_32 (L3), Moostard_32 (L3), MsGreen_32 (L3), Nicholas_32 (L3), Samty_32 (L3), Snenia_32 (L3), TriFive_32 (L3), Whirlwind_33 (L3),

Summary by clusters:

There is one cluster represented in this pham: L3

Info for manual annotations of cluster L3:

- Start number 4 was manually annotated 19 times for cluster L3.

Gene Information:

Gene: Bellis_32 Start: 29638, Stop: 29363, Start Num: 4

Candidate Starts for Bellis_32:

(Start: 4 @29638 has 19 MA's), (7, 29548), (9, 29506), (10, 29494), (11, 29464), (12, 29431),

Gene: BourbonZero_31 Start: 29588, Stop: 29313, Start Num: 4

Candidate Starts for BourbonZero_31:

(1, 29744), (2, 29663), (3, 29642), (Start: 4 @29588 has 19 MA's), (9, 29456), (10, 29444), (11, 29414), (12, 29381),

Gene: Clautastrophe_32 Start: 29636, Stop: 29361, Start Num: 4

Candidate Starts for Clautastrophe_32:

(1, 29792), (2, 29711), (3, 29690), (Start: 4 @29636 has 19 MA's), (9, 29504), (10, 29492), (11, 29462), (12, 29429),

Gene: DuncansLeg_32 Start: 29624, Stop: 29349, Start Num: 4

Candidate Starts for DuncansLeg_32:

(Start: 4 @29624 has 19 MA's), (6, 29573), (8, 29528), (10, 29480), (12, 29417), (13, 29399),

Gene: Ellson_32 Start: 29600, Stop: 29325, Start Num: 4

Candidate Starts for Ellson_32:

(1, 29756), (2, 29675), (3, 29654), (Start: 4 @29600 has 19 MA's), (5, 29576), (9, 29468), (10, 29456), (11, 29426), (12, 29393),

Gene: Finnry_32 Start: 29640, Stop: 29365, Start Num: 4

Candidate Starts for Finnry_32:

(Start: 4 @29640 has 19 MA's), (7, 29550), (9, 29508), (10, 29496), (11, 29466), (12, 29433),

Gene: Jobypre_32 Start: 29636, Stop: 29361, Start Num: 4

Candidate Starts for Jobypre_32:

(1, 29792), (2, 29711), (3, 29690), (Start: 4 @29636 has 19 MA's), (9, 29504), (10, 29492), (11, 29462), (12, 29429),

Gene: Jubie_32 Start: 29637, Stop: 29362, Start Num: 4

Candidate Starts for Jubie_32:

(1, 29793), (2, 29712), (3, 29691), (Start: 4 @29637 has 19 MA's), (9, 29505), (10, 29493), (11, 29463), (12, 29430),

Gene: Kingsolomon_32 Start: 29636, Stop: 29361, Start Num: 4

Candidate Starts for Kingsolomon_32:

(1, 29792), (2, 29711), (3, 29690), (Start: 4 @29636 has 19 MA's), (9, 29504), (10, 29492), (11, 29462), (12, 29429),

Gene: KirDoubleO7_30 Start: 29633, Stop: 29358, Start Num: 4

Candidate Starts for KirDoubleO7_30:

(1, 29789), (2, 29708), (3, 29687), (Start: 4 @29633 has 19 MA's), (9, 29501), (10, 29489), (11, 29459), (12, 29426), (13, 29408),

Gene: Krypton555_32 Start: 29543, Stop: 29268, Start Num: 4

Candidate Starts for Krypton555_32:

(Start: 4 @29543 has 19 MA's), (8, 29447), (9, 29411), (11, 29369), (12, 29336),

Gene: LiyuLake_32 Start: 29645, Stop: 29316, Start Num: 3

Candidate Starts for LiyuLake_32:

(1, 29747), (2, 29666), (3, 29645), (Start: 4 @29591 has 19 MA's), (5, 29567), (9, 29459), (10, 29447), (11, 29417), (12, 29384),

Gene: Lolly9_32 Start: 29407, Stop: 29132, Start Num: 4

Candidate Starts for Lolly9_32:

(Start: 4 @29407 has 19 MA's), (5, 29383), (7, 29317), (10, 29263), (12, 29200),

Gene: Lumos_32 Start: 29633, Stop: 29358, Start Num: 4

Candidate Starts for Lumos_32:

(1, 29789), (2, 29708), (3, 29687), (Start: 4 @29633 has 19 MA's), (9, 29501), (10, 29489), (11, 29459), (12, 29426),

Gene: MiniLon_32 Start: 29408, Stop: 29133, Start Num: 4

Candidate Starts for MiniLon_32:

(Start: 4 @29408 has 19 MA's), (5, 29384), (7, 29318), (10, 29264), (12, 29201),

Gene: MiniMac_32 Start: 29408, Stop: 29133, Start Num: 4

Candidate Starts for MiniMac_32:

(Start: 4 @29408 has 19 MA's), (5, 29384), (7, 29318), (10, 29264), (12, 29201),

Gene: Moostard_32 Start: 29639, Stop: 29364, Start Num: 4

Candidate Starts for Moostard_32:

(Start: 4 @29639 has 19 MA's), (7, 29549), (9, 29507), (10, 29495), (11, 29465), (12, 29432),

Gene: MsGreen_32 Start: 29636, Stop: 29361, Start Num: 4

Candidate Starts for MsGreen_32:

(1, 29792), (2, 29711), (3, 29690), (Start: 4 @29636 has 19 MA's), (9, 29504), (10, 29492), (11, 29462), (12, 29429),

Gene: Nicholas_32 Start: 29636, Stop: 29361, Start Num: 4

Candidate Starts for Nicholas_32:

(1, 29792), (2, 29711), (3, 29690), (Start: 4 @29636 has 19 MA's), (9, 29504), (10, 29492), (11, 29462), (12, 29429),

Gene: Red305_32 Start: 29690, Stop: 29361, Start Num: 3

Candidate Starts for Red305_32:

(1, 29792), (2, 29711), (3, 29690), (Start: 4 @29636 has 19 MA's), (9, 29504), (10, 29492), (11, 29462), (12, 29429),

Gene: Samty_32 Start: 29638, Stop: 29363, Start Num: 4

Candidate Starts for Samty_32:

(Start: 4 @29638 has 19 MA's), (7, 29548), (9, 29506), (10, 29494), (11, 29464), (12, 29431),

Gene: Snenia_32 Start: 29637, Stop: 29362, Start Num: 4

Candidate Starts for Snenia_32:

(1, 29793), (2, 29712), (3, 29691), (Start: 4 @29637 has 19 MA's), (9, 29505), (10, 29493), (11, 29463), (12, 29430),

Gene: TriFive_32 Start: 29636, Stop: 29361, Start Num: 4

Candidate Starts for TriFive_32:

(1, 29792), (2, 29711), (3, 29690), (Start: 4 @29636 has 19 MA's), (9, 29504), (10, 29492), (11, 29462), (12, 29429),

Gene: Whirlwind_33 Start: 29385, Stop: 29110, Start Num: 4

Candidate Starts for Whirlwind_33:

(Start: 4 @29385 has 19 MA's), (9, 29253), (11, 29211), (12, 29178),