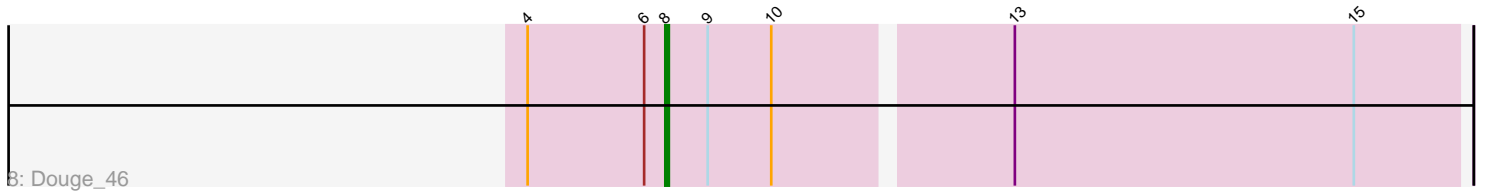
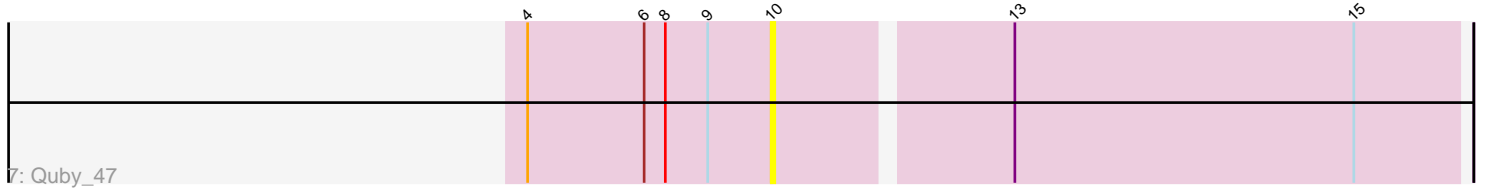
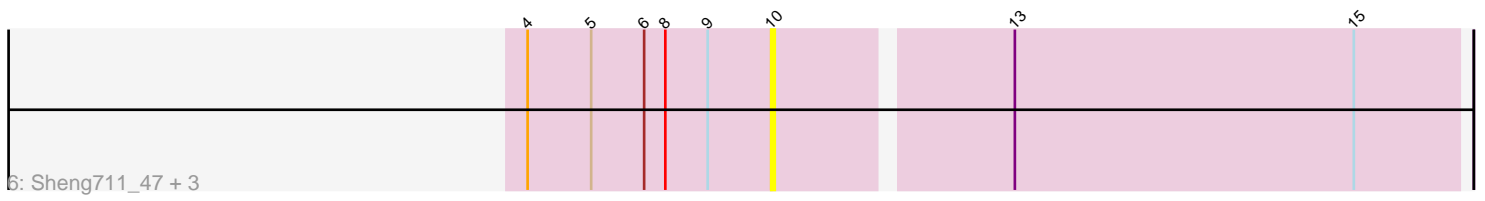
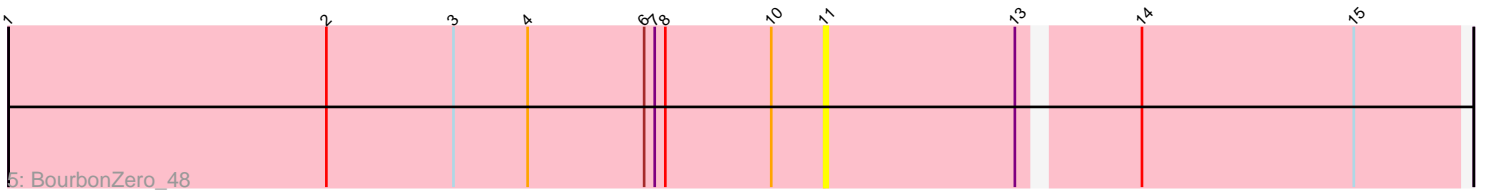
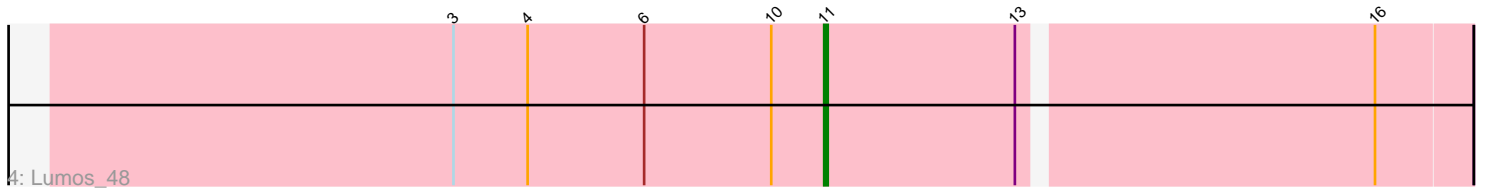
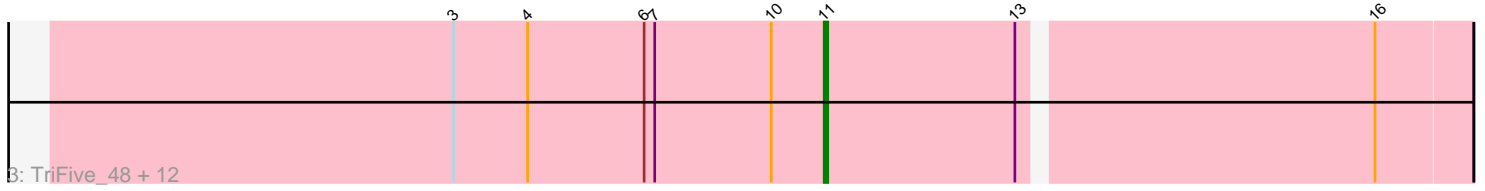
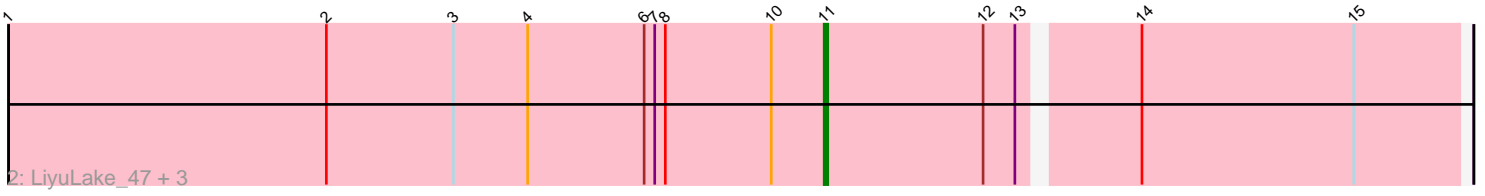
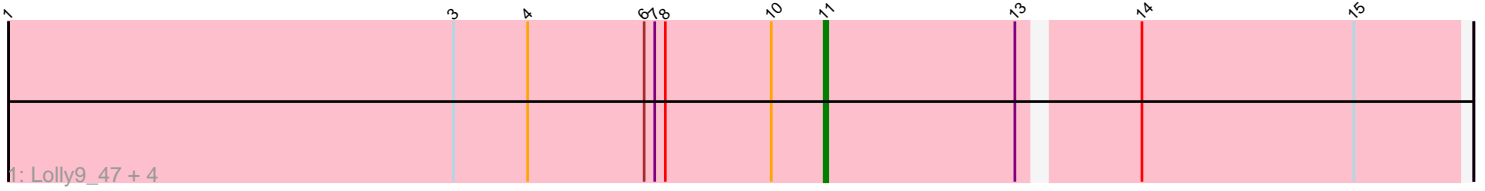


Pham 221665



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 221665 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221665 has 30 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Lolly9_47, MiniLon_49, Whirlwind_48, Krypton555_49, MiniMac_49
- Track 2 : LiyuLake_47, DuncansLeg_47, Ellson_47, KirDoubleO7_46
- Track 3 : TriFive_48, Snenia_47, Samty_47, Jubie_47, Clautastrophe_47, Kingsolomon_47, Finnry_47, Nicholas_47, MsGreen_47, Jobypre_48, Moostard_47, Bellis_47, Red305_48
- Track 4 : Lumos_48
- Track 5 : BourbonZero_48
- Track 6 : Sheng711_47, Douzhi_47, FarmResident_48, PYPDinur_45
- Track 7 : Quby_47
- Track 8 : Douge_46

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

The start number called the most often in the published annotations is 11, it was called in 17 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bellis_47, BourbonZero_48, Clautastrophe_47, DuncansLeg_47, Ellson_47, Finnry_47, Jobypre_48, Jubie_47, Kingsolomon_47, KirDoubleO7_46, Krypton555_49, LiyuLake_47, Lolly9_47, Lumos_48, MiniLon_49, MiniMac_49, Moostard_47, MsGreen_47, Nicholas_47, Red305_48, Samty_47, Snenia_47, TriFive_48, Whirlwind_48,

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

-

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

- Douge_46, Douzhi_47, FarmResident_48, PYPDinur_45, Quby_47, Sheng711_47,

Summary by start number:

Start 8:

- Found in 16 of 30 (53.3%) of genes in pham
- Manual Annotations of this start: 1 of 18

- Called 6.2% of time when present
- Phage (with cluster) where this start called: Douge_46 (L4),

Start 10:

- Found in 30 of 30 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Douzhi_47 (L4), FarmResident_48 (L4), PYPDinur_45 (L4), Quby_47 (L4), Sheng711_47 (L4),

Start 11:

- Found in 24 of 30 (80.0%) of genes in pham
- Manual Annotations of this start: 17 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bellis_47 (L3), BourbonZero_48 (L3), Clautastrophe_47 (L3), DuncansLeg_47 (L3), Ellson_47 (L3), Finnry_47 (L3), Jobypre_48 (L3), Jubie_47 (L3), Kingsolomon_47 (L3), KirDoubleO7_46 (L3), Krypton555_49 (L3), LiyuLake_47 (L3), Lolly9_47 (L3), Lumos_48 (L3), MiniLon_49 (L3), MiniMac_49 (L3), Moostard_47 (L3), MsGreen_47 (L3), Nicholas_47 (L3), Red305_48 (L3), Samty_47 (L3), Snenia_47 (L3), TriFive_48 (L3), Whirlwind_48 (L3),

Summary by clusters:

There are 2 clusters represented in this pham: L4, L3,

Info for manual annotations of cluster L3:

- Start number 11 was manually annotated 17 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 8 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: Bellis_47 Start: 38334, Stop: 38510, Start Num: 11

Candidate Starts for Bellis_47:

(3, 38229), (4, 38250), (6, 38283), (7, 38286), (10, 38319), (Start: 11 @38334 has 17 MA's), (13, 38388), (16, 38484),

Gene: BourbonZero_48 Start: 38374, Stop: 38547, Start Num: 11

Candidate Starts for BourbonZero_48:

(1, 38143), (2, 38233), (3, 38269), (4, 38290), (6, 38323), (7, 38326), (Start: 8 @38329 has 1 MA's), (10, 38359), (Start: 11 @38374 has 17 MA's), (13, 38428), (14, 38458), (15, 38518),

Gene: Clautastrophe_47 Start: 38331, Stop: 38507, Start Num: 11

Candidate Starts for Clautastrophe_47:

(3, 38226), (4, 38247), (6, 38280), (7, 38283), (10, 38316), (Start: 11 @38331 has 17 MA's), (13, 38385), (16, 38481),

Gene: Douge_46 Start: 36693, Stop: 36911, Start Num: 8

Candidate Starts for Douge_46:

(4, 36654), (6, 36687), (Start: 8 @36693 has 1 MA's), (9, 36705), (10, 36723), (13, 36786), (15, 36882),

Gene: Douzhi_47 Start: 36797, Stop: 36985, Start Num: 10

Candidate Starts for Douzhi_47:

(4, 36728), (5, 36746), (6, 36761), (Start: 8 @36767 has 1 MA's), (9, 36779), (10, 36797), (13, 36860), (15, 36956),

Gene: DuncansLeg_47 Start: 38357, Stop: 38530, Start Num: 11

Candidate Starts for DuncansLeg_47:

(1, 38126), (2, 38216), (3, 38252), (4, 38273), (6, 38306), (7, 38309), (Start: 8 @38312 has 1 MA's), (10, 38342), (Start: 11 @38357 has 17 MA's), (12, 38402), (13, 38411), (14, 38441), (15, 38501),

Gene: Ellson_47 Start: 38387, Stop: 38560, Start Num: 11

Candidate Starts for Ellson_47:

(1, 38156), (2, 38246), (3, 38282), (4, 38303), (6, 38336), (7, 38339), (Start: 8 @38342 has 1 MA's), (10, 38372), (Start: 11 @38387 has 17 MA's), (12, 38432), (13, 38441), (14, 38471), (15, 38531),

Gene: FarmResident_48 Start: 36768, Stop: 36956, Start Num: 10

Candidate Starts for FarmResident_48:

(4, 36699), (5, 36717), (6, 36732), (Start: 8 @36738 has 1 MA's), (9, 36750), (10, 36768), (13, 36831), (15, 36927),

Gene: Finnry_47 Start: 38335, Stop: 38511, Start Num: 11

Candidate Starts for Finnry_47:

(3, 38230), (4, 38251), (6, 38284), (7, 38287), (10, 38320), (Start: 11 @38335 has 17 MA's), (13, 38389), (16, 38485),

Gene: Jobypre_48 Start: 38331, Stop: 38507, Start Num: 11

Candidate Starts for Jobypre_48:

(3, 38226), (4, 38247), (6, 38280), (7, 38283), (10, 38316), (Start: 11 @38331 has 17 MA's), (13, 38385), (16, 38481),

Gene: Jubie_47 Start: 38332, Stop: 38508, Start Num: 11

Candidate Starts for Jubie_47:

(3, 38227), (4, 38248), (6, 38281), (7, 38284), (10, 38317), (Start: 11 @38332 has 17 MA's), (13, 38386), (16, 38482),

Gene: Kingsolomon_47 Start: 38331, Stop: 38507, Start Num: 11

Candidate Starts for Kingsolomon_47:

(3, 38226), (4, 38247), (6, 38280), (7, 38283), (10, 38316), (Start: 11 @38331 has 17 MA's), (13, 38385), (16, 38481),

Gene: KirDoubleO7_46 Start: 38361, Stop: 38534, Start Num: 11

Candidate Starts for KirDoubleO7_46:

(1, 38130), (2, 38220), (3, 38256), (4, 38277), (6, 38310), (7, 38313), (Start: 8 @38316 has 1 MA's), (10, 38346), (Start: 11 @38361 has 17 MA's), (12, 38406), (13, 38415), (14, 38445), (15, 38505),

Gene: Krypton555_49 Start: 38305, Stop: 38478, Start Num: 11

Candidate Starts for Krypton555_49:

(1, 38074), (3, 38200), (4, 38221), (6, 38254), (7, 38257), (Start: 8 @38260 has 1 MA's), (10, 38290), (Start: 11 @38305 has 17 MA's), (13, 38359), (14, 38389), (15, 38449),

Gene: LiyuLake_47 Start: 38377, Stop: 38550, Start Num: 11

Candidate Starts for LiyuLake_47:

(1, 38146), (2, 38236), (3, 38272), (4, 38293), (6, 38326), (7, 38329), (Start: 8 @38332 has 1 MA's), (10, 38362), (Start: 11 @38377 has 17 MA's), (12, 38422), (13, 38431), (14, 38461), (15, 38521),

Gene: Lolly9_47 Start: 38143, Stop: 38316, Start Num: 11

Candidate Starts for Lolly9_47:

(1, 37912), (3, 38038), (4, 38059), (6, 38092), (7, 38095), (Start: 8 @38098 has 1 MA's), (10, 38128), (Start: 11 @38143 has 17 MA's), (13, 38197), (14, 38227), (15, 38287),

Gene: Lumos_48 Start: 38328, Stop: 38504, Start Num: 11

Candidate Starts for Lumos_48:

(3, 38223), (4, 38244), (6, 38277), (10, 38313), (Start: 11 @38328 has 17 MA's), (13, 38382), (16, 38478),

Gene: MiniLon_49 Start: 38144, Stop: 38317, Start Num: 11

Candidate Starts for MiniLon_49:

(1, 37913), (3, 38039), (4, 38060), (6, 38093), (7, 38096), (Start: 8 @38099 has 1 MA's), (10, 38129), (Start: 11 @38144 has 17 MA's), (13, 38198), (14, 38228), (15, 38288),

Gene: MiniMac_49 Start: 38142, Stop: 38315, Start Num: 11

Candidate Starts for MiniMac_49:

(1, 37911), (3, 38037), (4, 38058), (6, 38091), (7, 38094), (Start: 8 @38097 has 1 MA's), (10, 38127), (Start: 11 @38142 has 17 MA's), (13, 38196), (14, 38226), (15, 38286),

Gene: Moostard_47 Start: 38334, Stop: 38510, Start Num: 11

Candidate Starts for Moostard_47:

(3, 38229), (4, 38250), (6, 38283), (7, 38286), (10, 38319), (Start: 11 @38334 has 17 MA's), (13, 38388), (16, 38484),

Gene: MsGreen_47 Start: 38331, Stop: 38507, Start Num: 11

Candidate Starts for MsGreen_47:

(3, 38226), (4, 38247), (6, 38280), (7, 38283), (10, 38316), (Start: 11 @38331 has 17 MA's), (13, 38385), (16, 38481),

Gene: Nicholas_47 Start: 38331, Stop: 38507, Start Num: 11

Candidate Starts for Nicholas_47:

(3, 38226), (4, 38247), (6, 38280), (7, 38283), (10, 38316), (Start: 11 @38331 has 17 MA's), (13, 38385), (16, 38481),

Gene: PYPDinur_45 Start: 36829, Stop: 37017, Start Num: 10

Candidate Starts for PYPDinur_45:

(4, 36760), (5, 36778), (6, 36793), (Start: 8 @36799 has 1 MA's), (9, 36811), (10, 36829), (13, 36892), (15, 36988),

Gene: Quby_47 Start: 36724, Stop: 36912, Start Num: 10

Candidate Starts for Quby_47:

(4, 36655), (6, 36688), (Start: 8 @36694 has 1 MA's), (9, 36706), (10, 36724), (13, 36787), (15, 36883),

Gene: Red305_48 Start: 38331, Stop: 38507, Start Num: 11

Candidate Starts for Red305_48:

(3, 38226), (4, 38247), (6, 38280), (7, 38283), (10, 38316), (Start: 11 @38331 has 17 MA's), (13, 38385), (16, 38481),

Gene: Samty_47 Start: 38333, Stop: 38509, Start Num: 11

Candidate Starts for Samty_47:

(3, 38228), (4, 38249), (6, 38282), (7, 38285), (10, 38318), (Start: 11 @38333 has 17 MA's), (13, 38387), (16, 38483),

Gene: Sheng711_47 Start: 36807, Stop: 36995, Start Num: 10

Candidate Starts for Sheng711_47:

(4, 36738), (5, 36756), (6, 36771), (Start: 8 @36777 has 1 MA's), (9, 36789), (10, 36807), (13, 36870), (15, 36966),

Gene: Snenia_47 Start: 38332, Stop: 38508, Start Num: 11

Candidate Starts for Snenia_47:

(3, 38227), (4, 38248), (6, 38281), (7, 38284), (10, 38317), (Start: 11 @38332 has 17 MA's), (13, 38386), (16, 38482),

Gene: TriFive_48 Start: 38331, Stop: 38507, Start Num: 11

Candidate Starts for TriFive_48:

(3, 38226), (4, 38247), (6, 38280), (7, 38283), (10, 38316), (Start: 11 @38331 has 17 MA's), (13, 38385), (16, 38481),

Gene: Whirlwind_48 Start: 38147, Stop: 38320, Start Num: 11

Candidate Starts for Whirlwind_48:

(1, 37916), (3, 38042), (4, 38063), (6, 38096), (7, 38099), (Start: 8 @38102 has 1 MA's), (10, 38132), (Start: 11 @38147 has 17 MA's), (13, 38201), (14, 38231), (15, 38291),