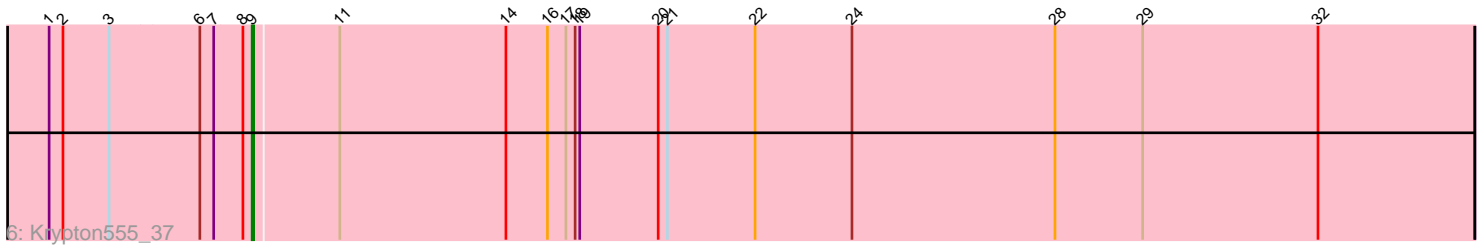
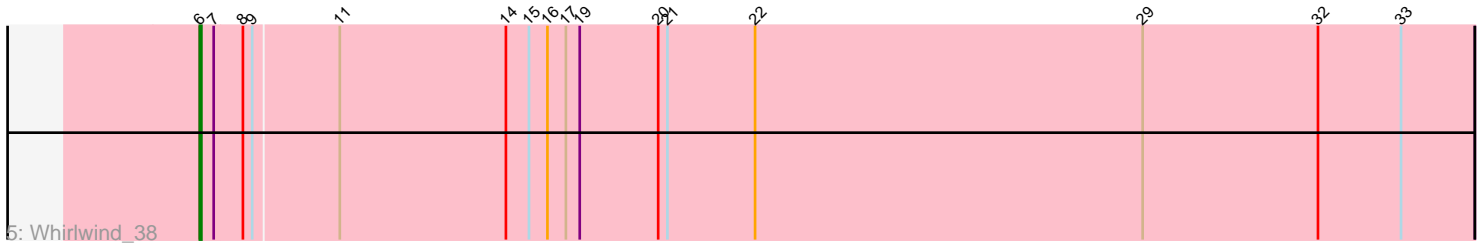
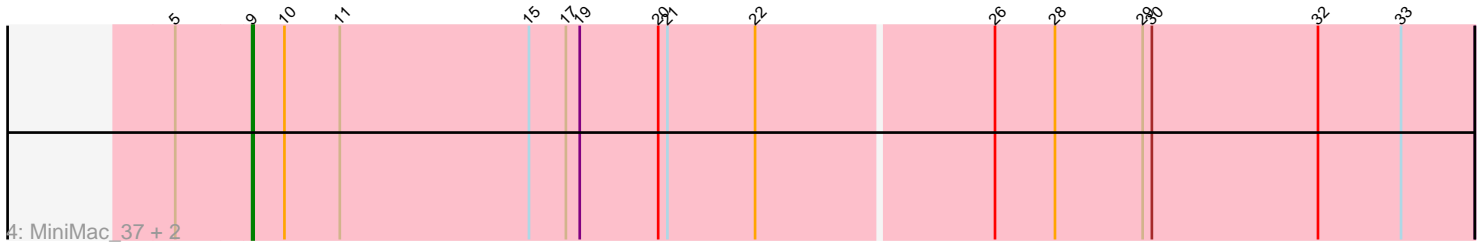
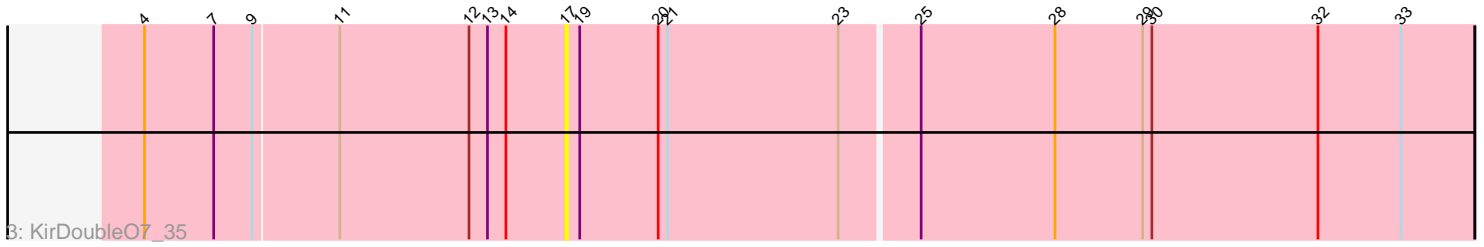
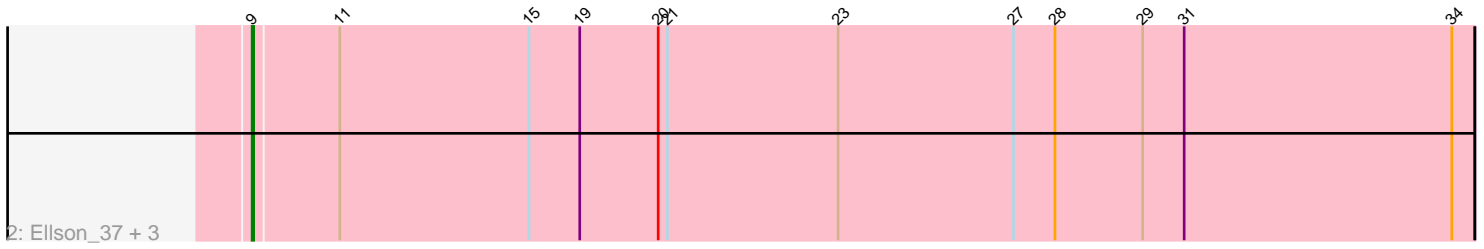
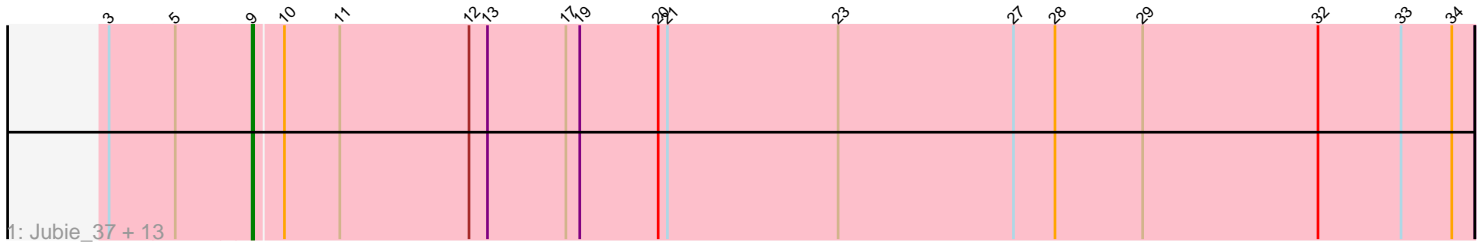


Pham 216507



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 216507 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216507 has 24 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Jubie_37, MsGreen_37, Nicholas_37, Red305_37, Jobypre_37, Clautastrophe_37, Moostard_37, Kingsolomon_37, TriFive_37, Bellis_37, Samty_37, Snenia_37, Lumos_37, Finnry_37
- Track 2 : Ellson_37, BourbonZero_36, LiyuLake_37, DuncansLeg_37
- Track 3 : KirDoubleO7_35
- Track 4 : MiniMac_37, Lolly9_37, MiniLon_37
- Track 5 : Whirlwind_38
- Track 6 : Krypton555_37

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

The start number called the most often in the published annotations is 9, it was called in 16 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bellis_37, BourbonZero_36, Clautastrophe_37, DuncansLeg_37, Ellson_37, Finnry_37, Jobypre_37, Jubie_37, Kingsolomon_37, Krypton555_37, LiyuLake_37, Lolly9_37, Lumos_37, MiniLon_37, MiniMac_37, Moostard_37, MsGreen_37, Nicholas_37, Red305_37, Samty_37, Snenia_37, TriFive_37,

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

- KirDoubleO7_35, Whirlwind_38,

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

-

Summary by start number:

Start 6:

- Found in 2 of 24 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Whirlwind_38 (L3),

Start 9:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 17
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Bellis_37 (L3), BourbonZero_36 (L3), Clautastrophe_37 (L3), DuncansLeg_37 (L3), Ellson_37 (L3), Finnry_37 (L3), Jobypre_37 (L3), Jubie_37 (L3), Kingsolomon_37 (L3), Krypton555_37 (L3), LiyuLake_37 (L3), Lolly9_37 (L3), Lumos_37 (L3), MiniLon_37 (L3), MiniMac_37 (L3), Moostard_37 (L3), MsGreen_37 (L3), Nicholas_37 (L3), Red305_37 (L3), Samty_37 (L3), Snenia_37 (L3), TriFive_37 (L3),

Start 17:

- Found in 20 of 24 (83.3%) of genes in pham
- No Manual Annotations of this start.
- Called 5.0% of time when present
- Phage (with cluster) where this start called: KirDoubleO7_35 (L3),

Summary by clusters:

There is one cluster represented in this pham: L3

Info for manual annotations of cluster L3:

- Start number 6 was manually annotated 1 time for cluster L3.
- Start number 9 was manually annotated 16 times for cluster L3.

Gene Information:

Gene: Bellis_37 Start: 33980, Stop: 33189, Start Num: 9

Candidate Starts for Bellis_37:

(3, 34070), (5, 34028), (Start: 9 @33980 has 16 MA's), (10, 33962), (11, 33926), (12, 33842), (13, 33830), (17, 33779), (19, 33770), (20, 33719), (21, 33713), (23, 33602), (27, 33488), (28, 33461), (29, 33404), (32, 33290), (33, 33236), (34, 33203),

Gene: BourbonZero_36 Start: 33952, Stop: 33161, Start Num: 9

Candidate Starts for BourbonZero_36:

(Start: 9 @33952 has 16 MA's), (11, 33898), (15, 33775), (19, 33742), (20, 33691), (21, 33685), (23, 33574), (27, 33460), (28, 33433), (29, 33376), (31, 33349), (34, 33175),

Gene: Clautastrophe_37 Start: 33978, Stop: 33187, Start Num: 9

Candidate Starts for Clautastrophe_37:

(3, 34068), (5, 34026), (Start: 9 @33978 has 16 MA's), (10, 33960), (11, 33924), (12, 33840), (13, 33828), (17, 33777), (19, 33768), (20, 33717), (21, 33711), (23, 33600), (27, 33486), (28, 33459), (29, 33402), (32, 33288), (33, 33234), (34, 33201),

Gene: DuncansLeg_37 Start: 33989, Stop: 33198, Start Num: 9

Candidate Starts for DuncansLeg_37:

(Start: 9 @33989 has 16 MA's), (11, 33935), (15, 33812), (19, 33779), (20, 33728), (21, 33722), (23, 33611), (27, 33497), (28, 33470), (29, 33413), (31, 33386), (34, 33212),

Gene: Ellson_37 Start: 33965, Stop: 33174, Start Num: 9

Candidate Starts for Ellson_37:

(Start: 9 @33965 has 16 MA's), (11, 33911), (15, 33788), (19, 33755), (20, 33704), (21, 33698), (23, 33587), (27, 33473), (28, 33446), (29, 33389), (31, 33362), (34, 33188),

Gene: Finnry_37 Start: 33981, Stop: 33190, Start Num: 9

Candidate Starts for Finnry_37:

(3, 34071), (5, 34029), (Start: 9 @33981 has 16 MA's), (10, 33963), (11, 33927), (12, 33843), (13, 33831), (17, 33780), (19, 33771), (20, 33720), (21, 33714), (23, 33603), (27, 33489), (28, 33462), (29, 33405), (32, 33291), (33, 33237), (34, 33204),

Gene: Jobypre_37 Start: 33978, Stop: 33187, Start Num: 9

Candidate Starts for Jobypre_37:

(3, 34068), (5, 34026), (Start: 9 @33978 has 16 MA's), (10, 33960), (11, 33924), (12, 33840), (13, 33828), (17, 33777), (19, 33768), (20, 33717), (21, 33711), (23, 33600), (27, 33486), (28, 33459), (29, 33402), (32, 33288), (33, 33234), (34, 33201),

Gene: Jubie_37 Start: 33979, Stop: 33188, Start Num: 9

Candidate Starts for Jubie_37:

(3, 34069), (5, 34027), (Start: 9 @33979 has 16 MA's), (10, 33961), (11, 33925), (12, 33841), (13, 33829), (17, 33778), (19, 33769), (20, 33718), (21, 33712), (23, 33601), (27, 33487), (28, 33460), (29, 33403), (32, 33289), (33, 33235), (34, 33202),

Gene: Kingsolomon_37 Start: 33978, Stop: 33187, Start Num: 9

Candidate Starts for Kingsolomon_37:

(3, 34068), (5, 34026), (Start: 9 @33978 has 16 MA's), (10, 33960), (11, 33924), (12, 33840), (13, 33828), (17, 33777), (19, 33768), (20, 33717), (21, 33711), (23, 33600), (27, 33486), (28, 33459), (29, 33402), (32, 33288), (33, 33234), (34, 33201),

Gene: KirDoubleO7_35 Start: 33790, Stop: 33206, Start Num: 17

Candidate Starts for KirDoubleO7_35:

(4, 34060), (7, 34015), (Start: 9 @33991 has 16 MA's), (11, 33937), (12, 33853), (13, 33841), (14, 33829), (17, 33790), (19, 33781), (20, 33730), (21, 33724), (23, 33613), (25, 33565), (28, 33478), (29, 33421), (30, 33415), (32, 33307), (33, 33253),

Gene: Krypton555_37 Start: 33883, Stop: 33092, Start Num: 9

Candidate Starts for Krypton555_37:

(1, 34012), (2, 34003), (3, 33973), (Start: 6 @33916 has 1 MA's), (7, 33907), (8, 33889), (Start: 9 @33883 has 16 MA's), (11, 33829), (14, 33721), (16, 33694), (17, 33682), (18, 33676), (19, 33673), (20, 33622), (21, 33616), (22, 33559), (24, 33496), (28, 33364), (29, 33307), (32, 33193),

Gene: LiyuLake_37 Start: 33955, Stop: 33164, Start Num: 9

Candidate Starts for LiyuLake_37:

(Start: 9 @33955 has 16 MA's), (11, 33901), (15, 33778), (19, 33745), (20, 33694), (21, 33688), (23, 33577), (27, 33463), (28, 33436), (29, 33379), (31, 33352), (34, 33178),

Gene: Lolly9_37 Start: 33775, Stop: 32987, Start Num: 9

Candidate Starts for Lolly9_37:

(5, 33823), (Start: 9 @33775 has 16 MA's), (10, 33754), (11, 33718), (15, 33595), (17, 33571), (19, 33562), (20, 33511), (21, 33505), (22, 33448), (26, 33298), (28, 33259), (29, 33202), (30, 33196), (32, 33088), (33, 33034),

Gene: Lumos_37 Start: 33975, Stop: 33184, Start Num: 9

Candidate Starts for Lumos_37:

(3, 34065), (5, 34023), (Start: 9 @33975 has 16 MA's), (10, 33957), (11, 33921), (12, 33837), (13, 33825), (17, 33774), (19, 33765), (20, 33714), (21, 33708), (23, 33597), (27, 33483), (28, 33456), (29, 33399), (32, 33285), (33, 33231), (34, 33198),

Gene: MiniLon_37 Start: 33776, Stop: 32988, Start Num: 9

Candidate Starts for MiniLon_37:

(5, 33824), (Start: 9 @33776 has 16 MA's), (10, 33755), (11, 33719), (15, 33596), (17, 33572), (19, 33563), (20, 33512), (21, 33506), (22, 33449), (26, 33299), (28, 33260), (29, 33203), (30, 33197), (32, 33089), (33, 33035),

Gene: MiniMac_37 Start: 33773, Stop: 32985, Start Num: 9

Candidate Starts for MiniMac_37:

(5, 33821), (Start: 9 @33773 has 16 MA's), (10, 33752), (11, 33716), (15, 33593), (17, 33569), (19, 33560), (20, 33509), (21, 33503), (22, 33446), (26, 33296), (28, 33257), (29, 33200), (30, 33194), (32, 33086), (33, 33032),

Gene: Moostard_37 Start: 33980, Stop: 33189, Start Num: 9

Candidate Starts for Moostard_37:

(3, 34070), (5, 34028), (Start: 9 @33980 has 16 MA's), (10, 33962), (11, 33926), (12, 33842), (13, 33830), (17, 33779), (19, 33770), (20, 33719), (21, 33713), (23, 33602), (27, 33488), (28, 33461), (29, 33404), (32, 33290), (33, 33236), (34, 33203),

Gene: MsGreen_37 Start: 33978, Stop: 33187, Start Num: 9

Candidate Starts for MsGreen_37:

(3, 34068), (5, 34026), (Start: 9 @33978 has 16 MA's), (10, 33960), (11, 33924), (12, 33840), (13, 33828), (17, 33777), (19, 33768), (20, 33717), (21, 33711), (23, 33600), (27, 33486), (28, 33459), (29, 33402), (32, 33288), (33, 33234), (34, 33201),

Gene: Nicholas_37 Start: 33978, Stop: 33187, Start Num: 9

Candidate Starts for Nicholas_37:

(3, 34068), (5, 34026), (Start: 9 @33978 has 16 MA's), (10, 33960), (11, 33924), (12, 33840), (13, 33828), (17, 33777), (19, 33768), (20, 33717), (21, 33711), (23, 33600), (27, 33486), (28, 33459), (29, 33402), (32, 33288), (33, 33234), (34, 33201),

Gene: Red305_37 Start: 33978, Stop: 33187, Start Num: 9

Candidate Starts for Red305_37:

(3, 34068), (5, 34026), (Start: 9 @33978 has 16 MA's), (10, 33960), (11, 33924), (12, 33840), (13, 33828), (17, 33777), (19, 33768), (20, 33717), (21, 33711), (23, 33600), (27, 33486), (28, 33459), (29, 33402), (32, 33288), (33, 33234), (34, 33201),

Gene: Samty_37 Start: 33979, Stop: 33188, Start Num: 9

Candidate Starts for Samty_37:

(3, 34069), (5, 34027), (Start: 9 @33979 has 16 MA's), (10, 33961), (11, 33925), (12, 33841), (13, 33829), (17, 33778), (19, 33769), (20, 33718), (21, 33712), (23, 33601), (27, 33487), (28, 33460), (29, 33403), (32, 33289), (33, 33235), (34, 33202),

Gene: Snenia_37 Start: 33979, Stop: 33188, Start Num: 9

Candidate Starts for Snenia_37:

(3, 34069), (5, 34027), (Start: 9 @33979 has 16 MA's), (10, 33961), (11, 33925), (12, 33841), (13, 33829), (17, 33778), (19, 33769), (20, 33718), (21, 33712), (23, 33601), (27, 33487), (28, 33460), (29, 33403), (32, 33289), (33, 33235), (34, 33202),

Gene: TriFive_37 Start: 33978, Stop: 33187, Start Num: 9

Candidate Starts for TriFive_37:

(3, 34068), (5, 34026), (Start: 9 @33978 has 16 MA's), (10, 33960), (11, 33924), (12, 33840), (13, 33828), (17, 33777), (19, 33768), (20, 33717), (21, 33711), (23, 33600), (27, 33486), (28, 33459), (29, 33402), (32, 33288), (33, 33234), (34, 33201),

Gene: Whirlwind_38 Start: 33757, Stop: 32933, Start Num: 6

Candidate Starts for Whirlwind_38:

(Start: 6 @33757 has 1 MA's), (7, 33748), (8, 33730), (Start: 9 @33724 has 16 MA's), (11, 33670), (14, 33562), (15, 33547), (16, 33535), (17, 33523), (19, 33514), (20, 33463), (21, 33457), (22, 33400), (29, 33148), (32, 33034), (33, 32980),