

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 293092 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293092 has 25 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Rossetti_39
- Track 2 : MiniLon_37, MiniMac_37, Lolly9_37
- Track 3 : Jubie_37, MsGreen_37, Nicholas_37, Red305_37, Jobypre_37, Clautastrophe_37, Moostard_37, Kingsolomon_37, TriFive_37, Samty_37, Snenia_37, Lumos_37, Finnry_37
- Track 4 : Ellson_37, BourbonZero_36, LiyuLake_37, DuncansLeg_37
- Track 5 : KirDoubleO7_35
- Track 6 : Whirlwind_38
- Track 7 : Bellis_37
- Track 8 : 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 10, it was called in 17 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 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:

- Bellis_37, KirDoubleO7_35, Whirlwind_38,

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

- Rossetti_39,

Summary by start number:

Start 3:

- Found in 15 of 25 (60.0%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 6.7% of time when present

- Phage (with cluster) where this start called: Bellis_37 (L3),

Start 6:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Whirlwind_38 (L3),

Start 10:

- Found in 24 of 25 (96.0%) of genes in pham
- Manual Annotations of this start: 17 of 19
- Called 87.5% of time when present
- Phage (with cluster) where this start called: 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 18:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rossetti_39 (L2),

Start 20:

- Found in 20 of 25 (80.0%) 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 are 2 clusters represented in this pham: L2, L3,

Info for manual annotations of cluster L3:

- Start number 3 was manually annotated 1 time for cluster L3.
- Start number 6 was manually annotated 1 time for cluster L3.
- Start number 10 was manually annotated 17 times for cluster L3.

Gene Information:

Gene: Bellis_37 Start: 34070, Stop: 33189, Start Num: 3

Candidate Starts for Bellis_37:

(Start: 3 @34070 has 1 MA's), (5, 34028), (Start: 10 @33980 has 17 MA's), (11, 33962), (13, 33926), (14, 33842), (15, 33830), (20, 33779), (22, 33770), (24, 33719), (25, 33713), (29, 33602), (35, 33488), (36, 33461), (37, 33404), (44, 33290), (46, 33236), (47, 33203),

Gene: BourbonZero_36 Start: 33952, Stop: 33161, Start Num: 10

Candidate Starts for BourbonZero_36:

(Start: 10 @33952 has 17 MA's), (13, 33898), (17, 33775), (22, 33742), (24, 33691), (25, 33685), (29, 33574), (35, 33460), (36, 33433), (37, 33376), (40, 33349), (47, 33175),

Gene: Clautastrophe_37 Start: 33978, Stop: 33187, Start Num: 10

Candidate Starts for Clautastrophe_37:

(Start: 3 @34068 has 1 MA's), (5, 34026), (Start: 10 @33978 has 17 MA's), (11, 33960), (13, 33924), (14, 33840), (15, 33828), (20, 33777), (22, 33768), (24, 33717), (25, 33711), (29, 33600), (35, 33486), (36, 33459), (37, 33402), (44, 33288), (46, 33234), (47, 33201),

Gene: DuncansLeg_37 Start: 33989, Stop: 33198, Start Num: 10

Candidate Starts for DuncansLeg_37:

(Start: 10 @33989 has 17 MA's), (13, 33935), (17, 33812), (22, 33779), (24, 33728), (25, 33722), (29, 33611), (35, 33497), (36, 33470), (37, 33413), (40, 33386), (47, 33212),

Gene: Ellson_37 Start: 33965, Stop: 33174, Start Num: 10

Candidate Starts for Ellson_37:

(Start: 10 @33965 has 17 MA's), (13, 33911), (17, 33788), (22, 33755), (24, 33704), (25, 33698), (29, 33587), (35, 33473), (36, 33446), (37, 33389), (40, 33362), (47, 33188),

Gene: Finnry_37 Start: 33981, Stop: 33190, Start Num: 10

Candidate Starts for Finnry_37:

(Start: 3 @34071 has 1 MA's), (5, 34029), (Start: 10 @33981 has 17 MA's), (11, 33963), (13, 33927), (14, 33843), (15, 33831), (20, 33780), (22, 33771), (24, 33720), (25, 33714), (29, 33603), (35, 33489), (36, 33462), (37, 33405), (44, 33291), (46, 33237), (47, 33204),

Gene: Jobypre_37 Start: 33978, Stop: 33187, Start Num: 10

Candidate Starts for Jobypre_37:

(Start: 3 @34068 has 1 MA's), (5, 34026), (Start: 10 @33978 has 17 MA's), (11, 33960), (13, 33924), (14, 33840), (15, 33828), (20, 33777), (22, 33768), (24, 33717), (25, 33711), (29, 33600), (35, 33486), (36, 33459), (37, 33402), (44, 33288), (46, 33234), (47, 33201),

Gene: Jubie_37 Start: 33979, Stop: 33188, Start Num: 10

Candidate Starts for Jubie_37:

(Start: 3 @34069 has 1 MA's), (5, 34027), (Start: 10 @33979 has 17 MA's), (11, 33961), (13, 33925), (14, 33841), (15, 33829), (20, 33778), (22, 33769), (24, 33718), (25, 33712), (29, 33601), (35, 33487), (36, 33460), (37, 33403), (44, 33289), (46, 33235), (47, 33202),

Gene: Kingsolomon_37 Start: 33978, Stop: 33187, Start Num: 10

Candidate Starts for Kingsolomon_37:

(Start: 3 @34068 has 1 MA's), (5, 34026), (Start: 10 @33978 has 17 MA's), (11, 33960), (13, 33924), (14, 33840), (15, 33828), (20, 33777), (22, 33768), (24, 33717), (25, 33711), (29, 33600), (35, 33486), (36, 33459), (37, 33402), (44, 33288), (46, 33234), (47, 33201),

Gene: KirDoubleO7_35 Start: 33790, Stop: 33206, Start Num: 20

Candidate Starts for KirDoubleO7_35:

(4, 34060), (7, 34015), (Start: 10 @33991 has 17 MA's), (13, 33937), (14, 33853), (15, 33841), (16, 33829), (20, 33790), (22, 33781), (24, 33730), (25, 33724), (29, 33613), (32, 33565), (36, 33478), (37, 33421), (38, 33415), (44, 33307), (46, 33253),

Gene: Krypton555_37 Start: 33883, Stop: 33092, Start Num: 10

Candidate Starts for Krypton555_37:

(1, 34012), (2, 34003), (Start: 3 @33973 has 1 MA's), (Start: 6 @33916 has 1 MA's), (7, 33907), (8, 33889), (Start: 10 @33883 has 17 MA's), (13, 33829), (16, 33721), (19, 33694), (20, 33682), (21,

33676), (22, 33673), (24, 33622), (25, 33616), (27, 33559), (30, 33496), (36, 33364), (37, 33307), (44, 33193),

Gene: LiyuLake_37 Start: 33955, Stop: 33164, Start Num: 10

Candidate Starts for LiyuLake_37:

(Start: 10 @33955 has 17 MA's), (13, 33901), (17, 33778), (22, 33745), (24, 33694), (25, 33688), (29, 33577), (35, 33463), (36, 33436), (37, 33379), (40, 33352), (47, 33178),

Gene: Lolly9_37 Start: 33775, Stop: 32987, Start Num: 10

Candidate Starts for Lolly9_37:

(5, 33823), (Start: 10 @33775 has 17 MA's), (11, 33754), (13, 33718), (17, 33595), (20, 33571), (22, 33562), (24, 33511), (25, 33505), (27, 33448), (34, 33298), (36, 33259), (37, 33202), (38, 33196), (44, 33088), (46, 33034),

Gene: Lumos_37 Start: 33975, Stop: 33184, Start Num: 10

Candidate Starts for Lumos_37:

(Start: 3 @34065 has 1 MA's), (5, 34023), (Start: 10 @33975 has 17 MA's), (11, 33957), (13, 33921), (14, 33837), (15, 33825), (20, 33774), (22, 33765), (24, 33714), (25, 33708), (29, 33597), (35, 33483), (36, 33456), (37, 33399), (44, 33285), (46, 33231), (47, 33198),

Gene: MiniLon_37 Start: 33776, Stop: 32988, Start Num: 10

Candidate Starts for MiniLon_37:

(5, 33824), (Start: 10 @33776 has 17 MA's), (11, 33755), (13, 33719), (17, 33596), (20, 33572), (22, 33563), (24, 33512), (25, 33506), (27, 33449), (34, 33299), (36, 33260), (37, 33203), (38, 33197), (44, 33089), (46, 33035),

Gene: MiniMac_37 Start: 33773, Stop: 32985, Start Num: 10

Candidate Starts for MiniMac_37:

(5, 33821), (Start: 10 @33773 has 17 MA's), (11, 33752), (13, 33716), (17, 33593), (20, 33569), (22, 33560), (24, 33509), (25, 33503), (27, 33446), (34, 33296), (36, 33257), (37, 33200), (38, 33194), (44, 33086), (46, 33032),

Gene: Moostard_37 Start: 33980, Stop: 33189, Start Num: 10

Candidate Starts for Moostard_37:

(Start: 3 @34070 has 1 MA's), (5, 34028), (Start: 10 @33980 has 17 MA's), (11, 33962), (13, 33926), (14, 33842), (15, 33830), (20, 33779), (22, 33770), (24, 33719), (25, 33713), (29, 33602), (35, 33488), (36, 33461), (37, 33404), (44, 33290), (46, 33236), (47, 33203),

Gene: MsGreen_37 Start: 33978, Stop: 33187, Start Num: 10

Candidate Starts for MsGreen_37:

(Start: 3 @34068 has 1 MA's), (5, 34026), (Start: 10 @33978 has 17 MA's), (11, 33960), (13, 33924), (14, 33840), (15, 33828), (20, 33777), (22, 33768), (24, 33717), (25, 33711), (29, 33600), (35, 33486), (36, 33459), (37, 33402), (44, 33288), (46, 33234), (47, 33201),

Gene: Nicholas_37 Start: 33978, Stop: 33187, Start Num: 10

Candidate Starts for Nicholas_37:

(Start: 3 @34068 has 1 MA's), (5, 34026), (Start: 10 @33978 has 17 MA's), (11, 33960), (13, 33924), (14, 33840), (15, 33828), (20, 33777), (22, 33768), (24, 33717), (25, 33711), (29, 33600), (35, 33486), (36, 33459), (37, 33402), (44, 33288), (46, 33234), (47, 33201),

Gene: Red305_37 Start: 33978, Stop: 33187, Start Num: 10

Candidate Starts for Red305_37:

(Start: 3 @34068 has 1 MA's), (5, 34026), (Start: 10 @33978 has 17 MA's), (11, 33960), (13, 33924), (14, 33840), (15, 33828), (20, 33777), (22, 33768), (24, 33717), (25, 33711), (29, 33600), (35, 33486), (36, 33459), (37, 33402), (44, 33288), (46, 33234), (47, 33201),

Gene: Rossetti_39 Start: 33812, Stop: 33228, Start Num: 18

Candidate Starts for Rossetti_39:

(9, 34007), (12, 33950), (18, 33812), (23, 33740), (24, 33734), (26, 33692), (28, 33665), (31, 33599), (33, 33524), (39, 33428), (41, 33386), (42, 33368), (43, 33359), (45, 33314),

Gene: Samty_37 Start: 33979, Stop: 33188, Start Num: 10

Candidate Starts for Samty_37:

(Start: 3 @34069 has 1 MA's), (5, 34027), (Start: 10 @33979 has 17 MA's), (11, 33961), (13, 33925), (14, 33841), (15, 33829), (20, 33778), (22, 33769), (24, 33718), (25, 33712), (29, 33601), (35, 33487), (36, 33460), (37, 33403), (44, 33289), (46, 33235), (47, 33202),

Gene: Snenia_37 Start: 33979, Stop: 33188, Start Num: 10

Candidate Starts for Snenia_37:

(Start: 3 @34069 has 1 MA's), (5, 34027), (Start: 10 @33979 has 17 MA's), (11, 33961), (13, 33925), (14, 33841), (15, 33829), (20, 33778), (22, 33769), (24, 33718), (25, 33712), (29, 33601), (35, 33487), (36, 33460), (37, 33403), (44, 33289), (46, 33235), (47, 33202),

Gene: TriFive_37 Start: 33978, Stop: 33187, Start Num: 10

Candidate Starts for TriFive_37:

(Start: 3 @34068 has 1 MA's), (5, 34026), (Start: 10 @33978 has 17 MA's), (11, 33960), (13, 33924), (14, 33840), (15, 33828), (20, 33777), (22, 33768), (24, 33717), (25, 33711), (29, 33600), (35, 33486), (36, 33459), (37, 33402), (44, 33288), (46, 33234), (47, 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: 10 @33724 has 17 MA's), (13, 33670), (16, 33562), (17, 33547), (19, 33535), (20, 33523), (22, 33514), (24, 33463), (25, 33457), (27, 33400), (37, 33148), (44, 33034), (46, 32980),