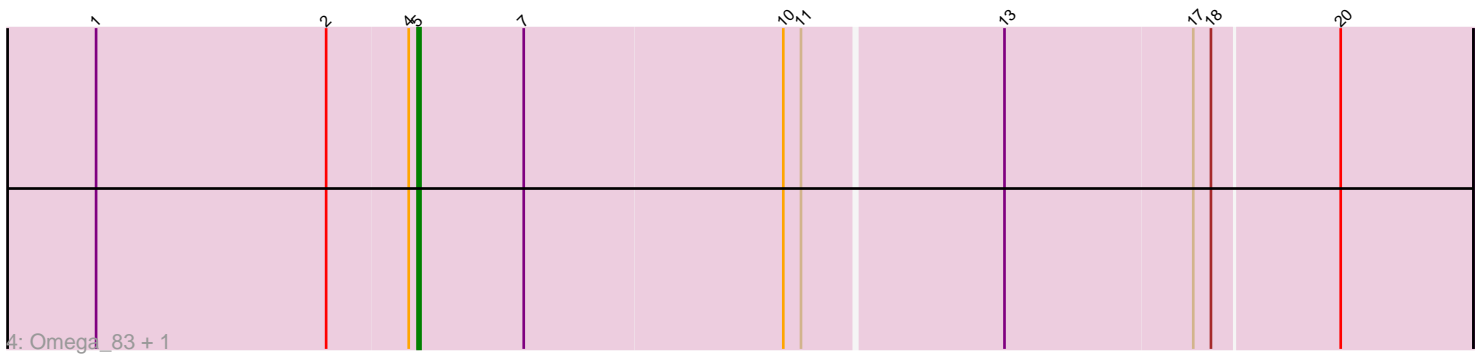
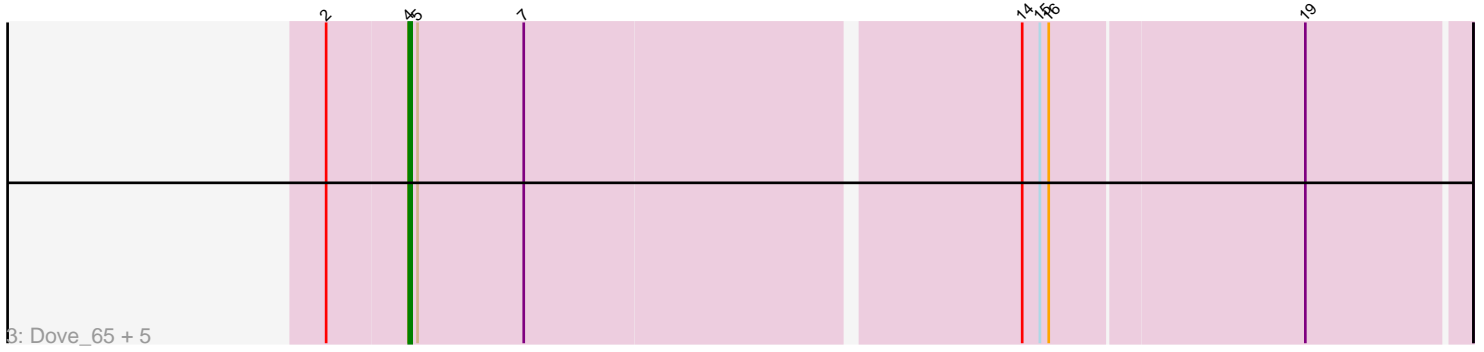
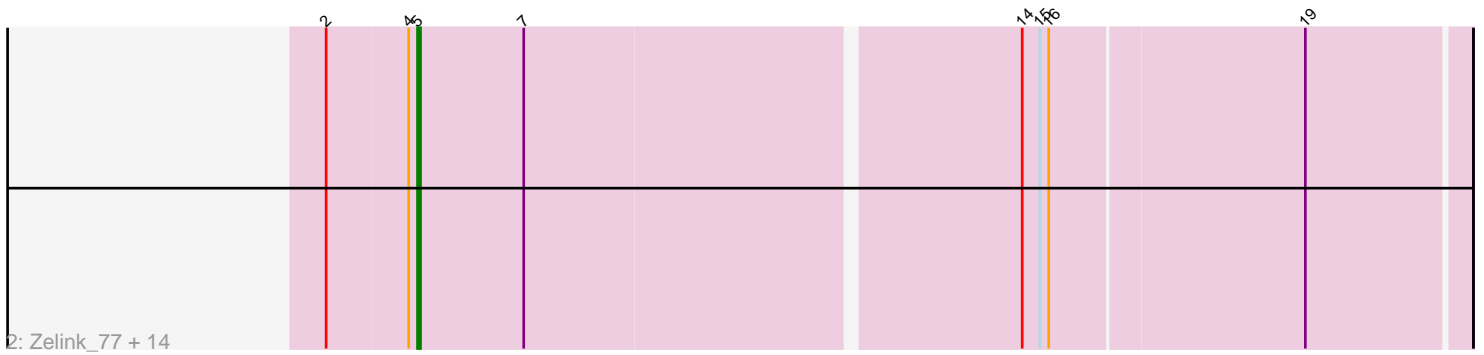
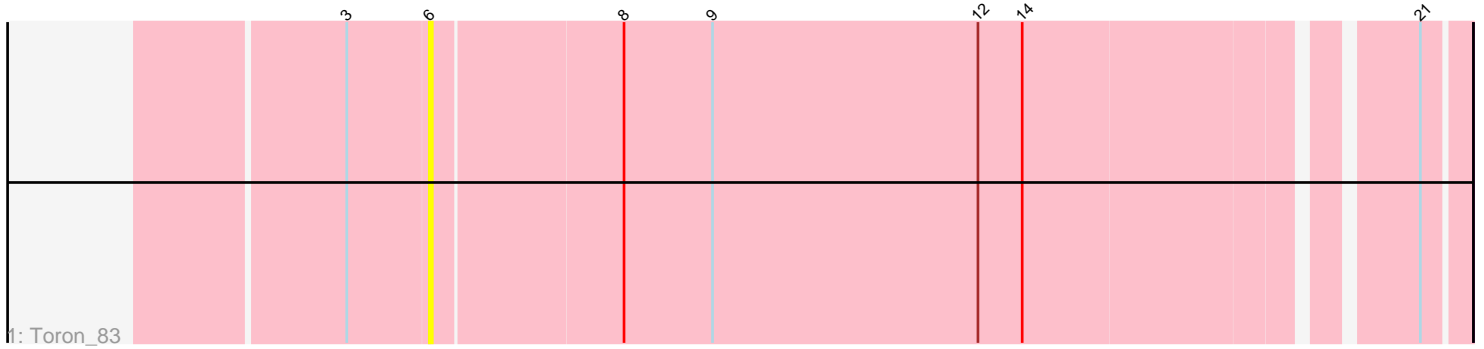


Pham 216506



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 216506 Report

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

Pham number 216506 has 24 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Toron_83
- Track 2 : Zelink_77, Ejimix_79, Kalah2_74, NihilNomen_80, Beem_79, Phoebus_82, EricMillard_78, Bagrid_80, Dallas_78, JuicyJay_77, DmpstrDiver_80, Odette_78, Hughesyang_79, ThreeRngTarjay_77, Bombitas_69
- Track 3 : Dove_65, HokkenD_71, Yeet_74, Halley_81, Redno2_76, Schatzie_75
- Track 4 : Omega_83, Shaboozey_77

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

The start number called the most often in the published annotations is 5, it was called in 14 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bagrid_80, Beem_79, Bombitas_69, Dallas_78, DmpstrDiver_80, Ejimix_79, EricMillard_78, Hughesyang_79, JuicyJay_77, Kalah2_74, NihilNomen_80, Odette_78, Omega_83, Phoebus_82, Shaboozey_77, ThreeRngTarjay_77, Zelink_77,

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

- Dove_65, Halley_81, HokkenD_71, Redno2_76, Schatzie_75, Yeet_74,

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

- Toron_83,

Summary by start number:

Start 4:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 6 of 20
- Called 26.1% of time when present
- Phage (with cluster) where this start called: Dove_65 (J), Halley_81 (J), HokkenD_71 (J), Redno2_76 (J), Schatzie_75 (J), Yeet_74 (J),

Start 5:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 14 of 20
- Called 73.9% of time when present
- Phage (with cluster) where this start called: Bagrid_80 (J), Beem_79 (J), Bombitas_69 (J), Dallas_78 (J), DmpstrDiver_80 (J), Ejimix_79 (J), EricMillard_78 (J), Hughesyang_79 (J), JuicyJay_77 (J), Kalah2_74 (J), NihilNomen_80 (J), Odette_78 (J), Omega_83 (J), Phoebus_82 (J), Shaboozey_77 (J), ThreeRngTarjay_77 (J), Zelink_77 (J),

Start 6:

- Found in 1 of 24 (4.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toron_83 (F6),

Summary by clusters:

There are 2 clusters represented in this pham: J, F6,

Info for manual annotations of cluster J:

- Start number 4 was manually annotated 6 times for cluster J.
- Start number 5 was manually annotated 14 times for cluster J.

Gene Information:

Gene: Bagrid_80 Start: 51928, Stop: 51584, Start Num: 5

Candidate Starts for Bagrid_80:

(2, 51958), (Start: 4 @51931 has 6 MA's), (Start: 5 @51928 has 14 MA's), (7, 51892), (14, 51730), (15, 51724), (16, 51721), (19, 51637),

Gene: Beem_79 Start: 52789, Stop: 52445, Start Num: 5

Candidate Starts for Beem_79:

(2, 52819), (Start: 4 @52792 has 6 MA's), (Start: 5 @52789 has 14 MA's), (7, 52753), (14, 52591), (15, 52585), (16, 52582), (19, 52498),

Gene: Bombitas_69 Start: 49952, Stop: 49608, Start Num: 5

Candidate Starts for Bombitas_69:

(2, 49982), (Start: 4 @49955 has 6 MA's), (Start: 5 @49952 has 14 MA's), (7, 49916), (14, 49754), (15, 49748), (16, 49745), (19, 49661),

Gene: Dallas_78 Start: 51710, Stop: 51366, Start Num: 5

Candidate Starts for Dallas_78:

(2, 51740), (Start: 4 @51713 has 6 MA's), (Start: 5 @51710 has 14 MA's), (7, 51674), (14, 51512), (15, 51506), (16, 51503), (19, 51419),

Gene: DmpstrDiver_80 Start: 52136, Stop: 51792, Start Num: 5

Candidate Starts for DmpstrDiver_80:

(2, 52166), (Start: 4 @52139 has 6 MA's), (Start: 5 @52136 has 14 MA's), (7, 52100), (14, 51938), (15, 51932), (16, 51929), (19, 51845),

Gene: Dove_65 Start: 48221, Stop: 47874, Start Num: 4

Candidate Starts for Dove_65:

(2, 48248), (Start: 4 @48221 has 6 MA's), (Start: 5 @48218 has 14 MA's), (7, 48182), (14, 48020), (15, 48014), (16, 48011), (19, 47927),

Gene: Ejimix_79 Start: 53578, Stop: 53234, Start Num: 5

Candidate Starts for Ejimix_79:

(2, 53608), (Start: 4 @53581 has 6 MA's), (Start: 5 @53578 has 14 MA's), (7, 53542), (14, 53380), (15, 53374), (16, 53371), (19, 53287),

Gene: EricMillard_78 Start: 52781, Stop: 52437, Start Num: 5

Candidate Starts for EricMillard_78:

(2, 52811), (Start: 4 @52784 has 6 MA's), (Start: 5 @52781 has 14 MA's), (7, 52745), (14, 52583), (15, 52577), (16, 52574), (19, 52490),

Gene: Halley_81 Start: 52792, Stop: 52445, Start Num: 4

Candidate Starts for Halley_81:

(2, 52819), (Start: 4 @52792 has 6 MA's), (Start: 5 @52789 has 14 MA's), (7, 52753), (14, 52591), (15, 52585), (16, 52582), (19, 52498),

Gene: HokkenD_71 Start: 51061, Stop: 50714, Start Num: 4

Candidate Starts for HokkenD_71:

(2, 51088), (Start: 4 @51061 has 6 MA's), (Start: 5 @51058 has 14 MA's), (7, 51022), (14, 50860), (15, 50854), (16, 50851), (19, 50767),

Gene: Hughesyang_79 Start: 52747, Stop: 52403, Start Num: 5

Candidate Starts for Hughesyang_79:

(2, 52777), (Start: 4 @52750 has 6 MA's), (Start: 5 @52747 has 14 MA's), (7, 52711), (14, 52549), (15, 52543), (16, 52540), (19, 52456),

Gene: JuicyJay_77 Start: 53923, Stop: 53579, Start Num: 5

Candidate Starts for JuicyJay_77:

(2, 53953), (Start: 4 @53926 has 6 MA's), (Start: 5 @53923 has 14 MA's), (7, 53887), (14, 53725), (15, 53719), (16, 53716), (19, 53632),

Gene: Kalah2_74 Start: 52082, Stop: 51738, Start Num: 5

Candidate Starts for Kalah2_74:

(2, 52112), (Start: 4 @52085 has 6 MA's), (Start: 5 @52082 has 14 MA's), (7, 52046), (14, 51884), (15, 51878), (16, 51875), (19, 51791),

Gene: NihilNomen_80 Start: 52876, Stop: 52532, Start Num: 5

Candidate Starts for NihilNomen_80:

(2, 52906), (Start: 4 @52879 has 6 MA's), (Start: 5 @52876 has 14 MA's), (7, 52840), (14, 52678), (15, 52672), (16, 52669), (19, 52585),

Gene: Odette_78 Start: 51918, Stop: 51574, Start Num: 5

Candidate Starts for Odette_78:

(2, 51948), (Start: 4 @51921 has 6 MA's), (Start: 5 @51918 has 14 MA's), (7, 51882), (14, 51720), (15, 51714), (16, 51711), (19, 51627),

Gene: Omega_83 Start: 53053, Stop: 52703, Start Num: 5

Candidate Starts for Omega_83:

(1, 53161), (2, 53083), (Start: 4 @53056 has 6 MA's), (Start: 5 @53053 has 14 MA's), (7, 53017), (10, 52930), (11, 52924), (13, 52858), (17, 52795), (18, 52789), (20, 52747),

Gene: Phoebus_82 Start: 54058, Stop: 53714, Start Num: 5

Candidate Starts for Phoebus_82:

(2, 54088), (Start: 4 @54061 has 6 MA's), (Start: 5 @54058 has 14 MA's), (7, 54022), (14, 53860), (15, 53854), (16, 53851), (19, 53767),

Gene: Redno2_76 Start: 49675, Stop: 49328, Start Num: 4

Candidate Starts for Redno2_76:

(2, 49702), (Start: 4 @49675 has 6 MA's), (Start: 5 @49672 has 14 MA's), (7, 49636), (14, 49474), (15, 49468), (16, 49465), (19, 49381),

Gene: Schatzie_75 Start: 51668, Stop: 51321, Start Num: 4

Candidate Starts for Schatzie_75:

(2, 51695), (Start: 4 @51668 has 6 MA's), (Start: 5 @51665 has 14 MA's), (7, 51629), (14, 51467), (15, 51461), (16, 51458), (19, 51374),

Gene: Shaboozey_77 Start: 48244, Stop: 47894, Start Num: 5

Candidate Starts for Shaboozey_77:

(1, 48352), (2, 48274), (Start: 4 @48247 has 6 MA's), (Start: 5 @48244 has 14 MA's), (7, 48208), (10, 48121), (11, 48115), (13, 48049), (17, 47986), (18, 47980), (20, 47938),

Gene: ThreeRngTarjay_77 Start: 52950, Stop: 52606, Start Num: 5

Candidate Starts for ThreeRngTarjay_77:

(2, 52980), (Start: 4 @52953 has 6 MA's), (Start: 5 @52950 has 14 MA's), (7, 52914), (14, 52752), (15, 52746), (16, 52743), (19, 52659),

Gene: Toron_83 Start: 50561, Stop: 50893, Start Num: 6

Candidate Starts for Toron_83:

(3, 50534), (6, 50561), (8, 50624), (9, 50654), (12, 50744), (14, 50759), (21, 50879),

Gene: Yeet_74 Start: 51170, Stop: 50823, Start Num: 4

Candidate Starts for Yeet_74:

(2, 51197), (Start: 4 @51170 has 6 MA's), (Start: 5 @51167 has 14 MA's), (7, 51131), (14, 50969), (15, 50963), (16, 50960), (19, 50876),

Gene: Zelink_77 Start: 53262, Stop: 52918, Start Num: 5

Candidate Starts for Zelink_77:

(2, 53292), (Start: 4 @53265 has 6 MA's), (Start: 5 @53262 has 14 MA's), (7, 53226), (14, 53064), (15, 53058), (16, 53055), (19, 52971),