



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 4285 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4285 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Tesla_27, MosMoris_26, LittleLaf_27, Lilbit_29, JoieB_28, Beelzebub_31, Clarkson_28, Huphlebuff_29, Marvin_26, RedRaider77_28, Blackbeetle_28, Raela_28, Pringar_27, Gattaca_27, Caprice_24, VasuNzinga_27, Corazon_26, Poise_28

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

The start number called the most often in the published annotations is 1, it was called in 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_31, Blackbeetle_28, Caprice_24, Clarkson_28, Corazon_26, Gattaca_27, Huphlebuff_29, JoieB_28, Lilbit_29, LittleLaf_27, Marvin_26, MosMoris_26, Poise_28, Pringar_27, Raela_28, RedRaider77_28, Tesla_27, VasuNzinga_27,

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

-

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

-

Summary by start number:

Start 1:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_31 (S), Blackbeetle_28 (S), Caprice_24 (S), Clarkson_28 (S), Corazon_26 (S), Gattaca_27 (S), Huphlebuff_29 (S), JoieB_28 (S), Lilbit_29 (S), LittleLaf_27 (S), Marvin_26 (S), MosMoris_26 (S), Poise_28 (S), Pringar_27 (S), Raela_28 (S), RedRaider77_28 (S), Tesla_27 (S), VasuNzinga_27 (S),

Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 1 was manually annotated 16 times for cluster S.

Gene Information:

Gene: Beelzebub_31 Start: 8317, Stop: 8637, Start Num: 1

Candidate Starts for Beelzebub_31:

(Start: 1 @8317 has 16 MA's), (2, 8332), (3, 8338), (4, 8353), (5, 8359), (6, 8377), (7, 8380), (8, 8401), (9, 8413), (10, 8425), (11, 8443), (12, 8449), (13, 8521), (14, 8557), (15, 8596), (16, 8608),

Gene: Blackbeetle_28 Start: 7650, Stop: 7973, Start Num: 1

Candidate Starts for Blackbeetle_28:

(Start: 1 @7650 has 16 MA's), (2, 7665), (3, 7671), (4, 7686), (5, 7692), (6, 7710), (7, 7713), (8, 7734), (9, 7746), (10, 7758), (11, 7776), (12, 7782), (13, 7854), (14, 7890), (15, 7929), (16, 7941),

Gene: Caprice_24 Start: 6881, Stop: 7201, Start Num: 1

Candidate Starts for Caprice_24:

(Start: 1 @6881 has 16 MA's), (2, 6896), (3, 6902), (4, 6917), (5, 6923), (6, 6941), (7, 6944), (8, 6965), (9, 6977), (10, 6989), (11, 7007), (12, 7013), (13, 7085), (14, 7121), (15, 7160), (16, 7172),

Gene: Clarkson_28 Start: 8018, Stop: 8338, Start Num: 1

Candidate Starts for Clarkson_28:

(Start: 1 @8018 has 16 MA's), (2, 8033), (3, 8039), (4, 8054), (5, 8060), (6, 8078), (7, 8081), (8, 8102), (9, 8114), (10, 8126), (11, 8144), (12, 8150), (13, 8222), (14, 8258), (15, 8297), (16, 8309),

Gene: Corazon_26 Start: 7971, Stop: 8291, Start Num: 1

Candidate Starts for Corazon_26:

(Start: 1 @7971 has 16 MA's), (2, 7986), (3, 7992), (4, 8007), (5, 8013), (6, 8031), (7, 8034), (8, 8055), (9, 8067), (10, 8079), (11, 8097), (12, 8103), (13, 8175), (14, 8211), (15, 8250), (16, 8262),

Gene: Gattaca_27 Start: 7539, Stop: 7862, Start Num: 1

Candidate Starts for Gattaca_27:

(Start: 1 @7539 has 16 MA's), (2, 7554), (3, 7560), (4, 7575), (5, 7581), (6, 7599), (7, 7602), (8, 7623), (9, 7635), (10, 7647), (11, 7665), (12, 7671), (13, 7743), (14, 7779), (15, 7818), (16, 7830),

Gene: Huphlebuff_29 Start: 7823, Stop: 8143, Start Num: 1

Candidate Starts for Huphlebuff_29:

(Start: 1 @7823 has 16 MA's), (2, 7838), (3, 7844), (4, 7859), (5, 7865), (6, 7883), (7, 7886), (8, 7907), (9, 7919), (10, 7931), (11, 7949), (12, 7955), (13, 8027), (14, 8063), (15, 8102), (16, 8114),

Gene: JoieB_28 Start: 8042, Stop: 8362, Start Num: 1

Candidate Starts for JoieB_28:

(Start: 1 @8042 has 16 MA's), (2, 8057), (3, 8063), (4, 8078), (5, 8084), (6, 8102), (7, 8105), (8, 8126), (9, 8138), (10, 8150), (11, 8168), (12, 8174), (13, 8246), (14, 8282), (15, 8321), (16, 8333),

Gene: Lilbit_29 Start: 8019, Stop: 8339, Start Num: 1

Candidate Starts for Lilbit_29:

(Start: 1 @8019 has 16 MA's), (2, 8034), (3, 8040), (4, 8055), (5, 8061), (6, 8079), (7, 8082), (8, 8103), (9, 8115), (10, 8127), (11, 8145), (12, 8151), (13, 8223), (14, 8259), (15, 8298), (16, 8310),

Gene: LittleLaf_27 Start: 7748, Stop: 8068, Start Num: 1

Candidate Starts for LittleLaf_27:

(Start: 1 @7748 has 16 MA's), (2, 7763), (3, 7769), (4, 7784), (5, 7790), (6, 7808), (7, 7811), (8, 7832), (9, 7844), (10, 7856), (11, 7874), (12, 7880), (13, 7952), (14, 7988), (15, 8027), (16, 8039),

Gene: Marvin_26 Start: 8018, Stop: 8338, Start Num: 1

Candidate Starts for Marvin_26:

(Start: 1 @8018 has 16 MA's), (2, 8033), (3, 8039), (4, 8054), (5, 8060), (6, 8078), (7, 8081), (8, 8102), (9, 8114), (10, 8126), (11, 8144), (12, 8150), (13, 8222), (14, 8258), (15, 8297), (16, 8309),

Gene: MosMoris_26 Start: 7539, Stop: 7862, Start Num: 1

Candidate Starts for MosMoris_26:

(Start: 1 @7539 has 16 MA's), (2, 7554), (3, 7560), (4, 7575), (5, 7581), (6, 7599), (7, 7602), (8, 7623), (9, 7635), (10, 7647), (11, 7665), (12, 7671), (13, 7743), (14, 7779), (15, 7818), (16, 7830),

Gene: Poise_28 Start: 7650, Stop: 7973, Start Num: 1

Candidate Starts for Poise_28:

(Start: 1 @7650 has 16 MA's), (2, 7665), (3, 7671), (4, 7686), (5, 7692), (6, 7710), (7, 7713), (8, 7734), (9, 7746), (10, 7758), (11, 7776), (12, 7782), (13, 7854), (14, 7890), (15, 7929), (16, 7941),

Gene: Pringar_27 Start: 7648, Stop: 7968, Start Num: 1

Candidate Starts for Pringar_27:

(Start: 1 @7648 has 16 MA's), (2, 7663), (3, 7669), (4, 7684), (5, 7690), (6, 7708), (7, 7711), (8, 7732), (9, 7744), (10, 7756), (11, 7774), (12, 7780), (13, 7852), (14, 7888), (15, 7927), (16, 7939),

Gene: Raela_28 Start: 8205, Stop: 8528, Start Num: 1

Candidate Starts for Raela_28:

(Start: 1 @8205 has 16 MA's), (2, 8220), (3, 8226), (4, 8241), (5, 8247), (6, 8265), (7, 8268), (8, 8289), (9, 8301), (10, 8313), (11, 8331), (12, 8337), (13, 8409), (14, 8445), (15, 8484), (16, 8496),

Gene: RedRaider77_28 Start: 7789, Stop: 8112, Start Num: 1

Candidate Starts for RedRaider77_28:

(Start: 1 @7789 has 16 MA's), (2, 7804), (3, 7810), (4, 7825), (5, 7831), (6, 7849), (7, 7852), (8, 7873), (9, 7885), (10, 7897), (11, 7915), (12, 7921), (13, 7993), (14, 8029), (15, 8068), (16, 8080),

Gene: Tesla_27 Start: 7641, Stop: 7961, Start Num: 1

Candidate Starts for Tesla_27:

(Start: 1 @7641 has 16 MA's), (2, 7656), (3, 7662), (4, 7677), (5, 7683), (6, 7701), (7, 7704), (8, 7725), (9, 7737), (10, 7749), (11, 7767), (12, 7773), (13, 7845), (14, 7881), (15, 7920), (16, 7932),

Gene: VasuNzinga_27 Start: 7225, Stop: 7545, Start Num: 1

Candidate Starts for VasuNzinga_27:

(Start: 1 @7225 has 16 MA's), (2, 7240), (3, 7246), (4, 7261), (5, 7267), (6, 7285), (7, 7288), (8, 7309), (9, 7321), (10, 7333), (11, 7351), (12, 7357), (13, 7429), (14, 7465), (15, 7504), (16, 7516),