



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 278611 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278611 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Beelzebub_33, JoieB_30, VasuNzinga_29, LittleLaf_29, Lilbit_29, Corazon_28, Tesla_29, Huphlepuuff_31, Clarkson_30, Pringar_29, Caprice_26, FeliMaine_30
- Track 2 : Raela_30, Blackbeetle_30, Poise_30, MosMoris_28, Gattaca_29
- Track 3 : GoongGoong_29
- Track 4 : RedRaider77_30
- Track 5 : Marvin_28

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

The start number called the most often in the published annotations is 3, it was called in 17 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_33, Blackbeetle_30, Caprice_26, Clarkson_30, Corazon_28, FeliMaine_30, Gattaca_29, Huphlepuuff_31, JoieB_30, Lilbit_29, LittleLaf_29, MosMoris_28, Poise_30, Pringar_29, Raela_30, RedRaider77_30, Tesla_29, VasuNzinga_29,

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

- GoongGoong_29, Marvin_28,

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

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Summary by start number:

Start 3:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 17 of 18
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_33 (S), Blackbeetle_30 (S), Caprice_26 (S), Clarkson_30 (S), Corazon_28 (S), FeliMaine_30 (S), Gattaca_29 (S), Huphlepuuff_31 (S), JoieB_30 (S), Lilbit_29 (S), LittleLaf_29 (S), MosMoris_28 (S),

Poise_30 (S), Pringar_29 (S), Raela_30 (S), RedRaider77_30 (S), Tesla_29 (S), VasuNzinga_29 (S),

Start 4:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Marvin_28 (S),

Start 5:

- Found in 20 of 20 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 5.0% of time when present
- Phage (with cluster) where this start called: GoongGoong_29 (S),

Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 3 was manually annotated 17 times for cluster S.
- Start number 4 was manually annotated 1 time for cluster S.

Gene Information:

Gene: Beelzebub_33 Start: 8896, Stop: 9183, Start Num: 3

Candidate Starts for Beelzebub_33:

(1, 8677), (Start: 3 @8896 has 17 MA's), (Start: 4 @8929 has 1 MA's), (5, 8977), (8, 9103), (9, 9115), (10, 9127),

Gene: Blackbeetle_30 Start: 8232, Stop: 8519, Start Num: 3

Candidate Starts for Blackbeetle_30:

(1, 8013), (2, 8070), (Start: 3 @8232 has 17 MA's), (Start: 4 @8265 has 1 MA's), (5, 8313), (6, 8346), (7, 8388), (9, 8451), (10, 8463),

Gene: Caprice_26 Start: 7460, Stop: 7747, Start Num: 3

Candidate Starts for Caprice_26:

(1, 7241), (Start: 3 @7460 has 17 MA's), (Start: 4 @7493 has 1 MA's), (5, 7541), (8, 7667), (9, 7679), (10, 7691),

Gene: Clarkson_30 Start: 8597, Stop: 8884, Start Num: 3

Candidate Starts for Clarkson_30:

(1, 8378), (Start: 3 @8597 has 17 MA's), (Start: 4 @8630 has 1 MA's), (5, 8678), (8, 8804), (9, 8816), (10, 8828),

Gene: Corazon_28 Start: 8550, Stop: 8837, Start Num: 3

Candidate Starts for Corazon_28:

(1, 8331), (Start: 3 @8550 has 17 MA's), (Start: 4 @8583 has 1 MA's), (5, 8631), (8, 8757), (9, 8769), (10, 8781),

Gene: FeliMaine_30 Start: 8598, Stop: 8885, Start Num: 3

Candidate Starts for FeliMaine_30:

(1, 8379), (Start: 3 @8598 has 17 MA's), (Start: 4 @8631 has 1 MA's), (5, 8679), (8, 8805), (9, 8817), (10, 8829),

Gene: Gattaca_29 Start: 8121, Stop: 8408, Start Num: 3

Candidate Starts for Gattaca_29:

(1, 7902), (2, 7959), (Start: 3 @8121 has 17 MA's), (Start: 4 @8154 has 1 MA's), (5, 8202), (6, 8235), (7, 8277), (9, 8340), (10, 8352),

Gene: GoongGoong_29 Start: 8215, Stop: 8421, Start Num: 5

Candidate Starts for GoongGoong_29:

(1, 7915), (2, 7972), (Start: 3 @8134 has 17 MA's), (Start: 4 @8167 has 1 MA's), (5, 8215), (6, 8248), (7, 8290), (9, 8353), (10, 8365),

Gene: Huphlebuff_31 Start: 8402, Stop: 8689, Start Num: 3

Candidate Starts for Huphlebuff_31:

(1, 8183), (Start: 3 @8402 has 17 MA's), (Start: 4 @8435 has 1 MA's), (5, 8483), (8, 8609), (9, 8621), (10, 8633),

Gene: JoieB_30 Start: 8621, Stop: 8908, Start Num: 3

Candidate Starts for JoieB_30:

(1, 8402), (Start: 3 @8621 has 17 MA's), (Start: 4 @8654 has 1 MA's), (5, 8702), (8, 8828), (9, 8840), (10, 8852),

Gene: Lilbit_29 Start: 8598, Stop: 8885, Start Num: 3

Candidate Starts for Lilbit_29:

(1, 8379), (Start: 3 @8598 has 17 MA's), (Start: 4 @8631 has 1 MA's), (5, 8679), (8, 8805), (9, 8817), (10, 8829),

Gene: LittleLaf_29 Start: 8327, Stop: 8614, Start Num: 3

Candidate Starts for LittleLaf_29:

(1, 8108), (Start: 3 @8327 has 17 MA's), (Start: 4 @8360 has 1 MA's), (5, 8408), (8, 8534), (9, 8546), (10, 8558),

Gene: Marvin_28 Start: 8630, Stop: 8884, Start Num: 4

Candidate Starts for Marvin_28:

(1, 8378), (Start: 3 @8597 has 17 MA's), (Start: 4 @8630 has 1 MA's), (5, 8678), (8, 8804), (9, 8816), (10, 8828),

Gene: MosMoris_28 Start: 8121, Stop: 8408, Start Num: 3

Candidate Starts for MosMoris_28:

(1, 7902), (2, 7959), (Start: 3 @8121 has 17 MA's), (Start: 4 @8154 has 1 MA's), (5, 8202), (6, 8235), (7, 8277), (9, 8340), (10, 8352),

Gene: Poise_30 Start: 8232, Stop: 8519, Start Num: 3

Candidate Starts for Poise_30:

(1, 8013), (2, 8070), (Start: 3 @8232 has 17 MA's), (Start: 4 @8265 has 1 MA's), (5, 8313), (6, 8346), (7, 8388), (9, 8451), (10, 8463),

Gene: Pringar_29 Start: 8227, Stop: 8514, Start Num: 3

Candidate Starts for Pringar_29:

(1, 8008), (Start: 3 @8227 has 17 MA's), (Start: 4 @8260 has 1 MA's), (5, 8308), (8, 8434), (9, 8446), (10, 8458),

Gene: Raela_30 Start: 8787, Stop: 9074, Start Num: 3

Candidate Starts for Raela_30:

(1, 8568), (2, 8625), (Start: 3 @8787 has 17 MA's), (Start: 4 @8820 has 1 MA's), (5, 8868), (6, 8901), (7, 8943), (9, 9006), (10, 9018),

Gene: RedRaider77_30 Start: 8371, Stop: 8658, Start Num: 3

Candidate Starts for RedRaider77_30:

(1, 8152), (2, 8209), (Start: 3 @8371 has 17 MA's), (Start: 4 @8404 has 1 MA's), (5, 8452), (8, 8578), (9, 8590), (10, 8602),

Gene: Tesla_29 Start: 8220, Stop: 8507, Start Num: 3

Candidate Starts for Tesla_29:

(1, 8001), (Start: 3 @8220 has 17 MA's), (Start: 4 @8253 has 1 MA's), (5, 8301), (8, 8427), (9, 8439), (10, 8451),

Gene: VasuNzinga_29 Start: 7804, Stop: 8091, Start Num: 3

Candidate Starts for VasuNzinga_29:

(1, 7585), (Start: 3 @7804 has 17 MA's), (Start: 4 @7837 has 1 MA's), (5, 7885), (8, 8011), (9, 8023), (10, 8035),