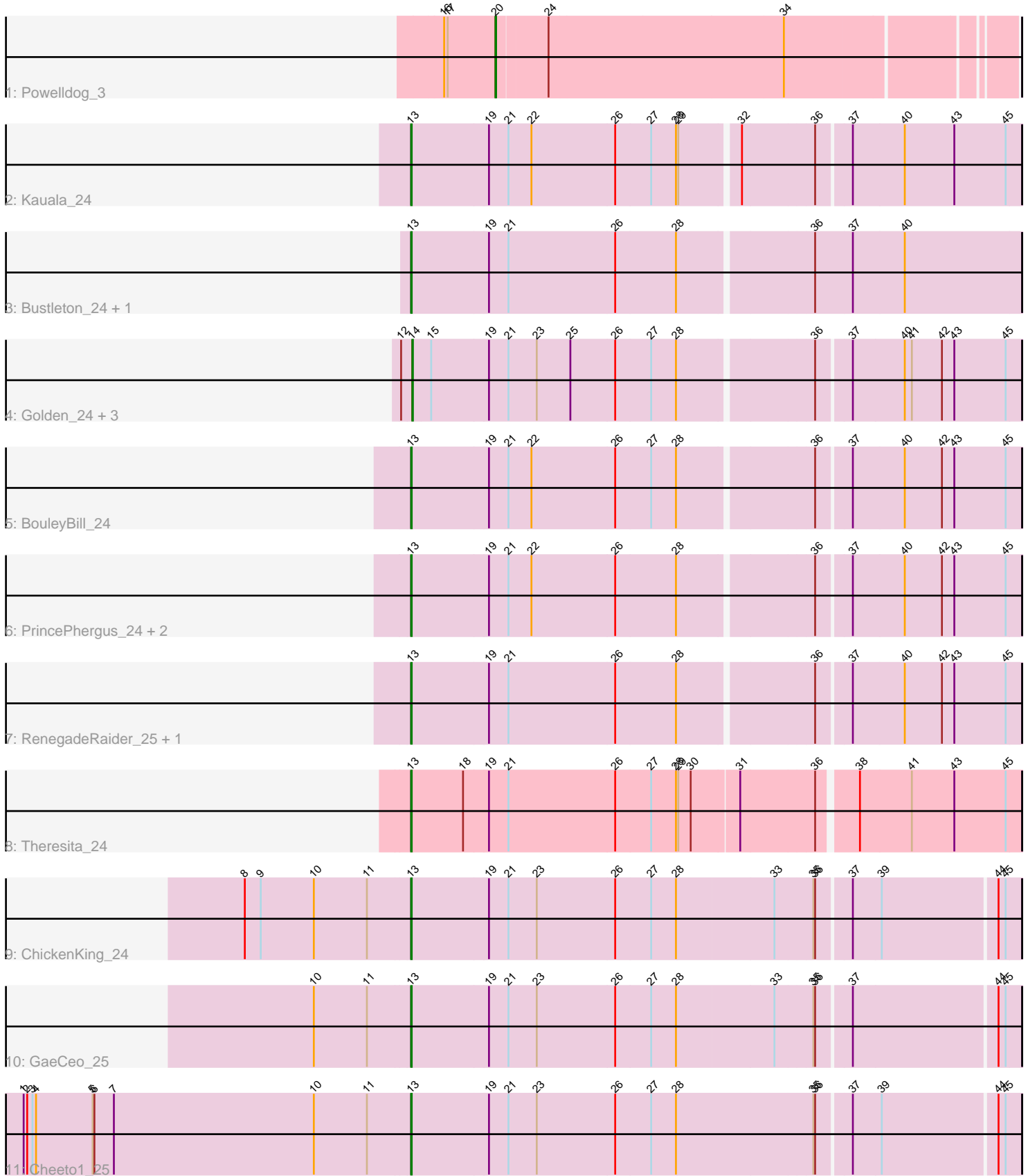


Pham 295158



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 295158 Report

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

Pham number 295158 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Powelldog_3
- Track 2 : Kauala_24
- Track 3 : Bustleton_24, Pherbot_24
- Track 4 : Golden_24, SirVictor_24, Lucky3_24, Guetzie_24
- Track 5 : BouleyBill_24
- Track 6 : PrincePhergus_24, Sinatra_24, Jingles_24
- Track 7 : RenegadeRaider_25, Koji_24
- Track 8 : Theresita_24
- Track 9 : ChickenKing_24
- Track 10 : GaeCeo_25
- Track 11 : Cheeto1_25

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

The start number called the most often in the published annotations is 13, it was called in 11 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BouleyBill_24, Bustleton_24, Cheeto1_25, ChickenKing_24, GaeCeo_25, Jingles_24, Kauala_24, Koji_24, Pherbot_24, PrincePhergus_24, RenegadeRaider_25, Sinatra_24, Theresita_24,

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

-

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

- Golden_24, Guetzie_24, Lucky3_24, Powelldog_3, SirVictor_24,

Summary by start number:

Start 13:

- Found in 13 of 18 (72.2%) of genes in pham
- Manual Annotations of this start: 11 of 16
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BouleyBill_24 (EA4), Bustleton_24 (EA4), Cheeto1_25 (EA9), ChickenKing_24 (EA9), GaeCeo_25 (EA9), Jingles_24 (EA4), Kauala_24 (EA4), Koji_24 (EA4), Pherbot_24 (EA4), PrincePhergus_24 (EA4), RenegadeRaider_25 (EA4), Sinatra_24 (EA4), Theresita_24 (EA7),

Start 14:

- Found in 4 of 18 (22.2%) of genes in pham
- Manual Annotations of this start: 4 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Golden_24 (EA4), Guetzie_24 (EA4), Lucky3_24 (EA4), SirVictor_24 (EA4),

Start 20:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Powelldog_3 (AW),

Summary by clusters:

There are 4 clusters represented in this pham: EA9, AW, EA4, EA7,

Info for manual annotations of cluster AW:

- Start number 20 was manually annotated 1 time for cluster AW.

Info for manual annotations of cluster EA4:

- Start number 13 was manually annotated 7 times for cluster EA4.
- Start number 14 was manually annotated 4 times for cluster EA4.

Info for manual annotations of cluster EA7:

- Start number 13 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA9:

- Start number 13 was manually annotated 3 times for cluster EA9.

Gene Information:

Gene: BouleyBill_24 Start: 18629, Stop: 19621, Start Num: 13

Candidate Starts for BouleyBill_24:

(Start: 13 @18629 has 11 MA's), (19, 18758), (21, 18791), (22, 18830), (26, 18971), (27, 19031), (28, 19073), (36, 19286), (37, 19337), (40, 19424), (42, 19487), (43, 19508), (45, 19595),

Gene: Bustleton_24 Start: 18617, Stop: 19621, Start Num: 13

Candidate Starts for Bustleton_24:

(Start: 13 @18617 has 11 MA's), (19, 18746), (21, 18779), (26, 18959), (28, 19061), (36, 19274), (37, 19337), (40, 19424),

Gene: Cheeto1_25 Start: 18442, Stop: 19443, Start Num: 13

Candidate Starts for Cheeto1_25:

(1, 17788), (2, 17794), (3, 17803), (4, 17809), (5, 17905), (6, 17908), (7, 17941), (10, 18280), (11, 18370), (Start: 13 @18442 has 11 MA's), (19, 18571), (21, 18604), (23, 18652), (26, 18784), (27,

18844), (28, 18886), (35, 19111), (36, 19114), (37, 19168), (39, 19216), (44, 19405), (45, 19417),

Gene: ChickenKing_24 Start: 18340, Stop: 19338, Start Num: 13

Candidate Starts for ChickenKing_24:

(8, 18061), (9, 18088), (10, 18178), (11, 18268), (Start: 13 @18340 has 11 MA's), (19, 18469), (21, 18502), (23, 18550), (26, 18682), (27, 18742), (28, 18784), (33, 18946), (35, 19006), (36, 19009), (37, 19063), (39, 19111), (44, 19300), (45, 19312),

Gene: GaeCeo_25 Start: 18513, Stop: 19511, Start Num: 13

Candidate Starts for GaeCeo_25:

(10, 18351), (11, 18441), (Start: 13 @18513 has 11 MA's), (19, 18642), (21, 18675), (23, 18723), (26, 18855), (27, 18915), (28, 18957), (33, 19119), (35, 19179), (36, 19182), (37, 19236), (44, 19473), (45, 19485),

Gene: Golden_24 Start: 18704, Stop: 19696, Start Num: 14

Candidate Starts for Golden_24:

(12, 18686), (Start: 14 @18704 has 4 MA's), (15, 18734), (19, 18830), (21, 18863), (23, 18911), (25, 18968), (26, 19043), (27, 19103), (28, 19145), (36, 19358), (37, 19412), (40, 19499), (41, 19511), (42, 19562), (43, 19583), (45, 19670),

Gene: Guetzie_24 Start: 18692, Stop: 19684, Start Num: 14

Candidate Starts for Guetzie_24:

(12, 18674), (Start: 14 @18692 has 4 MA's), (15, 18722), (19, 18818), (21, 18851), (23, 18899), (25, 18956), (26, 19031), (27, 19091), (28, 19133), (36, 19346), (37, 19400), (40, 19487), (41, 19499), (42, 19550), (43, 19571), (45, 19658),

Gene: Jingles_24 Start: 18630, Stop: 19625, Start Num: 13

Candidate Starts for Jingles_24:

(Start: 13 @18630 has 11 MA's), (19, 18759), (21, 18792), (22, 18831), (26, 18972), (28, 19074), (36, 19287), (37, 19341), (40, 19428), (42, 19491), (43, 19512), (45, 19599),

Gene: Kauala_24 Start: 18628, Stop: 19623, Start Num: 13

Candidate Starts for Kauala_24:

(Start: 13 @18628 has 11 MA's), (19, 18757), (21, 18790), (22, 18829), (26, 18970), (27, 19030), (28, 19072), (29, 19075), (32, 19168), (36, 19285), (37, 19339), (40, 19426), (43, 19510), (45, 19597),

Gene: Koji_24 Start: 18752, Stop: 19747, Start Num: 13

Candidate Starts for Koji_24:

(Start: 13 @18752 has 11 MA's), (19, 18881), (21, 18914), (26, 19094), (28, 19196), (36, 19409), (37, 19463), (40, 19550), (42, 19613), (43, 19634), (45, 19721),

Gene: Lucky3_24 Start: 18704, Stop: 19696, Start Num: 14

Candidate Starts for Lucky3_24:

(12, 18686), (Start: 14 @18704 has 4 MA's), (15, 18734), (19, 18830), (21, 18863), (23, 18911), (25, 18968), (26, 19043), (27, 19103), (28, 19145), (36, 19358), (37, 19412), (40, 19499), (41, 19511), (42, 19562), (43, 19583), (45, 19670),

Gene: Pherbot_24 Start: 18616, Stop: 19620, Start Num: 13

Candidate Starts for Pherbot_24:

(Start: 13 @18616 has 11 MA's), (19, 18745), (21, 18778), (26, 18958), (28, 19060), (36, 19273), (37, 19336), (40, 19423),

Gene: Powelldog_3 Start: 1471, Stop: 2301, Start Num: 20

Candidate Starts for Powelldog_3:

(16, 1384), (17, 1390), (Start: 20 @1471 has 1 MA's), (24, 1552), (34, 1942),

Gene: PrincePhergus_24 Start: 18622, Stop: 19617, Start Num: 13

Candidate Starts for PrincePhergus_24:

(Start: 13 @18622 has 11 MA's), (19, 18751), (21, 18784), (22, 18823), (26, 18964), (28, 19066), (36, 19279), (37, 19333), (40, 19420), (42, 19483), (43, 19504), (45, 19591),

Gene: RenegadeRaider_25 Start: 18621, Stop: 19613, Start Num: 13

Candidate Starts for RenegadeRaider_25:

(Start: 13 @18621 has 11 MA's), (19, 18750), (21, 18783), (26, 18963), (28, 19065), (36, 19278), (37, 19329), (40, 19416), (42, 19479), (43, 19500), (45, 19587),

Gene: Sinatra_24 Start: 18619, Stop: 19614, Start Num: 13

Candidate Starts for Sinatra_24:

(Start: 13 @18619 has 11 MA's), (19, 18748), (21, 18781), (22, 18820), (26, 18961), (28, 19063), (36, 19276), (37, 19330), (40, 19417), (42, 19480), (43, 19501), (45, 19588),

Gene: SirVictor_24 Start: 18692, Stop: 19684, Start Num: 14

Candidate Starts for SirVictor_24:

(12, 18674), (Start: 14 @18692 has 4 MA's), (15, 18722), (19, 18818), (21, 18851), (23, 18899), (25, 18956), (26, 19031), (27, 19091), (28, 19133), (36, 19346), (37, 19400), (40, 19487), (41, 19499), (42, 19550), (43, 19571), (45, 19658),

Gene: Theresita_24 Start: 18223, Stop: 19221, Start Num: 13

Candidate Starts for Theresita_24:

(Start: 13 @18223 has 11 MA's), (18, 18310), (19, 18352), (21, 18385), (26, 18565), (27, 18625), (28, 18667), (29, 18670), (30, 18691), (31, 18769), (36, 18889), (38, 18949), (41, 19036), (43, 19108), (45, 19195),