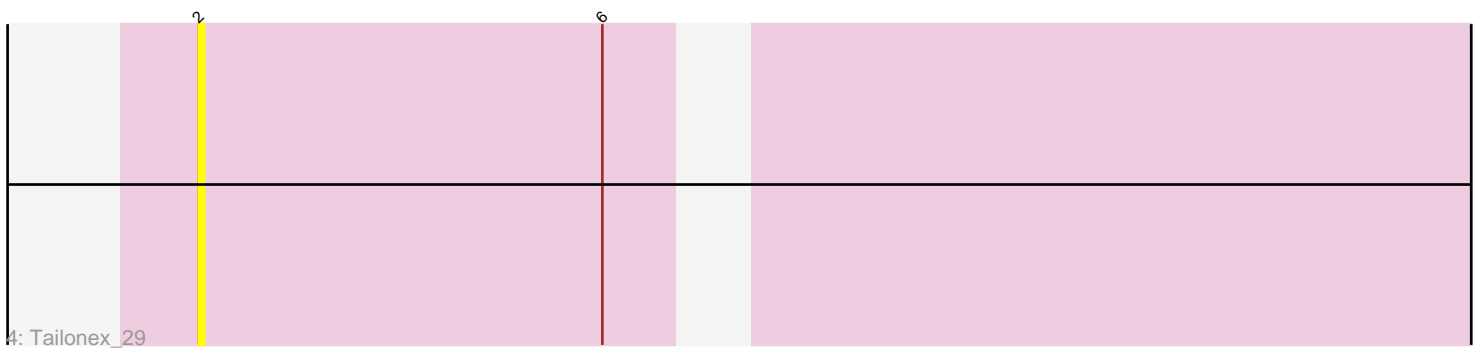
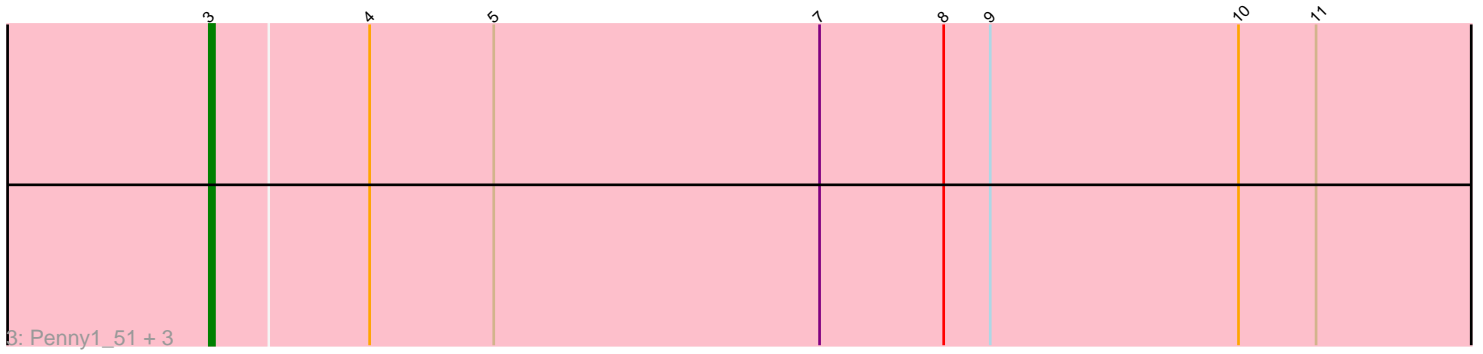
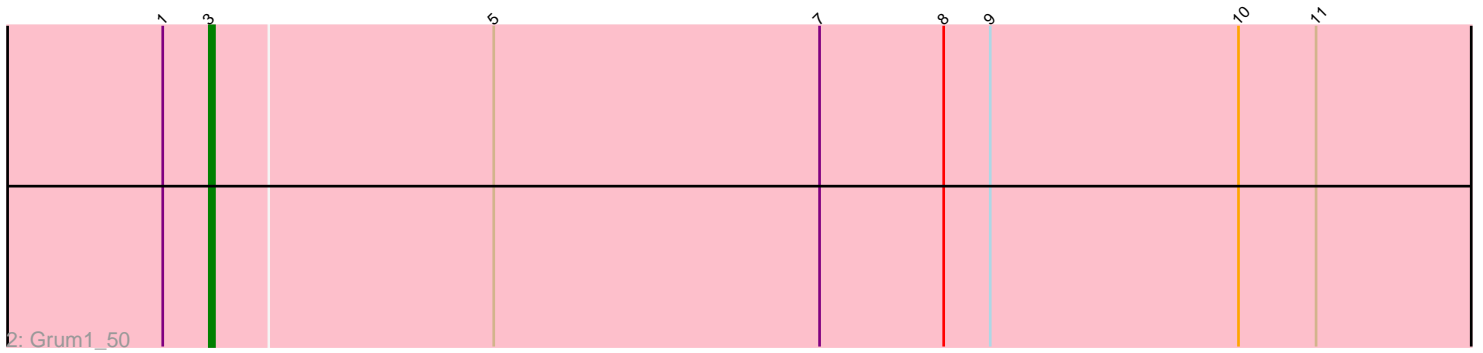
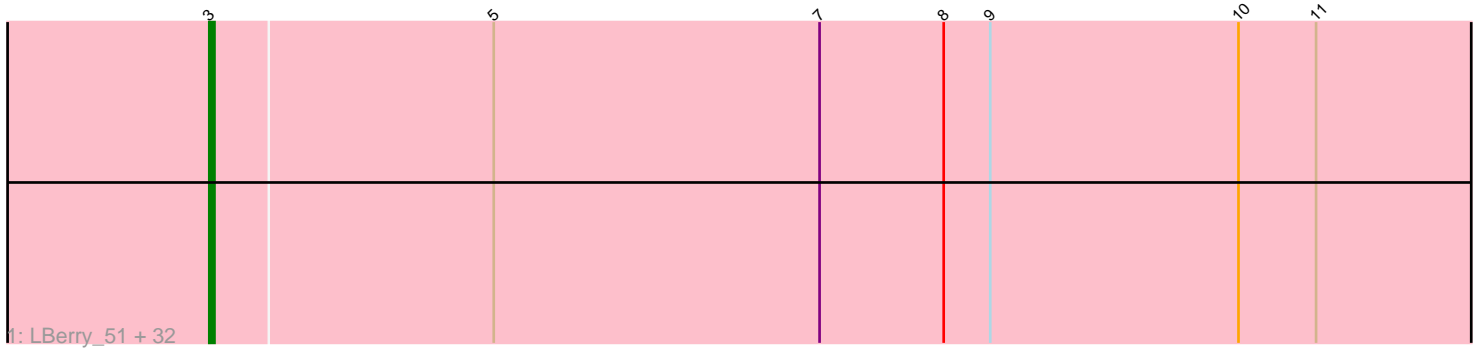


Pham 292962



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 292962 Report

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

Pham number 292962 has 39 members, 5 are drafts.

Phages represented in each track:

- Track 1 : LBerry\_51, Snickers\_50, StepMih\_50, SoYo\_50, Sabinator\_49, Mainiac\_50, P28Green\_51, Montavir\_49, Stagni\_50, Croquant\_51, Fernando\_50, PotatoSplit\_52, Phoebe\_51, Grif\_50, Sabia\_50, Cullens\_50, BreSam8\_50, Bigflo\_50, JHC117\_50, GtownJaz\_50, Dieselweasel\_51, MoneyMay\_50, LugYA\_53, Hercules11\_50, JenCasNa\_51, MarQuardt\_50, Tiffany\_50, Marie\_50, Vix\_50, Colbster\_50, Taurus\_51, Wooldri\_52, Anubis\_53
- Track 2 : Grum1\_50
- Track 3 : Penny1\_51, Gwennie\_49, Beauxregard13\_50, EpicPhail\_51
- Track 4 : Tailonex\_29

### ***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 34 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anubis\_53, Beauxregard13\_50, Bigflo\_50, BreSam8\_50, Colbster\_50, Croquant\_51, Cullens\_50, Dieselweasel\_51, EpicPhail\_51, Fernando\_50, Grif\_50, Grum1\_50, GtownJaz\_50, Gwennie\_49, Hercules11\_50, JHC117\_50, JenCasNa\_51, LBerry\_51, LugYA\_53, Mainiac\_50, MarQuardt\_50, Marie\_50, MoneyMay\_50, Montavir\_49, P28Green\_51, Penny1\_51, Phoebe\_51, PotatoSplit\_52, Sabia\_50, Sabinator\_49, Snickers\_50, SoYo\_50, Stagni\_50, StepMih\_50, Taurus\_51, Tiffany\_50, Vix\_50, Wooldri\_52,

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

- 

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

- Tailonex\_29,

### **Summary by start number:**

Start 2:

- Found in 1 of 39 ( 2.6% ) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tailonex\_29 (singleton),

#### Start 3:

- Found in 38 of 39 ( 97.4% ) of genes in pham
- Manual Annotations of this start: 34 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anubis\_53 (A3), Beauxregard13\_50 (A3), Bigflo\_50 (A3), BreSam8\_50 (A3), Colbster\_50 (A3), Croquant\_51 (A3), Cullens\_50 (A3), Dieselweasel\_51 (A3), EpicPhail\_51 (A3), Fernando\_50 (A3), Grif\_50 (A3), Grum1\_50 (A3), GtownJaz\_50 (A3), Gwennie\_49 (A3), Hercules11\_50 (A3), JHC117\_50 (A3), JenCasNa\_51 (A3), LBerry\_51 (A3), LugYA\_53 (A3), Mainiac\_50 (A3), MarQuardt\_50 (A3), Marie\_50 (A3), MoneyMay\_50 (A3), Montavir\_49 (A3), P28Green\_51 (A3), Penny1\_51 (A3), Phoebe\_51 (A3), PotatoSplit\_52 (A3), Sabia\_50 (A3), Sabinator\_49 (A3), Snickers\_50 (A3), SoYo\_50 (A3), Stagni\_50 (A3), StepMih\_50 (A3), Taurus\_51 (A3), Tiffany\_50 (A3), Vix\_50 (A3), Wooldri\_52 (A3),

#### Summary by clusters:

There are 2 clusters represented in this pham: A3, singleton,

Info for manual annotations of cluster A3:

- Start number 3 was manually annotated 34 times for cluster A3.

#### **Gene Information:**

Gene: Anubis\_53 Start: 32195, Stop: 31947, Start Num: 3

Candidate Starts for Anubis\_53:

(Start: 3 @32195 has 34 MA's), (5, 32141), (7, 32078), (8, 32054), (9, 32045), (10, 31997), (11, 31982),

Gene: Beauxregard13\_50 Start: 32312, Stop: 32064, Start Num: 3

Candidate Starts for Beauxregard13\_50:

(Start: 3 @32312 has 34 MA's), (4, 32282), (5, 32258), (7, 32195), (8, 32171), (9, 32162), (10, 32114), (11, 32099),

Gene: Bigflo\_50 Start: 32308, Stop: 32060, Start Num: 3

Candidate Starts for Bigflo\_50:

(Start: 3 @32308 has 34 MA's), (5, 32254), (7, 32191), (8, 32167), (9, 32158), (10, 32110), (11, 32095),

Gene: BreSam8\_50 Start: 32302, Stop: 32054, Start Num: 3

Candidate Starts for BreSam8\_50:

(Start: 3 @32302 has 34 MA's), (5, 32248), (7, 32185), (8, 32161), (9, 32152), (10, 32104), (11, 32089),

Gene: Colbster\_50 Start: 32312, Stop: 32064, Start Num: 3

Candidate Starts for Colbster\_50:

(Start: 3 @32312 has 34 MA's), (5, 32258), (7, 32195), (8, 32171), (9, 32162), (10, 32114), (11, 32099),

Gene: Croquant\_51 Start: 32307, Stop: 32059, Start Num: 3

Candidate Starts for Croquant\_51:

(Start: 3 @32307 has 34 MA's), (5, 32253), (7, 32190), (8, 32166), (9, 32157), (10, 32109), (11, 32094),

Gene: Cullens\_50 Start: 32308, Stop: 32060, Start Num: 3

Candidate Starts for Cullens\_50:

(Start: 3 @32308 has 34 MA's), (5, 32254), (7, 32191), (8, 32167), (9, 32158), (10, 32110), (11, 32095),

Gene: Dieselweasel\_51 Start: 32311, Stop: 32063, Start Num: 3

Candidate Starts for Dieselweasel\_51:

(Start: 3 @32311 has 34 MA's), (5, 32257), (7, 32194), (8, 32170), (9, 32161), (10, 32113), (11, 32098),

Gene: EpicPhail\_51 Start: 32312, Stop: 32064, Start Num: 3

Candidate Starts for EpicPhail\_51:

(Start: 3 @32312 has 34 MA's), (4, 32282), (5, 32258), (7, 32195), (8, 32171), (9, 32162), (10, 32114), (11, 32099),

Gene: Fernando\_50 Start: 32308, Stop: 32060, Start Num: 3

Candidate Starts for Fernando\_50:

(Start: 3 @32308 has 34 MA's), (5, 32254), (7, 32191), (8, 32167), (9, 32158), (10, 32110), (11, 32095),

Gene: Grif\_50 Start: 32383, Stop: 32135, Start Num: 3

Candidate Starts for Grif\_50:

(Start: 3 @32383 has 34 MA's), (5, 32329), (7, 32266), (8, 32242), (9, 32233), (10, 32185), (11, 32170),

Gene: Grum1\_50 Start: 32308, Stop: 32060, Start Num: 3

Candidate Starts for Grum1\_50:

(1, 32317), (Start: 3 @32308 has 34 MA's), (5, 32254), (7, 32191), (8, 32167), (9, 32158), (10, 32110), (11, 32095),

Gene: GtownJaz\_50 Start: 32310, Stop: 32062, Start Num: 3

Candidate Starts for GtownJaz\_50:

(Start: 3 @32310 has 34 MA's), (5, 32256), (7, 32193), (8, 32169), (9, 32160), (10, 32112), (11, 32097),

Gene: Gwennie\_49 Start: 32312, Stop: 32064, Start Num: 3

Candidate Starts for Gwennie\_49:

(Start: 3 @32312 has 34 MA's), (4, 32282), (5, 32258), (7, 32195), (8, 32171), (9, 32162), (10, 32114), (11, 32099),

Gene: Hercules11\_50 Start: 32317, Stop: 32069, Start Num: 3

Candidate Starts for Hercules11\_50:

(Start: 3 @32317 has 34 MA's), (5, 32263), (7, 32200), (8, 32176), (9, 32167), (10, 32119), (11, 32104),

Gene: JHC117\_50 Start: 32307, Stop: 32059, Start Num: 3

Candidate Starts for JHC117\_50:

(Start: 3 @32307 has 34 MA's), (5, 32253), (7, 32190), (8, 32166), (9, 32157), (10, 32109), (11, 32094),

Gene: JenCasNa\_51 Start: 32308, Stop: 32060, Start Num: 3

Candidate Starts for JenCasNa\_51:

(Start: 3 @32308 has 34 MA's), (5, 32254), (7, 32191), (8, 32167), (9, 32158), (10, 32110), (11, 32095),

Gene: LBerry\_51 Start: 32312, Stop: 32064, Start Num: 3

Candidate Starts for LBerry\_51:

(Start: 3 @32312 has 34 MA's), (5, 32258), (7, 32195), (8, 32171), (9, 32162), (10, 32114), (11, 32099),

Gene: LugYA\_53 Start: 32309, Stop: 32061, Start Num: 3  
Candidate Starts for LugYA\_53:  
(Start: 3 @32309 has 34 MA's), (5, 32255), (7, 32192), (8, 32168), (9, 32159), (10, 32111), (11, 32096),

Gene: Mainiac\_50 Start: 32302, Stop: 32054, Start Num: 3  
Candidate Starts for Mainiac\_50:  
(Start: 3 @32302 has 34 MA's), (5, 32248), (7, 32185), (8, 32161), (9, 32152), (10, 32104), (11, 32089),

Gene: MarQuardt\_50 Start: 32310, Stop: 32062, Start Num: 3  
Candidate Starts for MarQuardt\_50:  
(Start: 3 @32310 has 34 MA's), (5, 32256), (7, 32193), (8, 32169), (9, 32160), (10, 32112), (11, 32097),

Gene: Marie\_50 Start: 32308, Stop: 32060, Start Num: 3  
Candidate Starts for Marie\_50:  
(Start: 3 @32308 has 34 MA's), (5, 32254), (7, 32191), (8, 32167), (9, 32158), (10, 32110), (11, 32095),

Gene: MoneyMay\_50 Start: 32308, Stop: 32060, Start Num: 3  
Candidate Starts for MoneyMay\_50:  
(Start: 3 @32308 has 34 MA's), (5, 32254), (7, 32191), (8, 32167), (9, 32158), (10, 32110), (11, 32095),

Gene: Montavir\_49 Start: 32309, Stop: 32061, Start Num: 3  
Candidate Starts for Montavir\_49:  
(Start: 3 @32309 has 34 MA's), (5, 32255), (7, 32192), (8, 32168), (9, 32159), (10, 32111), (11, 32096),

Gene: P28Green\_51 Start: 32311, Stop: 32063, Start Num: 3  
Candidate Starts for P28Green\_51:  
(Start: 3 @32311 has 34 MA's), (5, 32257), (7, 32194), (8, 32170), (9, 32161), (10, 32113), (11, 32098),

Gene: Penny1\_51 Start: 32312, Stop: 32064, Start Num: 3  
Candidate Starts for Penny1\_51:  
(Start: 3 @32312 has 34 MA's), (4, 32282), (5, 32258), (7, 32195), (8, 32171), (9, 32162), (10, 32114), (11, 32099),

Gene: Phoebe\_51 Start: 32301, Stop: 32053, Start Num: 3  
Candidate Starts for Phoebe\_51:  
(Start: 3 @32301 has 34 MA's), (5, 32247), (7, 32184), (8, 32160), (9, 32151), (10, 32103), (11, 32088),

Gene: PotatoSplit\_52 Start: 32312, Stop: 32064, Start Num: 3  
Candidate Starts for PotatoSplit\_52:  
(Start: 3 @32312 has 34 MA's), (5, 32258), (7, 32195), (8, 32171), (9, 32162), (10, 32114), (11, 32099),

Gene: Sabia\_50 Start: 32302, Stop: 32054, Start Num: 3  
Candidate Starts for Sabia\_50:  
(Start: 3 @32302 has 34 MA's), (5, 32248), (7, 32185), (8, 32161), (9, 32152), (10, 32104), (11, 32089),

Gene: Sabinator\_49 Start: 32307, Stop: 32059, Start Num: 3  
Candidate Starts for Sabinator\_49:  
(Start: 3 @32307 has 34 MA's), (5, 32253), (7, 32190), (8, 32166), (9, 32157), (10, 32109), (11, 32094),

Gene: Snickers\_50 Start: 32282, Stop: 32034, Start Num: 3  
Candidate Starts for Snickers\_50:  
(Start: 3 @32282 has 34 MA's), (5, 32228), (7, 32165), (8, 32141), (9, 32132), (10, 32084), (11, 32069),

Gene: SoYo\_50 Start: 32220, Stop: 31972, Start Num: 3

Candidate Starts for SoYo\_50:

(Start: 3 @32220 has 34 MA's), (5, 32166), (7, 32103), (8, 32079), (9, 32070), (10, 32022), (11, 32007),

Gene: Stagni\_50 Start: 32311, Stop: 32063, Start Num: 3

Candidate Starts for Stagni\_50:

(Start: 3 @32311 has 34 MA's), (5, 32257), (7, 32194), (8, 32170), (9, 32161), (10, 32113), (11, 32098),

Gene: StepMih\_50 Start: 32302, Stop: 32054, Start Num: 3

Candidate Starts for StepMih\_50:

(Start: 3 @32302 has 34 MA's), (5, 32248), (7, 32185), (8, 32161), (9, 32152), (10, 32104), (11, 32089),

Gene: Tailonex\_29 Start: 27177, Stop: 26944, Start Num: 2

Candidate Starts for Tailonex\_29:

(2, 27177), (6, 27099),

Gene: Taurus\_51 Start: 32308, Stop: 32060, Start Num: 3

Candidate Starts for Taurus\_51:

(Start: 3 @32308 has 34 MA's), (5, 32254), (7, 32191), (8, 32167), (9, 32158), (10, 32110), (11, 32095),

Gene: Tiffany\_50 Start: 32194, Stop: 31946, Start Num: 3

Candidate Starts for Tiffany\_50:

(Start: 3 @32194 has 34 MA's), (5, 32140), (7, 32077), (8, 32053), (9, 32044), (10, 31996), (11, 31981),

Gene: Vix\_50 Start: 32391, Stop: 32143, Start Num: 3

Candidate Starts for Vix\_50:

(Start: 3 @32391 has 34 MA's), (5, 32337), (7, 32274), (8, 32250), (9, 32241), (10, 32193), (11, 32178),

Gene: Wooldri\_52 Start: 32220, Stop: 31972, Start Num: 3

Candidate Starts for Wooldri\_52:

(Start: 3 @32220 has 34 MA's), (5, 32166), (7, 32103), (8, 32079), (9, 32070), (10, 32022), (11, 32007),