



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 2992 Report

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

Pham number 2992 has 32 members, 4 are drafts.

Phages represented in each track:

- Track 1 : FreddyB\_89, DmpstrDiver\_79, Zelink\_76, Ejimix\_78, Superphikiman\_76, NihilNomen\_79, Brocalys\_72, Bagrid\_79, Kalah2\_73, Lizziana\_84, Hughesyang\_78, Squint\_79, Cabrinians\_79, Beem\_78, Phoebus\_81, MiaZeal\_79, Dallas\_77, Lucky2013\_76, Odette\_77, Priscilla\_77, Crumble\_76, ThreeRngTarjay\_76, SwagPiggett\_83, Ariel\_78, Redno2\_75, Porcelain\_78, BobaPhett\_82, Schatzie\_74
- Track 2 : Dove\_66, LastJedi\_71, Bombitas\_68, Halley\_80

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

The start number called the most often in the published annotations is 2, it was called in 25 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel\_78, Bagrid\_79, Beem\_78, BobaPhett\_82, Brocalys\_72, Cabrinians\_79, Crumble\_76, Dallas\_77, DmpstrDiver\_79, Ejimix\_78, FreddyB\_89, Hughesyang\_78, Kalah2\_73, Lizziana\_84, Lucky2013\_76, MiaZeal\_79, NihilNomen\_79, Odette\_77, Phoebus\_81, Porcelain\_78, Priscilla\_77, Redno2\_75, Schatzie\_74, Squint\_79, Superphikiman\_76, SwagPiggett\_83, ThreeRngTarjay\_76, Zelink\_76,

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

- Bombitas\_68, Dove\_66, Halley\_80, LastJedi\_71,

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

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

Start 1:

- Found in 32 of 32 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Bombitas\_68 (J), Dove\_66 (J), Halley\_80 (J), LastJedi\_71 (F1),

Start 2:

- Found in 32 of 32 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 25 of 28
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Ariel\_78 (J), Bagrid\_79 (J), Beem\_78 (J), BobaPhett\_82 (F1), Brocalys\_72 (F1), Cabrinians\_79 (F1), Crumble\_76 (F1), Dallas\_77 (J), DmpstrDiver\_79 (J), Ejimix\_78 (J), FreddyB\_89 (F1), Hughesyang\_78 (J), Kalah2\_73 (J), Lizziana\_84 (F1), Lucky2013\_76 (J), MiaZeal\_79 (J), NihilNomen\_79 (J), Odette\_77 (J), Phoebus\_81 (J), Porcelain\_78 (J), Priscilla\_77 (F1), Redno2\_75 (J), Schatzie\_74 (J), Squint\_79 (J), Superphikiman\_76 (J), SwagPiggett\_83 (F1), ThreeRngTarjay\_76 (J), Zelink\_76 (J),

### **Summary by clusters:**

There are 2 clusters represented in this pham: F1, J,

Info for manual annotations of cluster F1:

- Start number 1 was manually annotated 1 time for cluster F1.
- Start number 2 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 2 times for cluster J.
- Start number 2 was manually annotated 18 times for cluster J.

### **Gene Information:**

Gene: Ariel\_78 Start: 48168, Stop: 48076, Start Num: 2

Candidate Starts for Ariel\_78:

(Start: 1 @48171 has 3 MA's), (Start: 2 @48168 has 25 MA's), (3, 48099),

Gene: Bagrid\_79 Start: 51584, Stop: 51492, Start Num: 2

Candidate Starts for Bagrid\_79:

(Start: 1 @51587 has 3 MA's), (Start: 2 @51584 has 25 MA's), (3, 51515),

Gene: Beem\_78 Start: 52445, Stop: 52353, Start Num: 2

Candidate Starts for Beem\_78:

(Start: 1 @52448 has 3 MA's), (Start: 2 @52445 has 25 MA's), (3, 52376),

Gene: BobaPhett\_82 Start: 51155, Stop: 51247, Start Num: 2

Candidate Starts for BobaPhett\_82:

(Start: 1 @51152 has 3 MA's), (Start: 2 @51155 has 25 MA's), (3, 51224),

Gene: Bombitas\_68 Start: 49611, Stop: 49516, Start Num: 1

Candidate Starts for Bombitas\_68:

(Start: 1 @49611 has 3 MA's), (Start: 2 @49608 has 25 MA's), (3, 49539),

Gene: Brocalys\_72 Start: 46635, Stop: 46727, Start Num: 2

Candidate Starts for Brocalys\_72:

(Start: 1 @46632 has 3 MA's), (Start: 2 @46635 has 25 MA's), (3, 46704),

Gene: Cabrinians\_79 Start: 48555, Stop: 48647, Start Num: 2

Candidate Starts for Cabrinians\_79:

(Start: 1 @48552 has 3 MA's), (Start: 2 @48555 has 25 MA's), (3, 48624),

Gene: Crumble\_76 Start: 45280, Stop: 45372, Start Num: 2

Candidate Starts for Crumble\_76:

(Start: 1 @45277 has 3 MA's), (Start: 2 @45280 has 25 MA's), (3, 45349),

Gene: Dallas\_77 Start: 51366, Stop: 51274, Start Num: 2

Candidate Starts for Dallas\_77:

(Start: 1 @51369 has 3 MA's), (Start: 2 @51366 has 25 MA's), (3, 51297),

Gene: DmpstrDiver\_79 Start: 51792, Stop: 51700, Start Num: 2

Candidate Starts for DmpstrDiver\_79:

(Start: 1 @51795 has 3 MA's), (Start: 2 @51792 has 25 MA's), (3, 51723),

Gene: Dove\_66 Start: 47877, Stop: 47782, Start Num: 1

Candidate Starts for Dove\_66:

(Start: 1 @47877 has 3 MA's), (Start: 2 @47874 has 25 MA's), (3, 47805),

Gene: Ejimix\_78 Start: 53234, Stop: 53142, Start Num: 2

Candidate Starts for Ejimix\_78:

(Start: 1 @53237 has 3 MA's), (Start: 2 @53234 has 25 MA's), (3, 53165),

Gene: FreddyB\_89 Start: 50202, Stop: 50294, Start Num: 2

Candidate Starts for FreddyB\_89:

(Start: 1 @50199 has 3 MA's), (Start: 2 @50202 has 25 MA's), (3, 50271),

Gene: Halley\_80 Start: 52448, Stop: 52353, Start Num: 1

Candidate Starts for Halley\_80:

(Start: 1 @52448 has 3 MA's), (Start: 2 @52445 has 25 MA's), (3, 52376),

Gene: Hughesyang\_78 Start: 52403, Stop: 52311, Start Num: 2

Candidate Starts for Hughesyang\_78:

(Start: 1 @52406 has 3 MA's), (Start: 2 @52403 has 25 MA's), (3, 52334),

Gene: Kalah2\_73 Start: 51738, Stop: 51646, Start Num: 2

Candidate Starts for Kalah2\_73:

(Start: 1 @51741 has 3 MA's), (Start: 2 @51738 has 25 MA's), (3, 51669),

Gene: LastJedi\_71 Start: 47026, Stop: 47121, Start Num: 1

Candidate Starts for LastJedi\_71:

(Start: 1 @47026 has 3 MA's), (Start: 2 @47029 has 25 MA's), (3, 47098),

Gene: Lizziana\_84 Start: 50278, Stop: 50370, Start Num: 2

Candidate Starts for Lizziana\_84:

(Start: 1 @50275 has 3 MA's), (Start: 2 @50278 has 25 MA's), (3, 50347),

Gene: Lucky2013\_76 Start: 48184, Stop: 48092, Start Num: 2

Candidate Starts for Lucky2013\_76:

(Start: 1 @48187 has 3 MA's), (Start: 2 @48184 has 25 MA's), (3, 48115),

Gene: MiaZeal\_79 Start: 48840, Stop: 48748, Start Num: 2

Candidate Starts for MiaZeal\_79:

(Start: 1 @48843 has 3 MA's), (Start: 2 @48840 has 25 MA's), (3, 48771),

Gene: NihilNomen\_79 Start: 52532, Stop: 52440, Start Num: 2

Candidate Starts for NihilNomen\_79:

(Start: 1 @52535 has 3 MA's), (Start: 2 @52532 has 25 MA's), (3, 52463),

Gene: Odette\_77 Start: 51574, Stop: 51482, Start Num: 2

Candidate Starts for Odette\_77:

(Start: 1 @51577 has 3 MA's), (Start: 2 @51574 has 25 MA's), (3, 51505),

Gene: Phoebus\_81 Start: 53714, Stop: 53622, Start Num: 2

Candidate Starts for Phoebus\_81:

(Start: 1 @53717 has 3 MA's), (Start: 2 @53714 has 25 MA's), (3, 53645),

Gene: Porcelain\_78 Start: 48840, Stop: 48748, Start Num: 2

Candidate Starts for Porcelain\_78:

(Start: 1 @48843 has 3 MA's), (Start: 2 @48840 has 25 MA's), (3, 48771),

Gene: Priscilla\_77 Start: 48566, Stop: 48658, Start Num: 2

Candidate Starts for Priscilla\_77:

(Start: 1 @48563 has 3 MA's), (Start: 2 @48566 has 25 MA's), (3, 48635),

Gene: Redno2\_75 Start: 49328, Stop: 49236, Start Num: 2

Candidate Starts for Redno2\_75:

(Start: 1 @49331 has 3 MA's), (Start: 2 @49328 has 25 MA's), (3, 49259),

Gene: Schatzie\_74 Start: 51321, Stop: 51229, Start Num: 2

Candidate Starts for Schatzie\_74:

(Start: 1 @51324 has 3 MA's), (Start: 2 @51321 has 25 MA's), (3, 51252),

Gene: Squint\_79 Start: 48959, Stop: 48867, Start Num: 2

Candidate Starts for Squint\_79:

(Start: 1 @48962 has 3 MA's), (Start: 2 @48959 has 25 MA's), (3, 48890),

Gene: Superphikiman\_76 Start: 48050, Stop: 47958, Start Num: 2

Candidate Starts for Superphikiman\_76:

(Start: 1 @48053 has 3 MA's), (Start: 2 @48050 has 25 MA's), (3, 47981),

Gene: SwagPiggett\_83 Start: 50785, Stop: 50877, Start Num: 2

Candidate Starts for SwagPiggett\_83:

(Start: 1 @50782 has 3 MA's), (Start: 2 @50785 has 25 MA's), (3, 50854),

Gene: ThreeRngTarjay\_76 Start: 52606, Stop: 52514, Start Num: 2

Candidate Starts for ThreeRngTarjay\_76:

(Start: 1 @52609 has 3 MA's), (Start: 2 @52606 has 25 MA's), (3, 52537),

Gene: Zelink\_76 Start: 52918, Stop: 52826, Start Num: 2

Candidate Starts for Zelink\_76:

(Start: 1 @52921 has 3 MA's), (Start: 2 @52918 has 25 MA's), (3, 52849),