



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 305267 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305267 has 25 members, 16 are drafts.

Phages represented in each track:

- Track 1 : BobaPhatt\_22, Phox\_24, Montpel\_24, EasyJones\_24, JulietS\_20, Lunareta\_24, Sprinklers\_25, Turret\_23, Sebata\_25, BackyardAgain\_22, Lethe\_24
- Track 2 : Primadonna\_20, Substance289\_22, DeejaClivia\_21, Fongie\_24, Maturis\_25, Blackdragon\_20, Spec\_22, Fixie\_22, Duckfeet\_22, Belieber\_21
- Track 3 : Vortrix\_32, Tonenili\_30
- Track 4 : Halldule\_21, Bezza\_17

### ***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 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BackyardAgain\_22, BobaPhatt\_22, EasyJones\_24, JulietS\_20, Lethe\_24, Lunareta\_24, Montpel\_24, Phox\_24, Sebata\_25, Sprinklers\_25, Turret\_23,

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

- Belieber\_21, Blackdragon\_20, DeejaClivia\_21, Duckfeet\_22, Fixie\_22, Fongie\_24, Maturis\_25, Primadonna\_20, Spec\_22, Substance289\_22, Tonenili\_30, Vortrix\_32,

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

- Bezza\_17, Halldule\_21,

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

Start 2:

- Found in 23 of 25 ( 92.0% ) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 47.8% of time when present
- Phage (with cluster) where this start called: BackyardAgain\_22 (C1), BobaPhatt\_22 (C1), EasyJones\_24 (C1), JulietS\_20 (C1), Lethe\_24 (C1), Lunareta\_24 (C1), Montpel\_24 (C1), Phox\_24 (C1), Sebata\_25 (C1), Sprinklers\_25 (C1), Turret\_23 (C1),

Start 5:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 56.0% of time when present
- Phage (with cluster) where this start called: Belieber\_21 (C1), Bezza\_17 (C1), Blackdragon\_20 (C1), DeejaClivia\_21 (C1), Duckfeet\_22 (C1), Fixie\_22 (C1), Fongie\_24 (C1), Halldule\_21 (C1), Maturis\_25 (C1), Primadonna\_20 (C1), Spec\_22 (C1), Substance289\_22 (C1), Tonenili\_30 (C1), Vortrix\_32 (C1),

### Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 2 was manually annotated 8 times for cluster C1.
- Start number 5 was manually annotated 1 time for cluster C1.

### Gene Information:

Gene: BackyardAgain\_22 Start: 7200, Stop: 7499, Start Num: 2

Candidate Starts for BackyardAgain\_22:

(1, 7152), (Start: 2 @7200 has 8 MA's), (4, 7212), (Start: 5 @7215 has 1 MA's),

Gene: Belieber\_21 Start: 6975, Stop: 7259, Start Num: 5

Candidate Starts for Belieber\_21:

(1, 6912), (Start: 2 @6960 has 8 MA's), (4, 6972), (Start: 5 @6975 has 1 MA's),

Gene: Bezza\_17 Start: 6854, Stop: 7138, Start Num: 5

Candidate Starts for Bezza\_17:

(3, 6839), (4, 6851), (Start: 5 @6854 has 1 MA's),

Gene: Blackdragon\_20 Start: 6822, Stop: 7106, Start Num: 5

Candidate Starts for Blackdragon\_20:

(1, 6759), (Start: 2 @6807 has 8 MA's), (4, 6819), (Start: 5 @6822 has 1 MA's),

Gene: BobaPhatt\_22 Start: 7204, Stop: 7503, Start Num: 2

Candidate Starts for BobaPhatt\_22:

(1, 7156), (Start: 2 @7204 has 8 MA's), (4, 7216), (Start: 5 @7219 has 1 MA's),

Gene: DeejaClivia\_21 Start: 6864, Stop: 7148, Start Num: 5

Candidate Starts for DeejaClivia\_21:

(1, 6801), (Start: 2 @6849 has 8 MA's), (4, 6861), (Start: 5 @6864 has 1 MA's),

Gene: Duckfeet\_22 Start: 7515, Stop: 7799, Start Num: 5

Candidate Starts for Duckfeet\_22:

(1, 7452), (Start: 2 @7500 has 8 MA's), (4, 7512), (Start: 5 @7515 has 1 MA's),

Gene: EasyJones\_24 Start: 6941, Stop: 7240, Start Num: 2

Candidate Starts for EasyJones\_24:

(1, 6893), (Start: 2 @6941 has 8 MA's), (4, 6953), (Start: 5 @6956 has 1 MA's),

Gene: Fixie\_22 Start: 6956, Stop: 7240, Start Num: 5

Candidate Starts for Fixie\_22:

(1, 6893), (Start: 2 @6941 has 8 MA's), (4, 6953), (Start: 5 @6956 has 1 MA's),

Gene: Fongie\_24 Start: 8332, Stop: 8616, Start Num: 5

Candidate Starts for Fongie\_24:

(1, 8269), (Start: 2 @8317 has 8 MA's), (4, 8329), (Start: 5 @8332 has 1 MA's),

Gene: Halldule\_21 Start: 6575, Stop: 6859, Start Num: 5

Candidate Starts for Halldule\_21:

(3, 6560), (4, 6572), (Start: 5 @6575 has 1 MA's),

Gene: JulietS\_20 Start: 6185, Stop: 6484, Start Num: 2

Candidate Starts for JulietS\_20:

(1, 6137), (Start: 2 @6185 has 8 MA's), (4, 6197), (Start: 5 @6200 has 1 MA's),

Gene: Lethe\_24 Start: 8010, Stop: 8309, Start Num: 2

Candidate Starts for Lethe\_24:

(1, 7962), (Start: 2 @8010 has 8 MA's), (4, 8022), (Start: 5 @8025 has 1 MA's),

Gene: Lunareta\_24 Start: 8026, Stop: 8349, Start Num: 2

Candidate Starts for Lunareta\_24:

(1, 7978), (Start: 2 @8026 has 8 MA's), (4, 8038), (Start: 5 @8041 has 1 MA's),

Gene: Maturis\_25 Start: 8104, Stop: 8388, Start Num: 5

Candidate Starts for Maturis\_25:

(1, 8041), (Start: 2 @8089 has 8 MA's), (4, 8101), (Start: 5 @8104 has 1 MA's),

Gene: Montpel\_24 Start: 8026, Stop: 8349, Start Num: 2

Candidate Starts for Montpel\_24:

(1, 7978), (Start: 2 @8026 has 8 MA's), (4, 8038), (Start: 5 @8041 has 1 MA's),

Gene: Phox\_24 Start: 8475, Stop: 8774, Start Num: 2

Candidate Starts for Phox\_24:

(1, 8427), (Start: 2 @8475 has 8 MA's), (4, 8487), (Start: 5 @8490 has 1 MA's),

Gene: Primadonna\_20 Start: 7425, Stop: 7709, Start Num: 5

Candidate Starts for Primadonna\_20:

(1, 7362), (Start: 2 @7410 has 8 MA's), (4, 7422), (Start: 5 @7425 has 1 MA's),

Gene: Sebata\_25 Start: 8661, Stop: 8960, Start Num: 2

Candidate Starts for Sebata\_25:

(1, 8613), (Start: 2 @8661 has 8 MA's), (4, 8673), (Start: 5 @8676 has 1 MA's),

Gene: Spec\_22 Start: 7254, Stop: 7538, Start Num: 5

Candidate Starts for Spec\_22:

(1, 7191), (Start: 2 @7239 has 8 MA's), (4, 7251), (Start: 5 @7254 has 1 MA's),

Gene: Sprinklers\_25 Start: 7800, Stop: 8099, Start Num: 2

Candidate Starts for Sprinklers\_25:

(1, 7752), (Start: 2 @7800 has 8 MA's), (4, 7812), (Start: 5 @7815 has 1 MA's),

Gene: Substance289\_22 Start: 7254, Stop: 7538, Start Num: 5

Candidate Starts for Substance289\_22:

(1, 7191), (Start: 2 @7239 has 8 MA's), (4, 7251), (Start: 5 @7254 has 1 MA's),

Gene: Tonenili\_30 Start: 9490, Stop: 9759, Start Num: 5

Candidate Starts for Tonenili\_30:

(1, 9427), (Start: 2 @9475 has 8 MA's), (4, 9487), (Start: 5 @9490 has 1 MA's), (6, 9499), (7, 9562), (8, 9574),

Gene: Turret\_23 Start: 6939, Stop: 7238, Start Num: 2

Candidate Starts for Turret\_23:

(1, 6891), (Start: 2 @6939 has 8 MA's), (4, 6951), (Start: 5 @6954 has 1 MA's),

Gene: Vortrix\_32 Start: 9952, Stop: 10221, Start Num: 5

Candidate Starts for Vortrix\_32:

(1, 9889), (Start: 2 @9937 has 8 MA's), (4, 9949), (Start: 5 @9952 has 1 MA's), (6, 9961), (7, 10024), (8, 10036),