



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 203416 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203416 has 15 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Sarge\_9
- Track 2 : Alatato\_8
- Track 3 : MargaretKali\_10
- Track 4 : Shoya\_8
- Track 5 : Pigu\_9
- Track 6 : BrayBeast\_9
- Track 7 : Kumotta\_10
- Track 8 : NoSwimming\_11
- Track 9 : Scotia\_11
- Track 10 : CocoCinnamon\_12
- Track 11 : Maja\_9
- Track 12 : JanetJ\_10
- Track 13 : EvenBluerMoon\_11
- Track 14 : Aoka\_10
- Track 15 : PrairieDogTown\_15

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alatato\_8, Aoka\_10, BrayBeast\_9, CocoCinnamon\_12, EvenBluerMoon\_11, JanetJ\_10, Kumotta\_10, Maja\_9, MargaretKali\_10, NoSwimming\_11, Pigu\_9, Sarge\_9, Scotia\_11, Shoya\_8,

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

- PrairieDogTown\_15,

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

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

Start 4:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 8
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Alata\_8 (FB), Aoka\_10 (FO), BrayBeast\_9 (FB), CocoCinnamon\_12 (FO), EvenBluerMoon\_11 (FO), JanetJ\_10 (FO), Kumotta\_10 (FB), Maja\_9 (FO), MargaretKali\_10 (FB), NoSwimming\_11 (FO), Pigu\_9 (FB), Sarge\_9 (FB), Scotia\_11 (FO), Shoya\_8 (FB),

Start 5:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: PrairieDogTown\_15 (FO),

**Summary by clusters:**

There are 2 clusters represented in this pham: FB, FO,

Info for manual annotations of cluster FB:

- Start number 4 was manually annotated 5 times for cluster FB.

Info for manual annotations of cluster FO:

- Start number 4 was manually annotated 3 times for cluster FO.

**Gene Information:**

Gene: Alata\_8 Start: 6552, Stop: 6920, Start Num: 4

Candidate Starts for Alata\_8:

(Start: 4 @6552 has 8 MA's), (5, 6561), (9, 6651), (10, 6657), (12, 6735), (16, 6780), (20, 6876), (22, 6909),

Gene: Aoka\_10 Start: 8106, Stop: 8438, Start Num: 4

Candidate Starts for Aoka\_10:

(Start: 4 @8106 has 8 MA's), (5, 8115),

Gene: BrayBeast\_9 Start: 7001, Stop: 7333, Start Num: 4

Candidate Starts for BrayBeast\_9:

(Start: 4 @7001 has 8 MA's), (5, 7010), (8, 7079), (15, 7223), (19, 7250), (22, 7322),

Gene: CocoCinnamon\_12 Start: 8205, Stop: 8576, Start Num: 4

Candidate Starts for CocoCinnamon\_12:

(Start: 4 @8205 has 8 MA's), (5, 8214), (12, 8388), (17, 8448), (19, 8493), (21, 8556), (22, 8565),

Gene: EvenBluerMoon\_11 Start: 8140, Stop: 8472, Start Num: 4

Candidate Starts for EvenBluerMoon\_11:

(Start: 4 @8140 has 8 MA's), (5, 8149),

Gene: JanetJ\_10 Start: 7922, Stop: 8254, Start Num: 4

Candidate Starts for JanetJ\_10:

(Start: 4 @7922 has 8 MA's), (5, 7931),

Gene: Kumotta\_10 Start: 7839, Stop: 8171, Start Num: 4

Candidate Starts for Kumotta\_10:

(Start: 4 @7839 has 8 MA's), (5, 7848), (6, 7860), (7, 7863), (11, 8004), (12, 8019), (16, 8064), (19, 8088), (21, 8151), (22, 8160),

Gene: Maja\_9 Start: 7424, Stop: 7792, Start Num: 4

Candidate Starts for Maja\_9:

(Start: 4 @7424 has 8 MA's), (5, 7433), (12, 7607), (13, 7610), (15, 7649), (16, 7652), (18, 7685), (19, 7709), (21, 7772), (22, 7781),

Gene: MargaretKali\_10 Start: 7474, Stop: 7806, Start Num: 4

Candidate Starts for MargaretKali\_10:

(Start: 4 @7474 has 8 MA's), (5, 7483), (6, 7495), (11, 7639), (12, 7654), (14, 7678), (16, 7699), (21, 7786), (22, 7795),

Gene: NoSwimming\_11 Start: 9047, Stop: 9415, Start Num: 4

Candidate Starts for NoSwimming\_11:

(1, 8651), (2, 8879), (Start: 4 @9047 has 8 MA's), (5, 9056), (16, 9275), (19, 9332),

Gene: Pigu\_9 Start: 6514, Stop: 6882, Start Num: 4

Candidate Starts for Pigu\_9:

(3, 6511), (Start: 4 @6514 has 8 MA's), (5, 6523), (6, 6535), (12, 6694), (17, 6754), (19, 6799), (21, 6862), (22, 6871),

Gene: PrairieDogTown\_15 Start: 8151, Stop: 8474, Start Num: 5

Candidate Starts for PrairieDogTown\_15:

(Start: 4 @8142 has 8 MA's), (5, 8151),

Gene: Sarge\_9 Start: 6912, Stop: 7244, Start Num: 4

Candidate Starts for Sarge\_9:

(Start: 4 @6912 has 8 MA's), (5, 6921), (8, 6990), (15, 7134), (16, 7137), (19, 7161), (22, 7233),

Gene: Scotia\_11 Start: 9053, Stop: 9421, Start Num: 4

Candidate Starts for Scotia\_11:

(1, 8657), (2, 8885), (Start: 4 @9053 has 8 MA's), (5, 9062), (16, 9281), (19, 9338),

Gene: Shoya\_8 Start: 6548, Stop: 6880, Start Num: 4

Candidate Starts for Shoya\_8:

(Start: 4 @6548 has 8 MA's), (5, 6557), (8, 6626), (14, 6752), (15, 6770), (19, 6797), (22, 6869),