



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 295274 Report

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

Pham number 295274 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : PascalRango\_68
- Track 2 : Forsytheast\_64, GageAP\_64, Moose\_64, NEHalo\_60, Bruns\_64, SwissCheese\_66, SpikeBT\_61, AFIS\_59
- Track 3 : Sanya\_67
- Track 4 : Crispicous1\_60

### ***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 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AFIS\_59, Bruns\_64, Crispicous1\_60, Forsytheast\_64, GageAP\_64, Moose\_64, NEHalo\_60, SpikeBT\_61, SwissCheese\_66,

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

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

- PascalRango\_68, Sanya\_67,

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

Start 4:

- Found in 9 of 11 ( 81.8% ) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AFIS\_59 (A1), Bruns\_64 (A1), Crispicous1\_60 (A1), Forsytheast\_64 (A1), GageAP\_64 (A1), Moose\_64 (A1), NEHalo\_60 (A1), SpikeBT\_61 (A1), SwissCheese\_66 (A1),

Start 8:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 1 of 10

- Called 100.0% of time when present
- Phage (with cluster) where this start called: PascalRango\_68 (A1), Sanya\_67 (A1),

### **Summary by clusters:**

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 4 was manually annotated 9 times for cluster A1.
- Start number 8 was manually annotated 1 time for cluster A1.

### **Gene Information:**

Gene: AFIS\_59 Start: 40536, Stop: 39979, Start Num: 4

Candidate Starts for AFIS\_59:

(Start: 4 @40536 has 9 MA's), (5, 40494), (6, 40476), (9, 40392), (10, 40374), (14, 40323), (15, 40269), (19, 40167), (22, 39999),

Gene: Bruns\_64 Start: 41012, Stop: 40455, Start Num: 4

Candidate Starts for Bruns\_64:

(Start: 4 @41012 has 9 MA's), (5, 40970), (6, 40952), (9, 40868), (10, 40850), (14, 40799), (15, 40745), (19, 40643), (22, 40475),

Gene: Crispicous1\_60 Start: 40522, Stop: 39992, Start Num: 4

Candidate Starts for Crispicous1\_60:

(Start: 4 @40522 has 9 MA's), (6, 40462), (12, 40348), (16, 40186), (17, 40168), (18, 40159), (21, 40051),

Gene: Forsytheast\_64 Start: 41180, Stop: 40623, Start Num: 4

Candidate Starts for Forsytheast\_64:

(Start: 4 @41180 has 9 MA's), (5, 41138), (6, 41120), (9, 41036), (10, 41018), (14, 40967), (15, 40913), (19, 40811), (22, 40643),

Gene: GageAP\_64 Start: 42203, Stop: 41646, Start Num: 4

Candidate Starts for GageAP\_64:

(Start: 4 @42203 has 9 MA's), (5, 42161), (6, 42143), (9, 42059), (10, 42041), (14, 41990), (15, 41936), (19, 41834), (22, 41666),

Gene: Moose\_64 Start: 41180, Stop: 40623, Start Num: 4

Candidate Starts for Moose\_64:

(Start: 4 @41180 has 9 MA's), (5, 41138), (6, 41120), (9, 41036), (10, 41018), (14, 40967), (15, 40913), (19, 40811), (22, 40643),

Gene: NEHalo\_60 Start: 41604, Stop: 41047, Start Num: 4

Candidate Starts for NEHalo\_60:

(Start: 4 @41604 has 9 MA's), (5, 41562), (6, 41544), (9, 41460), (10, 41442), (14, 41391), (15, 41337), (19, 41235), (22, 41067),

Gene: PascalRango\_68 Start: 44439, Stop: 44059, Start Num: 8

Candidate Starts for PascalRango\_68:

(1, 44637), (2, 44625), (3, 44607), (7, 44466), (Start: 8 @44439 has 1 MA's), (11, 44400), (13, 44370), (20, 44157),

Gene: Sanya\_67 Start: 45283, Stop: 44903, Start Num: 8

Candidate Starts for Sanya\_67:

(1, 45481), (2, 45469), (3, 45451), (7, 45310), (Start: 8 @45283 has 1 MA's), (11, 45244), (13, 45214), (20, 45001),

Gene: SpikeBT\_61 Start: 41461, Stop: 40904, Start Num: 4

Candidate Starts for SpikeBT\_61:

(Start: 4 @41461 has 9 MA's), (5, 41419), (6, 41401), (9, 41317), (10, 41299), (14, 41248), (15, 41194), (19, 41092), (22, 40924),

Gene: SwissCheese\_66 Start: 41680, Stop: 41123, Start Num: 4

Candidate Starts for SwissCheese\_66:

(Start: 4 @41680 has 9 MA's), (5, 41638), (6, 41620), (9, 41536), (10, 41518), (14, 41467), (15, 41413), (19, 41311), (22, 41143),