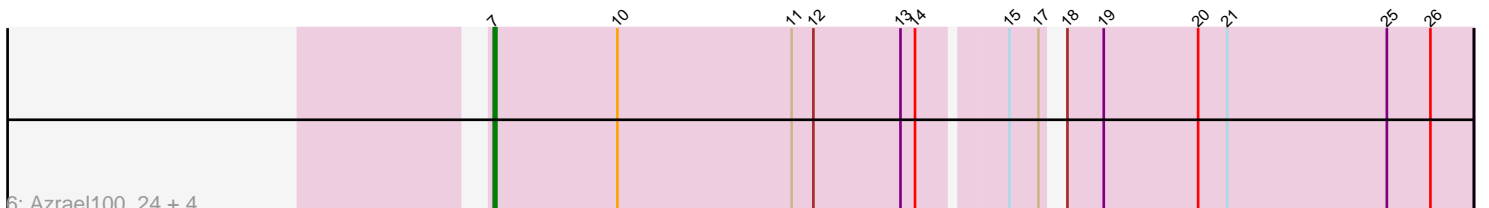
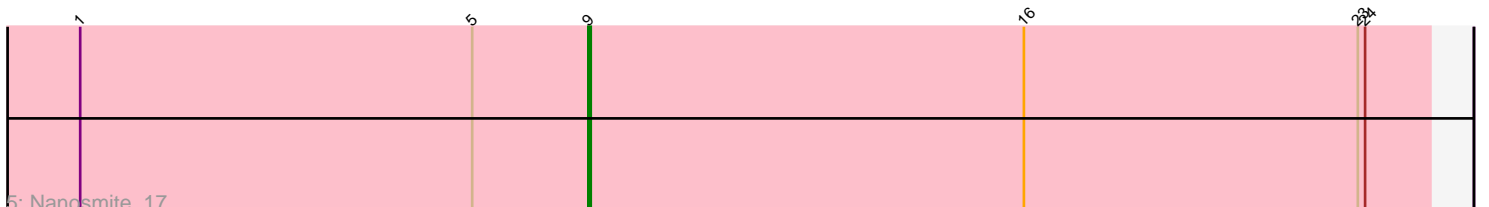
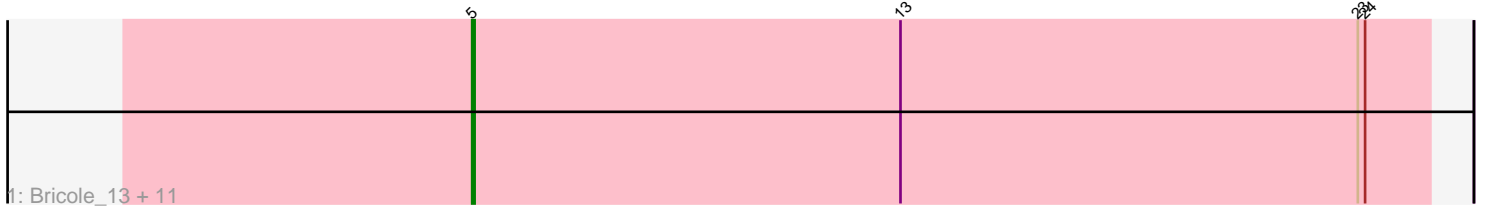


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 194283 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194283 has 26 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Bricole\_13, Dulcita\_14, IPhane7\_13, Bongo\_13, Skinny\_14, Glaske16\_14, SlimJimmy\_12, Diminimus\_14, LilhomieP\_12, PegLeg\_13, TyDawg\_13, Auspice\_13
- Track 2 : Reindeer\_11
- Track 3 : GardenSalsa\_17, Aziz\_17, GenevaB15\_17, MrMagoo\_17, Estes\_18
- Track 4 : Rey\_17
- Track 5 : Nanosmite\_17
- Track 6 : Azrael100\_24, EniyanLRS\_22, Cosmo\_25, MaryV\_25, Wildcat\_25
- Track 7 : Kumao\_12

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

The start number called the most often in the published annotations is 5, it was called in 13 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice\_13, Bongo\_13, Bricole\_13, Diminimus\_14, Dulcita\_14, Glaske16\_14, IPhane7\_13, LilhomieP\_12, PegLeg\_13, Reindeer\_11, Skinny\_14, SlimJimmy\_12, TyDawg\_13,

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

- Aziz\_17, Estes\_18, GardenSalsa\_17, GenevaB15\_17, MrMagoo\_17, Nanosmite\_17, Rey\_17,

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

- Azrael100\_24, Cosmo\_25, EniyanLRS\_22, Kumao\_12, MaryV\_25, Wildcat\_25,

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

Start 5:

- Found in 20 of 26 ( 76.9% ) of genes in pham
- Manual Annotations of this start: 13 of 26
- Called 65.0% of time when present
- Phage (with cluster) where this start called: Auspice\_13 (M1), Bongo\_13 (M1), Bricole\_13 (M1), Diminimus\_14 (M1), Dulcita\_14 (M1), Glaske16\_14 (M1),

IPhane7\_13 (M1), LilhomieP\_12 (M1), PegLeg\_13 (M1), Reindeer\_11 (M1),  
Skinny\_14 (M1), SlimJimmy\_12 (M1), TyDawg\_13 (M1),

Start 7:

- Found in 5 of 26 ( 19.2% ) of genes in pham
- Manual Annotations of this start: 5 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100\_24 (V), Cosmo\_25 (V), EniyanLRS\_22 (V), MaryV\_25 (V), Wildcat\_25 (V),

Start 9:

- Found in 7 of 26 ( 26.9% ) of genes in pham
- Manual Annotations of this start: 7 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aziz\_17 (M2), Estes\_18 (M2), GardenSalsa\_17 (M2), GenevaB15\_17 (M2), MrMagoo\_17 (M2), Nanosmite\_17 (M3), Rey\_17 (M2),

Start 10:

- Found in 6 of 26 ( 23.1% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Kumao\_12 (singleton),

### **Summary by clusters:**

There are 5 clusters represented in this pham: singleton, M2, M1, M3, V,

Info for manual annotations of cluster M1:

- Start number 5 was manually annotated 13 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 9 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 9 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:

- Start number 7 was manually annotated 5 times for cluster V.

### **Gene Information:**

Gene: Auspice\_13 Start: 4298, Stop: 4693, Start Num: 5

Candidate Starts for Auspice\_13:

(Start: 5 @4298 has 13 MA's), (13, 4475), (23, 4664), (24, 4667),

Gene: Aziz\_17 Start: 4947, Stop: 5294, Start Num: 9

Candidate Starts for Aziz\_17:

(Start: 5 @4899 has 13 MA's), (Start: 9 @4947 has 7 MA's), (13, 5076), (14, 5082), (15, 5121), (18, 5145), (23, 5265), (24, 5268),

Gene: Azrael100\_24 Start: 7714, Stop: 8103, Start Num: 7

Candidate Starts for Azrael100\_24:

(Start: 7 @7714 has 5 MA's), (Start: 10 @7765 has 1 MA's), (11, 7837), (12, 7846), (13, 7882), (14, 7888), (15, 7921), (17, 7933), (18, 7936), (19, 7951), (20, 7990), (21, 8002), (25, 8068), (26, 8086),

Gene: Bongo\_13 Start: 4298, Stop: 4693, Start Num: 5

Candidate Starts for Bongo\_13:

(Start: 5 @4298 has 13 MA's), (13, 4475), (23, 4664), (24, 4667),

Gene: Bricole\_13 Start: 4297, Stop: 4692, Start Num: 5

Candidate Starts for Bricole\_13:

(Start: 5 @4297 has 13 MA's), (13, 4474), (23, 4663), (24, 4666),

Gene: Cosmo\_25 Start: 7720, Stop: 8109, Start Num: 7

Candidate Starts for Cosmo\_25:

(Start: 7 @7720 has 5 MA's), (Start: 10 @7771 has 1 MA's), (11, 7843), (12, 7852), (13, 7888), (14, 7894), (15, 7927), (17, 7939), (18, 7942), (19, 7957), (20, 7996), (21, 8008), (25, 8074), (26, 8092),

Gene: Diminimus\_14 Start: 4297, Stop: 4692, Start Num: 5

Candidate Starts for Diminimus\_14:

(Start: 5 @4297 has 13 MA's), (13, 4474), (23, 4663), (24, 4666),

Gene: Dulcita\_14 Start: 4297, Stop: 4692, Start Num: 5

Candidate Starts for Dulcita\_14:

(Start: 5 @4297 has 13 MA's), (13, 4474), (23, 4663), (24, 4666),

Gene: EniyanLRS\_22 Start: 7412, Stop: 7801, Start Num: 7

Candidate Starts for EniyanLRS\_22:

(Start: 7 @7412 has 5 MA's), (Start: 10 @7463 has 1 MA's), (11, 7535), (12, 7544), (13, 7580), (14, 7586), (15, 7619), (17, 7631), (18, 7634), (19, 7649), (20, 7688), (21, 7700), (25, 7766), (26, 7784),

Gene: Estes\_18 Start: 5092, Stop: 5439, Start Num: 9

Candidate Starts for Estes\_18:

(Start: 5 @5044 has 13 MA's), (Start: 9 @5092 has 7 MA's), (13, 5221), (14, 5227), (15, 5266), (18, 5290), (23, 5410), (24, 5413),

Gene: GardenSalsa\_17 Start: 4926, Stop: 5273, Start Num: 9

Candidate Starts for GardenSalsa\_17:

(Start: 5 @4878 has 13 MA's), (Start: 9 @4926 has 7 MA's), (13, 5055), (14, 5061), (15, 5100), (18, 5124), (23, 5244), (24, 5247),

Gene: GenevaB15\_17 Start: 4947, Stop: 5294, Start Num: 9

Candidate Starts for GenevaB15\_17:

(Start: 5 @4899 has 13 MA's), (Start: 9 @4947 has 7 MA's), (13, 5076), (14, 5082), (15, 5121), (18, 5145), (23, 5265), (24, 5268),

Gene: Glaske16\_14 Start: 4297, Stop: 4692, Start Num: 5

Candidate Starts for Glaske16\_14:

(Start: 5 @4297 has 13 MA's), (13, 4474), (23, 4663), (24, 4666),

Gene: IPHane7\_13 Start: 4298, Stop: 4693, Start Num: 5

Candidate Starts for IPHane7\_13:

(Start: 5 @4298 has 13 MA's), (13, 4475), (23, 4664), (24, 4667),

Gene: Kumao\_12 Start: 3923, Stop: 4243, Start Num: 10

Candidate Starts for Kumao\_12:

(6, 3869), (8, 3890), (Start: 10 @3923 has 1 MA's), (21, 4163), (22, 4205), (24, 4220),

Gene: LilhomieP\_12 Start: 4298, Stop: 4693, Start Num: 5

Candidate Starts for LilhomieP\_12:

(Start: 5 @4298 has 13 MA's), (13, 4475), (23, 4664), (24, 4667),

Gene: MaryV\_25 Start: 7684, Stop: 8073, Start Num: 7

Candidate Starts for MaryV\_25:

(Start: 7 @7684 has 5 MA's), (Start: 10 @7735 has 1 MA's), (11, 7807), (12, 7816), (13, 7852), (14, 7858), (15, 7891), (17, 7903), (18, 7906), (19, 7921), (20, 7960), (21, 7972), (25, 8038), (26, 8056),

Gene: MrMagoo\_17 Start: 4926, Stop: 5273, Start Num: 9

Candidate Starts for MrMagoo\_17:

(Start: 5 @4878 has 13 MA's), (Start: 9 @4926 has 7 MA's), (13, 5055), (14, 5061), (15, 5100), (18, 5124), (23, 5244), (24, 5247),

Gene: Nanosmite\_17 Start: 5093, Stop: 5440, Start Num: 9

Candidate Starts for Nanosmite\_17:

(1, 4883), (Start: 5 @5045 has 13 MA's), (Start: 9 @5093 has 7 MA's), (16, 5273), (23, 5411), (24, 5414),

Gene: PegLeg\_13 Start: 4297, Stop: 4692, Start Num: 5

Candidate Starts for PegLeg\_13:

(Start: 5 @4297 has 13 MA's), (13, 4474), (23, 4663), (24, 4666),

Gene: Reindeer\_11 Start: 4169, Stop: 4564, Start Num: 5

Candidate Starts for Reindeer\_11:

(2, 4010), (4, 4151), (Start: 5 @4169 has 13 MA's), (23, 4535), (24, 4538),

Gene: Rey\_17 Start: 5157, Stop: 5504, Start Num: 9

Candidate Starts for Rey\_17:

(1, 4950), (3, 4965), (Start: 5 @5109 has 13 MA's), (Start: 9 @5157 has 7 MA's), (13, 5286), (15, 5331), (18, 5355), (23, 5475), (24, 5478),

Gene: Skinny\_14 Start: 4297, Stop: 4692, Start Num: 5

Candidate Starts for Skinny\_14:

(Start: 5 @4297 has 13 MA's), (13, 4474), (23, 4663), (24, 4666),

Gene: SlimJimmy\_12 Start: 4297, Stop: 4692, Start Num: 5

Candidate Starts for SlimJimmy\_12:

(Start: 5 @4297 has 13 MA's), (13, 4474), (23, 4663), (24, 4666),

Gene: TyDawg\_13 Start: 4298, Stop: 4693, Start Num: 5

Candidate Starts for TyDawg\_13:

(Start: 5 @4298 has 13 MA's), (13, 4475), (23, 4664), (24, 4667),

Gene: Wildcat\_25 Start: 7694, Stop: 8083, Start Num: 7

Candidate Starts for Wildcat\_25:

(Start: 7 @7694 has 5 MA's), (Start: 10 @7745 has 1 MA's), (11, 7817), (12, 7826), (13, 7862), (14, 7868), (15, 7901), (17, 7913), (18, 7916), (19, 7931), (20, 7970), (21, 7982), (25, 8048), (26, 8066),

