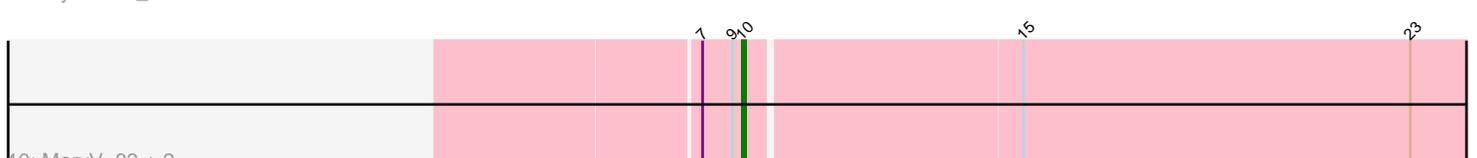
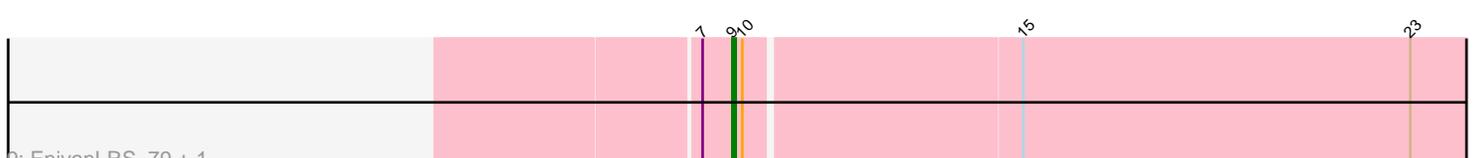
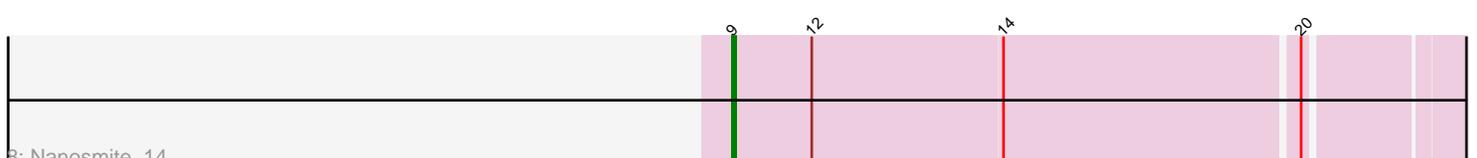
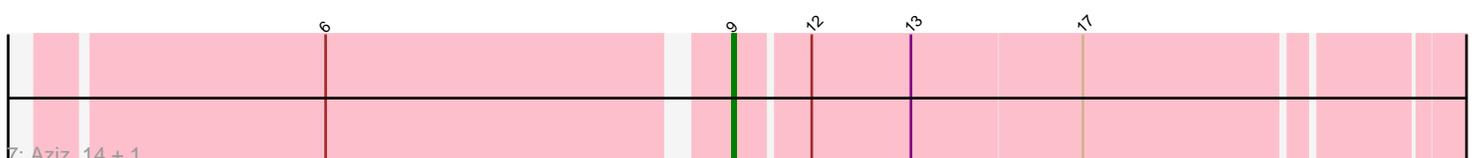
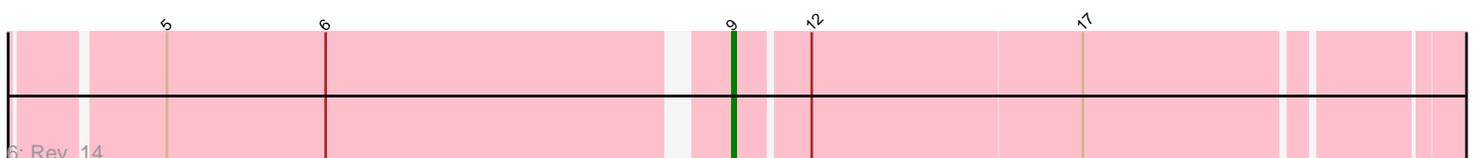
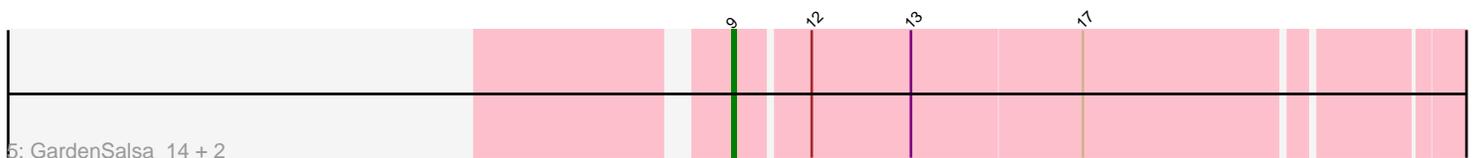
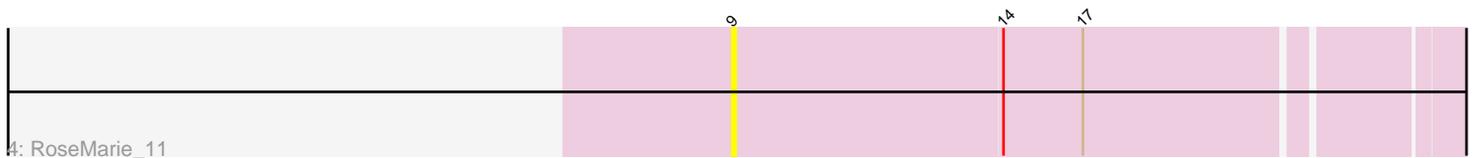
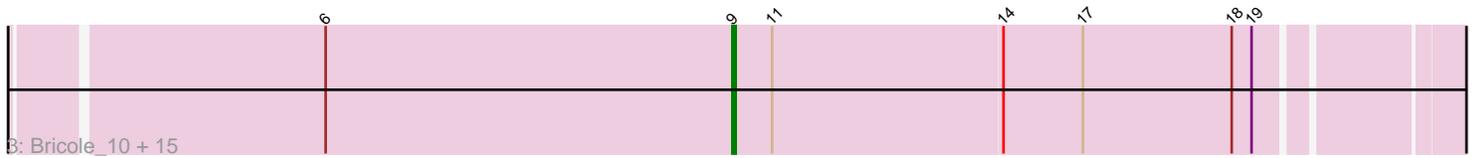
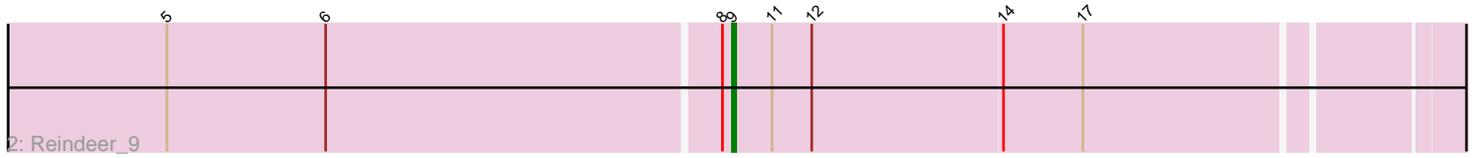
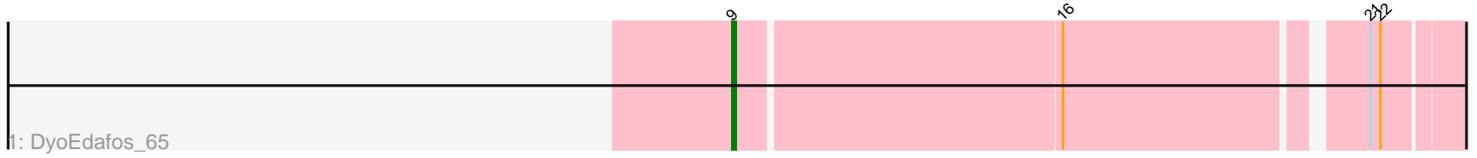


# Zoomed Pham 282367



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 282367 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282367 has 31 members, 3 are drafts.

Phages represented in each track:

- Track 1 : DyoEdafos\_65
- Track 2 : Reindeer\_9
- Track 3 : Bricole\_10, TpudiCK\_11, Glaske16\_11, Dulcita\_11, IPhane7\_10, Bongo\_10, Skinny\_11, FreakyGoo\_11, Diminimus\_11, SlimJimmy\_10, KleverKiS\_10, LilhomieP\_10, PegLeg\_10, TyDawg\_10, Izel\_11, Auspice\_10
- Track 4 : RoseMarie\_11
- Track 5 : GardenSalsa\_14, MrMagoo\_14, Estes\_15
- Track 6 : Rey\_14
- Track 7 : Aziz\_14, GenevaB15\_14
- Track 8 : Nanosmite\_14
- Track 9 : EniyanLRS\_79, Azrael100\_82
- Track 10 : MaryV\_83, Cosmo\_83, Wildcat\_83

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

The start number called the most often in the published annotations is 9, it was called in 25 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice\_10, Aziz\_14, Azrael100\_82, Bongo\_10, Bricole\_10, Diminimus\_11, Dulcita\_11, DyoEdafos\_65, EniyanLRS\_79, Estes\_15, FreakyGoo\_11, GardenSalsa\_14, GenevaB15\_14, Glaske16\_11, IPhane7\_10, Izel\_11, KleverKiS\_10, LilhomieP\_10, MrMagoo\_14, Nanosmite\_14, PegLeg\_10, Reindeer\_9, Rey\_14, RoseMarie\_11, Skinny\_11, SlimJimmy\_10, TpudiCK\_11, TyDawg\_10,

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

- Cosmo\_83, MaryV\_83, Wildcat\_83,

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

- 

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

Start 9:

- Found in 31 of 31 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 25 of 28
- Called 90.3% of time when present
- Phage (with cluster) where this start called: Auspice\_10 (M1), Aziz\_14 (M2), Azrael100\_82 (V), Bongo\_10 (M1), Bricole\_10 (M1), Diminimus\_11 (M1), Dulcita\_11 (M1), DyoEdafos\_65 (L4), EniyanLRS\_79 (V), Estes\_15 (M2), FreakyGoo\_11 (M1), GardenSalsa\_14 (M2), GenevaB15\_14 (M2), Glaske16\_11 (M1), IPhane7\_10 (M1), Izel\_11 (M1), KleverKiS\_10 (M1), LilhomieP\_10 (M1), MrMagoo\_14 (M2), Nanosmite\_14 (M3), PegLeg\_10 (M1), Reindeer\_9 (M1), Rey\_14 (M2), RoseMarie\_11 (M1), Skinny\_11 (M1), SlimJimmy\_10 (M1), TpudiCK\_11 (M1), TyDawg\_10 (M1),

Start 10:

- Found in 5 of 31 ( 16.1% ) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Cosmo\_83 (V), MaryV\_83 (V), Wildcat\_83 (V),

### **Summary by clusters:**

There are 5 clusters represented in this pham: L4, M2, M1, M3, V,

Info for manual annotations of cluster L4:

- Start number 9 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:

- Start number 9 was manually annotated 15 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 9 was manually annotated 2 times for cluster V.
- Start number 10 was manually annotated 3 times for cluster V.

### **Gene Information:**

Gene: Auspice\_10 Start: 3645, Stop: 3415, Start Num: 9

Candidate Starts for Auspice\_10:

(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 9 @3645 has 25 MA's), (11, 3633), (14, 3564), (17, 3540), (18, 3495), (19, 3489),

Gene: Aziz\_14 Start: 4266, Stop: 4039, Start Num: 9

Candidate Starts for Aziz\_14:

(6, 4380), (Start: 9 @4266 has 25 MA's), (12, 4245), (13, 4215), (17, 4164),

Gene: Azrael100\_82 Start: 51913, Stop: 52149, Start Num: 9

Candidate Starts for Azrael100\_82:

(7, 51904), (Start: 9 @51913 has 25 MA's), (Start: 10 @51916 has 3 MA's), (15, 51997), (23, 52114),

Gene: Bongo\_10 Start: 3645, Stop: 3415, Start Num: 9

Candidate Starts for Bongo\_10:

(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 9 @3645 has 25 MA's), (11, 3633), (14, 3564), (17, 3540), (18, 3495), (19, 3489),

Gene: Bricole\_10 Start: 3644, Stop: 3414, Start Num: 9

Candidate Starts for Bricole\_10:

(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 9 @3644 has 25 MA's), (11, 3632), (14, 3563), (17, 3539), (18, 3494), (19, 3488),

Gene: Cosmo\_83 Start: 51917, Stop: 52150, Start Num: 10

Candidate Starts for Cosmo\_83:

(7, 51905), (Start: 9 @51914 has 25 MA's), (Start: 10 @51917 has 3 MA's), (15, 51998), (23, 52115),

Gene: Diminimus\_11 Start: 3644, Stop: 3414, Start Num: 9

Candidate Starts for Diminimus\_11:

(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 9 @3644 has 25 MA's), (11, 3632), (14, 3563), (17, 3539), (18, 3494), (19, 3488),

Gene: Dulcita\_11 Start: 3644, Stop: 3414, Start Num: 9

Candidate Starts for Dulcita\_11:

(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 9 @3644 has 25 MA's), (11, 3632), (14, 3563), (17, 3539), (18, 3494), (19, 3488),

Gene: DyoEdafos\_65 Start: 44596, Stop: 44826, Start Num: 9

Candidate Starts for DyoEdafos\_65:

(Start: 9 @44596 has 25 MA's), (16, 44692), (21, 44776), (22, 44779),

Gene: EniyanLRS\_79 Start: 51653, Stop: 51889, Start Num: 9

Candidate Starts for EniyanLRS\_79:

(7, 51644), (Start: 9 @51653 has 25 MA's), (Start: 10 @51656 has 3 MA's), (15, 51737), (23, 51854),

Gene: Estes\_15 Start: 4411, Stop: 4184, Start Num: 9

Candidate Starts for Estes\_15:

(Start: 9 @4411 has 25 MA's), (12, 4390), (13, 4360), (17, 4309),

Gene: FreakyGoo\_11 Start: 3645, Stop: 3415, Start Num: 9

Candidate Starts for FreakyGoo\_11:

(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 9 @3645 has 25 MA's), (11, 3633), (14, 3564), (17, 3540), (18, 3495), (19, 3489),

Gene: GardenSalsa\_14 Start: 4245, Stop: 4018, Start Num: 9

Candidate Starts for GardenSalsa\_14:

(Start: 9 @4245 has 25 MA's), (12, 4224), (13, 4194), (17, 4143),

Gene: GenevaB15\_14 Start: 4266, Stop: 4039, Start Num: 9

Candidate Starts for GenevaB15\_14:

(6, 4380), (Start: 9 @4266 has 25 MA's), (12, 4245), (13, 4215), (17, 4164),

Gene: Glaske16\_11 Start: 3644, Stop: 3414, Start Num: 9

Candidate Starts for Glaske16\_11:

(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 9 @3644 has 25 MA's), (11, 3632), (14, 3563), (17, 3539), (18, 3494), (19, 3488),

Gene: IPhane7\_10 Start: 3645, Stop: 3415, Start Num: 9

Candidate Starts for IPhane7\_10:

(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 9 @3645 has 25 MA's), (11, 3633), (14, 3564), (17, 3540), (18, 3495), (19, 3489),

Gene: Izel\_11 Start: 3644, Stop: 3414, Start Num: 9

Candidate Starts for Izel\_11:

(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 9 @3644 has 25 MA's), (11, 3632), (14, 3563), (17, 3539), (18, 3494), (19, 3488),

Gene: KleverKiS\_10 Start: 3641, Stop: 3411, Start Num: 9

Candidate Starts for KleverKiS\_10:

(2, 3887), (3, 3872), (4, 3863), (6, 3764), (Start: 9 @3641 has 25 MA's), (11, 3629), (14, 3560), (17, 3536), (18, 3491), (19, 3485),

Gene: LilhomieP\_10 Start: 3645, Stop: 3415, Start Num: 9

Candidate Starts for LilhomieP\_10:

(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 9 @3645 has 25 MA's), (11, 3633), (14, 3564), (17, 3540), (18, 3495), (19, 3489),

Gene: MaryV\_83 Start: 51738, Stop: 51971, Start Num: 10

Candidate Starts for MaryV\_83:

(7, 51726), (Start: 9 @51735 has 25 MA's), (Start: 10 @51738 has 3 MA's), (15, 51819), (23, 51936),

Gene: MrMagoo\_14 Start: 4245, Stop: 4018, Start Num: 9

Candidate Starts for MrMagoo\_14:

(Start: 9 @4245 has 25 MA's), (12, 4224), (13, 4194), (17, 4143),

Gene: Nanosmite\_14 Start: 4397, Stop: 4167, Start Num: 9

Candidate Starts for Nanosmite\_14:

(Start: 9 @4397 has 25 MA's), (12, 4373), (14, 4316), (20, 4229),

Gene: PegLeg\_10 Start: 3644, Stop: 3414, Start Num: 9

Candidate Starts for PegLeg\_10:

(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 9 @3644 has 25 MA's), (11, 3632), (14, 3563), (17, 3539), (18, 3494), (19, 3488),

Gene: Reindeer\_9 Start: 3514, Stop: 3284, Start Num: 9

Candidate Starts for Reindeer\_9:

(1, 3850), (3, 3748), (4, 3739), (5, 3682), (6, 3634), (8, 3517), (Start: 9 @3514 has 25 MA's), (11, 3502), (12, 3490), (14, 3433), (17, 3409),

Gene: Rey\_14 Start: 4475, Stop: 4248, Start Num: 9

Candidate Starts for Rey\_14:

(3, 4697), (4, 4688), (5, 4637), (6, 4589), (Start: 9 @4475 has 25 MA's), (12, 4454), (17, 4373),

Gene: RoseMarie\_11 Start: 3892, Stop: 3662, Start Num: 9

Candidate Starts for RoseMarie\_11:

(Start: 9 @3892 has 25 MA's), (14, 3811), (17, 3787), (24, 3670),

Gene: Skinny\_11 Start: 3644, Stop: 3414, Start Num: 9

Candidate Starts for Skinny\_11:

(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 9 @3644 has 25 MA's), (11, 3632), (14, 3563), (17, 3539), (18, 3494), (19, 3488),

Gene: SlimJimmy\_10 Start: 3644, Stop: 3414, Start Num: 9

Candidate Starts for SlimJimmy\_10:

(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 9 @3644 has 25 MA's), (11, 3632), (14, 3563), (17, 3539), (18, 3494), (19, 3488),

Gene: TpudiCK\_11 Start: 3644, Stop: 3414, Start Num: 9

Candidate Starts for TpudiCK\_11:

(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 9 @3644 has 25 MA's), (11, 3632), (14, 3563), (17, 3539), (18, 3494), (19, 3488),

Gene: TyDawg\_10 Start: 3645, Stop: 3415, Start Num: 9

Candidate Starts for TyDawg\_10:

(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 9 @3645 has 25 MA's), (11, 3633), (14, 3564), (17, 3540), (18, 3495), (19, 3489),

Gene: Wildcat\_83 Start: 51748, Stop: 51981, Start Num: 10

Candidate Starts for Wildcat\_83:

(7, 51736), (Start: 9 @51745 has 25 MA's), (Start: 10 @51748 has 3 MA's), (15, 51829), (23, 51946),