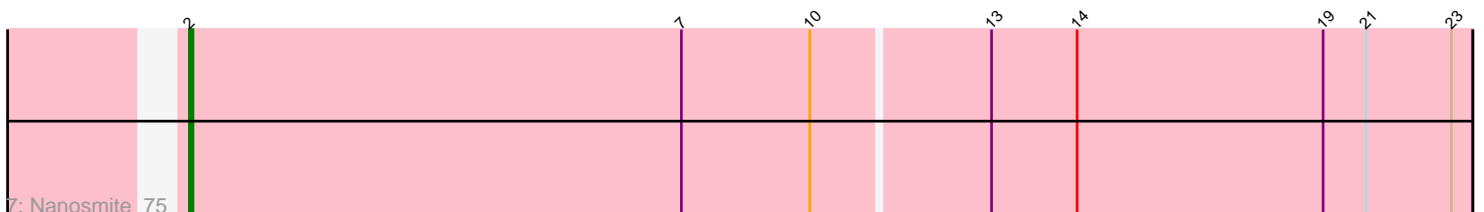
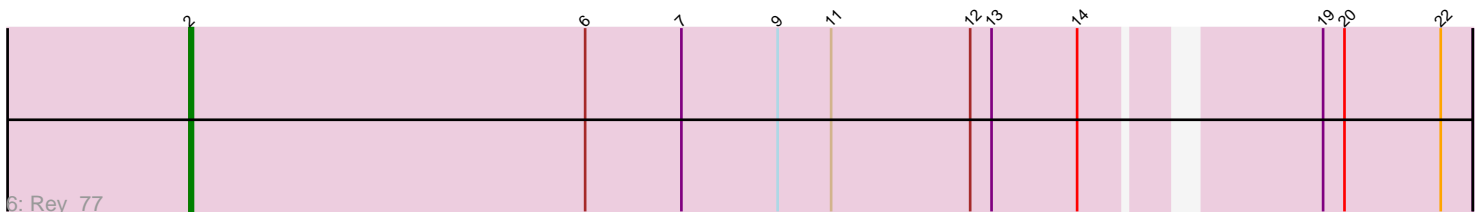
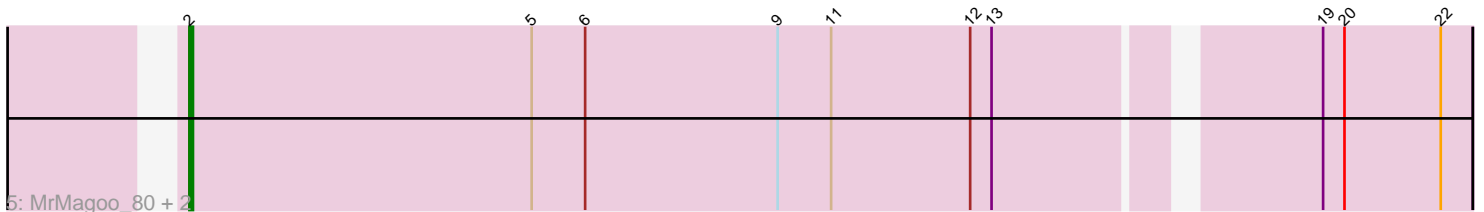
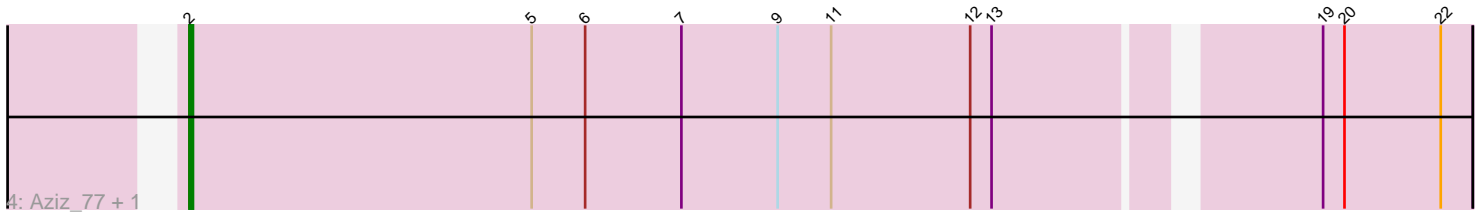
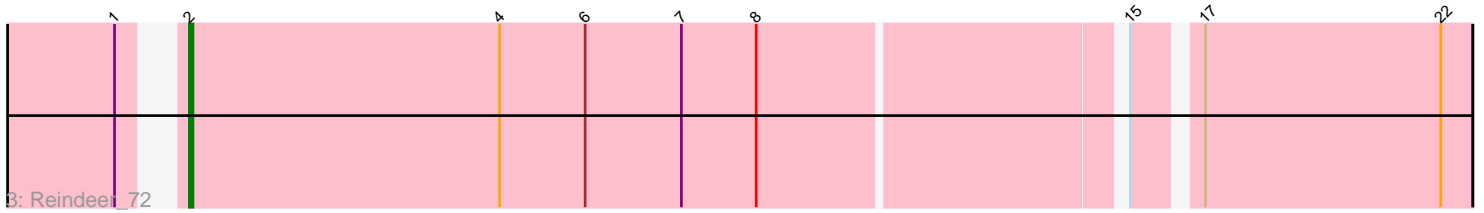
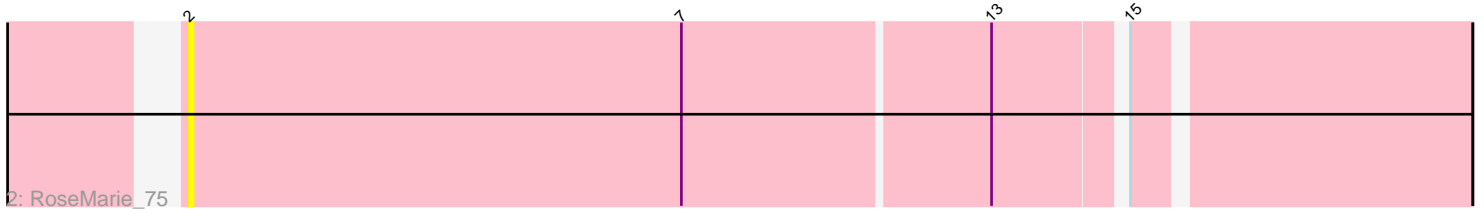
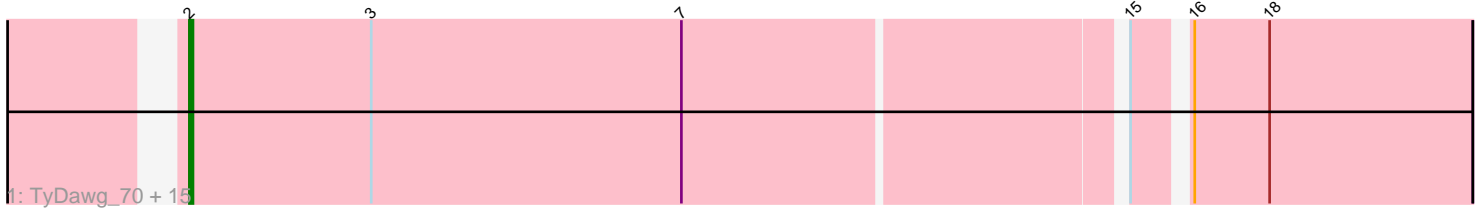


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 296884 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296884 has 25 members, 3 are drafts.

Phages represented in each track:

- Track 1 : TyDawg\_70, Glaske16\_72, TpudiCK\_72, PegLeg\_69, Skinny\_73, LilhomieP\_70, Bongo\_70, FreakyGoo\_72, IPhane7\_70, Diminimus\_71, SlimJimmy\_70, Bricole\_69, Dulcita\_71, KleverKiS\_69, Auspice\_70, Izel\_71
- Track 2 : RoseMarie\_75
- Track 3 : Reindeer\_72
- Track 4 : Aziz\_77, GenevaB15\_78
- Track 5 : MrMagoo\_80, Estes\_79, GardenSalsa\_79
- Track 6 : Rey\_77
- Track 7 : Nanosmite\_75

### ***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 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice\_70, Aziz\_77, Bongo\_70, Bricole\_69, Diminimus\_71, Dulcita\_71, Estes\_79, FreakyGoo\_72, GardenSalsa\_79, GenevaB15\_78, Glaske16\_72, IPhane7\_70, Izel\_71, KleverKiS\_69, LilhomieP\_70, MrMagoo\_80, Nanosmite\_75, PegLeg\_69, Reindeer\_72, Rey\_77, RoseMarie\_75, Skinny\_73, SlimJimmy\_70, TpudiCK\_72, TyDawg\_70,

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

- 

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

- 

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

Start 2:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Auspice\_70 (M1), Aziz\_77 (M2), Bongo\_70 (M1), Bricole\_69 (M1), Diminimus\_71 (M1), Dulcita\_71 (M1), Estes\_79 (M2), FreakyGoo\_72 (M1), GardenSalsa\_79 (M2), GenevaB15\_78 (M2), Glaske16\_72 (M1), IPhane7\_70 (M1), Izel\_71 (M1), KleverKiS\_69 (M1), LilhomieP\_70 (M1), MrMagoo\_80 (M2), Nanosmite\_75 (M3), PegLeg\_69 (M1), Reindeer\_72 (M1), Rey\_77 (M2), RoseMarie\_75 (M1), Skinny\_73 (M1), SlimJimmy\_70 (M1), TpudiCK\_72 (M1), TyDawg\_70 (M1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: M1, M3, M2,

Info for manual annotations of cluster M1:

•Start number 2 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:

•Start number 2 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

•Start number 2 was manually annotated 1 time for cluster M3.

### **Gene Information:**

Gene: Auspice\_70 Start: 46137, Stop: 46481, Start Num: 2

Candidate Starts for Auspice\_70:

(Start: 2 @46137 has 22 MA's), (3, 46188), (7, 46275), (15, 46392), (16, 46404), (18, 46425),

Gene: Aziz\_77 Start: 48177, Stop: 48524, Start Num: 2

Candidate Starts for Aziz\_77:

(Start: 2 @48177 has 22 MA's), (5, 48273), (6, 48288), (7, 48315), (9, 48342), (11, 48357), (12, 48396), (13, 48402), (19, 48483), (20, 48489), (22, 48516),

Gene: Bongo\_70 Start: 46141, Stop: 46485, Start Num: 2

Candidate Starts for Bongo\_70:

(Start: 2 @46141 has 22 MA's), (3, 46192), (7, 46279), (15, 46396), (16, 46408), (18, 46429),

Gene: Bricole\_69 Start: 45863, Stop: 46207, Start Num: 2

Candidate Starts for Bricole\_69:

(Start: 2 @45863 has 22 MA's), (3, 45914), (7, 46001), (15, 46118), (16, 46130), (18, 46151),

Gene: Diminimus\_71 Start: 46136, Stop: 46480, Start Num: 2

Candidate Starts for Diminimus\_71:

(Start: 2 @46136 has 22 MA's), (3, 46187), (7, 46274), (15, 46391), (16, 46403), (18, 46424),

Gene: Dulcita\_71 Start: 46137, Stop: 46481, Start Num: 2

Candidate Starts for Dulcita\_71:

(Start: 2 @46137 has 22 MA's), (3, 46188), (7, 46275), (15, 46392), (16, 46404), (18, 46425),

Gene: Estes\_79 Start: 48524, Stop: 48871, Start Num: 2

Candidate Starts for Estes\_79:

(Start: 2 @48524 has 22 MA's), (5, 48620), (6, 48635), (9, 48689), (11, 48704), (12, 48743), (13, 48749), (19, 48830), (20, 48836), (22, 48863),

Gene: FreakyGoo\_72 Start: 46616, Stop: 46960, Start Num: 2

Candidate Starts for FreakyGoo\_72:

(Start: 2 @46616 has 22 MA's), (3, 46667), (7, 46754), (15, 46871), (16, 46883), (18, 46904),

Gene: GardenSalsa\_79 Start: 48728, Stop: 49075, Start Num: 2

Candidate Starts for GardenSalsa\_79:

(Start: 2 @48728 has 22 MA's), (5, 48824), (6, 48839), (9, 48893), (11, 48908), (12, 48947), (13, 48953), (19, 49034), (20, 49040), (22, 49067),

Gene: GenevaB15\_78 Start: 48177, Stop: 48524, Start Num: 2

Candidate Starts for GenevaB15\_78:

(Start: 2 @48177 has 22 MA's), (5, 48273), (6, 48288), (7, 48315), (9, 48342), (11, 48357), (12, 48396), (13, 48402), (19, 48483), (20, 48489), (22, 48516),

Gene: Glaske16\_72 Start: 46615, Stop: 46959, Start Num: 2

Candidate Starts for Glaske16\_72:

(Start: 2 @46615 has 22 MA's), (3, 46666), (7, 46753), (15, 46870), (16, 46882), (18, 46903),

Gene: IPhone7\_70 Start: 46141, Stop: 46485, Start Num: 2

Candidate Starts for IPhone7\_70:

(Start: 2 @46141 has 22 MA's), (3, 46192), (7, 46279), (15, 46396), (16, 46408), (18, 46429),

Gene: Izel\_71 Start: 46136, Stop: 46480, Start Num: 2

Candidate Starts for Izel\_71:

(Start: 2 @46136 has 22 MA's), (3, 46187), (7, 46274), (15, 46391), (16, 46403), (18, 46424),

Gene: KleverKiS\_69 Start: 45857, Stop: 46201, Start Num: 2

Candidate Starts for KleverKiS\_69:

(Start: 2 @45857 has 22 MA's), (3, 45908), (7, 45995), (15, 46112), (16, 46124), (18, 46145),

Gene: LilhomieP\_70 Start: 46620, Stop: 46964, Start Num: 2

Candidate Starts for LilhomieP\_70:

(Start: 2 @46620 has 22 MA's), (3, 46671), (7, 46758), (15, 46875), (16, 46887), (18, 46908),

Gene: MrMagoo\_80 Start: 48728, Stop: 49075, Start Num: 2

Candidate Starts for MrMagoo\_80:

(Start: 2 @48728 has 22 MA's), (5, 48824), (6, 48839), (9, 48893), (11, 48908), (12, 48947), (13, 48953), (19, 49034), (20, 49040), (22, 49067),

Gene: Nanosmite\_75 Start: 47763, Stop: 48119, Start Num: 2

Candidate Starts for Nanosmite\_75:

(Start: 2 @47763 has 22 MA's), (7, 47901), (10, 47937), (13, 47985), (14, 48009), (19, 48078), (21, 48090), (23, 48114),

Gene: PegLeg\_69 Start: 45880, Stop: 46224, Start Num: 2

Candidate Starts for PegLeg\_69:

(Start: 2 @45880 has 22 MA's), (3, 45931), (7, 46018), (15, 46135), (16, 46147), (18, 46168),

Gene: Reindeer\_72 Start: 47274, Stop: 47618, Start Num: 2

Candidate Starts for Reindeer\_72:

(1, 47265), (Start: 2 @47274 has 22 MA's), (4, 47361), (6, 47385), (7, 47412), (8, 47433), (15, 47529), (17, 47544), (22, 47610),

Gene: Rey\_77 Start: 48401, Stop: 48748, Start Num: 2

Candidate Starts for Rey\_77:

(Start: 2 @48401 has 22 MA's), (6, 48512), (7, 48539), (9, 48566), (11, 48581), (12, 48620), (13, 48626), (14, 48650), (19, 48707), (20, 48713), (22, 48740),

Gene: RoseMarie\_75 Start: 49498, Stop: 49842, Start Num: 2

Candidate Starts for RoseMarie\_75:

(Start: 2 @49498 has 22 MA's), (7, 49636), (13, 49720), (15, 49753),

Gene: Skinny\_73 Start: 47049, Stop: 47393, Start Num: 2

Candidate Starts for Skinny\_73:

(Start: 2 @47049 has 22 MA's), (3, 47100), (7, 47187), (15, 47304), (16, 47316), (18, 47337),

Gene: SlimJimmy\_70 Start: 46604, Stop: 46948, Start Num: 2

Candidate Starts for SlimJimmy\_70:

(Start: 2 @46604 has 22 MA's), (3, 46655), (7, 46742), (15, 46859), (16, 46871), (18, 46892),

Gene: TpudiCK\_72 Start: 46140, Stop: 46484, Start Num: 2

Candidate Starts for TpudiCK\_72:

(Start: 2 @46140 has 22 MA's), (3, 46191), (7, 46278), (15, 46395), (16, 46407), (18, 46428),

Gene: TyDawg\_70 Start: 46141, Stop: 46485, Start Num: 2

Candidate Starts for TyDawg\_70:

(Start: 2 @46141 has 22 MA's), (3, 46192), (7, 46279), (15, 46396), (16, 46408), (18, 46429),