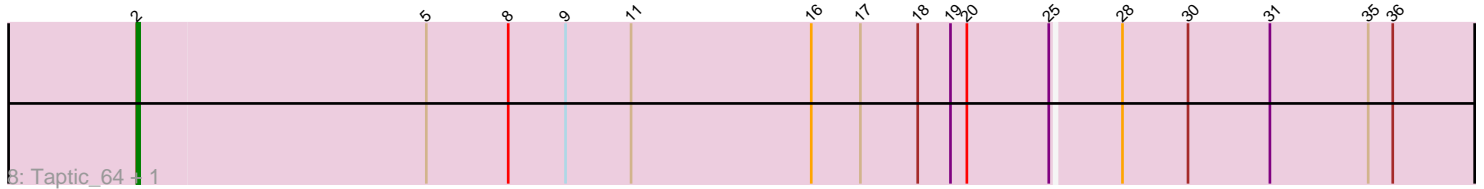
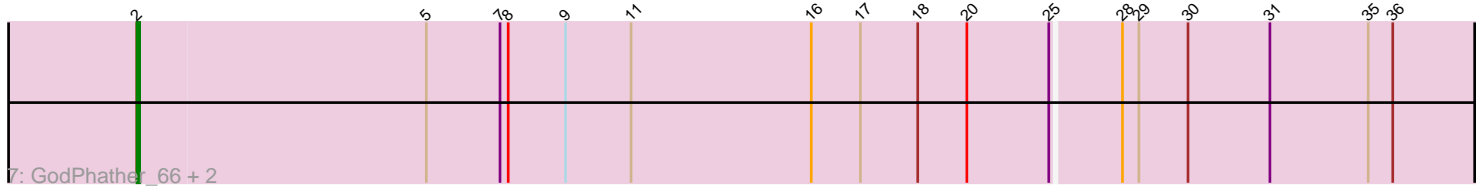
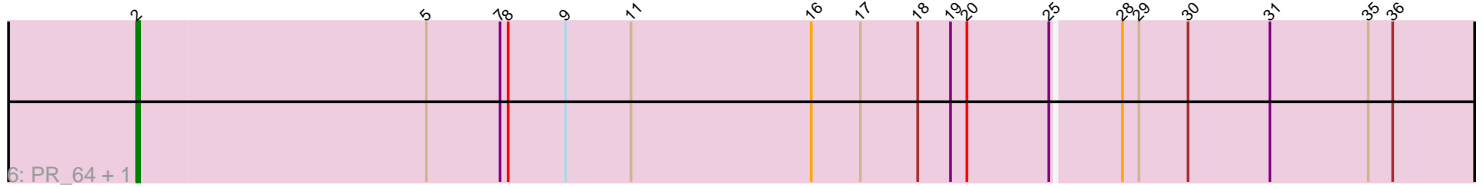
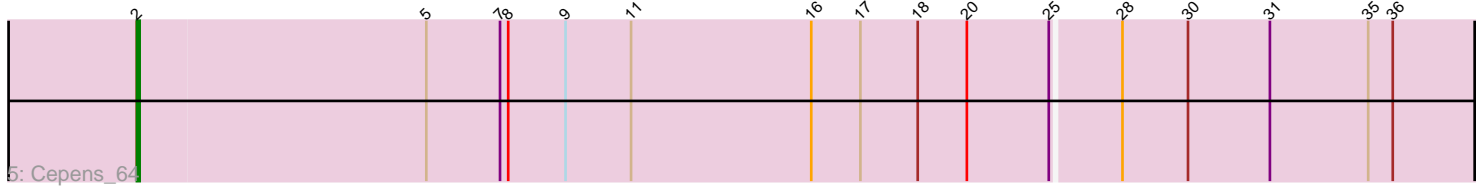
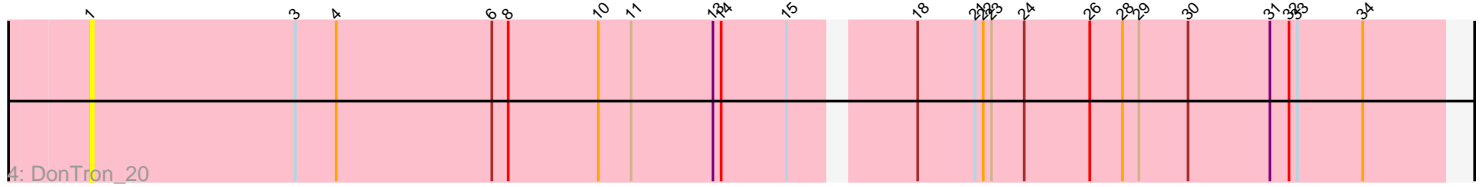
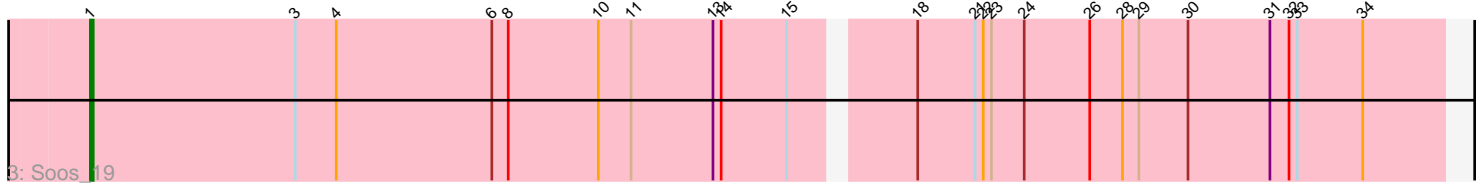
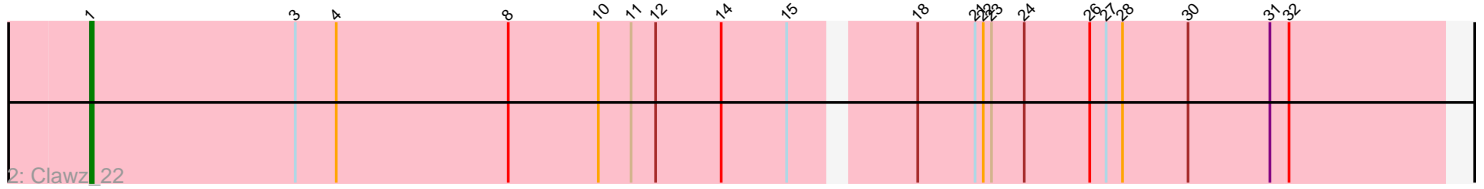
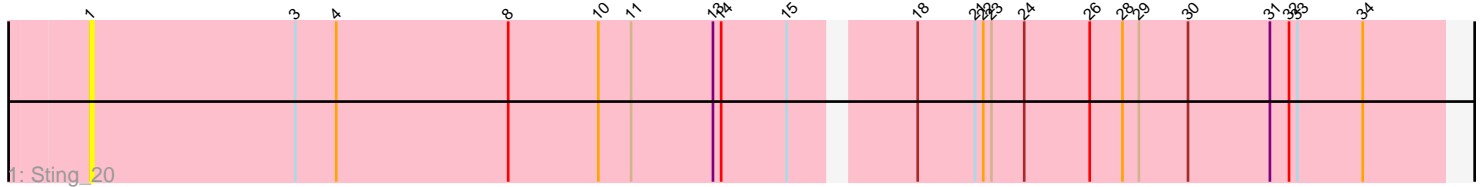


# Pham 5695



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 5695 Report

This analysis was run 04/28/24 on database version 559.

Pham number 5695 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Sting\_20
- Track 2 : Clawz\_22
- Track 3 : Soos\_19
- Track 4 : DonTron\_20
- Track 5 : Cepens\_64
- Track 6 : PR\_64, D12\_63
- Track 7 : GodPhather\_66, Jeon\_64, Argie\_67
- Track 8 : Taptic\_64, Megabear\_64

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

Genes that call this "Most Annotated" start:

- Argie\_67, Cepens\_64, D12\_63, GodPhather\_66, Jeon\_64, Megabear\_64, PR\_64, Taptic\_64,

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

- 

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

- Clawz\_22, DonTron\_20, Soos\_19, Sting\_20,

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

Start 1:

- Found in 4 of 12 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clawz\_22 (CP), DonTron\_20 (CP), Soos\_19 (CP), Sting\_20 (CP),

Start 2:

- Found in 8 of 12 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 8 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie\_67 (W), Cepens\_64 (W), D12\_63 (W), GodPhather\_66 (W), Jeon\_64 (W), Megabear\_64 (W), PR\_64 (W), Taptic\_64 (W),

### **Summary by clusters:**

There are 2 clusters represented in this pham: CP, W,

Info for manual annotations of cluster CP:

- Start number 1 was manually annotated 2 times for cluster CP.

Info for manual annotations of cluster W:

- Start number 2 was manually annotated 8 times for cluster W.

### **Gene Information:**

Gene: Argie\_67 Start: 49730, Stop: 50272, Start Num: 2

Candidate Starts for Argie\_67:

(Start: 2 @49730 has 8 MA's), (5, 49835), (7, 49862), (8, 49865), (9, 49886), (11, 49910), (16, 49976), (17, 49994), (18, 50015), (20, 50033), (25, 50063), (28, 50087), (29, 50093), (30, 50111), (31, 50141), (35, 50177), (36, 50186),

Gene: Cepens\_64 Start: 48136, Stop: 48678, Start Num: 2

Candidate Starts for Cepens\_64:

(Start: 2 @48136 has 8 MA's), (5, 48241), (7, 48268), (8, 48271), (9, 48292), (11, 48316), (16, 48382), (17, 48400), (18, 48421), (20, 48439), (25, 48469), (28, 48493), (30, 48517), (31, 48547), (35, 48583), (36, 48592),

Gene: Clawz\_22 Start: 10602, Stop: 11087, Start Num: 1

Candidate Starts for Clawz\_22:

(Start: 1 @10602 has 2 MA's), (3, 10677), (4, 10692), (8, 10755), (10, 10788), (11, 10800), (12, 10809), (14, 10833), (15, 10857), (18, 10896), (21, 10917), (22, 10920), (23, 10923), (24, 10935), (26, 10959), (27, 10965), (28, 10971), (30, 10995), (31, 11025), (32, 11031),

Gene: D12\_63 Start: 48684, Stop: 49226, Start Num: 2

Candidate Starts for D12\_63:

(Start: 2 @48684 has 8 MA's), (5, 48789), (7, 48816), (8, 48819), (9, 48840), (11, 48864), (16, 48930), (17, 48948), (18, 48969), (19, 48981), (20, 48987), (25, 49017), (28, 49041), (29, 49047), (30, 49065), (31, 49095), (35, 49131), (36, 49140),

Gene: DonTron\_20 Start: 10098, Stop: 10583, Start Num: 1

Candidate Starts for DonTron\_20:

(Start: 1 @10098 has 2 MA's), (3, 10173), (4, 10188), (6, 10245), (8, 10251), (10, 10284), (11, 10296), (13, 10326), (14, 10329), (15, 10353), (18, 10392), (21, 10413), (22, 10416), (23, 10419), (24, 10431), (26, 10455), (28, 10467), (29, 10473), (30, 10491), (31, 10521), (32, 10527), (33, 10530), (34, 10554),

Gene: GodPhather\_66 Start: 49458, Stop: 50000, Start Num: 2

Candidate Starts for GodPhather\_66:

(Start: 2 @49458 has 8 MA's), (5, 49563), (7, 49590), (8, 49593), (9, 49614), (11, 49638), (16, 49704), (17, 49722), (18, 49743), (20, 49761), (25, 49791), (28, 49815), (29, 49821), (30, 49839), (31, 49869), (35, 49905), (36, 49914),

Gene: Jeon\_64 Start: 49222, Stop: 49764, Start Num: 2

Candidate Starts for Jeon\_64:

(Start: 2 @49222 has 8 MA's), (5, 49327), (7, 49354), (8, 49357), (9, 49378), (11, 49402), (16, 49468), (17, 49486), (18, 49507), (20, 49525), (25, 49555), (28, 49579), (29, 49585), (30, 49603), (31, 49633), (35, 49669), (36, 49678),

Gene: Megabear\_64 Start: 48057, Stop: 48599, Start Num: 2

Candidate Starts for Megabear\_64:

(Start: 2 @48057 has 8 MA's), (5, 48162), (8, 48192), (9, 48213), (11, 48237), (16, 48303), (17, 48321), (18, 48342), (19, 48354), (20, 48360), (25, 48390), (28, 48414), (30, 48438), (31, 48468), (35, 48504), (36, 48513),

Gene: PR\_64 Start: 48661, Stop: 49203, Start Num: 2

Candidate Starts for PR\_64:

(Start: 2 @48661 has 8 MA's), (5, 48766), (7, 48793), (8, 48796), (9, 48817), (11, 48841), (16, 48907), (17, 48925), (18, 48946), (19, 48958), (20, 48964), (25, 48994), (28, 49018), (29, 49024), (30, 49042), (31, 49072), (35, 49108), (36, 49117),

Gene: Soos\_19 Start: 9851, Stop: 10336, Start Num: 1

Candidate Starts for Soos\_19:

(Start: 1 @9851 has 2 MA's), (3, 9926), (4, 9941), (6, 9998), (8, 10004), (10, 10037), (11, 10049), (13, 10079), (14, 10082), (15, 10106), (18, 10145), (21, 10166), (22, 10169), (23, 10172), (24, 10184), (26, 10208), (28, 10220), (29, 10226), (30, 10244), (31, 10274), (32, 10280), (33, 10283), (34, 10307),

Gene: Sting\_20 Start: 10263, Stop: 10748, Start Num: 1

Candidate Starts for Sting\_20:

(Start: 1 @10263 has 2 MA's), (3, 10338), (4, 10353), (8, 10416), (10, 10449), (11, 10461), (13, 10491), (14, 10494), (15, 10518), (18, 10557), (21, 10578), (22, 10581), (23, 10584), (24, 10596), (26, 10620), (28, 10632), (29, 10638), (30, 10656), (31, 10686), (32, 10692), (33, 10695), (34, 10719),

Gene: Taptic\_64 Start: 48057, Stop: 48599, Start Num: 2

Candidate Starts for Taptic\_64:

(Start: 2 @48057 has 8 MA's), (5, 48162), (8, 48192), (9, 48213), (11, 48237), (16, 48303), (17, 48321), (18, 48342), (19, 48354), (20, 48360), (25, 48390), (28, 48414), (30, 48438), (31, 48468), (35, 48504), (36, 48513),