



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 171891 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171891 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Anansi\_60, SorJuana\_60, Jaek\_60, Boersma\_63, Yeezus\_60, Ichor\_60, Amavida\_58, Gorgeous\_60, Rings\_61, Thunderclap\_60, Amigo\_61, Heylee\_58
- Track 2 : Molivia\_62

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amavida\_58, Amigo\_61, Anansi\_60, Boersma\_63, Gorgeous\_60, Heylee\_58, Ichor\_60, Jaek\_60, Molivia\_62, Rings\_61, SorJuana\_60, Thunderclap\_60, Yeezus\_60,

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 1:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amavida\_58 (AQ), Amigo\_61 (AQ), Anansi\_60 (AQ), Boersma\_63 (AQ), Gorgeous\_60 (AQ), Heylee\_58 (AQ), Ichor\_60 (AQ), Jaek\_60 (AQ), Molivia\_62 (AQ), Rings\_61 (AQ), SorJuana\_60 (AQ), Thunderclap\_60 (AQ), Yeezus\_60 (AQ),

### **Summary by clusters:**

There is one cluster represented in this pham: AQ

Info for manual annotations of cluster AQ:

•Start number 1 was manually annotated 11 times for cluster AQ.

**Gene Information:**

Gene: Amavida\_58 Start: 40997, Stop: 40257, Start Num: 1

Candidate Starts for Amavida\_58:

(Start: 1 @40997 has 11 MA's), (2, 40967), (3, 40943), (4, 40931), (5, 40928), (6, 40922), (7, 40880), (8, 40871), (9, 40856), (10, 40847), (13, 40748), (14, 40733), (15, 40613), (16, 40595), (17, 40556), (18, 40547), (20, 40466), (21, 40439), (22, 40394), (23, 40391), (24, 40370), (25, 40325), (26, 40310),

Gene: Amigo\_61 Start: 41212, Stop: 40472, Start Num: 1

Candidate Starts for Amigo\_61:

(Start: 1 @41212 has 11 MA's), (2, 41182), (3, 41158), (4, 41146), (5, 41143), (6, 41137), (7, 41095), (8, 41086), (9, 41071), (10, 41062), (13, 40963), (14, 40948), (15, 40828), (16, 40810), (17, 40771), (18, 40762), (20, 40681), (21, 40654), (22, 40609), (23, 40606), (24, 40585), (25, 40540), (26, 40525),

Gene: Anansi\_60 Start: 40819, Stop: 40079, Start Num: 1

Candidate Starts for Anansi\_60:

(Start: 1 @40819 has 11 MA's), (2, 40789), (3, 40765), (4, 40753), (5, 40750), (6, 40744), (7, 40702), (8, 40693), (9, 40678), (10, 40669), (13, 40570), (14, 40555), (15, 40435), (16, 40417), (17, 40378), (18, 40369), (20, 40288), (21, 40261), (22, 40216), (23, 40213), (24, 40192), (25, 40147), (26, 40132),

Gene: Boersma\_63 Start: 41212, Stop: 40472, Start Num: 1

Candidate Starts for Boersma\_63:

(Start: 1 @41212 has 11 MA's), (2, 41182), (3, 41158), (4, 41146), (5, 41143), (6, 41137), (7, 41095), (8, 41086), (9, 41071), (10, 41062), (13, 40963), (14, 40948), (15, 40828), (16, 40810), (17, 40771), (18, 40762), (20, 40681), (21, 40654), (22, 40609), (23, 40606), (24, 40585), (25, 40540), (26, 40525),

Gene: Gorgeous\_60 Start: 40819, Stop: 40079, Start Num: 1

Candidate Starts for Gorgeous\_60:

(Start: 1 @40819 has 11 MA's), (2, 40789), (3, 40765), (4, 40753), (5, 40750), (6, 40744), (7, 40702), (8, 40693), (9, 40678), (10, 40669), (13, 40570), (14, 40555), (15, 40435), (16, 40417), (17, 40378), (18, 40369), (20, 40288), (21, 40261), (22, 40216), (23, 40213), (24, 40192), (25, 40147), (26, 40132),

Gene: Heylee\_58 Start: 40997, Stop: 40257, Start Num: 1

Candidate Starts for Heylee\_58:

(Start: 1 @40997 has 11 MA's), (2, 40967), (3, 40943), (4, 40931), (5, 40928), (6, 40922), (7, 40880), (8, 40871), (9, 40856), (10, 40847), (13, 40748), (14, 40733), (15, 40613), (16, 40595), (17, 40556), (18, 40547), (20, 40466), (21, 40439), (22, 40394), (23, 40391), (24, 40370), (25, 40325), (26, 40310),

Gene: Ichor\_60 Start: 41212, Stop: 40472, Start Num: 1

Candidate Starts for Ichor\_60:

(Start: 1 @41212 has 11 MA's), (2, 41182), (3, 41158), (4, 41146), (5, 41143), (6, 41137), (7, 41095), (8, 41086), (9, 41071), (10, 41062), (13, 40963), (14, 40948), (15, 40828), (16, 40810), (17, 40771), (18, 40762), (20, 40681), (21, 40654), (22, 40609), (23, 40606), (24, 40585), (25, 40540), (26, 40525),

Gene: Jaek\_60 Start: 41212, Stop: 40472, Start Num: 1

Candidate Starts for Jaek\_60:

(Start: 1 @41212 has 11 MA's), (2, 41182), (3, 41158), (4, 41146), (5, 41143), (6, 41137), (7, 41095), (8, 41086), (9, 41071), (10, 41062), (13, 40963), (14, 40948), (15, 40828), (16, 40810), (17, 40771), (18, 40762), (20, 40681), (21, 40654), (22, 40609), (23, 40606), (24, 40585), (25, 40540), (26, 40525),

Gene: Molivia\_62 Start: 39615, Stop: 38878, Start Num: 1

Candidate Starts for Molivia\_62:

(Start: 1 @39615 has 11 MA's), (4, 39552), (5, 39549), (6, 39543), (7, 39501), (9, 39477), (11, 39411), (12, 39375), (13, 39369), (14, 39354), (15, 39234), (16, 39216), (17, 39177), (18, 39168), (19, 39117), (20, 39087), (22, 39015), (25, 38946), (26, 38931),

Gene: Rings\_61 Start: 41260, Stop: 40520, Start Num: 1

Candidate Starts for Rings\_61:

(Start: 1 @41260 has 11 MA's), (2, 41230), (3, 41206), (4, 41194), (5, 41191), (6, 41185), (7, 41143), (8, 41134), (9, 41119), (10, 41110), (13, 41011), (14, 40996), (15, 40876), (16, 40858), (17, 40819), (18, 40810), (20, 40729), (21, 40702), (22, 40657), (23, 40654), (24, 40633), (25, 40588), (26, 40573),

Gene: SorJuana\_60 Start: 40819, Stop: 40079, Start Num: 1

Candidate Starts for SorJuana\_60:

(Start: 1 @40819 has 11 MA's), (2, 40789), (3, 40765), (4, 40753), (5, 40750), (6, 40744), (7, 40702), (8, 40693), (9, 40678), (10, 40669), (13, 40570), (14, 40555), (15, 40435), (16, 40417), (17, 40378), (18, 40369), (20, 40288), (21, 40261), (22, 40216), (23, 40213), (24, 40192), (25, 40147), (26, 40132),

Gene: Thunderclap\_60 Start: 41241, Stop: 40501, Start Num: 1

Candidate Starts for Thunderclap\_60:

(Start: 1 @41241 has 11 MA's), (2, 41211), (3, 41187), (4, 41175), (5, 41172), (6, 41166), (7, 41124), (8, 41115), (9, 41100), (10, 41091), (13, 40992), (14, 40977), (15, 40857), (16, 40839), (17, 40800), (18, 40791), (20, 40710), (21, 40683), (22, 40638), (23, 40635), (24, 40614), (25, 40569), (26, 40554),

Gene: Yeezus\_60 Start: 41211, Stop: 40471, Start Num: 1

Candidate Starts for Yeezus\_60:

(Start: 1 @41211 has 11 MA's), (2, 41181), (3, 41157), (4, 41145), (5, 41142), (6, 41136), (7, 41094), (8, 41085), (9, 41070), (10, 41061), (13, 40962), (14, 40947), (15, 40827), (16, 40809), (17, 40770), (18, 40761), (20, 40680), (21, 40653), (22, 40608), (23, 40605), (24, 40584), (25, 40539), (26, 40524),