



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 163093 Report

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

Pham number 163093 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),