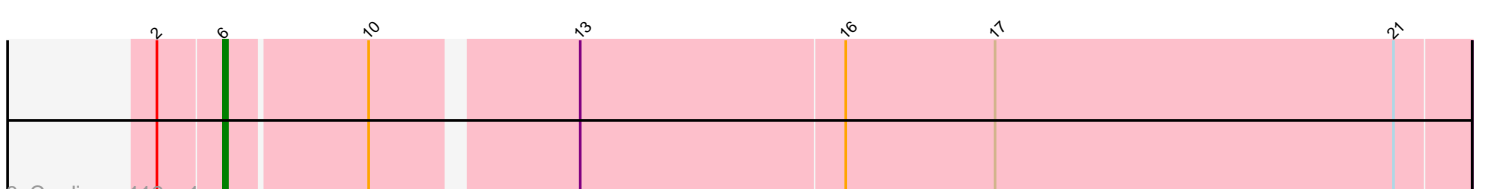
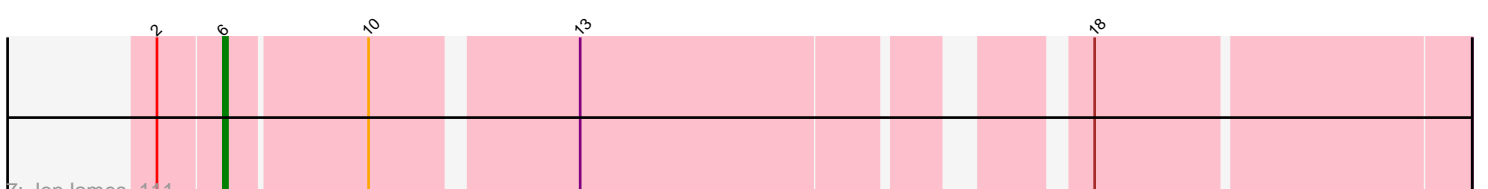
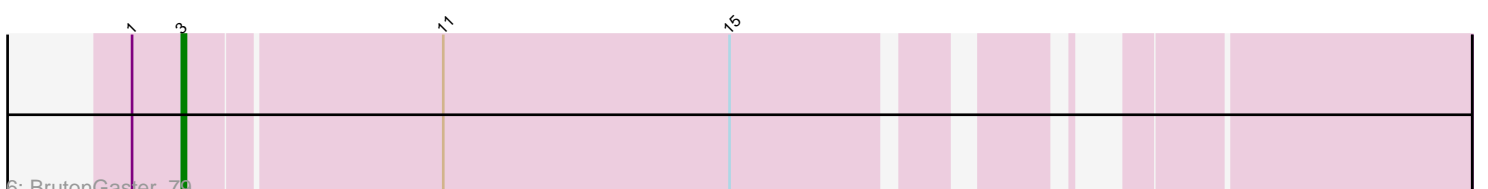
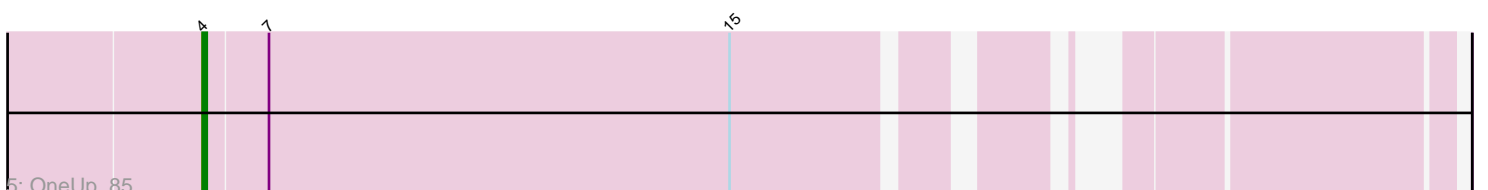
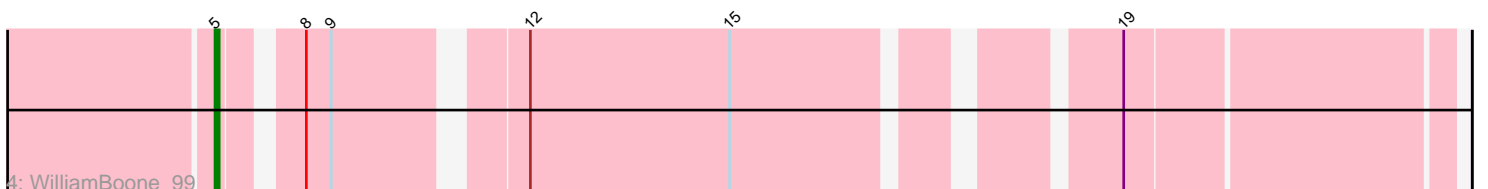
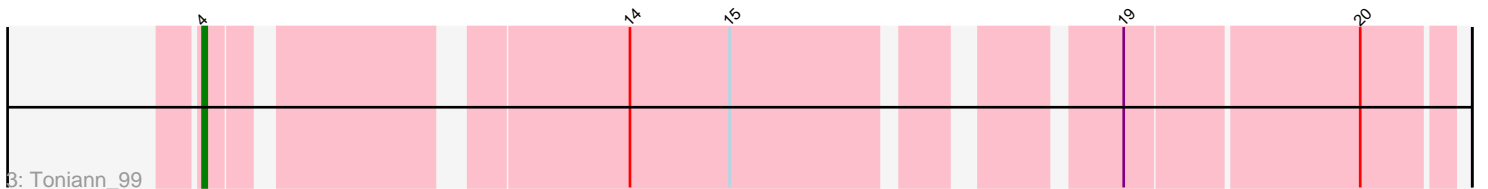
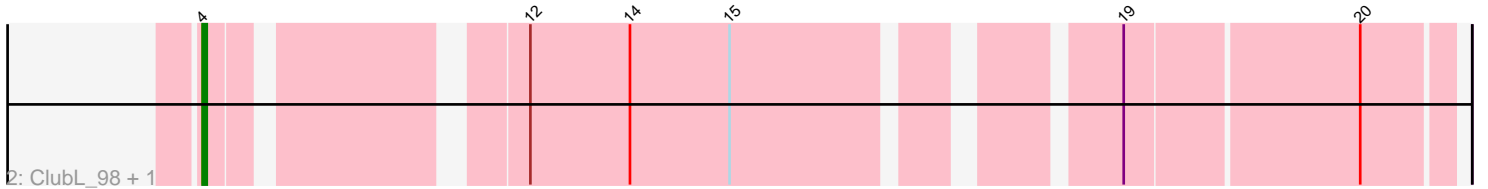
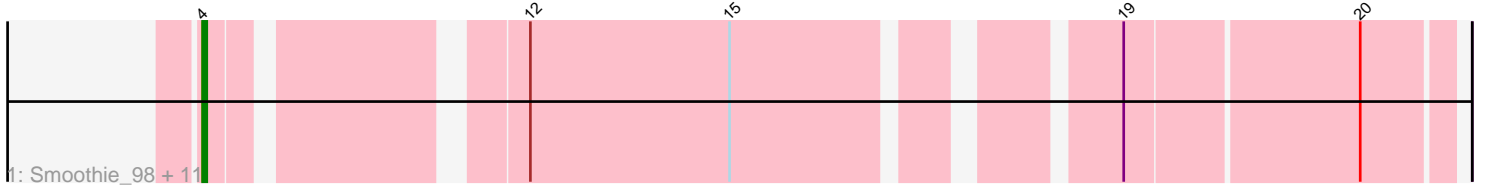


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309289 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309289 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Smoothie_98, Engineer_98, Dusty_95, Abscondus_96, Lozinak_97, PhinkBoden_96, Cucurbita_98, Geeche_96, Norvs_99, Aphelion_98, Bachita_99, Miskis_91
- Track 2 : ClubL_98, Culver_99
- Track 3 : Toniann_99
- Track 4 : WilliamBoone_99
- Track 5 : OneUp_85
- Track 6 : BrutonGaster_79
- Track 7 : JonJames_111
- Track 8 : Cardigan_112, Yvonnetastic_108

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

The start number called the most often in the published annotations is 4, it was called in 15 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_96, Aphelion_98, Bachita_99, ClubL_98, Cucurbita_98, Culver_99, Dusty_95, Engineer_98, Geeche_96, Lozinak_97, Miskis_91, Norvs_99, OneUp_85, PhinkBoden_96, Smoothie_98, Toniann_99,

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

-

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

- BrutonGaster_79, Cardigan_112, JonJames_111, WilliamBoone_99, Yvonnetastic_108,

Summary by start number:

Start 3:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BrutonGaster_79 (CQ2),

Start 4:

- Found in 16 of 21 (76.2%) of genes in pham
- Manual Annotations of this start: 15 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_96 (CQ1), Aphelion_98 (CQ1), Bachita_99 (CQ1), ClubL_98 (CQ1), Cucurbita_98 (CQ1), Culver_99 (CQ1), Dusty_95 (CQ1), Engineer_98 (CQ1), Geeche_96 (CQ1), Lozinak_97 (CQ1), Miskis_91 (CQ1), Norvs_99 (CQ1), OneUp_85 (CQ2), PhinkBoden_96 (CQ1), Smoothie_98 (CQ1), Toniann_99 (CQ1),

Start 5:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WilliamBoone_99 (CQ1),

Start 6:

- Found in 3 of 21 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_112 (DD), JonJames_111 (DD), Yvonnetastic_108 (DD),

Summary by clusters:

There are 3 clusters represented in this pham: CQ2, CQ1, DD,

Info for manual annotations of cluster CQ1:

- Start number 4 was manually annotated 14 times for cluster CQ1.
- Start number 5 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 3 was manually annotated 1 time for cluster CQ2.
- Start number 4 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DD:

- Start number 6 was manually annotated 2 times for cluster DD.

Gene Information:

Gene: Abscondus_96 Start: 58729, Stop: 58992, Start Num: 4

Candidate Starts for Abscondus_96:

(Start: 4 @58729 has 15 MA's), (12, 58792), (15, 58840), (19, 58918), (20, 58972),

Gene: Aphelion_98 Start: 60282, Stop: 60545, Start Num: 4

Candidate Starts for Aphelion_98:

(Start: 4 @60282 has 15 MA's), (12, 60345), (15, 60393), (19, 60471), (20, 60525),

Gene: Bachita_99 Start: 59940, Stop: 60203, Start Num: 4

Candidate Starts for Bachita_99:

(Start: 4 @59940 has 15 MA's), (12, 60003), (15, 60051), (19, 60129), (20, 60183),

Gene: BrutonGaster_79 Start: 54284, Stop: 54559, Start Num: 3

Candidate Starts for BrutonGaster_79:

(1, 54272), (Start: 3 @54284 has 1 MA's), (11, 54344), (15, 54413),

Gene: Cardigan_112 Start: 64379, Stop: 64669, Start Num: 6

Candidate Starts for Cardigan_112:

(2, 64364), (Start: 6 @64379 has 2 MA's), (10, 64412), (13, 64457), (16, 64520), (17, 64556), (21, 64652),

Gene: ClubL_98 Start: 58872, Stop: 59135, Start Num: 4

Candidate Starts for ClubL_98:

(Start: 4 @58872 has 15 MA's), (12, 58935), (14, 58959), (15, 58983), (19, 59061), (20, 59115),

Gene: Cucurbita_98 Start: 60447, Stop: 60710, Start Num: 4

Candidate Starts for Cucurbita_98:

(Start: 4 @60447 has 15 MA's), (12, 60510), (15, 60558), (19, 60636), (20, 60690),

Gene: Culver_99 Start: 58772, Stop: 59035, Start Num: 4

Candidate Starts for Culver_99:

(Start: 4 @58772 has 15 MA's), (12, 58835), (14, 58859), (15, 58883), (19, 58961), (20, 59015),

Gene: Dusty_95 Start: 58788, Stop: 59051, Start Num: 4

Candidate Starts for Dusty_95:

(Start: 4 @58788 has 15 MA's), (12, 58851), (15, 58899), (19, 58977), (20, 59031),

Gene: Engineer_98 Start: 59913, Stop: 60176, Start Num: 4

Candidate Starts for Engineer_98:

(Start: 4 @59913 has 15 MA's), (12, 59976), (15, 60024), (19, 60102), (20, 60156),

Gene: Geeche_96 Start: 59011, Stop: 59274, Start Num: 4

Candidate Starts for Geeche_96:

(Start: 4 @59011 has 15 MA's), (12, 59074), (15, 59122), (19, 59200), (20, 59254),

Gene: JonJames_111 Start: 64911, Stop: 65180, Start Num: 6

Candidate Starts for JonJames_111:

(2, 64896), (Start: 6 @64911 has 2 MA's), (10, 64944), (13, 64989), (18, 65094),

Gene: Lozinak_97 Start: 59751, Stop: 60014, Start Num: 4

Candidate Starts for Lozinak_97:

(Start: 4 @59751 has 15 MA's), (12, 59814), (15, 59862), (19, 59940), (20, 59994),

Gene: Miskis_91 Start: 58451, Stop: 58714, Start Num: 4

Candidate Starts for Miskis_91:

(Start: 4 @58451 has 15 MA's), (12, 58514), (15, 58562), (19, 58640), (20, 58694),

Gene: Norvs_99 Start: 59780, Stop: 60043, Start Num: 4

Candidate Starts for Norvs_99:

(Start: 4 @59780 has 15 MA's), (12, 59843), (15, 59891), (19, 59969), (20, 60023),

Gene: OneUp_85 Start: 56155, Stop: 56421, Start Num: 4

Candidate Starts for OneUp_85:

(Start: 4 @56155 has 15 MA's), (7, 56170), (15, 56281),

Gene: PhinkBoden_96 Start: 59541, Stop: 59804, Start Num: 4

Candidate Starts for PhinkBoden_96:

(Start: 4 @59541 has 15 MA's), (12, 59604), (15, 59652), (19, 59730), (20, 59784),

Gene: Smoothie_98 Start: 59751, Stop: 60014, Start Num: 4

Candidate Starts for Smoothie_98:

(Start: 4 @59751 has 15 MA's), (12, 59814), (15, 59862), (19, 59940), (20, 59994),

Gene: Toniann_99 Start: 59720, Stop: 59983, Start Num: 4

Candidate Starts for Toniann_99:

(Start: 4 @59720 has 15 MA's), (14, 59807), (15, 59831), (19, 59909), (20, 59963),

Gene: WilliamBoone_99 Start: 58486, Stop: 58746, Start Num: 5

Candidate Starts for WilliamBoone_99:

(Start: 5 @58486 has 1 MA's), (8, 58501), (9, 58507), (12, 58546), (15, 58594), (19, 58672),

Gene: Yvonnetastic_108 Start: 62075, Stop: 62365, Start Num: 6

Candidate Starts for Yvonnetastic_108:

(2, 62060), (Start: 6 @62075 has 2 MA's), (10, 62108), (13, 62153), (16, 62216), (17, 62252), (21, 62348),