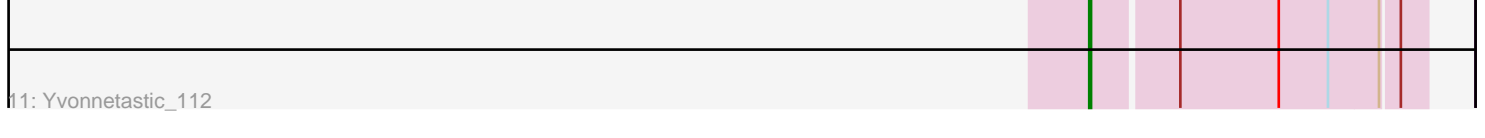
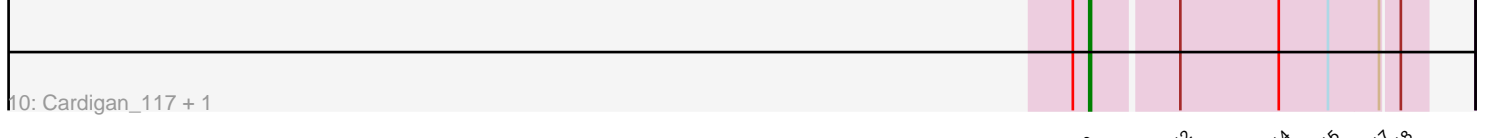
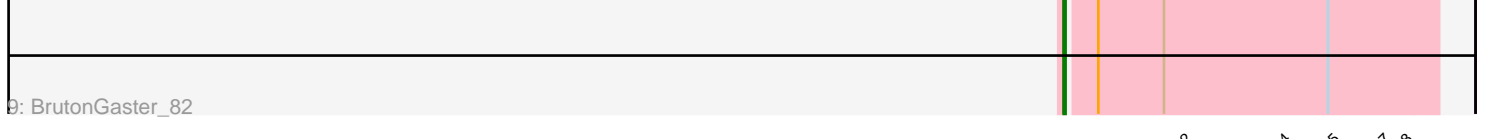
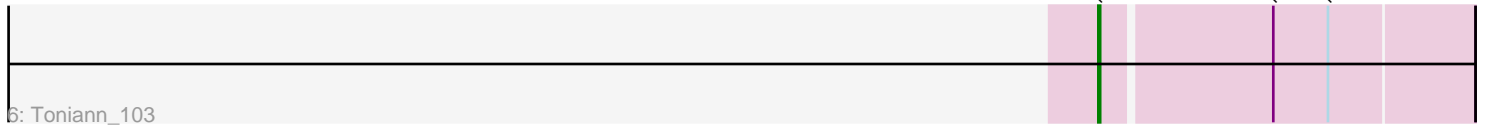
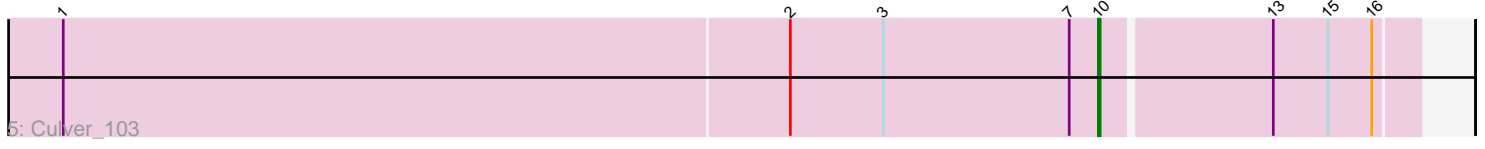
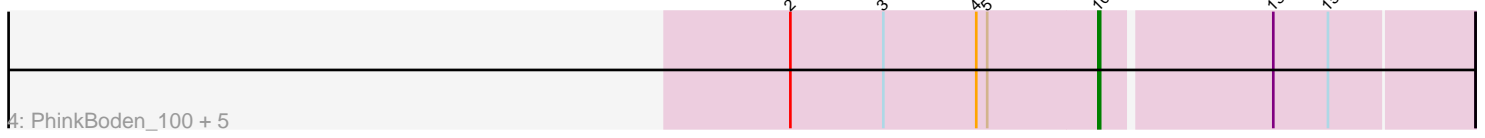
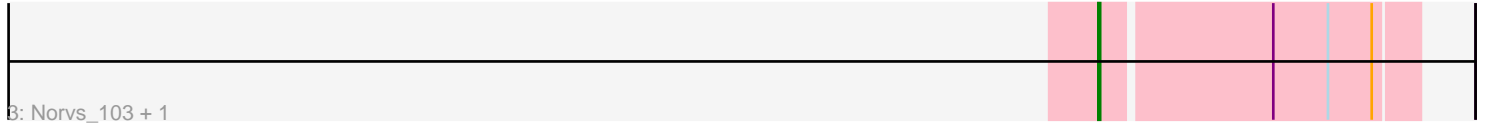
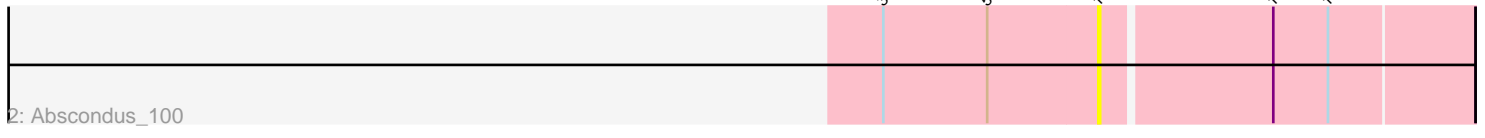
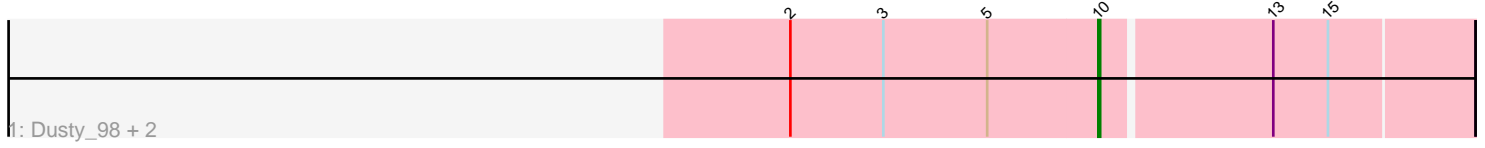


Pham 156707



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 156707 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156707 has 20 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Dusty_98, Aphelion_102, Miskis_99
- Track 2 : Abscondus_100
- Track 3 : Norvs_103, ClubL_102
- Track 4 : PhinkBoden_100, Cucurbita_102, Smoothie_102, Lozinak_101, Bachita_103, Engineer_102
- Track 5 : Culver_103
- Track 6 : Toniann_103
- Track 7 : WilliamBoone_103
- Track 8 : OneUp_88
- Track 9 : BrutonGaster_82
- Track 10 : Cardigan_117, JonJames_116
- Track 11 : Yvonnetastic_112

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

The start number called the most often in the published annotations is 10, it was called in 13 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_100, Aphelion_102, Bachita_103, ClubL_102, Cucurbita_102, Culver_103, Dusty_98, Engineer_102, Lozinak_101, Miskis_99, Norvs_103, OneUp_88, PhinkBoden_100, Smoothie_102, Toniann_103, WilliamBoone_103,

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

- BrutonGaster_82,

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

- Cardigan_117, JonJames_116, Yvonnetastic_112,

Summary by start number:

Start 6:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 16

- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_82 (CQ2),

Start 9:

- Found in 3 of 20 (15.0%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_117 (DD), JonJames_116 (DD), Yvonnetastic_112 (DD),

Start 10:

- Found in 17 of 20 (85.0%) of genes in pham
- Manual Annotations of this start: 13 of 16
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Abscondus_100 (CQ), Aphelion_102 (CQ1), Bachita_103 (CQ1), ClubL_102 (CQ1), Cucurbita_102 (CQ1), Culver_103 (CQ1), Dusty_98 (CQ), Engineer_102 (CQ1), Lozinak_101 (CQ1), Miskis_99 (CQ), Norvs_103 (CQ), OneUp_88 (CQ2), PhinkBoden_100 (CQ1), Smoothie_102 (CQ1), Toniann_103 (CQ1), WilliamBoone_103 (CQ1),

Summary by clusters:

There are 4 clusters represented in this pham: CQ2, DD, CQ, CQ1,

Info for manual annotations of cluster CQ:

- Start number 10 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 10 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 6 was manually annotated 1 time for cluster CQ2.
- Start number 10 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DD:

- Start number 9 was manually annotated 2 times for cluster DD.

Gene Information:

Gene: Abscondus_100 Start: 59662, Stop: 59859, Start Num: 10

Candidate Starts for Abscondus_100:

(3, 59545), (5, 59602), (Start: 10 @59662 has 13 MA's), (13, 59752), (15, 59782),

Gene: Aphelion_102 Start: 61215, Stop: 61412, Start Num: 10

Candidate Starts for Aphelion_102:

(2, 61047), (3, 61098), (5, 61155), (Start: 10 @61215 has 13 MA's), (13, 61305), (15, 61335),

Gene: Bachita_103 Start: 60873, Stop: 61070, Start Num: 10

Candidate Starts for Bachita_103:

(2, 60705), (3, 60756), (4, 60807), (5, 60813), (Start: 10 @60873 has 13 MA's), (13, 60963), (15, 60993),

Gene: BrutonGaster_82 Start: 54964, Stop: 55164, Start Num: 6
Candidate Starts for BrutonGaster_82:
(Start: 6 @54964 has 1 MA's), (Start: 10 @54979 has 13 MA's), (11, 55015), (15, 55105),

Gene: Cardigan_117 Start: 66367, Stop: 66543, Start Num: 9
Candidate Starts for Cardigan_117:
(8, 66358), (Start: 9 @66367 has 2 MA's), (12, 66412), (14, 66466), (15, 66493), (17, 66520), (18, 66529),

Gene: ClubL_102 Start: 59803, Stop: 59970, Start Num: 10
Candidate Starts for ClubL_102:
(Start: 10 @59803 has 13 MA's), (13, 59893), (15, 59923), (16, 59947),

Gene: Cucurbita_102 Start: 61380, Stop: 61577, Start Num: 10
Candidate Starts for Cucurbita_102:
(2, 61212), (3, 61263), (4, 61314), (5, 61320), (Start: 10 @61380 has 13 MA's), (13, 61470), (15, 61500),

Gene: Culver_103 Start: 59702, Stop: 59869, Start Num: 10
Candidate Starts for Culver_103:
(1, 59138), (2, 59534), (3, 59585), (7, 59687), (Start: 10 @59702 has 13 MA's), (13, 59792), (15, 59822), (16, 59846),

Gene: Dusty_98 Start: 59721, Stop: 59918, Start Num: 10
Candidate Starts for Dusty_98:
(2, 59553), (3, 59604), (5, 59661), (Start: 10 @59721 has 13 MA's), (13, 59811), (15, 59841),

Gene: Engineer_102 Start: 60846, Stop: 61043, Start Num: 10
Candidate Starts for Engineer_102:
(2, 60678), (3, 60729), (4, 60780), (5, 60786), (Start: 10 @60846 has 13 MA's), (13, 60936), (15, 60966),

Gene: JonJames_116 Start: 66878, Stop: 67054, Start Num: 9
Candidate Starts for JonJames_116:
(8, 66869), (Start: 9 @66878 has 2 MA's), (12, 66923), (14, 66977), (15, 67004), (17, 67031), (18, 67040),

Gene: Lozinak_101 Start: 60684, Stop: 60881, Start Num: 10
Candidate Starts for Lozinak_101:
(2, 60516), (3, 60567), (4, 60618), (5, 60624), (Start: 10 @60684 has 13 MA's), (13, 60774), (15, 60804),

Gene: Miskis_99 Start: 59384, Stop: 59581, Start Num: 10
Candidate Starts for Miskis_99:
(2, 59216), (3, 59267), (5, 59324), (Start: 10 @59384 has 13 MA's), (13, 59474), (15, 59504),

Gene: Norvs_103 Start: 60711, Stop: 60878, Start Num: 10
Candidate Starts for Norvs_103:
(Start: 10 @60711 has 13 MA's), (13, 60801), (15, 60831), (16, 60855),

Gene: OneUp_88 Start: 56848, Stop: 57033, Start Num: 10
Candidate Starts for OneUp_88:

(Start: 10 @56848 has 13 MA's), (15, 56974),

Gene: PhinkBoden_100 Start: 60474, Stop: 60671, Start Num: 10

Candidate Starts for PhinkBoden_100:

(2, 60306), (3, 60357), (4, 60408), (5, 60414), (Start: 10 @60474 has 13 MA's), (13, 60564), (15, 60594),

Gene: Smoothie_102 Start: 60684, Stop: 60881, Start Num: 10

Candidate Starts for Smoothie_102:

(2, 60516), (3, 60567), (4, 60618), (5, 60624), (Start: 10 @60684 has 13 MA's), (13, 60774), (15, 60804),

Gene: Toniann_103 Start: 60654, Stop: 60851, Start Num: 10

Candidate Starts for Toniann_103:

(Start: 10 @60654 has 13 MA's), (13, 60744), (15, 60774),

Gene: WilliamBoone_103 Start: 59422, Stop: 59619, Start Num: 10

Candidate Starts for WilliamBoone_103:

(Start: 10 @59422 has 13 MA's), (13, 59512), (15, 59542), (16, 59566), (19, 59590),

Gene: Yvonnetastic_112 Start: 63521, Stop: 63697, Start Num: 9

Candidate Starts for Yvonnetastic_112:

(Start: 9 @63521 has 2 MA's), (12, 63566), (14, 63620), (15, 63647), (17, 63674), (18, 63683),