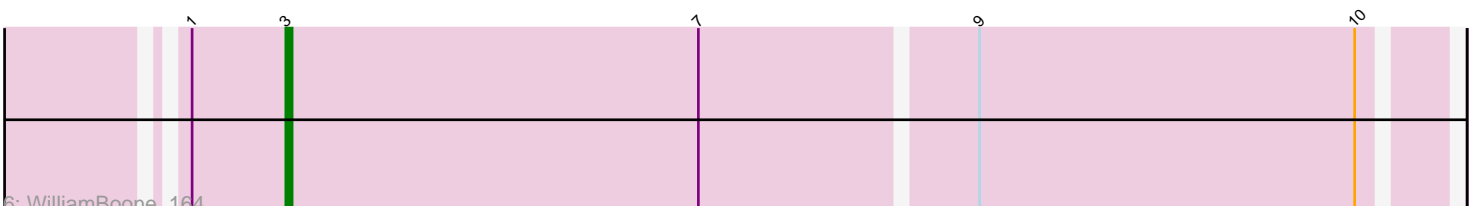
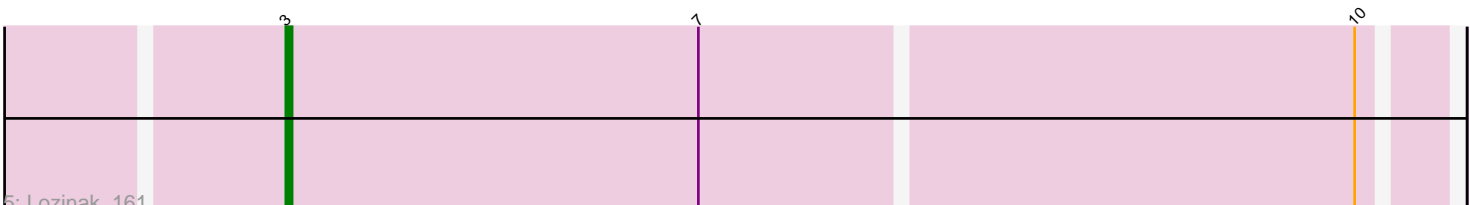
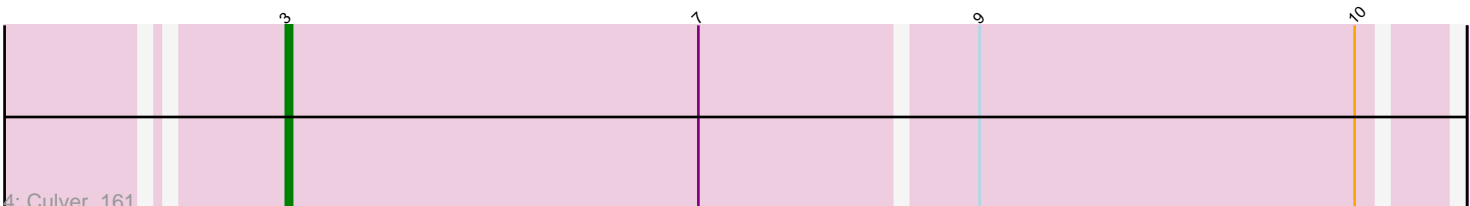
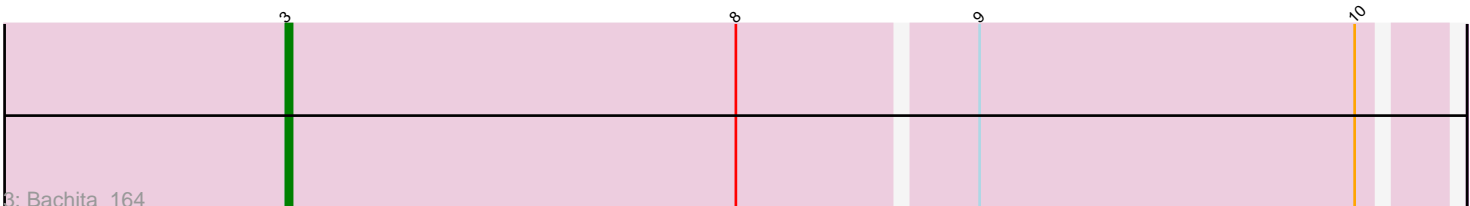
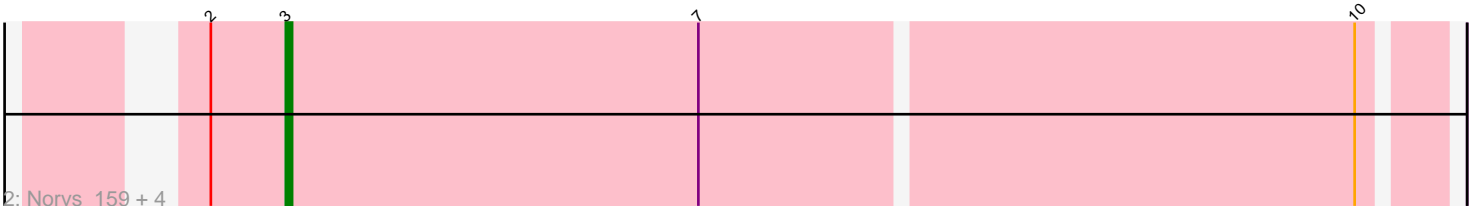
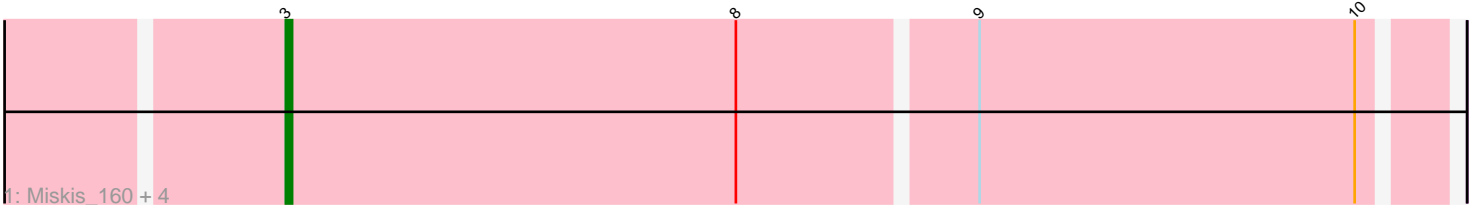


Pham 4832



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 4832 Report

This analysis was run 04/05/24 on database version 557.

Pham number 4832 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Miskis_160, Smoothie_163, Abscondus_160, Aphelion_160, Engineer_162
- Track 2 : Norvs_159, Toniann_161, Cucurbita_160, ClubL_162, PhinkBoden_159
- Track 3 : Bachita_164
- Track 4 : Culver_161
- Track 5 : Lozinak_161
- Track 6 : WilliamBoone_164
- Track 7 : BrutonGaster_168

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

The start number called the most often in the published annotations is 3, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_160, Aphelion_160, Bachita_164, ClubL_162, Cucurbita_160, Culver_161, Engineer_162, Lozinak_161, Miskis_160, Norvs_159, PhinkBoden_159, Smoothie_163, Toniann_161, WilliamBoone_164,

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

-

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

- BrutonGaster_168,

Summary by start number:

Start 3:

- Found in 14 of 15 (93.3%) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_160 (CQ), Aphelion_160 (CQ1), Bachita_164 (CQ1), ClubL_162 (CQ1), Cucurbita_160 (CQ1), Culver_161 (CQ1), Engineer_162 (CQ1), Lozinak_161 (CQ1), Miskis_160 (CQ), Norvs_159 (CQ), PhinkBoden_159 (CQ1), Smoothie_163 (CQ1), Toniann_161 (CQ1),

WilliamBoone_164 (CQ1),

Start 4:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_168 (CQ2),

Summary by clusters:

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

Info for manual annotations of cluster CQ:

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

Info for manual annotations of cluster CQ1:

- Start number 3 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

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

Gene Information:

Gene: Abscondus_160 Start: 84109, Stop: 83930, Start Num: 3

Candidate Starts for Abscondus_160:

(Start: 3 @84109 has 12 MA's), (8, 84037), (9, 84001), (10, 83941),

Gene: Aphelion_160 Start: 85065, Stop: 84886, Start Num: 3

Candidate Starts for Aphelion_160:

(Start: 3 @85065 has 12 MA's), (8, 84993), (9, 84957), (10, 84897),

Gene: Bachita_164 Start: 85149, Stop: 84970, Start Num: 3

Candidate Starts for Bachita_164:

(Start: 3 @85149 has 12 MA's), (8, 85077), (9, 85041), (10, 84981),

Gene: BrutonGaster_168 Start: 89330, Stop: 89151, Start Num: 4

Candidate Starts for BrutonGaster_168:

(Start: 4 @89330 has 1 MA's), (5, 89327), (6, 89300), (9, 89228),

Gene: ClubL_162 Start: 84401, Stop: 84222, Start Num: 3

Candidate Starts for ClubL_162:

(2, 84413), (Start: 3 @84401 has 12 MA's), (7, 84335), (10, 84233),

Gene: Cucurbita_160 Start: 85462, Stop: 85283, Start Num: 3

Candidate Starts for Cucurbita_160:

(2, 85474), (Start: 3 @85462 has 12 MA's), (7, 85396), (10, 85294),

Gene: Culver_161 Start: 83628, Stop: 83449, Start Num: 3

Candidate Starts for Culver_161:

(Start: 3 @83628 has 12 MA's), (7, 83562), (9, 83520), (10, 83460),

Gene: Engineer_162 Start: 84783, Stop: 84604, Start Num: 3
Candidate Starts for Engineer_162:
(Start: 3 @84783 has 12 MA's), (8, 84711), (9, 84675), (10, 84615),

Gene: Lozinak_161 Start: 84990, Stop: 84811, Start Num: 3
Candidate Starts for Lozinak_161:
(Start: 3 @84990 has 12 MA's), (7, 84924), (10, 84822),

Gene: Miskis_160 Start: 83814, Stop: 83635, Start Num: 3
Candidate Starts for Miskis_160:
(Start: 3 @83814 has 12 MA's), (8, 83742), (9, 83706), (10, 83646),

Gene: Norvs_159 Start: 84181, Stop: 84002, Start Num: 3
Candidate Starts for Norvs_159:
(2, 84193), (Start: 3 @84181 has 12 MA's), (7, 84115), (10, 84013),

Gene: PhinkBoden_159 Start: 84579, Stop: 84400, Start Num: 3
Candidate Starts for PhinkBoden_159:
(2, 84591), (Start: 3 @84579 has 12 MA's), (7, 84513), (10, 84411),

Gene: Smoothie_163 Start: 84862, Stop: 84683, Start Num: 3
Candidate Starts for Smoothie_163:
(Start: 3 @84862 has 12 MA's), (8, 84790), (9, 84754), (10, 84694),

Gene: Toniann_161 Start: 84322, Stop: 84143, Start Num: 3
Candidate Starts for Toniann_161:
(2, 84334), (Start: 3 @84322 has 12 MA's), (7, 84256), (10, 84154),

Gene: WilliamBoone_164 Start: 82983, Stop: 82804, Start Num: 3
Candidate Starts for WilliamBoone_164:
(1, 82998), (Start: 3 @82983 has 12 MA's), (7, 82917), (9, 82875), (10, 82815),