Pham 5111


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 5111 Report

This analysis was run 04/05/24 on database version 557.
Pham number 5111 has 13 members, 1 are drafts.
Phages represented in each track:

- Track 1 : Lozinak_82, Cucurbita_83, Abscondus_81, PhinkBoden_81, Toniann_82, Aphelion_81
- Track 2 : ClubL_81, Smoothie_83, Bachita_83, Engineer_83, Norvs_82,

WilliamBoone_81

- Track 3 : Culver_83


## 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 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bachita_83, ClubL_81, Culver_83, Engineer_83, Norvs_82, Smoothie_83, WilliamBōone_81,

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

- Abscondus_81, Aphelion_81, Cucurbita_83, Lozinak_82, PhinkBoden_81, Toniann_82,

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

## Summary by start number:

Start 2:

- Found in 13 of 13 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 5 of 12
- Called $46.2 \%$ of time when present
- Phage (with cluster) where this start called: Abscondus_81 (CQ), Aphelion_81
(CQ1), Cucurbita_83 (CQ1), Lozinak_82 (CQ1), PhinkBoden_81 (CQ1), Toniann_82 (CQ1),

Start 3:

- Found in 13 of 13 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 7 of 12
- Called $53.8 \%$ of time when present
- Phage (with cluster) where this start called: Bachita_83 (CQ1), ClubL_81 (CQ1), Culver_83 (CQ1), Engineer_83 (CQ1), Norvs_82 (CQ), Smoothie_83 (CQ1), WilliamBoone_81 (CQ1),


## Summary by clusters:

There are 2 clusters represented in this pham: 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 2 was manually annotated 5 times for cluster CQ1.
- Start number 3 was manually annotated 6 times for cluster CQ1.


## Gene Information:

Gene: Abscondus_81 Start: 50101, Stop: 50412, Start Num: 2
Candidate Starts for Abscondus_81:
(1, 49981), (Start: 2 @50101 has 5 MA's), (Start: 3 @50110 has 7 MA's), (4, 50185), (5, 50194), (6, 50290), (7, 50317),

Gene: Aphelion_81 Start: 50723, Stop: 51034, Start Num: 2
Candidate Starts for Aphelion_81:
(1, 50603), (Start: 2 @50723 has 5 MA's), (Start: 3 @50732 has 7 MA's), (4, 50807), (5, 50816), (6, 50912), (7, 50939),

Gene: Bachita_83 Start: 51157, Stop: 51459, Start Num: 3
Candidate Starts for Bachita_83:
(1, 51028), (Start: 2 @51148 has 5 MA's), (Start: 3 @51157 has 7 MA's), (4, 51232), (5, 51241), (6, 51337), (7, 51364),

Gene: ClubL_81 Start: 49845, Stop: 50147, Start Num: 3
Candidate Starts for ClubL_81:
(1, 49716), (Start: 2 @49836 has 5 MA's), (Start: 3 @49845 has 7 MA's), (4, 49920), (5, 49929), (6, 50025), (7, 50052),

Gene: Cucurbita_83 Start: 51655, Stop: 51966, Start Num: 2
Candidate Starts for Cucurbita_83:
(1, 51535), (Start: 2 @51655 has 5 MA's), (Start: 3 @51664 has 7 MA's), (4, 51739), (5, 51748), (6, 51844), (7, 51871),

Gene: Culver_83 Start: 49768, Stop: 50070, Start Num: 3
Candidate Starts for Culver_83:
(Start: 2 @ 49759 has 5 MA's), (Start: 3 @49768 has 7 MA's), (4, 49843), (5, 49852), (6, 49948), (7, 49975),

Gene: Engineer_83 Start: 51130, Stop: 51432, Start Num: 3
Candidate Starts for Engineer_83:
(1, 51001), (Start: 2 @51121 has 5 MA's), (Start: 3 @51130 has 7 MA's), (4, 51205), (5, 51214), (6, 51310), (7, 51337),

Gene: Lozinak_82 Start: 50959, Stop: 51270, Start Num: 2
Candidate Starts for Lozinak 82:
(1, 50839), (Start: 2 @50959 has 5 MA's), (Start: 3 @50968 has 7 MA's), (4, 51043), (5, 51052), (6, 51148), (7, 51175),

Gene: Norvs_82 Start: 50377, Stop: 50679, Start Num: 3
Candidate Starts for Norvs_82:
(1, 50248), (Start: 2 @50368 has 5 MA's), (Start: 3 @50377 has 7 MA's), (4, 50452), (5, 50461), (6, 50557), (7, 50584),

Gene: PhinkBoden_81 Start: 50749, Stop: 51060, Start Num: 2
Candidate Starts for PhinkBoden_81:
(1, 50629), (Start: 2 @50749 has 5 MA's), (Start: 3 @50758 has 7 MA's), (4, 50833), (5, 50842), (6, 50938), (7, 50965),

Gene: Smoothie_83 Start: 50968, Stop: 51270, Start Num: 3
Candidate Starts for Smoothie_83:
(1, 50839), (Start: 2 @50959 has 5 MA's), (Start: 3 @50968 has 7 MA's), (4, 51043), (5, 51052), (6, 51148), (7, 51175),

Gene: Toniann_82 Start: 50311, Stop: 50622, Start Num: 2 Candidate Starts for Toniann_82:
(1, 50191), (Start: 2 @ 50311 has 5 MA's), (Start: 3 @50320 has 7 MA's), (4, 50395), (5, 50404), (6, 50500), (7, 50527),

Gene: WilliamBoone_81 Start: 49068, Stop: 49370, Start Num: 3 Candidate Starts for WilliamBoone_81:
(1, 48939), (Start: 2 @49059 has 5 MA's), (Start: 3 @49068 has 7 MA's), (4, 49143), (5, 49152), (6, 49248), (7, 49275),

