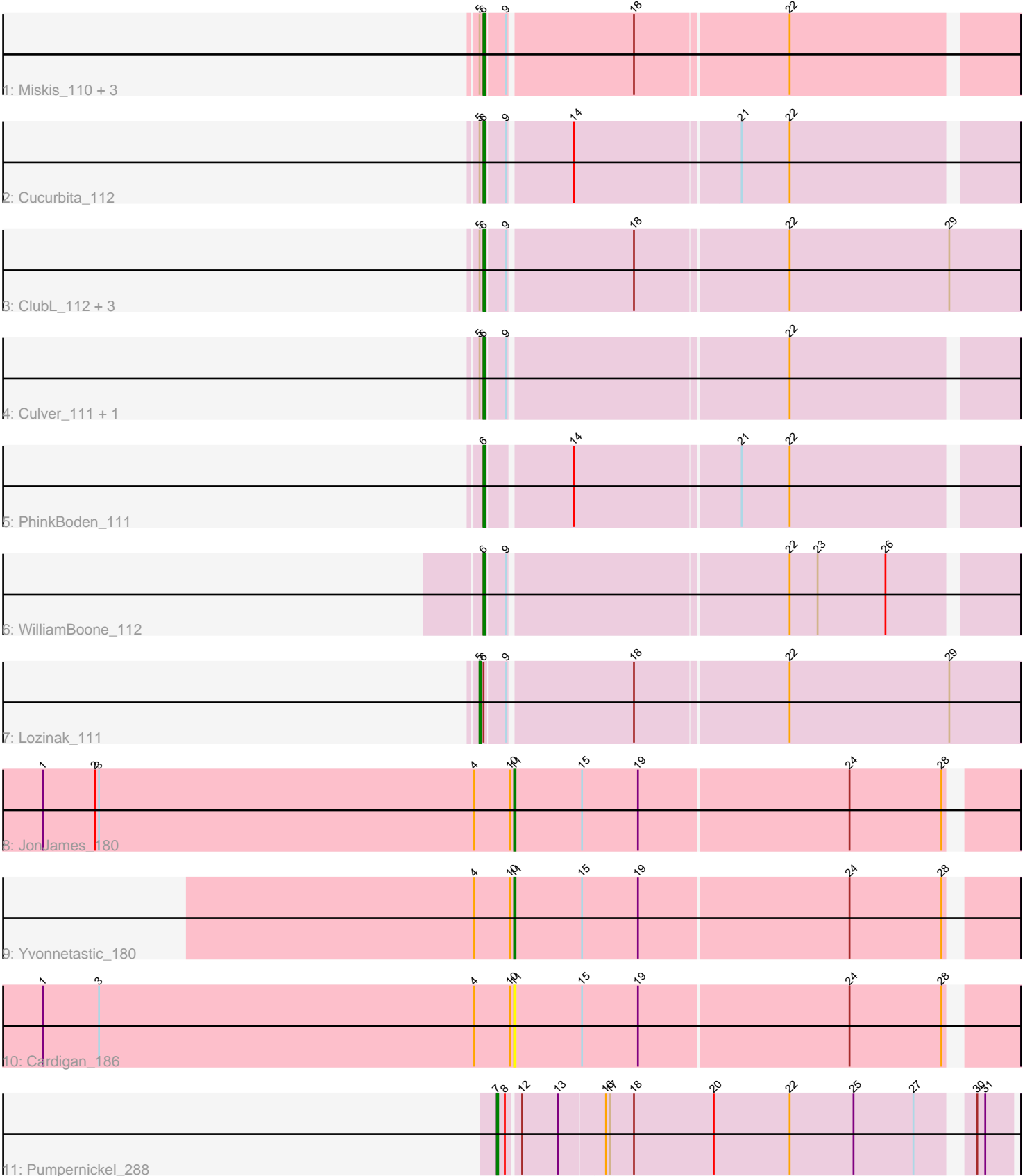


Pham 4574



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 4574 Report

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

Pham number 4574 has 18 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Miskis_110, Aphelion_112, Toniann_111, Norvs_113
- Track 2 : Cucurbita_112
- Track 3 : ClubL_112, Engineer_112, Bachita_113, Smoothie_112
- Track 4 : Culver_111, Abscondus_110
- Track 5 : PhinkBoden_111
- Track 6 : WilliamBoone_112
- Track 7 : Lozinak_111
- Track 8 : JonJames_180
- Track 9 : Yvonnetastic_180
- Track 10 : Cardigan_186
- Track 11 : Pumpernickel_288

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

The start number called the most often in the published annotations is 6, it was called in 11 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_110, Aphelion_112, Bachita_113, ClubL_112, Cucurbita_112, Culver_111, Engineer_112, Miskis_110, Norvs_113, PhinkBoden_111, Smoothie_112, Toniann_111, WilliamBoone_112,

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

- Lozinak_111,

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

- Cardigan_186, JonJames_180, Pumpernickel_288, Yvonnetastic_180,

Summary by start number:

Start 5:

- Found in 12 of 18 (66.7%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 8.3% of time when present

- Phage (with cluster) where this start called: Lozinak_111 (CQ1),

Start 6:

- Found in 14 of 18 (77.8%) of genes in pham
- Manual Annotations of this start: 11 of 15
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Abscondus_110 (CQ), Aphelion_112 (CQ1), Bachita_113 (CQ1), ClubL_112 (CQ1), Cucurbita_112 (CQ1), Culver_111 (CQ1), Engineer_112 (CQ1), Miskis_110 (CQ), Norvs_113 (CQ), PhinkBoden_111 (CQ1), Smoothie_112 (CQ1), Toniann_111 (CQ1), WilliamBoone_112 (CQ1),

Start 7:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pumpernickel_288 (GD4),

Start 11:

- Found in 3 of 18 (16.7%) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_186 (DD), JonJames_180 (DD), Yvonnetastic_180 (DD),

Summary by clusters:

There are 4 clusters represented in this pham: CQ1, GD4, CQ, DD,

Info for manual annotations of cluster CQ:

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

Info for manual annotations of cluster CQ1:

- Start number 5 was manually annotated 1 time for cluster CQ1.
- Start number 6 was manually annotated 10 times for cluster CQ1.

Info for manual annotations of cluster DD:

- Start number 11 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster GD4:

- Start number 7 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: Abscondus_110 Start: 64538, Stop: 64915, Start Num: 6

Candidate Starts for Abscondus_110:

(Start: 5 @64535 has 1 MA's), (Start: 6 @64538 has 11 MA's), (9, 64553), (22, 64754),

Gene: Aphelion_112 Start: 66091, Stop: 66468, Start Num: 6

Candidate Starts for Aphelion_112:

(Start: 5 @66088 has 1 MA's), (Start: 6 @66091 has 11 MA's), (9, 66106), (18, 66196), (22, 66307),

Gene: Bachita_113 Start: 65749, Stop: 66138, Start Num: 6
Candidate Starts for Bachita_113:
(Start: 5 @65746 has 1 MA's), (Start: 6 @65749 has 11 MA's), (9, 65764), (18, 65854), (22, 65965),
(29, 66085),

Gene: Cardigan_186 Start: 93001, Stop: 92639, Start Num: 11
Candidate Starts for Cardigan_186:
(1, 93355), (3, 93313), (4, 93031), (10, 93004), (Start: 11 @93001 has 2 MA's), (15, 92950), (19,
92908), (24, 92752), (28, 92683),

Gene: ClubL_112 Start: 64679, Stop: 65068, Start Num: 6
Candidate Starts for ClubL_112:
(Start: 5 @64676 has 1 MA's), (Start: 6 @64679 has 11 MA's), (9, 64694), (18, 64784), (22, 64895),
(29, 65015),

Gene: Cucurbita_112 Start: 66256, Stop: 66633, Start Num: 6
Candidate Starts for Cucurbita_112:
(Start: 5 @66253 has 1 MA's), (Start: 6 @66256 has 11 MA's), (9, 66271), (14, 66316), (21, 66436),
(22, 66472),

Gene: Culver_111 Start: 64010, Stop: 64387, Start Num: 6
Candidate Starts for Culver_111:
(Start: 5 @64007 has 1 MA's), (Start: 6 @64010 has 11 MA's), (9, 64025), (22, 64226),

Gene: Engineer_112 Start: 65722, Stop: 66111, Start Num: 6
Candidate Starts for Engineer_112:
(Start: 5 @65719 has 1 MA's), (Start: 6 @65722 has 11 MA's), (9, 65737), (18, 65827), (22, 65938),
(29, 66058),

Gene: JonJames_180 Start: 93921, Stop: 93559, Start Num: 11
Candidate Starts for JonJames_180:
(1, 94275), (2, 94236), (3, 94233), (4, 93951), (10, 93924), (Start: 11 @93921 has 2 MA's), (15,
93870), (19, 93828), (24, 93672), (28, 93603),

Gene: Lozinak_111 Start: 65557, Stop: 65949, Start Num: 5
Candidate Starts for Lozinak_111:
(Start: 5 @65557 has 1 MA's), (Start: 6 @65560 has 11 MA's), (9, 65575), (18, 65665), (22, 65776),
(29, 65896),

Gene: Miskis_110 Start: 64523, Stop: 64900, Start Num: 6
Candidate Starts for Miskis_110:
(Start: 5 @64520 has 1 MA's), (Start: 6 @64523 has 11 MA's), (9, 64538), (18, 64628), (22, 64739),

Gene: Norvs_113 Start: 65587, Stop: 65964, Start Num: 6
Candidate Starts for Norvs_113:
(Start: 5 @65584 has 1 MA's), (Start: 6 @65587 has 11 MA's), (9, 65602), (18, 65692), (22, 65803),

Gene: PhinkBoden_111 Start: 65861, Stop: 66238, Start Num: 6
Candidate Starts for PhinkBoden_111:
(Start: 6 @65861 has 11 MA's), (14, 65921), (21, 66041), (22, 66077),

Gene: Pumpernickel_288 Start: 160285, Stop: 160650, Start Num: 7
Candidate Starts for Pumpernickel_288:

(Start: 7 @160285 has 1 MA's), (8, 160291), (12, 160300), (13, 160327), (16, 160360), (17, 160363), (18, 160381), (20, 160441), (22, 160498), (25, 160546), (27, 160591), (30, 160624), (31, 160630),

Gene: Smoothie_112 Start: 65560, Stop: 65949, Start Num: 6

Candidate Starts for Smoothie_112:

(Start: 5 @65557 has 1 MA's), (Start: 6 @65560 has 11 MA's), (9, 65575), (18, 65665), (22, 65776), (29, 65896),

Gene: Toniann_111 Start: 64962, Stop: 65339, Start Num: 6

Candidate Starts for Toniann_111:

(Start: 5 @64959 has 1 MA's), (Start: 6 @64962 has 11 MA's), (9, 64977), (18, 65067), (22, 65178),

Gene: WilliamBoone_112 Start: 63968, Stop: 64345, Start Num: 6

Candidate Starts for WilliamBoone_112:

(Start: 6 @63968 has 11 MA's), (9, 63983), (22, 64184), (23, 64205), (26, 64256),

Gene: Yvonnetastic_180 Start: 90820, Stop: 90458, Start Num: 11

Candidate Starts for Yvonnetastic_180:

(4, 90850), (10, 90823), (Start: 11 @90820 has 2 MA's), (15, 90769), (19, 90727), (24, 90571), (28, 90502),