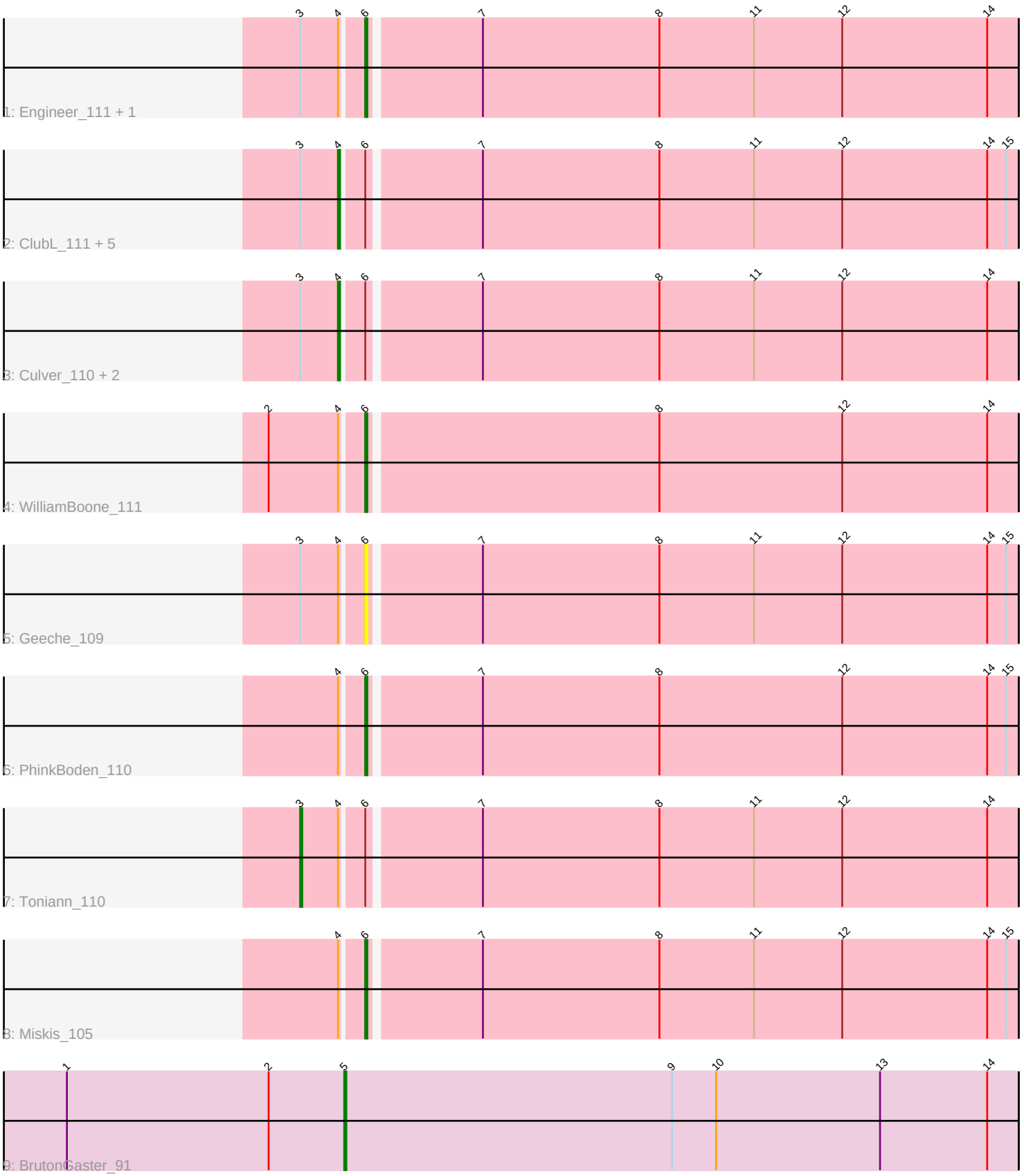
Pham 303727


3
4
6
7
8
11
12
14
1: Engineer_111 + 1
3
4
6
7
8
11
12
14
15
2: ClubL_111 + 5
3
4
6
7
8
11
12
14
3: Culver_110 + 2
2
4
6
8
12
14
4: WilliamBoone_111
3
4
6
7
8
11
12
14
15
5: Geeche_109
4
6
7
8
12
14
15
6: PhinkBoden_110
3
4
6
7
8
11
12
14
7: Toniann_110
4
6
7
8
11
12
14
15
8: Miskis_105
1
2
5
9
10
13
14
9: BrutonGaster_91

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 303727 Report

This analysis was run 06/12/26 on database version 650.

Pham number 303727 has 17 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Engineer_111, Smoothie_111
• Track 2 : ClubL_111, Cucurbita_111, Dusty_108, Aphelion_111, Norvs_112, Bachita_112
• Track 3 : Culver_110, Abscondus_109, Lozinak_110
• Track 4 : WilliamBoone_111
• Track 5 : Geeche_109
• Track 6 : PhinkBoden_110
• Track 7 : Toniann_110
• Track 8 : Miskis_105
• Track 9 : BrutonGaster_91

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 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abscondus_109, Aphelion_111, Bachita_112, ClubL_111, Cucurbita_111, Culver_110, Dusty_108, Lozinak_110, Norvs_112,

Genes that have the "Most Annotated" start but do not call it:
• Engineer_111, Geeche_109, Miskis_105, PhinkBoden_110, Smoothie_111, Toniann_110, WilliamBoone_111,

Genes that do not have the "Most Annotated" start:
• BrutonGaster_91,

Summary by start number:

Start 3:
• Found in 13 of 17 (76.5%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 7.7% of time when present
• Phage (with cluster) where this start called: Toniann_110 (CQ1),

Start 4:
• Found in 16 of 17 (94.1%) of genes in pham
• Manual Annotations of this start: 9 of 16
• Called 56.2% of time when present
• Phage (with cluster) where this start called: Abscondus_109 (CQ1), Aphelion_111 (CQ1), Bachita_112 (CQ1), ClubL_111 (CQ1), Cucurbita_111 (CQ1), Culver_110 (CQ1), Dusty_108 (CQ1), Lozinak_110 (CQ1), Norvs_112 (CQ1),

Start 5:
• Found in 1 of 17 (5.9%) 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_91 (CQ2),

Start 6:
• Found in 16 of 17 (94.1%) of genes in pham
• Manual Annotations of this start: 5 of 16
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Engineer_111 (CQ1), Geeche_109 (CQ1), Miskis_105 (CQ1), PhinkBoden_110 (CQ1), Smoothie_111 (CQ1), WilliamBoone_111 (CQ1),

Summary by clusters:

There are 2 clusters represented in this pham: CQ2, CQ1,

Info for manual annotations of cluster CQ1:
•Start number 3 was manually annotated 1 time for cluster CQ1.
•Start number 4 was manually annotated 9 times for cluster CQ1.
•Start number 6 was manually annotated 5 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 5 was manually annotated 1 time for cluster CQ2.

Gene Information:

Gene: Abscondus_109 Start: 64171, Stop: 64485, Start Num: 4
Candidate Starts for Abscondus_109:
(Start: 3 @64153 has 1 MA's), (Start: 4 @64171 has 9 MA's), (Start: 6 @64180 has 5 MA's), (7, 64231), (8, 64315), (11, 64360), (12, 64402), (14, 64471),

Gene: Aphelion_111 Start: 65724, Stop: 66038, Start Num: 4
Candidate Starts for Aphelion_111:
(Start: 3 @65706 has 1 MA's), (Start: 4 @65724 has 9 MA's), (Start: 6 @65733 has 5 MA's), (7, 65784), (8, 65868), (11, 65913), (12, 65955), (14, 66024), (15, 66033),

Gene: Bachita_112 Start: 65382, Stop: 65696, Start Num: 4
Candidate Starts for Bachita_112:
(Start: 3 @65364 has 1 MA's), (Start: 4 @65382 has 9 MA's), (Start: 6 @65391 has 5 MA's), (7, 65442), (8, 65526), (11, 65571), (12, 65613), (14, 65682), (15, 65691),

Gene: BrutonGaster_91 Start: 59582, Stop: 59902, Start Num: 5
Candidate Starts for BrutonGaster_91:
(1, 59450), (2, 59546), (Start: 5 @59582 has 1 MA's), (9, 59738), (10, 59759), (13, 59837), (14, 59888),

Gene: ClubL_111 Start: 64312, Stop: 64626, Start Num: 4
Candidate Starts for ClubL_111:
(Start: 3 @64294 has 1 MA's), (Start: 4 @64312 has 9 MA's), (Start: 6 @64321 has 5 MA's), (7, 64372), (8, 64456), (11, 64501), (12, 64543), (14, 64612), (15, 64621),

Gene: Cucurbita_111 Start: 65889, Stop: 66203, Start Num: 4
Candidate Starts for Cucurbita_111:
(Start: 3 @65871 has 1 MA's), (Start: 4 @65889 has 9 MA's), (Start: 6 @65898 has 5 MA's), (7, 65949), (8, 66033), (11, 66078), (12, 66120), (14, 66189), (15, 66198),

Gene: Culver_110 Start: 63643, Stop: 63957, Start Num: 4
Candidate Starts for Culver_110:
(Start: 3 @63625 has 1 MA's), (Start: 4 @63643 has 9 MA's), (Start: 6 @63652 has 5 MA's), (7, 63703), (8, 63787), (11, 63832), (12, 63874), (14, 63943),

Gene: Dusty_108 Start: 64230, Stop: 64544, Start Num: 4
Candidate Starts for Dusty_108:
(Start: 3 @64212 has 1 MA's), (Start: 4 @64230 has 9 MA's), (Start: 6 @64239 has 5 MA's), (7, 64290), (8, 64374), (11, 64419), (12, 64461), (14, 64530), (15, 64539),

Gene: Engineer_111 Start: 65364, Stop: 65669, Start Num: 6
Candidate Starts for Engineer_111:
(Start: 3 @65337 has 1 MA's), (Start: 4 @65355 has 9 MA's), (Start: 6 @65364 has 5 MA's), (7, 65415), (8, 65499), (11, 65544), (12, 65586), (14, 65655),

Gene: Geeche_109 Start: 64462, Stop: 64767, Start Num: 6
Candidate Starts for Geeche_109:
(Start: 3 @64435 has 1 MA's), (Start: 4 @64453 has 9 MA's), (Start: 6 @64462 has 5 MA's), (7, 64513), (8, 64597), (11, 64642), (12, 64684), (14, 64753), (15, 64762),

Gene: Lozinak_110 Start: 65193, Stop: 65507, Start Num: 4
Candidate Starts for Lozinak_110:
(Start: 3 @65175 has 1 MA's), (Start: 4 @65193 has 9 MA's), (Start: 6 @65202 has 5 MA's), (7, 65253), (8, 65337), (11, 65382), (12, 65424), (14, 65493),

Gene: Miskis_105 Start: 64165, Stop: 64470, Start Num: 6
Candidate Starts for Miskis_105:
(Start: 4 @64156 has 9 MA's), (Start: 6 @64165 has 5 MA's), (7, 64216), (8, 64300), (11, 64345), (12, 64387), (14, 64456), (15, 64465),

Gene: Norvs_112 Start: 65220, Stop: 65534, Start Num: 4
Candidate Starts for Norvs_112:
(Start: 3 @65202 has 1 MA's), (Start: 4 @65220 has 9 MA's), (Start: 6 @65229 has 5 MA's), (7, 65280), (8, 65364), (11, 65409), (12, 65451), (14, 65520), (15, 65529),

Gene: PhinkBoden_110 Start: 65503, Stop: 65808, Start Num: 6
Candidate Starts for PhinkBoden_110:

(Start: 4 @65494 has 9 MA's), (Start: 6 @65503 has 5 MA's), (7, 65554), (8, 65638), (12, 65725), (14, 65794), (15, 65803),

Gene: Smoothie_111 Start: 65202, Stop: 65507, Start Num: 6
Candidate Starts for Smoothie_111:
(Start: 3 @65175 has 1 MA's), (Start: 4 @65193 has 9 MA's), (Start: 6 @65202 has 5 MA's), (7, 65253), (8, 65337), (11, 65382), (12, 65424), (14, 65493),

Gene: Toniann_110 Start: 64577, Stop: 64909, Start Num: 3
Candidate Starts for Toniann_110:
(Start: 3 @64577 has 1 MA's), (Start: 4 @64595 has 9 MA's), (Start: 6 @64604 has 5 MA's), (7, 64655), (8, 64739), (11, 64784), (12, 64826), (14, 64895),

Gene: WilliamBoone_111 Start: 63615, Stop: 63920, Start Num: 6
Candidate Starts for WilliamBoone_111:
(2, 63573), (Start: 4 @63606 has 9 MA's), (Start: 6 @63615 has 5 MA's), (8, 63750), (12, 63837), (14, 63906),