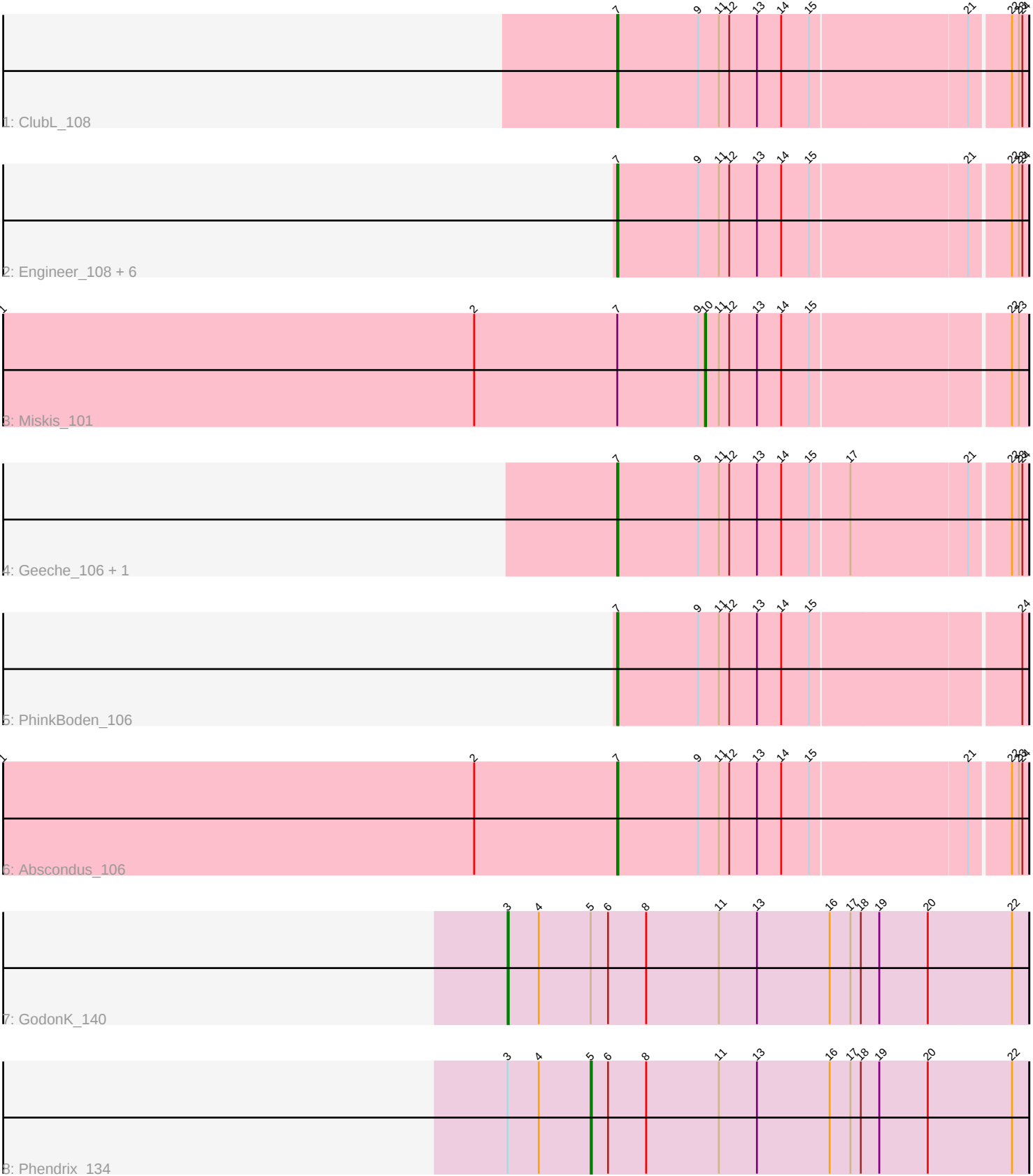


Pham 309500



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 309500 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309500 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : ClubL_108
- Track 2 : Engineer_108, Cucurbita_108, Bachita_109, Aphelion_108, Lozinak_107, Norvs_109, Smoothie_108
- Track 3 : Miskis_101
- Track 4 : Geeche_106, Dusty_105
- Track 5 : PhinkBoden_106
- Track 6 : Abscondus_106
- Track 7 : GodonK_140
- Track 8 : Phendrix_134

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

The start number called the most often in the published annotations is 7, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_106, Aphelion_108, Bachita_109, ClubL_108, Cucurbita_108, Dusty_105, Engineer_108, Geeche_106, Lozinak_107, Norvs_109, PhinkBoden_106, Smoothie_108,

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

- Miskis_101,

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

- GodonK_140, Phendrix_134,

Summary by start number:

Start 3:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GodonK_140 (DK),

Start 5:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Phendrix_134 (DK),

Start 7:

- Found in 13 of 15 (86.7%) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Abscondus_106 (CQ1), Aphelion_108 (CQ1), Bachita_109 (CQ1), ClubL_108 (CQ1), Cucurbita_108 (CQ1), Dusty_105 (CQ1), Engineer_108 (CQ1), Geeche_106 (CQ1), Lozinak_107 (CQ1), Norvs_109 (CQ1), PhinkBoden_106 (CQ1), Smoothie_108 (CQ1),

Start 10:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Miskis_101 (CQ1),

Summary by clusters:

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

Info for manual annotations of cluster CQ1:

- Start number 7 was manually annotated 11 times for cluster CQ1.
- Start number 10 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster DK:

- Start number 3 was manually annotated 1 time for cluster DK.
- Start number 5 was manually annotated 1 time for cluster DK.

Gene Information:

Gene: Abscondus_106 Start: 63224, Stop: 63568, Start Num: 7

Candidate Starts for Abscondus_106:

(1, 62693), (2, 63101), (Start: 7 @63224 has 11 MA's), (9, 63293), (11, 63311), (12, 63320), (13, 63344), (14, 63365), (15, 63389), (21, 63521), (22, 63554), (23, 63560), (24, 63563),

Gene: Aphelion_108 Start: 64777, Stop: 65121, Start Num: 7

Candidate Starts for Aphelion_108:

(Start: 7 @64777 has 11 MA's), (9, 64846), (11, 64864), (12, 64873), (13, 64897), (14, 64918), (15, 64942), (21, 65074), (22, 65107), (23, 65113), (24, 65116),

Gene: Bachita_109 Start: 64435, Stop: 64779, Start Num: 7

Candidate Starts for Bachita_109:

(Start: 7 @64435 has 11 MA's), (9, 64504), (11, 64522), (12, 64531), (13, 64555), (14, 64576), (15, 64600), (21, 64732), (22, 64765), (23, 64771), (24, 64774),

Gene: ClubL_108 Start: 63365, Stop: 63709, Start Num: 7

Candidate Starts for ClubL_108:

(Start: 7 @63365 has 11 MA's), (9, 63434), (11, 63452), (12, 63461), (13, 63485), (14, 63506), (15, 63530), (21, 63662), (22, 63695), (23, 63701), (24, 63704),

Gene: Cucurbita_108 Start: 64942, Stop: 65286, Start Num: 7

Candidate Starts for Cucurbita_108:

(Start: 7 @64942 has 11 MA's), (9, 65011), (11, 65029), (12, 65038), (13, 65062), (14, 65083), (15, 65107), (21, 65239), (22, 65272), (23, 65278), (24, 65281),

Gene: Dusty_105 Start: 63283, Stop: 63627, Start Num: 7

Candidate Starts for Dusty_105:

(Start: 7 @63283 has 11 MA's), (9, 63352), (11, 63370), (12, 63379), (13, 63403), (14, 63424), (15, 63448), (17, 63481), (21, 63580), (22, 63613), (23, 63619), (24, 63622),

Gene: Engineer_108 Start: 64408, Stop: 64752, Start Num: 7

Candidate Starts for Engineer_108:

(Start: 7 @64408 has 11 MA's), (9, 64477), (11, 64495), (12, 64504), (13, 64528), (14, 64549), (15, 64573), (21, 64705), (22, 64738), (23, 64744), (24, 64747),

Gene: Geeche_106 Start: 63506, Stop: 63850, Start Num: 7

Candidate Starts for Geeche_106:

(Start: 7 @63506 has 11 MA's), (9, 63575), (11, 63593), (12, 63602), (13, 63626), (14, 63647), (15, 63671), (17, 63704), (21, 63803), (22, 63836), (23, 63842), (24, 63845),

Gene: GodonK_140 Start: 79593, Stop: 79144, Start Num: 3

Candidate Starts for GodonK_140:

(Start: 3 @79593 has 1 MA's), (4, 79566), (Start: 5 @79521 has 1 MA's), (6, 79506), (8, 79473), (11, 79410), (13, 79377), (16, 79314), (17, 79296), (18, 79287), (19, 79272), (20, 79230), (22, 79158),

Gene: Lozinak_107 Start: 64246, Stop: 64590, Start Num: 7

Candidate Starts for Lozinak_107:

(Start: 7 @64246 has 11 MA's), (9, 64315), (11, 64333), (12, 64342), (13, 64366), (14, 64387), (15, 64411), (21, 64543), (22, 64576), (23, 64582), (24, 64585),

Gene: Miskis_101 Start: 63018, Stop: 63287, Start Num: 10

Candidate Starts for Miskis_101:

(1, 62412), (2, 62820), (Start: 7 @62943 has 11 MA's), (9, 63012), (Start: 10 @63018 has 1 MA's), (11, 63030), (12, 63039), (13, 63063), (14, 63084), (15, 63108), (22, 63273), (23, 63279),

Gene: Norvs_109 Start: 64273, Stop: 64617, Start Num: 7

Candidate Starts for Norvs_109:

(Start: 7 @64273 has 11 MA's), (9, 64342), (11, 64360), (12, 64369), (13, 64393), (14, 64414), (15, 64438), (21, 64570), (22, 64603), (23, 64609), (24, 64612),

Gene: Phendrix_134 Start: 79517, Stop: 79140, Start Num: 5

Candidate Starts for Phendrix_134:

(Start: 3 @79589 has 1 MA's), (4, 79562), (Start: 5 @79517 has 1 MA's), (6, 79502), (8, 79469), (11, 79406), (13, 79373), (16, 79310), (17, 79292), (18, 79283), (19, 79268), (20, 79226), (22, 79154),

Gene: PhinkBoden_106 Start: 64036, Stop: 64380, Start Num: 7

Candidate Starts for PhinkBoden_106:

(Start: 7 @64036 has 11 MA's), (9, 64105), (11, 64123), (12, 64132), (13, 64156), (14, 64177), (15, 64201), (24, 64375),

Gene: Smoothie_108 Start: 64246, Stop: 64590, Start Num: 7

Candidate Starts for Smoothie_108:

(Start: 7 @64246 has 11 MA's), (9, 64315), (11, 64333), (12, 64342), (13, 64366), (14, 64387), (15, 64411), (21, 64543), (22, 64576), (23, 64582), (24, 64585),