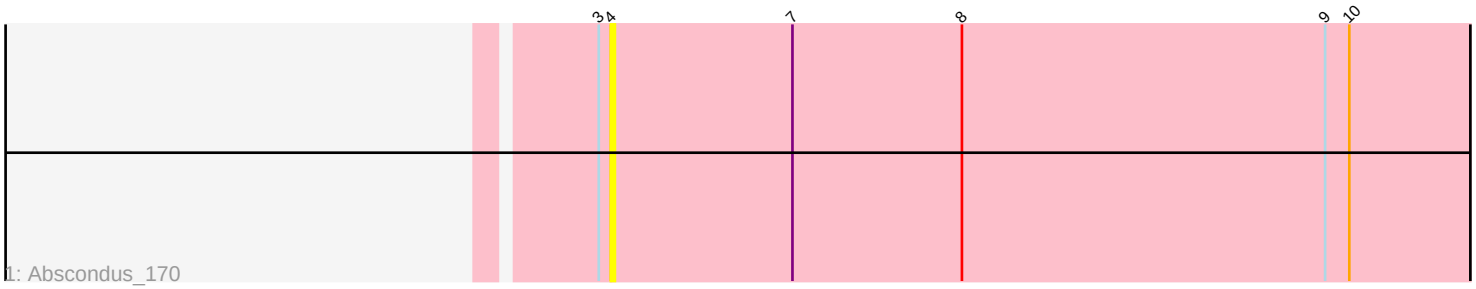
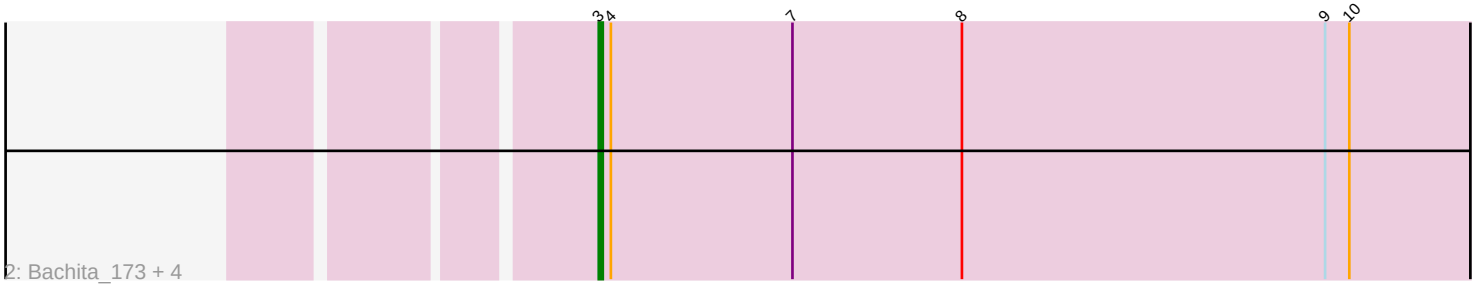
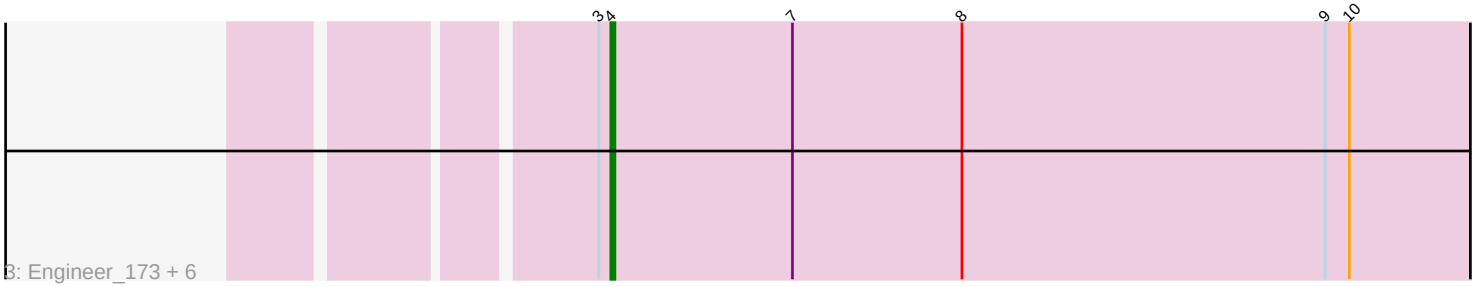
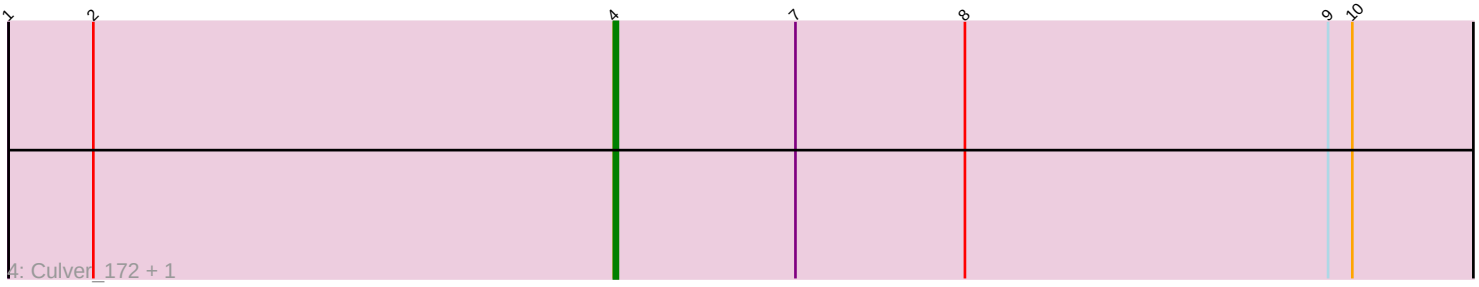
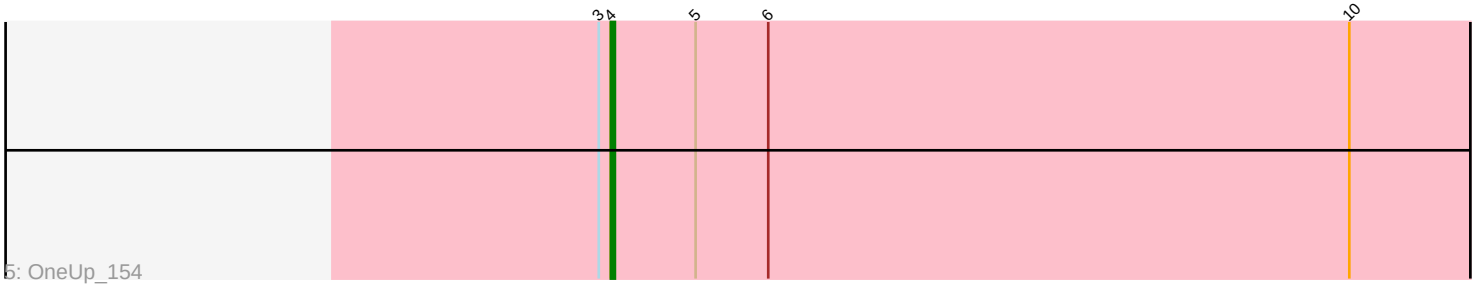
Pham 4868


3
4
7
8
9
10
1: Abscondus_170


3
4
7
8
9
10
2: Bachita_173 + 4


3
4
7
8
9
10
3: Engineer_173 + 6


1
2
4
7
8
9
10
4: Culver_172 + 1


3
4
5
6
10
5: OneUp_154

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 4868 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4868 has 16 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Abscondus_170
• Track 2 : Bachita_173, Smoothie_172, Miskis_171, Cucurbita_169, ClubL_171
• Track 3 : Engineer_173, PhinkBoden_168, Aphelion_169, Norvs_168, Lozinak_170, Toniann_170, Dusty_165
• Track 4 : Culver_172, WilliamBoone_174
• Track 5 : OneUp_154

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 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abscondus_170, Aphelion_169, Culver_172, Dusty_165, Engineer_173, Lozinak_170, Norvs_168, OneUp_154, PhinkBoden_168, Toniann_170, WilliamBoone_174,

Genes that have the "Most Annotated" start but do not call it:
• Bachita_173, ClubL_171, Cucurbita_169, Miskis_171, Smoothie_172,

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

Summary by start number:

Start 3:
• Found in 14 of 16 (87.5%) of genes in pham
• Manual Annotations of this start: 4 of 13
• Called 35.7% of time when present
• Phage (with cluster) where this start called: Bachita_173 (CQ1), ClubL_171 (CQ1), Cucurbita_169 (CQ1), Miskis_171 (CQ), Smoothie_172 (CQ1),

Start 4:
• Found in 16 of 16 (100.0%) of genes in pham

• Manual Annotations of this start: 9 of 13
• Called 68.8% of time when present
• Phage (with cluster) where this start called: Abscondus_170 (CQ), Aphelion_169 (CQ1), Culver_172 (CQ1), Dusty_165 (CQ), Engineer_173 (CQ1), Lozinak_170 (CQ1), Norvs_168 (CQ), OneUp_154 (CQ2), PhinkBoden_168 (CQ1), Toniann_170 (CQ1), WilliamBoone_174 (CQ1),

Summary by clusters:

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

Info for manual annotations of cluster CQ:
•Start number 4 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:
•Start number 3 was manually annotated 4 times for cluster CQ1.
•Start number 4 was manually annotated 7 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_170 Start: 86460, Stop: 86227, Start Num: 4
Candidate Starts for Abscondus_170:
(Start: 3 @86463 has 4 MA's), (Start: 4 @86460 has 9 MA's), (7, 86415), (8, 86373), (9, 86283), (10, 86277),

Gene: Aphelion_169 Start: 87204, Stop: 86971, Start Num: 4
Candidate Starts for Aphelion_169:
(Start: 3 @87207 has 4 MA's), (Start: 4 @87204 has 9 MA's), (7, 87159), (8, 87117), (9, 87027), (10, 87021),

Gene: Bachita_173 Start: 87283, Stop: 87047, Start Num: 3
Candidate Starts for Bachita_173:
(Start: 3 @87283 has 4 MA's), (Start: 4 @87280 has 9 MA's), (7, 87235), (8, 87193), (9, 87103), (10, 87097),

Gene: ClubL_171 Start: 86528, Stop: 86292, Start Num: 3
Candidate Starts for ClubL_171:
(Start: 3 @86528 has 4 MA's), (Start: 4 @86525 has 9 MA's), (7, 86480), (8, 86438), (9, 86348), (10, 86342),

Gene: Cucurbita_169 Start: 87589, Stop: 87353, Start Num: 3
Candidate Starts for Cucurbita_169:
(Start: 3 @87589 has 4 MA's), (Start: 4 @87586 has 9 MA's), (7, 87541), (8, 87499), (9, 87409), (10, 87403),

Gene: Culver_172 Start: 86008, Stop: 85775, Start Num: 4
Candidate Starts for Culver_172:
(1, 86158), (2, 86137), (Start: 4 @86008 has 9 MA's), (7, 85963), (8, 85921), (9, 85831), (10, 85825),

Gene: Dusty_165 Start: 85883, Stop: 85650, Start Num: 4
Candidate Starts for Dusty_165:
(Start: 3 @85886 has 4 MA's), (Start: 4 @85883 has 9 MA's), (7, 85838), (8, 85796), (9, 85706), (10, 85700),

Gene: Engineer_173 Start: 87234, Stop: 87001, Start Num: 4
Candidate Starts for Engineer_173:
(Start: 3 @87237 has 4 MA's), (Start: 4 @87234 has 9 MA's), (7, 87189), (8, 87147), (9, 87057), (10, 87051),

Gene: Lozinak_170 Start: 87129, Stop: 86896, Start Num: 4
Candidate Starts for Lozinak_170:
(Start: 3 @87132 has 4 MA's), (Start: 4 @87129 has 9 MA's), (7, 87084), (8, 87042), (9, 86952), (10, 86946),

Gene: Miskis_171 Start: 86216, Stop: 85980, Start Num: 3
Candidate Starts for Miskis_171:
(Start: 3 @86216 has 4 MA's), (Start: 4 @86213 has 9 MA's), (7, 86168), (8, 86126), (9, 86036), (10, 86030),

Gene: Norvs_168 Start: 86305, Stop: 86072, Start Num: 4
Candidate Starts for Norvs_168:
(Start: 3 @86308 has 4 MA's), (Start: 4 @86305 has 9 MA's), (7, 86260), (8, 86218), (9, 86128), (10, 86122),

Gene: OneUp_154 Start: 85852, Stop: 85616, Start Num: 4
Candidate Starts for OneUp_154:
(Start: 3 @85855 has 4 MA's), (Start: 4 @85852 has 9 MA's), (5, 85831), (6, 85813), (10, 85669),

Gene: PhinkBoden_168 Start: 86703, Stop: 86470, Start Num: 4
Candidate Starts for PhinkBoden_168:
(Start: 3 @86706 has 4 MA's), (Start: 4 @86703 has 9 MA's), (7, 86658), (8, 86616), (9, 86526), (10, 86520),

Gene: Smoothie_172 Start: 87004, Stop: 86768, Start Num: 3
Candidate Starts for Smoothie_172:
(Start: 3 @87004 has 4 MA's), (Start: 4 @87001 has 9 MA's), (7, 86956), (8, 86914), (9, 86824), (10, 86818),

Gene: Toniann_170 Start: 86446, Stop: 86213, Start Num: 4
Candidate Starts for Toniann_170:
(Start: 3 @86449 has 4 MA's), (Start: 4 @86446 has 9 MA's), (7, 86401), (8, 86359), (9, 86269), (10, 86263),

Gene: WilliamBoone_174 Start: 85704, Stop: 85471, Start Num: 4
Candidate Starts for WilliamBoone_174:
(1, 85854), (2, 85833), (Start: 4 @85704 has 9 MA's), (7, 85659), (8, 85617), (9, 85527), (10, 85521),