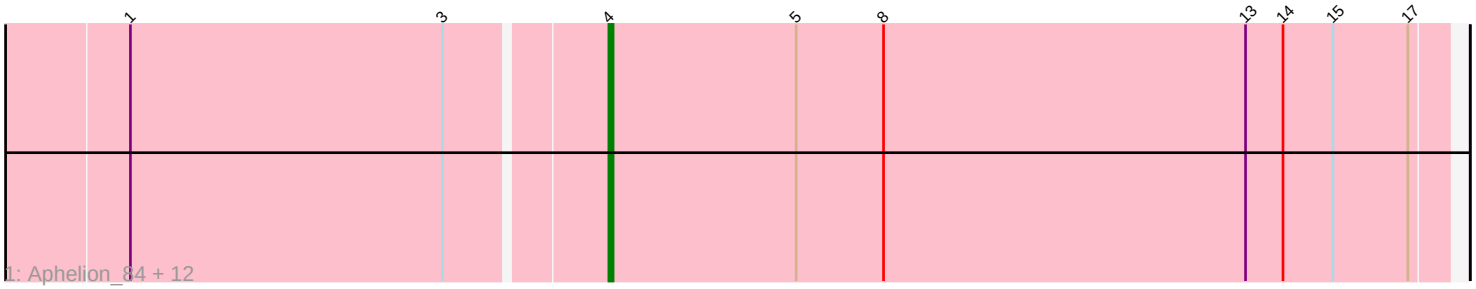
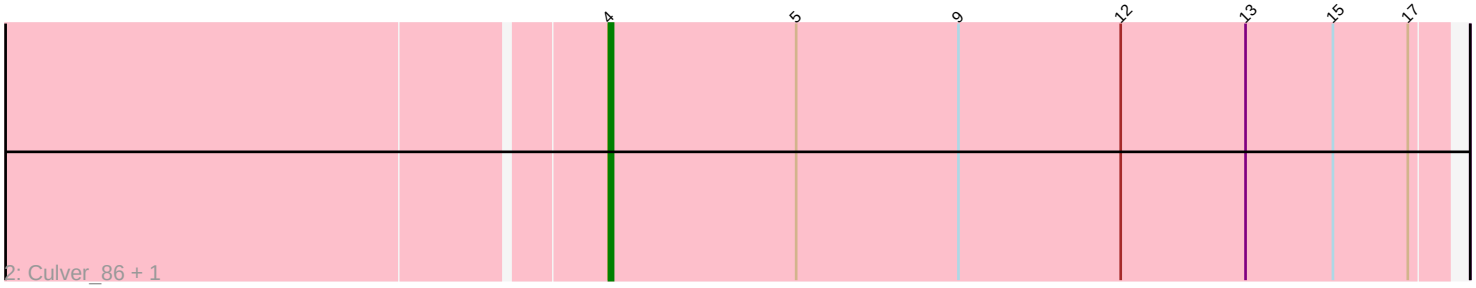
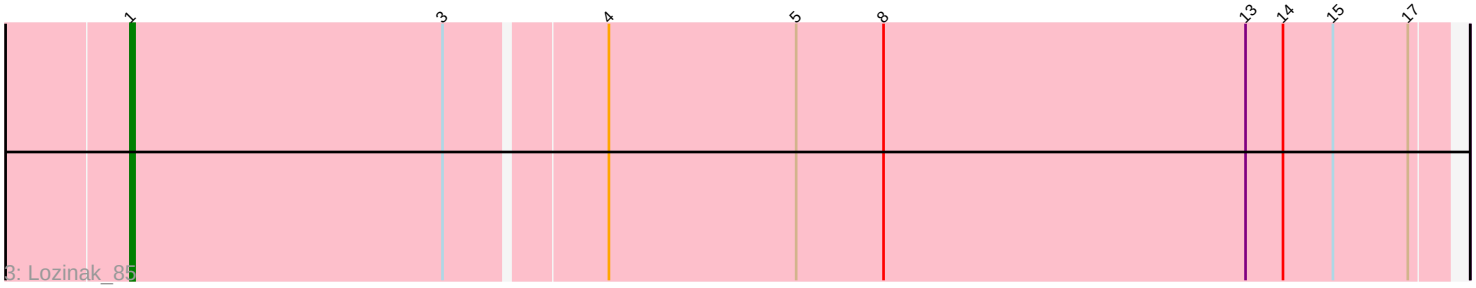
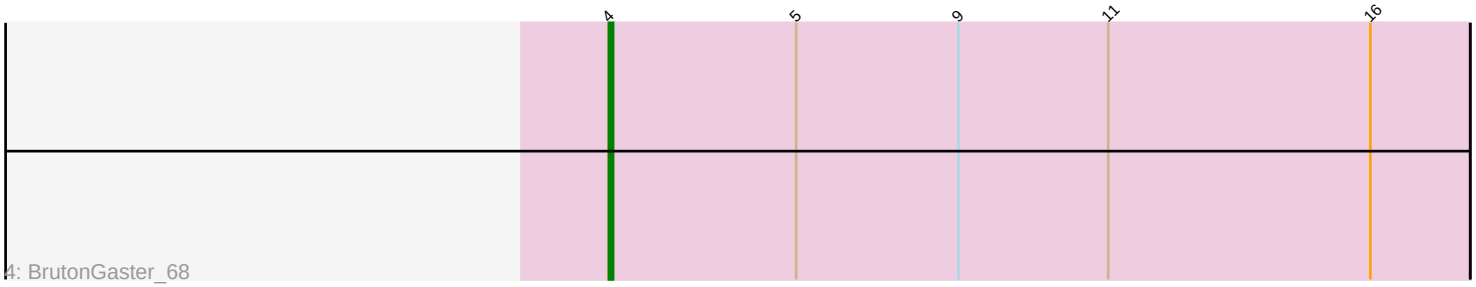
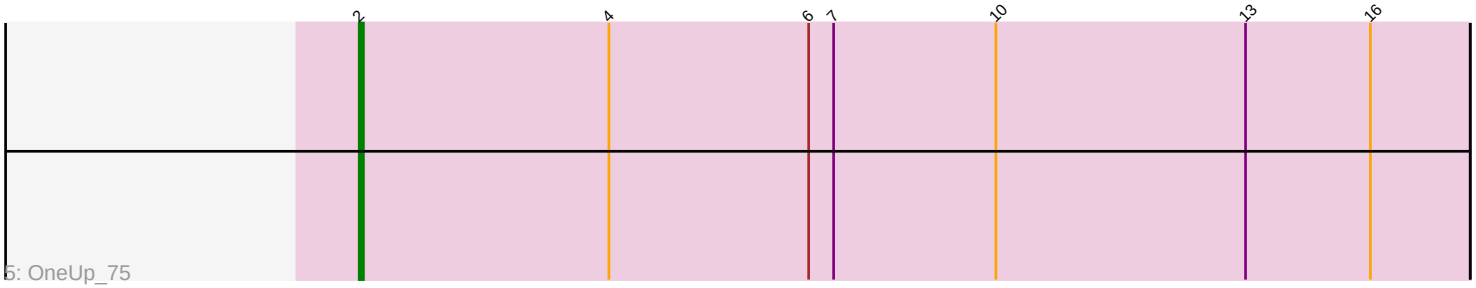
Pham 309399


1
3
4
5
8
13
14
15
17
1: Aphelion_84 + 12


4
5
9
12
13
15
17
2: Culver_86 + 1


1
3
4
5
8
13
14
15
17
3: Lozinak_85


4
5
9
11
16
4: BrutonGaster_68


2
4
6
7
10
13
16
5: OneUp_75

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 309399 Report

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

Pham number 309399 has 18 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Aphelion_84, Dusty_82, Geeche_83, Smoothie_86, Cucurbita_86, PhinkBoden_84, Abscondus_84, Bachita_86, Miskis_77, ClubL_84, Toniann_85, Norvs_85, Engineer_86
• Track 2 : Culver_86, WilliamBoone_84
• Track 3 : Lozinak_85
• Track 4 : BrutonGaster_68
• Track 5 : OneUp_75

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 15 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abscondus_84, Aphelion_84, Bachita_86, BrutonGaster_68, ClubL_84, Cucurbita_86, Culver_86, Dusty_82, Engineer_86, Geeche_83, Miskis_77, Norvs_85, PhinkBoden_84, Smoothie_86, Toniann_85, WilliamBoone_84,

Genes that have the "Most Annotated" start but do not call it:
• Lozinak_85, OneUp_75,

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

Summary by start number:

Start 1:
• Found in 14 of 18 (77.8%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 7.1% of time when present
• Phage (with cluster) where this start called: Lozinak_85 (CQ1),

Start 2:
• Found in 1 of 18 (5.6%) of genes in pham

• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OneUp_75 (CQ2),

Start 4:
• Found in 18 of 18 (100.0%) of genes in pham
• Manual Annotations of this start: 15 of 17
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Abscondus_84 (CQ1), Aphelion_84 (CQ1), Bachita_86 (CQ1), BrutonGaster_68 (CQ2), ClubL_84 (CQ1), Cucurbita_86 (CQ1), Culver_86 (CQ1), Dusty_82 (CQ1), Engineer_86 (CQ1), Geeche_83 (CQ1), Miskis_77 (CQ1), Norvs_85 (CQ1), PhinkBoden_84 (CQ1), Smoothie_86 (CQ1), Toniann_85 (CQ1), WilliamBoone_84 (CQ1),

Summary by clusters:

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

Info for manual annotations of cluster CQ1:
•Start number 1 was manually annotated 1 time for cluster CQ1.
•Start number 4 was manually annotated 14 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 2 was manually annotated 1 time for cluster CQ2.
•Start number 4 was manually annotated 1 time for cluster CQ2.

Gene Information:

Gene: Abscondus_84 Start: 52617, Stop: 52817, Start Num: 4
Candidate Starts for Abscondus_84:
(Start: 1 @52506 has 1 MA's), (3, 52581), (Start: 4 @52617 has 15 MA's), (5, 52662), (8, 52683), (13, 52770), (14, 52779), (15, 52791), (17, 52809),

Gene: Aphelion_84 Start: 53239, Stop: 53439, Start Num: 4
Candidate Starts for Aphelion_84:
(Start: 1 @53128 has 1 MA's), (3, 53203), (Start: 4 @53239 has 15 MA's), (5, 53284), (8, 53305), (13, 53392), (14, 53401), (15, 53413), (17, 53431),

Gene: Bachita_86 Start: 53664, Stop: 53864, Start Num: 4
Candidate Starts for Bachita_86:
(Start: 1 @53553 has 1 MA's), (3, 53628), (Start: 4 @53664 has 15 MA's), (5, 53709), (8, 53730), (13, 53817), (14, 53826), (15, 53838), (17, 53856),

Gene: BrutonGaster_68 Start: 48944, Stop: 49150, Start Num: 4
Candidate Starts for BrutonGaster_68:
(Start: 4 @48944 has 15 MA's), (5, 48989), (9, 49028), (11, 49064), (16, 49127),

Gene: ClubL_84 Start: 52352, Stop: 52552, Start Num: 4
Candidate Starts for ClubL_84:
(Start: 1 @52241 has 1 MA's), (3, 52316), (Start: 4 @52352 has 15 MA's), (5, 52397), (8, 52418), (13, 52505), (14, 52514), (15, 52526), (17, 52544),

Gene: Cucurbita_86 Start: 54171, Stop: 54371, Start Num: 4
Candidate Starts for Cucurbita_86:
(Start: 1 @54060 has 1 MA's), (3, 54135), (Start: 4 @54171 has 15 MA's), (5, 54216), (8, 54237), (13, 54324), (14, 54333), (15, 54345), (17, 54363),

Gene: Culver_86 Start: 52274, Stop: 52474, Start Num: 4
Candidate Starts for Culver_86:
(Start: 4 @52274 has 15 MA's), (5, 52319), (9, 52358), (12, 52397), (13, 52427), (15, 52448), (17, 52466),

Gene: Dusty_82 Start: 51864, Stop: 52064, Start Num: 4
Candidate Starts for Dusty_82:
(Start: 1 @51753 has 1 MA's), (3, 51828), (Start: 4 @51864 has 15 MA's), (5, 51909), (8, 51930), (13, 52017), (14, 52026), (15, 52038), (17, 52056),

Gene: Engineer_86 Start: 53637, Stop: 53837, Start Num: 4
Candidate Starts for Engineer_86:
(Start: 1 @53526 has 1 MA's), (3, 53601), (Start: 4 @53637 has 15 MA's), (5, 53682), (8, 53703), (13, 53790), (14, 53799), (15, 53811), (17, 53829),

Gene: Geeche_83 Start: 52701, Stop: 52901, Start Num: 4
Candidate Starts for Geeche_83:
(Start: 1 @52590 has 1 MA's), (3, 52665), (Start: 4 @52701 has 15 MA's), (5, 52746), (8, 52767), (13, 52854), (14, 52863), (15, 52875), (17, 52893),

Gene: Lozinak_85 Start: 53364, Stop: 53675, Start Num: 1
Candidate Starts for Lozinak_85:
(Start: 1 @53364 has 1 MA's), (3, 53439), (Start: 4 @53475 has 15 MA's), (5, 53520), (8, 53541), (13, 53628), (14, 53637), (15, 53649), (17, 53667),

Gene: Miskis_77 Start: 51380, Stop: 51580, Start Num: 4
Candidate Starts for Miskis_77:
(Start: 1 @51269 has 1 MA's), (3, 51344), (Start: 4 @51380 has 15 MA's), (5, 51425), (8, 51446), (13, 51533), (14, 51542), (15, 51554), (17, 51572),

Gene: Norvs_85 Start: 52884, Stop: 53084, Start Num: 4
Candidate Starts for Norvs_85:
(Start: 1 @52773 has 1 MA's), (3, 52848), (Start: 4 @52884 has 15 MA's), (5, 52929), (8, 52950), (13, 53037), (14, 53046), (15, 53058), (17, 53076),

Gene: OneUp_75 Start: 50712, Stop: 50978, Start Num: 2
Candidate Starts for OneUp_75:
(Start: 2 @50712 has 1 MA's), (Start: 4 @50772 has 15 MA's), (6, 50820), (7, 50826), (10, 50865), (13, 50925), (16, 50955),

Gene: PhinkBoden_84 Start: 53265, Stop: 53465, Start Num: 4
Candidate Starts for PhinkBoden_84:
(Start: 1 @53154 has 1 MA's), (3, 53229), (Start: 4 @53265 has 15 MA's), (5, 53310), (8, 53331), (13, 53418), (14, 53427), (15, 53439), (17, 53457),

Gene: Smoothie_86 Start: 53475, Stop: 53675, Start Num: 4
Candidate Starts for Smoothie_86:

(Start: 1 @53364 has 1 MA's), (3, 53439), (Start: 4 @53475 has 15 MA's), (5, 53520), (8, 53541), (13, 53628), (14, 53637), (15, 53649), (17, 53667),

Gene: Toniann_85 Start: 52827, Stop: 53027, Start Num: 4
Candidate Starts for Toniann_85:
(Start: 1 @52716 has 1 MA's), (3, 52791), (Start: 4 @52827 has 15 MA's), (5, 52872), (8, 52893), (13, 52980), (14, 52989), (15, 53001), (17, 53019),

Gene: WilliamBoone_84 Start: 51577, Stop: 51777, Start Num: 4
Candidate Starts for WilliamBoone_84:
(Start: 4 @51577 has 15 MA's), (5, 51622), (9, 51661), (12, 51700), (13, 51730), (15, 51751), (17, 51769),