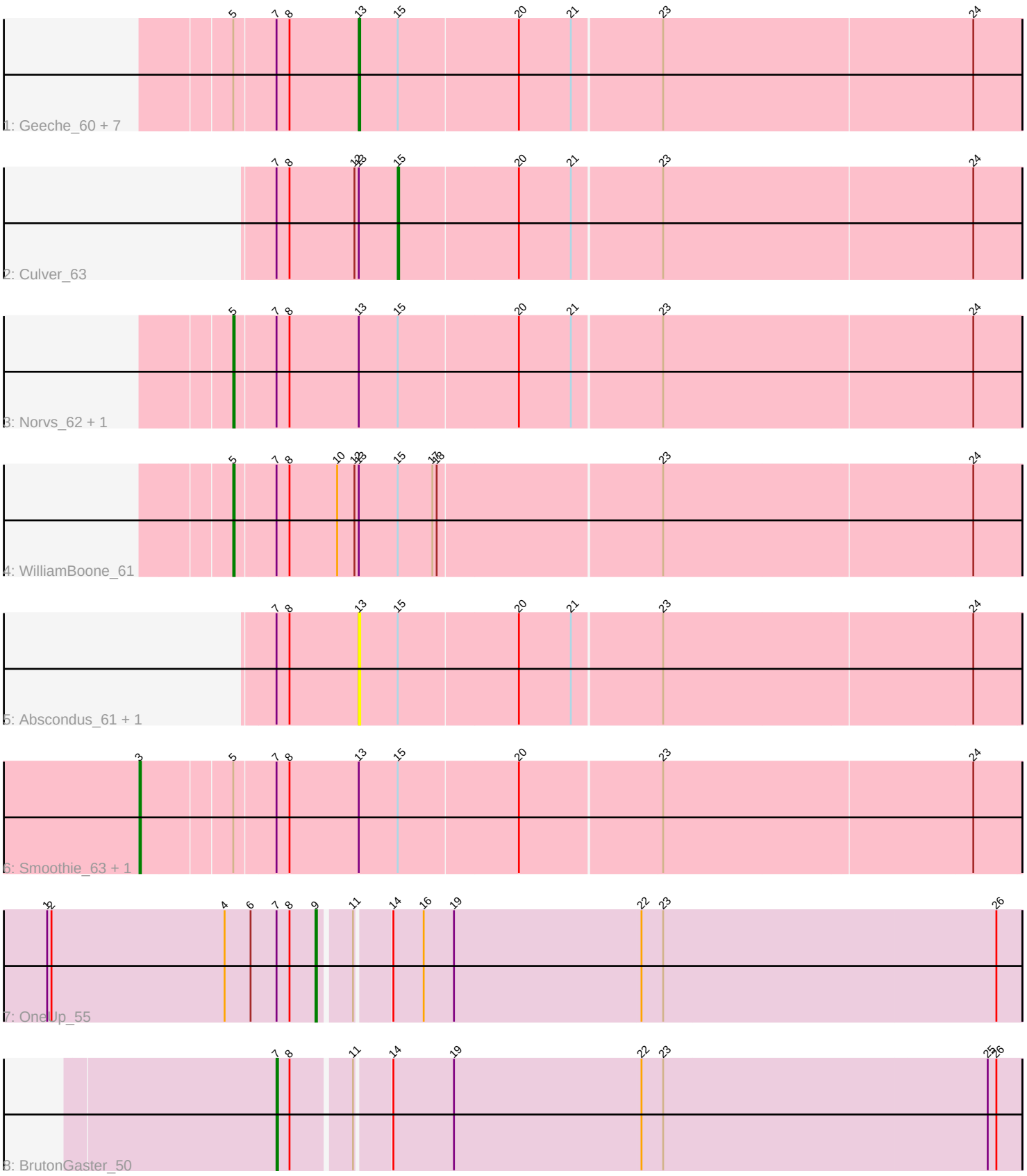
Pham 194379


1: Geeche_60 + 7
2: Culver_63
3: Norvs_62 + 1
4: WilliamBoone_61
5: Abscondus_61 + 1
6: Smoothie_63 + 1
7: OneUp_55
8: BrutonGaster_50

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 194379 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194379 has 18 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Geeche_60, Toniann_62, Engineer_63, PhinkBoden_61, Bachita_63, Miskis_63, ClubL_62, Cucurbita_63
• Track 2 : Culver_63
• Track 3 : Norvs_62, Aphelion_61
• Track 4 : WilliamBoone_61
• Track 5 : Abscondus_61, Dusty_60
• Track 6 : Smoothie_63, Lozinak_62
• Track 7 : OneUp_55
• Track 8 : BrutonGaster_50

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

The start number called the most often in the published annotations is 13, it was called in 6 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abscondus_61, Bachita_63, ClubL_62, Cucurbita_63, Dusty_60, Engineer_63, Geeche_60, Miskis_63, PhinkBoden_61, Toniann_62,

Genes that have the "Most Annotated" start but do not call it:
• Aphelion_61, Culver_63, Lozinak_62, Norvs_62, Smoothie_63, WilliamBoone_61,

Genes that do not have the "Most Annotated" start:
• BrutonGaster_50, OneUp_55,

Summary by start number:

Start 3:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lozinak_62 (CQ1), Smoothie_63 (CQ1),

Start 5:

• Found in 13 of 18 (72.2%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 23.1% of time when present
• Phage (with cluster) where this start called: Aphelion_61 (CQ1), Norvs_62 (CQ1), WilliamBoone_61 (CQ1),

Start 7:
• Found in 18 of 18 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 5.6% of time when present
• Phage (with cluster) where this start called: BrutonGaster_50 (CQ2),

Start 9:
• Found in 1 of 18 (5.6%) 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: OneUp_55 (CQ2),

Start 13:
• Found in 16 of 18 (88.9%) of genes in pham
• Manual Annotations of this start: 6 of 14
• Called 62.5% of time when present
• Phage (with cluster) where this start called: Abscondus_61 (CQ1), Bachita_63 (CQ1), ClubL_62 (CQ1), Cucurbita_63 (CQ1), Dusty_60 (CQ1), Engineer_63 (CQ1), Geeche_60 (CQ1), Miskis_63 (CQ1), PhinkBoden_61 (CQ1), Toniann_62 (CQ1),

Start 15:
• Found in 16 of 18 (88.9%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 6.2% of time when present
• Phage (with cluster) where this start called: Culver_63 (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 2 times for cluster CQ1.
•Start number 5 was manually annotated 3 times for cluster CQ1.
•Start number 13 was manually annotated 6 times for cluster CQ1.
•Start number 15 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 7 was manually annotated 1 time for cluster CQ2.
•Start number 9 was manually annotated 1 time for cluster CQ2.

Gene Information:

Gene: Abscondus_61 Start: 41423, Stop: 40977, Start Num: 13
Candidate Starts for Abscondus_61:

(Start: 7 @41480 has 1 MA's), (8, 41471), (Start: 13 @41423 has 6 MA's), (Start: 15 @41396 has 1 MA's), (20, 41315), (21, 41279), (23, 41219), (24, 41009),

Gene: Aphelion_61 Start: 41776, Stop: 41246, Start Num: 5
Candidate Starts for Aphelion_61:
(Start: 5 @41776 has 3 MA's), (Start: 7 @41749 has 1 MA's), (8, 41740), (Start: 13 @41692 has 6 MA's), (Start: 15 @41665 has 1 MA's), (20, 41584), (21, 41548), (23, 41488), (24, 41278),

Gene: Bachita_63 Start: 42125, Stop: 41679, Start Num: 13
Candidate Starts for Bachita_63:
(Start: 5 @42209 has 3 MA's), (Start: 7 @42182 has 1 MA's), (8, 42173), (Start: 13 @42125 has 6 MA's), (Start: 15 @42098 has 1 MA's), (20, 42017), (21, 41981), (23, 41921), (24, 41711),

Gene: BrutonGaster_50 Start: 39526, Stop: 39026, Start Num: 7
Candidate Starts for BrutonGaster_50:
(Start: 7 @39526 has 1 MA's), (8, 39517), (11, 39478), (14, 39457), (19, 39415), (22, 39286), (23, 39271), (25, 39049), (26, 39043),

Gene: ClubL_62 Start: 41615, Stop: 41169, Start Num: 13
Candidate Starts for ClubL_62:
(Start: 5 @41699 has 3 MA's), (Start: 7 @41672 has 1 MA's), (8, 41663), (Start: 13 @41615 has 6 MA's), (Start: 15 @41588 has 1 MA's), (20, 41507), (21, 41471), (23, 41411), (24, 41201),

Gene: Cucurbita_63 Start: 42984, Stop: 42538, Start Num: 13
Candidate Starts for Cucurbita_63:
(Start: 5 @43068 has 3 MA's), (Start: 7 @43041 has 1 MA's), (8, 43032), (Start: 13 @42984 has 6 MA's), (Start: 15 @42957 has 1 MA's), (20, 42876), (21, 42840), (23, 42780), (24, 42570),

Gene: Culver_63 Start: 41268, Stop: 40849, Start Num: 15
Candidate Starts for Culver_63:
(Start: 7 @41352 has 1 MA's), (8, 41343), (12, 41298), (Start: 13 @41295 has 6 MA's), (Start: 15 @41268 has 1 MA's), (20, 41187), (21, 41151), (23, 41091), (24, 40881),

Gene: Dusty_60 Start: 41430, Stop: 40984, Start Num: 13
Candidate Starts for Dusty_60:
(Start: 7 @41487 has 1 MA's), (8, 41478), (Start: 13 @41430 has 6 MA's), (Start: 15 @41403 has 1 MA's), (20, 41322), (21, 41286), (23, 41226), (24, 41016),

Gene: Engineer_63 Start: 42098, Stop: 41652, Start Num: 13
Candidate Starts for Engineer_63:
(Start: 5 @42182 has 3 MA's), (Start: 7 @42155 has 1 MA's), (8, 42146), (Start: 13 @42098 has 6 MA's), (Start: 15 @42071 has 1 MA's), (20, 41990), (21, 41954), (23, 41894), (24, 41684),

Gene: Geeche_60 Start: 41514, Stop: 41068, Start Num: 13
Candidate Starts for Geeche_60:
(Start: 5 @41598 has 3 MA's), (Start: 7 @41571 has 1 MA's), (8, 41562), (Start: 13 @41514 has 6 MA's), (Start: 15 @41487 has 1 MA's), (20, 41406), (21, 41370), (23, 41310), (24, 41100),

Gene: Lozinak_62 Start: 42068, Stop: 41478, Start Num: 3
Candidate Starts for Lozinak_62:
(Start: 3 @42068 has 2 MA's), (Start: 5 @42008 has 3 MA's), (Start: 7 @41981 has 1 MA's), (8, 41972), (Start: 13 @41924 has 6 MA's), (Start: 15 @41897 has 1 MA's), (20, 41816), (23, 41720), (24, 41510),

Gene: Miskis_63 Start: 41458, Stop: 41012, Start Num: 13
Candidate Starts for Miskis_63:
(Start: 5 @41542 has 3 MA's), (Start: 7 @41515 has 1 MA's), (8, 41506), (Start: 13 @41458 has 6 MA's), (Start: 15 @41431 has 1 MA's), (20, 41350), (21, 41314), (23, 41254), (24, 41044),

Gene: Norvs_62 Start: 41781, Stop: 41251, Start Num: 5
Candidate Starts for Norvs_62:
(Start: 5 @41781 has 3 MA's), (Start: 7 @41754 has 1 MA's), (8, 41745), (Start: 13 @41697 has 6 MA's), (Start: 15 @41670 has 1 MA's), (20, 41589), (21, 41553), (23, 41493), (24, 41283),

Gene: OneUp_55 Start: 41207, Stop: 40734, Start Num: 9
Candidate Starts for OneUp_55:
(1, 41393), (2, 41390), (4, 41270), (6, 41252), (Start: 7 @41234 has 1 MA's), (8, 41225), (Start: 9 @41207 has 1 MA's), (11, 41186), (14, 41165), (16, 41144), (19, 41123), (22, 40994), (23, 40979), (26, 40751),

Gene: PhinkBoden_61 Start: 42078, Stop: 41632, Start Num: 13
Candidate Starts for PhinkBoden_61:
(Start: 5 @42162 has 3 MA's), (Start: 7 @42135 has 1 MA's), (8, 42126), (Start: 13 @42078 has 6 MA's), (Start: 15 @42051 has 1 MA's), (20, 41970), (21, 41934), (23, 41874), (24, 41664),

Gene: Smoothie_63 Start: 42068, Stop: 41478, Start Num: 3
Candidate Starts for Smoothie_63:
(Start: 3 @42068 has 2 MA's), (Start: 5 @42008 has 3 MA's), (Start: 7 @41981 has 1 MA's), (8, 41972), (Start: 13 @41924 has 6 MA's), (Start: 15 @41897 has 1 MA's), (20, 41816), (23, 41720), (24, 41510),

Gene: Toniann_62 Start: 41640, Stop: 41194, Start Num: 13
Candidate Starts for Toniann_62:
(Start: 5 @41724 has 3 MA's), (Start: 7 @41697 has 1 MA's), (8, 41688), (Start: 13 @41640 has 6 MA's), (Start: 15 @41613 has 1 MA's), (20, 41532), (21, 41496), (23, 41436), (24, 41226),

Gene: WilliamBoone_61 Start: 40676, Stop: 40146, Start Num: 5
Candidate Starts for WilliamBoone_61:
(Start: 5 @40676 has 3 MA's), (Start: 7 @40649 has 1 MA's), (8, 40640), (10, 40607), (12, 40595), (Start: 13 @40592 has 6 MA's), (Start: 15 @40565 has 1 MA's), (17, 40541), (18, 40538), (23, 40388), (24, 40178),