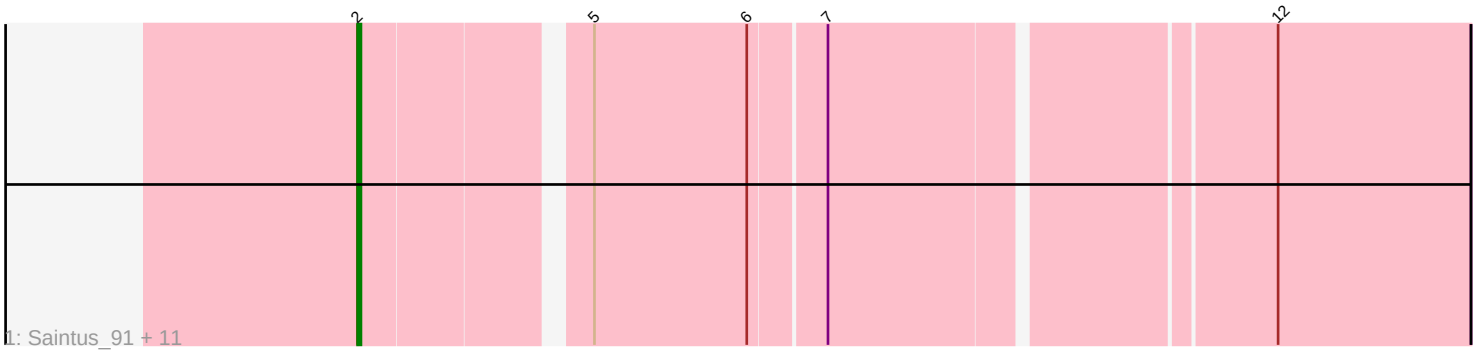
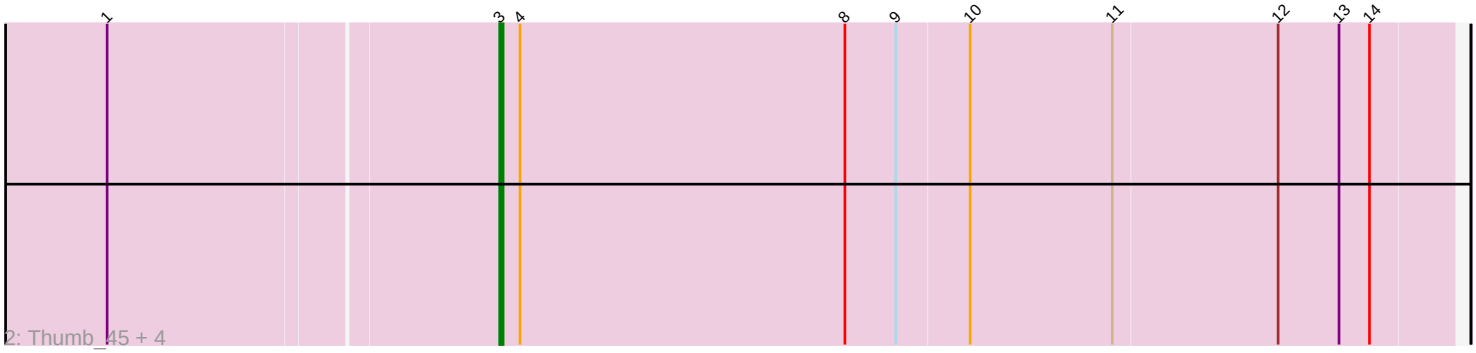
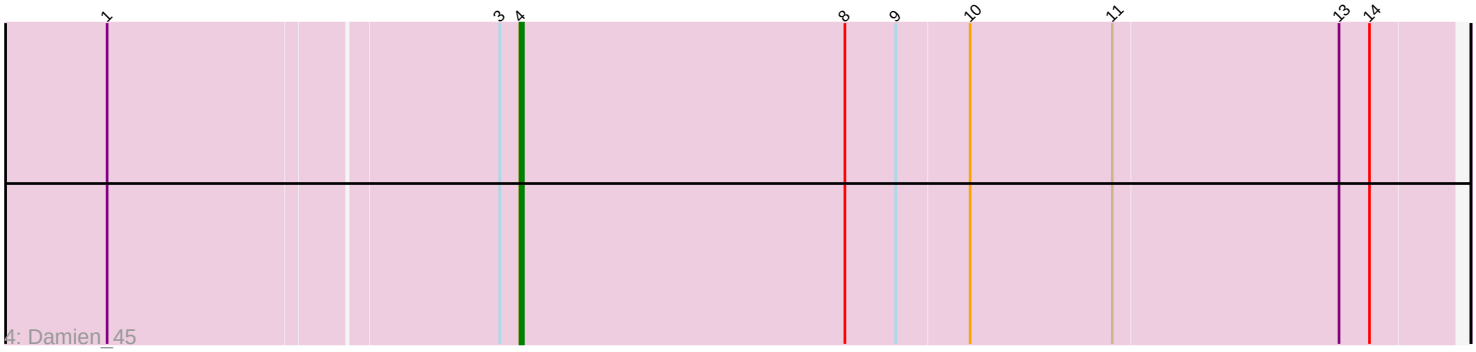
Pham 348013


2
5
6
7
12
1: Saintus_91 + 11


1
3
4
8
9
10
11
12
13
14
2: Thumb_45 + 4


1
3
4
8
9
10
11
12
14
3: BobtimousPrime_46 + 3


1
3
4
8
9
10
11
13
14
4: Damien_45

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 348013 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348013 has 22 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Saintus_91, Danforth_97, Smeadley_96, Caitlin_95, Phillis_93, Stephig9_97, Roary_98, Groundhog_93, Expelliarmus_93, Astro_95, NearlyHeadless_97, Dixon_95
• Track 2 : Thumb_45, Megatron06_46, Oaker_44, Nish23_47, Cborch11_46
• Track 3 : BobtimousPrime_46, Beckerton_44, Konstantine_48, Phreeze_43
• Track 4 : Damien_45

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

The start number called the most often in the published annotations is 2, it was called in 12 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Astro_95, Caitlin_95, Danforth_97, Dixon_95, Expelliarmus_93, Groundhog_93, NearlyHeadless_97, Phillis_93, Roary_98, Saintus_91, Smeadley_96, Stephig9_97,

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

Genes that do not have the "Most Annotated" start:
• Beckerton_44, BobtimousPrime_46, Cborch11_46, Damien_45, Konstantine_48, Megatron06_46, Nish23_47, Oaker_44, Phreeze_43, Thumb_45,

Summary by start number:

Start 2:
• Found in 12 of 22 (54.5%) of genes in pham
• Manual Annotations of this start: 12 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Astro_95 (A8), Caitlin_95 (A8), Danforth_97 (A8), Dixon_95 (A8), Expelliarmus_93 (A8), Groundhog_93 (A8), NearlyHeadless_97 (A8), Phillis_93 (A8), Roary_98 (A8), Saintus_91 (A8), Smeadley_96 (A8), Stephig9_97 (A8),

Start 3:
• Found in 10 of 22 (45.5%) of genes in pham
• Manual Annotations of this start: 8 of 21
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Beckerton_44 (H1), BobtimousPrime_46 (H1), Cborch11_46 (H1), Konstantine_48 (H1), Megatron06_46 (H1), Nish23_47 (H1), Oaker_44 (H1), Phreeze_43 (H1), Thumb_45 (H1),

Start 4:
• Found in 10 of 22 (45.5%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Damien_45 (H1),

Summary by clusters:

There are 2 clusters represented in this pham: A8, H1,

Info for manual annotations of cluster A8:
•Start number 2 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster H1:
•Start number 3 was manually annotated 8 times for cluster H1.
•Start number 4 was manually annotated 1 time for cluster H1.

Gene Information:

Gene: Astro_95 Start: 49957, Stop: 49652, Start Num: 2
Candidate Starts for Astro_95:
(Start: 2 @49957 has 12 MA's), (5, 49897), (6, 49852), (7, 49831), (12, 49708),

Gene: Beckerton_44 Start: 39490, Stop: 39768, Start Num: 3
Candidate Starts for Beckerton_44:
(1, 39379), (Start: 3 @39490 has 8 MA's), (Start: 4 @39496 has 1 MA's), (8, 39592), (9, 39607), (10, 39628), (11, 39670), (12, 39718), (14, 39745),

Gene: BobtimousPrime_46 Start: 39452, Stop: 39730, Start Num: 3
Candidate Starts for BobtimousPrime_46:
(1, 39341), (Start: 3 @39452 has 8 MA's), (Start: 4 @39458 has 1 MA's), (8, 39554), (9, 39569), (10, 39590), (11, 39632), (12, 39680), (14, 39707),

Gene: Caitlin_95 Start: 49649, Stop: 49344, Start Num: 2
Candidate Starts for Caitlin_95:
(Start: 2 @49649 has 12 MA's), (5, 49589), (6, 49544), (7, 49523), (12, 49400),

Gene: Cborch11_46 Start: 39003, Stop: 39281, Start Num: 3
Candidate Starts for Cborch11_46:
(1, 38892), (Start: 3 @39003 has 8 MA's), (Start: 4 @39009 has 1 MA's), (8, 39105), (9, 39120), (10, 39141), (11, 39183), (12, 39231), (13, 39249), (14, 39258),

Gene: Damien_45 Start: 38971, Stop: 39243, Start Num: 4

Candidate Starts for Damien_45:
(1, 38854), (Start: 3 @38965 has 8 MA's), (Start: 4 @38971 has 1 MA's), (8, 39067), (9, 39082), (10, 39103), (11, 39145), (13, 39211), (14, 39220),

Gene: Danforth_97 Start: 50111, Stop: 49806, Start Num: 2
Candidate Starts for Danforth_97:
(Start: 2 @50111 has 12 MA's), (5, 50051), (6, 50006), (7, 49985), (12, 49862),

Gene: Dixon_95 Start: 49516, Stop: 49211, Start Num: 2
Candidate Starts for Dixon_95:
(Start: 2 @49516 has 12 MA's), (5, 49456), (6, 49411), (7, 49390), (12, 49267),

Gene: Expelliarmus_93 Start: 49730, Stop: 49425, Start Num: 2
Candidate Starts for Expelliarmus_93:
(Start: 2 @49730 has 12 MA's), (5, 49670), (6, 49625), (7, 49604), (12, 49481),

Gene: Groundhog_93 Start: 49786, Stop: 49481, Start Num: 2
Candidate Starts for Groundhog_93:
(Start: 2 @49786 has 12 MA's), (5, 49726), (6, 49681), (7, 49660), (12, 49537),

Gene: Konstantine_48 Start: 39800, Stop: 40078, Start Num: 3
Candidate Starts for Konstantine_48:
(1, 39689), (Start: 3 @39800 has 8 MA's), (Start: 4 @39806 has 1 MA's), (8, 39902), (9, 39917), (10, 39938), (11, 39980), (12, 40028), (14, 40055),

Gene: Megatron06_46 Start: 39541, Stop: 39819, Start Num: 3
Candidate Starts for Megatron06_46:
(1, 39430), (Start: 3 @39541 has 8 MA's), (Start: 4 @39547 has 1 MA's), (8, 39643), (9, 39658), (10, 39679), (11, 39721), (12, 39769), (13, 39787), (14, 39796),

Gene: NearlyHeadless_97 Start: 49848, Stop: 49543, Start Num: 2
Candidate Starts for NearlyHeadless_97:
(Start: 2 @49848 has 12 MA's), (5, 49788), (6, 49743), (7, 49722), (12, 49599),

Gene: Nish23_47 Start: 39003, Stop: 39281, Start Num: 3
Candidate Starts for Nish23_47:
(1, 38892), (Start: 3 @39003 has 8 MA's), (Start: 4 @39009 has 1 MA's), (8, 39105), (9, 39120), (10, 39141), (11, 39183), (12, 39231), (13, 39249), (14, 39258),

Gene: Oaker_44 Start: 39256, Stop: 39534, Start Num: 3
Candidate Starts for Oaker_44:
(1, 39145), (Start: 3 @39256 has 8 MA's), (Start: 4 @39262 has 1 MA's), (8, 39358), (9, 39373), (10, 39394), (11, 39436), (12, 39484), (13, 39502), (14, 39511),

Gene: Phillis_93 Start: 48861, Stop: 48556, Start Num: 2
Candidate Starts for Phillis_93:
(Start: 2 @48861 has 12 MA's), (5, 48801), (6, 48756), (7, 48735), (12, 48612),

Gene: Phreeze_43 Start: 38566, Stop: 38844, Start Num: 3
Candidate Starts for Phreeze_43:
(1, 38455), (Start: 3 @38566 has 8 MA's), (Start: 4 @38572 has 1 MA's), (8, 38668), (9, 38683), (10, 38704), (11, 38746), (12, 38794), (14, 38821),

Gene: Roary_98 Start: 49985, Stop: 49680, Start Num: 2
Candidate Starts for Roary_98:
(Start: 2 @49985 has 12 MA's), (5, 49925), (6, 49880), (7, 49859), (12, 49736),

Gene: Saintus_91 Start: 46713, Stop: 46408, Start Num: 2
Candidate Starts for Saintus_91:
(Start: 2 @46713 has 12 MA's), (5, 46653), (6, 46608), (7, 46587), (12, 46464),

Gene: Smeadley_96 Start: 49852, Stop: 49547, Start Num: 2
Candidate Starts for Smeadley_96:
(Start: 2 @49852 has 12 MA's), (5, 49792), (6, 49747), (7, 49726), (12, 49603),

Gene: Stephig9_97 Start: 50203, Stop: 49898, Start Num: 2
Candidate Starts for Stephig9_97:
(Start: 2 @50203 has 12 MA's), (5, 50143), (6, 50098), (7, 50077), (12, 49954),

Gene: Thumb_45 Start: 38998, Stop: 39276, Start Num: 3
Candidate Starts for Thumb_45:
(1, 38887), (Start: 3 @38998 has 8 MA's), (Start: 4 @39004 has 1 MA's), (8, 39100), (9, 39115), (10, 39136), (11, 39178), (12, 39226), (13, 39244), (14, 39253),