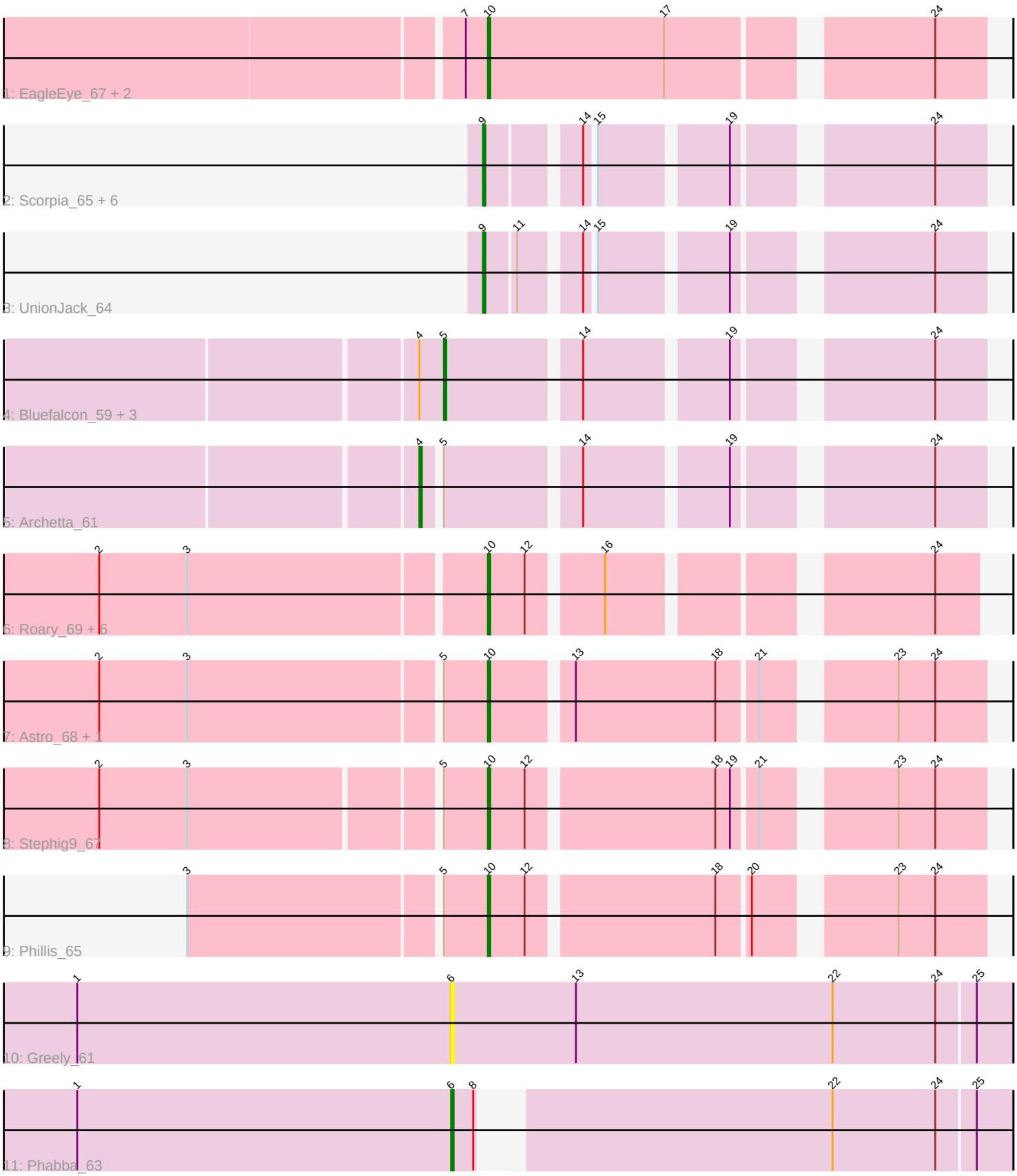
Pham 175010


7
10
17
24
1: EagleEye_67 + 2
9
14
15
19
24
2: Scorpia_65 + 6
9
11
14
15
19
24
3: UnionJack_64
4
5
14
19
24
4: Bluefalcon_59 + 3
4
5
14
19
24
5: Archetta_61
2
3
10
12
16
24
6: Roary_69 + 6
2
3
5
10
13
18
21
23
24
7: Astro_68 + 1
2
3
5
10
12
18
19
21
23
24
8: Stephig9_67
3
5
10
12
18
20
23
24
9: Phillis_65
1
6
13
22
24
25
10: Greely_61
1
6
8
22
24
25
11: Phabba_63

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 175010 Report

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

Pham number 175010 has 29 members, 1 are drafts.

Phages represented in each track:
• Track 1 : EagleEye_67, Lucyedi_66, PainterBoy_66
• Track 2 : Scorpia_65, Jabiru_64, Airmid_63, ElTiger69_65, PetterN_68, Naca_63, Chadwick_65
• Track 3 : UnionJack_64
• Track 4 : Bluefalcon_59, Ghoulboy_63, SydNat_63, Zolita_62
• Track 5 : Archetta_61
• Track 6 : Roary_69, Dixon_67, Expelliarmus_65, Danforth_68, Smeadley_68, Saintus_63, NearlyHeadless_68
• Track 7 : Astro_68, Groundhog_67
• Track 8 : Stephig9_67
• Track 9 : Phillis_65
• Track 10 : Greely_61
• Track 11 : Phabba_63

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

The start number called the most often in the published annotations is 10, it was called in 14 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Astro_68, Danforth_68, Dixon_67, EagleEye_67, Expelliarmus_65, Groundhog_67, Lucyedi_66, NearlyHeadless_68, PainterBoy_66, Phillis_65, Roary_69, Saintus_63, Smeadley_68, Stephig9_67,

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

Genes that do not have the "Most Annotated" start:
• Airmid_63, Archetta_61, Bluefalcon_59, Chadwick_65, ElTiger69_65, Ghoulboy_63, Greely_61, Jabiru_64, Naca_63, PetterN_68, Phabba_63, Scorpia_65, SydNat_63, UnionJack_64, Zolita_62,

Summary by start number:

Start 4:
• Found in 5 of 29 (17.2%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Archetta_61 (A5),

Start 5:
• Found in 9 of 29 (31.0%) of genes in pham
• Manual Annotations of this start: 4 of 28
• Called 44.4% of time when present
• Phage (with cluster) where this start called: Bluefalcon_59 (A5), Ghoulboy_63 (A5), SydNat_63 (A5), Zolita_62 (A5),

Start 6:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Greely_61 (C2), Phabba_63 (C2),

Start 9:
• Found in 8 of 29 (27.6%) of genes in pham
• Manual Annotations of this start: 8 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Airmid_63 (A5), Chadwick_65 (A5), ElTiger69_65 (A5), Jabiru_64 (A5), Naca_63 (A5), PetterN_68 (A5), Scorpia_65 (A5), UnionJack_64 (A5),

Start 10:
• Found in 14 of 29 (48.3%) of genes in pham
• Manual Annotations of this start: 14 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Astro_68 (A8), Danforth_68 (A8), Dixon_67 (A8), EagleEye_67 (A16), Expelliarmus_65 (A8), Groundhog_67 (A8), Lucyedi_66 (A16), NearlyHeadless_68 (A8), PainterBoy_66 (A16), Phillis_65 (A8), Roary_69 (A8), Saintus_63 (A8), Smeadley_68 (A8), Stephig9_67 (A8),

Summary by clusters:

There are 4 clusters represented in this pham: A8, A16, A5, C2,

Info for manual annotations of cluster A16:
•Start number 10 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A5:
•Start number 4 was manually annotated 1 time for cluster A5.
•Start number 5 was manually annotated 4 times for cluster A5.
•Start number 9 was manually annotated 8 times for cluster A5.

Info for manual annotations of cluster A8:
•Start number 10 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster C2:
•Start number 6 was manually annotated 1 time for cluster C2.

Gene Information:

Gene: Airmid_63 Start: 40288, Stop: 40115, Start Num: 9
Candidate Starts for Airmid_63:
(Start: 9 @40288 has 8 MA's), (14, 40255), (15, 40252), (19, 40204), (24, 40135),

Gene: Archetta_61 Start: 40527, Stop: 40327, Start Num: 4
Candidate Starts for Archetta_61:
(Start: 4 @40527 has 1 MA's), (Start: 5 @40521 has 4 MA's), (14, 40470), (19, 40416), (24, 40347),

Gene: Astro_68 Start: 40147, Stop: 39965, Start Num: 10
Candidate Starts for Astro_68:
(2, 40300), (3, 40264), (Start: 5 @40165 has 4 MA's), (Start: 10 @40147 has 14 MA's), (13, 40117), (18, 40060), (21, 40045), (23, 40000), (24, 39985),

Gene: Bluefalcon_59 Start: 40541, Stop: 40347, Start Num: 5
Candidate Starts for Bluefalcon_59:
(Start: 4 @40547 has 1 MA's), (Start: 5 @40541 has 4 MA's), (14, 40490), (19, 40436), (24, 40367),

Gene: Chadwick_65 Start: 40264, Stop: 40091, Start Num: 9
Candidate Starts for Chadwick_65:
(Start: 9 @40264 has 8 MA's), (14, 40231), (15, 40228), (19, 40180), (24, 40111),

Gene: Danforth_68 Start: 40195, Stop: 40022, Start Num: 10
Candidate Starts for Danforth_68:
(2, 40348), (3, 40312), (Start: 10 @40195 has 14 MA's), (12, 40180), (16, 40153), (24, 40039),

Gene: Dixon_67 Start: 39715, Stop: 39542, Start Num: 10
Candidate Starts for Dixon_67:
(2, 39868), (3, 39832), (Start: 10 @39715 has 14 MA's), (12, 39700), (16, 39673), (24, 39559),

Gene: EagleEye_67 Start: 40181, Stop: 39993, Start Num: 10
Candidate Starts for EagleEye_67:
(7, 40190), (Start: 10 @40181 has 14 MA's), (17, 40109), (24, 40013),

Gene: ElTiger69_65 Start: 40512, Stop: 40339, Start Num: 9
Candidate Starts for ElTiger69_65:
(Start: 9 @40512 has 8 MA's), (14, 40479), (15, 40476), (19, 40428), (24, 40359),

Gene: Expelliarmus_65 Start: 39919, Stop: 39746, Start Num: 10
Candidate Starts for Expelliarmus_65:
(2, 40072), (3, 40036), (Start: 10 @39919 has 14 MA's), (12, 39904), (16, 39877), (24, 39763),

Gene: Ghoulboy_63 Start: 40795, Stop: 40601, Start Num: 5
Candidate Starts for Ghoulboy_63:
(Start: 4 @40801 has 1 MA's), (Start: 5 @40795 has 4 MA's), (14, 40744), (19, 40690), (24, 40621),

Gene: Greely_61 Start: 22781, Stop: 23008, Start Num: 6
Candidate Starts for Greely_61:
(1, 22628), (Start: 6 @22781 has 1 MA's), (13, 22832), (22, 22937), (24, 22979), (25, 22994),

Gene: Groundhog_67 Start: 40125, Stop: 39943, Start Num: 10
Candidate Starts for Groundhog_67:
(2, 40278), (3, 40242), (Start: 5 @40143 has 4 MA's), (Start: 10 @40125 has 14 MA's), (13, 40095), (18, 40038), (21, 40023), (23, 39978), (24, 39963),

Gene: Jabiru_64 Start: 40431, Stop: 40258, Start Num: 9
Candidate Starts for Jabiru_64:
(Start: 9 @40431 has 8 MA's), (14, 40398), (15, 40395), (19, 40347), (24, 40278),

Gene: Lucyedi_66 Start: 40377, Stop: 40189, Start Num: 10
Candidate Starts for Lucyedi_66:
(7, 40386), (Start: 10 @40377 has 14 MA's), (17, 40305), (24, 40209),

Gene: Naca_63 Start: 40816, Stop: 40643, Start Num: 9
Candidate Starts for Naca_63:
(Start: 9 @40816 has 8 MA's), (14, 40783), (15, 40780), (19, 40732), (24, 40663),

Gene: NearlyHeadless_68 Start: 39961, Stop: 39788, Start Num: 10
Candidate Starts for NearlyHeadless_68:
(2, 40114), (3, 40078), (Start: 10 @39961 has 14 MA's), (12, 39946), (16, 39919), (24, 39805),

Gene: PainterBoy_66 Start: 40336, Stop: 40148, Start Num: 10
Candidate Starts for PainterBoy_66:
(7, 40345), (Start: 10 @40336 has 14 MA's), (17, 40264), (24, 40168),

Gene: PetterN_68 Start: 40562, Stop: 40389, Start Num: 9
Candidate Starts for PetterN_68:
(Start: 9 @40562 has 8 MA's), (14, 40529), (15, 40526), (19, 40478), (24, 40409),

Gene: Phabba_63 Start: 22834, Stop: 23040, Start Num: 6
Candidate Starts for Phabba_63:
(1, 22681), (Start: 6 @22834 has 1 MA's), (8, 22843), (22, 22969), (24, 23011), (25, 23026),

Gene: Phillis_65 Start: 39415, Stop: 39233, Start Num: 10
Candidate Starts for Phillis_65:
(3, 39532), (Start: 5 @39433 has 4 MA's), (Start: 10 @39415 has 14 MA's), (12, 39400), (18, 39328), (20, 39316), (23, 39268), (24, 39253),

Gene: Roary_69 Start: 40180, Stop: 40007, Start Num: 10
Candidate Starts for Roary_69:
(2, 40333), (3, 40297), (Start: 10 @40180 has 14 MA's), (12, 40165), (16, 40138), (24, 40024),

Gene: Saintus_63 Start: 36845, Stop: 36672, Start Num: 10
Candidate Starts for Saintus_63:
(2, 36998), (3, 36962), (Start: 10 @36845 has 14 MA's), (12, 36830), (16, 36803), (24, 36689),

Gene: Scorpia_65 Start: 40621, Stop: 40448, Start Num: 9
Candidate Starts for Scorpia_65:
(Start: 9 @40621 has 8 MA's), (14, 40588), (15, 40585), (19, 40537), (24, 40468),

Gene: Smeadley_68 Start: 40041, Stop: 39868, Start Num: 10
Candidate Starts for Smeadley_68:

(2, 40194), (3, 40158), (Start: 10 @40041 has 14 MA's), (12, 40026), (16, 39999), (24, 39885),

Gene: Stephig9_67 Start: 39981, Stop: 39799, Start Num: 10
Candidate Starts for Stephig9_67:
(2, 40131), (3, 40095), (Start: 5 @39999 has 4 MA's), (Start: 10 @39981 has 14 MA's), (12, 39966), (18, 39894), (19, 39888), (21, 39879), (23, 39834), (24, 39819),

Gene: SydNat_63 Start: 40804, Stop: 40610, Start Num: 5
Candidate Starts for SydNat_63:
(Start: 4 @40810 has 1 MA's), (Start: 5 @40804 has 4 MA's), (14, 40753), (19, 40699), (24, 40630),

Gene: UnionJack_64 Start: 40103, Stop: 39930, Start Num: 9
Candidate Starts for UnionJack_64:
(Start: 9 @40103 has 8 MA's), (11, 40091), (14, 40070), (15, 40067), (19, 40019), (24, 39950),

Gene: Zolita_62 Start: 40808, Stop: 40614, Start Num: 5
Candidate Starts for Zolita_62:
(Start: 4 @40814 has 1 MA's), (Start: 5 @40808 has 4 MA's), (14, 40757), (19, 40703), (24, 40634),