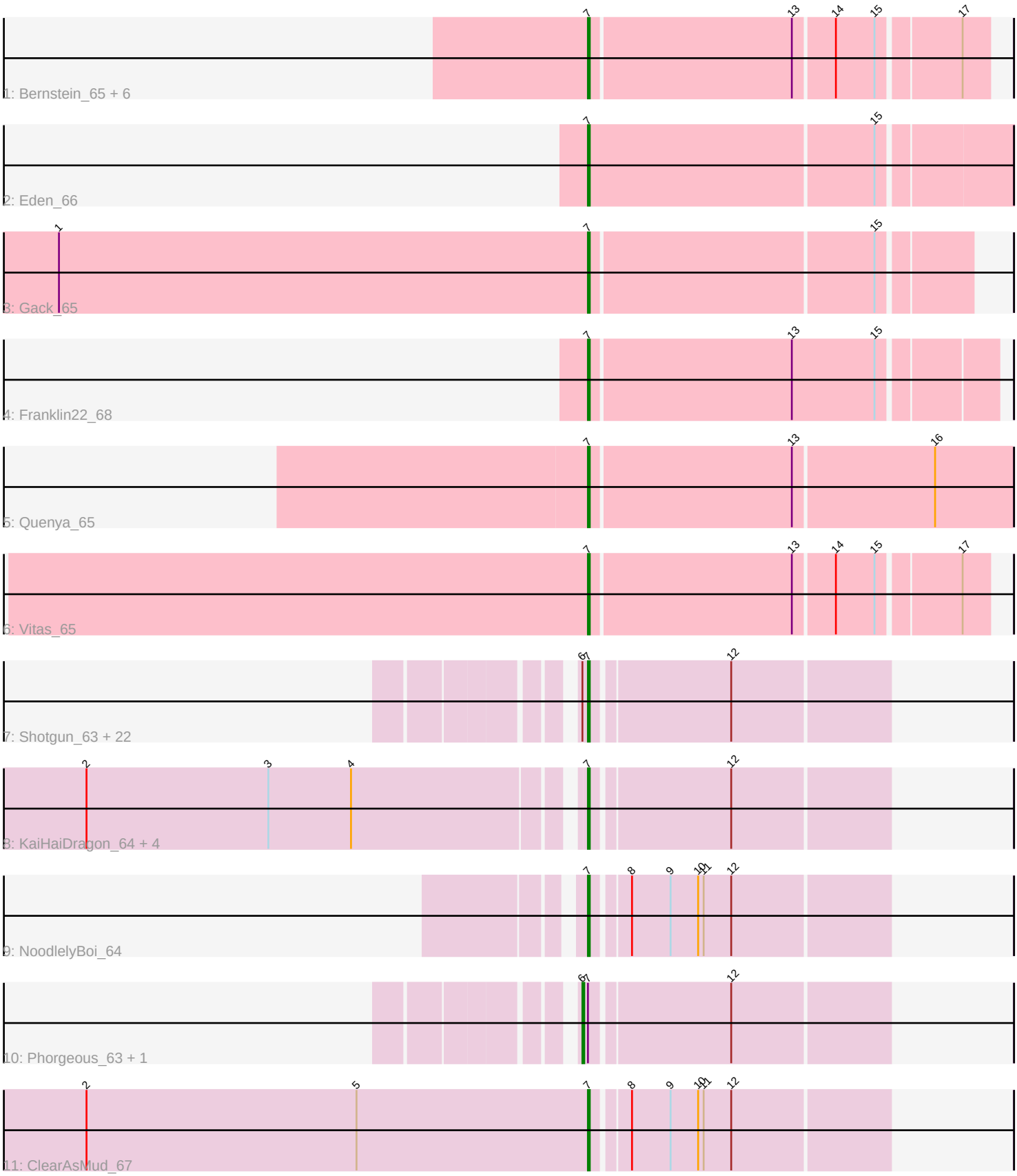
Pham 171582


7
13
14
15
17
1: Bernstein_65 + 6
7
15
2: Eden_66
1
7
15
3: Gack_65
7
13
15
4: Franklin22_68
7
13
16
5: Quenya_65
7
13
14
15
17
6: Vitas_65
6
7
12
7: Shotgun_63 + 22
2
3
4
7
12
8: KaiHaiDragon_64 + 4
7
8
9
10
11
12
9: NoodlelyBoi_64
6
7
12
10: Phorgeous_63 + 1
2
5
7
8
9
10
11
12
11: ClearAsMud_67

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 171582 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171582 has 44 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Bernstein_65, Clayda5_67, Coltrane_65, Rollins_65, Skylord_65, Armstrong_65, Brahms_65
• Track 2 : Eden_66
• Track 3 : Gack_65
• Track 4 : Franklin22_68
• Track 5 : Quenya_65
• Track 6 : Vitas_65
• Track 7 : Shotgun_63, Hermeonysus_63, Jollipop_64, Busephilis_62, Savannah_62, Jefe_63, Kowalski_62, Ganandorf_62, Quhwah_67, Selwyn23_64, Scumberland_65, Onika_62, Piperis_64, Yeti_63, Pulchra_65, LittleFortune_65, Ramiel05_62, BrazzalePHS_62, Cranjis_64, Phrancesco_63, PiperSansNom_64, Antares_63, Honeyfin_64
• Track 8 : KaiHaiDragon_64, Paschalis_63, PierreOrion_63, Crisis_64, EarickHC_64
• Track 9 : NoodlelyBoi_64
• Track 10 : Phorgeous_63, CrazyRich_62
• Track 11 : ClearAsMud_67

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

The start number called the most often in the published annotations is 7, it was called in 40 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Antares_63, Armstrong_65, Bernstein_65, Brahms_65, BrazzalePHS_62, Busephilis_62, Clayda5_67, ClearAsMud_67, Coltrane_65, Cranjis_64, Crisis_64, EarickHC_64, Eden_66, Franklin22_68, Gack_65, Ganandorf_62, Hermeonysus_63, Honeyfin_64, Jefe_63, Jollipop_64, KaiHaiDragon_64, Kowalski_62, LittleFortune_65, NoodlelyBoi_64, Onika_62, Paschalis_63, Phrancesco_63, PierreOrion_63, PiperSansNom_64, Piperis_64, Pulchra_65, Quenya_65, Quhwah_67, Ramiel05_62, Rollins_65, Savannah_62, Scumberland_65, Selwyn23_64, Shotgun_63, Skylord_65, Vitas_65, Yeti_63,

Genes that have the "Most Annotated" start but do not call it:
• CrazyRich_62, Phorgeous_63,

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

Summary by start number:

Start 6:
• Found in 25 of 44 (56.8%) of genes in pham
• Manual Annotations of this start: 2 of 42
• Called 8.0% of time when present
• Phage (with cluster) where this start called: CrazyRich_62 (EC), Phorgeous_63 (EC),

Start 7:
• Found in 44 of 44 (100.0%) of genes in pham
• Manual Annotations of this start: 40 of 42
• Called 95.5% of time when present
• Phage (with cluster) where this start called: Antares_63 (EC), Armstrong_65 (EB), Bernstein_65 (EB), Brahms_65 (EB), BrazzalePHS_62 (EC), Busephilis_62 (EC), Clayda5_67 (EB), ClearAsMud_67 (EC), Coltrane_65 (EB), Cranjis_64 (EC), Crisis_64 (EC), EarickHC_64 (EC), Eden_66 (EB), Franklin22_68 (EB), Gack_65 (EB), Ganandorf_62 (EC), Hermeonysus_63 (EC), Honeyfin_64 (EC), Jefe_63 (EC), Jollipop_64 (EC), KaiHaiDragon_64 (EC), Kowalski_62 (EC), LittleFortune_65 (EC), NoodlelyBoi_64 (EC), Onika_62 (EC), Paschalis_63 (EC), Phrancesco_63 (EC), PierreOrion_63 (EC), PiperSansNom_64 (EC), Piperis_64 (EC), Pulchra_65 (EC), Quenya_65 (EB), Quhwah_67 (EC), Ramiel05_62 (EC), Rollins_65 (EB), Savannah_62 (EC), Scumberland_65 (EC), Selwyn23_64 (EC), Shotgun_63 (EC), Skylord_65 (EB), Vitas_65 (EB), Yeti_63 (EC),

Summary by clusters:

There are 2 clusters represented in this pham: EC, EB,

Info for manual annotations of cluster EB:
•Start number 7 was manually annotated 12 times for cluster EB.

Info for manual annotations of cluster EC:
•Start number 6 was manually annotated 2 times for cluster EC.
•Start number 7 was manually annotated 28 times for cluster EC.

Gene Information:

Gene: Antares_63 Start: 40647, Stop: 40802, Start Num: 7
Candidate Starts for Antares_63:
(Start: 6 @40644 has 2 MA's), (Start: 7 @40647 has 40 MA's), (12, 40719),

Gene: Armstrong_65 Start: 38306, Stop: 38512, Start Num: 7
Candidate Starts for Armstrong_65:
(Start: 7 @38306 has 40 MA's), (13, 38414), (14, 38435), (15, 38456), (17, 38498),

Gene: Bernstein_65 Start: 38304, Stop: 38510, Start Num: 7

Candidate Starts for Bernstein_65:
(Start: 7 @38304 has 40 MA's), (13, 38412), (14, 38433), (15, 38454), (17, 38496),

Gene: Brahms_65 Start: 38206, Stop: 38412, Start Num: 7
Candidate Starts for Brahms_65:
(Start: 7 @38206 has 40 MA's), (13, 38314), (14, 38335), (15, 38356), (17, 38398),

Gene: BrazzalePHS_62 Start: 40409, Stop: 40564, Start Num: 7
Candidate Starts for BrazzalePHS_62:
(Start: 6 @40406 has 2 MA's), (Start: 7 @40409 has 40 MA's), (12, 40481),

Gene: Busephilis_62 Start: 40354, Stop: 40509, Start Num: 7
Candidate Starts for Busephilis_62:
(Start: 6 @40351 has 2 MA's), (Start: 7 @40354 has 40 MA's), (12, 40426),

Gene: Clayda5_67 Start: 38272, Stop: 38478, Start Num: 7
Candidate Starts for Clayda5_67:
(Start: 7 @38272 has 40 MA's), (13, 38380), (14, 38401), (15, 38422), (17, 38464),

Gene: ClearAsMud_67 Start: 40937, Stop: 41092, Start Num: 7
Candidate Starts for ClearAsMud_67:
(2, 40664), (5, 40811), (Start: 7 @40937 has 40 MA's), (8, 40955), (9, 40976), (10, 40991), (11, 40994), (12, 41009),

Gene: Coltrane_65 Start: 38206, Stop: 38412, Start Num: 7
Candidate Starts for Coltrane_65:
(Start: 7 @38206 has 40 MA's), (13, 38314), (14, 38335), (15, 38356), (17, 38398),

Gene: Cranjis_64 Start: 40602, Stop: 40757, Start Num: 7
Candidate Starts for Cranjis_64:
(Start: 6 @40599 has 2 MA's), (Start: 7 @40602 has 40 MA's), (12, 40674),

Gene: CrazyRich_62 Start: 40408, Stop: 40566, Start Num: 6
Candidate Starts for CrazyRich_62:
(Start: 6 @40408 has 2 MA's), (Start: 7 @40411 has 40 MA's), (12, 40483),

Gene: Crisis_64 Start: 40417, Stop: 40572, Start Num: 7
Candidate Starts for Crisis_64:
(2, 40159), (3, 40258), (4, 40303), (Start: 7 @40417 has 40 MA's), (12, 40489),

Gene: EarickHC_64 Start: 40339, Stop: 40494, Start Num: 7
Candidate Starts for EarickHC_64:
(2, 40081), (3, 40180), (4, 40225), (Start: 7 @40339 has 40 MA's), (12, 40411),

Gene: Eden_66 Start: 39118, Stop: 39339, Start Num: 7
Candidate Starts for Eden_66:
(Start: 7 @39118 has 40 MA's), (15, 39271),

Gene: Franklin22_68 Start: 38842, Stop: 39054, Start Num: 7
Candidate Starts for Franklin22_68:
(Start: 7 @38842 has 40 MA's), (13, 38950), (15, 38995),

Gene: Gack_65 Start: 38747, Stop: 38944, Start Num: 7

Candidate Starts for Gack_65:
(1, 38459), (Start: 7 @38747 has 40 MA's), (15, 38897),

Gene: Ganandorf_62 Start: 40435, Stop: 40590, Start Num: 7
Candidate Starts for Ganandorf_62:
(Start: 6 @40432 has 2 MA's), (Start: 7 @40435 has 40 MA's), (12, 40507),

Gene: Hermeonysus_63 Start: 40330, Stop: 40485, Start Num: 7
Candidate Starts for Hermeonysus_63:
(Start: 6 @40327 has 2 MA's), (Start: 7 @40330 has 40 MA's), (12, 40402),

Gene: Honeyfin_64 Start: 40590, Stop: 40745, Start Num: 7
Candidate Starts for Honeyfin_64:
(Start: 6 @40587 has 2 MA's), (Start: 7 @40590 has 40 MA's), (12, 40662),

Gene: Jefe_63 Start: 40388, Stop: 40543, Start Num: 7
Candidate Starts for Jefe_63:
(Start: 6 @40385 has 2 MA's), (Start: 7 @40388 has 40 MA's), (12, 40460),

Gene: Jollipop_64 Start: 40770, Stop: 40925, Start Num: 7
Candidate Starts for Jollipop_64:
(Start: 6 @40767 has 2 MA's), (Start: 7 @40770 has 40 MA's), (12, 40842),

Gene: KaiHaiDragon_64 Start: 40339, Stop: 40494, Start Num: 7
Candidate Starts for KaiHaiDragon_64:
(2, 40081), (3, 40180), (4, 40225), (Start: 7 @40339 has 40 MA's), (12, 40411),

Gene: Kowalski_62 Start: 40404, Stop: 40559, Start Num: 7
Candidate Starts for Kowalski_62:
(Start: 6 @40401 has 2 MA's), (Start: 7 @40404 has 40 MA's), (12, 40476),

Gene: LittleFortune_65 Start: 40695, Stop: 40850, Start Num: 7
Candidate Starts for LittleFortune_65:
(Start: 6 @40692 has 2 MA's), (Start: 7 @40695 has 40 MA's), (12, 40767),

Gene: NoodlelyBoi_64 Start: 41186, Stop: 41341, Start Num: 7
Candidate Starts for NoodlelyBoi_64:
(Start: 7 @41186 has 40 MA's), (8, 41204), (9, 41225), (10, 41240), (11, 41243), (12, 41258),

Gene: Onika_62 Start: 40413, Stop: 40568, Start Num: 7
Candidate Starts for Onika_62:
(Start: 6 @40410 has 2 MA's), (Start: 7 @40413 has 40 MA's), (12, 40485),

Gene: Paschalis_63 Start: 40435, Stop: 40590, Start Num: 7
Candidate Starts for Paschalis_63:
(2, 40177), (3, 40276), (4, 40321), (Start: 7 @40435 has 40 MA's), (12, 40507),

Gene: Phorgeous_63 Start: 40218, Stop: 40376, Start Num: 6
Candidate Starts for Phorgeous_63:
(Start: 6 @40218 has 2 MA's), (Start: 7 @40221 has 40 MA's), (12, 40293),

Gene: Phrancesco_63 Start: 40544, Stop: 40699, Start Num: 7
Candidate Starts for Phrancesco_63:

(Start: 6 @40541 has 2 MA's), (Start: 7 @40544 has 40 MA's), (12, 40616),

Gene: PierreOrion_63 Start: 40644, Stop: 40799, Start Num: 7
Candidate Starts for PierreOrion_63:
(2, 40386), (3, 40485), (4, 40530), (Start: 7 @40644 has 40 MA's), (12, 40716),

Gene: PiperSansNom_64 Start: 40726, Stop: 40881, Start Num: 7
Candidate Starts for PiperSansNom_64:
(Start: 6 @40723 has 2 MA's), (Start: 7 @40726 has 40 MA's), (12, 40798),

Gene: Piperis_64 Start: 40346, Stop: 40501, Start Num: 7
Candidate Starts for Piperis_64:
(Start: 6 @40343 has 2 MA's), (Start: 7 @40346 has 40 MA's), (12, 40418),

Gene: Pulchra_65 Start: 40742, Stop: 40897, Start Num: 7
Candidate Starts for Pulchra_65:
(Start: 6 @40739 has 2 MA's), (Start: 7 @40742 has 40 MA's), (12, 40814),

Gene: Quenya_65 Start: 40431, Stop: 40655, Start Num: 7
Candidate Starts for Quenya_65:
(Start: 7 @40431 has 40 MA's), (13, 40539), (16, 40614),

Gene: Quhwah_67 Start: 41034, Stop: 41189, Start Num: 7
Candidate Starts for Quhwah_67:
(Start: 6 @41031 has 2 MA's), (Start: 7 @41034 has 40 MA's), (12, 41106),

Gene: Ramiel05_62 Start: 40404, Stop: 40559, Start Num: 7
Candidate Starts for Ramiel05_62:
(Start: 6 @40401 has 2 MA's), (Start: 7 @40404 has 40 MA's), (12, 40476),

Gene: Rollins_65 Start: 38304, Stop: 38510, Start Num: 7
Candidate Starts for Rollins_65:
(Start: 7 @38304 has 40 MA's), (13, 38412), (14, 38433), (15, 38454), (17, 38496),

Gene: Savannah_62 Start: 40464, Stop: 40619, Start Num: 7
Candidate Starts for Savannah_62:
(Start: 6 @40461 has 2 MA's), (Start: 7 @40464 has 40 MA's), (12, 40536),

Gene: Scumberland_65 Start: 40659, Stop: 40814, Start Num: 7
Candidate Starts for Scumberland_65:
(Start: 6 @40656 has 2 MA's), (Start: 7 @40659 has 40 MA's), (12, 40731),

Gene: Selwyn23_64 Start: 40576, Stop: 40731, Start Num: 7
Candidate Starts for Selwyn23_64:
(Start: 6 @40573 has 2 MA's), (Start: 7 @40576 has 40 MA's), (12, 40648),

Gene: Shotgun_63 Start: 40340, Stop: 40495, Start Num: 7
Candidate Starts for Shotgun_63:
(Start: 6 @40337 has 2 MA's), (Start: 7 @40340 has 40 MA's), (12, 40412),

Gene: Skylord_65 Start: 38221, Stop: 38427, Start Num: 7
Candidate Starts for Skylord_65:
(Start: 7 @38221 has 40 MA's), (13, 38329), (14, 38350), (15, 38371), (17, 38413),

Gene: Vitas_65 Start: 38277, Stop: 38483, Start Num: 7
Candidate Starts for Vitas_65:
(Start: 7 @38277 has 40 MA's), (13, 38385), (14, 38406), (15, 38427), (17, 38469),

Gene: Yeti_63 Start: 40378, Stop: 40533, Start Num: 7
Candidate Starts for Yeti_63:
(Start: 6 @40375 has 2 MA's), (Start: 7 @40378 has 40 MA's), (12, 40450),