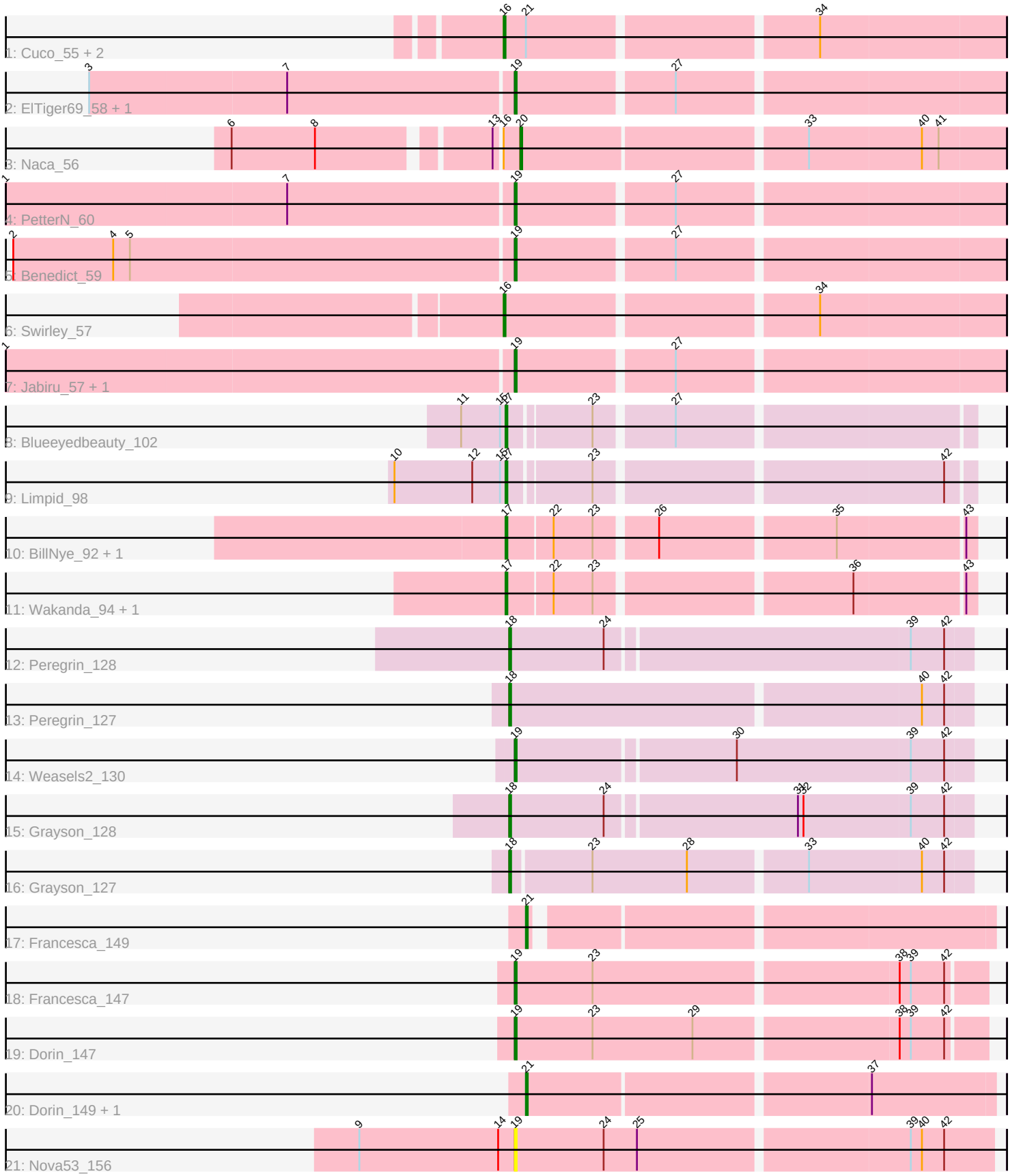
Pham 203207


1: Cuco_55 + 2
2: ElTiger69_58 + 1
3: Naca_56
4: PetterN_60
5: Benedict_59
6: Swirley_57
7: Jabiru_57 + 1
8: Blueeyedbeauty_102
9: Limpid_98
10: BillNye_92 + 1
11: Wakanda_94 + 1
12: Peregrin_128
13: Peregrin_127
14: Weasels2_130
15: Grayson_128
16: Grayson_127
17: Francesca_149
18: Francesca_147
19: Dorin_147
20: Dorin_149 + 1
21: Nova53_156

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 203207 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203207 has 28 members, 2 are drafts.

Phages represented in each track:
- Track 1 : Cuco_55, Coog_54, Midas2_54
- Track 2 : ElTiger69_58, Airmid_56
- Track 3 : Naca_56
- Track 4 : PetterN_60
- Track 5 : Benedict_59
- Track 6 : Swirley_57
- Track 7 : Jabiru_57, Scorpia_60
- Track 8 : Blueeyedbeauty_102
- Track 9 : Limpid_98
- Track 10 : BillNye_92, Circinus_93
- Track 11 : Wakanda_94, Muntaha_96
- Track 12 : Peregrin_128
- Track 13 : Peregrin_127
- Track 14 : Weasels2_130
- Track 15 : Grayson_128
- Track 16 : Grayson_127
- Track 17 : Francesca_149
- Track 18 : Francesca_147
- Track 19 : Dorin_147
- Track 20 : Dorin_149, Nova53_158
- Track 21 : Nova53_156

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

The start number called the most often in the published annotations is 19, it was called in 9 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Airmid_56, Benedict_59, Dorin_147, ElTiger69_58, Francesca_147, Jabiru_57, Nova53_156, PetterN_60, Scorpia_60, Weasels2_130,

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

Genes that do not have the "Most Annotated" start:
• BillNye_92, Blueeyedbeauty_102, Circinus_93, Coog_54, Cuco_55, Dorin_149, Francesca_149, Grayson_127, Grayson_128, Limpid_98, Midas2_54, Muntaha_96, Naca_56, Nova53_158, Peregrin_127, Peregrin_128, Swirley_57, Wakanda_94,

Summary by start number:

Start 16:
• Found in 5 of 28 (17.9%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Coog_54 (A5), Cuco_55 (A5), Midas2_54 (A5), Swirley_57 (A5),

Start 17:
• Found in 6 of 28 (21.4%) of genes in pham
• Manual Annotations of this start: 6 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_92 (BK2), Blueeyedbeauty_102 (BK1), Circinus_93 (BK2), Limpid_98 (BK1), Muntaha_96 (BK2), Wakanda_94 (BK2),

Start 18:
• Found in 4 of 28 (14.3%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Grayson_127 (CB), Grayson_128 (CB), Peregrin_127 (CB), Peregrin_128 (CB),

Start 19:
• Found in 10 of 28 (35.7%) of genes in pham
• Manual Annotations of this start: 9 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Airmid_56 (A5), Benedict_59 (A5), Dorin_147 (CG), ElTiger69_58 (A5), Francesca_147 (CG), Jabiru_57 (A5), Nova53_156 (CG), PetterN_60 (A5), Scorpia_60 (A5), Weasels2_130 (CB),

Start 20:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Naca_56 (A5),

Start 21:
• Found in 6 of 28 (21.4%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Dorin_149 (CG), Francesca_149 (CG), Nova53_158 (CG),

Summary by clusters:

There are 5 clusters represented in this pham: CG, CB, A5, BK1, BK2,

Info for manual annotations of cluster A5:
•Start number 16 was manually annotated 4 times for cluster A5.
•Start number 19 was manually annotated 6 times for cluster A5.
•Start number 20 was manually annotated 1 time for cluster A5.

Info for manual annotations of cluster BK1:
•Start number 17 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 17 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster CB:
•Start number 18 was manually annotated 4 times for cluster CB.
•Start number 19 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CG:
•Start number 19 was manually annotated 2 times for cluster CG.
•Start number 21 was manually annotated 2 times for cluster CG.

Gene Information:

Gene: Airmid_56 Start: 38747, Stop: 38496, Start Num: 19
Candidate Starts for Airmid_56:
(3, 38972), (7, 38867), (Start: 19 @38747 has 9 MA's), (27, 38666),

Gene: Benedict_59 Start: 38995, Stop: 38744, Start Num: 19
Candidate Starts for Benedict_59:
(2, 39262), (4, 39208), (5, 39199), (Start: 19 @38995 has 9 MA's), (27, 38914),

Gene: BillNye_92 Start: 68857, Stop: 69093, Start Num: 17
Candidate Starts for BillNye_92:
(Start: 17 @68857 has 6 MA's), (22, 68881), (23, 68902), (26, 68932), (35, 69022), (43, 69088),

Gene: Blueeyedbeauty_102 Start: 67743, Stop: 67976, Start Num: 17
Candidate Starts for Blueeyedbeauty_102:
(11, 67719), (15, 67740), (Start: 17 @67743 has 6 MA's), (23, 67785), (27, 67824),

Gene: Circinus_93 Start: 68844, Stop: 69080, Start Num: 17
Candidate Starts for Circinus_93:
(Start: 17 @68844 has 6 MA's), (22, 68868), (23, 68889), (26, 68919), (35, 69009), (43, 69075),

Gene: Coog_54 Start: 39045, Stop: 38788, Start Num: 16
Candidate Starts for Coog_54:
(Start: 16 @39045 has 4 MA's), (Start: 21 @39033 has 2 MA's), (34, 38886),

Gene: Cuco_55 Start: 38905, Stop: 38648, Start Num: 16
Candidate Starts for Cuco_55:
(Start: 16 @38905 has 4 MA's), (Start: 21 @38893 has 2 MA's), (34, 38746),

Gene: Dorin_147 Start: 88197, Stop: 88442, Start Num: 19
Candidate Starts for Dorin_147:

(Start: 19 @88197 has 9 MA's), (23, 88239), (29, 88293), (38, 88398), (39, 88404), (42, 88422),

Gene: Dorin_149 Start: 88606, Stop: 88848, Start Num: 21
Candidate Starts for Dorin_149:
(Start: 21 @88606 has 2 MA's), (37, 88783),

Gene: ElTiger69_58 Start: 38971, Stop: 38720, Start Num: 19
Candidate Starts for ElTiger69_58:
(3, 39196), (7, 39091), (Start: 19 @38971 has 9 MA's), (27, 38890),

Gene: Francesca_149 Start: 89303, Stop: 89536, Start Num: 21
Candidate Starts for Francesca_149:
(Start: 21 @89303 has 2 MA's),

Gene: Francesca_147 Start: 88894, Stop: 89139, Start Num: 19
Candidate Starts for Francesca_147:
(Start: 19 @88894 has 9 MA's), (23, 88936), (38, 89095), (39, 89101), (42, 89119),

Gene: Grayson_128 Start: 77193, Stop: 77435, Start Num: 18
Candidate Starts for Grayson_128:
(Start: 18 @77193 has 4 MA's), (24, 77244), (31, 77343), (32, 77346), (39, 77403), (42, 77421),

Gene: Grayson_127 Start: 76957, Stop: 77196, Start Num: 18
Candidate Starts for Grayson_127:
(Start: 18 @76957 has 4 MA's), (23, 76999), (28, 77050), (33, 77110), (40, 77170), (42, 77182),

Gene: Jabiru_57 Start: 38850, Stop: 38599, Start Num: 19
Candidate Starts for Jabiru_57:
(1, 39120), (Start: 19 @38850 has 9 MA's), (27, 38769),

Gene: Limpid_98 Start: 67780, Stop: 68013, Start Num: 17
Candidate Starts for Limpid_98:
(10, 67720), (12, 67762), (15, 67777), (Start: 17 @67780 has 6 MA's), (23, 67822), (42, 67999),

Gene: Midas2_54 Start: 39045, Stop: 38788, Start Num: 16
Candidate Starts for Midas2_54:
(Start: 16 @39045 has 4 MA's), (Start: 21 @39033 has 2 MA's), (34, 38886),

Gene: Muntaha_96 Start: 67690, Stop: 67926, Start Num: 17
Candidate Starts for Muntaha_96:
(Start: 17 @67690 has 6 MA's), (22, 67714), (23, 67735), (36, 67864), (43, 67921),

Gene: Naca_56 Start: 39389, Stop: 39138, Start Num: 20
Candidate Starts for Naca_56:
(6, 39530), (8, 39485), (13, 39401), (Start: 16 @39398 has 4 MA's), (Start: 20 @39389 has 1 MA's),
(33, 39242), (40, 39182), (41, 39173),

Gene: Nova53_158 Start: 90976, Stop: 91218, Start Num: 21
Candidate Starts for Nova53_158:
(Start: 21 @90976 has 2 MA's), (37, 91153),

Gene: Nova53_156 Start: 90559, Stop: 90810, Start Num: 19
Candidate Starts for Nova53_156:

(9, 90475), (14, 90550), (Start: 19 @90559 has 9 MA's), (24, 90607), (25, 90625), (39, 90766), (40, 90772), (42, 90784),

Gene: Peregrin_128 Start: 77403, Stop: 77645, Start Num: 18
Candidate Starts for Peregrin_128:
(Start: 18 @77403 has 4 MA's), (24, 77454), (39, 77613), (42, 77631),

Gene: Peregrin_127 Start: 77164, Stop: 77406, Start Num: 18
Candidate Starts for Peregrin_127:
(Start: 18 @77164 has 4 MA's), (40, 77380), (42, 77392),

Gene: PetterN_60 Start: 39004, Stop: 38753, Start Num: 19
Candidate Starts for PetterN_60:
(1, 39274), (7, 39124), (Start: 19 @39004 has 9 MA's), (27, 38923),

Gene: Scorpia_60 Start: 39063, Stop: 38812, Start Num: 19
Candidate Starts for Scorpia_60:
(1, 39333), (Start: 19 @39063 has 9 MA's), (27, 38982),

Gene: Swirley_57 Start: 39125, Stop: 38868, Start Num: 16
Candidate Starts for Swirley_57:
(Start: 16 @39125 has 4 MA's), (34, 38966),

Gene: Wakanda_94 Start: 67532, Stop: 67768, Start Num: 17
Candidate Starts for Wakanda_94:
(Start: 17 @67532 has 6 MA's), (22, 67556), (23, 67577), (36, 67706), (43, 67763),

Gene: Weasels2_130 Start: 78415, Stop: 78654, Start Num: 19
Candidate Starts for Weasels2_130:
(Start: 19 @78415 has 9 MA's), (30, 78529), (39, 78622), (42, 78640),