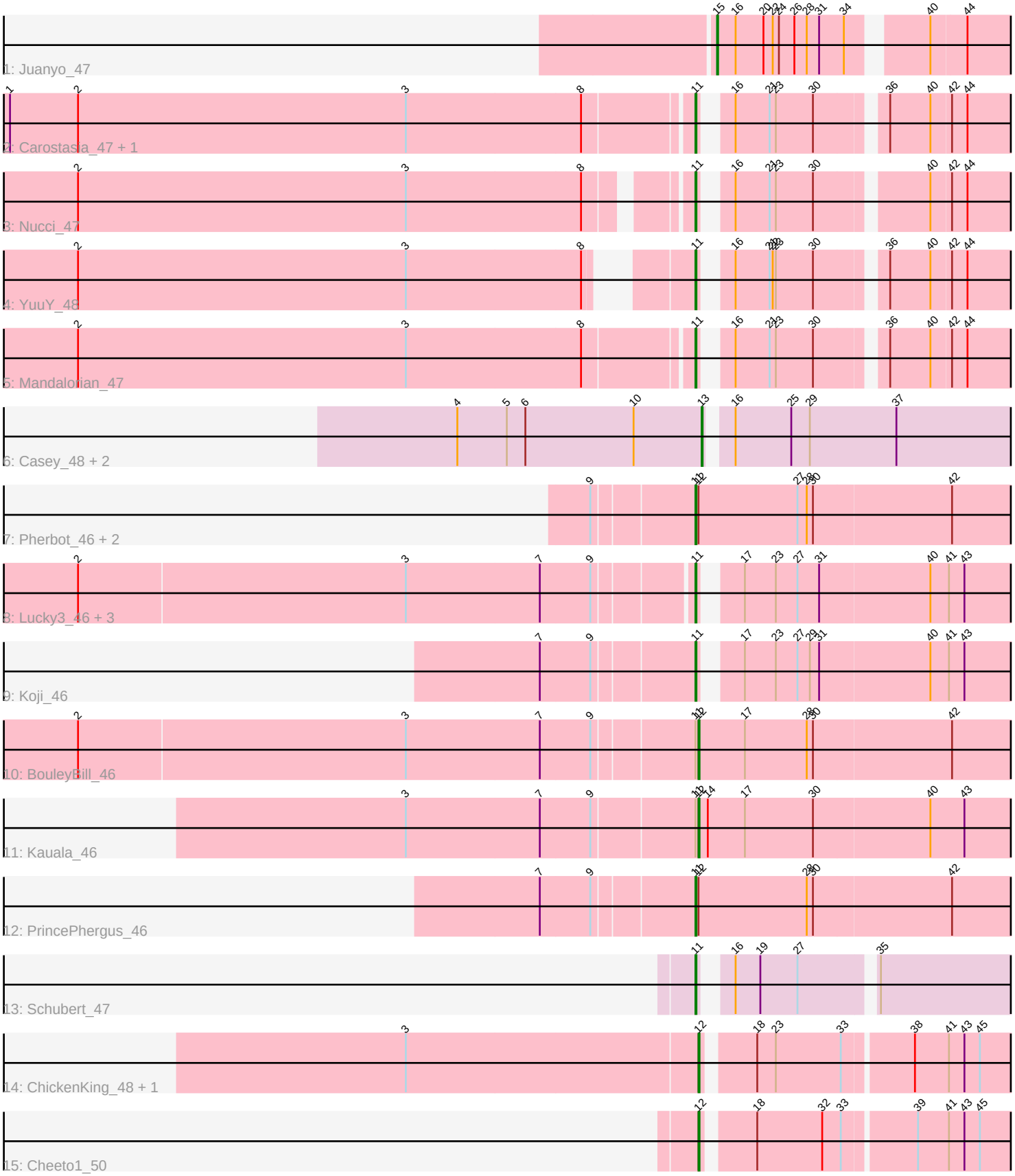
Pham 196793


1: Juanyo_47
2: Carostasia_47 + 1
3: Nucci_47
4: YuuY_48
5: Mandalorian_47
6: Casey_48 + 2
7: Pherbot_46 + 2
8: Lucky3_46 + 3
9: Koji_46
10: BouleyBill_46
11: Kauala_46
12: PrincePhergus_46
13: Schubert_47
14: ChickenKing_48 + 1
15: Cheeto1_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 196793 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196793 has 24 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Juanyo_47
• Track 2 : Carostasia_47, Quartz_48
• Track 3 : Nucci_47
• Track 4 : YuuY_48
• Track 5 : Mandalorian_47
• Track 6 : Casey_48, Pajaza_48, Pikmin_48
• Track 7 : Pherbot_46, Sinatra_47, Bustleton_46
• Track 8 : Lucky3_46, SirVictor_47, Golden_46, Guetzie_47
• Track 9 : Koji_46
• Track 10 : BouleyBill_46
• Track 11 : Kauala_46
• Track 12 : PrincePhergus_46
• Track 13 : Schubert_47
• Track 14 : ChickenKing_48, GaeCeo_50
• Track 15 : Cheeto1_50

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

The start number called the most often in the published annotations is 11, it was called in 15 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bustleton_46, Carostasia_47, Golden_46, Guetzie_47, Koji_46, Lucky3_46, Mandalorian_47, Nucci_47, Pherbot_46, PrincePhergus_46, Quartz_48, Schubert_47, Sinatra_47, SirVictor_47, YuuY_48,

Genes that have the "Most Annotated" start but do not call it:
• BouleyBill_46, Kauala_46,

Genes that do not have the "Most Annotated" start:
• Casey_48, Cheeto1_50, ChickenKing_48, GaeCeo_50, Juanyo_47, Pajaza_48, Pikmin_48,

Summary by start number:

Start 11:
• Found in 17 of 24 (70.8%) of genes in pham
• Manual Annotations of this start: 15 of 24
• Called 88.2% of time when present
• Phage (with cluster) where this start called: Bustleton_46 (EA4), Carostasia_47 (EA10), Golden_46 (EA4), Guetzie_47 (EA4), Koji_46 (EA4), Lucky3_46 (EA4), Mandalorian_47 (EA10), Nucci_47 (EA10), Pherbot_46 (EA4), PrincePhergus_46 (EA4), Quartz_48 (EA10), Schubert_47 (EA8), Sinatra_47 (EA4), SirVictor_47 (EA4), YuuY_48 (EA10),

Start 12:
• Found in 9 of 24 (37.5%) of genes in pham
• Manual Annotations of this start: 5 of 24
• Called 55.6% of time when present
• Phage (with cluster) where this start called: BouleyBill_46 (EA4), Cheeto1_50 (EA9), ChickenKing_48 (EA9), GaeCeo_50 (EA9), Kauala_46 (EA4),

Start 13:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Casey_48 (EA3), Pajaza_48 (EA3), Pikmin_48 (EA3),

Start 15:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Juanyo_47 (EA10),

Summary by clusters:

There are 5 clusters represented in this pham: EA9, EA8, EA3, EA10, EA4,

Info for manual annotations of cluster EA10:
•Start number 11 was manually annotated 5 times for cluster EA10.
•Start number 15 was manually annotated 1 time for cluster EA10.

Info for manual annotations of cluster EA3:
•Start number 13 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:
•Start number 11 was manually annotated 9 times for cluster EA4.
•Start number 12 was manually annotated 2 times for cluster EA4.

Info for manual annotations of cluster EA8:
•Start number 11 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:
•Start number 12 was manually annotated 3 times for cluster EA9.

Gene Information:

Gene: BouleyBill_46 Start: 34037, Stop: 33723, Start Num: 12
Candidate Starts for BouleyBill_46:
(2, 34625), (3, 34310), (7, 34181), (9, 34133), (Start: 11 @34040 has 15 MA's), (Start: 12 @34037 has 5 MA's), (17, 33992), (28, 33932), (30, 33926), (42, 33794),

Gene: Bustleton_46 Start: 33834, Stop: 33517, Start Num: 11
Candidate Starts for Bustleton_46:
(9, 33927), (Start: 11 @33834 has 15 MA's), (Start: 12 @33831 has 5 MA's), (27, 33735), (28, 33726), (30, 33720), (42, 33588),

Gene: Carostasia_47 Start: 34378, Stop: 34094, Start Num: 11
Candidate Starts for Carostasia_47:
(1, 35029), (2, 34963), (3, 34645), (8, 34477), (Start: 11 @34378 has 15 MA's), (16, 34360), (21, 34327), (23, 34321), (30, 34285), (36, 34228), (40, 34189), (42, 34171), (44, 34156),

Gene: Casey_48 Start: 34605, Stop: 34303, Start Num: 13
Candidate Starts for Casey_48:
(4, 34842), (5, 34794), (6, 34776), (10, 34671), (Start: 13 @34605 has 3 MA's), (16, 34587), (25, 34533), (29, 34515), (37, 34431),

Gene: Cheeto1_50 Start: 35303, Stop: 35010, Start Num: 12
Candidate Starts for Cheeto1_50:
(Start: 12 @35303 has 5 MA's), (18, 35261), (32, 35198), (33, 35180), (39, 35114), (41, 35084), (43, 35069), (45, 35054),

Gene: ChickenKing_48 Start: 35196, Stop: 34903, Start Num: 12
Candidate Starts for ChickenKing_48:
(3, 35475), (Start: 12 @35196 has 5 MA's), (18, 35154), (23, 35136), (33, 35073), (38, 35010), (41, 34977), (43, 34962), (45, 34947),

Gene: GaeCeo_50 Start: 35429, Stop: 35136, Start Num: 12
Candidate Starts for GaeCeo_50:
(3, 35708), (Start: 12 @35429 has 5 MA's), (18, 35387), (23, 35369), (33, 35306), (38, 35243), (41, 35210), (43, 35195), (45, 35180),

Gene: Golden_46 Start: 33894, Stop: 33598, Start Num: 11
Candidate Starts for Golden_46:
(2, 34473), (3, 34158), (7, 34029), (9, 33981), (Start: 11 @33894 has 15 MA's), (17, 33867), (23, 33837), (27, 33816), (31, 33795), (40, 33690), (41, 33672), (43, 33657),

Gene: Guetzie_47 Start: 33879, Stop: 33583, Start Num: 11
Candidate Starts for Guetzie_47:
(2, 34458), (3, 34143), (7, 34014), (9, 33966), (Start: 11 @33879 has 15 MA's), (17, 33852), (23, 33822), (27, 33801), (31, 33780), (40, 33675), (41, 33657), (43, 33642),

Gene: Juanyo_47 Start: 34226, Stop: 33948, Start Num: 15
Candidate Starts for Juanyo_47:
(Start: 15 @34226 has 1 MA's), (16, 34208), (20, 34181), (22, 34172), (24, 34166), (26, 34151), (28, 34139), (31, 34127), (34, 34103), (40, 34040), (44, 34007),

Gene: Kauala_46 Start: 34203, Stop: 33889, Start Num: 12

Candidate Starts for Kauala_46:
(3, 34479), (7, 34350), (9, 34302), (Start: 11 @34206 has 15 MA's), (Start: 12 @34203 has 5 MA's), (14, 34194), (17, 34158), (30, 34092), (40, 33981), (43, 33948),

Gene: Koji_46 Start: 34187, Stop: 33891, Start Num: 11
Candidate Starts for Koji_46:
(7, 34328), (9, 34280), (Start: 11 @34187 has 15 MA's), (17, 34160), (23, 34130), (27, 34109), (29, 34097), (31, 34088), (40, 33983), (41, 33965), (43, 33950),

Gene: Lucky3_46 Start: 33894, Stop: 33598, Start Num: 11
Candidate Starts for Lucky3_46:
(2, 34473), (3, 34158), (7, 34029), (9, 33981), (Start: 11 @33894 has 15 MA's), (17, 33867), (23, 33837), (27, 33816), (31, 33795), (40, 33690), (41, 33672), (43, 33657),

Gene: Mandalorian_47 Start: 34388, Stop: 34104, Start Num: 11
Candidate Starts for Mandalorian_47:
(2, 34973), (3, 34655), (8, 34487), (Start: 11 @34388 has 15 MA's), (16, 34370), (21, 34337), (23, 34331), (30, 34295), (36, 34238), (40, 34199), (42, 34181), (44, 34166),

Gene: Nucci_47 Start: 34371, Stop: 34087, Start Num: 11
Candidate Starts for Nucci_47:
(2, 34938), (3, 34620), (8, 34452), (Start: 11 @34371 has 15 MA's), (16, 34353), (21, 34320), (23, 34314), (30, 34278), (40, 34182), (42, 34164), (44, 34149),

Gene: Pajaza_48 Start: 34605, Stop: 34303, Start Num: 13
Candidate Starts for Pajaza_48:
(4, 34842), (5, 34794), (6, 34776), (10, 34671), (Start: 13 @34605 has 3 MA's), (16, 34587), (25, 34533), (29, 34515), (37, 34431),

Gene: Pherbot_46 Start: 33821, Stop: 33504, Start Num: 11
Candidate Starts for Pherbot_46:
(9, 33914), (Start: 11 @33821 has 15 MA's), (Start: 12 @33818 has 5 MA's), (27, 33722), (28, 33713), (30, 33707), (42, 33575),

Gene: Pikmin_48 Start: 34605, Stop: 34303, Start Num: 13
Candidate Starts for Pikmin_48:
(4, 34842), (5, 34794), (6, 34776), (10, 34671), (Start: 13 @34605 has 3 MA's), (16, 34587), (25, 34533), (29, 34515), (37, 34431),

Gene: PrincePhergus_46 Start: 33837, Stop: 33520, Start Num: 11
Candidate Starts for PrincePhergus_46:
(7, 33978), (9, 33930), (Start: 11 @33837 has 15 MA's), (Start: 12 @33834 has 5 MA's), (28, 33729), (30, 33723), (42, 33591),

Gene: Quartz_48 Start: 34501, Stop: 34217, Start Num: 11
Candidate Starts for Quartz_48:
(1, 35152), (2, 35086), (3, 34768), (8, 34600), (Start: 11 @34501 has 15 MA's), (16, 34483), (21, 34450), (23, 34444), (30, 34408), (36, 34351), (40, 34312), (42, 34294), (44, 34279),

Gene: Schubert_47 Start: 34593, Stop: 34306, Start Num: 11
Candidate Starts for Schubert_47:
(Start: 11 @34593 has 15 MA's), (16, 34575), (19, 34551), (27, 34515), (35, 34449),

Gene: Sinatra_47 Start: 33832, Stop: 33515, Start Num: 11
Candidate Starts for Sinatra_47:
(9, 33925), (Start: 11 @33832 has 15 MA's), (Start: 12 @33829 has 5 MA's), (27, 33733), (28, 33724), (30, 33718), (42, 33586),

Gene: SirVictor_47 Start: 33879, Stop: 33583, Start Num: 11
Candidate Starts for SirVictor_47:
(2, 34458), (3, 34143), (7, 34014), (9, 33966), (Start: 11 @33879 has 15 MA's), (17, 33852), (23, 33822), (27, 33801), (31, 33780), (40, 33675), (41, 33657), (43, 33642),

Gene: YuuY_48 Start: 34957, Stop: 34676, Start Num: 11
Candidate Starts for YuuY_48:
(2, 35509), (3, 35191), (8, 35023), (Start: 11 @34957 has 15 MA's), (16, 34939), (21, 34906), (22, 34903), (23, 34900), (30, 34864), (36, 34807), (40, 34768), (42, 34750), (44, 34735),