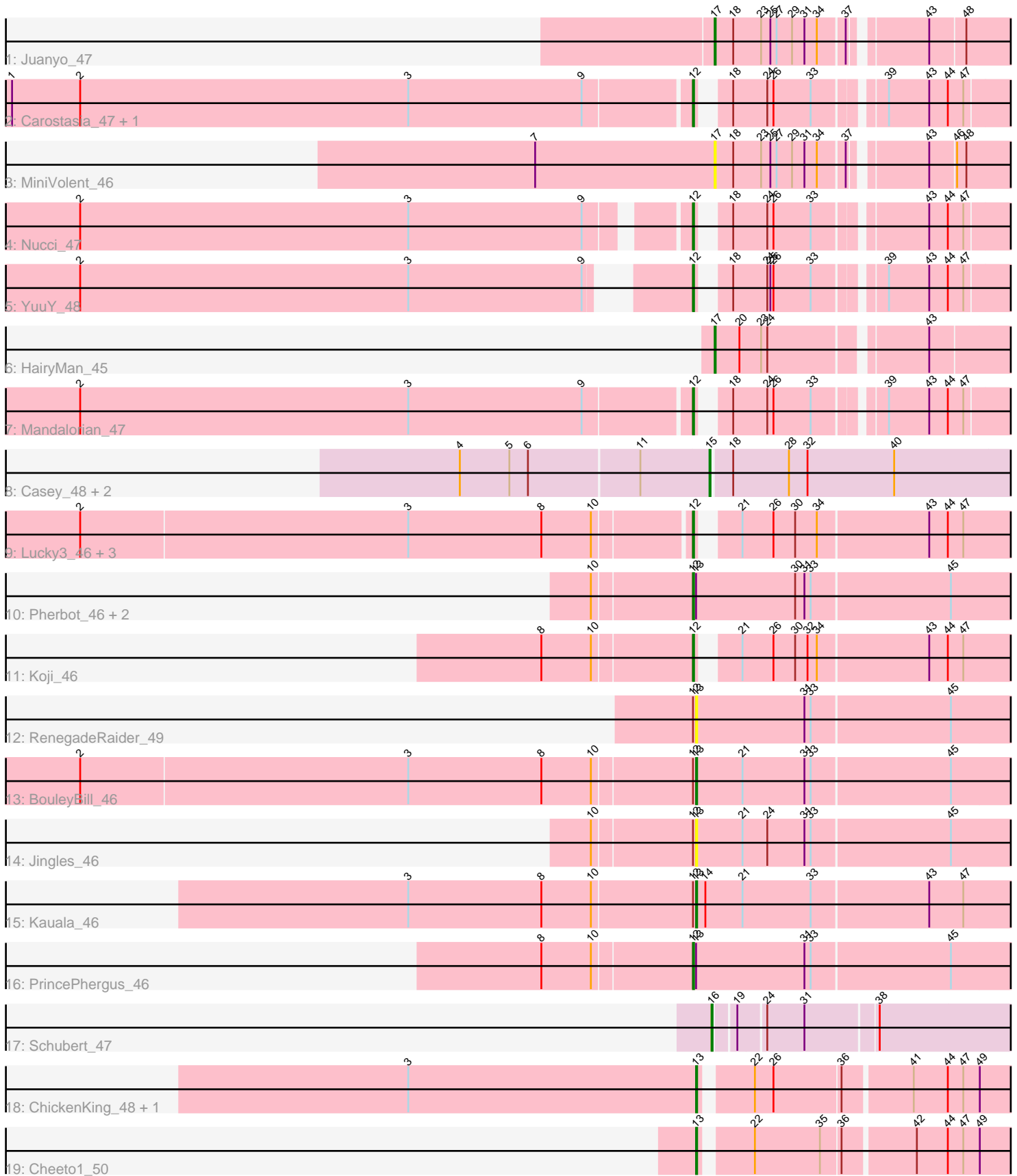


Pham 294990



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 294990 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294990 has 28 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Juanyo_47
- Track 2 : Carostasia_47, Quartz_48
- Track 3 : MiniVolent_46
- Track 4 : Nucci_47
- Track 5 : YuuY_48
- Track 6 : HairyMan_45
- Track 7 : Mandalorian_47
- Track 8 : Casey_48, Pajaza_48, Pikmin_48
- Track 9 : Lucky3_46, SirVictor_47, Golden_46, Guetzie_47
- Track 10 : Pherbot_46, Sinatra_47, Bustleton_46
- Track 11 : Koji_46
- Track 12 : RenegadeRaider_49
- Track 13 : BouleyBill_46
- Track 14 : Jingles_46
- Track 15 : Kauala_46
- Track 16 : PrincePhergus_46
- Track 17 : Schubert_47
- Track 18 : ChickenKing_48, GaeCeo_50
- Track 19 : 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 12, it was called in 14 of the 25 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, Sinatra_47, SirVictor_47, YuuY_48,

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

- BouleyBill_46, Jingles_46, Kauala_46, RenegadeRaider_49,

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

- Casey_48, Cheeto1_50, ChickenKing_48, GaeCeo_50, HairyMan_45, Juanyo_47, MiniVolent_46, Pajaza_48, Pikmin_48, Schubert_47,

Summary by start number:

Start 12:

- Found in 18 of 28 (64.3%) of genes in pham
- Manual Annotations of this start: 14 of 25
- Called 77.8% 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), Sinatra_47 (EA4), SirVictor_47 (EA4), YuuY_48 (EA10),

Start 13:

- Found in 11 of 28 (39.3%) of genes in pham
- Manual Annotations of this start: 5 of 25
- Called 63.6% of time when present
- Phage (with cluster) where this start called: BouleyBill_46 (EA4), Cheeto1_50 (EA9), ChickenKing_48 (EA9), GaeCeo_50 (EA9), Jingles_46 (EA4), Kauala_46 (EA4), RenegadeRaider_49 (EA4),

Start 15:

- Found in 3 of 28 (10.7%) of genes in pham
- Manual Annotations of this start: 3 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Casey_48 (EA3), Pajaza_48 (EA3), Pikmin_48 (EA3),

Start 16:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schubert_47 (EA8),

Start 17:

- Found in 3 of 28 (10.7%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HairyMan_45 (EA10), Juanyo_47 (EA10), MiniVolent_46 (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 12 was manually annotated 5 times for cluster EA10.
- Start number 17 was manually annotated 2 times for cluster EA10.

Info for manual annotations of cluster EA3:

- Start number 15 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 12 was manually annotated 9 times for cluster EA4.
- Start number 13 was manually annotated 2 times for cluster EA4.

Info for manual annotations of cluster EA8:

- Start number 16 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 13 was manually annotated 3 times for cluster EA9.

Gene Information:

Gene: BouleyBill_46 Start: 34037, Stop: 33723, Start Num: 13

Candidate Starts for BouleyBill_46:

(2, 34625), (3, 34310), (8, 34181), (10, 34133), (Start: 12 @34040 has 14 MA's), (Start: 13 @34037 has 5 MA's), (21, 33992), (31, 33932), (33, 33926), (45, 33794),

Gene: Bustleton_46 Start: 33834, Stop: 33517, Start Num: 12

Candidate Starts for Bustleton_46:

(10, 33927), (Start: 12 @33834 has 14 MA's), (Start: 13 @33831 has 5 MA's), (30, 33735), (31, 33726), (33, 33720), (45, 33588),

Gene: Carostasia_47 Start: 34378, Stop: 34094, Start Num: 12

Candidate Starts for Carostasia_47:

(1, 35029), (2, 34963), (3, 34645), (9, 34477), (Start: 12 @34378 has 14 MA's), (18, 34360), (24, 34327), (26, 34321), (33, 34285), (39, 34228), (43, 34189), (44, 34171), (47, 34156),

Gene: Casey_48 Start: 34605, Stop: 34303, Start Num: 15

Candidate Starts for Casey_48:

(4, 34842), (5, 34794), (6, 34776), (11, 34671), (Start: 15 @34605 has 3 MA's), (18, 34587), (28, 34533), (32, 34515), (40, 34431),

Gene: Cheeto1_50 Start: 35303, Stop: 35010, Start Num: 13

Candidate Starts for Cheeto1_50:

(Start: 13 @35303 has 5 MA's), (22, 35261), (35, 35198), (36, 35180), (42, 35114), (44, 35084), (47, 35069), (49, 35054),

Gene: ChickenKing_48 Start: 35196, Stop: 34903, Start Num: 13

Candidate Starts for ChickenKing_48:

(3, 35475), (Start: 13 @35196 has 5 MA's), (22, 35154), (26, 35136), (36, 35073), (41, 35010), (44, 34977), (47, 34962), (49, 34947),

Gene: GaeCeo_50 Start: 35429, Stop: 35136, Start Num: 13

Candidate Starts for GaeCeo_50:

(3, 35708), (Start: 13 @35429 has 5 MA's), (22, 35387), (26, 35369), (36, 35306), (41, 35243), (44, 35210), (47, 35195), (49, 35180),

Gene: Golden_46 Start: 33894, Stop: 33598, Start Num: 12

Candidate Starts for Golden_46:

(2, 34473), (3, 34158), (8, 34029), (10, 33981), (Start: 12 @33894 has 14 MA's), (21, 33867), (26, 33837), (30, 33816), (34, 33795), (43, 33690), (44, 33672), (47, 33657),

Gene: Guetzie_47 Start: 33879, Stop: 33583, Start Num: 12

Candidate Starts for Guetzie_47:

(2, 34458), (3, 34143), (8, 34014), (10, 33966), (Start: 12 @33879 has 14 MA's), (21, 33852), (26, 33822), (30, 33801), (34, 33780), (43, 33675), (44, 33657), (47, 33642),

Gene: HairyMan_45 Start: 34255, Stop: 33980, Start Num: 17

Candidate Starts for HairyMan_45:

(Start: 17 @34255 has 2 MA's), (20, 34231), (23, 34210), (24, 34204), (43, 34066),

Gene: Jingles_46 Start: 34046, Stop: 33732, Start Num: 13

Candidate Starts for Jingles_46:

(10, 34142), (Start: 12 @34049 has 14 MA's), (Start: 13 @34046 has 5 MA's), (21, 34001), (24, 33977), (31, 33941), (33, 33935), (45, 33803),

Gene: Juanyo_47 Start: 34226, Stop: 33948, Start Num: 17

Candidate Starts for Juanyo_47:

(Start: 17 @34226 has 2 MA's), (18, 34208), (23, 34181), (25, 34172), (27, 34166), (29, 34151), (31, 34139), (34, 34127), (37, 34103), (43, 34040), (48, 34007),

Gene: Kauala_46 Start: 34203, Stop: 33889, Start Num: 13

Candidate Starts for Kauala_46:

(3, 34479), (8, 34350), (10, 34302), (Start: 12 @34206 has 14 MA's), (Start: 13 @34203 has 5 MA's), (14, 34194), (21, 34158), (33, 34092), (43, 33981), (47, 33948),

Gene: Koji_46 Start: 34187, Stop: 33891, Start Num: 12

Candidate Starts for Koji_46:

(8, 34328), (10, 34280), (Start: 12 @34187 has 14 MA's), (21, 34160), (26, 34130), (30, 34109), (32, 34097), (34, 34088), (43, 33983), (44, 33965), (47, 33950),

Gene: Lucky3_46 Start: 33894, Stop: 33598, Start Num: 12

Candidate Starts for Lucky3_46:

(2, 34473), (3, 34158), (8, 34029), (10, 33981), (Start: 12 @33894 has 14 MA's), (21, 33867), (26, 33837), (30, 33816), (34, 33795), (43, 33690), (44, 33672), (47, 33657),

Gene: Mandalorian_47 Start: 34388, Stop: 34104, Start Num: 12

Candidate Starts for Mandalorian_47:

(2, 34973), (3, 34655), (9, 34487), (Start: 12 @34388 has 14 MA's), (18, 34370), (24, 34337), (26, 34331), (33, 34295), (39, 34238), (43, 34199), (44, 34181), (47, 34166),

Gene: MiniVolent_46 Start: 34188, Stop: 33910, Start Num: 17

Candidate Starts for MiniVolent_46:

(7, 34362), (Start: 17 @34188 has 2 MA's), (18, 34170), (23, 34143), (25, 34134), (27, 34128), (29, 34113), (31, 34101), (34, 34089), (37, 34065), (43, 34002), (46, 33978), (48, 33969),

Gene: Nucci_47 Start: 34371, Stop: 34087, Start Num: 12

Candidate Starts for Nucci_47:

(2, 34938), (3, 34620), (9, 34452), (Start: 12 @34371 has 14 MA's), (18, 34353), (24, 34320), (26, 34314), (33, 34278), (43, 34182), (44, 34164), (47, 34149),

Gene: Pajaza_48 Start: 34605, Stop: 34303, Start Num: 15

Candidate Starts for Pajaza_48:

(4, 34842), (5, 34794), (6, 34776), (11, 34671), (Start: 15 @34605 has 3 MA's), (18, 34587), (28, 34533), (32, 34515), (40, 34431),

Gene: Pherbot_46 Start: 33821, Stop: 33504, Start Num: 12

Candidate Starts for Pherbot_46:

(10, 33914), (Start: 12 @33821 has 14 MA's), (Start: 13 @33818 has 5 MA's), (30, 33722), (31, 33713), (33, 33707), (45, 33575),

Gene: Pikmin_48 Start: 34605, Stop: 34303, Start Num: 15

Candidate Starts for Pikmin_48:

(4, 34842), (5, 34794), (6, 34776), (11, 34671), (Start: 15 @34605 has 3 MA's), (18, 34587), (28, 34533), (32, 34515), (40, 34431),

Gene: PrincePhergus_46 Start: 33837, Stop: 33520, Start Num: 12

Candidate Starts for PrincePhergus_46:

(8, 33978), (10, 33930), (Start: 12 @33837 has 14 MA's), (Start: 13 @33834 has 5 MA's), (31, 33729), (33, 33723), (45, 33591),

Gene: Quartz_48 Start: 34501, Stop: 34217, Start Num: 12

Candidate Starts for Quartz_48:

(1, 35152), (2, 35086), (3, 34768), (9, 34600), (Start: 12 @34501 has 14 MA's), (18, 34483), (24, 34450), (26, 34444), (33, 34408), (39, 34351), (43, 34312), (44, 34294), (47, 34279),

Gene: RenegadeRaider_49 Start: 33889, Stop: 33575, Start Num: 13

Candidate Starts for RenegadeRaider_49:

(Start: 12 @33892 has 14 MA's), (Start: 13 @33889 has 5 MA's), (31, 33784), (33, 33778), (45, 33646),

Gene: Schubert_47 Start: 34593, Stop: 34306, Start Num: 16

Candidate Starts for Schubert_47:

(Start: 16 @34593 has 1 MA's), (19, 34575), (24, 34551), (31, 34515), (38, 34449),

Gene: Sinatra_47 Start: 33832, Stop: 33515, Start Num: 12

Candidate Starts for Sinatra_47:

(10, 33925), (Start: 12 @33832 has 14 MA's), (Start: 13 @33829 has 5 MA's), (30, 33733), (31, 33724), (33, 33718), (45, 33586),

Gene: SirVictor_47 Start: 33879, Stop: 33583, Start Num: 12

Candidate Starts for SirVictor_47:

(2, 34458), (3, 34143), (8, 34014), (10, 33966), (Start: 12 @33879 has 14 MA's), (21, 33852), (26, 33822), (30, 33801), (34, 33780), (43, 33675), (44, 33657), (47, 33642),

Gene: YuuY_48 Start: 34957, Stop: 34676, Start Num: 12

Candidate Starts for YuuY_48:

(2, 35509), (3, 35191), (9, 35023), (Start: 12 @34957 has 14 MA's), (18, 34939), (24, 34906), (25, 34903), (26, 34900), (33, 34864), (39, 34807), (43, 34768), (44, 34750), (47, 34735),