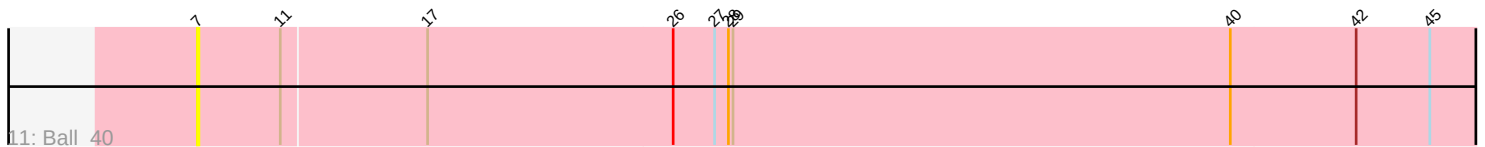
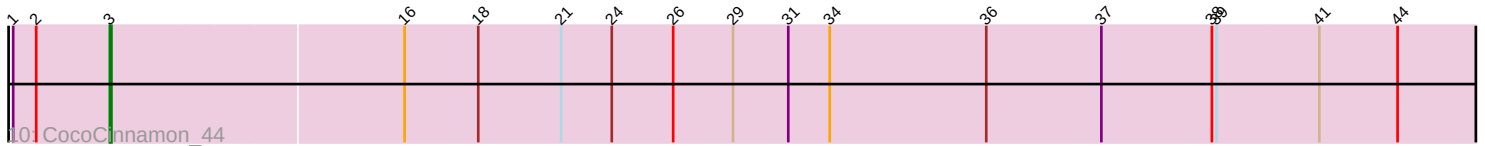
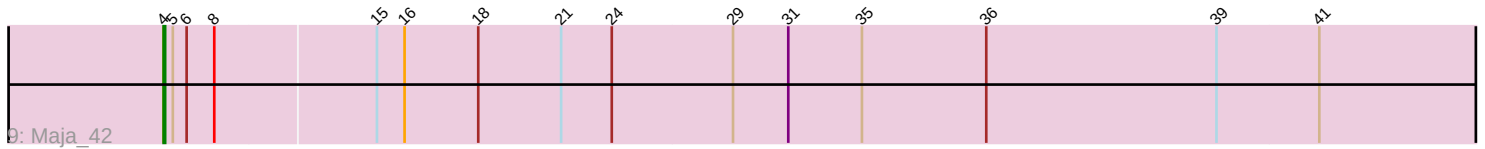
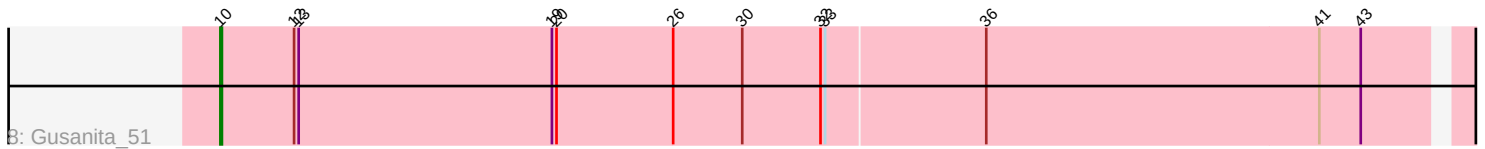
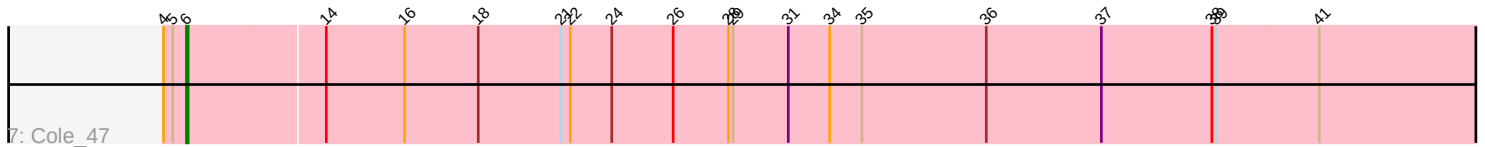
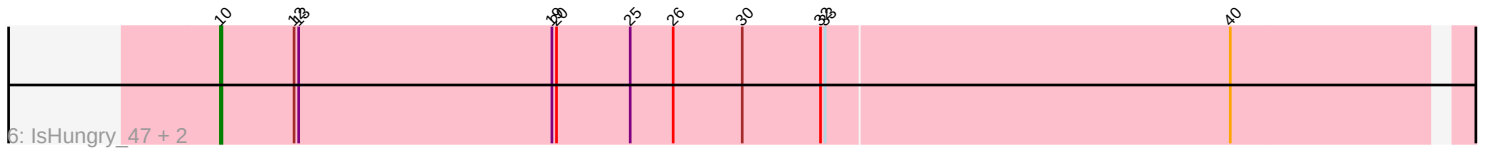
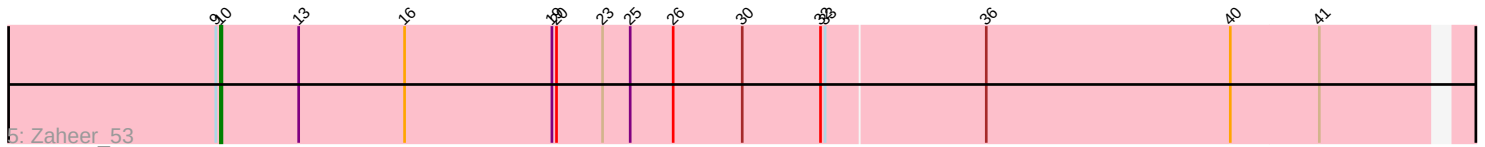
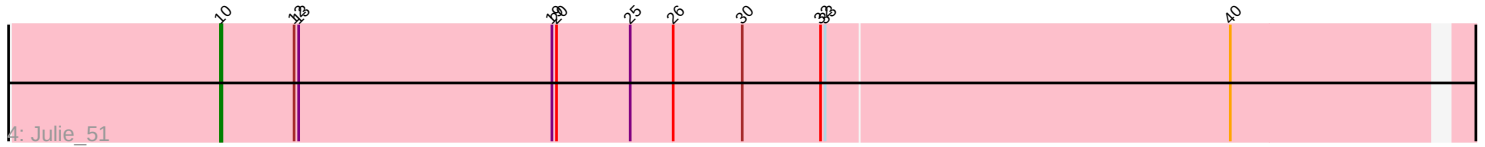
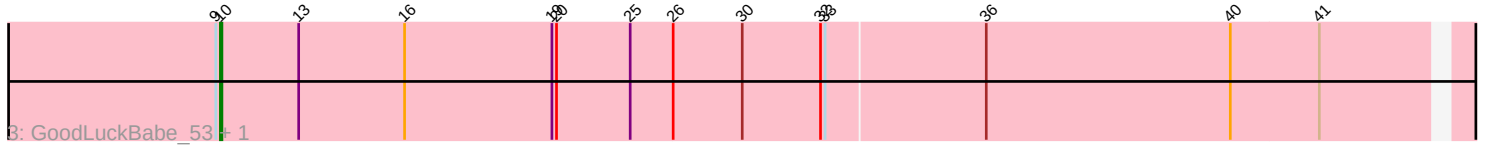
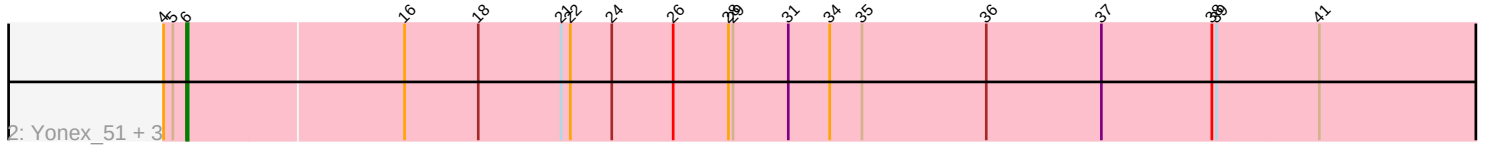
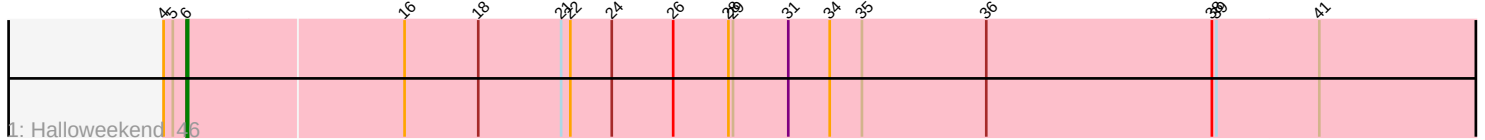


Pham 280954



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 280954 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280954 has 17 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Halloweekend_46
- Track 2 : Yonex_51, QuinnAvery_52, Donatella_49, Ryan_51
- Track 3 : GoodLuckBabe_53, Guinevere_55
- Track 4 : Julie_51
- Track 5 : Zaheer_53
- Track 6 : IsHungry_47, Popper_52, MillySue_52
- Track 7 : Cole_47
- Track 8 : Gusanita_51
- Track 9 : Maja_42
- Track 10 : CocoCinnamon_44
- Track 11 : Ball_40

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 6 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- GoodLuckBabe_53, Guinevere_55, Gusanita_51, IsHungry_47, Julie_51, MillySue_52, Popper_52, Zaheer_53,

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

-

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

- Ball_40, CocoCinnamon_44, Cole_47, Donatella_49, Halloweekend_46, Maja_42, QuinnAvery_52, Ryan_51, Yonex_51,

Summary by start number:

Start 3:

- Found in 1 of 17 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: CocoCinnamon_44 (FO),

Start 4:

- Found in 7 of 17 (41.2%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Maja_42 (FO),

Start 6:

- Found in 7 of 17 (41.2%) of genes in pham
- Manual Annotations of this start: 5 of 13
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Cole_47 (FF), Donatella_49 (FF), Halloweekend_46 (FF), QuinnAvery_52 (FF), Ryan_51 (FF), Yonex_51 (FF),

Start 7:

- Found in 1 of 17 (5.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ball_40 (singleton),

Start 10:

- Found in 8 of 17 (47.1%) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GoodLuckBabe_53 (FF), Guinevere_55 (FF), Gusanita_51 (FF), IsHungry_47 (FF), Julie_51 (FF), MillySue_52 (FF), Popper_52 (FF), Zaheer_53 (FF),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, FF, FO,

Info for manual annotations of cluster FF:

- Start number 6 was manually annotated 5 times for cluster FF.
- Start number 10 was manually annotated 6 times for cluster FF.

Info for manual annotations of cluster FO:

- Start number 3 was manually annotated 1 time for cluster FO.
- Start number 4 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: Ball_40 Start: 29611, Stop: 30444, Start Num: 7

Candidate Starts for Ball_40:

(7, 29611), (11, 29665), (17, 29758), (26, 29917), (27, 29944), (28, 29953), (29, 29956), (40, 30280), (42, 30361), (45, 30409),

Gene: CocoCinnamon_44 Start: 29916, Stop: 30803, Start Num: 3

Candidate Starts for CocoCinnamon_44:

(1, 29853), (2, 29868), (Start: 3 @29916 has 1 MA's), (16, 30102), (18, 30150), (21, 30204), (24, 30237), (26, 30276), (29, 30315), (31, 30351), (34, 30378), (36, 30480), (37, 30555), (38, 30627), (39, 30630), (41, 30696), (44, 30747),

Gene: Cole_47 Start: 33705, Stop: 34544, Start Num: 6

Candidate Starts for Cole_47:

(Start: 4 @33690 has 1 MA's), (5, 33696), (Start: 6 @33705 has 5 MA's), (14, 33792), (16, 33843), (18, 33891), (21, 33945), (22, 33951), (24, 33978), (26, 34017), (28, 34053), (29, 34056), (31, 34092), (34, 34119), (35, 34140), (36, 34221), (37, 34296), (38, 34368), (39, 34371), (41, 34437),

Gene: Donatella_49 Start: 34170, Stop: 35009, Start Num: 6

Candidate Starts for Donatella_49:

(Start: 4 @34155 has 1 MA's), (5, 34161), (Start: 6 @34170 has 5 MA's), (16, 34308), (18, 34356), (21, 34410), (22, 34416), (24, 34443), (26, 34482), (28, 34518), (29, 34521), (31, 34557), (34, 34584), (35, 34605), (36, 34686), (37, 34761), (38, 34833), (39, 34836), (41, 34902),

Gene: GoodLuckBabe_53 Start: 34865, Stop: 35668, Start Num: 10

Candidate Starts for GoodLuckBabe_53:

(9, 34862), (Start: 10 @34865 has 6 MA's), (13, 34916), (16, 34985), (19, 35081), (20, 35084), (25, 35132), (26, 35159), (30, 35204), (32, 35255), (33, 35258), (36, 35360), (40, 35519), (41, 35576),

Gene: Guinevere_55 Start: 34842, Stop: 35645, Start Num: 10

Candidate Starts for Guinevere_55:

(9, 34839), (Start: 10 @34842 has 6 MA's), (13, 34893), (16, 34962), (19, 35058), (20, 35061), (25, 35109), (26, 35136), (30, 35181), (32, 35232), (33, 35235), (36, 35337), (40, 35496), (41, 35553),

Gene: Gusanita_51 Start: 34996, Stop: 35799, Start Num: 10

Candidate Starts for Gusanita_51:

(Start: 10 @34996 has 6 MA's), (12, 35044), (13, 35047), (19, 35212), (20, 35215), (26, 35290), (30, 35335), (32, 35386), (33, 35389), (36, 35491), (41, 35707), (43, 35734),

Gene: Halloweekend_46 Start: 33347, Stop: 34186, Start Num: 6

Candidate Starts for Halloweekend_46:

(Start: 4 @33332 has 1 MA's), (5, 33338), (Start: 6 @33347 has 5 MA's), (16, 33485), (18, 33533), (21, 33587), (22, 33593), (24, 33620), (26, 33659), (28, 33695), (29, 33698), (31, 33734), (34, 33761), (35, 33782), (36, 33863), (38, 34010), (39, 34013), (41, 34079),

Gene: IsHungry_47 Start: 33169, Stop: 33972, Start Num: 10

Candidate Starts for IsHungry_47:

(Start: 10 @33169 has 6 MA's), (12, 33217), (13, 33220), (19, 33385), (20, 33388), (25, 33436), (26, 33463), (30, 33508), (32, 33559), (33, 33562), (40, 33823),

Gene: Julie_51 Start: 34956, Stop: 35759, Start Num: 10

Candidate Starts for Julie_51:

(Start: 10 @34956 has 6 MA's), (12, 35004), (13, 35007), (19, 35172), (20, 35175), (25, 35223), (26, 35250), (30, 35295), (32, 35346), (33, 35349), (40, 35610),

Gene: Maja_42 Start: 30329, Stop: 31183, Start Num: 4

Candidate Starts for Maja_42:

(Start: 4 @30329 has 1 MA's), (5, 30335), (Start: 6 @30344 has 5 MA's), (8, 30362), (15, 30464), (16, 30482), (18, 30530), (21, 30584), (24, 30617), (29, 30695), (31, 30731), (35, 30779), (36, 30860), (39, 31010), (41, 31076),

Gene: MillySue_52 Start: 34794, Stop: 35597, Start Num: 10

Candidate Starts for MillySue_52:

(Start: 10 @34794 has 6 MA's), (12, 34842), (13, 34845), (19, 35010), (20, 35013), (25, 35061), (26, 35088), (30, 35133), (32, 35184), (33, 35187), (40, 35448),

Gene: Popper_52 Start: 34367, Stop: 35170, Start Num: 10

Candidate Starts for Popper_52:

(Start: 10 @34367 has 6 MA's), (12, 34415), (13, 34418), (19, 34583), (20, 34586), (25, 34634), (26, 34661), (30, 34706), (32, 34757), (33, 34760), (40, 35021),

Gene: QuinnAvery_52 Start: 34788, Stop: 35627, Start Num: 6

Candidate Starts for QuinnAvery_52:

(Start: 4 @34773 has 1 MA's), (5, 34779), (Start: 6 @34788 has 5 MA's), (16, 34926), (18, 34974), (21, 35028), (22, 35034), (24, 35061), (26, 35100), (28, 35136), (29, 35139), (31, 35175), (34, 35202), (35, 35223), (36, 35304), (37, 35379), (38, 35451), (39, 35454), (41, 35520),

Gene: Ryan_51 Start: 34472, Stop: 35311, Start Num: 6

Candidate Starts for Ryan_51:

(Start: 4 @34457 has 1 MA's), (5, 34463), (Start: 6 @34472 has 5 MA's), (16, 34610), (18, 34658), (21, 34712), (22, 34718), (24, 34745), (26, 34784), (28, 34820), (29, 34823), (31, 34859), (34, 34886), (35, 34907), (36, 34988), (37, 35063), (38, 35135), (39, 35138), (41, 35204),

Gene: Yonex_51 Start: 34472, Stop: 35311, Start Num: 6

Candidate Starts for Yonex_51:

(Start: 4 @34457 has 1 MA's), (5, 34463), (Start: 6 @34472 has 5 MA's), (16, 34610), (18, 34658), (21, 34712), (22, 34718), (24, 34745), (26, 34784), (28, 34820), (29, 34823), (31, 34859), (34, 34886), (35, 34907), (36, 34988), (37, 35063), (38, 35135), (39, 35138), (41, 35204),

Gene: Zaheer_53 Start: 35680, Stop: 36483, Start Num: 10

Candidate Starts for Zaheer_53:

(9, 35677), (Start: 10 @35680 has 6 MA's), (13, 35731), (16, 35800), (19, 35896), (20, 35899), (23, 35929), (25, 35947), (26, 35974), (30, 36019), (32, 36070), (33, 36073), (36, 36175), (40, 36334), (41, 36391),