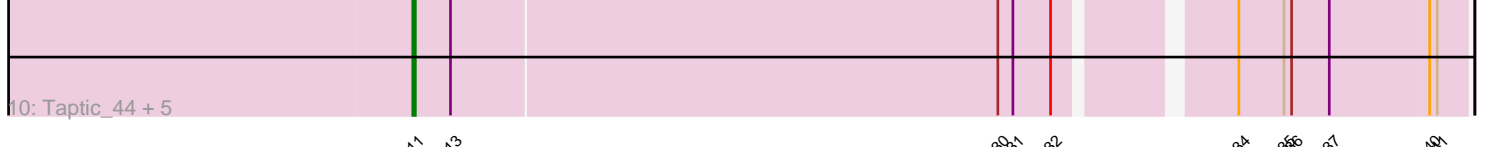
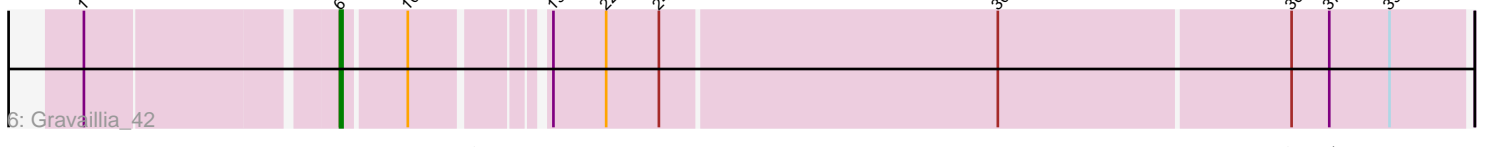
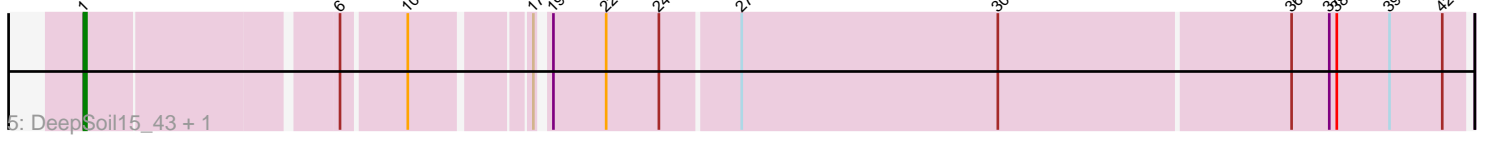
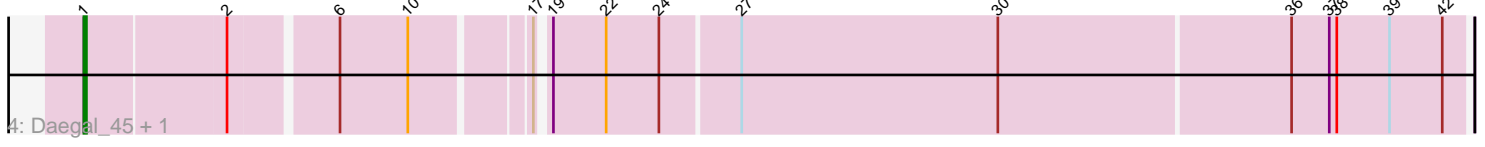
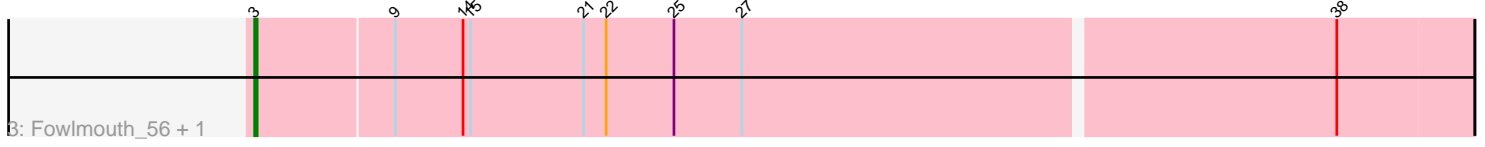
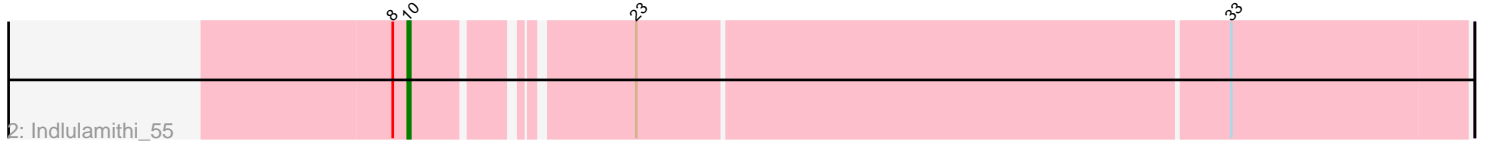


Pham 296891



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 296891 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296891 has 25 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Cuke_52
- Track 2 : Indlulamithi_55
- Track 3 : Fowlmouth_56, MrMiyagi_55
- Track 4 : Daegal_45, Gancho_42
- Track 5 : DeepSoil15_43, Wishmaker_41
- Track 6 : Gravaillia_42
- Track 7 : Yelo_55, Nilo_57, Zenon_56, Send513_56, MontyDev_56, Riparian_57
- Track 8 : Papyrus_56
- Track 9 : Candle_55
- Track 10 : Taptic_44, Argie_45, Cepens_44, D12_43, PR_44, Megabear_44
- Track 11 : GodPhather_45, Jeon_44

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 8 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Argie_45, Cepens_44, D12_43, GodPhather_45, Jeon_44, Megabear_44, PR_44, Taptic_44,

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

-

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

- Candle_55, Cuke_52, Daegal_45, DeepSoil15_43, Fowlmouth_56, Gancho_42, Gravaillia_42, Indlulamithi_55, MontyDev_56, MrMiyagi_55, Nilo_57, Papyrus_56, Riparian_57, Send513_56, Wishmaker_41, Yelo_55, Zenon_56,

Summary by start number:

Start 1:

- Found in 5 of 25 (20.0%) of genes in pham
- Manual Annotations of this start: 4 of 24

- Called 80.0% of time when present
- Phage (with cluster) where this start called: Daegal_45 (Q), DeepSoil15_43 (Q), Gancho_42 (Q), Wishmaker_41 (Q),

Start 3:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fowlmouth_56 (AC), MrMiyagi_55 (AC),

Start 4:

- Found in 7 of 25 (28.0%) of genes in pham
- Manual Annotations of this start: 6 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle_55 (R), MontyDev_56 (R), Nilo_57 (R), Riparian_57 (R), Send513_56 (R), Yelo_55 (R), Zenon_56 (R),

Start 5:

- Found in 1 of 25 (4.0%) 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: Cuke_52 (AC),

Start 6:

- Found in 5 of 25 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Gravallia_42 (Q),

Start 7:

- Found in 8 of 25 (32.0%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Papyrus_56 (R),

Start 10:

- Found in 6 of 25 (24.0%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Indlulamithi_55 (AC),

Start 11:

- Found in 8 of 25 (32.0%) of genes in pham
- Manual Annotations of this start: 8 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_45 (W), Cepens_44 (W), D12_43 (W), GodPhather_45 (W), Jeon_44 (W), Megabear_44 (W), PR_44 (W), Taptic_44 (W),

Summary by clusters:

There are 4 clusters represented in this pham: Q, AC, R, W,

Info for manual annotations of cluster AC:

- Start number 3 was manually annotated 2 times for cluster AC.
- Start number 5 was manually annotated 1 time for cluster AC.
- Start number 10 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster Q:

- Start number 1 was manually annotated 4 times for cluster Q.
- Start number 6 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster R:

- Start number 4 was manually annotated 6 times for cluster R.
- Start number 7 was manually annotated 1 time for cluster R.

Info for manual annotations of cluster W:

- Start number 11 was manually annotated 8 times for cluster W.

Gene Information:

Gene: Argie_45 Start: 40492, Stop: 40893, Start Num: 11

Candidate Starts for Argie_45:

(Start: 11 @40492 has 8 MA's), (13, 40507), (30, 40723), (31, 40729), (32, 40744), (34, 40804), (35, 40822), (36, 40825), (37, 40840), (40, 40879), (41, 40882),

Gene: Candle_55 Start: 42652, Stop: 43122, Start Num: 4

Candidate Starts for Candle_55:

(Start: 4 @42652 has 6 MA's), (Start: 7 @42691 has 1 MA's), (12, 42721), (15, 42733), (16, 42745), (18, 42760), (20, 42766), (26, 42817), (29, 42931), (32, 42961), (35, 43051), (36, 43054),

Gene: Cepens_44 Start: 40207, Stop: 40608, Start Num: 11

Candidate Starts for Cepens_44:

(Start: 11 @40207 has 8 MA's), (13, 40222), (30, 40438), (31, 40444), (32, 40459), (34, 40519), (35, 40537), (36, 40540), (37, 40555), (40, 40594), (41, 40597),

Gene: Cuke_52 Start: 36064, Stop: 36516, Start Num: 5

Candidate Starts for Cuke_52:

(Start: 5 @36064 has 1 MA's), (9, 36106), (14, 36133), (16, 36148), (21, 36181), (22, 36190), (25, 36217), (27, 36244), (28, 36277), (37, 36463), (39, 36487), (40, 36502),

Gene: D12_43 Start: 40755, Stop: 41156, Start Num: 11

Candidate Starts for D12_43:

(Start: 11 @40755 has 8 MA's), (13, 40770), (30, 40986), (31, 40992), (32, 41007), (34, 41067), (35, 41085), (36, 41088), (37, 41103), (40, 41142), (41, 41145),

Gene: Daegal_45 Start: 33993, Stop: 33472, Start Num: 1

Candidate Starts for Daegal_45:

(Start: 1 @33993 has 4 MA's), (2, 33939), (Start: 6 @33900 has 1 MA's), (Start: 10 @33873 has 1 MA's), (17, 33831), (19, 33828), (22, 33807), (24, 33786), (27, 33756), (30, 33654), (36, 33540), (37, 33525), (38, 33522), (39, 33501), (42, 33480),

Gene: DeepSoil15_43 Start: 33409, Stop: 32891, Start Num: 1

Candidate Starts for DeepSoil15_43:

(Start: 1 @33409 has 4 MA's), (Start: 6 @33316 has 1 MA's), (Start: 10 @33292 has 1 MA's), (17, 33250), (19, 33247), (22, 33226), (24, 33205), (27, 33175), (30, 33073), (36, 32959), (37, 32944), (38, 32941), (39, 32920), (42, 32899),

Gene: Fowlmouth_56 Start: 39448, Stop: 39924, Start Num: 3

Candidate Starts for Fowlmouth_56:

(Start: 3 @39448 has 2 MA's), (9, 39502), (14, 39529), (15, 39532), (21, 39577), (22, 39586), (25, 39613), (27, 39640), (38, 39871),

Gene: Gancho_42 Start: 33132, Stop: 32614, Start Num: 1

Candidate Starts for Gancho_42:

(Start: 1 @33132 has 4 MA's), (2, 33078), (Start: 6 @33039 has 1 MA's), (Start: 10 @33015 has 1 MA's), (17, 32973), (19, 32970), (22, 32949), (24, 32928), (27, 32898), (30, 32796), (36, 32682), (37, 32667), (38, 32664), (39, 32643), (42, 32622),

Gene: GodPhather_45 Start: 40971, Stop: 41372, Start Num: 11

Candidate Starts for GodPhather_45:

(Start: 11 @40971 has 8 MA's), (13, 40986), (30, 41202), (31, 41208), (32, 41223), (34, 41283), (35, 41301), (36, 41304), (37, 41319), (40, 41358), (41, 41361),

Gene: Gravaillia_42 Start: 33359, Stop: 32934, Start Num: 6

Candidate Starts for Gravaillia_42:

(Start: 1 @33452 has 4 MA's), (Start: 6 @33359 has 1 MA's), (Start: 10 @33335 has 1 MA's), (19, 33290), (22, 33269), (24, 33248), (30, 33116), (36, 33002), (37, 32987), (39, 32963),

Gene: Indlulamithi_55 Start: 41815, Stop: 42213, Start Num: 10

Candidate Starts for Indlulamithi_55:

(8, 41809), (Start: 10 @41815 has 1 MA's), (23, 41890), (33, 42121),

Gene: Jeon_44 Start: 40713, Stop: 41114, Start Num: 11

Candidate Starts for Jeon_44:

(Start: 11 @40713 has 8 MA's), (13, 40728), (30, 40944), (31, 40950), (32, 40965), (34, 41025), (35, 41043), (36, 41046), (37, 41061), (40, 41100), (41, 41103),

Gene: Megabear_44 Start: 40128, Stop: 40529, Start Num: 11

Candidate Starts for Megabear_44:

(Start: 11 @40128 has 8 MA's), (13, 40143), (30, 40359), (31, 40365), (32, 40380), (34, 40440), (35, 40458), (36, 40461), (37, 40476), (40, 40515), (41, 40518),

Gene: MontyDev_56 Start: 42299, Stop: 42769, Start Num: 4

Candidate Starts for MontyDev_56:

(Start: 4 @42299 has 6 MA's), (Start: 7 @42338 has 1 MA's), (12, 42368), (15, 42380), (16, 42392), (18, 42407), (20, 42413), (26, 42464), (29, 42578), (32, 42608), (35, 42698), (36, 42701), (37, 42716),

Gene: MrMiyagi_55 Start: 39832, Stop: 40308, Start Num: 3

Candidate Starts for MrMiyagi_55:

(Start: 3 @39832 has 2 MA's), (9, 39886), (14, 39913), (15, 39916), (21, 39961), (22, 39970), (25, 39997), (27, 40024), (38, 40255),

Gene: Nilo_57 Start: 42651, Stop: 43121, Start Num: 4

Candidate Starts for Nilo_57:

(Start: 4 @42651 has 6 MA's), (Start: 7 @42690 has 1 MA's), (12, 42720), (15, 42732), (16, 42744), (18, 42759), (20, 42765), (26, 42816), (29, 42930), (32, 42960), (35, 43050), (36, 43053), (37, 43068),

Gene: PR_44 Start: 40732, Stop: 41133, Start Num: 11

Candidate Starts for PR_44:

(Start: 11 @40732 has 8 MA's), (13, 40747), (30, 40963), (31, 40969), (32, 40984), (34, 41044), (35, 41062), (36, 41065), (37, 41080), (40, 41119), (41, 41122),

Gene: Papyrus_56 Start: 42546, Stop: 42977, Start Num: 7

Candidate Starts for Papyrus_56:

(Start: 7 @42546 has 1 MA's), (12, 42576), (15, 42588), (16, 42600), (20, 42621), (26, 42672), (29, 42786), (32, 42816), (35, 42906), (36, 42909), (37, 42924),

Gene: Riparian_57 Start: 42099, Stop: 42569, Start Num: 4

Candidate Starts for Riparian_57:

(Start: 4 @42099 has 6 MA's), (Start: 7 @42138 has 1 MA's), (12, 42168), (15, 42180), (16, 42192), (18, 42207), (20, 42213), (26, 42264), (29, 42378), (32, 42408), (35, 42498), (36, 42501), (37, 42516),

Gene: Send513_56 Start: 42632, Stop: 43102, Start Num: 4

Candidate Starts for Send513_56:

(Start: 4 @42632 has 6 MA's), (Start: 7 @42671 has 1 MA's), (12, 42701), (15, 42713), (16, 42725), (18, 42740), (20, 42746), (26, 42797), (29, 42911), (32, 42941), (35, 43031), (36, 43034), (37, 43049),

Gene: Taptic_44 Start: 40128, Stop: 40529, Start Num: 11

Candidate Starts for Taptic_44:

(Start: 11 @40128 has 8 MA's), (13, 40143), (30, 40359), (31, 40365), (32, 40380), (34, 40440), (35, 40458), (36, 40461), (37, 40476), (40, 40515), (41, 40518),

Gene: Wishmaker_41 Start: 33409, Stop: 32891, Start Num: 1

Candidate Starts for Wishmaker_41:

(Start: 1 @33409 has 4 MA's), (Start: 6 @33316 has 1 MA's), (Start: 10 @33292 has 1 MA's), (17, 33250), (19, 33247), (22, 33226), (24, 33205), (27, 33175), (30, 33073), (36, 32959), (37, 32944), (38, 32941), (39, 32920), (42, 32899),

Gene: Yelo_55 Start: 42715, Stop: 43185, Start Num: 4

Candidate Starts for Yelo_55:

(Start: 4 @42715 has 6 MA's), (Start: 7 @42754 has 1 MA's), (12, 42784), (15, 42796), (16, 42808), (18, 42823), (20, 42829), (26, 42880), (29, 42994), (32, 43024), (35, 43114), (36, 43117), (37, 43132),

Gene: Zenon_56 Start: 42661, Stop: 43131, Start Num: 4

Candidate Starts for Zenon_56:

(Start: 4 @42661 has 6 MA's), (Start: 7 @42700 has 1 MA's), (12, 42730), (15, 42742), (16, 42754), (18, 42769), (20, 42775), (26, 42826), (29, 42940), (32, 42970), (35, 43060), (36, 43063), (37, 43078),