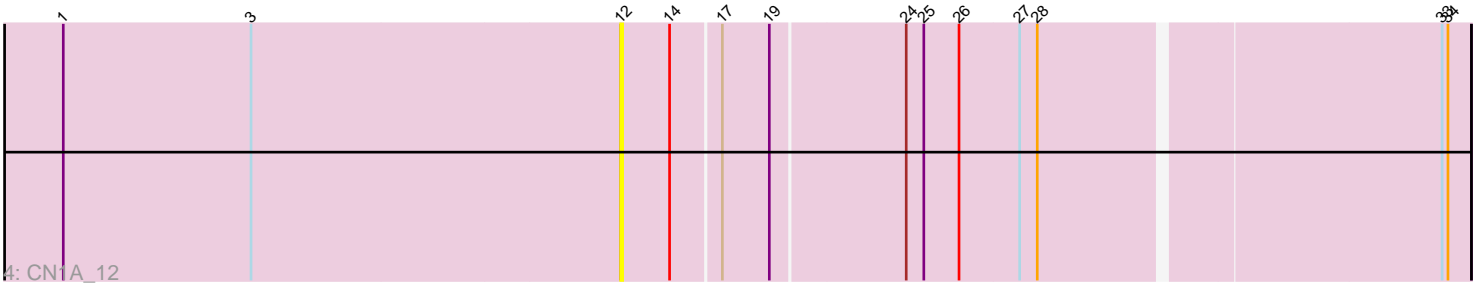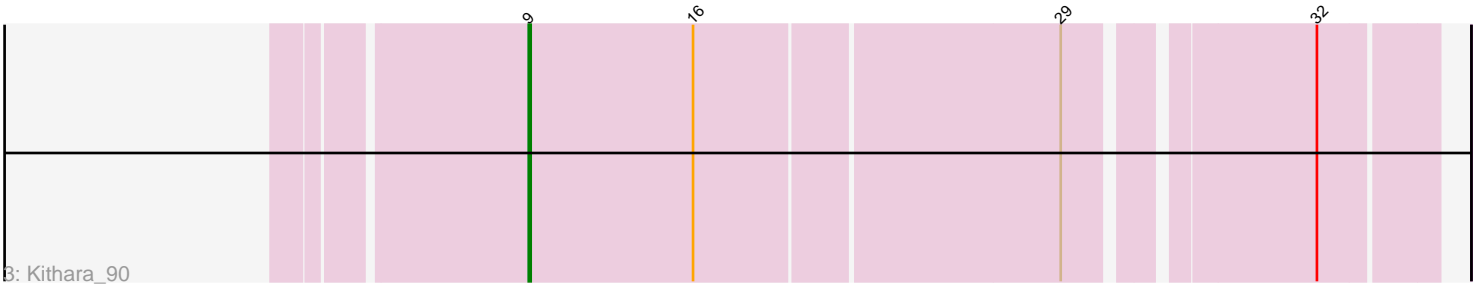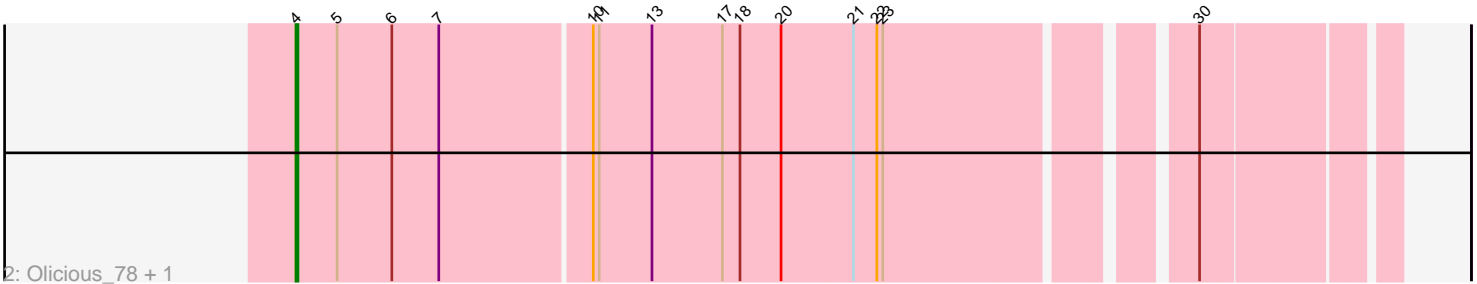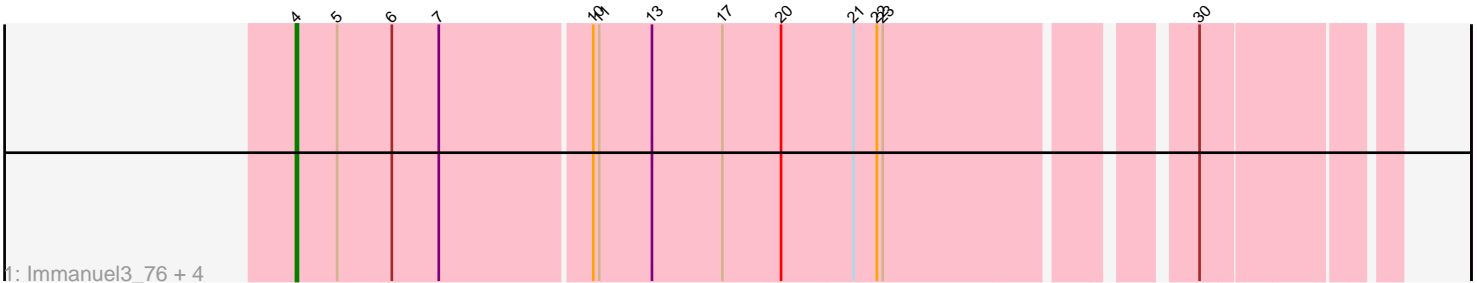# Pham 281127

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 281127 Report

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

Pham number 281127 has 10 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Immanuel3_76, Percastrophe_78, HaugeAnator_78, ToriToki_78, ZooBear_78
• Track 2 : Olicious_78, Romero_78
• Track 3 : Kithara_90
• Track 4 : CN1A_12
• Track 5 : Yappy_107

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• HaugeAnator_78, Immanuel3_76, Olicious_78, Percastrophe_78, Romero_78, ToriToki_78, ZooBear_78,

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

Genes that do not have the "Most Annotated" start:
• CN1A_12, Kithara_90, Yappy_107,

Summary by start number:

Start 4:
• Found in 7 of 10 (70.0%) of genes in pham
• Manual Annotations of this start: 7 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: HaugeAnator_78 (BF), Immanuel3_76 (BF), Olicious_78 (BF), Percastrophe_78 (BF), Romero_78 (BF), ToriToki_78 (BF), ZooBear_78 (BF),

Start 8:
• Found in 1 of 10 (10.0%) of genes in pham

- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yappy_107 (singleton),

Start 9:
- Found in 1 of 10 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kithara_90 (singleton),

Start 12:
- Found in 1 of 10 (10.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CN1A_12 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: BF, singleton,

Info for manual annotations of cluster BF:
•Start number 4 was manually annotated 7 times for cluster BF.

Gene Information:

Gene: CN1A_12 Start: 5964, Stop: 6377, Start Num: 12
Candidate Starts for CN1A_12:
(1, 5682), (3, 5778), (12, 5964), (14, 5988), (17, 6012), (19, 6036), (24, 6102), (25, 6111), (26, 6129),
(27, 6159), (28, 6168), (33, 6363), (34, 6366),

Gene: HaugeAnator_78 Start: 40177, Stop: 39656, Start Num: 4
Candidate Starts for HaugeAnator_78:
(Start: 4 @40177 has 7 MA's), (5, 40156), (6, 40129), (7, 40105), (10, 40030), (11, 40027), (13, 40000),
(17, 39964), (20, 39934), (21, 39898), (22, 39886), (23, 39883), (30, 39745),

Gene: Immanuel3_76 Start: 40182, Stop: 39661, Start Num: 4
Candidate Starts for Immanuel3_76:
(Start: 4 @40182 has 7 MA's), (5, 40161), (6, 40134), (7, 40110), (10, 40035), (11, 40032), (13, 40005),
(17, 39969), (20, 39939), (21, 39903), (22, 39891), (23, 39888), (30, 39750),

Gene: Kithara_90 Start: 59830, Stop: 59399, Start Num: 9
Candidate Starts for Kithara_90:
(Start: 9 @59830 has 1 MA's), (16, 59746), (29, 59566), (32, 59455),

Gene: Olicious_78 Start: 40180, Stop: 39659, Start Num: 4
Candidate Starts for Olicious_78:
(Start: 4 @40180 has 7 MA's), (5, 40159), (6, 40132), (7, 40108), (10, 40033), (11, 40030), (13, 40003),
(17, 39967), (18, 39958), (20, 39937), (21, 39901), (22, 39889), (23, 39886), (30, 39748),

Gene: Percastrophe_78 Start: 40112, Stop: 39591, Start Num: 4
Candidate Starts for Percastrophe_78:

(Start: 4 @40112 has 7 MA's), (5, 40091), (6, 40064), (7, 40040), (10, 39965), (11, 39962), (13, 39935), (17, 39899), (20, 39869), (21, 39833), (22, 39821), (23, 39818), (30, 39680),

Gene: Romero_78 Start: 40173, Stop: 39652, Start Num: 4
Candidate Starts for Romero_78:
(Start: 4 @40173 has 7 MA's), (5, 40152), (6, 40125), (7, 40101), (10, 40026), (11, 40023), (13, 39996), (17, 39960), (18, 39951), (20, 39930), (21, 39894), (22, 39882), (23, 39879), (30, 39741),

Gene: ToriToki_78 Start: 40176, Stop: 39655, Start Num: 4
Candidate Starts for ToriToki_78:
(Start: 4 @40176 has 7 MA's), (5, 40155), (6, 40128), (7, 40104), (10, 40029), (11, 40026), (13, 39999), (17, 39963), (20, 39933), (21, 39897), (22, 39885), (23, 39882), (30, 39744),

Gene: Yappy_107 Start: 55269, Stop: 54802, Start Num: 8
Candidate Starts for Yappy_107:
(2, 55377), (Start: 8 @55269 has 1 MA's), (15, 55164), (31, 54900),

Gene: ZooBear_78 Start: 40177, Stop: 39656, Start Num: 4
Candidate Starts for ZooBear_78:
(Start: 4 @40177 has 7 MA's), (5, 40156), (6, 40129), (7, 40105), (10, 40030), (11, 40027), (13, 40000), (17, 39964), (20, 39934), (21, 39898), (22, 39886), (23, 39883), (30, 39745),