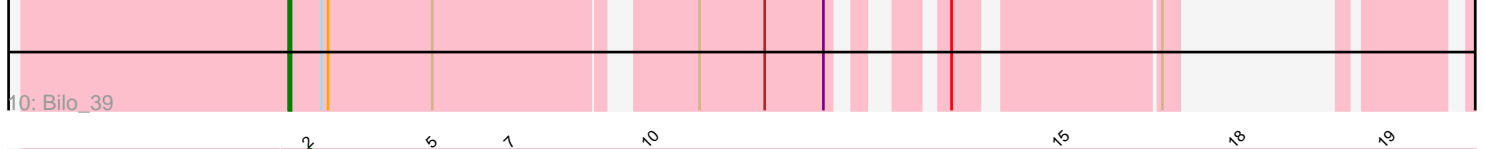
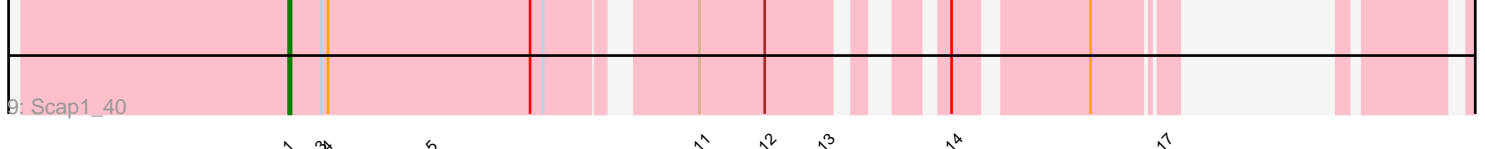
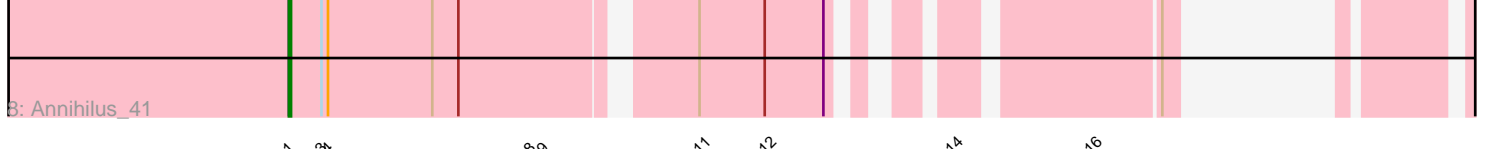
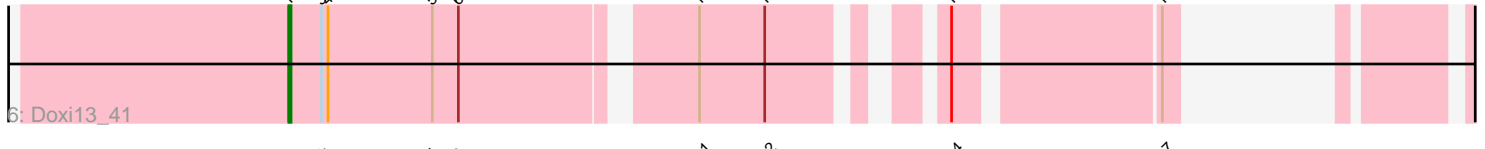
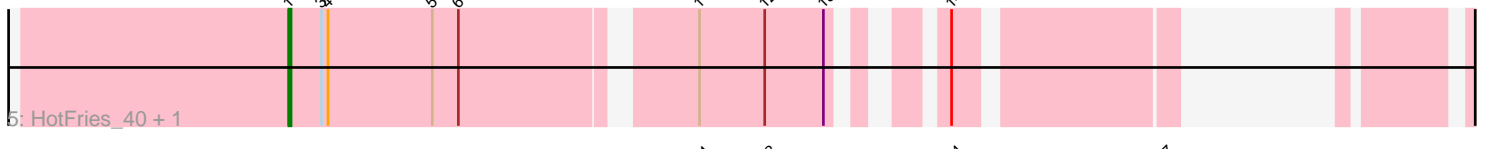
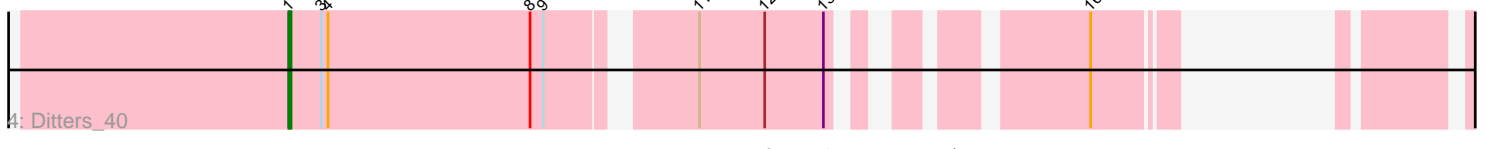
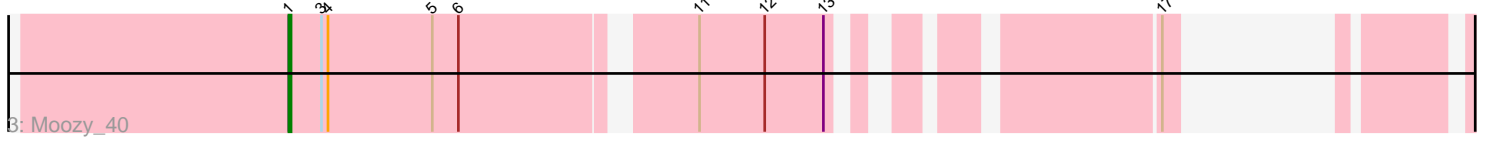
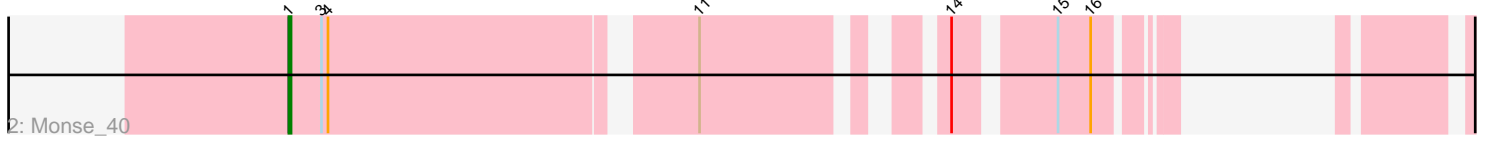
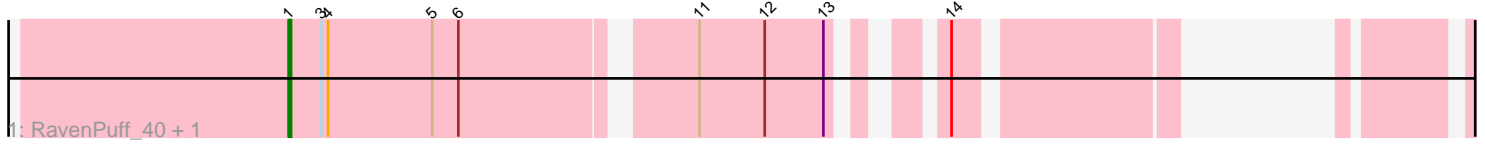


Zoomed Pham 297084



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 297084 Report

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

Pham number 297084 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : RavenPuff_40, PherryCruz_40
- Track 2 : Monse_40
- Track 3 : Moozy_40
- Track 4 : Ditters_40
- Track 5 : HotFries_40, SheRa_41
- Track 6 : Doxi13_41
- Track 7 : GoblinVoyage_41, Sangak_39
- Track 8 : Annihilus_41
- Track 9 : Scap1_40
- Track 10 : Bilo_39
- Track 11 : RosaAsantewaa_37

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

The start number called the most often in the published annotations is 1, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annihilus_41, Bilo_39, Ditters_40, Doxi13_41, GoblinVoyage_41, HotFries_40, Monse_40, Moozy_40, PherryCruz_40, RavenPuff_40, Sangak_39, Scap1_40, SheRa_41,

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

-

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

- RosaAsantewaa_37,

Summary by start number:

Start 1:

- Found in 13 of 14 (92.9%) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Annihilus_41 (BI2), Bilo_39 (BI2), Ditters_40 (BI2), Doxi13_41 (BI2), GoblinVoyage_41 (BI2), HotFries_40 (BI2), Monse_40 (BI2), Moozy_40 (BI2), PherryCruz_40 (BI2), RavenPuff_40 (BI2), Sangak_39 (BI2), Scap1_40 (BI2), SheRa_41 (BI2),

Start 2:

- Found in 1 of 14 (7.1%) 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: RosaAsantewaa_37 (BI2),

Summary by clusters:

There is one cluster represented in this pham: BI2

Info for manual annotations of cluster BI2:

- Start number 1 was manually annotated 12 times for cluster BI2.
- Start number 2 was manually annotated 1 time for cluster BI2.

Gene Information:

Gene: Annihilus_41 Start: 29092, Stop: 29790, Start Num: 1

Candidate Starts for Annihilus_41:

(Start: 1 @29092 has 12 MA's), (3, 29107), (4, 29110), (5, 29158), (6, 29170), (11, 29266), (12, 29296), (13, 29323), (17, 29437), (20, 29500), (26, 29683), (27, 29695), (28, 29704), (29, 29725),

Gene: Bilo_39 Start: 29209, Stop: 29907, Start Num: 1

Candidate Starts for Bilo_39:

(Start: 1 @29209 has 12 MA's), (3, 29224), (4, 29227), (5, 29275), (11, 29383), (12, 29413), (13, 29440), (14, 29470), (17, 29554), (26, 29800), (27, 29812), (29, 29842), (30, 29854),

Gene: Ditters_40 Start: 29545, Stop: 30240, Start Num: 1

Candidate Starts for Ditters_40:

(Start: 1 @29545 has 12 MA's), (3, 29560), (4, 29563), (8, 29656), (9, 29662), (11, 29719), (12, 29749), (13, 29776), (16, 29860), (20, 29950), (21, 30004), (26, 30133), (27, 30145), (29, 30175), (30, 30187),

Gene: Doxi13_41 Start: 29065, Stop: 29763, Start Num: 1

Candidate Starts for Doxi13_41:

(Start: 1 @29065 has 12 MA's), (3, 29080), (4, 29083), (5, 29131), (6, 29143), (11, 29239), (12, 29269), (14, 29326), (17, 29410), (20, 29473), (26, 29656), (27, 29668), (29, 29698), (30, 29710),

Gene: GoblinVoyage_41 Start: 29065, Stop: 29763, Start Num: 1

Candidate Starts for GoblinVoyage_41:

(Start: 1 @29065 has 12 MA's), (3, 29080), (4, 29083), (5, 29131), (6, 29143), (11, 29239), (12, 29269), (14, 29326), (17, 29410), (20, 29473), (26, 29656), (27, 29668), (29, 29698),

Gene: HotFries_40 Start: 29110, Stop: 29808, Start Num: 1

Candidate Starts for HotFries_40:

(Start: 1 @29110 has 12 MA's), (3, 29125), (4, 29128), (5, 29176), (6, 29188), (11, 29284), (12, 29314), (13, 29341), (14, 29371), (20, 29518), (26, 29701), (27, 29713), (28, 29722), (29, 29743), (30, 29755),

Gene: Monse_40 Start: 28988, Stop: 29677, Start Num: 1

Candidate Starts for Monse_40:

(Start: 1 @28988 has 12 MA's), (3, 29003), (4, 29006), (11, 29162), (14, 29249), (15, 29288), (16, 29303), (21, 29441), (26, 29570), (27, 29582), (29, 29612),

Gene: Moozy_40 Start: 29067, Stop: 29765, Start Num: 1

Candidate Starts for Moozy_40:

(Start: 1 @29067 has 12 MA's), (3, 29082), (4, 29085), (5, 29133), (6, 29145), (11, 29241), (12, 29271), (13, 29298), (17, 29412), (20, 29475), (26, 29658), (27, 29670), (28, 29679), (29, 29700),

Gene: PherryCruz_40 Start: 29061, Stop: 29759, Start Num: 1

Candidate Starts for PherryCruz_40:

(Start: 1 @29061 has 12 MA's), (3, 29076), (4, 29079), (5, 29127), (6, 29139), (11, 29235), (12, 29265), (13, 29292), (14, 29322), (20, 29469), (26, 29652), (27, 29664), (28, 29673), (29, 29694),

Gene: RavenPuff_40 Start: 29061, Stop: 29759, Start Num: 1

Candidate Starts for RavenPuff_40:

(Start: 1 @29061 has 12 MA's), (3, 29076), (4, 29079), (5, 29127), (6, 29139), (11, 29235), (12, 29265), (13, 29292), (14, 29322), (20, 29469), (26, 29652), (27, 29664), (28, 29673), (29, 29694),

Gene: RosaAsantewaa_37 Start: 28089, Stop: 28907, Start Num: 2

Candidate Starts for RosaAsantewaa_37:

(Start: 2 @28089 has 1 MA's), (5, 28146), (7, 28182), (10, 28245), (15, 28434), (18, 28515), (19, 28584), (22, 28713), (23, 28737), (24, 28752), (29, 28845), (30, 28857), (31, 28890),

Gene: Sangak_39 Start: 28619, Stop: 29317, Start Num: 1

Candidate Starts for Sangak_39:

(Start: 1 @28619 has 12 MA's), (3, 28634), (4, 28637), (5, 28685), (6, 28697), (11, 28793), (12, 28823), (14, 28880), (17, 28964), (20, 29027), (26, 29210), (27, 29222), (29, 29252),

Gene: Scap1_40 Start: 28953, Stop: 29648, Start Num: 1

Candidate Starts for Scap1_40:

(Start: 1 @28953 has 12 MA's), (3, 28968), (4, 28971), (8, 29064), (9, 29070), (11, 29127), (12, 29157), (14, 29214), (16, 29268), (20, 29358), (21, 29412), (25, 29496), (26, 29541), (27, 29553), (29, 29583), (30, 29595),

Gene: SheRa_41 Start: 29108, Stop: 29806, Start Num: 1

Candidate Starts for SheRa_41:

(Start: 1 @29108 has 12 MA's), (3, 29123), (4, 29126), (5, 29174), (6, 29186), (11, 29282), (12, 29312), (13, 29339), (14, 29369), (20, 29516), (26, 29699), (27, 29711), (28, 29720), (29, 29741), (30, 29753),