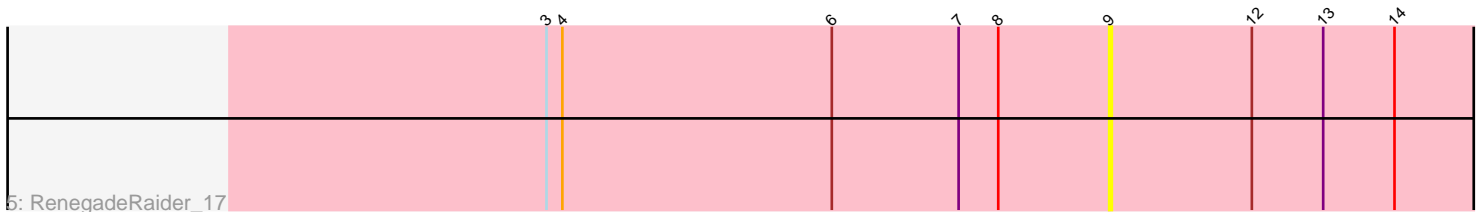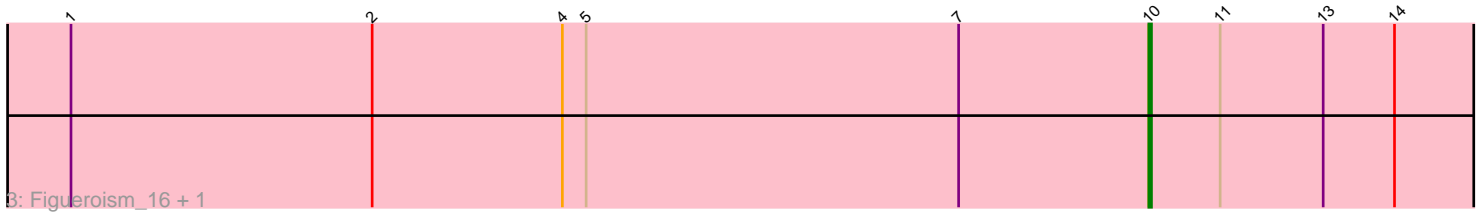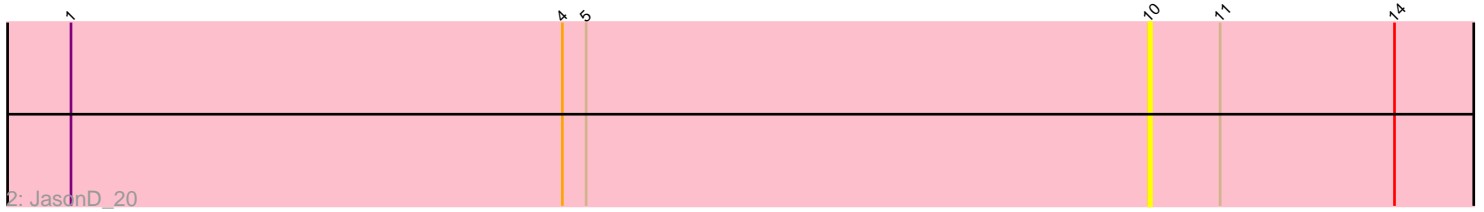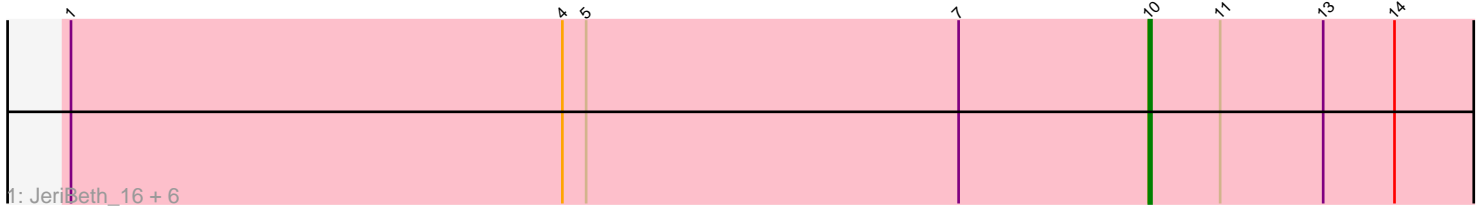# Pham 207274

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 207274 Report

This analysis was run 02/22/25 on database version 588.

Pham number 207274 has 18 members, 14 are drafts.

Phages represented in each track:
• Track 1 : JeriBeth_16, Exploradora_16, Delphidian_16, KingJulien_16, Symere_16, JasperRussell_16, RosieMae_16
• Track 2 : JasonD_20
• Track 3 : Figueroism_16, ShaiHulud_16
• Track 4 : PSirce_14, Finny_15, Phanita_14
• Track 5 : RenegadeRaider_17
• Track 6 : BaronJohn_18, LilTerminator_18, Wardwill_19
• Track 7 : TwoBits_16

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 4 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Delphidian_16, Exploradora_16, Figueroism_16, Finny_15, JasonD_20, JasperRussell_16, JeriBeth_16, KingJulien_16, PSirce_14, Phanita_14, RosieMae_16, ShaiHulud_16, Symere_16,

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

Genes that do not have the "Most Annotated" start:
• BaronJohn_18, LilTerminator_18, RenegadeRaider_17, TwoBits_16, Wardwill_19,

Summary by start number:

Start 9:
• Found in 5 of 18 (27.8%) of genes in pham
• No Manual Annotations of this start.
• Called 40.0% of time when present
• Phage (with cluster) where this start called: RenegadeRaider_17 (EA4), TwoBits_16 (EA5),

Start 10:
• Found in 13 of 18 (72.2%) of genes in pham
• Manual Annotations of this start: 4 of 4
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Delphidian_16 (EA1), Exploradora_16 (UNK), Figueroism_16 (EA1), Finny_15 (EA2), JasonD_20 (EA1), JasperRussell_16 (EA1), JeriBeth_16 (EA1), KingJulien_16 (EA1), PSirce_14 (EA2), Phanita_14 (EA2), RosieMae_16 (EA1), ShaiHulud_16 (EA1), Symere_16 (EA1),

Start 12:
• Found in 4 of 18 (22.2%) of genes in pham
• No Manual Annotations of this start.
• Called 75.0% of time when present
• Phage (with cluster) where this start called: BaronJohn_18 (EA5), LilTerminator_18 (EA5), Wardwill_19 (EA5),

Summary by clusters:

There are 5 clusters represented in this pham: EA1, UNK, EA2, EA5, EA4,

Info for manual annotations of cluster EA1:
•Start number 10 was manually annotated 3 times for cluster EA1.

Info for manual annotations of cluster EA2:
•Start number 10 was manually annotated 1 time for cluster EA2.

Gene Information:
Gene: BaronJohn_18 Start: 9736, Stop: 9849, Start Num: 12
Candidate Starts for BaronJohn_18:
(4, 9475), (5, 9484), (9, 9682), (12, 9736), (14, 9790),

Gene: Delphidian_16 Start: 9187, Stop: 9336, Start Num: 10
Candidate Starts for Delphidian_16:
(1, 8779), (4, 8965), (5, 8974), (7, 9115), (Start: 10 @9187 has 4 MA's), (11, 9214), (13, 9253), (14, 9280),

Gene: Exploradora_16 Start: 9480, Stop: 9629, Start Num: 10
Candidate Starts for Exploradora_16:
(1, 9072), (4, 9258), (5, 9267), (7, 9408), (Start: 10 @9480 has 4 MA's), (11, 9507), (13, 9546), (14, 9573),

Gene: Figueroism_16 Start: 9176, Stop: 9325, Start Num: 10
Candidate Starts for Figueroism_16:
(1, 8768), (2, 8882), (4, 8954), (5, 8963), (7, 9104), (Start: 10 @9176 has 4 MA's), (11, 9203), (13, 9242), (14, 9269),

Gene: Finny_15 Start: 9257, Stop: 9412, Start Num: 10

Candidate Starts for Finny_15:
(4, 9035), (6, 9137), (7, 9185), (Start: 10 @9257 has 4 MA's), (11, 9284), (14, 9350),

Gene: JasonD_20 Start: 9613, Stop: 9765, Start Num: 10
Candidate Starts for JasonD_20:
(1, 9205), (4, 9391), (5, 9400), (Start: 10 @9613 has 4 MA's), (11, 9640), (14, 9706),

Gene: JasperRussell_16 Start: 9480, Stop: 9629, Start Num: 10
Candidate Starts for JasperRussell_16:
(1, 9072), (4, 9258), (5, 9267), (7, 9408), (Start: 10 @9480 has 4 MA's), (11, 9507), (13, 9546), (14, 9573),

Gene: JeriBeth_16 Start: 9327, Stop: 9476, Start Num: 10
Candidate Starts for JeriBeth_16:
(1, 8919), (4, 9105), (5, 9114), (7, 9255), (Start: 10 @9327 has 4 MA's), (11, 9354), (13, 9393), (14, 9420),

Gene: KingJulien_16 Start: 9588, Stop: 9737, Start Num: 10
Candidate Starts for KingJulien_16:
(1, 9180), (4, 9366), (5, 9375), (7, 9516), (Start: 10 @9588 has 4 MA's), (11, 9615), (13, 9654), (14, 9681),

Gene: LilTerminator_18 Start: 9745, Stop: 9858, Start Num: 12
Candidate Starts for LilTerminator_18:
(4, 9484), (5, 9493), (9, 9691), (12, 9745), (14, 9799),

Gene: PSirce_14 Start: 9273, Stop: 9428, Start Num: 10
Candidate Starts for PSirce_14:
(4, 9051), (6, 9153), (7, 9201), (Start: 10 @9273 has 4 MA's), (11, 9300), (14, 9366),

Gene: Phanita_14 Start: 9256, Stop: 9411, Start Num: 10
Candidate Starts for Phanita_14:
(4, 9034), (6, 9136), (7, 9184), (Start: 10 @9256 has 4 MA's), (11, 9283), (14, 9349),

Gene: RenegadeRaider_17 Start: 9401, Stop: 9568, Start Num: 9
Candidate Starts for RenegadeRaider_17:
(3, 9188), (4, 9194), (6, 9296), (7, 9344), (8, 9359), (9, 9401), (12, 9455), (13, 9482), (14, 9509),

Gene: RosieMae_16 Start: 9480, Stop: 9629, Start Num: 10
Candidate Starts for RosieMae_16:
(1, 9072), (4, 9258), (5, 9267), (7, 9408), (Start: 10 @9480 has 4 MA's), (11, 9507), (13, 9546), (14, 9573),

Gene: ShaiHulud_16 Start: 9188, Stop: 9337, Start Num: 10
Candidate Starts for ShaiHulud_16:
(1, 8780), (2, 8894), (4, 8966), (5, 8975), (7, 9116), (Start: 10 @9188 has 4 MA's), (11, 9215), (13, 9254), (14, 9281),

Gene: Symere_16 Start: 9480, Stop: 9629, Start Num: 10
Candidate Starts for Symere_16:
(1, 9072), (4, 9258), (5, 9267), (7, 9408), (Start: 10 @9480 has 4 MA's), (11, 9507), (13, 9546), (14, 9573),

Gene: TwoBits_16 Start: 9488, Stop: 9655, Start Num: 9
Candidate Starts for TwoBits_16:
(4, 9281), (5, 9290), (9, 9488), (14, 9596),

Gene: Wardwill_19 Start: 9907, Stop: 10020, Start Num: 12
Candidate Starts for Wardwill_19:
(4, 9646), (5, 9655), (9, 9853), (12, 9907), (14, 9961),