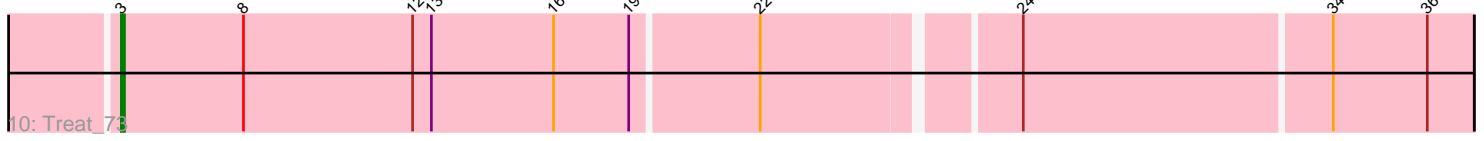
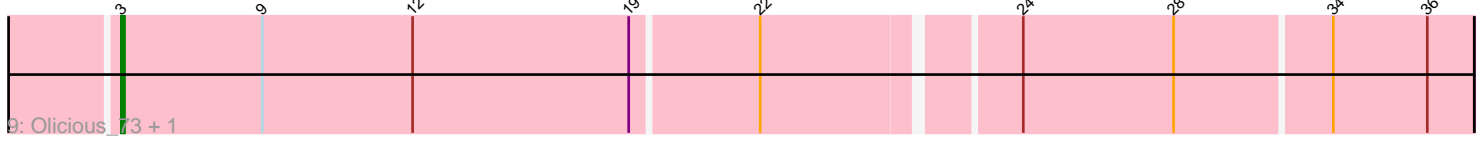
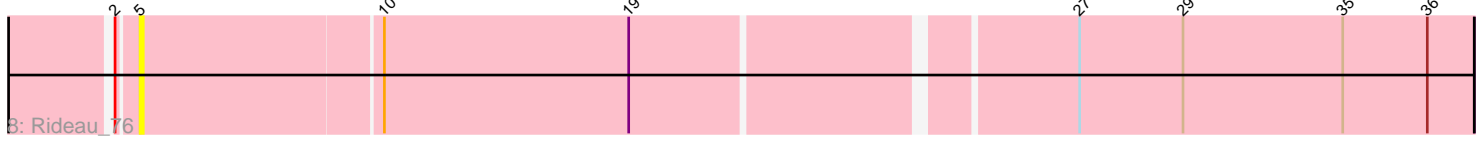
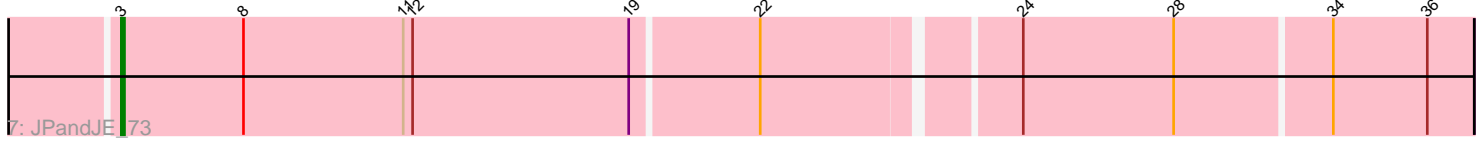
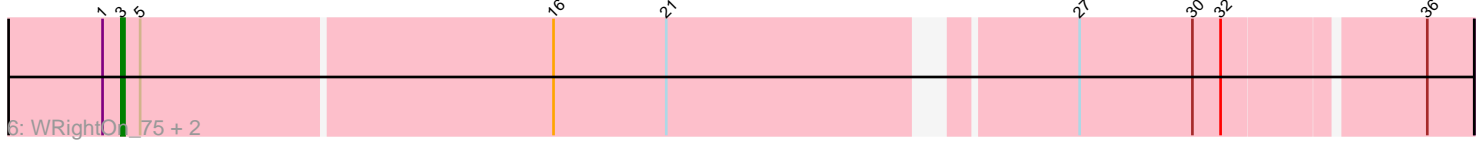
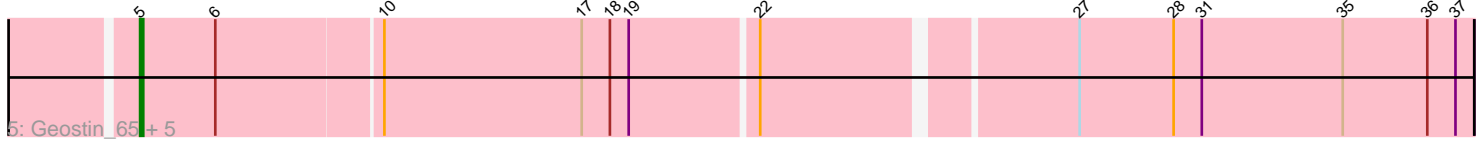
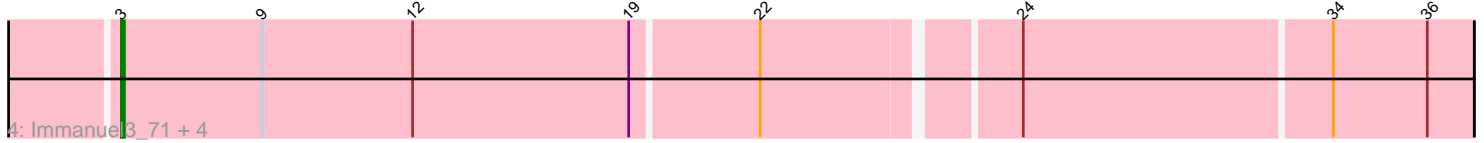
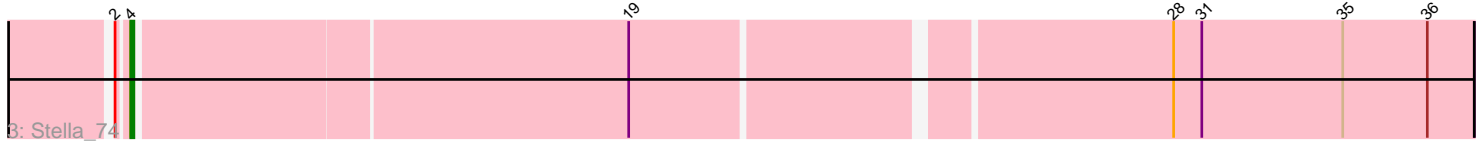
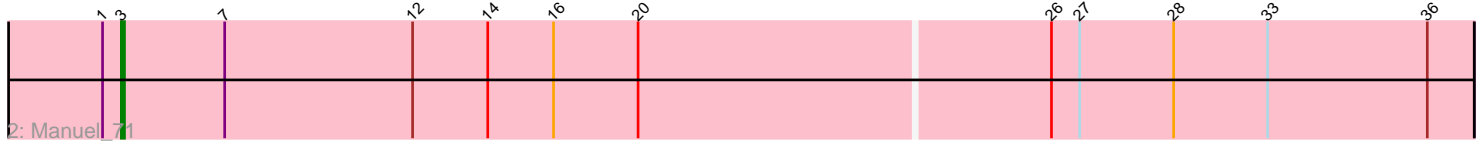
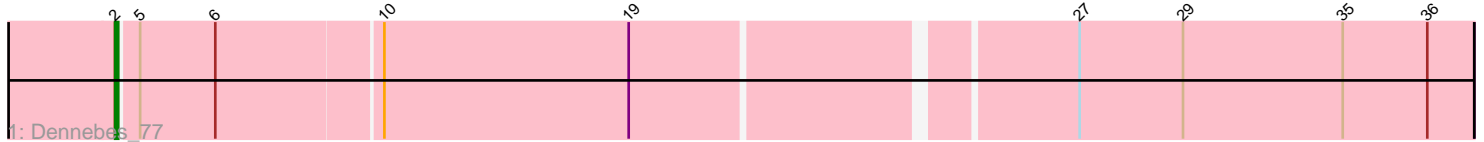


Pham 3971



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 3971 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3971 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Dennebes_77
- Track 2 : Manuel_71
- Track 3 : Stella_74
- Track 4 : Immanuel3_71, HaugeAnator_73, ZooBear_73, Percastrophe_73, ToriToki_73
- Track 5 : Geostin_65, Fabian_69, Vorvolakos_71, RetrieverFever_70, Gremlin23_69, FlowerPower_70
- Track 6 : WRightOn_75, Kumquat_71, Zeigle_71
- Track 7 : JPandJE_73
- Track 8 : Rideau_76
- Track 9 : Olicious_73, Romero_73
- Track 10 : Treat_73
- Track 11 : RosePharie_74

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

The start number called the most often in the published annotations is 3, it was called in 14 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- HaugeAnator_73, Immanuel3_71, JPandJE_73, Kumquat_71, Manuel_71, Olicious_73, Percastrophe_73, Romero_73, RosePharie_74, ToriToki_73, Treat_73, WRightOn_75, Zeigle_71, ZooBear_73,

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

-

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

- Dennebes_77, Fabian_69, FlowerPower_70, Geostin_65, Gremlin23_69, RetrieverFever_70, Rideau_76, Stella_74, Vorvolakos_71,

Summary by start number:

Start 2:

- Found in 3 of 23 (13.0%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Dennebes_77 (BF),

Start 3:

- Found in 14 of 23 (60.9%) of genes in pham
- Manual Annotations of this start: 14 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HaugeAnator_73 (BF), Immanuel3_71 (BF), JPandJE_73 (BF), Kumquat_71 (BF), Manuel_71 (BF), Olicious_73 (BF), Percastrophe_73 (BF), Romero_73 (BF), RosePharie_74 (BF), ToriToki_73 (BF), Treat_73 (BF), WRightOn_75 (BF), Zeigle_71 (BF), ZooBear_73 (BF),

Start 4:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stella_74 (BF),

Start 5:

- Found in 11 of 23 (47.8%) of genes in pham
- Manual Annotations of this start: 5 of 21
- Called 63.6% of time when present
- Phage (with cluster) where this start called: Fabian_69 (BF), FlowerPower_70 (BF), Geostin_65 (BF), Gremlin23_69 (BF), RetrieverFever_70 (BF), Rideau_76 (BF), Vorvolakos_71 (BF),

Summary by clusters:

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:

- Start number 2 was manually annotated 1 time for cluster BF.
- Start number 3 was manually annotated 14 times for cluster BF.
- Start number 4 was manually annotated 1 time for cluster BF.
- Start number 5 was manually annotated 5 times for cluster BF.

Gene Information:

Gene: Dennebes_77 Start: 37933, Stop: 37517, Start Num: 2

Candidate Starts for Dennebes_77:

(Start: 2 @37933 has 1 MA's), (Start: 5 @37927 has 5 MA's), (6, 37903), (10, 37852), (19, 37774), (27, 37642), (29, 37609), (35, 37558), (36, 37531),

Gene: Fabian_69 Start: 37424, Stop: 37014, Start Num: 5

Candidate Starts for Fabian_69:

(Start: 5 @37424 has 5 MA's), (6, 37400), (10, 37349), (17, 37286), (18, 37277), (19, 37271), (22, 37232), (27, 37139), (28, 37109), (31, 37100), (35, 37055), (36, 37028), (37, 37019),

Gene: FlowerPower_70 Start: 37094, Stop: 36684, Start Num: 5

Candidate Starts for FlowerPower_70:

(Start: 5 @37094 has 5 MA's), (6, 37070), (10, 37019), (17, 36956), (18, 36947), (19, 36941), (22, 36902), (27, 36809), (28, 36779), (31, 36770), (35, 36725), (36, 36698), (37, 36689),

Gene: Geostin_65 Start: 37094, Stop: 36684, Start Num: 5

Candidate Starts for Geostin_65:

(Start: 5 @37094 has 5 MA's), (6, 37070), (10, 37019), (17, 36956), (18, 36947), (19, 36941), (22, 36902), (27, 36809), (28, 36779), (31, 36770), (35, 36725), (36, 36698), (37, 36689),

Gene: Gremlin23_69 Start: 37094, Stop: 36684, Start Num: 5

Candidate Starts for Gremlin23_69:

(Start: 5 @37094 has 5 MA's), (6, 37070), (10, 37019), (17, 36956), (18, 36947), (19, 36941), (22, 36902), (27, 36809), (28, 36779), (31, 36770), (35, 36725), (36, 36698), (37, 36689),

Gene: HaugeAnator_73 Start: 37685, Stop: 37269, Start Num: 3

Candidate Starts for HaugeAnator_73:

(Start: 3 @37685 has 14 MA's), (9, 37640), (12, 37592), (19, 37523), (22, 37484), (24, 37409), (34, 37313), (36, 37283),

Gene: Immanuel3_71 Start: 37691, Stop: 37275, Start Num: 3

Candidate Starts for Immanuel3_71:

(Start: 3 @37691 has 14 MA's), (9, 37646), (12, 37598), (19, 37529), (22, 37490), (24, 37415), (34, 37319), (36, 37289),

Gene: JPandJE_73 Start: 38210, Stop: 37794, Start Num: 3

Candidate Starts for JPandJE_73:

(Start: 3 @38210 has 14 MA's), (8, 38171), (11, 38120), (12, 38117), (19, 38048), (22, 38009), (24, 37934), (28, 37886), (34, 37838), (36, 37808),

Gene: Kumquat_71 Start: 36963, Stop: 36556, Start Num: 3

Candidate Starts for Kumquat_71:

(1, 36969), (Start: 3 @36963 has 14 MA's), (Start: 5 @36957 has 5 MA's), (16, 36828), (21, 36792), (27, 36675), (30, 36639), (32, 36630), (36, 36570),

Gene: Manuel_71 Start: 37322, Stop: 36894, Start Num: 3

Candidate Starts for Manuel_71:

(1, 37328), (Start: 3 @37322 has 14 MA's), (7, 37289), (12, 37229), (14, 37205), (16, 37184), (20, 37157), (26, 37028), (27, 37019), (28, 36989), (33, 36959), (36, 36908),

Gene: Olicious_73 Start: 37688, Stop: 37272, Start Num: 3

Candidate Starts for Olicious_73:

(Start: 3 @37688 has 14 MA's), (9, 37643), (12, 37595), (19, 37526), (22, 37487), (24, 37412), (28, 37364), (34, 37316), (36, 37286),

Gene: Percastrophe_73 Start: 37620, Stop: 37204, Start Num: 3

Candidate Starts for Percastrophe_73:

(Start: 3 @37620 has 14 MA's), (9, 37575), (12, 37527), (19, 37458), (22, 37419), (24, 37344), (34, 37248), (36, 37218),

Gene: RetrieverFever_70 Start: 37094, Stop: 36684, Start Num: 5

Candidate Starts for RetrieverFever_70:

(Start: 5 @37094 has 5 MA's), (6, 37070), (10, 37019), (17, 36956), (18, 36947), (19, 36941), (22, 36902), (27, 36809), (28, 36779), (31, 36770), (35, 36725), (36, 36698), (37, 36689),

Gene: Rideau_76 Start: 37818, Stop: 37408, Start Num: 5

Candidate Starts for Rideau_76:

(Start: 2 @37824 has 1 MA's), (Start: 5 @37818 has 5 MA's), (10, 37743), (19, 37665), (27, 37533), (29, 37500), (35, 37449), (36, 37422),

Gene: Romero_73 Start: 37681, Stop: 37265, Start Num: 3

Candidate Starts for Romero_73:

(Start: 3 @37681 has 14 MA's), (9, 37636), (12, 37588), (19, 37519), (22, 37480), (24, 37405), (28, 37357), (34, 37309), (36, 37279),

Gene: RosePharie_74 Start: 37794, Stop: 37363, Start Num: 3

Candidate Starts for RosePharie_74:

(Start: 3 @37794 has 14 MA's), (7, 37761), (12, 37701), (15, 37662), (16, 37656), (23, 37524), (25, 37503), (32, 37443), (33, 37428), (36, 37377),

Gene: Stella_74 Start: 38260, Stop: 37850, Start Num: 4

Candidate Starts for Stella_74:

(Start: 2 @38263 has 1 MA's), (Start: 4 @38260 has 1 MA's), (19, 38107), (28, 37945), (31, 37936), (35, 37891), (36, 37864),

Gene: ToriToki_73 Start: 37684, Stop: 37268, Start Num: 3

Candidate Starts for ToriToki_73:

(Start: 3 @37684 has 14 MA's), (9, 37639), (12, 37591), (19, 37522), (22, 37483), (24, 37408), (34, 37312), (36, 37282),

Gene: Treat_73 Start: 37559, Stop: 37143, Start Num: 3

Candidate Starts for Treat_73:

(Start: 3 @37559 has 14 MA's), (8, 37520), (12, 37466), (13, 37460), (16, 37421), (19, 37397), (22, 37358), (24, 37283), (34, 37187), (36, 37157),

Gene: Vorvolakos_71 Start: 37093, Stop: 36683, Start Num: 5

Candidate Starts for Vorvolakos_71:

(Start: 5 @37093 has 5 MA's), (6, 37069), (10, 37018), (17, 36955), (18, 36946), (19, 36940), (22, 36901), (27, 36808), (28, 36778), (31, 36769), (35, 36724), (36, 36697), (37, 36688),

Gene: WRightOn_75 Start: 37119, Stop: 36712, Start Num: 3

Candidate Starts for WRightOn_75:

(1, 37125), (Start: 3 @37119 has 14 MA's), (Start: 5 @37113 has 5 MA's), (16, 36984), (21, 36948), (27, 36831), (30, 36795), (32, 36786), (36, 36726),

Gene: Zeigle_71 Start: 36963, Stop: 36556, Start Num: 3

Candidate Starts for Zeigle_71:

(1, 36969), (Start: 3 @36963 has 14 MA's), (Start: 5 @36957 has 5 MA's), (16, 36828), (21, 36792), (27, 36675), (30, 36639), (32, 36630), (36, 36570),

Gene: ZooBear_73 Start: 37685, Stop: 37269, Start Num: 3

Candidate Starts for ZooBear_73:

(Start: 3 @37685 has 14 MA's), (9, 37640), (12, 37592), (19, 37523), (22, 37484), (24, 37409), (34, 37313), (36, 37283),