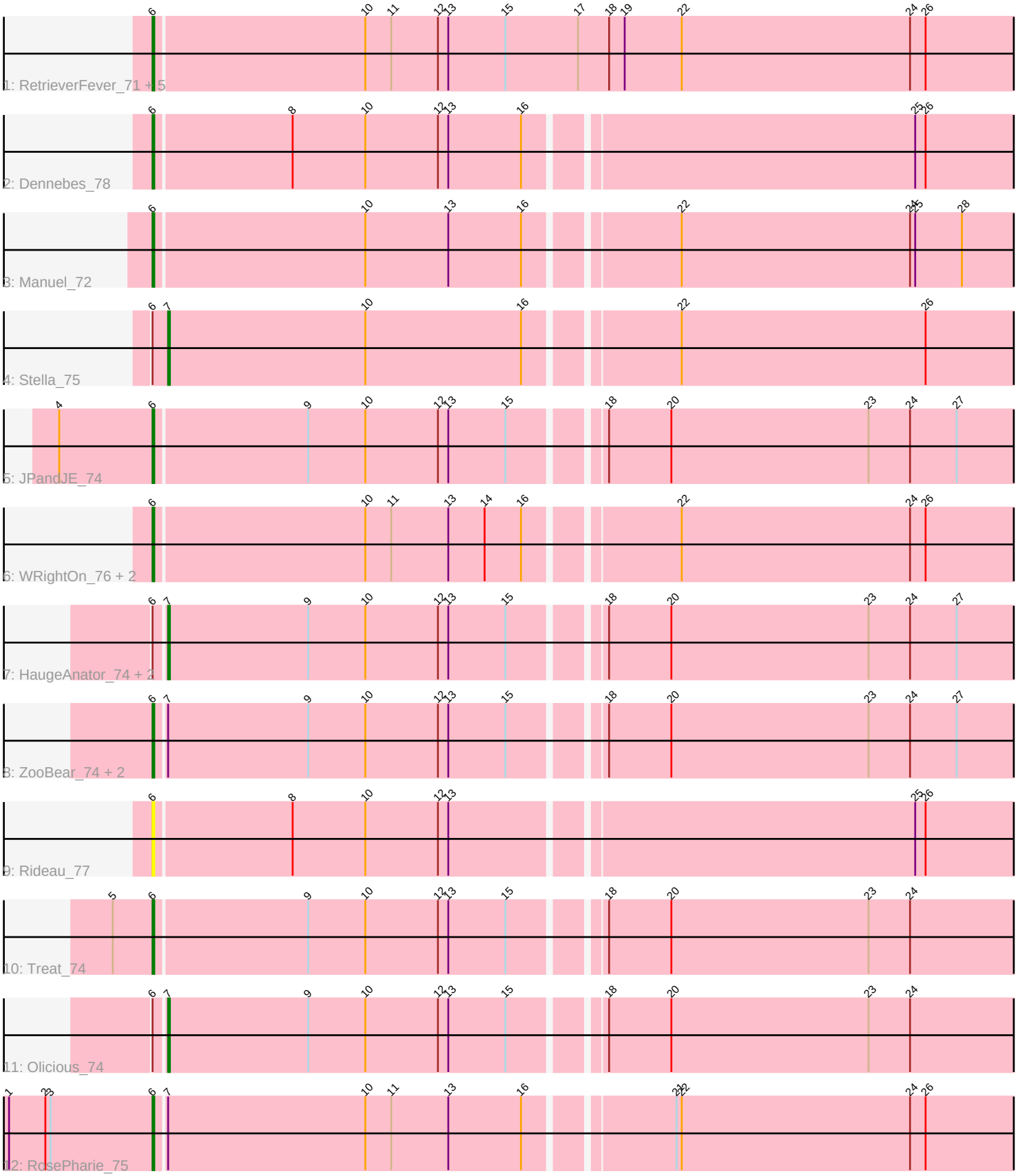
Pham 3970


1: RetrieverFever_71 + 5
2: Dennebes_78
3: Manuel_72
4: Stella_75
5: JPandJE_74
6: WRightOn_76 + 2
7: HaugeAnator_74 + 2
8: ZooBear_74 + 2
9: Rideau_77
10: Treat_74
11: Olicious_74
12: RosePharie_75

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 3970 Report

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

Pham number 3970 has 23 members, 2 are drafts.

Phages represented in each track:
• Track 1 : RetrieverFever_71, FlowerPower_71, Fabian_70, Vorvolakos_72, Gremlin23_70, Geostin_66
• Track 2 : Dennebes_78
• Track 3 : Manuel_72
• Track 4 : Stella_75
• Track 5 : JPandJE_74
• Track 6 : WRightOn_76, Kumquat_72, Zeigle_72
• Track 7 : HaugeAnator_74, Immanuel3_72, ToriToki_74
• Track 8 : ZooBear_74, Percastrophe_74, Romero_74
• Track 9 : Rideau_77
• Track 10 : Treat_74
• Track 11 : Olicious_74
• Track 12 : RosePharie_75

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

The start number called the most often in the published annotations is 6, it was called in 16 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dennebes_78, Fabian_70, FlowerPower_71, Geostin_66, Gremlin23_70, JPandJE_74, Kumquat_72, Manuel_72, Percastrophe_74, RetrieverFever_71, Rideau_77, Romero_74, RosePharie_75, Treat_74, Vorvolakos_72, WRightOn_76, Zeigle_72, ZooBear_74,

Genes that have the "Most Annotated" start but do not call it:
• HaugeAnator_74, Immanuel3_72, Olicious_74, Stella_75, ToriToki_74,

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

Summary by start number:

Start 6:

• Found in 23 of 23 (100.0%) of genes in pham
• Manual Annotations of this start: 16 of 21
• Called 78.3% of time when present
• Phage (with cluster) where this start called: Dennebes_78 (BF), Fabian_70 (BF), FlowerPower_71 (BF), Geostin_66 (BF), Gremlin23_70 (BF), JPandJE_74 (BF), Kumquat_72 (BF), Manuel_72 (BF), Percastrophe_74 (BF), RetrieverFever_71 (BF), Rideau_77 (BF), Romero_74 (BF), RosePharie_75 (BF), Treat_74 (BF), Vorvolakos_72 (BF), WRightOn_76 (BF), Zeigle_72 (BF), ZooBear_74 (BF),

Start 7:
• Found in 9 of 23 (39.1%) of genes in pham
• Manual Annotations of this start: 5 of 21
• Called 55.6% of time when present
• Phage (with cluster) where this start called: HaugeAnator_74 (BF), Immanuel3_72 (BF), Olicious_74 (BF), Stella_75 (BF), ToriToki_74 (BF),

Summary by clusters:

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:
•Start number 6 was manually annotated 16 times for cluster BF.
•Start number 7 was manually annotated 5 times for cluster BF.

Gene Information:

Gene: Dennebes_78 Start: 38460, Stop: 37930, Start Num: 6
Candidate Starts for Dennebes_78:
(Start: 6 @38460 has 16 MA's), (8, 38382), (10, 38340), (12, 38298), (13, 38292), (16, 38250), (25, 38034), (26, 38028),

Gene: Fabian_70 Start: 37971, Stop: 37426, Start Num: 6
Candidate Starts for Fabian_70:
(Start: 6 @37971 has 16 MA's), (10, 37851), (11, 37836), (12, 37809), (13, 37803), (15, 37770), (17, 37728), (18, 37710), (19, 37701), (22, 37668), (24, 37536), (26, 37527),

Gene: FlowerPower_71 Start: 37641, Stop: 37096, Start Num: 6
Candidate Starts for FlowerPower_71:
(Start: 6 @37641 has 16 MA's), (10, 37521), (11, 37506), (12, 37479), (13, 37473), (15, 37440), (17, 37398), (18, 37380), (19, 37371), (22, 37338), (24, 37206), (26, 37197),

Gene: Geostin_66 Start: 37641, Stop: 37096, Start Num: 6
Candidate Starts for Geostin_66:
(Start: 6 @37641 has 16 MA's), (10, 37521), (11, 37506), (12, 37479), (13, 37473), (15, 37440), (17, 37398), (18, 37380), (19, 37371), (22, 37338), (24, 37206), (26, 37197),

Gene: Gremlin23_70 Start: 37641, Stop: 37096, Start Num: 6
Candidate Starts for Gremlin23_70:
(Start: 6 @37641 has 16 MA's), (10, 37521), (11, 37506), (12, 37479), (13, 37473), (15, 37440), (17, 37398), (18, 37380), (19, 37371), (22, 37338), (24, 37206), (26, 37197),

Gene: HaugeAnator_74 Start: 38209, Stop: 37682, Start Num: 7
Candidate Starts for HaugeAnator_74:
(Start: 6 @38215 has 16 MA's), (Start: 7 @38209 has 5 MA's), (9, 38128), (10, 38095), (12, 38053), (13, 38047), (15, 38014), (18, 37966), (20, 37930), (23, 37816), (24, 37792), (27, 37765),

Gene: Immanuel3_72 Start: 38215, Stop: 37688, Start Num: 7
Candidate Starts for Immanuel3_72:
(Start: 6 @38221 has 16 MA's), (Start: 7 @38215 has 5 MA's), (9, 38134), (10, 38101), (12, 38059), (13, 38053), (15, 38020), (18, 37972), (20, 37936), (23, 37822), (24, 37798), (27, 37771),

Gene: JPandJE_74 Start: 38740, Stop: 38207, Start Num: 6
Candidate Starts for JPandJE_74:
(4, 38794), (Start: 6 @38740 has 16 MA's), (9, 38653), (10, 38620), (12, 38578), (13, 38572), (15, 38539), (18, 38491), (20, 38455), (23, 38341), (24, 38317), (27, 38290),

Gene: Kumquat_72 Start: 37496, Stop: 36966, Start Num: 6
Candidate Starts for Kumquat_72:
(Start: 6 @37496 has 16 MA's), (10, 37376), (11, 37361), (13, 37328), (14, 37307), (16, 37286), (22, 37205), (24, 37073), (26, 37064),

Gene: Manuel_72 Start: 37855, Stop: 37325, Start Num: 6
Candidate Starts for Manuel_72:
(Start: 6 @37855 has 16 MA's), (10, 37735), (13, 37687), (16, 37645), (22, 37564), (24, 37432), (25, 37429), (28, 37402),

Gene: Olicious_74 Start: 38212, Stop: 37685, Start Num: 7
Candidate Starts for Olicious_74:
(Start: 6 @38218 has 16 MA's), (Start: 7 @38212 has 5 MA's), (9, 38131), (10, 38098), (12, 38056), (13, 38050), (15, 38017), (18, 37969), (20, 37933), (23, 37819), (24, 37795),

Gene: Percastrophe_74 Start: 38150, Stop: 37617, Start Num: 6
Candidate Starts for Percastrophe_74:
(Start: 6 @38150 has 16 MA's), (Start: 7 @38144 has 5 MA's), (9, 38063), (10, 38030), (12, 37988), (13, 37982), (15, 37949), (18, 37901), (20, 37865), (23, 37751), (24, 37727), (27, 37700),

Gene: RetrieverFever_71 Start: 37641, Stop: 37096, Start Num: 6
Candidate Starts for RetrieverFever_71:
(Start: 6 @37641 has 16 MA's), (10, 37521), (11, 37506), (12, 37479), (13, 37473), (15, 37440), (17, 37398), (18, 37380), (19, 37371), (22, 37338), (24, 37206), (26, 37197),

Gene: Rideau_77 Start: 38351, Stop: 37821, Start Num: 6
Candidate Starts for Rideau_77:
(Start: 6 @38351 has 16 MA's), (8, 38273), (10, 38231), (12, 38189), (13, 38183), (25, 37925), (26, 37919),

Gene: Romero_74 Start: 38211, Stop: 37678, Start Num: 6
Candidate Starts for Romero_74:
(Start: 6 @38211 has 16 MA's), (Start: 7 @38205 has 5 MA's), (9, 38124), (10, 38091), (12, 38049), (13, 38043), (15, 38010), (18, 37962), (20, 37926), (23, 37812), (24, 37788), (27, 37761),

Gene: RosePharie_75 Start: 38328, Stop: 37798, Start Num: 6
Candidate Starts for RosePharie_75:

(1, 38409), (2, 38388), (3, 38385), (Start: 6 @38328 has 16 MA's), (Start: 7 @38322 has 5 MA's), (10, 38208), (11, 38193), (13, 38160), (16, 38118), (21, 38040), (22, 38037), (24, 37905), (26, 37896),

Gene: Stella_75 Start: 38784, Stop: 38260, Start Num: 7
Candidate Starts for Stella_75:
(Start: 6 @38793 has 16 MA's), (Start: 7 @38784 has 5 MA's), (10, 38670), (16, 38580), (22, 38499), (26, 38358),

Gene: ToriToki_74 Start: 38208, Stop: 37681, Start Num: 7
Candidate Starts for ToriToki_74:
(Start: 6 @38214 has 16 MA's), (Start: 7 @38208 has 5 MA's), (9, 38127), (10, 38094), (12, 38052), (13, 38046), (15, 38013), (18, 37965), (20, 37929), (23, 37815), (24, 37791), (27, 37764),

Gene: Treat_74 Start: 38089, Stop: 37556, Start Num: 6
Candidate Starts for Treat_74:
(5, 38110), (Start: 6 @38089 has 16 MA's), (9, 38002), (10, 37969), (12, 37927), (13, 37921), (15, 37888), (18, 37840), (20, 37804), (23, 37690), (24, 37666),

Gene: Vorvolakos_72 Start: 37640, Stop: 37095, Start Num: 6
Candidate Starts for Vorvolakos_72:
(Start: 6 @37640 has 16 MA's), (10, 37520), (11, 37505), (12, 37478), (13, 37472), (15, 37439), (17, 37397), (18, 37379), (19, 37370), (22, 37337), (24, 37205), (26, 37196),

Gene: WRightOn_76 Start: 37652, Stop: 37122, Start Num: 6
Candidate Starts for WRightOn_76:
(Start: 6 @37652 has 16 MA's), (10, 37532), (11, 37517), (13, 37484), (14, 37463), (16, 37442), (22, 37361), (24, 37229), (26, 37220),

Gene: Zeigle_72 Start: 37496, Stop: 36966, Start Num: 6
Candidate Starts for Zeigle_72:
(Start: 6 @37496 has 16 MA's), (10, 37376), (11, 37361), (13, 37328), (14, 37307), (16, 37286), (22, 37205), (24, 37073), (26, 37064),

Gene: ZooBear_74 Start: 38215, Stop: 37682, Start Num: 6
Candidate Starts for ZooBear_74:
(Start: 6 @38215 has 16 MA's), (Start: 7 @38209 has 5 MA's), (9, 38128), (10, 38095), (12, 38053), (13, 38047), (15, 38014), (18, 37966), (20, 37930), (23, 37816), (24, 37792), (27, 37765),