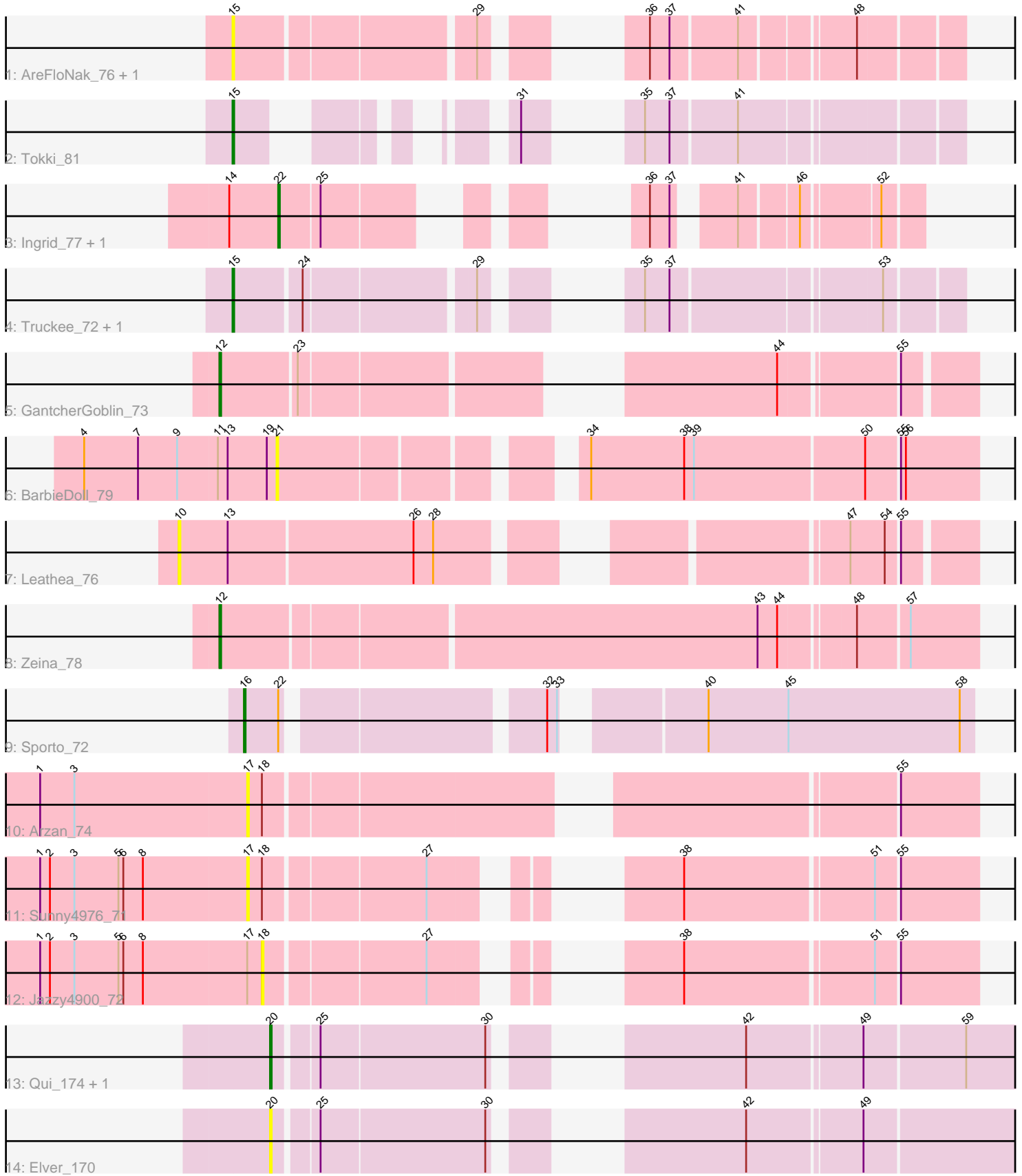# Pham 171821

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 171821 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171821 has 18 members, 8 are drafts.

Phages represented in each track:
• Track 1 : AreFloNak_76, Nivinsha_73
• Track 2 : Tokki_81
• Track 3 : Ingrid_77, Loretta_73
• Track 4 : Truckee_72, Makai_74
• Track 5 : GantcherGoblin_73
• Track 6 : BarbieDoll_79
• Track 7 : Leathea_76
• Track 8 : Zeina_78
• Track 9 : Sporto_72
• Track 10 : Arzan_74
• Track 11 : Sunny4976_71
• Track 12 : Jazzy4900_72
• Track 13 : Qui_174, Paella_174
• Track 14 : Elver_170

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

The start number called the most often in the published annotations is 15, it was called in 3 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AreFloNak_76, Makai_74, Nivinsha_73, Tokki_81, Truckee_72,

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

Genes that do not have the "Most Annotated" start:
• Arzan_74, BarbieDoll_79, Elver_170, GantcherGoblin_73, Ingrid_77, Jazzy4900_72, Leathea_76, Loretta_73, Paella_174, Qui_174, Sporto_72, Sunny4976_71, Zeina_78,

Summary by start number:

Start 10:

• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Leathea_76 (AU6),

Start 12:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GantcherGoblin_73 (AU6), Zeina_78 (AU6),

Start 15:
• Found in 5 of 18 (27.8%) of genes in pham
• Manual Annotations of this start: 3 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AreFloNak_76 (AU1), Makai_74 (AU5), Nivinsha_73 (AU1), Tokki_81 (AU2), Truckee_72 (AU5),

Start 16:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sporto_72 (AW),

Start 17:
• Found in 3 of 18 (16.7%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Arzan_74 (FI), Sunny4976_71 (FI),

Start 18:
• Found in 3 of 18 (16.7%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Jazzy4900_72 (FI),

Start 20:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elver_170 (FK), Paella_174 (FK), Qui_174 (FK),

Start 21:
• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarbieDoll_79 (AU6),

Start 22:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 10

• Called 66.7% of time when present
• Phage (with cluster) where this start called: Ingrid_77 (AU3), Loretta_73 (AU3),

Summary by clusters:

There are 8 clusters represented in this pham: AU1, AU3, AU2, AU5, AW, AU6, FI, FK,

Info for manual annotations of cluster AU2:
•Start number 15 was manually annotated 1 time for cluster AU2.

Info for manual annotations of cluster AU3:
•Start number 22 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU5:
•Start number 15 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:
•Start number 12 was manually annotated 2 times for cluster AU6.

Info for manual annotations of cluster AW:
•Start number 16 was manually annotated 1 time for cluster AW.

Info for manual annotations of cluster FK:
•Start number 20 was manually annotated 2 times for cluster FK.

Gene Information:
Gene: AreFloNak_76 Start: 47429, Stop: 47785, Start Num: 15
Candidate Starts for AreFloNak_76:
(Start: 15 @47429 has 3 MA's), (29, 47564), (36, 47612), (37, 47624), (41, 47663), (48, 47726),

Gene: Arzan_74 Start: 46947, Stop: 47339, Start Num: 17
Candidate Starts for Arzan_74:
(1, 46821), (3, 46842), (17, 46947), (18, 46956), (55, 47292),

Gene: BarbieDoll_79 Start: 46967, Stop: 47353, Start Num: 21
Candidate Starts for BarbieDoll_79:
(4, 46850), (7, 46883), (9, 46907), (11, 46931), (13, 46937), (19, 46961), (21, 46967), (34, 47123), (38, 47180), (39, 47186), (50, 47288), (55, 47306), (56, 47309),

Gene: Elver_170 Start: 85588, Stop: 85980, Start Num: 20
Candidate Starts for Elver_170:
(Start: 20 @85588 has 2 MA's), (25, 85612), (30, 85711), (42, 85813), (49, 85879),

Gene: GantcherGoblin_73 Start: 45315, Stop: 45701, Start Num: 12
Candidate Starts for GantcherGoblin_73:
(Start: 12 @45315 has 2 MA's), (23, 45360), (44, 45594), (55, 45660),

Gene: Ingrid_77 Start: 47844, Stop: 48110, Start Num: 22
Candidate Starts for Ingrid_77:
(14, 47814), (Start: 22 @47844 has 2 MA's), (25, 47868), (36, 47973), (37, 47985), (41, 48012), (46, 48045), (52, 48087),

Gene: Jazzy4900_72 Start: 47820, Stop: 48170, Start Num: 18
Candidate Starts for Jazzy4900_72:
(1, 47685), (2, 47691), (3, 47706), (5, 47733), (6, 47736), (8, 47748), (17, 47811), (18, 47820), (27, 47913), (38, 48000), (51, 48111), (55, 48123),

Gene: Leathea_76 Start: 45220, Stop: 45642, Start Num: 10
Candidate Starts for Leathea_76:
(10, 45220), (13, 45250), (26, 45361), (28, 45373), (47, 45574), (54, 45595), (55, 45601),

Gene: Loretta_73 Start: 47844, Stop: 48110, Start Num: 22
Candidate Starts for Loretta_73:
(14, 47814), (Start: 22 @47844 has 2 MA's), (25, 47868), (36, 47973), (37, 47985), (41, 48012), (46, 48045), (52, 48087),

Gene: Makai_74 Start: 47957, Stop: 48316, Start Num: 15
Candidate Starts for Makai_74:
(Start: 15 @47957 has 3 MA's), (24, 47996), (29, 48092), (35, 48137), (37, 48152), (53, 48272),

Gene: Nivinsha_73 Start: 47429, Stop: 47785, Start Num: 15
Candidate Starts for Nivinsha_73:
(Start: 15 @47429 has 3 MA's), (29, 47564), (36, 47612), (37, 47624), (41, 47663), (48, 47726),

Gene: Paella_174 Start: 86462, Stop: 86854, Start Num: 20
Candidate Starts for Paella_174:
(Start: 20 @86462 has 2 MA's), (25, 86486), (30, 86585), (42, 86687), (49, 86753), (59, 86813),

Gene: Qui_174 Start: 86460, Stop: 86852, Start Num: 20
Candidate Starts for Qui_174:
(Start: 20 @86460 has 2 MA's), (25, 86484), (30, 86583), (42, 86685), (49, 86751), (59, 86811),

Gene: Sporto_72 Start: 46794, Stop: 47192, Start Num: 16
Candidate Starts for Sporto_72:
(Start: 16 @46794 has 1 MA's), (Start: 22 @46815 has 2 MA's), (32, 46956), (33, 46962), (40, 47031), (45, 47079), (58, 47184),

Gene: Sunny4976_71 Start: 47811, Stop: 48170, Start Num: 17
Candidate Starts for Sunny4976_71:
(1, 47685), (2, 47691), (3, 47706), (5, 47733), (6, 47736), (8, 47748), (17, 47811), (18, 47820), (27, 47913), (38, 48000), (51, 48111), (55, 48123),

Gene: Tokki_81 Start: 48071, Stop: 48379, Start Num: 15
Candidate Starts for Tokki_81:
(Start: 15 @48071 has 3 MA's), (31, 48170), (35, 48200), (37, 48215), (41, 48254),

Gene: Truckee_72 Start: 47742, Stop: 48101, Start Num: 15
Candidate Starts for Truckee_72:
(Start: 15 @47742 has 3 MA's), (24, 47781), (29, 47877), (35, 47922), (37, 47937), (53, 48057),

Gene: Zeina_78 Start: 46274, Stop: 46717, Start Num: 12
Candidate Starts for Zeina_78:
(Start: 12 @46274 has 2 MA's), (43, 46592), (44, 46604), (48, 46646), (57, 46676),