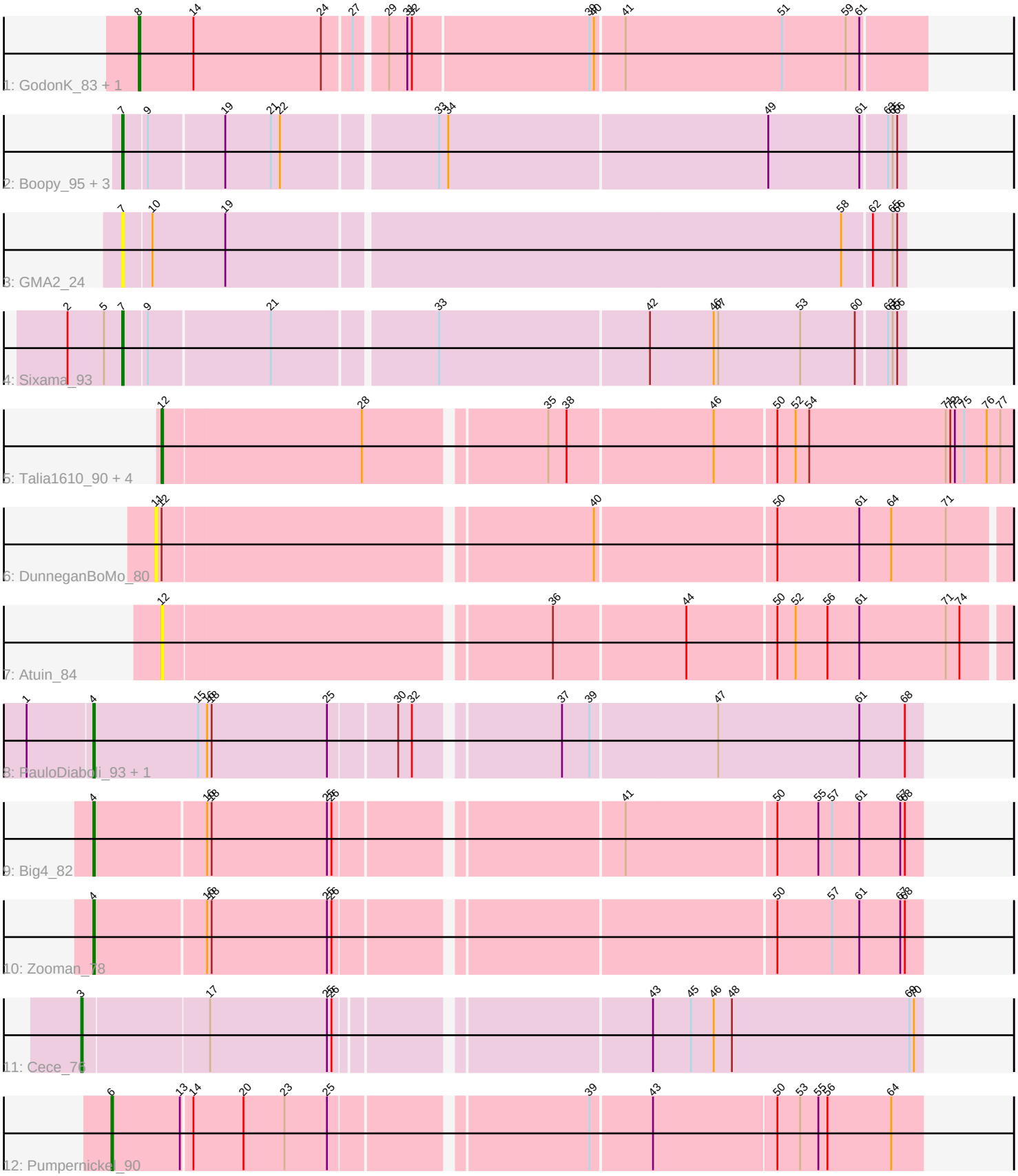
Pham 86794


1: GodonK_83 + 1
2: Boopy_95 + 3
3: GMA2_24
4: Sixama_93
5: Talia1610_90 + 4
6: DunneganBoMo_80
7: Atuin_84
8: RauloDiabolo_93 + 1
9: Big4_82
10: Zooman_78
11: Cece_76
12: Pumpernickel_90

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 86794 Report

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

Pham number 86794 has 21 members, 7 are drafts.

Phages represented in each track:
• Track 1 : GodonK_83, Phendrix_81
• Track 2 : Boopy_95, Mareelih_93, BlueNGold_94, Forza_95
• Track 3 : GMA2_24
• Track 4 : Sixama_93
• Track 5 : Talia1610_90, Bloom_90, Patbob_87, Mimi_93, Racecar_87
• Track 6 : DunneganBoMo_80
• Track 7 : Atuin_84
• Track 8 : PauloDiaboli_93, A3Wally_93
• Track 9 : Big4_82
• Track 10 : Zooman_78
• Track 11 : Cece_76
• Track 12 : Pumpernickel_90

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

The start number called the most often in the published annotations is 7, it was called in 5 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BlueNGold_94, Boopy_95, Forza_95, GMA2_24, Mareelih_93, Sixama_93,

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

Genes that do not have the "Most Annotated" start:
• A3Wally_93, Atuin_84, Big4_82, Bloom_90, Cece_76, DunneganBoMo_80, GodonK_83, Mimi_93, Patbob_87, PauloDiaboli_93, Phendrix_81, Pumpernickel_90, Racecar_87, Talia1610_90, Zooman_78,

Summary by start number:

Start 3:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 14

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_76 (GD3),

Start 4:
• Found in 4 of 21 (19.0%) of genes in pham
• Manual Annotations of this start: 4 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_93 (GD1), Big4_82 (GD2), PauloDiaboli_93 (GD1), Zooman_78 (GD2),

Start 6:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_90 (GD4),

Start 7:
• Found in 6 of 21 (28.6%) of genes in pham
• Manual Annotations of this start: 5 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BlueNGold_94 (DS), Boopy_95 (DS), Forza_95 (DS), GMA2_24 (DS), Mareelih_93 (DS), Sixama_93 (DS),

Start 8:
• Found in 2 of 21 (9.5%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GodonK_83 (DK), Phendrix_81 (DK),

Start 11:
• Found in 1 of 21 (4.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_80 (FC),

Start 12:
• Found in 7 of 21 (33.3%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Atuin_84 (FC), Bloom_90 (FC), Mimi_93 (FC), Patbob_87 (FC), Racecar_87 (FC), Talia1610_90 (FC),

Summary by clusters:

There are 7 clusters represented in this pham: GD1, GD2, GD3, GD4, DK, FC, DS,

Info for manual annotations of cluster DK:
•Start number 8 was manually annotated 2 times for cluster DK.

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

Info for manual annotations of cluster FC:

•Start number 12 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 4 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 4 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 3 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 6 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_93 Start: 50163, Stop: 50687, Start Num: 4
Candidate Starts for A3Wally_93:
(1, 50121), (Start: 4 @50163 has 4 MA's), (15, 50232), (16, 50238), (18, 50241), (25, 50316), (30, 50358), (32, 50367), (37, 50454), (39, 50472), (47, 50553), (61, 50646), (68, 50676),

Gene: Atuin_84 Start: 51497, Stop: 52030, Start Num: 12
Candidate Starts for Atuin_84:
(Start: 12 @51497 has 1 MA's), (36, 51740), (44, 51824), (50, 51881), (52, 51893), (56, 51914), (61, 51935), (71, 51992), (74, 52001),

Gene: Big4_82 Start: 49196, Stop: 49714, Start Num: 4
Candidate Starts for Big4_82:
(Start: 4 @49196 has 4 MA's), (16, 49268), (18, 49271), (25, 49346), (26, 49349), (41, 49523), (50, 49619), (55, 49646), (57, 49655), (61, 49673), (67, 49700), (68, 49703),

Gene: Bloom_90 Start: 52882, Stop: 53421, Start Num: 12
Candidate Starts for Bloom_90:
(Start: 12 @52882 has 1 MA's), (28, 53011), (35, 53122), (38, 53134), (46, 53227), (50, 53266), (52, 53278), (54, 53287), (71, 53377), (72, 53380), (73, 53383), (75, 53389), (76, 53404), (77, 53413),

Gene: BlueNGold_94 Start: 51477, Stop: 51971, Start Num: 7
Candidate Starts for BlueNGold_94:
(Start: 7 @51477 has 5 MA's), (9, 51492), (19, 51540), (21, 51570), (22, 51576), (33, 51672), (34, 51678), (49, 51885), (61, 51945), (63, 51960), (65, 51963), (66, 51966),

Gene: Boopy_95 Start: 51489, Stop: 51983, Start Num: 7
Candidate Starts for Boopy_95:
(Start: 7 @51489 has 5 MA's), (9, 51504), (19, 51552), (21, 51582), (22, 51588), (33, 51684), (34, 51690), (49, 51897), (61, 51957), (63, 51972), (65, 51975), (66, 51978),

Gene: Cece_76 Start: 45150, Stop: 45674, Start Num: 3
Candidate Starts for Cece_76:
(Start: 3 @45150 has 1 MA's), (17, 45231), (25, 45306), (26, 45309), (43, 45498), (45, 45522), (46, 45537), (48, 45549), (69, 45666), (70, 45669),

Gene: DunneganBoMo_80 Start: 48339, Stop: 48875, Start Num: 11
Candidate Starts for DunneganBoMo_80:
(11, 48339), (Start: 12 @48342 has 1 MA's), (40, 48612), (50, 48726), (61, 48780), (64, 48801), (71, 48837),

Gene: Forza_95 Start: 51405, Stop: 51899, Start Num: 7
Candidate Starts for Forza_95:
(Start: 7 @51405 has 5 MA's), (9, 51420), (19, 51468), (21, 51498), (22, 51504), (33, 51600), (34, 51606), (49, 51813), (61, 51873), (63, 51888), (65, 51891), (66, 51894),

Gene: GMA2_24 Start: 21753, Stop: 22253, Start Num: 7
Candidate Starts for GMA2_24:
(Start: 7 @21753 has 5 MA's), (10, 21771), (19, 21819), (58, 22215), (62, 22233), (65, 22245), (66, 22248),

Gene: GodonK_83 Start: 43126, Stop: 43626, Start Num: 8
Candidate Starts for GodonK_83:
(Start: 8 @43126 has 2 MA's), (14, 43162), (24, 43246), (27, 43264), (29, 43282), (31, 43294), (32, 43297), (39, 43411), (40, 43414), (41, 43432), (51, 43534), (59, 43576), (61, 43585),

Gene: Mareelih_93 Start: 50907, Stop: 51401, Start Num: 7
Candidate Starts for Mareelih_93:
(Start: 7 @50907 has 5 MA's), (9, 50922), (19, 50970), (21, 51000), (22, 51006), (33, 51102), (34, 51108), (49, 51315), (61, 51375), (63, 51390), (65, 51393), (66, 51396),

Gene: Mimi_93 Start: 52229, Stop: 52768, Start Num: 12
Candidate Starts for Mimi_93:
(Start: 12 @52229 has 1 MA's), (28, 52358), (35, 52469), (38, 52481), (46, 52574), (50, 52613), (52, 52625), (54, 52634), (71, 52724), (72, 52727), (73, 52730), (75, 52736), (76, 52751), (77, 52760),

Gene: Patbob_87 Start: 53101, Stop: 53640, Start Num: 12
Candidate Starts for Patbob_87:
(Start: 12 @53101 has 1 MA's), (28, 53230), (35, 53341), (38, 53353), (46, 53446), (50, 53485), (52, 53497), (54, 53506), (71, 53596), (72, 53599), (73, 53602), (75, 53608), (76, 53623), (77, 53632),

Gene: PauloDiaboli_93 Start: 49520, Stop: 50044, Start Num: 4
Candidate Starts for PauloDiaboli_93:
(1, 49478), (Start: 4 @49520 has 4 MA's), (15, 49589), (16, 49595), (18, 49598), (25, 49673), (30, 49715), (32, 49724), (37, 49811), (39, 49829), (47, 49910), (61, 50003), (68, 50033),

Gene: Phendrix_81 Start: 42994, Stop: 43494, Start Num: 8
Candidate Starts for Phendrix_81:
(Start: 8 @42994 has 2 MA's), (14, 43030), (24, 43114), (27, 43132), (29, 43150), (31, 43162), (32, 43165), (39, 43279), (40, 43282), (41, 43300), (51, 43402), (59, 43444), (61, 43453),

Gene: Pumpernickel_90 Start: 50912, Stop: 51418, Start Num: 6
Candidate Starts for Pumpernickel_90:
(Start: 6 @50912 has 1 MA's), (13, 50957), (14, 50963), (20, 50996), (23, 51023), (25, 51050), (39, 51206), (43, 51245), (50, 51323), (53, 51338), (55, 51350), (56, 51356), (64, 51398),

Gene: Racecar_87 Start: 52882, Stop: 53421, Start Num: 12
Candidate Starts for Racecar_87:

(Start: 12 @52882 has 1 MA's), (28, 53011), (35, 53122), (38, 53134), (46, 53227), (50, 53266), (52, 53278), (54, 53287), (71, 53377), (72, 53380), (73, 53383), (75, 53389), (76, 53404), (77, 53413),

Gene: Sixama_93 Start: 51015, Stop: 51509, Start Num: 7
Candidate Starts for Sixama_93:
(2, 50979), (5, 51003), (Start: 7 @51015 has 5 MA's), (9, 51030), (21, 51108), (33, 51210), (42, 51345), (46, 51387), (47, 51390), (53, 51444), (60, 51480), (63, 51498), (65, 51501), (66, 51504),

Gene: Talia1610_90 Start: 52247, Stop: 52786, Start Num: 12
Candidate Starts for Talia1610_90:
(Start: 12 @52247 has 1 MA's), (28, 52376), (35, 52487), (38, 52499), (46, 52592), (50, 52631), (52, 52643), (54, 52652), (71, 52742), (72, 52745), (73, 52748), (75, 52754), (76, 52769), (77, 52778),

Gene: Zooman_78 Start: 47850, Stop: 48368, Start Num: 4
Candidate Starts for Zooman_78:
(Start: 4 @47850 has 4 MA's), (16, 47922), (18, 47925), (25, 48000), (26, 48003), (50, 48273), (57, 48309), (61, 48327), (67, 48354), (68, 48357),