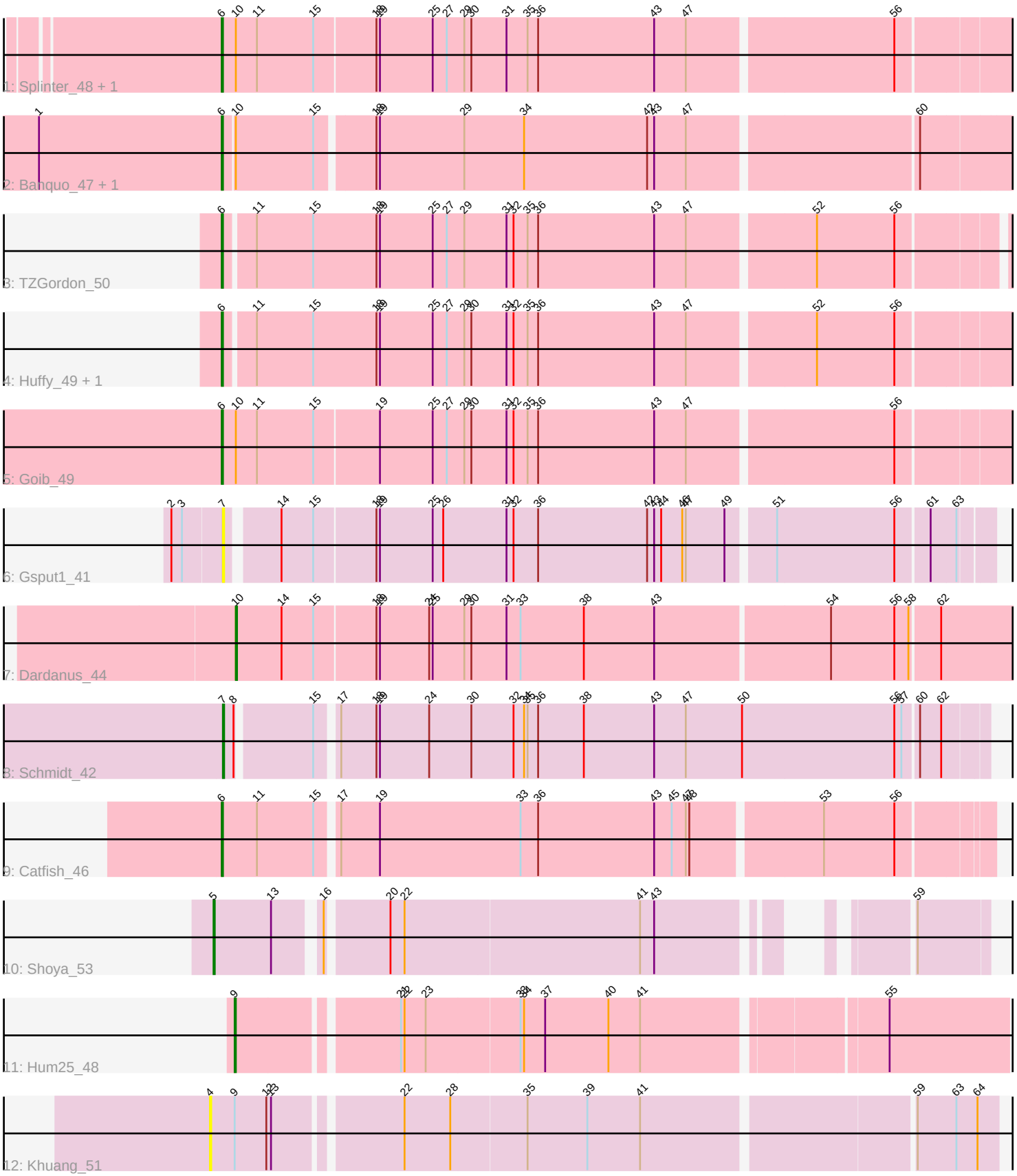
Pham 191602


1: Splinter_48 + 1
2: Banquo_47 + 1
3: TZGordon_50
4: Huffy_49 + 1
5: Goib_49
6: Gsput1_41
7: Dardanus_44
8: Schmidt_42
9: Catfish_46
10: Shoya_53
11: Hum25_48
12: Khuang_51

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 191602 Report

This analysis was run 11/02/24 on database version 579.

Pham number 191602 has 15 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Splinter_48, Vendetta_48
• Track 2 : Banquo_47, TinaLin_46
• Track 3 : TZGordon_50
• Track 4 : Huffy_49, DinoDaryn_49
• Track 5 : Goib_49
• Track 6 : Gsput1_41
• Track 7 : Dardanus_44
• Track 8 : Schmidt_42
• Track 9 : Catfish_46
• Track 10 : Shoya_53
• Track 11 : Hum25_48
• Track 12 : Khuang_51

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 9 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Banquo_47, Catfish_46, DinoDaryn_49, Goib_49, Huffy_49, Splinter_48, TZGordon_50, TinaLin_46, Vendetta_48,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Dardanus_44, Gsput1_41, Hum25_48, Khuang_51, Schmidt_42, Shoya_53,

Summary by start number:

Start 4:
• Found in 1 of 15 (6.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Khuang_51 (UNK),

Start 5:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shoya_53 (FB),

Start 6:
• Found in 9 of 15 (60.0%) of genes in pham
• Manual Annotations of this start: 9 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Banquo_47 (CU1), Catfish_46 (CU5), DinoDaryn_49 (CU1), Goib_49 (CU1), Huffy_49 (CU1), Splinter_48 (CU1), TZGordon_50 (CU1), TinaLin_46 (CU1), Vendetta_48 (CU1),

Start 7:
• Found in 2 of 15 (13.3%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gsput1_41 (CU2), Schmidt_42 (CU4),

Start 9:
• Found in 2 of 15 (13.3%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Hum25_48 (FQ),

Start 10:
• Found in 6 of 15 (40.0%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Dardanus_44 (CU3),

Summary by clusters:

There are 8 clusters represented in this pham: FQ, CU5, CU4, CU3, CU2, CU1, FB, UNK,

Info for manual annotations of cluster CU1:
•Start number 6 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 10 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 7 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:
•Start number 6 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster FB:

•Start number 5 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FQ:
•Start number 9 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: Banquo_47 Start: 31147, Stop: 31794, Start Num: 6
Candidate Starts for Banquo_47:
(1, 30991), (Start: 6 @31147 has 9 MA's), (Start: 10 @31156 has 1 MA's), (15, 31222), (18, 31267), (19, 31270), (29, 31342), (34, 31393), (42, 31498), (43, 31504), (47, 31531), (60, 31717),

Gene: Catfish_46 Start: 32718, Stop: 33347, Start Num: 6
Candidate Starts for Catfish_46:
(Start: 6 @32718 has 9 MA's), (11, 32748), (15, 32796), (17, 32811), (19, 32844), (33, 32964), (36, 32979), (43, 33078), (45, 33093), (47, 33105), (48, 33108), (53, 33213), (56, 33273),

Gene: Dardanus_44 Start: 30078, Stop: 30791, Start Num: 10
Candidate Starts for Dardanus_44:
(Start: 10 @30078 has 1 MA's), (14, 30117), (15, 30144), (18, 30195), (19, 30198), (24, 30240), (25, 30243), (29, 30270), (30, 30276), (31, 30306), (33, 30318), (38, 30372), (43, 30432), (54, 30576), (56, 30630), (58, 30642), (62, 30666),

Gene: DinoDaryn_49 Start: 31634, Stop: 32308, Start Num: 6
Candidate Starts for DinoDaryn_49:
(Start: 6 @31634 has 9 MA's), (11, 31658), (15, 31706), (18, 31760), (19, 31763), (25, 31808), (27, 31820), (29, 31835), (30, 31841), (31, 31871), (32, 31877), (35, 31889), (36, 31898), (43, 31997), (47, 32024), (52, 32126), (56, 32192),

Gene: Goib_49 Start: 32018, Stop: 32695, Start Num: 6
Candidate Starts for Goib_49:
(Start: 6 @32018 has 9 MA's), (Start: 10 @32030 has 1 MA's), (11, 32048), (15, 32096), (19, 32150), (25, 32195), (27, 32207), (29, 32222), (30, 32228), (31, 32258), (32, 32264), (35, 32276), (36, 32285), (43, 32384), (47, 32411), (56, 32579),

Gene: Gsput1_41 Start: 30846, Stop: 31469, Start Num: 7
Candidate Starts for Gsput1_41:
(2, 30804), (3, 30813), (Start: 7 @30846 has 1 MA's), (14, 30885), (15, 30912), (18, 30963), (19, 30966), (25, 31011), (26, 31020), (31, 31074), (32, 31080), (36, 31101), (42, 31194), (43, 31200), (44, 31206), (46, 31224), (47, 31227), (49, 31260), (51, 31296), (56, 31395), (61, 31422), (63, 31443),

Gene: Huffy_49 Start: 31634, Stop: 32308, Start Num: 6
Candidate Starts for Huffy_49:
(Start: 6 @31634 has 9 MA's), (11, 31658), (15, 31706), (18, 31760), (19, 31763), (25, 31808), (27, 31820), (29, 31835), (30, 31841), (31, 31871), (32, 31877), (35, 31889), (36, 31898), (43, 31997), (47, 32024), (52, 32126), (56, 32192),

Gene: Hum25_48 Start: 28280, Stop: 28900, Start Num: 9
Candidate Starts for Hum25_48:

(Start: 9 @28280 has 1 MA's), (21, 28406), (22, 28409), (23, 28427), (33, 28505), (34, 28508), (37, 28526), (40, 28580), (41, 28607), (55, 28799),

Gene: Khuang_51 Start: 30078, Stop: 30713, Start Num: 4
Candidate Starts for Khuang_51:
(4, 30078), (Start: 9 @30099 has 1 MA's), (12, 30126), (13, 30129), (22, 30228), (28, 30267), (35, 30330), (39, 30381), (41, 30426), (59, 30645), (63, 30678), (64, 30696),

Gene: Schmidt_42 Start: 29023, Stop: 29649, Start Num: 7
Candidate Starts for Schmidt_42:
(Start: 7 @29023 has 1 MA's), (8, 29032), (15, 29092), (17, 29107), (18, 29137), (19, 29140), (24, 29182), (30, 29218), (32, 29254), (34, 29263), (35, 29266), (36, 29275), (38, 29314), (43, 29374), (47, 29401), (50, 29449), (56, 29578), (57, 29584), (60, 29596), (62, 29614),

Gene: Shoya_53 Start: 30081, Stop: 30641, Start Num: 5
Candidate Starts for Shoya_53:
(Start: 5 @30081 has 1 MA's), (13, 30129), (16, 30162), (20, 30210), (22, 30222), (41, 30420), (43, 30432), (59, 30582),

Gene: Splinter_48 Start: 32041, Stop: 32718, Start Num: 6
Candidate Starts for Splinter_48:
(Start: 6 @32041 has 9 MA's), (Start: 10 @32053 has 1 MA's), (11, 32071), (15, 32119), (18, 32170), (19, 32173), (25, 32218), (27, 32230), (29, 32245), (30, 32251), (31, 32281), (35, 32299), (36, 32308), (43, 32407), (47, 32434), (56, 32602),

Gene: TZGordon_50 Start: 31549, Stop: 32214, Start Num: 6
Candidate Starts for TZGordon_50:
(Start: 6 @31549 has 9 MA's), (11, 31573), (15, 31621), (18, 31675), (19, 31678), (25, 31723), (27, 31735), (29, 31750), (31, 31786), (32, 31792), (35, 31804), (36, 31813), (43, 31912), (47, 31939), (52, 32041), (56, 32107),

Gene: TinaLin_46 Start: 30820, Stop: 31467, Start Num: 6
Candidate Starts for TinaLin_46:
(1, 30664), (Start: 6 @30820 has 9 MA's), (Start: 10 @30829 has 1 MA's), (15, 30895), (18, 30940), (19, 30943), (29, 31015), (34, 31066), (42, 31171), (43, 31177), (47, 31204), (60, 31390),

Gene: Vendetta_48 Start: 32041, Stop: 32718, Start Num: 6
Candidate Starts for Vendetta_48:
(Start: 6 @32041 has 9 MA's), (Start: 10 @32053 has 1 MA's), (11, 32071), (15, 32119), (18, 32170), (19, 32173), (25, 32218), (27, 32230), (29, 32245), (30, 32251), (31, 32281), (35, 32299), (36, 32308), (43, 32407), (47, 32434), (56, 32602),