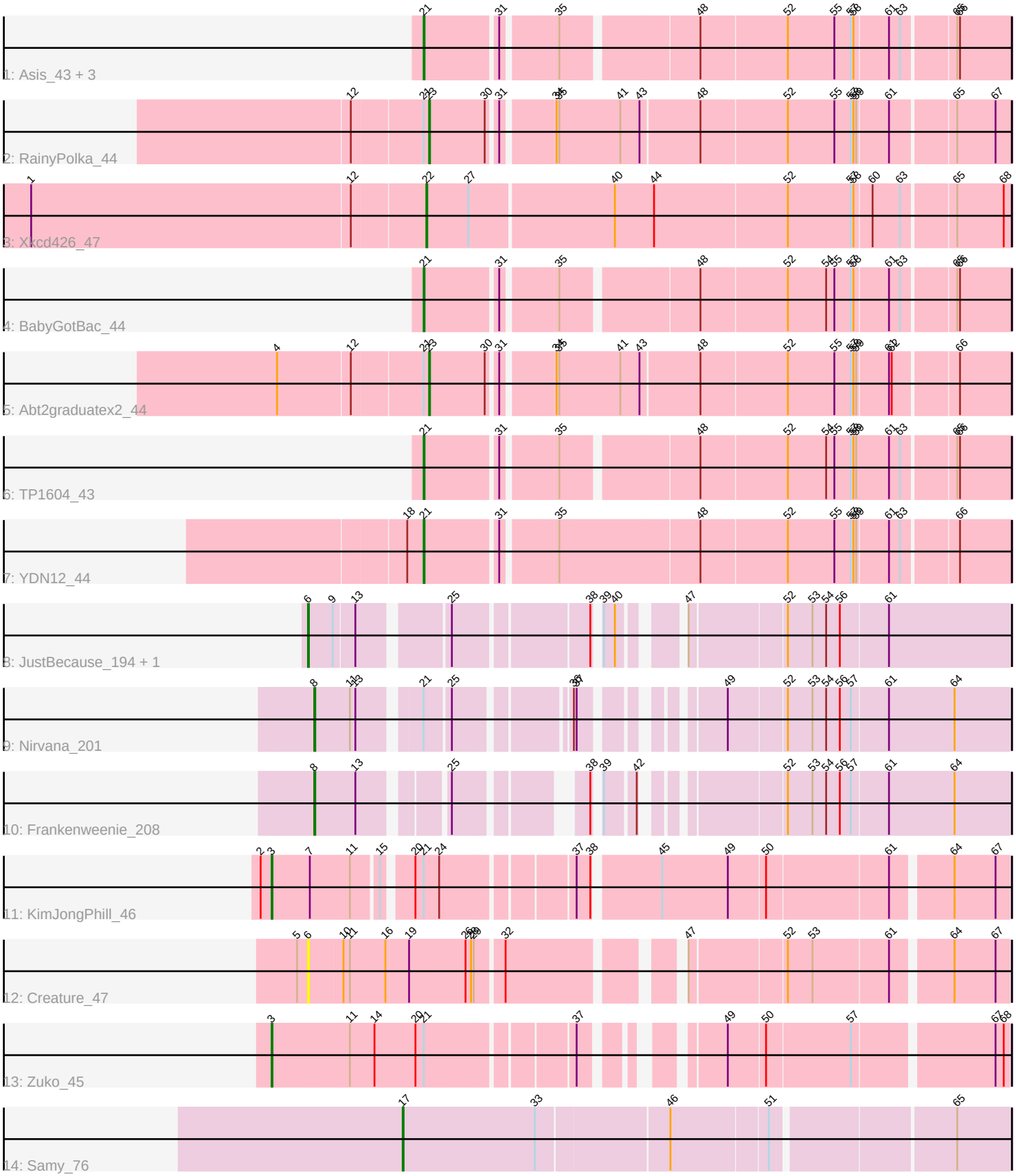
Pham 348099


1: Asis_43 + 3
2: RainyPolka_44
3: Xkcd426_47
4: BabyGotBac_44
5: Abt2graduatex2_44
6: TP1604_43
7: YDN12_44
8: JustBecause_194 + 1
9: Nirvana_201
10: Frankenweenie_208
11: KimJongPhill_46
12: Creature_47
13: Zuko_45
14: Samy_76

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 348099 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348099 has 18 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Asis_43, Maih_42, BayC_43, Salete_43
• Track 2 : RainyPolka_44
• Track 3 : Xkcd426_47
• Track 4 : BabyGotBac_44
• Track 5 : Abt2graduatex2_44
• Track 6 : TP1604_43
• Track 7 : YDN12_44
• Track 8 : JustBecause_194, Kela_192
• Track 9 : Nirvana_201
• Track 10 : Frankenweenie_208
• Track 11 : KimJongPhill_46
• Track 12 : Creature_47
• Track 13 : Zuko_45
• Track 14 : Samy_76

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

The start number called the most often in the published annotations is 21, it was called in 7 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Asis_43, BabyGotBac_44, BayC_43, Maih_42, Salete_43, TP1604_43, YDN12_44,

Genes that have the "Most Annotated" start but do not call it:
• Abt2graduatex2_44, KimJongPhill_46, Nirvana_201, RainyPolka_44, Zuko_45,

Genes that do not have the "Most Annotated" start:
• Creature_47, Frankenweenie_208, JustBecause_194, Kela_192, Samy_76, Xkcd426_47,

Summary by start number:

Start 3:
• Found in 2 of 18 (11.1%) of genes in pham

• Manual Annotations of this start: 2 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KimJongPhill_46 (BR), Zuko_45 (BR),

Start 6:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Creature_47 (BR), JustBecause_194 (BM), Kela_192 (BM),

Start 8:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Frankenweenie_208 (BM), Nirvana_201 (BM),

Start 17:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Samy_76 (singleton),

Start 21:
• Found in 12 of 18 (66.7%) of genes in pham
• Manual Annotations of this start: 7 of 17
• Called 58.3% of time when present
• Phage (with cluster) where this start called: Asis_43 (BG), BabyGotBac_44 (BG), BayC_43 (BG), Maih_42 (BG), Salete_43 (BG), TP1604_43 (BG), YDN12_44 (BG),

Start 22:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Xkcd426_47 (BG),

Start 23:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_44 (BG), RainyPolka_44 (BG),

Summary by clusters:

There are 4 clusters represented in this pham: BM, singleton, BG, BR,

Info for manual annotations of cluster BG:
•Start number 21 was manually annotated 7 times for cluster BG.
•Start number 22 was manually annotated 1 time for cluster BG.
•Start number 23 was manually annotated 2 times for cluster BG.

Info for manual annotations of cluster BM:
•Start number 6 was manually annotated 2 times for cluster BM.
•Start number 8 was manually annotated 2 times for cluster BM.

Info for manual annotations of cluster BR:
•Start number 3 was manually annotated 2 times for cluster BR.

Gene Information:

Gene: Abt2graduatex2_44 Start: 35231, Stop: 34632, Start Num: 23
Candidate Starts for Abt2graduatex2_44:
(4, 35390), (12, 35312), (Start: 21 @35237 has 7 MA's), (Start: 23 @35231 has 2 MA's), (30, 35171), (31, 35162), (34, 35111), (35, 35108), (41, 35042), (43, 35021), (48, 34958), (52, 34865), (55, 34814), (57, 34796), (58, 34793), (59, 34790), (61, 34757), (62, 34754), (66, 34688),

Gene: Asis_43 Start: 34988, Stop: 34395, Start Num: 21
Candidate Starts for Asis_43:
(Start: 21 @34988 has 7 MA's), (31, 34913), (35, 34859), (48, 34721), (52, 34628), (55, 34577), (57, 34559), (58, 34556), (61, 34520), (63, 34508), (65, 34454), (66, 34451),

Gene: BabyGotBac_44 Start: 34988, Stop: 34395, Start Num: 21
Candidate Starts for BabyGotBac_44:
(Start: 21 @34988 has 7 MA's), (31, 34913), (35, 34859), (48, 34721), (52, 34628), (54, 34586), (55, 34577), (57, 34559), (58, 34556), (61, 34520), (63, 34508), (65, 34454), (66, 34451),

Gene: BayC_43 Start: 34985, Stop: 34392, Start Num: 21
Candidate Starts for BayC_43:
(Start: 21 @34985 has 7 MA's), (31, 34910), (35, 34856), (48, 34718), (52, 34625), (55, 34574), (57, 34556), (58, 34553), (61, 34517), (63, 34505), (65, 34451), (66, 34448),

Gene: Creature_47 Start: 37570, Stop: 36887, Start Num: 6
Candidate Starts for Creature_47:
(5, 37582), (Start: 6 @37570 has 2 MA's), (10, 37534), (11, 37528), (16, 37489), (19, 37465), (26, 37405), (28, 37399), (29, 37396), (32, 37369), (47, 37213), (52, 37114), (53, 37087), (61, 37006), (64, 36946), (67, 36901),

Gene: Frankenweenie_208 Start: 132793, Stop: 133419, Start Num: 8
Candidate Starts for Frankenweenie_208:
(Start: 8 @132793 has 2 MA's), (13, 132838), (25, 132913), (38, 133024), (39, 133027), (42, 133057), (52, 133180), (53, 133207), (54, 133222), (56, 133237), (57, 133249), (61, 133288), (64, 133360),

Gene: JustBecause_194 Start: 120916, Stop: 121584, Start Num: 6
Candidate Starts for JustBecause_194:
(Start: 6 @120916 has 2 MA's), (9, 120943), (13, 120964), (25, 121048), (38, 121183), (39, 121186), (40, 121198), (47, 121246), (52, 121345), (53, 121372), (54, 121387), (56, 121402), (61, 121453),

Gene: Kela_192 Start: 120761, Stop: 121429, Start Num: 6
Candidate Starts for Kela_192:
(Start: 6 @120761 has 2 MA's), (9, 120788), (13, 120809), (25, 120893), (38, 121028), (39, 121031), (40, 121043), (47, 121091), (52, 121190), (53, 121217), (54, 121232), (56, 121247), (61, 121298),

Gene: KimJongPhill_46 Start: 37725, Stop: 36994, Start Num: 3
Candidate Starts for KimJongPhill_46:
(2, 37737), (Start: 3 @37725 has 2 MA's), (7, 37683), (11, 37641), (15, 37614), (20, 37587), (Start: 21 @37578 has 7 MA's), (24, 37563), (37, 37434), (38, 37419), (45, 37353), (49, 37281), (50, 37242), (61, 37113), (64, 37053), (67, 37008),

Gene: Maih_42 Start: 34987, Stop: 34394, Start Num: 21
Candidate Starts for Maih_42:
(Start: 21 @34987 has 7 MA's), (31, 34912), (35, 34858), (48, 34720), (52, 34627), (55, 34576), (57, 34558), (58, 34555), (61, 34519), (63, 34507), (65, 34453), (66, 34450),

Gene: Nirvana_201 Start: 131128, Stop: 131775, Start Num: 8
Candidate Starts for Nirvana_201:
(Start: 8 @131128 has 2 MA's), (11, 131167), (13, 131173), (Start: 21 @131230 has 7 MA's), (25, 131254), (36, 131362), (37, 131365), (49, 131476), (52, 131536), (53, 131563), (54, 131578), (56, 131593), (57, 131605), (61, 131644), (64, 131716),

Gene: RainyPolka_44 Start: 34971, Stop: 34372, Start Num: 23
Candidate Starts for RainyPolka_44:
(12, 35052), (Start: 21 @34977 has 7 MA's), (Start: 23 @34971 has 2 MA's), (30, 34911), (31, 34902), (34, 34851), (35, 34848), (41, 34782), (43, 34761), (48, 34698), (52, 34605), (55, 34554), (57, 34536), (58, 34533), (59, 34530), (61, 34497), (65, 34431), (67, 34389),

Gene: Salete_43 Start: 34985, Stop: 34392, Start Num: 21
Candidate Starts for Salete_43:
(Start: 21 @34985 has 7 MA's), (31, 34910), (35, 34856), (48, 34718), (52, 34625), (55, 34574), (57, 34556), (58, 34553), (61, 34517), (63, 34505), (65, 34451), (66, 34448),

Gene: Samy_76 Start: 48622, Stop: 49248, Start Num: 17
Candidate Starts for Samy_76:
(Start: 17 @48622 has 1 MA's), (33, 48766), (46, 48904), (51, 49006), (65, 49192),

Gene: TP1604_43 Start: 34991, Stop: 34395, Start Num: 21
Candidate Starts for TP1604_43:
(Start: 21 @34991 has 7 MA's), (31, 34916), (35, 34862), (48, 34724), (52, 34631), (54, 34589), (55, 34580), (57, 34562), (58, 34559), (59, 34556), (61, 34520), (63, 34508), (65, 34454), (66, 34451),

Gene: Xkcd426_47 Start: 41054, Stop: 40440, Start Num: 22
Candidate Starts for Xkcd426_47:
(1, 41480), (12, 41132), (Start: 22 @41054 has 1 MA's), (27, 41009), (40, 40856), (44, 40814), (52, 40673), (57, 40604), (58, 40601), (60, 40583), (63, 40553), (65, 40499), (68, 40448),

Gene: YDN12_44 Start: 34439, Stop: 33834, Start Num: 21
Candidate Starts for YDN12_44:
(18, 34457), (Start: 21 @34439 has 7 MA's), (31, 34364), (35, 34310), (48, 34160), (52, 34067), (55, 34016), (57, 33998), (58, 33995), (59, 33992), (61, 33959), (63, 33947), (66, 33890),

Gene: Zuko_45 Start: 37012, Stop: 36308, Start Num: 3
Candidate Starts for Zuko_45:
(Start: 3 @37012 has 2 MA's), (11, 36928), (14, 36901), (20, 36856), (Start: 21 @36847 has 7 MA's), (37, 36703), (49, 36595), (50, 36556), (57, 36466), (67, 36322), (68, 36313),