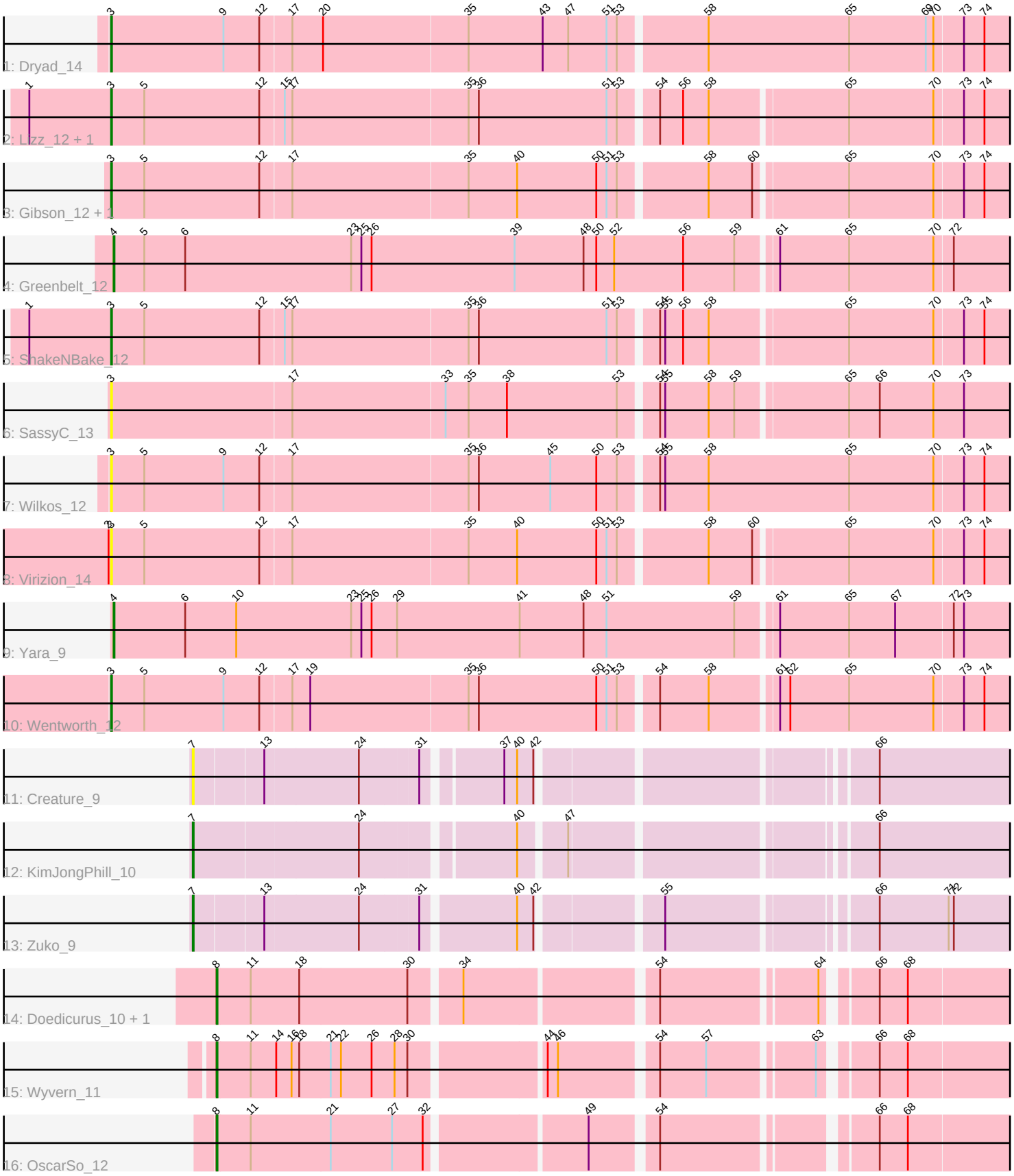
Pham 341186


1: Dryad_14
2: Lizz_12 + 1
3: Gibson_12 + 1
4: Greenbelt_12
5: ShakeNBake_12
6: SassyC_13
7: Wilkos_12
8: Virizion_14
9: Yara_9
10: Wentworth_12
11: Creature_9
12: KimJongPhill_10
13: Zuko_9
14: Doedicurus_10 + 1
15: Wyvern_11
16: OscarSo_12

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 341186 Report

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

Pham number 341186 has 19 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Dryad_14
• Track 2 : Lizz_12, PHTowN_12
• Track 3 : Gibson_12, Rooney_12
• Track 4 : Greenbelt_12
• Track 5 : ShakeNBake_12
• Track 6 : SassyC_13
• Track 7 : Wilkos_12
• Track 8 : Virizion_14
• Track 9 : Yara_9
• Track 10 : Wentworth_12
• Track 11 : Creature_9
• Track 12 : KimJongPhill_10
• Track 13 : Zuko_9
• Track 14 : Doedicurus_10, Isperia_9
• Track 15 : Wyvern_11
• Track 16 : OscarSo_12

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

The start number called the most often in the published annotations is 3, it was called in 7 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dryad_14, Gibson_12, Lizz_12, PHTowN_12, Rooney_12, SassyC_13, ShakeNBake_12, Virizion_14, Wentworth_12, Wilkos_12,

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

Genes that do not have the "Most Annotated" start:
• Creature_9, Doedicurus_10, Greenbelt_12, Isperia_9, KimJongPhill_10, OscarSo_12, Wyvern_11, Yara_9, Zuko_9,

Summary by start number:

Start 3:
• Found in 10 of 19 (52.6%) of genes in pham
• Manual Annotations of this start: 7 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dryad_14 (BN), Gibson_12 (BN), Lizz_12 (BN), PHTowN_12 (BN), Rooney_12 (BN), SassyC_13 (BN), ShakeNBake_12 (BN), Virizion_14 (BN), Wentworth_12 (BN), Wilkos_12 (BN),

Start 4:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Greenbelt_12 (BN), Yara_9 (BN),

Start 7:
• Found in 3 of 19 (15.8%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Creature_9 (BR), KimJongPhill_10 (BR), Zuko_9 (BR),

Start 8:
• Found in 4 of 19 (21.1%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Doedicurus_10 (GJ), Isperia_9 (GJ), OscarSo_12 (GJ), Wyvern_11 (GJ),

Summary by clusters:

There are 3 clusters represented in this pham: BN, GJ, BR,

Info for manual annotations of cluster BN:
•Start number 3 was manually annotated 7 times for cluster BN.
•Start number 4 was manually annotated 2 times for cluster BN.

Info for manual annotations of cluster BR:
•Start number 7 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster GJ:
•Start number 8 was manually annotated 4 times for cluster GJ.

Gene Information:

Gene: Creature_9 Start: 7301, Stop: 8185, Start Num: 7
Candidate Starts for Creature_9:
(Start: 7 @7301 has 2 MA's), (13, 7379), (24, 7487), (31, 7553), (37, 7634), (40, 7649), (42, 7667), (66, 8018),

Gene: Doedicurus_10 Start: 6174, Stop: 7037, Start Num: 8

Candidate Starts for Doedicurus_10:
(Start: 8 @6174 has 4 MA's), (11, 6213), (18, 6270), (30, 6396), (34, 6450), (54, 6657), (64, 6828), (66, 6879), (68, 6912),

Gene: Dryad_14 Start: 7172, Stop: 8230, Start Num: 3
Candidate Starts for Dryad_14:
(Start: 3 @7172 has 7 MA's), (9, 7304), (12, 7346), (17, 7382), (20, 7418), (35, 7586), (43, 7673), (47, 7703), (51, 7748), (53, 7760), (58, 7856), (65, 8021), (69, 8111), (70, 8120), (73, 8153), (74, 8177),

Gene: Gibson_12 Start: 6764, Stop: 7810, Start Num: 3
Candidate Starts for Gibson_12:
(Start: 3 @6764 has 7 MA's), (5, 6803), (12, 6938), (17, 6974), (35, 7178), (40, 7235), (50, 7328), (51, 7340), (53, 7352), (58, 7448), (60, 7499), (65, 7601), (70, 7700), (73, 7733), (74, 7757),

Gene: Greenbelt_12 Start: 6582, Stop: 7640, Start Num: 4
Candidate Starts for Greenbelt_12:
(Start: 4 @6582 has 2 MA's), (5, 6618), (6, 6666), (23, 6861), (25, 6873), (26, 6885), (39, 7053), (48, 7134), (50, 7149), (52, 7170), (56, 7251), (59, 7311), (61, 7353), (65, 7434), (70, 7533), (72, 7554),

Gene: Isperia_9 Start: 5663, Stop: 6526, Start Num: 8
Candidate Starts for Isperia_9:
(Start: 8 @5663 has 4 MA's), (11, 5702), (18, 5759), (30, 5885), (34, 5939), (54, 6146), (64, 6317), (66, 6368), (68, 6401),

Gene: KimJongPhill_10 Start: 7733, Stop: 8632, Start Num: 7
Candidate Starts for KimJongPhill_10:
(Start: 7 @7733 has 2 MA's), (24, 7922), (40, 8084), (47, 8132), (66, 8453),

Gene: Lizz_12 Start: 6680, Stop: 7726, Start Num: 3
Candidate Starts for Lizz_12:
(1, 6584), (Start: 3 @6680 has 7 MA's), (5, 6719), (12, 6854), (15, 6881), (17, 6890), (35, 7094), (36, 7106), (51, 7256), (53, 7268), (54, 7307), (56, 7334), (58, 7364), (65, 7517), (70, 7616), (73, 7649), (74, 7673),

Gene: OscarSo_12 Start: 7723, Stop: 8586, Start Num: 8
Candidate Starts for OscarSo_12:
(Start: 8 @7723 has 4 MA's), (11, 7762), (21, 7855), (27, 7927), (32, 7963), (49, 8137), (54, 8206), (66, 8428), (68, 8461),

Gene: PHTowN_12 Start: 6680, Stop: 7726, Start Num: 3
Candidate Starts for PHTowN_12:
(1, 6584), (Start: 3 @6680 has 7 MA's), (5, 6719), (12, 6854), (15, 6881), (17, 6890), (35, 7094), (36, 7106), (51, 7256), (53, 7268), (54, 7307), (56, 7334), (58, 7364), (65, 7517), (70, 7616), (73, 7649), (74, 7673),

Gene: Rooney_12 Start: 6764, Stop: 7810, Start Num: 3
Candidate Starts for Rooney_12:
(Start: 3 @6764 has 7 MA's), (5, 6803), (12, 6938), (17, 6974), (35, 7178), (40, 7235), (50, 7328), (51, 7340), (53, 7352), (58, 7448), (60, 7499), (65, 7601), (70, 7700), (73, 7733), (74, 7757),

Gene: SassyC_13 Start: 6445, Stop: 7494, Start Num: 3
Candidate Starts for SassyC_13:

(Start: 3 @6445 has 7 MA's), (17, 6655), (33, 6832), (35, 6859), (38, 6904), (53, 7033), (54, 7072), (55, 7078), (58, 7129), (59, 7159), (65, 7282), (66, 7318), (70, 7381), (73, 7417),

Gene: ShakeNBake_12 Start: 6680, Stop: 7726, Start Num: 3
Candidate Starts for ShakeNBake_12:
(1, 6584), (Start: 3 @6680 has 7 MA's), (5, 6719), (12, 6854), (15, 6881), (17, 6890), (35, 7094), (36, 7106), (51, 7256), (53, 7268), (54, 7307), (55, 7313), (56, 7334), (58, 7364), (65, 7517), (70, 7616), (73, 7649), (74, 7673),

Gene: Virizion_14 Start: 6994, Stop: 8040, Start Num: 3
Candidate Starts for Virizion_14:
(2, 6991), (Start: 3 @6994 has 7 MA's), (5, 7033), (12, 7168), (17, 7204), (35, 7408), (40, 7465), (50, 7558), (51, 7570), (53, 7582), (58, 7678), (60, 7729), (65, 7831), (70, 7930), (73, 7963), (74, 7987),

Gene: Wentworth_12 Start: 6466, Stop: 7512, Start Num: 3
Candidate Starts for Wentworth_12:
(Start: 3 @6466 has 7 MA's), (5, 6505), (9, 6598), (12, 6640), (17, 6676), (19, 6697), (35, 6880), (36, 6892), (50, 7030), (51, 7042), (53, 7054), (54, 7093), (58, 7150), (61, 7222), (62, 7234), (65, 7303), (70, 7402), (73, 7435), (74, 7459),

Gene: Wilkos_12 Start: 6623, Stop: 7681, Start Num: 3
Candidate Starts for Wilkos_12:
(Start: 3 @6623 has 7 MA's), (5, 6662), (9, 6755), (12, 6797), (17, 6833), (35, 7037), (36, 7049), (45, 7133), (50, 7187), (53, 7211), (54, 7250), (55, 7256), (58, 7307), (65, 7472), (70, 7571), (73, 7604), (74, 7628),

Gene: Wyvern_11 Start: 6371, Stop: 7231, Start Num: 8
Candidate Starts for Wyvern_11:
(Start: 8 @6371 has 4 MA's), (11, 6410), (14, 6440), (16, 6458), (18, 6467), (21, 6503), (22, 6515), (26, 6551), (28, 6578), (30, 6593), (44, 6737), (46, 6749), (54, 6854), (57, 6908), (63, 7022), (66, 7076), (68, 7109),

Gene: Yara_9 Start: 5566, Stop: 6624, Start Num: 4
Candidate Starts for Yara_9:
(Start: 4 @5566 has 2 MA's), (6, 5650), (10, 5710), (23, 5845), (25, 5857), (26, 5869), (29, 5899), (41, 6043), (48, 6118), (51, 6145), (59, 6295), (61, 6337), (65, 6418), (67, 6472), (72, 6538), (73, 6550),

Gene: Zuko_9 Start: 7457, Stop: 8347, Start Num: 7
Candidate Starts for Zuko_9:
(Start: 7 @7457 has 2 MA's), (13, 7535), (24, 7643), (31, 7709), (40, 7811), (42, 7829), (55, 7958), (66, 8180), (71, 8261), (72, 8267),