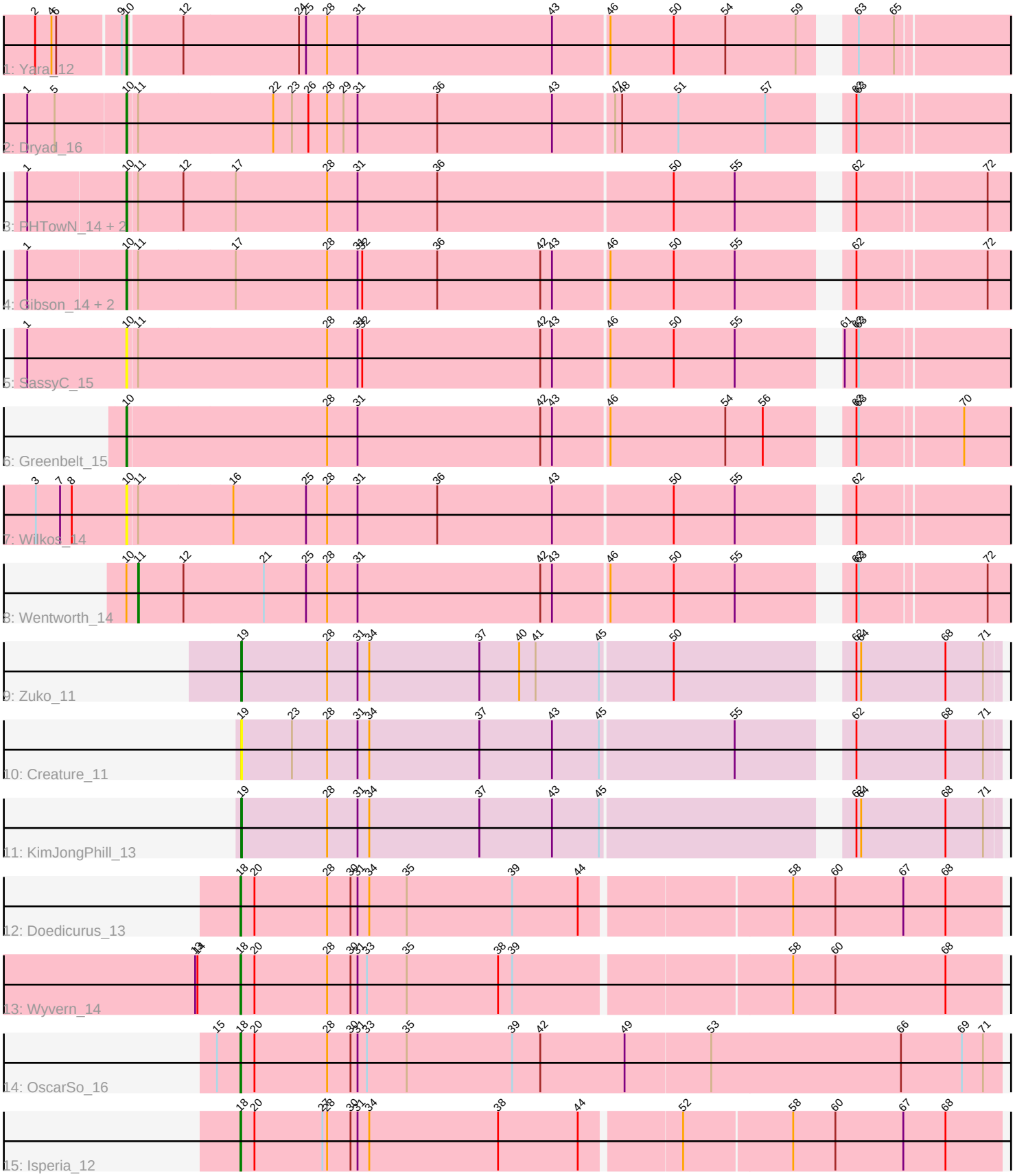
Pham 341187


1: Yara_12
2: Dryad_16
3: PHTowN_14 + 2
4: Gibson_14 + 2
5: SassyC_15
6: Greenbelt_15
7: Wilkos_14
8: Wentworth_14
9: Zuko_11
10: Creature_11
11: KimJongPhill_13
12: Doedicurus_13
13: Wyvern_14
14: OscarSo_16
15: Isperia_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 341187 Report

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

Pham number 341187 has 19 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Yara_12
• Track 2 : Dryad_16
• Track 3 : PHTowN_14, Lizz_14, ShakeNBake_14
• Track 4 : Gibson_14, Rooney_14, Virizion_16
• Track 5 : SassyC_15
• Track 6 : Greenbelt_15
• Track 7 : Wilkos_14
• Track 8 : Wentworth_14
• Track 9 : Zuko_11
• Track 10 : Creature_11
• Track 11 : KimJongPhill_13
• Track 12 : Doedicurus_13
• Track 13 : Wyvern_14
• Track 14 : OscarSo_16
• Track 15 : Isperia_12

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

The start number called the most often in the published annotations is 10, it was called in 8 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dryad_16, Gibson_14, Greenbelt_15, Lizz_14, PHTowN_14, Rooney_14, SassyC_15, ShakeNBake_14, Virizion_16, Wilkos_14, Yara_12,

Genes that have the "Most Annotated" start but do not call it:
• Wentworth_14,

Genes that do not have the "Most Annotated" start:
• Creature_11, Doedicurus_13, Isperia_12, KimJongPhill_13, OscarSo_16, Wyvern_14, Zuko_11,

Summary by start number:

Start 10:
• Found in 12 of 19 (63.2%) of genes in pham
• Manual Annotations of this start: 8 of 15
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Dryad_16 (BN), Gibson_14 (BN), Greenbelt_15 (BN), Lizz_14 (BN), PHTowN_14 (BN), Rooney_14 (BN), SassyC_15 (BN), ShakeNBake_14 (BN), Virizion_16 (BN), Wilkos_14 (BN), Yara_12 (BN),

Start 11:
• Found in 10 of 19 (52.6%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Wentworth_14 (BN),

Start 18:
• 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_13 (GJ), Isperia_12 (GJ), OscarSo_16 (GJ), Wyvern_14 (GJ),

Start 19:
• 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_11 (BR), KimJongPhill_13 (BR), Zuko_11 (BR),

Summary by clusters:

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

Info for manual annotations of cluster BN:
•Start number 10 was manually annotated 8 times for cluster BN.
•Start number 11 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster BR:
•Start number 19 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster GJ:
•Start number 18 was manually annotated 4 times for cluster GJ.

Gene Information:

Gene: Creature_11 Start: 9233, Stop: 10159, Start Num: 19
Candidate Starts for Creature_11:
(Start: 19 @9233 has 2 MA's), (23, 9296), (28, 9341), (31, 9380), (34, 9395), (37, 9536), (43, 9629), (45, 9689), (55, 9857), (62, 9977), (68, 10091), (71, 10139),

Gene: Doedicurus_13 Start: 8908, Stop: 9858, Start Num: 18
Candidate Starts for Doedicurus_13:

(Start: 18 @8908 has 4 MA's), (20, 8923), (28, 9016), (30, 9046), (31, 9055), (34, 9070), (35, 9118), (39, 9253), (44, 9337), (58, 9592), (60, 9646), (67, 9733), (68, 9787),

Gene: Dryad_16 Start: 9266, Stop: 10339, Start Num: 10
Candidate Starts for Dryad_16:
(1, 9149), (5, 9182), (Start: 10 @9266 has 8 MA's), (Start: 11 @9278 has 1 MA's), (22, 9449), (23, 9473), (26, 9494), (28, 9518), (29, 9539), (31, 9557), (36, 9659), (43, 9806), (47, 9881), (48, 9890), (51, 9962), (57, 10073), (62, 10154), (63, 10157),

Gene: Gibson_14 Start: 8842, Stop: 9915, Start Num: 10
Candidate Starts for Gibson_14:
(1, 8722), (Start: 10 @8842 has 8 MA's), (Start: 11 @8854 has 1 MA's), (17, 8977), (28, 9094), (31, 9133), (32, 9139), (36, 9235), (42, 9367), (43, 9382), (46, 9451), (50, 9532), (55, 9610), (62, 9730), (72, 9889),

Gene: Greenbelt_15 Start: 8877, Stop: 9953, Start Num: 10
Candidate Starts for Greenbelt_15:
(Start: 10 @8877 has 8 MA's), (28, 9129), (31, 9168), (42, 9402), (43, 9417), (46, 9486), (54, 9633), (56, 9681), (62, 9765), (63, 9768), (70, 9894),

Gene: Isperia_12 Start: 8393, Stop: 9343, Start Num: 18
Candidate Starts for Isperia_12:
(Start: 18 @8393 has 4 MA's), (20, 8408), (27, 8495), (28, 8501), (30, 8531), (31, 8540), (34, 8555), (38, 8720), (44, 8822), (52, 8942), (58, 9077), (60, 9131), (67, 9218), (68, 9272),

Gene: KimJongPhill_13 Start: 9952, Stop: 10878, Start Num: 19
Candidate Starts for KimJongPhill_13:
(Start: 19 @9952 has 2 MA's), (28, 10060), (31, 10099), (34, 10114), (37, 10255), (43, 10348), (45, 10408), (62, 10696), (64, 10702), (68, 10810), (71, 10858),

Gene: Lizz_14 Start: 8758, Stop: 9831, Start Num: 10
Candidate Starts for Lizz_14:
(1, 8638), (Start: 10 @8758 has 8 MA's), (Start: 11 @8770 has 1 MA's), (12, 8827), (17, 8893), (28, 9010), (31, 9049), (36, 9151), (50, 9448), (55, 9526), (62, 9646), (72, 9805),

Gene: OscarSo_16 Start: 10611, Stop: 11576, Start Num: 18
Candidate Starts for OscarSo_16:
(15, 10581), (Start: 18 @10611 has 4 MA's), (20, 10626), (28, 10719), (30, 10749), (31, 10758), (33, 10770), (35, 10821), (39, 10956), (42, 10992), (49, 11100), (53, 11208), (66, 11448), (69, 11526), (71, 11553),

Gene: PHTowN_14 Start: 8758, Stop: 9831, Start Num: 10
Candidate Starts for PHTowN_14:
(1, 8638), (Start: 10 @8758 has 8 MA's), (Start: 11 @8770 has 1 MA's), (12, 8827), (17, 8893), (28, 9010), (31, 9049), (36, 9151), (50, 9448), (55, 9526), (62, 9646), (72, 9805),

Gene: Rooney_14 Start: 8839, Stop: 9912, Start Num: 10
Candidate Starts for Rooney_14:
(1, 8719), (Start: 10 @8839 has 8 MA's), (Start: 11 @8851 has 1 MA's), (17, 8974), (28, 9091), (31, 9130), (32, 9136), (36, 9232), (42, 9364), (43, 9379), (46, 9448), (50, 9529), (55, 9607), (62, 9727), (72, 9886),

Gene: SassyC_15 Start: 8523, Stop: 9596, Start Num: 10

Candidate Starts for SassyC_15:
(1, 8403), (Start: 10 @8523 has 8 MA's), (Start: 11 @8535 has 1 MA's), (28, 8775), (31, 8814), (32, 8820), (42, 9048), (43, 9063), (46, 9132), (50, 9213), (55, 9291), (61, 9396), (62, 9411), (63, 9414),

Gene: ShakeNBake_14 Start: 8758, Stop: 9831, Start Num: 10
Candidate Starts for ShakeNBake_14:
(1, 8638), (Start: 10 @8758 has 8 MA's), (Start: 11 @8770 has 1 MA's), (12, 8827), (17, 8893), (28, 9010), (31, 9049), (36, 9151), (50, 9448), (55, 9526), (62, 9646), (72, 9805),

Gene: Virizion_16 Start: 9072, Stop: 10145, Start Num: 10
Candidate Starts for Virizion_16:
(1, 8952), (Start: 10 @9072 has 8 MA's), (Start: 11 @9084 has 1 MA's), (17, 9207), (28, 9324), (31, 9363), (32, 9369), (36, 9465), (42, 9597), (43, 9612), (46, 9681), (50, 9762), (55, 9840), (62, 9960), (72, 10119),

Gene: Wentworth_14 Start: 8566, Stop: 9627, Start Num: 11
Candidate Starts for Wentworth_14:
(Start: 10 @8551 has 8 MA's), (Start: 11 @8566 has 1 MA's), (12, 8623), (21, 8725), (25, 8779), (28, 8806), (31, 8845), (42, 9079), (43, 9094), (46, 9163), (50, 9244), (55, 9322), (62, 9442), (63, 9445), (72, 9601),

Gene: Wilkos_14 Start: 8724, Stop: 9797, Start Num: 10
Candidate Starts for Wilkos_14:
(3, 8610), (7, 8640), (8, 8655), (Start: 10 @8724 has 8 MA's), (Start: 11 @8736 has 1 MA's), (16, 8856), (25, 8949), (28, 8976), (31, 9015), (36, 9117), (43, 9264), (50, 9414), (55, 9492), (62, 9612),

Gene: Wyvern_14 Start: 9042, Stop: 9992, Start Num: 18
Candidate Starts for Wyvern_14:
(13, 8985), (14, 8988), (Start: 18 @9042 has 4 MA's), (20, 9057), (28, 9150), (30, 9180), (31, 9189), (33, 9201), (35, 9252), (38, 9369), (39, 9387), (58, 9726), (60, 9780), (68, 9921),

Gene: Yara_12 Start: 7862, Stop: 8935, Start Num: 10
Candidate Starts for Yara_12:
(2, 7751), (4, 7772), (6, 7778), (9, 7856), (Start: 10 @7862 has 8 MA's), (12, 7928), (24, 8075), (25, 8084), (28, 8111), (31, 8150), (43, 8399), (46, 8468), (50, 8549), (54, 8615), (59, 8705), (63, 8750), (65, 8795),

Gene: Zuko_11 Start: 9385, Stop: 10311, Start Num: 19
Candidate Starts for Zuko_11:
(Start: 19 @9385 has 2 MA's), (28, 9493), (31, 9532), (34, 9547), (37, 9688), (40, 9739), (41, 9760), (45, 9841), (50, 9931), (62, 10129), (64, 10135), (68, 10243), (71, 10291),