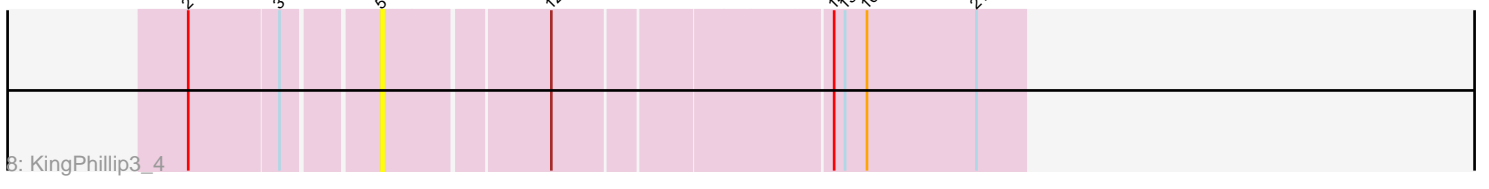
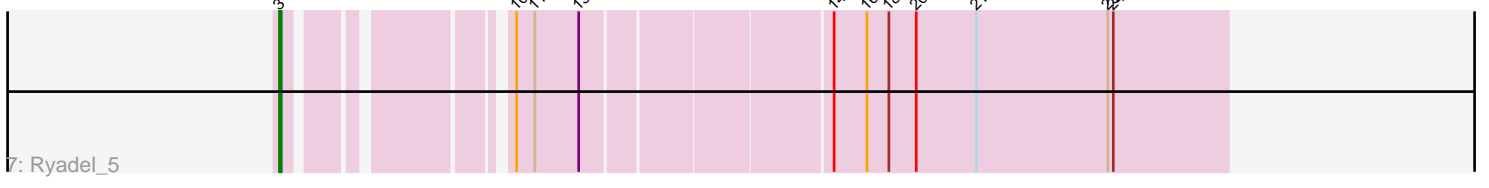
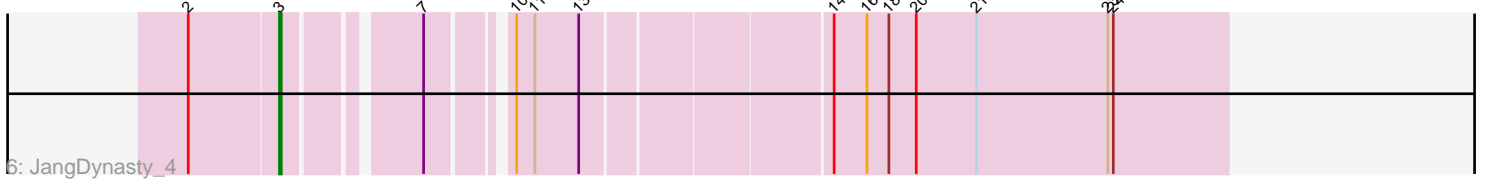
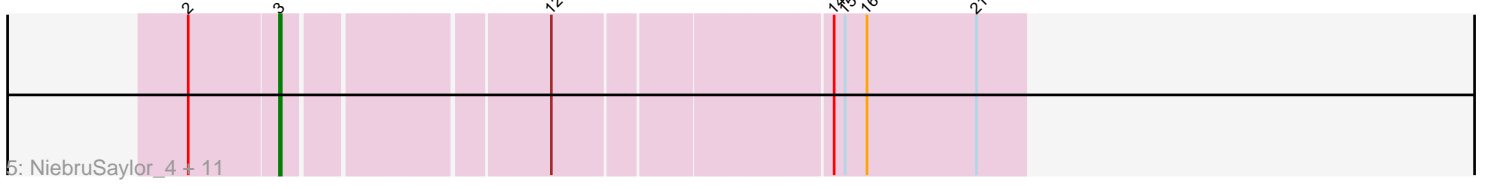
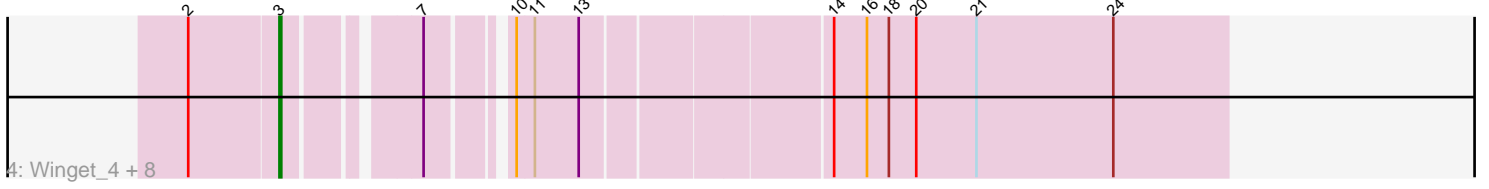
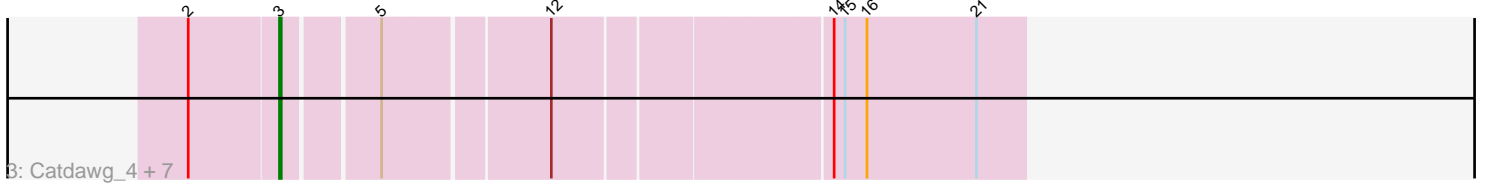
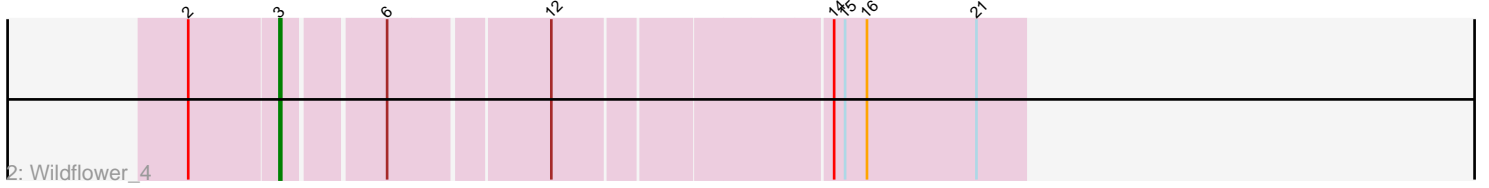
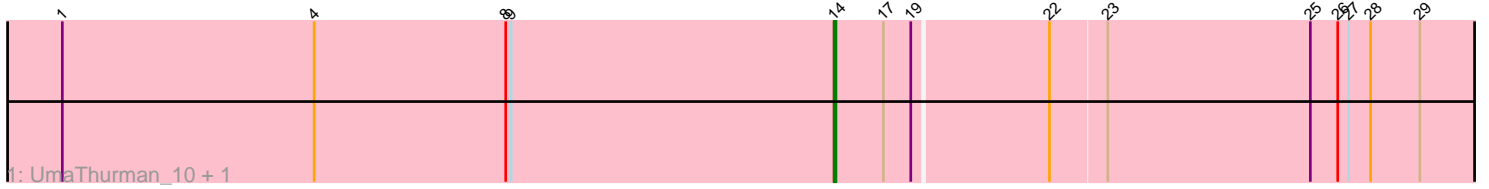


Pham 224757



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 224757 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224757 has 35 members, 4 are drafts.

Phages represented in each track:

- Track 1 : UmaThurman_10, Samba_10
- Track 2 : Wildflower_4
- Track 3 : Catdawg_4, FoulBall_4, Zebo_4, Familton_5, SchoolBus_4, Blessica_4, Idergollasper_4, Shida_4
- Track 4 : Winget_4, Firecracker_4, Vagabond_4, Bora_4, Corndog_5, Alkhayr_4, Wogge42_4, Smooch_5, YungJamal_5
- Track 5 : NiebruSaylor_4, Krili_4, Mori_4, Vorrps_4, Zakhe101_5, MadKillah_4, TelAviv_4, Schuy_4, Ashwin_5, Ryadel_6, Dylan_5, Murai_4
- Track 6 : JangDynasty_4
- Track 7 : Ryadel_5
- Track 8 : KingPhillip3_4

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 29 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr_4, Ashwin_5, Blessica_4, Bora_4, Catdawg_4, Corndog_5, Dylan_5, Familton_5, Firecracker_4, FoulBall_4, Idergollasper_4, JangDynasty_4, Krili_4, MadKillah_4, Mori_4, Murai_4, NiebruSaylor_4, Ryadel_5, Ryadel_6, SchoolBus_4, Schuy_4, Shida_4, Smooch_5, TelAviv_4, Vagabond_4, Vorrps_4, Wildflower_4, Winget_4, Wogge42_4, YungJamal_5, Zakhe101_5, Zebo_4,

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

- KingPhillip3_4,

Genes that do not have the "Most Annotated" start:

- Samba_10, UmaThurman_10,

Summary by start number:

Start 3:

- Found in 33 of 35 (94.3%) of genes in pham

- Manual Annotations of this start: 29 of 31
- Called 97.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_4 (O), Ashwin_5 (O), Blessica_4 (O), Bora_4 (O), Catdawg_4 (O), Corndog_5 (O), Dylan_5 (O), Familton_5 (O), Firecracker_4 (O), FoulBall_4 (O), Idergollasper_4 (O), JangDynasty_4 (O), Krili_4 (O), MadKillah_4 (O), Mori_4 (O), Murai_4 (O), NiebruSaylor_4 (O), Ryadel_5 (O), Ryadel_6 (O), SchoolBus_4 (O), Schuy_4 (O), Shida_4 (O), Smooch_5 (O), TelAviv_4 (O), Vagabond_4 (O), Vorrrps_4 (O), Wildflower_4 (O), Winget_4 (O), Wogge42_4 (O), YungJamal_5 (O), Zakhe101_5 (O), Zebo_4 (O),

Start 5:

- Found in 9 of 35 (25.7%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: KingPhillip3_4 (O),

Start 14:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 31
- Called 5.7% of time when present
- Phage (with cluster) where this start called: Samba_10 (CV), UmaThurman_10 (CV),

Summary by clusters:

There are 2 clusters represented in this pham: CV, O,

Info for manual annotations of cluster CV:

- Start number 14 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster O:

- Start number 3 was manually annotated 29 times for cluster O.

Gene Information:

Gene: Alkhayr_4 Start: 1289, Stop: 819, Start Num: 3

Candidate Starts for Alkhayr_4:

(2, 1337), (Start: 3 @1289 has 29 MA's), (7, 1229), (10, 1193), (11, 1184), (13, 1160), (Start: 14 @1034 has 2 MA's), (16, 1016), (18, 1004), (20, 989), (21, 956), (24, 881),

Gene: Ashwin_5 Start: 1593, Stop: 1216, Start Num: 3

Candidate Starts for Ashwin_5:

(2, 1641), (Start: 3 @1593 has 29 MA's), (12, 1461), (Start: 14 @1320 has 2 MA's), (15, 1314), (16, 1302), (21, 1242),

Gene: Blessica_4 Start: 1148, Stop: 771, Start Num: 3

Candidate Starts for Blessica_4:

(2, 1196), (Start: 3 @1148 has 29 MA's), (5, 1100), (12, 1016), (Start: 14 @875 has 2 MA's), (15, 869), (16, 857), (21, 797),

Gene: Bora_4 Start: 1289, Stop: 819, Start Num: 3

Candidate Starts for Bora_4:

(2, 1337), (Start: 3 @1289 has 29 MA's), (7, 1229), (10, 1193), (11, 1184), (13, 1160), (Start: 14 @1034 has 2 MA's), (16, 1016), (18, 1004), (20, 989), (21, 956), (24, 881),

Gene: Catdawg_4 Start: 1198, Stop: 821, Start Num: 3

Candidate Starts for Catdawg_4:

(2, 1246), (Start: 3 @1198 has 29 MA's), (5, 1150), (12, 1066), (Start: 14 @925 has 2 MA's), (15, 919), (16, 907), (21, 847),

Gene: Corndog_5 Start: 1581, Stop: 1111, Start Num: 3

Candidate Starts for Corndog_5:

(2, 1629), (Start: 3 @1581 has 29 MA's), (7, 1521), (10, 1485), (11, 1476), (13, 1452), (Start: 14 @1326 has 2 MA's), (16, 1308), (18, 1296), (20, 1281), (21, 1248), (24, 1173),

Gene: Dylan_5 Start: 1597, Stop: 1220, Start Num: 3

Candidate Starts for Dylan_5:

(2, 1645), (Start: 3 @1597 has 29 MA's), (12, 1465), (Start: 14 @1324 has 2 MA's), (15, 1318), (16, 1306), (21, 1246),

Gene: Familton_5 Start: 1199, Stop: 822, Start Num: 3

Candidate Starts for Familton_5:

(2, 1247), (Start: 3 @1199 has 29 MA's), (5, 1151), (12, 1067), (Start: 14 @926 has 2 MA's), (15, 920), (16, 908), (21, 848),

Gene: Firecracker_4 Start: 1290, Stop: 820, Start Num: 3

Candidate Starts for Firecracker_4:

(2, 1338), (Start: 3 @1290 has 29 MA's), (7, 1230), (10, 1194), (11, 1185), (13, 1161), (Start: 14 @1035 has 2 MA's), (16, 1017), (18, 1005), (20, 990), (21, 957), (24, 882),

Gene: FoulBall_4 Start: 1199, Stop: 822, Start Num: 3

Candidate Starts for FoulBall_4:

(2, 1247), (Start: 3 @1199 has 29 MA's), (5, 1151), (12, 1067), (Start: 14 @926 has 2 MA's), (15, 920), (16, 908), (21, 848),

Gene: Idergollasper_4 Start: 1199, Stop: 822, Start Num: 3

Candidate Starts for Idergollasper_4:

(2, 1247), (Start: 3 @1199 has 29 MA's), (5, 1151), (12, 1067), (Start: 14 @926 has 2 MA's), (15, 920), (16, 908), (21, 848),

Gene: JangDynasty_4 Start: 1294, Stop: 824, Start Num: 3

Candidate Starts for JangDynasty_4:

(2, 1342), (Start: 3 @1294 has 29 MA's), (7, 1234), (10, 1198), (11, 1189), (13, 1165), (Start: 14 @1039 has 2 MA's), (16, 1021), (18, 1009), (20, 994), (21, 961), (23, 889), (24, 886),

Gene: KingPhillip3_4 Start: 1151, Stop: 822, Start Num: 5

Candidate Starts for KingPhillip3_4:

(2, 1247), (Start: 3 @1199 has 29 MA's), (5, 1151), (12, 1067), (Start: 14 @926 has 2 MA's), (15, 920), (16, 908), (21, 848),

Gene: Krili_4 Start: 1150, Stop: 773, Start Num: 3

Candidate Starts for Krili_4:

(2, 1198), (Start: 3 @1150 has 29 MA's), (12, 1018), (Start: 14 @877 has 2 MA's), (15, 871), (16, 859), (21, 799),

Gene: MadKillah_4 Start: 1150, Stop: 773, Start Num: 3

Candidate Starts for MadKillah_4:

(2, 1198), (Start: 3 @1150 has 29 MA's), (12, 1018), (Start: 14 @877 has 2 MA's), (15, 871), (16, 859), (21, 799),

Gene: Mori_4 Start: 1150, Stop: 773, Start Num: 3

Candidate Starts for Mori_4:

(2, 1198), (Start: 3 @1150 has 29 MA's), (12, 1018), (Start: 14 @877 has 2 MA's), (15, 871), (16, 859), (21, 799),

Gene: Murai_4 Start: 1150, Stop: 773, Start Num: 3

Candidate Starts for Murai_4:

(2, 1198), (Start: 3 @1150 has 29 MA's), (12, 1018), (Start: 14 @877 has 2 MA's), (15, 871), (16, 859), (21, 799),

Gene: NiebruSaylor_4 Start: 1150, Stop: 773, Start Num: 3

Candidate Starts for NiebruSaylor_4:

(2, 1198), (Start: 3 @1150 has 29 MA's), (12, 1018), (Start: 14 @877 has 2 MA's), (15, 871), (16, 859), (21, 799),

Gene: Ryadel_6 Start: 1730, Stop: 1353, Start Num: 3

Candidate Starts for Ryadel_6:

(2, 1778), (Start: 3 @1730 has 29 MA's), (12, 1598), (Start: 14 @1457 has 2 MA's), (15, 1451), (16, 1439), (21, 1379),

Gene: Ryadel_5 Start: 1349, Stop: 882, Start Num: 3

Candidate Starts for Ryadel_5:

(Start: 3 @1349 has 29 MA's), (10, 1256), (11, 1247), (13, 1223), (Start: 14 @1097 has 2 MA's), (16, 1079), (18, 1067), (20, 1052), (21, 1019), (23, 947), (24, 944),

Gene: Samba_10 Start: 7331, Stop: 7696, Start Num: 14

Candidate Starts for Samba_10:

(1, 6908), (4, 7046), (8, 7151), (9, 7154), (Start: 14 @7331 has 2 MA's), (17, 7358), (19, 7373), (22, 7445), (23, 7475), (25, 7586), (26, 7601), (27, 7607), (28, 7619), (29, 7646),

Gene: SchoolBus_4 Start: 1199, Stop: 822, Start Num: 3

Candidate Starts for SchoolBus_4:

(2, 1247), (Start: 3 @1199 has 29 MA's), (5, 1151), (12, 1067), (Start: 14 @926 has 2 MA's), (15, 920), (16, 908), (21, 848),

Gene: Schuy_4 Start: 1150, Stop: 773, Start Num: 3

Candidate Starts for Schuy_4:

(2, 1198), (Start: 3 @1150 has 29 MA's), (12, 1018), (Start: 14 @877 has 2 MA's), (15, 871), (16, 859), (21, 799),

Gene: Shida_4 Start: 1199, Stop: 822, Start Num: 3

Candidate Starts for Shida_4:

(2, 1247), (Start: 3 @1199 has 29 MA's), (5, 1151), (12, 1067), (Start: 14 @926 has 2 MA's), (15, 920), (16, 908), (21, 848),

Gene: Smooch_5 Start: 1579, Stop: 1109, Start Num: 3

Candidate Starts for Smooch_5:

(2, 1627), (Start: 3 @1579 has 29 MA's), (7, 1519), (10, 1483), (11, 1474), (13, 1450), (Start: 14 @1324 has 2 MA's), (16, 1306), (18, 1294), (20, 1279), (21, 1246), (24, 1171),

Gene: TelAviv_4 Start: 1196, Stop: 822, Start Num: 3

Candidate Starts for TelAviv_4:

(2, 1244), (Start: 3 @1196 has 29 MA's), (12, 1067), (Start: 14 @926 has 2 MA's), (15, 920), (16, 908), (21, 848),

Gene: UmaThurman_10 Start: 7330, Stop: 7695, Start Num: 14

Candidate Starts for UmaThurman_10:

(1, 6907), (4, 7045), (8, 7150), (9, 7153), (Start: 14 @7330 has 2 MA's), (17, 7357), (19, 7372), (22, 7444), (23, 7474), (25, 7585), (26, 7600), (27, 7606), (28, 7618), (29, 7645),

Gene: Vagabond_4 Start: 1291, Stop: 821, Start Num: 3

Candidate Starts for Vagabond_4:

(2, 1339), (Start: 3 @1291 has 29 MA's), (7, 1231), (10, 1195), (11, 1186), (13, 1162), (Start: 14 @1036 has 2 MA's), (16, 1018), (18, 1006), (20, 991), (21, 958), (24, 883),

Gene: Vorrps_4 Start: 1150, Stop: 773, Start Num: 3

Candidate Starts for Vorrps_4:

(2, 1198), (Start: 3 @1150 has 29 MA's), (12, 1018), (Start: 14 @877 has 2 MA's), (15, 871), (16, 859), (21, 799),

Gene: Wildflower_4 Start: 1245, Stop: 868, Start Num: 3

Candidate Starts for Wildflower_4:

(2, 1293), (Start: 3 @1245 has 29 MA's), (6, 1194), (12, 1113), (Start: 14 @972 has 2 MA's), (15, 966), (16, 954), (21, 894),

Gene: Winget_4 Start: 1290, Stop: 820, Start Num: 3

Candidate Starts for Winget_4:

(2, 1338), (Start: 3 @1290 has 29 MA's), (7, 1230), (10, 1194), (11, 1185), (13, 1161), (Start: 14 @1035 has 2 MA's), (16, 1017), (18, 1005), (20, 990), (21, 957), (24, 882),

Gene: Wogge42_4 Start: 1294, Stop: 824, Start Num: 3

Candidate Starts for Wogge42_4:

(2, 1342), (Start: 3 @1294 has 29 MA's), (7, 1234), (10, 1198), (11, 1189), (13, 1165), (Start: 14 @1039 has 2 MA's), (16, 1021), (18, 1009), (20, 994), (21, 961), (24, 886),

Gene: YungJamal_5 Start: 1579, Stop: 1109, Start Num: 3

Candidate Starts for YungJamal_5:

(2, 1627), (Start: 3 @1579 has 29 MA's), (7, 1519), (10, 1483), (11, 1474), (13, 1450), (Start: 14 @1324 has 2 MA's), (16, 1306), (18, 1294), (20, 1279), (21, 1246), (24, 1171),

Gene: Zakhe101_5 Start: 1597, Stop: 1220, Start Num: 3

Candidate Starts for Zakhe101_5:

(2, 1645), (Start: 3 @1597 has 29 MA's), (12, 1465), (Start: 14 @1324 has 2 MA's), (15, 1318), (16, 1306), (21, 1246),

Gene: Zebo_4 Start: 1199, Stop: 822, Start Num: 3

Candidate Starts for Zebo_4:

(2, 1247), (Start: 3 @1199 has 29 MA's), (5, 1151), (12, 1067), (Start: 14 @926 has 2 MA's), (15, 920), (16, 908), (21, 848),