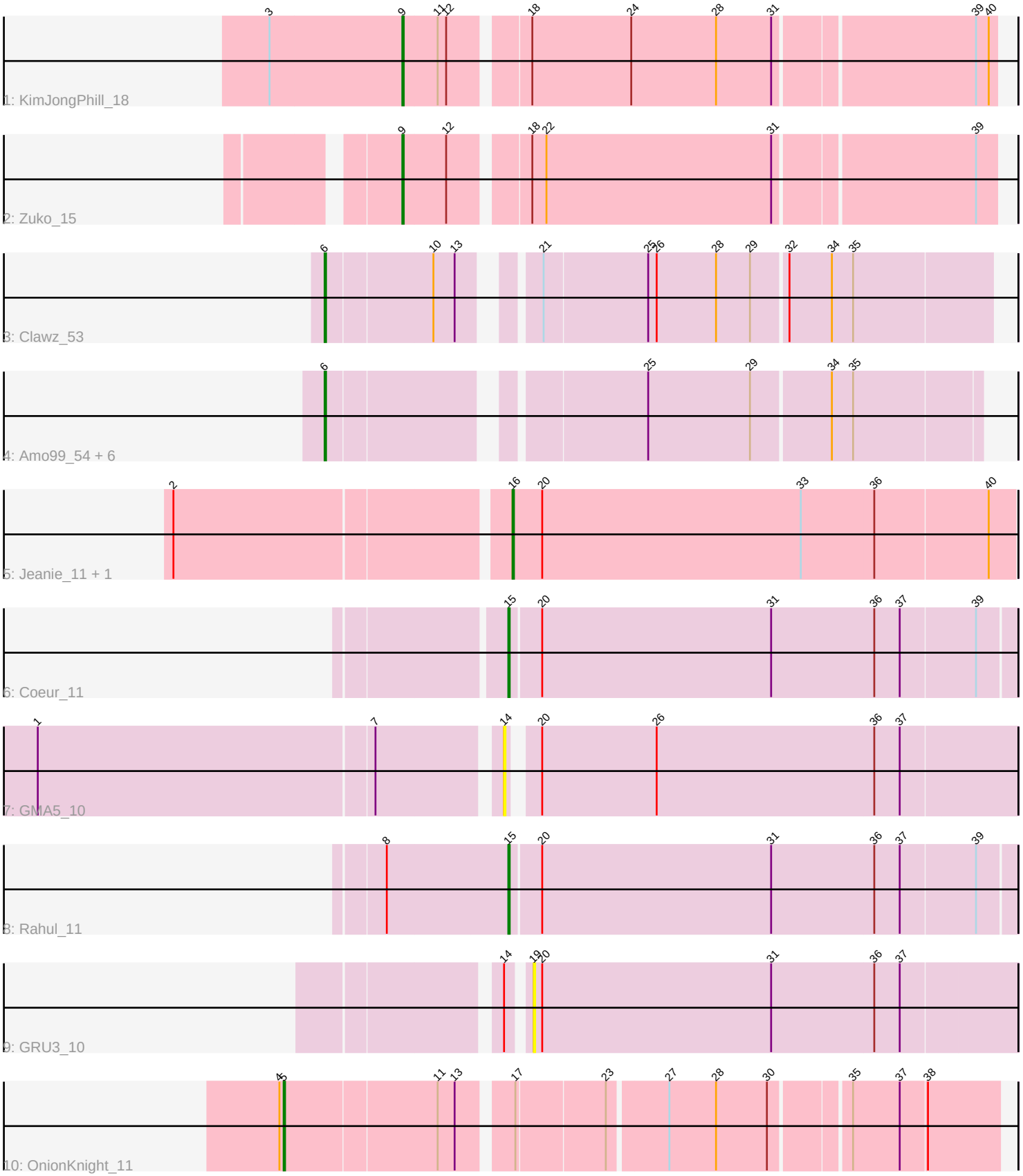
Pham 216620


1: KimJongPhill_18
2: Zuko_15
3: Clawz_53
4: Amo99_54 + 6
5: Jeanie_11 + 1
6: Coeur_11
7: GMA5_10
8: Rahul_11
9: GRU3_10
10: OnionKnight_11

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 216620 Report

This analysis was run 02/22/25 on database version 588.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 216620 has 17 members, 7 are drafts.

Phages represented in each track:
• Track 1 : KimJongPhill_18
• Track 2 : Zuko_15
• Track 3 : Clawz_53
• Track 4 : Amo99_54, KingstonB_54, Sting_52, ColdSoup_54, Soos_49, DonTron_53, Jollymon_54
• Track 5 : Jeanie_11, McGonagall_11
• Track 6 : Coeur_11
• Track 7 : GMA5_10
• Track 8 : Rahul_11
• Track 9 : GRU3_10
• Track 10 : OnionKnight_11

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 3 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amo99_54, Clawz_53, ColdSoup_54, DonTron_53, Jollymon_54, KingstonB_54, Soos_49, Sting_52,

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:
• Coeur_11, GMA5_10, GRU3_10, Jeanie_11, KimJongPhill_18, McGonagall_11, OnionKnight_11, Rahul_11, Zuko_15,

Summary by start number:

Start 5:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OnionKnight_11 (singleton),

Start 6:
• Found in 8 of 17 (47.1%) of genes in pham
• Manual Annotations of this start: 3 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amo99_54 (CP), Clawz_53 (CP), ColdSoup_54 (CP), DonTron_53 (CP), Jollymon_54 (CP), KingstonB_54 (CP), Soos_49 (CP), Sting_52 (CP),

Start 9:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KimJongPhill_18 (BR), Zuko_15 (BR),

Start 14:
• Found in 2 of 17 (11.8%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GMA5_10 (CW2),

Start 15:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coeur_11 (CW2), Rahul_11 (CW2),

Start 16:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jeanie_11 (CW1), McGonagall_11 (CW1),

Start 19:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GRU3_10 (CW2),

Summary by clusters:

There are 5 clusters represented in this pham: CW1, singleton, CP, CW2, BR,

Info for manual annotations of cluster BR:
•Start number 9 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CP:

•Start number 6 was manually annotated 3 times for cluster CP.

Info for manual annotations of cluster CW1:
•Start number 16 was manually annotated 2 times for cluster CW1.

Info for manual annotations of cluster CW2:
•Start number 15 was manually annotated 2 times for cluster CW2.

Gene Information:

Gene: Amo99_54 Start: 29535, Stop: 29960, Start Num: 6
Candidate Starts for Amo99_54:
(Start: 6 @29535 has 3 MA's), (25, 29733), (29, 29805), (34, 29859), (35, 29874),

Gene: Clawz_53 Start: 29439, Stop: 29873, Start Num: 6
Candidate Starts for Clawz_53:
(Start: 6 @29439 has 3 MA's), (10, 29511), (13, 29526), (21, 29565), (25, 29637), (26, 29643), (28, 29685), (29, 29709), (32, 29733), (34, 29763), (35, 29778),

Gene: Coeur_11 Start: 7354, Stop: 7704, Start Num: 15
Candidate Starts for Coeur_11:
(Start: 15 @7354 has 2 MA's), (20, 7375), (31, 7537), (36, 7609), (37, 7627), (39, 7678),

Gene: ColdSoup_54 Start: 29535, Stop: 29960, Start Num: 6
Candidate Starts for ColdSoup_54:
(Start: 6 @29535 has 3 MA's), (25, 29733), (29, 29805), (34, 29859), (35, 29874),

Gene: DonTron_53 Start: 29575, Stop: 30000, Start Num: 6
Candidate Starts for DonTron_53:
(Start: 6 @29575 has 3 MA's), (25, 29773), (29, 29845), (34, 29899), (35, 29914),

Gene: GMA5_10 Start: 7204, Stop: 7551, Start Num: 14
Candidate Starts for GMA5_10:
(1, 6892), (7, 7126), (14, 7204), (20, 7219), (26, 7300), (36, 7453), (37, 7471),

Gene: GRU3_10 Start: 7270, Stop: 7608, Start Num: 19
Candidate Starts for GRU3_10:
(14, 7258), (19, 7270), (20, 7276), (31, 7438), (36, 7510), (37, 7528),

Gene: Jeanie_11 Start: 7163, Stop: 7513, Start Num: 16
Candidate Starts for Jeanie_11:
(2, 6938), (Start: 16 @7163 has 2 MA's), (20, 7184), (33, 7367), (36, 7418), (40, 7496),

Gene: Jollymon_54 Start: 29535, Stop: 29960, Start Num: 6
Candidate Starts for Jollymon_54:
(Start: 6 @29535 has 3 MA's), (25, 29733), (29, 29805), (34, 29859), (35, 29874),

Gene: KimJongPhill_18 Start: 13783, Stop: 14178, Start Num: 9
Candidate Starts for KimJongPhill_18:
(3, 13690), (Start: 9 @13783 has 2 MA's), (11, 13807), (12, 13813), (18, 13861), (24, 13930), (28, 13990), (31, 14029), (39, 14164), (40, 14173),

Gene: KingstonB_54 Start: 29013, Stop: 29438, Start Num: 6
Candidate Starts for KingstonB_54:
(Start: 6 @29013 has 3 MA's), (25, 29211), (29, 29283), (34, 29337), (35, 29352),

Gene: McGonagall_11 Start: 7163, Stop: 7513, Start Num: 16
Candidate Starts for McGonagall_11:
(2, 6938), (Start: 16 @7163 has 2 MA's), (20, 7184), (33, 7367), (36, 7418), (40, 7496),

Gene: OnionKnight_11 Start: 8126, Stop: 8596, Start Num: 5
Candidate Starts for OnionKnight_11:
(4, 8123), (Start: 5 @8126 has 1 MA's), (11, 8231), (13, 8243), (17, 8276), (23, 8336), (27, 8375), (28, 8408), (30, 8444), (35, 8495), (37, 8528), (38, 8546),

Gene: Rahul_11 Start: 7375, Stop: 7725, Start Num: 15
Candidate Starts for Rahul_11:
(8, 7291), (Start: 15 @7375 has 2 MA's), (20, 7396), (31, 7558), (36, 7630), (37, 7648), (39, 7699),

Gene: Soos_49 Start: 28742, Stop: 29167, Start Num: 6
Candidate Starts for Soos_49:
(Start: 6 @28742 has 3 MA's), (25, 28940), (29, 29012), (34, 29066), (35, 29081),

Gene: Sting_52 Start: 29181, Stop: 29606, Start Num: 6
Candidate Starts for Sting_52:
(Start: 6 @29181 has 3 MA's), (25, 29379), (29, 29451), (34, 29505), (35, 29520),

Gene: Zuko_15 Start: 11717, Stop: 12112, Start Num: 9
Candidate Starts for Zuko_15:
(Start: 9 @11717 has 2 MA's), (12, 11747), (18, 11795), (22, 11804), (31, 11963), (39, 12098),