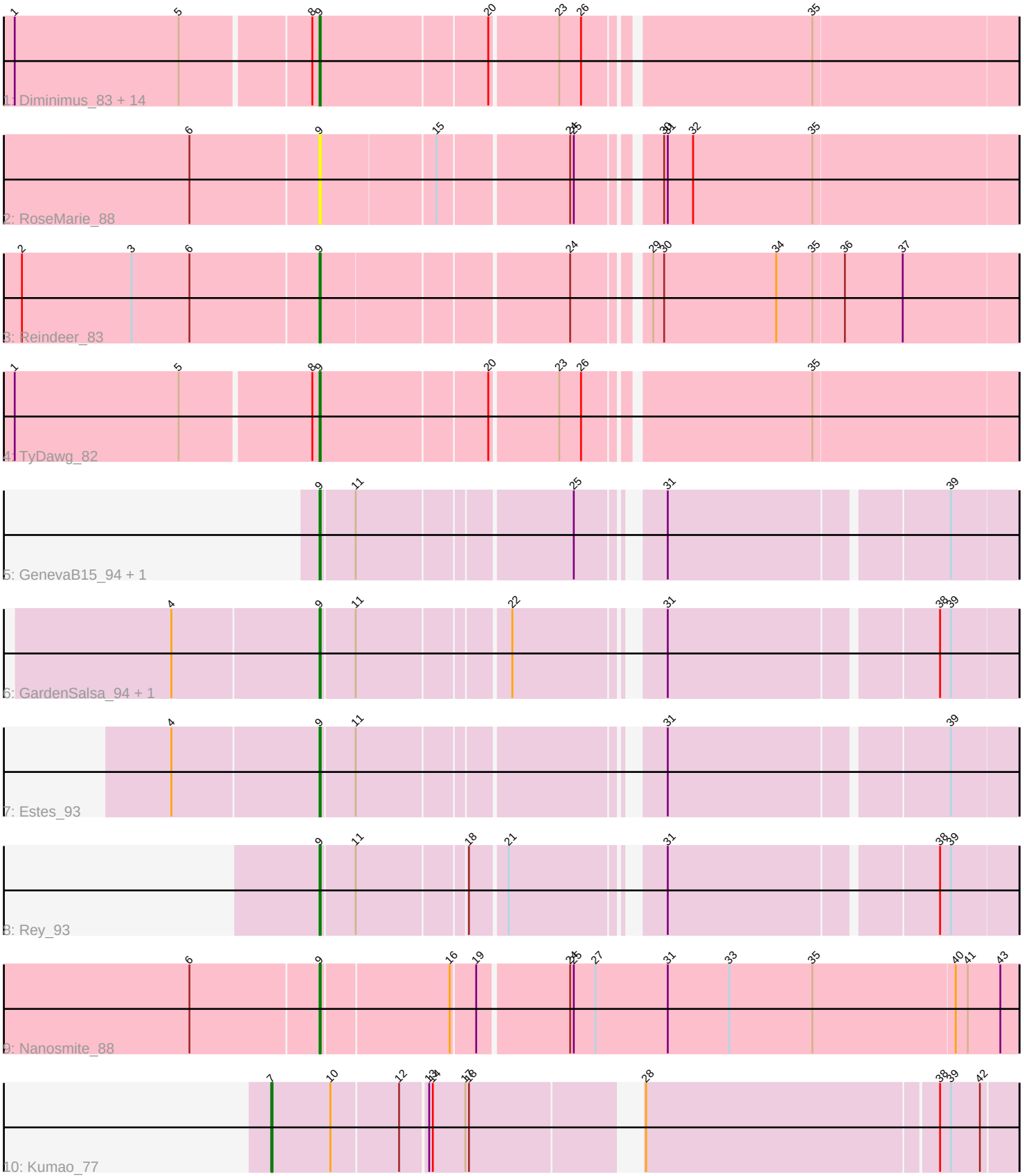
Pham 295021


1: Diminimus_83 + 14
2: RoseMarie_88
3: Reindeer_83
4: TyDawg_82
5: GenevaB15_94 + 1
6: GardenSalsa_94 + 1
7: Estes_93
8: Rey_93
9: Nanosmite_88
10: Kumao_77

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 295021 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295021 has 26 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Diminimus_83, KleverKiS_81, SlimJimmy_81, Dulcita_83, PegLeg_81, Auspice_82, Izel_83, TpudiCK_84, FreakyGoo_84, IPhane7_81, LilhomieP_82, Skinny_86, Bongo_82, Bricole_81, Glaske16_83
• Track 2 : RoseMarie_88
• Track 3 : Reindeer_83
• Track 4 : TyDawg_82
• Track 5 : GenevaB15_94, Aziz_92
• Track 6 : GardenSalsa_94, MrMagoo_95
• Track 7 : Estes_93
• Track 8 : Rey_93
• Track 9 : Nanosmite_88
• Track 10 : Kumao_77

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

The start number called the most often in the published annotations is 9, it was called in 22 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auspice_82, Aziz_92, Bongo_82, Bricole_81, Diminimus_83, Dulcita_83, Estes_93, FreakyGoo_84, GardenSalsa_94, GenevaB15_94, Glaske16_83, IPhane7_81, Izel_83, KleverKiS_81, LilhomieP_82, MrMagoo_95, Nanosmite_88, PegLeg_81, Reindeer_83, Rey_93, RoseMarie_88, Skinny_86, SlimJimmy_81, TpudiCK_84, TyDawg_82,

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

Genes that do not have the "Most Annotated" start:
• Kumao_77,

Summary by start number:

Start 7:

• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kumao_77 (singleton),

Start 9:
• Found in 25 of 26 (96.2%) of genes in pham
• Manual Annotations of this start: 22 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Auspice_82 (M1), Aziz_92 (M2), Bongo_82 (M1), Bricole_81 (M1), Diminimus_83 (M1), Dulcita_83 (M1), Estes_93 (M2), FreakyGoo_84 (M1), GardenSalsa_94 (M2), GenevaB15_94 (M2), Glaske16_83 (M1), IPhane7_81 (M1), Izel_83 (M1), KleverKiS_81 (M1), LilhomieP_82 (M1), MrMagoo_95 (M2), Nanosmite_88 (M3), PegLeg_81 (M1), Reindeer_83 (M1), Rey_93 (M2), RoseMarie_88 (M1), Skinny_86 (M1), SlimJimmy_81 (M1), TpudiCK_84 (M1), TyDawg_82 (M1),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, M1, M3, M2,

Info for manual annotations of cluster M1:
•Start number 9 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 9 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 9 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: Auspice_82 Start: 51592, Stop: 52134, Start Num: 9
Candidate Starts for Auspice_82:
(1, 51349), (5, 51484), (8, 51586), (Start: 9 @51592 has 22 MA's), (20, 51724), (23, 51778), (26, 51796), (35, 51970),

Gene: Aziz_92 Start: 53866, Stop: 54384, Start Num: 9
Candidate Starts for Aziz_92:
(Start: 9 @53866 has 22 MA's), (11, 53893), (25, 54058), (31, 54112), (39, 54331),

Gene: Bongo_82 Start: 51596, Stop: 52138, Start Num: 9
Candidate Starts for Bongo_82:
(1, 51353), (5, 51488), (8, 51590), (Start: 9 @51596 has 22 MA's), (20, 51728), (23, 51782), (26, 51800), (35, 51974),

Gene: Bricole_81 Start: 51360, Stop: 51902, Start Num: 9
Candidate Starts for Bricole_81:
(1, 51117), (5, 51252), (8, 51354), (Start: 9 @51360 has 22 MA's), (20, 51492), (23, 51546), (26, 51564), (35, 51738),

Gene: Diminimus_83 Start: 51591, Stop: 52133, Start Num: 9
Candidate Starts for Diminimus_83:
(1, 51348), (5, 51483), (8, 51585), (Start: 9 @51591 has 22 MA's), (20, 51723), (23, 51777), (26, 51795), (35, 51969),

Gene: Dulcita_83 Start: 51592, Stop: 52134, Start Num: 9
Candidate Starts for Dulcita_83:
(1, 51349), (5, 51484), (8, 51586), (Start: 9 @51592 has 22 MA's), (20, 51724), (23, 51778), (26, 51796), (35, 51970),

Gene: Estes_93 Start: 53965, Stop: 54483, Start Num: 9
Candidate Starts for Estes_93:
(4, 53845), (Start: 9 @53965 has 22 MA's), (11, 53992), (31, 54211), (39, 54430),

Gene: FreakyGoo_84 Start: 52071, Stop: 52613, Start Num: 9
Candidate Starts for FreakyGoo_84:
(1, 51828), (5, 51963), (8, 52065), (Start: 9 @52071 has 22 MA's), (20, 52203), (23, 52257), (26, 52275), (35, 52449),

Gene: GardenSalsa_94 Start: 54325, Stop: 54843, Start Num: 9
Candidate Starts for GardenSalsa_94:
(4, 54205), (Start: 9 @54325 has 22 MA's), (11, 54352), (22, 54466), (31, 54571), (38, 54781), (39, 54790),

Gene: GenevaB15_94 Start: 53866, Stop: 54384, Start Num: 9
Candidate Starts for GenevaB15_94:
(Start: 9 @53866 has 22 MA's), (11, 53893), (25, 54058), (31, 54112), (39, 54331),

Gene: Glaske16_83 Start: 51656, Stop: 52198, Start Num: 9
Candidate Starts for Glaske16_83:
(1, 51413), (5, 51548), (8, 51650), (Start: 9 @51656 has 22 MA's), (20, 51788), (23, 51842), (26, 51860), (35, 52034),

Gene: IPhane7_81 Start: 51596, Stop: 52138, Start Num: 9
Candidate Starts for IPhane7_81:
(1, 51353), (5, 51488), (8, 51590), (Start: 9 @51596 has 22 MA's), (20, 51728), (23, 51782), (26, 51800), (35, 51974),

Gene: Izel_83 Start: 51591, Stop: 52133, Start Num: 9
Candidate Starts for Izel_83:
(1, 51348), (5, 51483), (8, 51585), (Start: 9 @51591 has 22 MA's), (20, 51723), (23, 51777), (26, 51795), (35, 51969),

Gene: KleverKiS_81 Start: 51354, Stop: 51896, Start Num: 9
Candidate Starts for KleverKiS_81:
(1, 51111), (5, 51246), (8, 51348), (Start: 9 @51354 has 22 MA's), (20, 51486), (23, 51540), (26, 51558), (35, 51732),

Gene: Kumao_77 Start: 51889, Stop: 52464, Start Num: 7
Candidate Starts for Kumao_77:
(Start: 7 @51889 has 1 MA's), (10, 51937), (12, 51991), (13, 52012), (14, 52015), (17, 52042), (18, 52045), (28, 52165), (38, 52402), (39, 52411), (42, 52435),

Gene: LilhomieP_82 Start: 52075, Stop: 52617, Start Num: 9
Candidate Starts for LilhomieP_82:
(1, 51832), (5, 51967), (8, 52069), (Start: 9 @52075 has 22 MA's), (20, 52207), (23, 52261), (26, 52279), (35, 52453),

Gene: MrMagoo_95 Start: 54325, Stop: 54843, Start Num: 9
Candidate Starts for MrMagoo_95:
(4, 54205), (Start: 9 @54325 has 22 MA's), (11, 54352), (22, 54466), (31, 54571), (38, 54781), (39, 54790),

Gene: Nanosmite_88 Start: 53290, Stop: 53850, Start Num: 9
Candidate Starts for Nanosmite_88:
(6, 53185), (Start: 9 @53290 has 22 MA's), (16, 53392), (19, 53410), (24, 53482), (25, 53485), (27, 53503), (31, 53563), (33, 53614), (35, 53683), (40, 53800), (41, 53809), (43, 53836),

Gene: PegLeg_81 Start: 51336, Stop: 51878, Start Num: 9
Candidate Starts for PegLeg_81:
(1, 51093), (5, 51228), (8, 51330), (Start: 9 @51336 has 22 MA's), (20, 51468), (23, 51522), (26, 51540), (35, 51714),

Gene: Reindeer_83 Start: 52390, Stop: 52929, Start Num: 9
Candidate Starts for Reindeer_83:
(2, 52147), (3, 52237), (6, 52285), (Start: 9 @52390 has 22 MA's), (24, 52582), (29, 52633), (30, 52642), (34, 52735), (35, 52765), (36, 52789), (37, 52837),

Gene: Rey_93 Start: 53635, Stop: 54153, Start Num: 9
Candidate Starts for Rey_93:
(Start: 9 @53635 has 22 MA's), (11, 53662), (18, 53746), (21, 53773), (31, 53881), (38, 54091), (39, 54100),

Gene: RoseMarie_88 Start: 55321, Stop: 55860, Start Num: 9
Candidate Starts for RoseMarie_88:
(6, 55216), (Start: 9 @55321 has 22 MA's), (15, 55411), (24, 55513), (25, 55516), (30, 55573), (31, 55576), (32, 55597), (35, 55696),

Gene: Skinny_86 Start: 52504, Stop: 53046, Start Num: 9
Candidate Starts for Skinny_86:
(1, 52261), (5, 52396), (8, 52498), (Start: 9 @52504 has 22 MA's), (20, 52636), (23, 52690), (26, 52708), (35, 52882),

Gene: SlimJimmy_81 Start: 51933, Stop: 52475, Start Num: 9
Candidate Starts for SlimJimmy_81:
(1, 51690), (5, 51825), (8, 51927), (Start: 9 @51933 has 22 MA's), (20, 52065), (23, 52119), (26, 52137), (35, 52311),

Gene: TpudiCK_84 Start: 51596, Stop: 52138, Start Num: 9
Candidate Starts for TpudiCK_84:
(1, 51353), (5, 51488), (8, 51590), (Start: 9 @51596 has 22 MA's), (20, 51728), (23, 51782), (26, 51800), (35, 51974),

Gene: TyDawg_82 Start: 51599, Stop: 52141, Start Num: 9
Candidate Starts for TyDawg_82:

(1, 51353), (5, 51488), (8, 51593), (Start: 9 @51599 has 22 MA's), (20, 51731), (23, 51785), (26, 51803), (35, 51977),