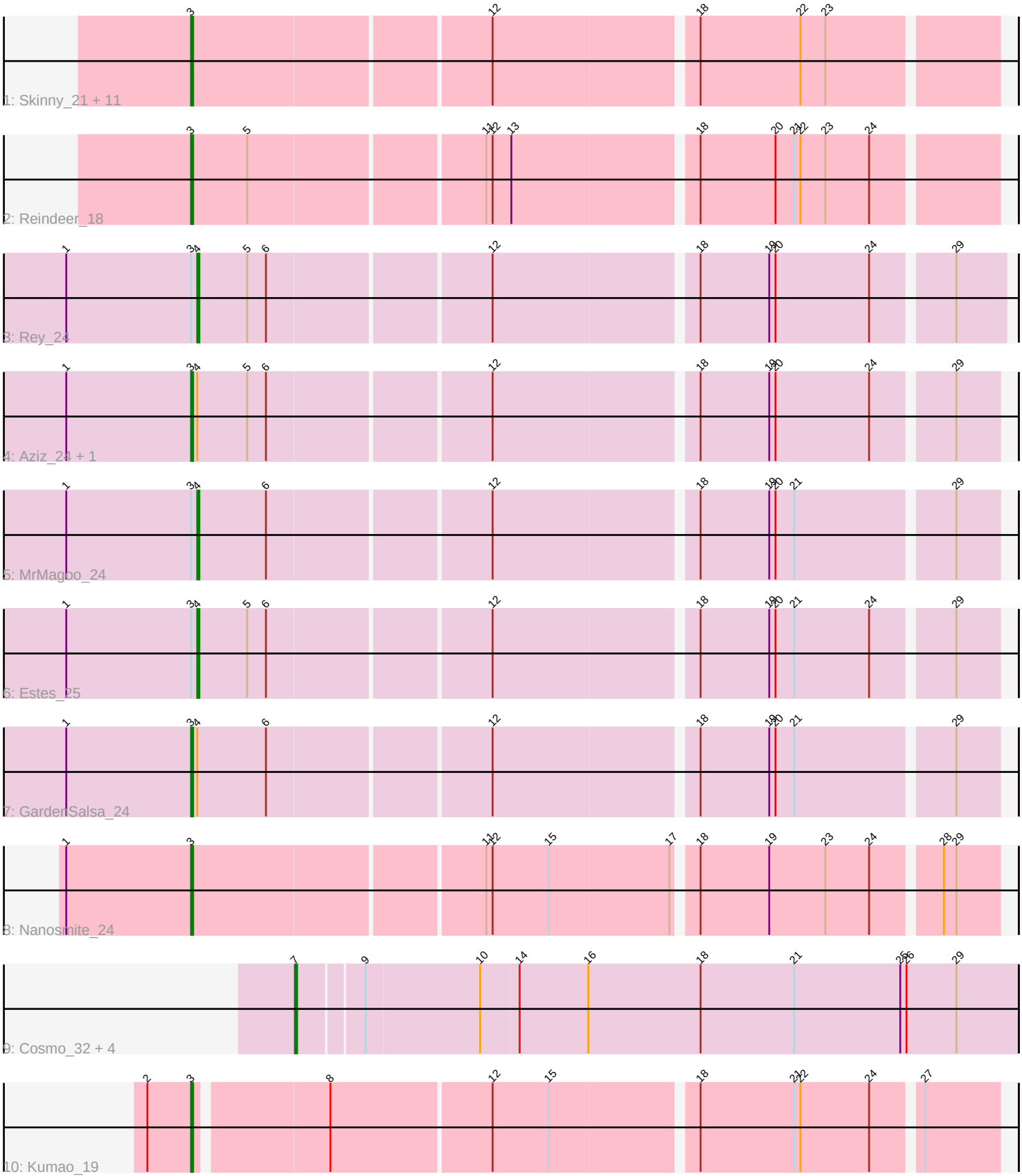
Pham 196771


1: Skinny_21 + 11
2: Reindeer_18
3: Rey_24
4: Aziz_24 + 1
5: MrMagoo_24
6: Estes_25
7: GardenSalsa_24
8: Nanosmite_24
9: Cosmo_32 + 4
10: Kumao_19

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 196771 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196771 has 26 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Skinny_21, PegLeg_20, Auspice_20, Glaske16_21, Bricole_20, SlimJimmy_19, TyDawg_20, IPhane7_20, Dulcita_21, Diminimus_21, LilhomieP_19, Bongo_20
• Track 2 : Reindeer_18
• Track 3 : Rey_24
• Track 4 : Aziz_24, GenevaB15_24
• Track 5 : MrMagoo_24
• Track 6 : Estes_25
• Track 7 : GardenSalsa_24
• Track 8 : Nanosmite_24
• Track 9 : Cosmo_32, MaryV_32, Wildcat_32, Azrael100_31, EniyanLRS_29
• Track 10 : Kumao_19

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 18 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auspice_20, Aziz_24, Bongo_20, Bricole_20, Diminimus_21, Dulcita_21, GardenSalsa_24, GenevaB15_24, Glaske16_21, IPhane7_20, Kumao_19, LilhomieP_19, Nanosmite_24, PegLeg_20, Reindeer_18, Skinny_21, SlimJimmy_19, TyDawg_20,

Genes that have the "Most Annotated" start but do not call it:
• Estes_25, MrMagoo_24, Rey_24,

Genes that do not have the "Most Annotated" start:
• Azrael100_31, Cosmo_32, EniyanLRS_29, MaryV_32, Wildcat_32,

Summary by start number:

Start 3:
• Found in 21 of 26 (80.8%) of genes in pham

• Manual Annotations of this start: 18 of 26
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Auspice_20 (M1), Aziz_24 (M2), Bongo_20 (M1), Bricole_20 (M1), Diminimus_21 (M1), Dulcita_21 (M1), GardenSalsa_24 (M2), GenevaB15_24 (M2), Glaske16_21 (M1), IPhane7_20 (M1), Kumao_19 (singleton), LilhomieP_19 (M1), Nanosmite_24 (M3), PegLeg_20 (M1), Reindeer_18 (M1), Skinny_21 (M1), SlimJimmy_19 (M1), TyDawg_20 (M1),

Start 4:
• Found in 6 of 26 (23.1%) of genes in pham
• Manual Annotations of this start: 3 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Estes_25 (M2), MrMagoo_24 (M2), Rey_24 (M2),

Start 7:
• Found in 5 of 26 (19.2%) of genes in pham
• Manual Annotations of this start: 5 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_31 (V), Cosmo_32 (V), EniyanLRS_29 (V), MaryV_32 (V), Wildcat_32 (V),

Summary by clusters:

There are 5 clusters represented in this pham: singleton, M2, M1, M3, V,

Info for manual annotations of cluster M1:
•Start number 3 was manually annotated 13 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 3 was manually annotated 3 times for cluster M2.
•Start number 4 was manually annotated 3 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 3 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:
•Start number 7 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Auspice_20 Start: 11510, Stop: 11878, Start Num: 3
Candidate Starts for Auspice_20:
(Start: 3 @11510 has 18 MA's), (12, 11648), (18, 11741), (22, 11789), (23, 11801),

Gene: Aziz_24 Start: 12073, Stop: 12441, Start Num: 3
Candidate Starts for Aziz_24:
(1, 12013), (Start: 3 @12073 has 18 MA's), (Start: 4 @12076 has 3 MA's), (5, 12100), (6, 12109), (12, 12211), (18, 12304), (19, 12337), (20, 12340), (24, 12385), (29, 12421),

Gene: Azrael100_31 Start: 14635, Stop: 14976, Start Num: 7

Candidate Starts for Azrael100_31:
(Start: 7 @14635 has 5 MA's), (9, 14665), (10, 14719), (14, 14737), (16, 14770), (18, 14824), (21, 14869), (25, 14920), (26, 14923), (29, 14947),

Gene: Bongo_20 Start: 11510, Stop: 11878, Start Num: 3
Candidate Starts for Bongo_20:
(Start: 3 @11510 has 18 MA's), (12, 11648), (18, 11741), (22, 11789), (23, 11801),

Gene: Bricole_20 Start: 11509, Stop: 11877, Start Num: 3
Candidate Starts for Bricole_20:
(Start: 3 @11509 has 18 MA's), (12, 11647), (18, 11740), (22, 11788), (23, 11800),

Gene: Cosmo_32 Start: 14642, Stop: 14983, Start Num: 7
Candidate Starts for Cosmo_32:
(Start: 7 @14642 has 5 MA's), (9, 14672), (10, 14726), (14, 14744), (16, 14777), (18, 14831), (21, 14876), (25, 14927), (26, 14930), (29, 14954),

Gene: Diminimus_21 Start: 11509, Stop: 11877, Start Num: 3
Candidate Starts for Diminimus_21:
(Start: 3 @11509 has 18 MA's), (12, 11647), (18, 11740), (22, 11788), (23, 11800),

Gene: Dulcita_21 Start: 11509, Stop: 11877, Start Num: 3
Candidate Starts for Dulcita_21:
(Start: 3 @11509 has 18 MA's), (12, 11647), (18, 11740), (22, 11788), (23, 11800),

Gene: EniyanLRS_29 Start: 14336, Stop: 14677, Start Num: 7
Candidate Starts for EniyanLRS_29:
(Start: 7 @14336 has 5 MA's), (9, 14366), (10, 14420), (14, 14438), (16, 14471), (18, 14525), (21, 14570), (25, 14621), (26, 14624), (29, 14648),

Gene: Estes_25 Start: 12213, Stop: 12578, Start Num: 4
Candidate Starts for Estes_25:
(1, 12150), (Start: 3 @12210 has 18 MA's), (Start: 4 @12213 has 3 MA's), (5, 12237), (6, 12246), (12, 12348), (18, 12441), (19, 12474), (20, 12477), (21, 12486), (24, 12522), (29, 12558),

Gene: GardenSalsa_24 Start: 12046, Stop: 12414, Start Num: 3
Candidate Starts for GardenSalsa_24:
(1, 11986), (Start: 3 @12046 has 18 MA's), (Start: 4 @12049 has 3 MA's), (6, 12082), (12, 12184), (18, 12277), (19, 12310), (20, 12313), (21, 12322), (29, 12394),

Gene: GenevaB15_24 Start: 12073, Stop: 12441, Start Num: 3
Candidate Starts for GenevaB15_24:
(1, 12013), (Start: 3 @12073 has 18 MA's), (Start: 4 @12076 has 3 MA's), (5, 12100), (6, 12109), (12, 12211), (18, 12304), (19, 12337), (20, 12340), (24, 12385), (29, 12421),

Gene: Glaske16_21 Start: 11509, Stop: 11877, Start Num: 3
Candidate Starts for Glaske16_21:
(Start: 3 @11509 has 18 MA's), (12, 11647), (18, 11740), (22, 11788), (23, 11800),

Gene: IPhane7_20 Start: 11510, Stop: 11878, Start Num: 3
Candidate Starts for IPhane7_20:
(Start: 3 @11510 has 18 MA's), (12, 11648), (18, 11741), (22, 11789), (23, 11801),

Gene: Kumao_19 Start: 10846, Stop: 11211, Start Num: 3
Candidate Starts for Kumao_19:
(2, 10825), (Start: 3 @10846 has 18 MA's), (8, 10906), (12, 10981), (15, 11008), (18, 11074), (21, 11119), (22, 11122), (24, 11155), (27, 11176),

Gene: LilhomieP_19 Start: 11510, Stop: 11878, Start Num: 3
Candidate Starts for LilhomieP_19:
(Start: 3 @11510 has 18 MA's), (12, 11648), (18, 11741), (22, 11789), (23, 11801),

Gene: MaryV_32 Start: 14608, Stop: 14949, Start Num: 7
Candidate Starts for MaryV_32:
(Start: 7 @14608 has 5 MA's), (9, 14638), (10, 14692), (14, 14710), (16, 14743), (18, 14797), (21, 14842), (25, 14893), (26, 14896), (29, 14920),

Gene: MrMagoo_24 Start: 12049, Stop: 12414, Start Num: 4
Candidate Starts for MrMagoo_24:
(1, 11986), (Start: 3 @12046 has 18 MA's), (Start: 4 @12049 has 3 MA's), (6, 12082), (12, 12184), (18, 12277), (19, 12310), (20, 12313), (21, 12322), (29, 12394),

Gene: Nanosmite_24 Start: 12264, Stop: 12632, Start Num: 3
Candidate Starts for Nanosmite_24:
(1, 12204), (Start: 3 @12264 has 18 MA's), (11, 12399), (12, 12402), (15, 12429), (17, 12486), (18, 12495), (19, 12528), (23, 12555), (24, 12576), (28, 12606), (29, 12612),

Gene: PegLeg_20 Start: 11509, Stop: 11877, Start Num: 3
Candidate Starts for PegLeg_20:
(Start: 3 @11509 has 18 MA's), (12, 11647), (18, 11740), (22, 11788), (23, 11800),

Gene: Reindeer_18 Start: 11362, Stop: 11730, Start Num: 3
Candidate Starts for Reindeer_18:
(Start: 3 @11362 has 18 MA's), (5, 11389), (11, 11497), (12, 11500), (13, 11509), (18, 11593), (20, 11629), (21, 11638), (22, 11641), (23, 11653), (24, 11674),

Gene: Rey_24 Start: 12284, Stop: 12652, Start Num: 4
Candidate Starts for Rey_24:
(1, 12221), (Start: 3 @12281 has 18 MA's), (Start: 4 @12284 has 3 MA's), (5, 12308), (6, 12317), (12, 12419), (18, 12512), (19, 12545), (20, 12548), (24, 12593), (29, 12629),

Gene: Skinny_21 Start: 11510, Stop: 11878, Start Num: 3
Candidate Starts for Skinny_21:
(Start: 3 @11510 has 18 MA's), (12, 11648), (18, 11741), (22, 11789), (23, 11801),

Gene: SlimJimmy_19 Start: 11509, Stop: 11877, Start Num: 3
Candidate Starts for SlimJimmy_19:
(Start: 3 @11509 has 18 MA's), (12, 11647), (18, 11740), (22, 11788), (23, 11800),

Gene: TyDawg_20 Start: 11510, Stop: 11878, Start Num: 3
Candidate Starts for TyDawg_20:
(Start: 3 @11510 has 18 MA's), (12, 11648), (18, 11741), (22, 11789), (23, 11801),

Gene: Wildcat_32 Start: 14618, Stop: 14959, Start Num: 7
Candidate Starts for Wildcat_32:

(Start: 7 @14618 has 5 MA's), (9, 14648), (10, 14702), (14, 14720), (16, 14753), (18, 14807), (21, 14852), (25, 14903), (26, 14906), (29, 14930),