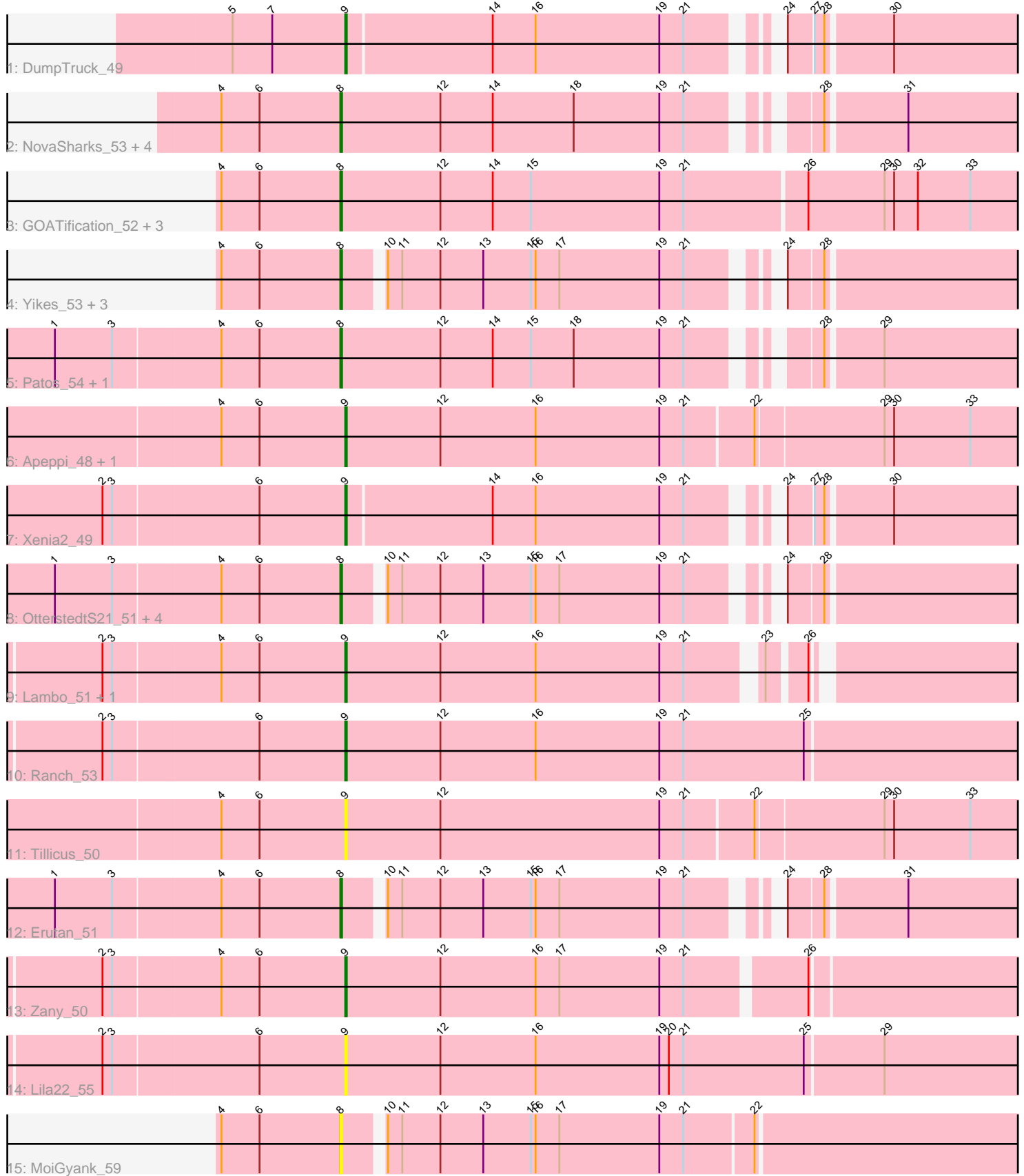


Pham 86315



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 86315 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86315 has 32 members, 7 are drafts.

Phages represented in each track:

- Track 1 : DumpTruck_49
- Track 2 : NovaSharks_53, Rumi_52, Alyssamiracle_54, Avian_51, Genamy16_54
- Track 3 : GOATification_52, Fulcrum_52, BirthdayBoy_54, ParvusTarda_51
- Track 4 : Yikes_53, Penjamin420_54, GretelLyn_51, Sadboi_52
- Track 5 : Patos_54, NorManre_54
- Track 6 : Apeppi_48, LuckyLeo_50
- Track 7 : Xenia2_49
- Track 8 : OtterstedtS21_51, Jalebi_51, Gibbin_53, DoobyDoo_51, Sampudon_52
- Track 9 : Lambo_51, Wojtek_50
- Track 10 : Ranch_53
- Track 11 : Tillicus_50
- Track 12 : Erutan_51
- Track 13 : Zany_50
- Track 14 : Lila22_55
- Track 15 : MoiGyank_59

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

The start number called the most often in the published annotations is 8, it was called in 18 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alyssamiracle_54, Avian_51, BirthdayBoy_54, DoobyDoo_51, Erutan_51, Fulcrum_52, GOATification_52, Genamy16_54, Gibbin_53, GretelLyn_51, Jalebi_51, MoiGyank_59, NorManre_54, NovaSharks_53, OtterstedtS21_51, ParvusTarda_51, Patos_54, Penjamin420_54, Rumi_52, Sadboi_52, Sampudon_52, Yikes_53,

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

-

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

- Apeppi_48, DumpTruck_49, Lambo_51, Lila22_55, LuckyLeo_50, Ranch_53, Tillicus_50, Wojtek_50, Xenia2_49, Zany_50,

Summary by start number:

Start 8:

- Found in 22 of 32 (68.8%) of genes in pham
- Manual Annotations of this start: 18 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_54 (DV), Avian_51 (DV), BirthdayBoy_54 (DV), DoobyDoo_51 (DV), Erutan_51 (DV), Fulcrum_52 (DV), GOATification_52 (DV), Genamy16_54 (DV), Gibbin_53 (DV), Gretellyn_51 (DV), Jalebi_51 (DV), MoiGyank_59 (DV), NorManre_54 (DV), NovaSharks_53 (DV), OtterstedtS21_51 (DV), ParvusTarda_51 (DV), Patos_54 (DV), Penjamin420_54 (DV), Rumi_52 (DV), Sadboi_52 (DV), Sampudon_52 (DV), Yikes_53 (DV),

Start 9:

- Found in 10 of 32 (31.2%) of genes in pham
- Manual Annotations of this start: 7 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apeppi_48 (DV), DumpTruck_49 (DV), Lambo_51 (DV), Lila22_55 (DV), LuckyLeo_50 (DV), Ranch_53 (DV), Tillicus_50 (DV), Wojtek_50 (DV), Xenia2_49 (DV), Zany_50 (DV),

Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:

- Start number 8 was manually annotated 18 times for cluster DV.
- Start number 9 was manually annotated 7 times for cluster DV.

Gene Information:

Gene: Alyssamiracle_54 Start: 37176, Stop: 37592, Start Num: 8

Candidate Starts for Alyssamiracle_54:

(4, 37101), (6, 37125), (Start: 8 @37176 has 18 MA's), (12, 37239), (14, 37272), (18, 37323), (19, 37377), (21, 37392), (28, 37452), (31, 37500),

Gene: Apeppi_48 Start: 37376, Stop: 37816, Start Num: 9

Candidate Starts for Apeppi_48:

(4, 37298), (6, 37322), (Start: 9 @37376 has 7 MA's), (12, 37436), (16, 37496), (19, 37574), (21, 37589), (22, 37631), (29, 37709), (30, 37715), (33, 37763),

Gene: Avian_51 Start: 36904, Stop: 37320, Start Num: 8

Candidate Starts for Avian_51:

(4, 36829), (6, 36853), (Start: 8 @36904 has 18 MA's), (12, 36967), (14, 37000), (18, 37051), (19, 37105), (21, 37120), (28, 37180), (31, 37228),

Gene: BirthdayBoy_54 Start: 38583, Stop: 39029, Start Num: 8

Candidate Starts for BirthdayBoy_54:

(4, 38508), (6, 38532), (Start: 8 @38583 has 18 MA's), (12, 38646), (14, 38679), (15, 38703), (19, 38784), (21, 38799), (26, 38874), (29, 38922), (30, 38928), (32, 38943), (33, 38976),

Gene: DoobyDoo_51 Start: 37116, Stop: 37523, Start Num: 8

Candidate Starts for DoobyDoo_51:

(1, 36939), (3, 36975), (4, 37041), (6, 37065), (Start: 8 @37116 has 18 MA's), (10, 37137), (11, 37146), (12, 37170), (13, 37197), (15, 37227), (16, 37230), (17, 37245), (19, 37308), (21, 37323), (24, 37362), (28, 37383),

Gene: DumpTruck_49 Start: 36535, Stop: 36942, Start Num: 9

Candidate Starts for DumpTruck_49:

(5, 36466), (7, 36490), (Start: 9 @36535 has 7 MA's), (14, 36625), (16, 36652), (19, 36730), (21, 36745), (24, 36784), (27, 36799), (28, 36805), (30, 36844),

Gene: Erutan_51 Start: 37650, Stop: 38057, Start Num: 8

Candidate Starts for Erutan_51:

(1, 37473), (3, 37509), (4, 37575), (6, 37599), (Start: 8 @37650 has 18 MA's), (10, 37671), (11, 37680), (12, 37704), (13, 37731), (15, 37761), (16, 37764), (17, 37779), (19, 37842), (21, 37857), (24, 37896), (28, 37917), (31, 37965),

Gene: Fulcrum_52 Start: 37877, Stop: 38323, Start Num: 8

Candidate Starts for Fulcrum_52:

(4, 37802), (6, 37826), (Start: 8 @37877 has 18 MA's), (12, 37940), (14, 37973), (15, 37997), (19, 38078), (21, 38093), (26, 38168), (29, 38216), (30, 38222), (32, 38237), (33, 38270),

Gene: GOATification_52 Start: 37877, Stop: 38323, Start Num: 8

Candidate Starts for GOATification_52:

(4, 37802), (6, 37826), (Start: 8 @37877 has 18 MA's), (12, 37940), (14, 37973), (15, 37997), (19, 38078), (21, 38093), (26, 38168), (29, 38216), (30, 38222), (32, 38237), (33, 38270),

Gene: Genamy16_54 Start: 37162, Stop: 37578, Start Num: 8

Candidate Starts for Genamy16_54:

(4, 37087), (6, 37111), (Start: 8 @37162 has 18 MA's), (12, 37225), (14, 37258), (18, 37309), (19, 37363), (21, 37378), (28, 37438), (31, 37486),

Gene: Gibbin_53 Start: 38533, Stop: 38940, Start Num: 8

Candidate Starts for Gibbin_53:

(1, 38356), (3, 38392), (4, 38458), (6, 38482), (Start: 8 @38533 has 18 MA's), (10, 38554), (11, 38563), (12, 38587), (13, 38614), (15, 38644), (16, 38647), (17, 38662), (19, 38725), (21, 38740), (24, 38779), (28, 38800),

Gene: Gretellyn_51 Start: 38607, Stop: 39014, Start Num: 8

Candidate Starts for Gretellyn_51:

(4, 38532), (6, 38556), (Start: 8 @38607 has 18 MA's), (10, 38628), (11, 38637), (12, 38661), (13, 38688), (15, 38718), (16, 38721), (17, 38736), (19, 38799), (21, 38814), (24, 38853), (28, 38874),

Gene: Jalebi_51 Start: 38952, Stop: 39359, Start Num: 8

Candidate Starts for Jalebi_51:

(1, 38775), (3, 38811), (4, 38877), (6, 38901), (Start: 8 @38952 has 18 MA's), (10, 38973), (11, 38982), (12, 39006), (13, 39033), (15, 39063), (16, 39066), (17, 39081), (19, 39144), (21, 39159), (24, 39198), (28, 39219),

Gene: Lambo_51 Start: 37978, Stop: 38391, Start Num: 9

Candidate Starts for Lambo_51:

(2, 37828), (3, 37834), (4, 37900), (6, 37924), (Start: 9 @37978 has 7 MA's), (12, 38038), (16, 38098), (19, 38176), (21, 38191), (23, 38230), (26, 38251),

Gene: Lila22_55 Start: 38575, Stop: 39018, Start Num: 9

Candidate Starts for Lila22_55:

(2, 38425), (3, 38431), (6, 38521), (Start: 9 @38575 has 7 MA's), (12, 38635), (16, 38695), (19, 38773), (20, 38779), (21, 38788), (25, 38863), (29, 38911),

Gene: LuckyLeo_50 Start: 37376, Stop: 37816, Start Num: 9

Candidate Starts for LuckyLeo_50:

(4, 37298), (6, 37322), (Start: 9 @37376 has 7 MA's), (12, 37436), (16, 37496), (19, 37574), (21, 37589), (22, 37631), (29, 37709), (30, 37715), (33, 37763),

Gene: MoiGyank_59 Start: 39021, Stop: 39455, Start Num: 8

Candidate Starts for MoiGyank_59:

(4, 38946), (6, 38970), (Start: 8 @39021 has 18 MA's), (10, 39042), (11, 39051), (12, 39075), (13, 39102), (15, 39132), (16, 39135), (17, 39150), (19, 39213), (21, 39228), (22, 39270),

Gene: NorManre_54 Start: 38233, Stop: 38649, Start Num: 8

Candidate Starts for NorManre_54:

(1, 38056), (3, 38092), (4, 38158), (6, 38182), (Start: 8 @38233 has 18 MA's), (12, 38296), (14, 38329), (15, 38353), (18, 38380), (19, 38434), (21, 38449), (28, 38509), (29, 38542),

Gene: NovaSharks_53 Start: 36753, Stop: 37169, Start Num: 8

Candidate Starts for NovaSharks_53:

(4, 36678), (6, 36702), (Start: 8 @36753 has 18 MA's), (12, 36816), (14, 36849), (18, 36900), (19, 36954), (21, 36969), (28, 37029), (31, 37077),

Gene: OtterstedtS21_51 Start: 37893, Stop: 38300, Start Num: 8

Candidate Starts for OtterstedtS21_51:

(1, 37716), (3, 37752), (4, 37818), (6, 37842), (Start: 8 @37893 has 18 MA's), (10, 37914), (11, 37923), (12, 37947), (13, 37974), (15, 38004), (16, 38007), (17, 38022), (19, 38085), (21, 38100), (24, 38139), (28, 38160),

Gene: ParvusTarda_51 Start: 37395, Stop: 37841, Start Num: 8

Candidate Starts for ParvusTarda_51:

(4, 37320), (6, 37344), (Start: 8 @37395 has 18 MA's), (12, 37458), (14, 37491), (15, 37515), (19, 37596), (21, 37611), (26, 37686), (29, 37734), (30, 37740), (32, 37755), (33, 37788),

Gene: Patos_54 Start: 38232, Stop: 38648, Start Num: 8

Candidate Starts for Patos_54:

(1, 38055), (3, 38091), (4, 38157), (6, 38181), (Start: 8 @38232 has 18 MA's), (12, 38295), (14, 38328), (15, 38352), (18, 38379), (19, 38433), (21, 38448), (28, 38508), (29, 38541),

Gene: Penjamin420_54 Start: 38224, Stop: 38631, Start Num: 8

Candidate Starts for Penjamin420_54:

(4, 38149), (6, 38173), (Start: 8 @38224 has 18 MA's), (10, 38245), (11, 38254), (12, 38278), (13, 38305), (15, 38335), (16, 38338), (17, 38353), (19, 38416), (21, 38431), (24, 38470), (28, 38491),

Gene: Ranch_53 Start: 37065, Stop: 37508, Start Num: 9

Candidate Starts for Ranch_53:

(2, 36915), (3, 36921), (6, 37011), (Start: 9 @37065 has 7 MA's), (12, 37125), (16, 37185), (19, 37263), (21, 37278), (25, 37353),

Gene: Rumi_52 Start: 36450, Stop: 36866, Start Num: 8

Candidate Starts for Rumi_52:

(4, 36375), (6, 36399), (Start: 8 @36450 has 18 MA's), (12, 36513), (14, 36546), (18, 36597), (19, 36651), (21, 36666), (28, 36726), (31, 36774),

Gene: Sadboi_52 Start: 38608, Stop: 39015, Start Num: 8

Candidate Starts for Sadboi_52:

(4, 38533), (6, 38557), (Start: 8 @38608 has 18 MA's), (10, 38629), (11, 38638), (12, 38662), (13, 38689), (15, 38719), (16, 38722), (17, 38737), (19, 38800), (21, 38815), (24, 38854), (28, 38875),

Gene: Sampudon_52 Start: 38952, Stop: 39359, Start Num: 8

Candidate Starts for Sampudon_52:

(1, 38775), (3, 38811), (4, 38877), (6, 38901), (Start: 8 @38952 has 18 MA's), (10, 38973), (11, 38982), (12, 39006), (13, 39033), (15, 39063), (16, 39066), (17, 39081), (19, 39144), (21, 39159), (24, 39198), (28, 39219),

Gene: Tillicus_50 Start: 37317, Stop: 37757, Start Num: 9

Candidate Starts for Tillicus_50:

(4, 37239), (6, 37263), (Start: 9 @37317 has 7 MA's), (12, 37377), (19, 37515), (21, 37530), (22, 37572), (29, 37650), (30, 37656), (33, 37704),

Gene: Wojtek_50 Start: 37397, Stop: 37810, Start Num: 9

Candidate Starts for Wojtek_50:

(2, 37247), (3, 37253), (4, 37319), (6, 37343), (Start: 9 @37397 has 7 MA's), (12, 37457), (16, 37517), (19, 37595), (21, 37610), (23, 37649), (26, 37670),

Gene: Xenia2_49 Start: 36282, Stop: 36689, Start Num: 9

Candidate Starts for Xenia2_49:

(2, 36132), (3, 36138), (6, 36228), (Start: 9 @36282 has 7 MA's), (14, 36372), (16, 36399), (19, 36477), (21, 36492), (24, 36531), (27, 36546), (28, 36552), (30, 36591),

Gene: Yikes_53 Start: 39019, Stop: 39426, Start Num: 8

Candidate Starts for Yikes_53:

(4, 38944), (6, 38968), (Start: 8 @39019 has 18 MA's), (10, 39040), (11, 39049), (12, 39073), (13, 39100), (15, 39130), (16, 39133), (17, 39148), (19, 39211), (21, 39226), (24, 39265), (28, 39286),

Gene: Zany_50 Start: 38009, Stop: 38437, Start Num: 9

Candidate Starts for Zany_50:

(2, 37859), (3, 37865), (4, 37931), (6, 37955), (Start: 9 @38009 has 7 MA's), (12, 38069), (16, 38129), (17, 38144), (19, 38207), (21, 38222), (26, 38291),