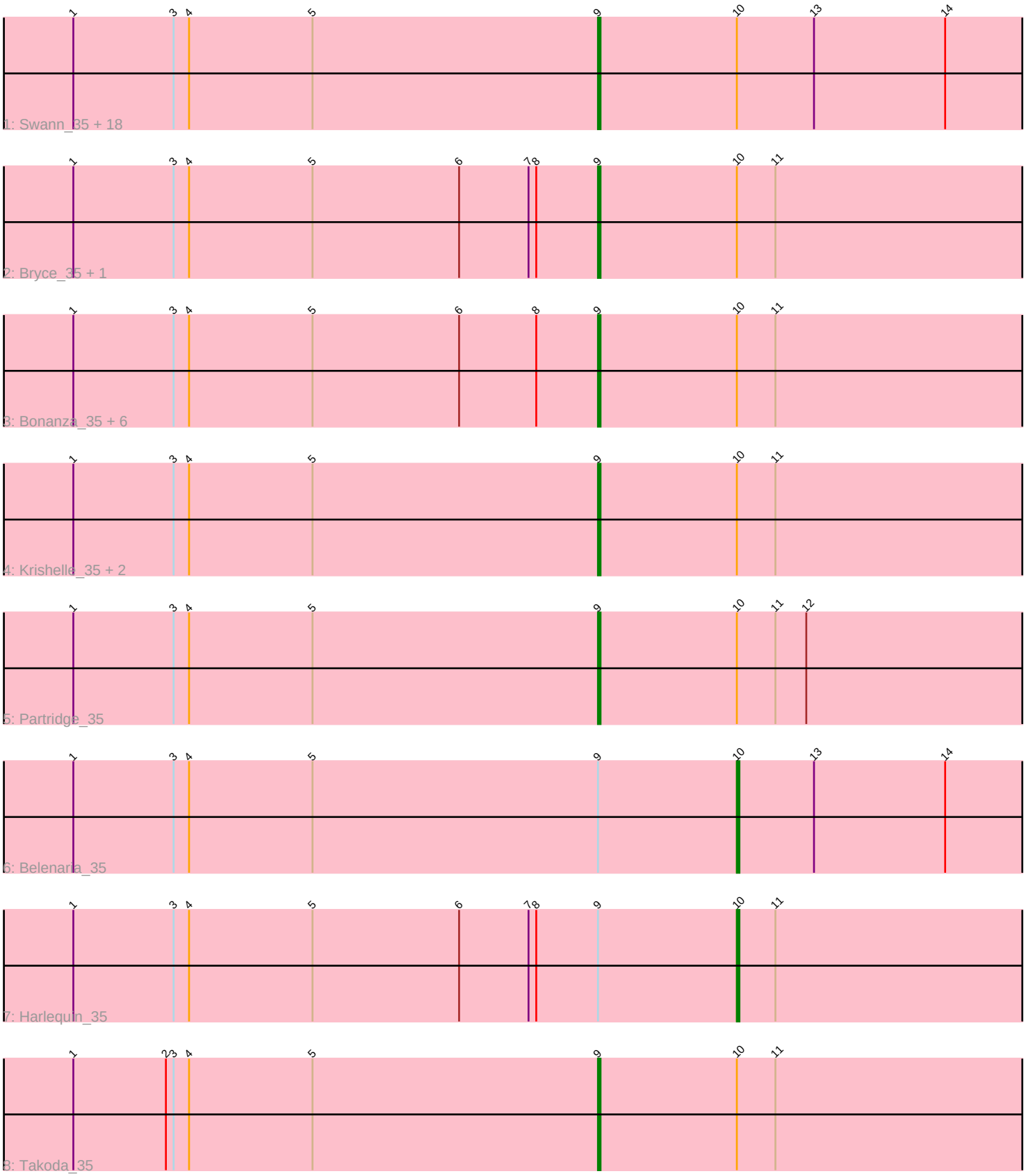
Pham 152104


1: Swann_35 + 18
2: Bryce_35 + 1
3: Bonanza_35 + 6
4: Krishelle_35 + 2
5: Partridge_35
6: Belenaria_35
7: Harlequin_35
8: Takoda_35

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 152104 Report

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

Pham number 152104 has 35 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Swann_35, CosmicSans_35, Phrankenstein_35, Rhodalysa_35, Natosaleda_35, Erik_35, Naiad_35, Lillie_35, Nancinator_35, Alatin_35, RexFury_35, Shuman_35, Gollum_35, Espica_35, Rasputin_35, UhSalsa_35, StCroix_35, Bradshaw_35, TWAMP_35
• Track 2 : Bryce_35, Jester_35
• Track 3 : Bonanza_35, PhailMary_34, RER2_28, Yogi_35, Hiro_35, Alpacados_34, Yoncess_35
• Track 4 : Krishelle_35, AppleCloud_33, Dinger_35
• Track 5 : Partridge_35
• Track 6 : Belenaria_35
• Track 7 : Harlequin_35
• Track 8 : Takoda_35

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 32 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alatin_35, Alpacados_34, AppleCloud_33, Bonanza_35, Bradshaw_35, Bryce_35, CosmicSans_35, Dinger_35, Erik_35, Espica_35, Gollum_35, Hiro_35, Jester_35, Krishelle_35, Lillie_35, Naiad_35, Nancinator_35, Natosaleda_35, Partridge_35, PhailMary_34, Phrankenstein_35, RER2_28, Rasputin_35, RexFury_35, Rhodalysa_35, Shuman_35, StCroix_35, Swann_35, TWAMP_35, Takoda_35, UhSalsa_35, Yogi_35, Yoncess_35,

Genes that have the "Most Annotated" start but do not call it:
• Belenaria_35, Harlequin_35,

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

Summary by start number:

Start 9:
• Found in 35 of 35 (100.0%) of genes in pham
• Manual Annotations of this start: 32 of 34
• Called 94.3% of time when present
• Phage (with cluster) where this start called: Alatin_35 (CA), Alpacados_34 (CA), AppleCloud_33 (CA), Bonanza_35 (CA), Bradshaw_35 (CA), Bryce_35 (CA), CosmicSans_35 (CA), Dinger_35 (CA), Erik_35 (CA), Espica_35 (CA), Gollum_35 (CA), Hiro_35 (CA), Jester_35 (CA), Krishelle_35 (CA), Lillie_35 (CA), Naiad_35 (CA), Nancinator_35 (CA), Natosaleda_35 (CA), Partridge_35 (CA), PhailMary_34 (CA), Phrankenstein_35 (CA), RER2_28 (CA), Rasputin_35 (CA), RexFury_35 (CA), Rhodalysa_35 (CA), Shuman_35 (CA), StCroix_35 (CA), Swann_35 (CA), TWAMP_35 (CA), Takoda_35 (CA), UhSalsa_35 (CA), Yogi_35 (CA), Yoncess_35 (CA),

Start 10:
• Found in 35 of 35 (100.0%) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 5.7% of time when present
• Phage (with cluster) where this start called: Belenaria_35 (CA), Harlequin_35 (CA),

Summary by clusters:

There is one cluster represented in this pham: CA

Info for manual annotations of cluster CA:
•Start number 9 was manually annotated 32 times for cluster CA.
•Start number 10 was manually annotated 2 times for cluster CA.

Gene Information:

Gene: Alatin_35 Start: 26385, Stop: 26179, Start Num: 9
Candidate Starts for Alatin_35:
(1, 26589), (3, 26550), (4, 26544), (5, 26496), (Start: 9 @26385 has 32 MA's), (Start: 10 @26331 has 2 MA's), (13, 26301), (14, 26250),

Gene: Alpacados_34 Start: 26290, Stop: 26084, Start Num: 9
Candidate Starts for Alpacados_34:
(1, 26494), (3, 26455), (4, 26449), (5, 26401), (6, 26344), (8, 26314), (Start: 9 @26290 has 32 MA's), (Start: 10 @26236 has 2 MA's), (11, 26221),

Gene: AppleCloud_33 Start: 26260, Stop: 26054, Start Num: 9
Candidate Starts for AppleCloud_33:
(1, 26464), (3, 26425), (4, 26419), (5, 26371), (Start: 9 @26260 has 32 MA's), (Start: 10 @26206 has 2 MA's), (11, 26191),

Gene: Belenaria_35 Start: 26265, Stop: 26113, Start Num: 10
Candidate Starts for Belenaria_35:
(1, 26523), (3, 26484), (4, 26478), (5, 26430), (Start: 9 @26319 has 32 MA's), (Start: 10 @26265 has 2 MA's), (13, 26235), (14, 26184),

Gene: Bonanza_35 Start: 26292, Stop: 26086, Start Num: 9

Candidate Starts for Bonanza_35:
(1, 26496), (3, 26457), (4, 26451), (5, 26403), (6, 26346), (8, 26316), (Start: 9 @26292 has 32 MA's), (Start: 10 @26238 has 2 MA's), (11, 26223),

Gene: Bradshaw_35 Start: 26318, Stop: 26112, Start Num: 9
Candidate Starts for Bradshaw_35:
(1, 26522), (3, 26483), (4, 26477), (5, 26429), (Start: 9 @26318 has 32 MA's), (Start: 10 @26264 has 2 MA's), (13, 26234), (14, 26183),

Gene: Bryce_35 Start: 26293, Stop: 26087, Start Num: 9
Candidate Starts for Bryce_35:
(1, 26497), (3, 26458), (4, 26452), (5, 26404), (6, 26347), (7, 26320), (8, 26317), (Start: 9 @26293 has 32 MA's), (Start: 10 @26239 has 2 MA's), (11, 26224),

Gene: CosmicSans_35 Start: 26318, Stop: 26112, Start Num: 9
Candidate Starts for CosmicSans_35:
(1, 26522), (3, 26483), (4, 26477), (5, 26429), (Start: 9 @26318 has 32 MA's), (Start: 10 @26264 has 2 MA's), (13, 26234), (14, 26183),

Gene: Dinger_35 Start: 26302, Stop: 26096, Start Num: 9
Candidate Starts for Dinger_35:
(1, 26506), (3, 26467), (4, 26461), (5, 26413), (Start: 9 @26302 has 32 MA's), (Start: 10 @26248 has 2 MA's), (11, 26233),

Gene: Erik_35 Start: 26316, Stop: 26110, Start Num: 9
Candidate Starts for Erik_35:
(1, 26520), (3, 26481), (4, 26475), (5, 26427), (Start: 9 @26316 has 32 MA's), (Start: 10 @26262 has 2 MA's), (13, 26232), (14, 26181),

Gene: Espica_35 Start: 26319, Stop: 26113, Start Num: 9
Candidate Starts for Espica_35:
(1, 26523), (3, 26484), (4, 26478), (5, 26430), (Start: 9 @26319 has 32 MA's), (Start: 10 @26265 has 2 MA's), (13, 26235), (14, 26184),

Gene: Gollum_35 Start: 26318, Stop: 26112, Start Num: 9
Candidate Starts for Gollum_35:
(1, 26522), (3, 26483), (4, 26477), (5, 26429), (Start: 9 @26318 has 32 MA's), (Start: 10 @26264 has 2 MA's), (13, 26234), (14, 26183),

Gene: Harlequin_35 Start: 26269, Stop: 26117, Start Num: 10
Candidate Starts for Harlequin_35:
(1, 26527), (3, 26488), (4, 26482), (5, 26434), (6, 26377), (7, 26350), (8, 26347), (Start: 9 @26323 has 32 MA's), (Start: 10 @26269 has 2 MA's), (11, 26254),

Gene: Hiro_35 Start: 26578, Stop: 26372, Start Num: 9
Candidate Starts for Hiro_35:
(1, 26782), (3, 26743), (4, 26737), (5, 26689), (6, 26632), (8, 26602), (Start: 9 @26578 has 32 MA's), (Start: 10 @26524 has 2 MA's), (11, 26509),

Gene: Jester_35 Start: 26254, Stop: 26048, Start Num: 9
Candidate Starts for Jester_35:
(1, 26458), (3, 26419), (4, 26413), (5, 26365), (6, 26308), (7, 26281), (8, 26278), (Start: 9 @26254 has 32 MA's), (Start: 10 @26200 has 2 MA's), (11, 26185),

Gene: Krishelle_35 Start: 26602, Stop: 26396, Start Num: 9
Candidate Starts for Krishelle_35:
(1, 26806), (3, 26767), (4, 26761), (5, 26713), (Start: 9 @26602 has 32 MA's), (Start: 10 @26548 has 2 MA's), (11, 26533),

Gene: Lillie_35 Start: 26318, Stop: 26112, Start Num: 9
Candidate Starts for Lillie_35:
(1, 26522), (3, 26483), (4, 26477), (5, 26429), (Start: 9 @26318 has 32 MA's), (Start: 10 @26264 has 2 MA's), (13, 26234), (14, 26183),

Gene: Naiad_35 Start: 26331, Stop: 26125, Start Num: 9
Candidate Starts for Naiad_35:
(1, 26535), (3, 26496), (4, 26490), (5, 26442), (Start: 9 @26331 has 32 MA's), (Start: 10 @26277 has 2 MA's), (13, 26247), (14, 26196),

Gene: Nancinator_35 Start: 26319, Stop: 26113, Start Num: 9
Candidate Starts for Nancinator_35:
(1, 26523), (3, 26484), (4, 26478), (5, 26430), (Start: 9 @26319 has 32 MA's), (Start: 10 @26265 has 2 MA's), (13, 26235), (14, 26184),

Gene: Natosaleda_35 Start: 26318, Stop: 26112, Start Num: 9
Candidate Starts for Natosaleda_35:
(1, 26522), (3, 26483), (4, 26477), (5, 26429), (Start: 9 @26318 has 32 MA's), (Start: 10 @26264 has 2 MA's), (13, 26234), (14, 26183),

Gene: Partridge_35 Start: 26401, Stop: 26195, Start Num: 9
Candidate Starts for Partridge_35:
(1, 26605), (3, 26566), (4, 26560), (5, 26512), (Start: 9 @26401 has 32 MA's), (Start: 10 @26347 has 2 MA's), (11, 26332), (12, 26320),

Gene: PhailMary_34 Start: 26640, Stop: 26434, Start Num: 9
Candidate Starts for PhailMary_34:
(1, 26844), (3, 26805), (4, 26799), (5, 26751), (6, 26694), (8, 26664), (Start: 9 @26640 has 32 MA's), (Start: 10 @26586 has 2 MA's), (11, 26571),

Gene: Phrankenstein_35 Start: 26264, Stop: 26058, Start Num: 9
Candidate Starts for Phrankenstein_35:
(1, 26468), (3, 26429), (4, 26423), (5, 26375), (Start: 9 @26264 has 32 MA's), (Start: 10 @26210 has 2 MA's), (13, 26180), (14, 26129),

Gene: RER2_28 Start: 23190, Stop: 22984, Start Num: 9
Candidate Starts for RER2_28:
(1, 23394), (3, 23355), (4, 23349), (5, 23301), (6, 23244), (8, 23214), (Start: 9 @23190 has 32 MA's), (Start: 10 @23136 has 2 MA's), (11, 23121),

Gene: Rasputin_35 Start: 26288, Stop: 26082, Start Num: 9
Candidate Starts for Rasputin_35:
(1, 26492), (3, 26453), (4, 26447), (5, 26399), (Start: 9 @26288 has 32 MA's), (Start: 10 @26234 has 2 MA's), (13, 26204), (14, 26153),

Gene: RexFury_35 Start: 26349, Stop: 26143, Start Num: 9
Candidate Starts for RexFury_35:

(1, 26553), (3, 26514), (4, 26508), (5, 26460), (Start: 9 @26349 has 32 MA's), (Start: 10 @26295 has 2 MA's), (13, 26265), (14, 26214),

Gene: Rhodalysa_35 Start: 26318, Stop: 26112, Start Num: 9
Candidate Starts for Rhodalysa_35:
(1, 26522), (3, 26483), (4, 26477), (5, 26429), (Start: 9 @26318 has 32 MA's), (Start: 10 @26264 has 2 MA's), (13, 26234), (14, 26183),

Gene: Shuman_35 Start: 26331, Stop: 26125, Start Num: 9
Candidate Starts for Shuman_35:
(1, 26535), (3, 26496), (4, 26490), (5, 26442), (Start: 9 @26331 has 32 MA's), (Start: 10 @26277 has 2 MA's), (13, 26247), (14, 26196),

Gene: StCroix_35 Start: 26331, Stop: 26125, Start Num: 9
Candidate Starts for StCroix_35:
(1, 26535), (3, 26496), (4, 26490), (5, 26442), (Start: 9 @26331 has 32 MA's), (Start: 10 @26277 has 2 MA's), (13, 26247), (14, 26196),

Gene: Swann_35 Start: 26318, Stop: 26112, Start Num: 9
Candidate Starts for Swann_35:
(1, 26522), (3, 26483), (4, 26477), (5, 26429), (Start: 9 @26318 has 32 MA's), (Start: 10 @26264 has 2 MA's), (13, 26234), (14, 26183),

Gene: TWAMP_35 Start: 26318, Stop: 26112, Start Num: 9
Candidate Starts for TWAMP_35:
(1, 26522), (3, 26483), (4, 26477), (5, 26429), (Start: 9 @26318 has 32 MA's), (Start: 10 @26264 has 2 MA's), (13, 26234), (14, 26183),

Gene: Takoda_35 Start: 26291, Stop: 26085, Start Num: 9
Candidate Starts for Takoda_35:
(1, 26495), (2, 26459), (3, 26456), (4, 26450), (5, 26402), (Start: 9 @26291 has 32 MA's), (Start: 10 @26237 has 2 MA's), (11, 26222),

Gene: UhSalsa_35 Start: 26319, Stop: 26113, Start Num: 9
Candidate Starts for UhSalsa_35:
(1, 26523), (3, 26484), (4, 26478), (5, 26430), (Start: 9 @26319 has 32 MA's), (Start: 10 @26265 has 2 MA's), (13, 26235), (14, 26184),

Gene: Yogi_35 Start: 26292, Stop: 26086, Start Num: 9
Candidate Starts for Yogi_35:
(1, 26496), (3, 26457), (4, 26451), (5, 26403), (6, 26346), (8, 26316), (Start: 9 @26292 has 32 MA's), (Start: 10 @26238 has 2 MA's), (11, 26223),

Gene: Yoncess_35 Start: 26293, Stop: 26087, Start Num: 9
Candidate Starts for Yoncess_35:
(1, 26497), (3, 26458), (4, 26452), (5, 26404), (6, 26347), (8, 26317), (Start: 9 @26293 has 32 MA's), (Start: 10 @26239 has 2 MA's), (11, 26224),