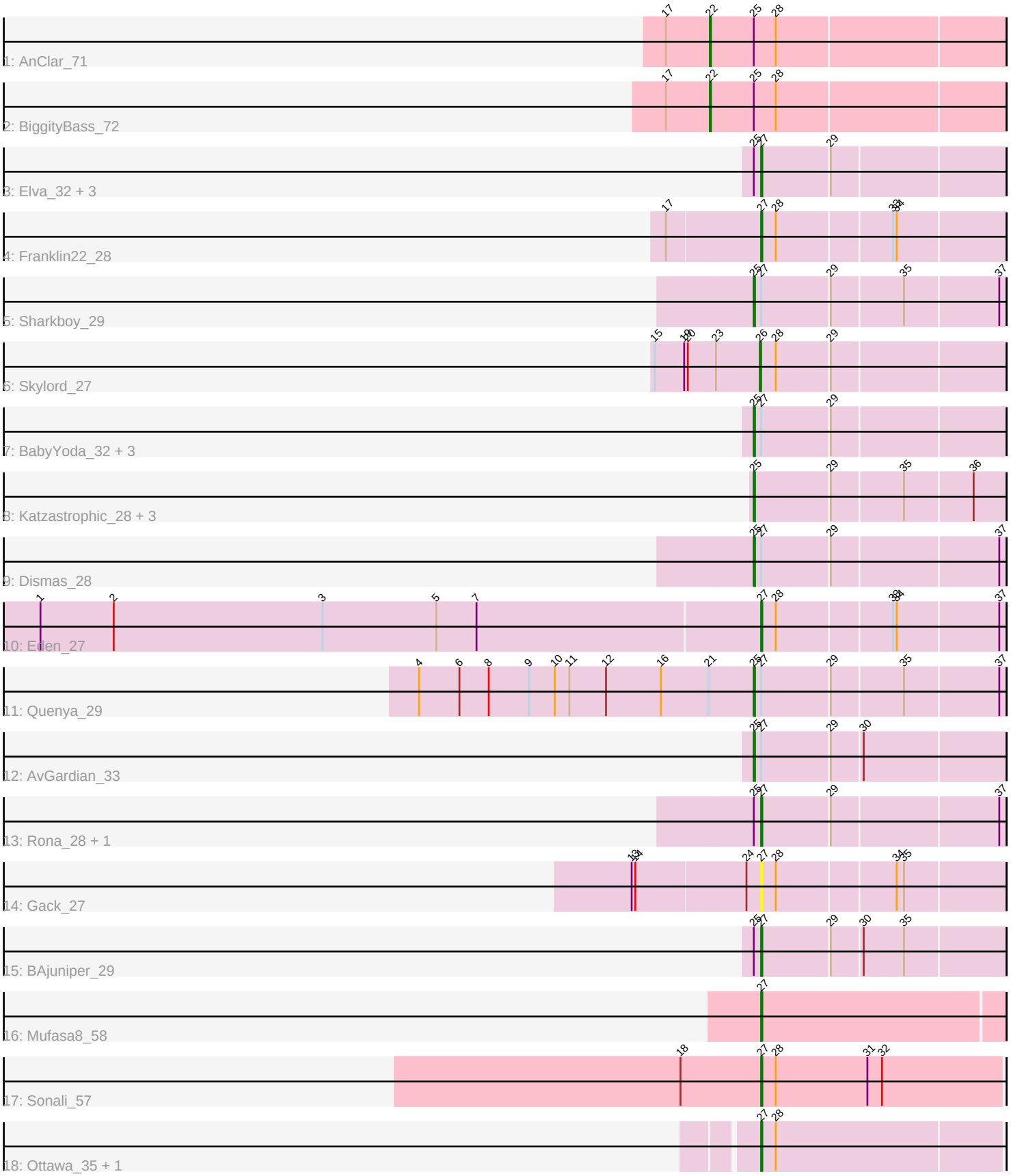
Pham 158085


1: AnClar_71
2: BiggityBass_72
3: Elva_32 + 3
4: Franklin22_28
5: Sharkboy_29
6: Skylord_27
7: BabyYoda_32 + 3
8: Katzastrophic_28 + 3
9: Dismas_28
10: Eden_27
11: Quenya_29
12: AvGardian_33
13: Rona_28 + 1
14: Gack_27
15: BAjuniper_29
16: Mufasa8_58
17: Sonali_57
18: Ottawa_35 + 1

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 158085 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158085 has 29 members, 4 are drafts.

Phages represented in each track:
• Track 1 : AnClar_71
• Track 2 : BiggityBass_72
• Track 3 : Elva_32, Stromboli_32, Icarian_36, Stoor_32
• Track 4 : Franklin22_28
• Track 5 : Sharkboy_29
• Track 6 : Skylord_27
• Track 7 : BabyYoda_32, SanaSana_34, DirtyBubble_31, Loviatar_56
• Track 8 : Katzastrophic_28, Celaena_28, Bachaco_28, FlameThrower_28
• Track 9 : Dismas_28
• Track 10 : Eden_27
• Track 11 : Quenya_29
• Track 12 : AvGardian_33
• Track 13 : Rona_28, Kieran_28
• Track 14 : Gack_27
• Track 15 : BAjuniper_29
• Track 16 : Mufasa8_58
• Track 17 : Sonali_57
• Track 18 : Ottawa_35, Kharcho_35

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

The start number called the most often in the published annotations is 27, it was called in 12 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BAjuniper_29, Eden_27, Elva_32, Franklin22_28, Gack_27, Icarian_36, Kharcho_35, Kieran_28, Mufasa8_58, Ottawa_35, Rona_28, Sonali_57, Stoor_32, Stromboli_32,

Genes that have the "Most Annotated" start but do not call it:
• AvGardian_33, BabyYoda_32, DirtyBubble_31, Dismas_28, Loviatar_56, Quenya_29, SanaSana_34, Sharkboy_29,

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

• AnClar_71, Bachaco_28, BiggityBass_72, Celaena_28, FlameThrower_28, Katzastrophic_28, Skylord_27,

Summary by start number:

Start 22:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 2 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnClar_71 (DR), BiggityBass_72 (DR),

Start 25:
• Found in 21 of 29 (72.4%) of genes in pham
• Manual Annotations of this start: 10 of 25
• Called 57.1% of time when present
• Phage (with cluster) where this start called: AvGardian_33 (EB), BabyYoda_32 (EB), Bachaco_28 (EB), Celaena_28 (EB), DirtyBubble_31 (EB), Dismas_28 (EB), FlameThrower_28 (EB), Katzastrophic_28 (EB), Loviatar_56 (EB), Quenya_29 (EB), SanaSana_34 (EB), Sharkboy_29 (EB),

Start 26:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Skylord_27 (EB),

Start 27:
• Found in 22 of 29 (75.9%) of genes in pham
• Manual Annotations of this start: 12 of 25
• Called 63.6% of time when present
• Phage (with cluster) where this start called: BAjuniper_29 (EB), Eden_27 (EB), Elva_32 (EB), Franklin22_28 (EB), Gack_27 (EB), Icarian_36 (EB), Kharcho_35 (FM), Kieran_28 (EB), Mufasa8_58 (FG), Ottawa_35 (FM), Rona_28 (EB), Sonali_57 (FG), Stoor_32 (EB), Stromboli_32 (EB),

Summary by clusters:

There are 4 clusters represented in this pham: FG, DR, FM, EB,

Info for manual annotations of cluster DR:
•Start number 22 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster EB:
•Start number 25 was manually annotated 10 times for cluster EB.
•Start number 26 was manually annotated 1 time for cluster EB.
•Start number 27 was manually annotated 8 times for cluster EB.

Info for manual annotations of cluster FG:
•Start number 27 was manually annotated 2 times for cluster FG.

Info for manual annotations of cluster FM:
•Start number 27 was manually annotated 2 times for cluster FM.

Gene Information:

Gene: AnClar_71 Start: 57138, Stop: 56902, Start Num: 22
Candidate Starts for AnClar_71:
(17, 57174), (Start: 22 @57138 has 2 MA's), (Start: 25 @57102 has 10 MA's), (28, 57084),

Gene: AvGardian_33 Start: 23504, Stop: 23307, Start Num: 25
Candidate Starts for AvGardian_33:
(Start: 25 @23504 has 10 MA's), (Start: 27 @23498 has 12 MA's), (29, 23444), (30, 23420),

Gene: BAjuniper_29 Start: 23728, Stop: 23537, Start Num: 27
Candidate Starts for BAjuniper_29:
(Start: 25 @23734 has 10 MA's), (Start: 27 @23728 has 12 MA's), (29, 23674), (30, 23650), (35, 23617),

Gene: BabyYoda_32 Start: 24023, Stop: 23826, Start Num: 25
Candidate Starts for BabyYoda_32:
(Start: 25 @24023 has 10 MA's), (Start: 27 @24017 has 12 MA's), (29, 23963),

Gene: Bachaco_28 Start: 23946, Stop: 23749, Start Num: 25
Candidate Starts for Bachaco_28:
(Start: 25 @23946 has 10 MA's), (29, 23886), (35, 23829), (36, 23775),

Gene: BiggityBass_72 Start: 56910, Stop: 56674, Start Num: 22
Candidate Starts for BiggityBass_72:
(17, 56946), (Start: 22 @56910 has 2 MA's), (Start: 25 @56874 has 10 MA's), (28, 56856),

Gene: Celaena_28 Start: 23631, Stop: 23434, Start Num: 25
Candidate Starts for Celaena_28:
(Start: 25 @23631 has 10 MA's), (29, 23571), (35, 23514), (36, 23460),

Gene: DirtyBubble_31 Start: 23650, Stop: 23453, Start Num: 25
Candidate Starts for DirtyBubble_31:
(Start: 25 @23650 has 10 MA's), (Start: 27 @23644 has 12 MA's), (29, 23590),

Gene: Dismas_28 Start: 23310, Stop: 23113, Start Num: 25
Candidate Starts for Dismas_28:
(Start: 25 @23310 has 10 MA's), (Start: 27 @23304 has 12 MA's), (29, 23250), (37, 23118),

Gene: Eden_27 Start: 21061, Stop: 20870, Start Num: 27
Candidate Starts for Eden_27:
(1, 21646), (2, 21586), (3, 21415), (5, 21322), (7, 21289), (Start: 27 @21061 has 12 MA's), (28, 21049), (33, 20959), (34, 20956), (37, 20875),

Gene: Elva_32 Start: 23679, Stop: 23488, Start Num: 27
Candidate Starts for Elva_32:
(Start: 25 @23685 has 10 MA's), (Start: 27 @23679 has 12 MA's), (29, 23625),

Gene: FlameThrower_28 Start: 23117, Stop: 22920, Start Num: 25
Candidate Starts for FlameThrower_28:
(Start: 25 @23117 has 10 MA's), (29, 23057), (35, 23000), (36, 22946),

Gene: Franklin22_28 Start: 21221, Stop: 21030, Start Num: 27
Candidate Starts for Franklin22_28:
(17, 21296), (Start: 27 @21221 has 12 MA's), (28, 21209), (33, 21119), (34, 21116),

Gene: Gack_27 Start: 21104, Stop: 20913, Start Num: 27
Candidate Starts for Gack_27:
(13, 21206), (14, 21203), (24, 21116), (Start: 27 @21104 has 12 MA's), (28, 21092), (34, 20999), (35, 20993),

Gene: Icarian_36 Start: 24278, Stop: 24087, Start Num: 27
Candidate Starts for Icarian_36:
(Start: 25 @24284 has 10 MA's), (Start: 27 @24278 has 12 MA's), (29, 24224),

Gene: Katzastrophic_28 Start: 23235, Stop: 23038, Start Num: 25
Candidate Starts for Katzastrophic_28:
(Start: 25 @23235 has 10 MA's), (29, 23175), (35, 23118), (36, 23064),

Gene: Kharcho_35 Start: 14505, Stop: 14696, Start Num: 27
Candidate Starts for Kharcho_35:
(Start: 27 @14505 has 12 MA's), (28, 14517),

Gene: Kieran_28 Start: 23307, Stop: 23116, Start Num: 27
Candidate Starts for Kieran_28:
(Start: 25 @23313 has 10 MA's), (Start: 27 @23307 has 12 MA's), (29, 23253), (37, 23121),

Gene: Loviatar_56 Start: 24836, Stop: 24639, Start Num: 25
Candidate Starts for Loviatar_56:
(Start: 25 @24836 has 10 MA's), (Start: 27 @24830 has 12 MA's), (29, 24776),

Gene: Mufasa8_58 Start: 41034, Stop: 41228, Start Num: 27
Candidate Starts for Mufasa8_58:
(Start: 27 @41034 has 12 MA's),

Gene: Ottawa_35 Start: 14503, Stop: 14694, Start Num: 27
Candidate Starts for Ottawa_35:
(Start: 27 @14503 has 12 MA's), (28, 14515),

Gene: Quenya_29 Start: 23125, Stop: 22928, Start Num: 25
Candidate Starts for Quenya_29:
(4, 23398), (6, 23365), (8, 23341), (9, 23308), (10, 23287), (11, 23275), (12, 23245), (16, 23200), (21, 23161), (Start: 25 @23125 has 10 MA's), (Start: 27 @23119 has 12 MA's), (29, 23065), (35, 23008), (37, 22933),

Gene: Rona_28 Start: 23304, Stop: 23113, Start Num: 27
Candidate Starts for Rona_28:
(Start: 25 @23310 has 10 MA's), (Start: 27 @23304 has 12 MA's), (29, 23250), (37, 23118),

Gene: SanaSana_34 Start: 24486, Stop: 24289, Start Num: 25
Candidate Starts for SanaSana_34:
(Start: 25 @24486 has 10 MA's), (Start: 27 @24480 has 12 MA's), (29, 24426),

Gene: Sharkboy_29 Start: 23394, Stop: 23197, Start Num: 25

Candidate Starts for Sharkboy_29:
(Start: 25 @23394 has 10 MA's), (Start: 27 @23388 has 12 MA's), (29, 23334), (35, 23277), (37, 23202),

Gene: Skylord_27 Start: 20825, Stop: 20634, Start Num: 26
Candidate Starts for Skylord_27:
(15, 20909), (19, 20885), (20, 20882), (23, 20861), (Start: 26 @20825 has 1 MA's), (28, 20813), (29, 20771),

Gene: Sonali_57 Start: 42711, Stop: 42905, Start Num: 27
Candidate Starts for Sonali_57:
(18, 42645), (Start: 27 @42711 has 12 MA's), (28, 42723), (31, 42798), (32, 42810),

Gene: Stoor_32 Start: 24148, Stop: 23957, Start Num: 27
Candidate Starts for Stoor_32:
(Start: 25 @24154 has 10 MA's), (Start: 27 @24148 has 12 MA's), (29, 24094),

Gene: Stromboli_32 Start: 24014, Stop: 23823, Start Num: 27
Candidate Starts for Stromboli_32:
(Start: 25 @24020 has 10 MA's), (Start: 27 @24014 has 12 MA's), (29, 23960),