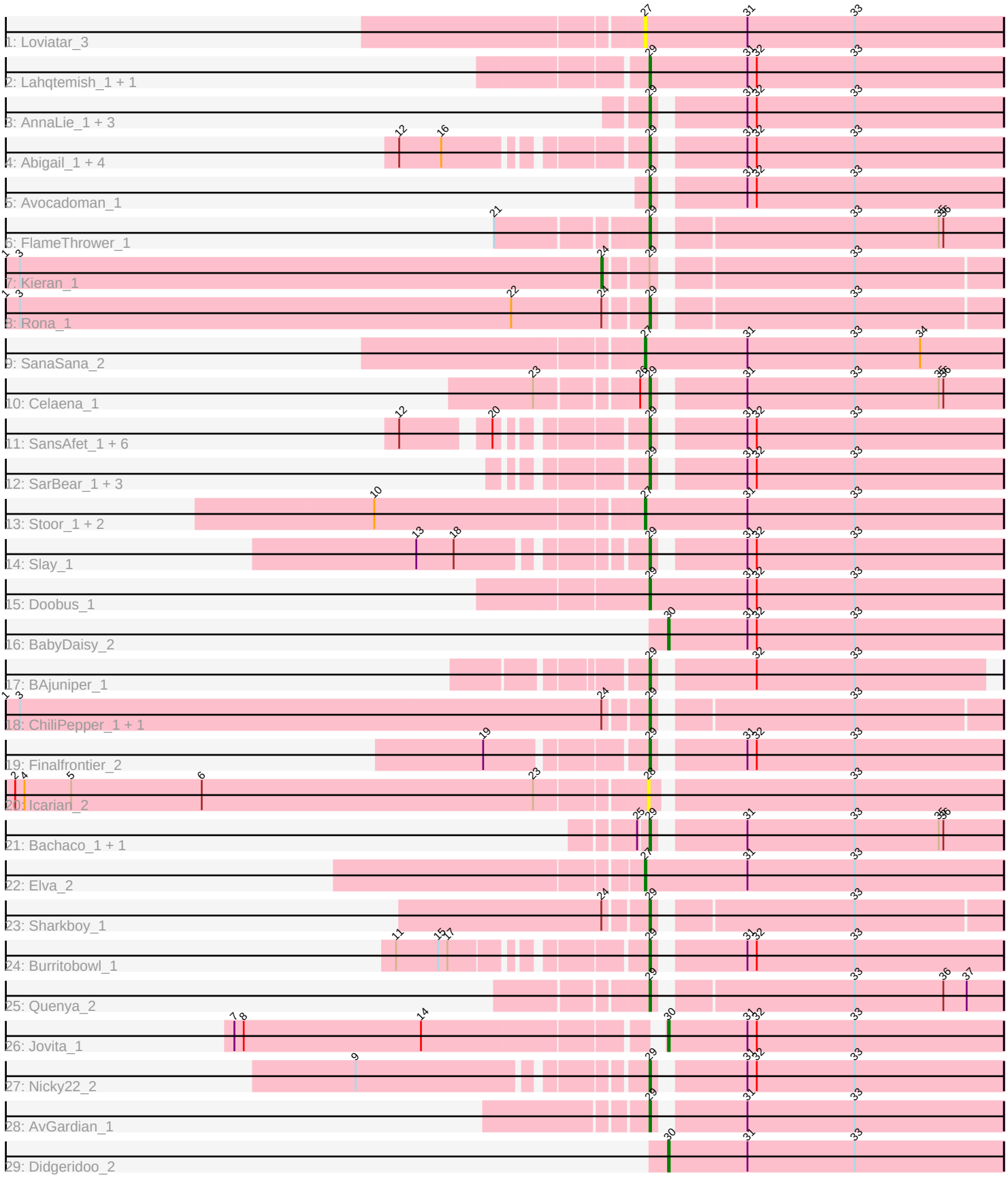
Pham 85825


1: Loviatar_3
2: Lahqtemish_1 + 1
3: AnnaLie_1 + 3
4: Abigail_1 + 4
5: Avocadoman_1
6: FlameThrower_1
7: Kieran_1
8: Rona_1
9: SanaSana_2
10: Celaena_1
11: SansAfet_1 + 6
12: SarBear_1 + 3
13: Stoor_1 + 2
14: Slay_1
15: Doobus_1
16: BabyDaisy_2
17: BAjuniper_1
18: ChiliPepper_1 + 1
19: Finalfrontier_2
20: Icarian_2
21: Bachaco_1 + 1
22: Elva_2
23: Sharkboy_1
24: Burritobowl_1
25: Quenya_2
26: Jovita_1
27: Nicky22_2
28: AvGardian_1
29: Didgeridoo_2

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 85825 Report

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

Pham number 85825 has 50 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Loviatar_3
• Track 2 : Lahqtemish_1, IndyLu_1
• Track 3 : AnnaLie_1, Arroyo_2, QMacho_2, BelmontSKP_1
• Track 4 : Abigail_1, LimaBean_1, Albright_1, Johnathan_1, CroZenni_1
• Track 5 : Avocadoman_1
• Track 6 : FlameThrower_1
• Track 7 : Kieran_1
• Track 8 : Rona_1
• Track 9 : SanaSana_2
• Track 10 : Celaena_1
• Track 11 : SansAfet_1, Albedo_1, Phisb_1, Kenzers_1, Lynlen_1, BubbaBear_1, Cashington_1
• Track 12 : SarBear_1, TukTuk_1, Eula_1, Swervy_1
• Track 13 : Stoor_1, BabyYoda_1, Stromboli_1
• Track 14 : Slay_1
• Track 15 : Doobus_1
• Track 16 : BabyDaisy_2
• Track 17 : BAjuniper_1
• Track 18 : ChiliPepper_1, Dismas_1
• Track 19 : Finalfrontier_2
• Track 20 : Icarian_2
• Track 21 : Bachaco_1, Katzastrophic_1
• Track 22 : Elva_2
• Track 23 : Sharkboy_1
• Track 24 : Burritobowl_1
• Track 25 : Quenya_2
• Track 26 : Jovita_1
• Track 27 : Nicky22_2
• Track 28 : AvGardian_1
• Track 29 : Didgeridoo_2

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

The start number called the most often in the published annotations is 29, it was called in 36 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abigail_1, Albedo_1, Albright_1, AnnaLie_1, Arroyo_2, AvGardian_1, Avocadoman_1, BAjuniper_1, Bachaco_1, BelmontSKP_1, BubbaBear_1, Burritobowl_1, Cashington_1, Celaena_1, ChiliPepper_1, CroZenni_1, Dismas_1, Doobus_1, Eula_1, Finalfrontier_2, FlameThrower_1, IndyLu_1, Johnathan_1, Katzastrophic_1, Kenzers_1, Lahqtemish_1, LimaBean_1, Lynlen_1, Nicky22_2, Phisb_1, QMacho_2, Quenya_2, Rona_1, SansAfet_1, SarBear_1, Sharkboy_1, Slay_1, Swervy_1, TukTuk_1,

Genes that have the "Most Annotated" start but do not call it:
• Kieran_1,

Genes that do not have the "Most Annotated" start:
• BabyDaisy_2, BabyYoda_1, Didgeridoo_2, Elva_2, Icarian_2, Jovita_1, Loviatar_3, SanaSana_2, Stoor_1, Stromboli_1,

Summary by start number:

Start 24:
• Found in 5 of 50 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 45
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Kieran_1 (EB),

Start 27:
• Found in 6 of 50 (12.0%) of genes in pham
• Manual Annotations of this start: 5 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyYoda_1 (EB), Elva_2 (EB), Loviatar_3 (EB), SanaSana_2 (EB), Stoor_1 (EB), Stromboli_1 (EB),

Start 28:
• Found in 1 of 50 (2.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Icarian_2 (EB),

Start 29:
• Found in 40 of 50 (80.0%) of genes in pham
• Manual Annotations of this start: 36 of 45
• Called 97.5% of time when present
• Phage (with cluster) where this start called: Abigail_1 (EB), Albedo_1 (EB), Albright_1 (EB), AnnaLie_1 (EB), Arroyo_2 (EB), AvGardian_1 (EB), Avocadoman_1 (EB), BAjuniper_1 (EB), Bachaco_1 (EB), BelmontSKP_1 (EB), BubbaBear_1 (EB), Burritobowl_1 (EB), Cashington_1 (EB), Celaena_1 (EB), ChiliPepper_1 (EB), CroZenni_1 (EB), Dismas_1 (EB), Doobus_1 (EB), Eula_1 (EB), Finalfrontier_2 (EB), FlameThrower_1 (EB), IndyLu_1 (EB), Johnathan_1 (EB), Katzastrophic_1 (EB), Kenzers_1 (EB), Lahqtemish_1 (EB), LimaBean_1 (EB), Lynlen_1 (EB), Nicky22_2 (EB), Phisb_1 (EB), QMacho_2 (EB), Quenya_2 (EB), Rona_1 (EB), SansAfet_1 (EB), SarBear_1 (EB), Sharkboy_1 (EB), Slay_1 (EB), Swervy_1 (EB), TukTuk_1

(EB),

Start 30:
• Found in 3 of 50 (6.0%) of genes in pham
• Manual Annotations of this start: 3 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyDaisy_2 (EB), Didgeridoo_2 (EB), Jovita_1 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:
•Start number 24 was manually annotated 1 time for cluster EB.
•Start number 27 was manually annotated 5 times for cluster EB.
•Start number 29 was manually annotated 36 times for cluster EB.
•Start number 30 was manually annotated 3 times for cluster EB.

Gene Information:

Gene: Abigail_1 Start: 147, Stop: 362, Start Num: 29
Candidate Starts for Abigail_1:
(12, 12), (16, 39), (Start: 29 @147 has 36 MA's), (31, 198), (32, 204), (33, 267),

Gene: Albedo_1 Start: 135, Stop: 350, Start Num: 29
Candidate Starts for Albedo_1:
(12, 12), (20, 60), (Start: 29 @135 has 36 MA's), (31, 186), (32, 192), (33, 255),

Gene: Albright_1 Start: 147, Stop: 362, Start Num: 29
Candidate Starts for Albright_1:
(12, 12), (16, 39), (Start: 29 @147 has 36 MA's), (31, 198), (32, 204), (33, 267),

Gene: AnnaLie_1 Start: 147, Stop: 362, Start Num: 29
Candidate Starts for AnnaLie_1:
(Start: 29 @147 has 36 MA's), (31, 198), (32, 204), (33, 267),

Gene: Arroyo_2 Start: 617, Stop: 832, Start Num: 29
Candidate Starts for Arroyo_2:
(Start: 29 @617 has 36 MA's), (31, 668), (32, 674), (33, 737),

Gene: AvGardian_1 Start: 211, Stop: 426, Start Num: 29
Candidate Starts for AvGardian_1:
(Start: 29 @211 has 36 MA's), (31, 262), (33, 331),

Gene: Avocadoman_1 Start: 205, Stop: 420, Start Num: 29
Candidate Starts for Avocadoman_1:
(Start: 29 @205 has 36 MA's), (31, 256), (32, 262), (33, 325),

Gene: BAjuniper_1 Start: 266, Stop: 469, Start Num: 29
Candidate Starts for BAjuniper_1:

(Start: 29 @266 has 36 MA's), (32, 323), (33, 386),

Gene: BabyDaisy_2 Start: 403, Stop: 618, Start Num: 30
Candidate Starts for BabyDaisy_2:
(Start: 30 @403 has 3 MA's), (31, 454), (32, 460), (33, 523),

Gene: BabyYoda_1 Start: 401, Stop: 631, Start Num: 27
Candidate Starts for BabyYoda_1:
(10, 239), (Start: 27 @401 has 5 MA's), (31, 467), (33, 536),

Gene: Bachaco_1 Start: 397, Stop: 612, Start Num: 29
Candidate Starts for Bachaco_1:
(25, 391), (Start: 29 @397 has 36 MA's), (31, 448), (33, 517), (35, 571), (36, 574),

Gene: BelmontSKP_1 Start: 147, Stop: 362, Start Num: 29
Candidate Starts for BelmontSKP_1:
(Start: 29 @147 has 36 MA's), (31, 198), (32, 204), (33, 267),

Gene: BubbaBear_1 Start: 135, Stop: 350, Start Num: 29
Candidate Starts for BubbaBear_1:
(12, 12), (20, 60), (Start: 29 @135 has 36 MA's), (31, 186), (32, 192), (33, 255),

Gene: Burritobowl_1 Start: 145, Stop: 360, Start Num: 29
Candidate Starts for Burritobowl_1:
(11, 10), (15, 37), (17, 43), (Start: 29 @145 has 36 MA's), (31, 196), (32, 202), (33, 265),

Gene: Cashington_1 Start: 135, Stop: 350, Start Num: 29
Candidate Starts for Cashington_1:
(12, 12), (20, 60), (Start: 29 @135 has 36 MA's), (31, 186), (32, 192), (33, 255),

Gene: Celaena_1 Start: 334, Stop: 549, Start Num: 29
Candidate Starts for Celaena_1:
(23, 271), (26, 328), (Start: 29 @334 has 36 MA's), (31, 385), (33, 454), (35, 508), (36, 511),

Gene: ChiliPepper_1 Start: 406, Stop: 615, Start Num: 29
Candidate Starts for ChiliPepper_1:
(1, 1), (3, 10), (Start: 24 @382 has 1 MA's), (Start: 29 @406 has 36 MA's), (33, 523),

Gene: CroZenni_1 Start: 147, Stop: 362, Start Num: 29
Candidate Starts for CroZenni_1:
(12, 12), (16, 39), (Start: 29 @147 has 36 MA's), (31, 198), (32, 204), (33, 267),

Gene: Didgeridoo_2 Start: 403, Stop: 618, Start Num: 30
Candidate Starts for Didgeridoo_2:
(Start: 30 @403 has 3 MA's), (31, 454), (33, 523),

Gene: Dismas_1 Start: 406, Stop: 615, Start Num: 29
Candidate Starts for Dismas_1:
(1, 1), (3, 10), (Start: 24 @382 has 1 MA's), (Start: 29 @406 has 36 MA's), (33, 523),

Gene: Doobus_1 Start: 357, Stop: 584, Start Num: 29
Candidate Starts for Doobus_1:
(Start: 29 @357 has 36 MA's), (31, 420), (32, 426), (33, 489),

Gene: Elva_2 Start: 458, Stop: 688, Start Num: 27
Candidate Starts for Elva_2:
(Start: 27 @458 has 5 MA's), (31, 524), (33, 593),

Gene: Eula_1 Start: 134, Stop: 349, Start Num: 29
Candidate Starts for Eula_1:
(Start: 29 @134 has 36 MA's), (31, 185), (32, 191), (33, 254),

Gene: Finalfrontier_2 Start: 640, Stop: 855, Start Num: 29
Candidate Starts for Finalfrontier_2:
(19, 550), (Start: 29 @640 has 36 MA's), (31, 691), (32, 697), (33, 760),

Gene: FlameThrower_1 Start: 333, Stop: 545, Start Num: 29
Candidate Starts for FlameThrower_1:
(21, 246), (Start: 29 @333 has 36 MA's), (33, 450), (35, 504), (36, 507),

Gene: Icarian_2 Start: 404, Stop: 622, Start Num: 28
Candidate Starts for Icarian_2:
(2, 8), (4, 14), (5, 44), (6, 128), (23, 341), (28, 404), (33, 527),

Gene: IndyLu_1 Start: 215, Stop: 442, Start Num: 29
Candidate Starts for IndyLu_1:
(Start: 29 @215 has 36 MA's), (31, 278), (32, 284), (33, 347),

Gene: Johnathan_1 Start: 147, Stop: 362, Start Num: 29
Candidate Starts for Johnathan_1:
(12, 12), (16, 39), (Start: 29 @147 has 36 MA's), (31, 198), (32, 204), (33, 267),

Gene: Jovita_1 Start: 260, Stop: 475, Start Num: 30
Candidate Starts for Jovita_1:
(7, 8), (8, 14), (14, 128), (Start: 30 @260 has 3 MA's), (31, 311), (32, 317), (33, 380),

Gene: Katzastrophic_1 Start: 397, Stop: 612, Start Num: 29
Candidate Starts for Katzastrophic_1:
(25, 391), (Start: 29 @397 has 36 MA's), (31, 448), (33, 517), (35, 571), (36, 574),

Gene: Kenzers_1 Start: 135, Stop: 350, Start Num: 29
Candidate Starts for Kenzers_1:
(12, 12), (20, 60), (Start: 29 @135 has 36 MA's), (31, 186), (32, 192), (33, 255),

Gene: Kieran_1 Start: 382, Stop: 615, Start Num: 24
Candidate Starts for Kieran_1:
(1, 1), (3, 10), (Start: 24 @382 has 1 MA's), (Start: 29 @406 has 36 MA's), (33, 523),

Gene: Lahqtemish_1 Start: 215, Stop: 442, Start Num: 29
Candidate Starts for Lahqtemish_1:
(Start: 29 @215 has 36 MA's), (31, 278), (32, 284), (33, 347),

Gene: LimaBean_1 Start: 147, Stop: 362, Start Num: 29
Candidate Starts for LimaBean_1:
(12, 12), (16, 39), (Start: 29 @147 has 36 MA's), (31, 198), (32, 204), (33, 267),

Gene: Loviatar_3 Start: 403, Stop: 633, Start Num: 27
Candidate Starts for Loviatar_3:
(Start: 27 @403 has 5 MA's), (31, 469), (33, 538),

Gene: Lynlen_1 Start: 135, Stop: 350, Start Num: 29
Candidate Starts for Lynlen_1:
(12, 12), (20, 60), (Start: 29 @135 has 36 MA's), (31, 186), (32, 192), (33, 255),

Gene: Nicky22_2 Start: 609, Stop: 824, Start Num: 29
Candidate Starts for Nicky22_2:
(9, 444), (Start: 29 @609 has 36 MA's), (31, 660), (32, 666), (33, 729),

Gene: Phisb_1 Start: 135, Stop: 350, Start Num: 29
Candidate Starts for Phisb_1:
(12, 12), (20, 60), (Start: 29 @135 has 36 MA's), (31, 186), (32, 192), (33, 255),

Gene: QMacho_2 Start: 617, Stop: 832, Start Num: 29
Candidate Starts for QMacho_2:
(Start: 29 @617 has 36 MA's), (31, 668), (32, 674), (33, 737),

Gene: Quenya_2 Start: 401, Stop: 613, Start Num: 29
Candidate Starts for Quenya_2:
(Start: 29 @401 has 36 MA's), (33, 518), (36, 575), (37, 590),

Gene: Rona_1 Start: 406, Stop: 615, Start Num: 29
Candidate Starts for Rona_1:
(1, 1), (3, 10), (22, 325), (Start: 24 @382 has 1 MA's), (Start: 29 @406 has 36 MA's), (33, 523),

Gene: SanaSana_2 Start: 403, Stop: 633, Start Num: 27
Candidate Starts for SanaSana_2:
(Start: 27 @403 has 5 MA's), (31, 469), (33, 538), (34, 580),

Gene: SansAfet_1 Start: 135, Stop: 350, Start Num: 29
Candidate Starts for SansAfet_1:
(12, 12), (20, 60), (Start: 29 @135 has 36 MA's), (31, 186), (32, 192), (33, 255),

Gene: SarBear_1 Start: 134, Stop: 349, Start Num: 29
Candidate Starts for SarBear_1:
(Start: 29 @134 has 36 MA's), (31, 185), (32, 191), (33, 254),

Gene: Sharkboy_1 Start: 405, Stop: 614, Start Num: 29
Candidate Starts for Sharkboy_1:
(Start: 24 @381 has 1 MA's), (Start: 29 @405 has 36 MA's), (33, 522),

Gene: Slay_1 Start: 617, Stop: 832, Start Num: 29
Candidate Starts for Slay_1:
(13, 491), (18, 515), (Start: 29 @617 has 36 MA's), (31, 668), (32, 674), (33, 737),

Gene: Stoor_1 Start: 400, Stop: 630, Start Num: 27
Candidate Starts for Stoor_1:
(10, 238), (Start: 27 @400 has 5 MA's), (31, 466), (33, 535),

Gene: Stromboli_1 Start: 400, Stop: 630, Start Num: 27

Candidate Starts for Stromboli_1:
(10, 238), (Start: 27 @400 has 5 MA's), (31, 466), (33, 535),

Gene: Swervy_1 Start: 134, Stop: 349, Start Num: 29
Candidate Starts for Swervy_1:
(Start: 29 @134 has 36 MA's), (31, 185), (32, 191), (33, 254),

Gene: TukTuk_1 Start: 134, Stop: 349, Start Num: 29
Candidate Starts for TukTuk_1:
(Start: 29 @134 has 36 MA's), (31, 185), (32, 191), (33, 254),