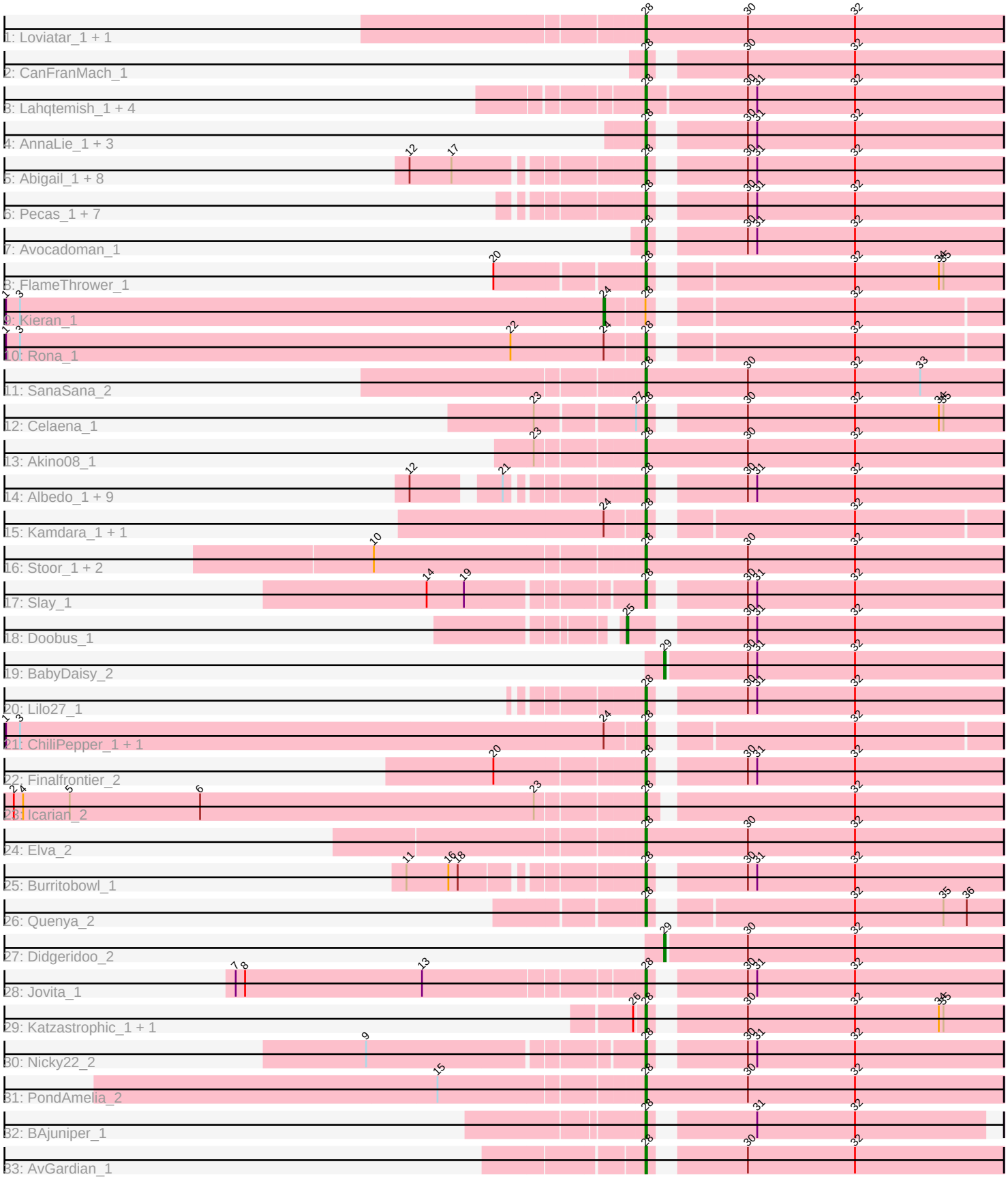
Pham 345702


1: Loviatar_1 + 1
2: CanFranMach_1
3: Lahqtemish_1 + 4
4: AnnaLie_1 + 3
5: Abigail_1 + 8
6: Pecas_1 + 7
7: Avocadoman_1
8: FlameThrower_1
9: Kieran_1
10: Rona_1
11: SanaSana_2
12: Celaena_1
13: Akino08_1
14: Albedo_1 + 9
15: Kamdara_1 + 1
16: Stoor_1 + 2
17: Slay_1
18: Doobus_1
19: BabyDaisy_2
20: Lilo27_1
21: ChiliPepper_1 + 1
22: Finalfrontier_2
23: Icarian_2
24: Elva_2
25: Burritobowl_1
26: Quenya_2
27: Didgeridoo_2
28: Jovita_1
29: Katzastrophic_1 + 1
30: Nicky22_2
31: PondAmelia_2
32: BAjuniper_1
33: AvGardian_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 345702 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345702 has 70 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Loviatar_1, WalkingDead_1
• Track 2 : CanFranMach_1
• Track 3 : Lahqtemish_1, Grist_1, IndyLu_1, PastaFagioli_1, Kate33_1
• Track 4 : AnnaLie_1, Arroyo_2, QMacho_2, BelmontSKP_1
• Track 5 : Abigail_1, AylexOG_1, LimaBean_1, Bengal_1, Softsoap_1, PhigPhack_1, Albright_1, Johnathan_1, CroZenni_1
• Track 6 : Pecas_1, Jabb_1, SarBear_1, Eula_1, TukTuk_1, MsUbiquitous_1, Swervy_1, CupcakePrincess_1
• Track 7 : Avocadoman_1
• Track 8 : FlameThrower_1
• Track 9 : Kieran_1
• Track 10 : Rona_1
• Track 11 : SanaSana_2
• Track 12 : Celaena_1
• Track 13 : Akino08_1
• Track 14 : Albedo_1, Phisb_1, SirBeanington_1, Kenzers_1, SansAfet_1, Cashington_1, Lynlen_1, BubbaBear_1, Solea_1, Milomuff_1
• Track 15 : Kamdara_1, Sharkboy_1
• Track 16 : Stoor_1, BabyYoda_1, Stromboli_1
• Track 17 : Slay_1
• Track 18 : Doobus_1
• Track 19 : BabyDaisy_2
• Track 20 : Lilo27_1
• Track 21 : ChiliPepper_1, Dismas_1
• Track 22 : Finalfrontier_2
• Track 23 : Icarian_2
• Track 24 : Elva_2
• Track 25 : Burritobowl_1
• Track 26 : Quenya_2
• Track 27 : Didgeridoo_2
• Track 28 : Jovita_1
• Track 29 : Katzastrophic_1, Bachaco_1
• Track 30 : Nicky22_2
• Track 31 : PondAmelia_2
• Track 32 : BAjuniper_1
• Track 33 : AvGardian_1

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

The start number called the most often in the published annotations is 28, it was called in 62 of the 66 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abigail_1, Akino08_1, Albedo_1, Albright_1, AnnaLie_1, Arroyo_2, AvGardian_1, Avocadoman_1, AylexOG_1, BAjuniper_1, BabyYoda_1, Bachaco_1, BelmontSKP_1, Bengal_1, BubbaBear_1, Burritobowl_1, CanFranMach_1, Cashington_1, Celaena_1, ChiliPepper_1, CroZenni_1, CupcakePrincess_1, Dismas_1, Elva_2, Eula_1, Finalfrontier_2, FlameThrower_1, Grist_1, Icarian_2, IndyLu_1, Jabb_1, Johnathan_1, Jovita_1, Kamdara_1, Kate33_1, Katzastrophic_1, Kenzers_1, Lahqtemish_1, Lilo27_1, LimaBean_1, Loviatar_1, Lynlen_1, Milomuff_1, MsUbiquitous_1, Nicky22_2, PastaFagioli_1, Pecas_1, PhigPhack_1, Phisb_1, PondAmelia_2, QMacho_2, Quenya_2, Rona_1, SanaSana_2, SansAfet_1, SarBear_1, Sharkboy_1, SirBeanington_1, Slay_1, Softsoap_1, Solea_1, Stoor_1, Stromboli_1, Swervy_1, TukTuk_1, WalkingDead_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, Didgeridoo_2, Doobus_1,

Summary by start number:

Start 24:
• Found in 6 of 70 (8.6%) of genes in pham
• Manual Annotations of this start: 1 of 66
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Kieran_1 (EB),

Start 25:
• Found in 1 of 70 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Doobus_1 (EB),

Start 28:
• Found in 67 of 70 (95.7%) of genes in pham
• Manual Annotations of this start: 62 of 66
• Called 98.5% of time when present
• Phage (with cluster) where this start called: Abigail_1 (EB), Akino08_1 (EB), Albedo_1 (EB), Albright_1 (EB), AnnaLie_1 (EB), Arroyo_2 (EB), AvGardian_1 (EB), Avocadoman_1 (EB), AylexOG_1 (EB), BAjuniper_1 (EB), BabyYoda_1 (EB), Bachaco_1 (EB), BelmontSKP_1 (EB), Bengal_1 (EB), BubbaBear_1 (EB), Burritobowl_1 (EB), CanFranMach_1 (EB), Cashington_1 (EB), Celaena_1 (EB), ChiliPepper_1 (EB), CroZenni_1 (EB), CupcakePrincess_1 (EB), Dismas_1 (EB), Elva_2 (EB), Eula_1 (EB), Finalfrontier_2 (EB), FlameThrower_1 (EB), Grist_1 (EB), Icarian_2 (EB), IndyLu_1 (EB), Jabb_1 (EB), Johnathan_1 (EB), Jovita_1 (EB),

Kamdara_1 (EB), Kate33_1 (EB), Katzastrophic_1 (EB), Kenzers_1 (EB), Lahqtemish_1 (EB), Lilo27_1 (EB), LimaBean_1 (EB), Loviatar_1 (EB), Lynlen_1 (EB), Milomuff_1 (EB), MsUbiquitous_1 (EB), Nicky22_2 (EB), PastaFagioli_1 (EB), Pecas_1 (EB), PhigPhack_1 (EB), Phisb_1 (EB), PondAmelia_2 (EB), QMacho_2 (EB), Quenya_2 (EB), Rona_1 (EB), SanaSana_2 (EB), SansAfet_1 (EB), SarBear_1 (EB), Sharkboy_1 (EB), SirBeanington_1 (EB), Slay_1 (EB), Softsoap_1 (EB), Solea_1 (EB), Stoor_1 (EB), Stromboli_1 (EB), Swervy_1 (EB), TukTuk_1 (EB), WalkingDead_1 (EB),

Start 29:
• Found in 2 of 70 (2.9%) of genes in pham
• Manual Annotations of this start: 2 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyDaisy_2 (EB), Didgeridoo_2 (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 25 was manually annotated 1 time for cluster EB.
•Start number 28 was manually annotated 62 times for cluster EB.
•Start number 29 was manually annotated 2 times for cluster EB.

Gene Information:

Gene: Abigail_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for Abigail_1:
(12, 12), (17, 39), (Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: Akino08_1 Start: 395, Stop: 625, Start Num: 28
Candidate Starts for Akino08_1:
(23, 332), (Start: 28 @395 has 62 MA's), (30, 461), (32, 530),

Gene: Albedo_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for Albedo_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 255),

Gene: Albright_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for Albright_1:
(12, 12), (17, 39), (Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: AnnaLie_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for AnnaLie_1:
(Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: Arroyo_2 Start: 617, Stop: 832, Start Num: 28
Candidate Starts for Arroyo_2:
(Start: 28 @617 has 62 MA's), (30, 668), (31, 674), (32, 737),

Gene: AvGardian_1 Start: 211, Stop: 426, Start Num: 28
Candidate Starts for AvGardian_1:
(Start: 28 @211 has 62 MA's), (30, 262), (32, 331),

Gene: Avocadoman_1 Start: 205, Stop: 420, Start Num: 28
Candidate Starts for Avocadoman_1:
(Start: 28 @205 has 62 MA's), (30, 256), (31, 262), (32, 325),

Gene: AylexOG_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for AylexOG_1:
(12, 12), (17, 39), (Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: BAjuniper_1 Start: 266, Stop: 469, Start Num: 28
Candidate Starts for BAjuniper_1:
(Start: 28 @266 has 62 MA's), (31, 323), (32, 386),

Gene: BabyDaisy_2 Start: 403, Stop: 618, Start Num: 29
Candidate Starts for BabyDaisy_2:
(Start: 29 @403 has 2 MA's), (30, 454), (31, 460), (32, 523),

Gene: BabyYoda_1 Start: 401, Stop: 631, Start Num: 28
Candidate Starts for BabyYoda_1:
(10, 239), (Start: 28 @401 has 62 MA's), (30, 467), (32, 536),

Gene: Bachaco_1 Start: 397, Stop: 612, Start Num: 28
Candidate Starts for Bachaco_1:
(26, 391), (Start: 28 @397 has 62 MA's), (30, 448), (32, 517), (34, 571), (35, 574),

Gene: BelmontSKP_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for BelmontSKP_1:
(Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: Bengal_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for Bengal_1:
(12, 12), (17, 39), (Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: BubbaBear_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for BubbaBear_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 255),

Gene: Burritobowl_1 Start: 145, Stop: 360, Start Num: 28
Candidate Starts for Burritobowl_1:
(11, 10), (16, 37), (18, 43), (Start: 28 @145 has 62 MA's), (30, 196), (31, 202), (32, 265),

Gene: CanFranMach_1 Start: 148, Stop: 363, Start Num: 28
Candidate Starts for CanFranMach_1:
(Start: 28 @148 has 62 MA's), (30, 199), (32, 268),

Gene: Cashington_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for Cashington_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 255),

Gene: Celaena_1 Start: 334, Stop: 549, Start Num: 28

Candidate Starts for Celaena_1:
(23, 271), (27, 328), (Start: 28 @334 has 62 MA's), (30, 385), (32, 454), (34, 508), (35, 511),

Gene: ChiliPepper_1 Start: 406, Stop: 615, Start Num: 28
Candidate Starts for ChiliPepper_1:
(1, 1), (3, 10), (Start: 24 @382 has 1 MA's), (Start: 28 @406 has 62 MA's), (32, 523),

Gene: CroZenni_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for CroZenni_1:
(12, 12), (17, 39), (Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: CupcakePrincess_1 Start: 134, Stop: 349, Start Num: 28
Candidate Starts for CupcakePrincess_1:
(Start: 28 @134 has 62 MA's), (30, 185), (31, 191), (32, 254),

Gene: Didgeridoo_2 Start: 403, Stop: 618, Start Num: 29
Candidate Starts for Didgeridoo_2:
(Start: 29 @403 has 2 MA's), (30, 454), (32, 523),

Gene: Dismas_1 Start: 406, Stop: 615, Start Num: 28
Candidate Starts for Dismas_1:
(1, 1), (3, 10), (Start: 24 @382 has 1 MA's), (Start: 28 @406 has 62 MA's), (32, 523),

Gene: Doobus_1 Start: 357, Stop: 584, Start Num: 25
Candidate Starts for Doobus_1:
(Start: 25 @357 has 1 MA's), (30, 420), (31, 426), (32, 489),

Gene: Elva_2 Start: 458, Stop: 688, Start Num: 28
Candidate Starts for Elva_2:
(Start: 28 @458 has 62 MA's), (30, 524), (32, 593),

Gene: Eula_1 Start: 134, Stop: 349, Start Num: 28
Candidate Starts for Eula_1:
(Start: 28 @134 has 62 MA's), (30, 185), (31, 191), (32, 254),

Gene: Finalfrontier_2 Start: 640, Stop: 855, Start Num: 28
Candidate Starts for Finalfrontier_2:
(20, 550), (Start: 28 @640 has 62 MA's), (30, 691), (31, 697), (32, 760),

Gene: FlameThrower_1 Start: 333, Stop: 545, Start Num: 28
Candidate Starts for FlameThrower_1:
(20, 246), (Start: 28 @333 has 62 MA's), (32, 450), (34, 504), (35, 507),

Gene: Grist_1 Start: 215, Stop: 442, Start Num: 28
Candidate Starts for Grist_1:
(Start: 28 @215 has 62 MA's), (30, 278), (31, 284), (32, 347),

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), (Start: 28 @404 has 62 MA's), (32, 527),

Gene: IndyLu_1 Start: 215, Stop: 442, Start Num: 28
Candidate Starts for IndyLu_1:

(Start: 28 @215 has 62 MA's), (30, 278), (31, 284), (32, 347),

Gene: Jabb_1 Start: 134, Stop: 349, Start Num: 28
Candidate Starts for Jabb_1:
(Start: 28 @134 has 62 MA's), (30, 185), (31, 191), (32, 254),

Gene: Johnathan_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for Johnathan_1:
(12, 12), (17, 39), (Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: Jovita_1 Start: 260, Stop: 475, Start Num: 28
Candidate Starts for Jovita_1:
(7, 8), (8, 14), (13, 128), (Start: 28 @260 has 62 MA's), (30, 311), (31, 317), (32, 380),

Gene: Kamdara_1 Start: 405, Stop: 614, Start Num: 28
Candidate Starts for Kamdara_1:
(Start: 24 @381 has 1 MA's), (Start: 28 @405 has 62 MA's), (32, 522),

Gene: Kate33_1 Start: 215, Stop: 442, Start Num: 28
Candidate Starts for Kate33_1:
(Start: 28 @215 has 62 MA's), (30, 278), (31, 284), (32, 347),

Gene: Katzastrophic_1 Start: 397, Stop: 612, Start Num: 28
Candidate Starts for Katzastrophic_1:
(26, 391), (Start: 28 @397 has 62 MA's), (30, 448), (32, 517), (34, 571), (35, 574),

Gene: Kenzers_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for Kenzers_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 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: 28 @406 has 62 MA's), (32, 523),

Gene: Lahqtemish_1 Start: 215, Stop: 442, Start Num: 28
Candidate Starts for Lahqtemish_1:
(Start: 28 @215 has 62 MA's), (30, 278), (31, 284), (32, 347),

Gene: Lilo27_1 Start: 138, Stop: 353, Start Num: 28
Candidate Starts for Lilo27_1:
(Start: 28 @138 has 62 MA's), (30, 189), (31, 195), (32, 258),

Gene: LimaBean_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for LimaBean_1:
(12, 12), (17, 39), (Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: Loviatar_1 Start: 403, Stop: 633, Start Num: 28
Candidate Starts for Loviatar_1:
(Start: 28 @403 has 62 MA's), (30, 469), (32, 538),

Gene: Lynlen_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for Lynlen_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 255),

Gene: Milomuff_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for Milomuff_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 255),

Gene: MsUbiquitous_1 Start: 134, Stop: 349, Start Num: 28
Candidate Starts for MsUbiquitous_1:
(Start: 28 @134 has 62 MA's), (30, 185), (31, 191), (32, 254),

Gene: Nicky22_2 Start: 609, Stop: 824, Start Num: 28
Candidate Starts for Nicky22_2:
(9, 444), (Start: 28 @609 has 62 MA's), (30, 660), (31, 666), (32, 729),

Gene: PastaFagioli_1 Start: 215, Stop: 442, Start Num: 28
Candidate Starts for PastaFagioli_1:
(Start: 28 @215 has 62 MA's), (30, 278), (31, 284), (32, 347),

Gene: Pecas_1 Start: 134, Stop: 349, Start Num: 28
Candidate Starts for Pecas_1:
(Start: 28 @134 has 62 MA's), (30, 185), (31, 191), (32, 254),

Gene: PhigPhack_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for PhigPhack_1:
(12, 12), (17, 39), (Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: Phisb_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for Phisb_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 255),

Gene: PondAmelia_2 Start: 403, Stop: 633, Start Num: 28
Candidate Starts for PondAmelia_2:
(15, 280), (Start: 28 @403 has 62 MA's), (30, 469), (32, 538),

Gene: QMacho_2 Start: 617, Stop: 832, Start Num: 28
Candidate Starts for QMacho_2:
(Start: 28 @617 has 62 MA's), (30, 668), (31, 674), (32, 737),

Gene: Quenya_2 Start: 401, Stop: 613, Start Num: 28
Candidate Starts for Quenya_2:
(Start: 28 @401 has 62 MA's), (32, 518), (35, 575), (36, 590),

Gene: Rona_1 Start: 406, Stop: 615, Start Num: 28
Candidate Starts for Rona_1:
(1, 1), (3, 10), (22, 325), (Start: 24 @382 has 1 MA's), (Start: 28 @406 has 62 MA's), (32, 523),

Gene: SanaSana_2 Start: 403, Stop: 633, Start Num: 28
Candidate Starts for SanaSana_2:
(Start: 28 @403 has 62 MA's), (30, 469), (32, 538), (33, 580),

Gene: SansAfet_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for SansAfet_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 255),

Gene: SarBear_1 Start: 134, Stop: 349, Start Num: 28
Candidate Starts for SarBear_1:
(Start: 28 @134 has 62 MA's), (30, 185), (31, 191), (32, 254),

Gene: Sharkboy_1 Start: 405, Stop: 614, Start Num: 28
Candidate Starts for Sharkboy_1:
(Start: 24 @381 has 1 MA's), (Start: 28 @405 has 62 MA's), (32, 522),

Gene: SirBeanington_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for SirBeanington_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 255),

Gene: Slay_1 Start: 617, Stop: 832, Start Num: 28
Candidate Starts for Slay_1:
(14, 491), (19, 515), (Start: 28 @617 has 62 MA's), (30, 668), (31, 674), (32, 737),

Gene: Softsoap_1 Start: 147, Stop: 362, Start Num: 28
Candidate Starts for Softsoap_1:
(12, 12), (17, 39), (Start: 28 @147 has 62 MA's), (30, 198), (31, 204), (32, 267),

Gene: Solea_1 Start: 135, Stop: 350, Start Num: 28
Candidate Starts for Solea_1:
(12, 12), (21, 60), (Start: 28 @135 has 62 MA's), (30, 186), (31, 192), (32, 255),

Gene: Stoor_1 Start: 400, Stop: 630, Start Num: 28
Candidate Starts for Stoor_1:
(10, 238), (Start: 28 @400 has 62 MA's), (30, 466), (32, 535),

Gene: Stromboli_1 Start: 400, Stop: 630, Start Num: 28
Candidate Starts for Stromboli_1:
(10, 238), (Start: 28 @400 has 62 MA's), (30, 466), (32, 535),

Gene: Swervy_1 Start: 134, Stop: 349, Start Num: 28
Candidate Starts for Swervy_1:
(Start: 28 @134 has 62 MA's), (30, 185), (31, 191), (32, 254),

Gene: TukTuk_1 Start: 134, Stop: 349, Start Num: 28
Candidate Starts for TukTuk_1:
(Start: 28 @134 has 62 MA's), (30, 185), (31, 191), (32, 254),

Gene: WalkingDead_1 Start: 394, Stop: 621, Start Num: 28
Candidate Starts for WalkingDead_1:
(Start: 28 @394 has 62 MA's), (30, 460), (32, 529),