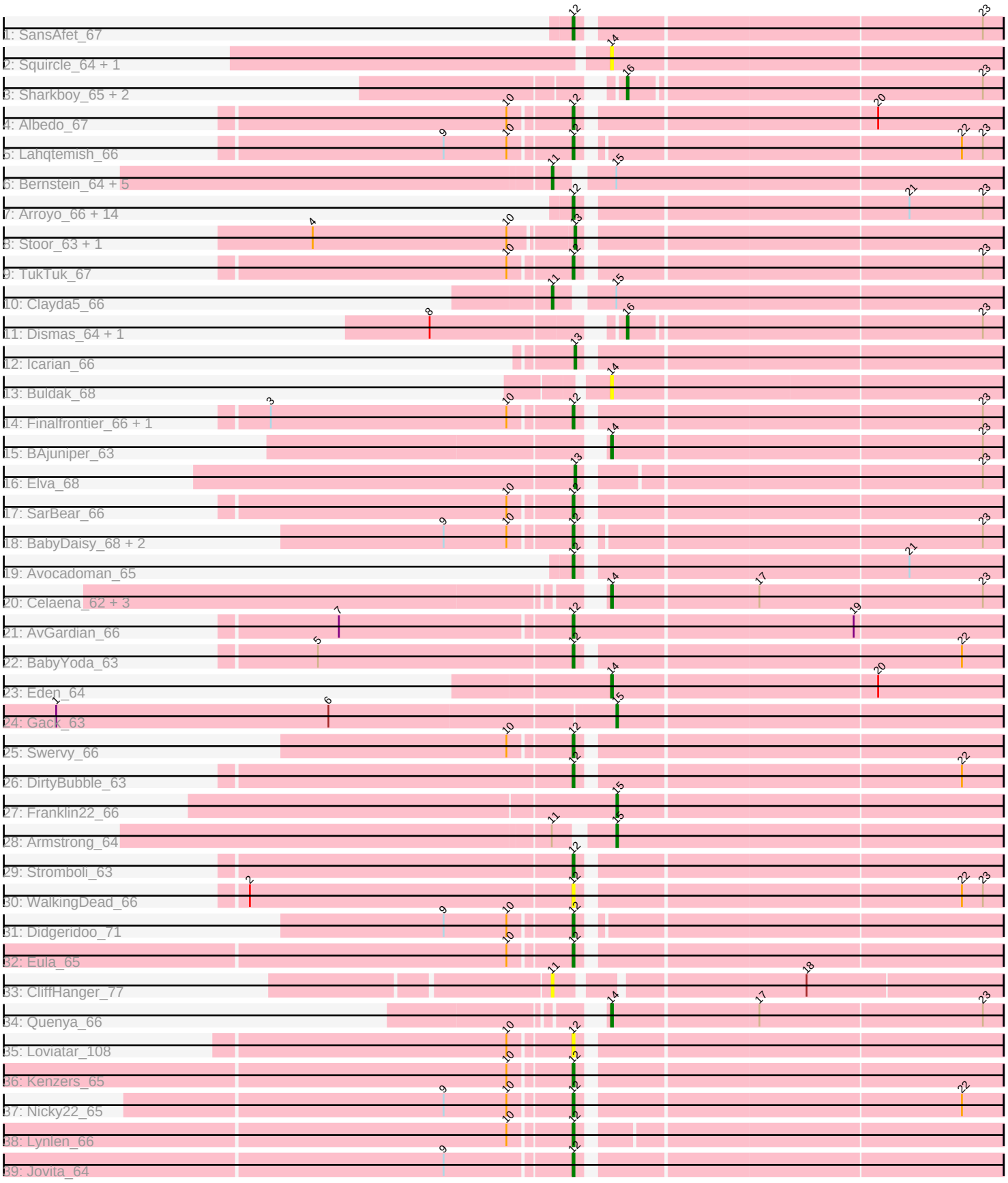
Pham 193981


1: SansAfet_67
2: Squircle_64 + 1
3: Sharkboy_65 + 2
4: Albedo_67
5: Lahqtemish_66
6: Bernstein_64 + 5
7: Arroyo_66 + 14
8: Stoor_63 + 1
9: TukTuk_67
10: Clayda5_66
11: Dismas_64 + 1
12: Icarian_66
13: Buldak_68
14: Finalfrontier_66 + 1
15: BAjuniper_63
16: Elva_68
17: SarBear_66
18: BabyDaisy_68 + 2
19: Avocadoman_65
20: Celaena_62 + 3
21: AvGardian_66
22: BabyYoda_63
23: Eden_64
24: Gack_63
25: Swervy_66
26: DirtyBubble_63
27: Franklin22_66
28: Armstrong_64
29: Stromboli_63
30: WalkingDead_66
31: Didgeridoo_71
32: Eula_65
33: CliffHanger_77
34: Quenya_66
35: Loviatar_108
36: Kenzers_65
37: Nicky22_65
38: Lynlen_66
39: Jovita_64

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 193981 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193981 has 69 members, 8 are drafts.

Phages represented in each track:
- Track 1 : SansAfet_67
- Track 2 : Squircle_64, Olliecat_64
- Track 3 : Sharkboy_65, ChiliPepper_62, Kieran_62
- Track 4 : Albedo_67
- Track 5 : Lahqtemish_66
- Track 6 : Bernstein_64, Rollins_64, Coltrane_64, Brahms_64, Vitas_64, Skylord_64
- Track 7 : Arroyo_66, Phisb_67, CroZenni_66, DickRichards_64, Doobus_64, BubbaBear_65, LimaBean_65, Johnathan_65, Cashington_65, BelmontSKP_65, AnnaLie_65, Burritobowl_67, QMacho_67, Albright_65, Abigail_65
- Track 8 : Stoor_63, SanaSana_65
- Track 9 : TukTuk_67
- Track 10 : Clayda5_66
- Track 11 : Dismas_64, Rona_63
- Track 12 : Icarian_66
- Track 13 : Buldak_68
- Track 14 : Finalfrontier_66, Slay_67
- Track 15 : BAjuniper_63
- Track 16 : Elva_68
- Track 17 : SarBear_66
- Track 18 : BabyDaisy_68, IndyLu_68, Kate33_68
- Track 19 : Avocadoman_65
- Track 20 : Celaena_62, Katzastrophic_63, Bachaco_62, FlameThrower_61
- Track 21 : AvGardian_66
- Track 22 : BabyYoda_63
- Track 23 : Eden_64
- Track 24 : Gack_63
- Track 25 : Swervy_66
- Track 26 : DirtyBubble_63
- Track 27 : Franklin22_66
- Track 28 : Armstrong_64
- Track 29 : Stromboli_63
- Track 30 : WalkingDead_66
- Track 31 : Didgeridoo_71
- Track 32 : Eula_65
- Track 33 : CliffHanger_77
- Track 34 : Quenya_66
- Track 35 : Loviatar_108

• Track 36 : Kenzers_65
• Track 37 : Nicky22_65
• Track 38 : Lynlen_66
• Track 39 : Jovita_64

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

The start number called the most often in the published annotations is 12, it was called in 35 of the 61 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abigail_65, Albedo_67, Albright_65, AnnaLie_65, Arroyo_66, AvGardian_66, Avocadoman_65, BabyDaisy_68, BabyYoda_63, BelmontSKP_65, BubbaBear_65, Burritobowl_67, Cashington_65, CroZenni_66, DickRichards_64, Didgeridoo_71, DirtyBubble_63, Doobus_64, Eula_65, Finalfrontier_66, IndyLu_68, Johnathan_65, Jovita_64, Kate33_68, Kenzers_65, Lahqtemish_66, LimaBean_65, Loviatar_108, Lynlen_66, Nicky22_65, Phisb_67, QMacho_67, SansAfet_67, SarBear_66, Slay_67, Stromboli_63, Swervy_66, TukTuk_67, WalkingDead_66,

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

Genes that do not have the "Most Annotated" start:
• Armstrong_64, BAjuniper_63, Bachaco_62, Bernstein_64, Brahms_64, Buldak_68, Celaena_62, ChiliPepper_62, Clayda5_66, CliffHanger_77, Coltrane_64, Dismas_64, Eden_64, Elva_68, FlameThrower_61, Franklin22_66, Gack_63, Icarian_66, Katzastrophic_63, Kieran_62, Olliecat_64, Quenya_66, Rollins_64, Rona_63, SanaSana_65, Sharkboy_65, Skylord_64, Squircle_64, Stoor_63, Vitas_64,

Summary by start number:

Start 11:
• Found in 9 of 69 (13.0%) of genes in pham
• Manual Annotations of this start: 7 of 61
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Bernstein_64 (EB), Brahms_64 (EB), Clayda5_66 (EB), CliffHanger_77 (EB), Coltrane_64 (EB), Rollins_64 (EB), Skylord_64 (EB), Vitas_64 (EB),

Start 12:
• Found in 39 of 69 (56.5%) of genes in pham
• Manual Annotations of this start: 35 of 61
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abigail_65 (EB), Albedo_67 (EB), Albright_65 (EB), AnnaLie_65 (EB), Arroyo_66 (EB), AvGardian_66 (EB), Avocadoman_65 (EB), BabyDaisy_68 (EB), BabyYoda_63 (EB), BelmontSKP_65 (EB), BubbaBear_65 (EB), Burritobowl_67 (EB), Cashington_65 (EB), CroZenni_66 (EB), DickRichards_64 (EB), Didgeridoo_71 (EB), DirtyBubble_63 (EB), Doobus_64 (EB), Eula_65 (EB), Finalfrontier_66 (EB), IndyLu_68 (EB), Johnathan_65 (EB), Jovita_64 (EB), Kate33_68 (EB), Kenzers_65 (EB), Lahqtemish_66 (EB),

LimaBean_65 (EB), Loviatar_108 (EB), Lynlen_66 (EB), Nicky22_65 (EB), Phisb_67 (EB), QMacho_67 (EB), SansAfet_67 (EB), SarBear_66 (EB), Slay_67 (EB), Stromboli_63 (EB), Swervy_66 (EB), TukTuk_67 (EB), WalkingDead_66 (EB),

Start 13:
• Found in 4 of 69 (5.8%) of genes in pham
• Manual Annotations of this start: 4 of 61
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elva_68 (EB), Icarian_66 (EB), SanaSana_65 (EB), Stoor_63 (EB),

Start 14:
• Found in 10 of 69 (14.5%) of genes in pham
• Manual Annotations of this start: 7 of 61
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BAjuniper_63 (EB), Bachaco_62 (EB), Buldak_68 (EB), Celaena_62 (EB), Eden_64 (EB), FlameThrower_61 (EB), Katzastrophic_63 (EB), Olliecat_64 (EB), Quenya_66 (EB), Squircle_64 (EB),

Start 15:
• Found in 10 of 69 (14.5%) of genes in pham
• Manual Annotations of this start: 3 of 61
• Called 30.0% of time when present
• Phage (with cluster) where this start called: Armstrong_64 (EB), Franklin22_66 (EB), Gack_63 (EB),

Start 16:
• Found in 5 of 69 (7.2%) of genes in pham
• Manual Annotations of this start: 5 of 61
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChiliPepper_62 (EB), Dismas_64 (EB), Kieran_62 (EB), Rona_63 (EB), Sharkboy_65 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:
•Start number 11 was manually annotated 7 times for cluster EB.
•Start number 12 was manually annotated 35 times for cluster EB.
•Start number 13 was manually annotated 4 times for cluster EB.
•Start number 14 was manually annotated 7 times for cluster EB.
•Start number 15 was manually annotated 3 times for cluster EB.
•Start number 16 was manually annotated 5 times for cluster EB.

Gene Information:

Gene: Abigail_65 Start: 39510, Stop: 39740, Start Num: 12
Candidate Starts for Abigail_65:
(Start: 12 @39510 has 35 MA's), (21, 39687), (23, 39729),

Gene: Albedo_67 Start: 40431, Stop: 40661, Start Num: 12
Candidate Starts for Albedo_67:
(10, 40398), (Start: 12 @40431 has 35 MA's), (20, 40590),

Gene: Albright_65 Start: 39492, Stop: 39722, Start Num: 12
Candidate Starts for Albright_65:
(Start: 12 @39492 has 35 MA's), (21, 39669), (23, 39711),

Gene: AnnaLie_65 Start: 40171, Stop: 40401, Start Num: 12
Candidate Starts for AnnaLie_65:
(Start: 12 @40171 has 35 MA's), (21, 40348), (23, 40390),

Gene: Armstrong_64 Start: 38085, Stop: 38303, Start Num: 15
Candidate Starts for Armstrong_64:
(Start: 11 @38058 has 7 MA's), (Start: 15 @38085 has 3 MA's),

Gene: Arroyo_66 Start: 40635, Stop: 40865, Start Num: 12
Candidate Starts for Arroyo_66:
(Start: 12 @40635 has 35 MA's), (21, 40812), (23, 40854),

Gene: AvGardian_66 Start: 40233, Stop: 40472, Start Num: 12
Candidate Starts for AvGardian_66:
(7, 40104), (Start: 12 @40233 has 35 MA's), (19, 40389),

Gene: Avocadoman_65 Start: 39642, Stop: 39872, Start Num: 12
Candidate Starts for Avocadoman_65:
(Start: 12 @39642 has 35 MA's), (21, 39819),

Gene: BAjuniper_63 Start: 40333, Stop: 40551, Start Num: 14
Candidate Starts for BAjuniper_63:
(Start: 14 @40333 has 7 MA's), (23, 40540),

Gene: BabyDaisy_68 Start: 40982, Stop: 41209, Start Num: 12
Candidate Starts for BabyDaisy_68:
(9, 40913), (10, 40949), (Start: 12 @40982 has 35 MA's), (23, 41198),

Gene: BabyYoda_63 Start: 39882, Stop: 40112, Start Num: 12
Candidate Starts for BabyYoda_63:
(5, 39738), (Start: 12 @39882 has 35 MA's), (22, 40089),

Gene: Bachaco_62 Start: 41012, Stop: 41230, Start Num: 14
Candidate Starts for Bachaco_62:
(Start: 14 @41012 has 7 MA's), (17, 41093), (23, 41219),

Gene: BelmontSKP_65 Start: 40171, Stop: 40401, Start Num: 12
Candidate Starts for BelmontSKP_65:
(Start: 12 @40171 has 35 MA's), (21, 40348), (23, 40390),

Gene: Bernstein_64 Start: 38056, Stop: 38301, Start Num: 11
Candidate Starts for Bernstein_64:
(Start: 11 @38056 has 7 MA's), (Start: 15 @38083 has 3 MA's),

Gene: Brahms_64 Start: 37958, Stop: 38203, Start Num: 11

Candidate Starts for Brahms_64:
(Start: 11 @37958 has 7 MA's), (Start: 15 @37985 has 3 MA's),

Gene: BubbaBear_65 Start: 40423, Stop: 40653, Start Num: 12
Candidate Starts for BubbaBear_65:
(Start: 12 @40423 has 35 MA's), (21, 40600), (23, 40642),

Gene: Buldak_68 Start: 38647, Stop: 38865, Start Num: 14
Candidate Starts for Buldak_68:
(Start: 14 @38647 has 7 MA's),

Gene: Burritobowl_67 Start: 39993, Stop: 40223, Start Num: 12
Candidate Starts for Burritobowl_67:
(Start: 12 @39993 has 35 MA's), (21, 40170), (23, 40212),

Gene: Cashington_65 Start: 39734, Stop: 39964, Start Num: 12
Candidate Starts for Cashington_65:
(Start: 12 @39734 has 35 MA's), (21, 39911), (23, 39953),

Gene: Celaena_62 Start: 40775, Stop: 40993, Start Num: 14
Candidate Starts for Celaena_62:
(Start: 14 @40775 has 7 MA's), (17, 40856), (23, 40982),

Gene: ChiliPepper_62 Start: 40251, Stop: 40457, Start Num: 16
Candidate Starts for ChiliPepper_62:
(Start: 16 @40251 has 5 MA's), (23, 40446),

Gene: Clayda5_66 Start: 38024, Stop: 38269, Start Num: 11
Candidate Starts for Clayda5_66:
(Start: 11 @38024 has 7 MA's), (Start: 15 @38051 has 3 MA's),

Gene: CliffHanger_77 Start: 40041, Stop: 40280, Start Num: 11
Candidate Starts for CliffHanger_77:
(Start: 11 @40041 has 7 MA's), (18, 40170),

Gene: Coltrane_64 Start: 37958, Stop: 38203, Start Num: 11
Candidate Starts for Coltrane_64:
(Start: 11 @37958 has 7 MA's), (Start: 15 @37985 has 3 MA's),

Gene: CroZenni_66 Start: 39978, Stop: 40208, Start Num: 12
Candidate Starts for CroZenni_66:
(Start: 12 @39978 has 35 MA's), (21, 40155), (23, 40197),

Gene: DickRichards_64 Start: 39949, Stop: 40179, Start Num: 12
Candidate Starts for DickRichards_64:
(Start: 12 @39949 has 35 MA's), (21, 40126), (23, 40168),

Gene: Didgeridoo_71 Start: 41092, Stop: 41319, Start Num: 12
Candidate Starts for Didgeridoo_71:
(9, 41023), (10, 41059), (Start: 12 @41092 has 35 MA's),

Gene: DirtyBubble_63 Start: 39921, Stop: 40151, Start Num: 12
Candidate Starts for DirtyBubble_63:

(Start: 12 @39921 has 35 MA's), (22, 40128),

Gene: Dismas_64 Start: 40389, Stop: 40595, Start Num: 16
Candidate Starts for Dismas_64:
(8, 40296), (Start: 16 @40389 has 5 MA's), (23, 40584),

Gene: Doobus_64 Start: 39804, Stop: 40034, Start Num: 12
Candidate Starts for Doobus_64:
(Start: 12 @39804 has 35 MA's), (21, 39981), (23, 40023),

Gene: Eden_64 Start: 38679, Stop: 38897, Start Num: 14
Candidate Starts for Eden_64:
(Start: 14 @38679 has 7 MA's), (20, 38826),

Gene: Elva_68 Start: 40764, Stop: 40991, Start Num: 13
Candidate Starts for Elva_68:
(Start: 13 @40764 has 4 MA's), (23, 40980),

Gene: Eula_65 Start: 39714, Stop: 39944, Start Num: 12
Candidate Starts for Eula_65:
(10, 39681), (Start: 12 @39714 has 35 MA's),

Gene: Finalfrontier_66 Start: 40698, Stop: 40928, Start Num: 12
Candidate Starts for Finalfrontier_66:
(3, 40530), (10, 40665), (Start: 12 @40698 has 35 MA's), (23, 40917),

Gene: FlameThrower_61 Start: 39811, Stop: 40029, Start Num: 14
Candidate Starts for FlameThrower_61:
(Start: 14 @39811 has 7 MA's), (17, 39892), (23, 40018),

Gene: Franklin22_66 Start: 38403, Stop: 38618, Start Num: 15
Candidate Starts for Franklin22_66:
(Start: 15 @38403 has 3 MA's),

Gene: Gack_63 Start: 38308, Stop: 38523, Start Num: 15
Candidate Starts for Gack_63:
(1, 37993), (6, 38149), (Start: 15 @38308 has 3 MA's),

Gene: Icarian_66 Start: 40572, Stop: 40802, Start Num: 13
Candidate Starts for Icarian_66:
(Start: 13 @40572 has 4 MA's),

Gene: IndyLu_68 Start: 40713, Stop: 40940, Start Num: 12
Candidate Starts for IndyLu_68:
(9, 40644), (10, 40680), (Start: 12 @40713 has 35 MA's), (23, 40929),

Gene: Johnathan_65 Start: 39493, Stop: 39723, Start Num: 12
Candidate Starts for Johnathan_65:
(Start: 12 @39493 has 35 MA's), (21, 39670), (23, 39712),

Gene: Jovita_64 Start: 39482, Stop: 39712, Start Num: 12
Candidate Starts for Jovita_64:
(9, 39413), (Start: 12 @39482 has 35 MA's),

Gene: Kate33_68 Start: 40443, Stop: 40670, Start Num: 12
Candidate Starts for Kate33_68:
(9, 40374), (10, 40410), (Start: 12 @40443 has 35 MA's), (23, 40659),

Gene: Katzastrophic_63 Start: 40321, Stop: 40539, Start Num: 14
Candidate Starts for Katzastrophic_63:
(Start: 14 @40321 has 7 MA's), (17, 40402), (23, 40528),

Gene: Kenzers_65 Start: 39565, Stop: 39795, Start Num: 12
Candidate Starts for Kenzers_65:
(10, 39532), (Start: 12 @39565 has 35 MA's),

Gene: Kieran_62 Start: 40213, Stop: 40419, Start Num: 16
Candidate Starts for Kieran_62:
(Start: 16 @40213 has 5 MA's), (23, 40408),

Gene: Lahqtemish_66 Start: 40915, Stop: 41142, Start Num: 12
Candidate Starts for Lahqtemish_66:
(9, 40846), (10, 40882), (Start: 12 @40915 has 35 MA's), (22, 41119), (23, 41131),

Gene: LimaBean_65 Start: 39387, Stop: 39617, Start Num: 12
Candidate Starts for LimaBean_65:
(Start: 12 @39387 has 35 MA's), (21, 39564), (23, 39606),

Gene: Loviatar_108 Start: 40989, Stop: 41219, Start Num: 12
Candidate Starts for Loviatar_108:
(10, 40956), (Start: 12 @40989 has 35 MA's),

Gene: Lynlen_66 Start: 39718, Stop: 39945, Start Num: 12
Candidate Starts for Lynlen_66:
(10, 39685), (Start: 12 @39718 has 35 MA's),

Gene: Nicky22_65 Start: 40157, Stop: 40387, Start Num: 12
Candidate Starts for Nicky22_65:
(9, 40088), (10, 40124), (Start: 12 @40157 has 35 MA's), (22, 40364),

Gene: Olliecat_64 Start: 38251, Stop: 38469, Start Num: 14
Candidate Starts for Olliecat_64:
(Start: 14 @38251 has 7 MA's),

Gene: Phisb_67 Start: 40062, Stop: 40292, Start Num: 12
Candidate Starts for Phisb_67:
(Start: 12 @40062 has 35 MA's), (21, 40239), (23, 40281),

Gene: QMacho_67 Start: 40193, Stop: 40423, Start Num: 12
Candidate Starts for QMacho_67:
(Start: 12 @40193 has 35 MA's), (21, 40370), (23, 40412),

Gene: Quenya_66 Start: 40652, Stop: 40870, Start Num: 14
Candidate Starts for Quenya_66:
(Start: 14 @40652 has 7 MA's), (17, 40733), (23, 40859),

Gene: Rollins_64 Start: 38056, Stop: 38301, Start Num: 11
Candidate Starts for Rollins_64:
(Start: 11 @38056 has 7 MA's), (Start: 15 @38083 has 3 MA's),

Gene: Rona_63 Start: 40380, Stop: 40586, Start Num: 16
Candidate Starts for Rona_63:
(8, 40287), (Start: 16 @40380 has 5 MA's), (23, 40575),

Gene: SanaSana_65 Start: 40332, Stop: 40562, Start Num: 13
Candidate Starts for SanaSana_65:
(4, 40188), (10, 40299), (Start: 13 @40332 has 4 MA's),

Gene: SansAfet_67 Start: 40038, Stop: 40268, Start Num: 12
Candidate Starts for SansAfet_67:
(Start: 12 @40038 has 35 MA's), (23, 40257),

Gene: SarBear_66 Start: 39807, Stop: 40037, Start Num: 12
Candidate Starts for SarBear_66:
(10, 39774), (Start: 12 @39807 has 35 MA's),

Gene: Sharkboy_65 Start: 40744, Stop: 40950, Start Num: 16
Candidate Starts for Sharkboy_65:
(Start: 16 @40744 has 5 MA's), (23, 40939),

Gene: Skylord_64 Start: 37973, Stop: 38218, Start Num: 11
Candidate Starts for Skylord_64:
(Start: 11 @37973 has 7 MA's), (Start: 15 @38000 has 3 MA's),

Gene: Slay_67 Start: 40573, Stop: 40803, Start Num: 12
Candidate Starts for Slay_67:
(3, 40405), (10, 40540), (Start: 12 @40573 has 35 MA's), (23, 40792),

Gene: Squircle_64 Start: 38250, Stop: 38468, Start Num: 14
Candidate Starts for Squircle_64:
(Start: 14 @38250 has 7 MA's),

Gene: Stoor_63 Start: 40119, Stop: 40349, Start Num: 13
Candidate Starts for Stoor_63:
(4, 39975), (10, 40086), (Start: 13 @40119 has 4 MA's),

Gene: Stromboli_63 Start: 39920, Stop: 40150, Start Num: 12
Candidate Starts for Stromboli_63:
(Start: 12 @39920 has 35 MA's),

Gene: Swervy_66 Start: 39844, Stop: 40074, Start Num: 12
Candidate Starts for Swervy_66:
(10, 39811), (Start: 12 @39844 has 35 MA's),

Gene: TukTuk_67 Start: 40352, Stop: 40582, Start Num: 12
Candidate Starts for TukTuk_67:
(10, 40319), (Start: 12 @40352 has 35 MA's), (23, 40571),

Gene: Vitas_64 Start: 38029, Stop: 38274, Start Num: 11

Candidate Starts for Vitas_64:
(Start: 11 @38029 has 7 MA's), (Start: 15 @38056 has 3 MA's),

Gene: WalkingDead_66 Start: 41098, Stop: 41328, Start Num: 12
Candidate Starts for WalkingDead_66:
(2, 40915), (Start: 12 @41098 has 35 MA's), (22, 41305), (23, 41317),