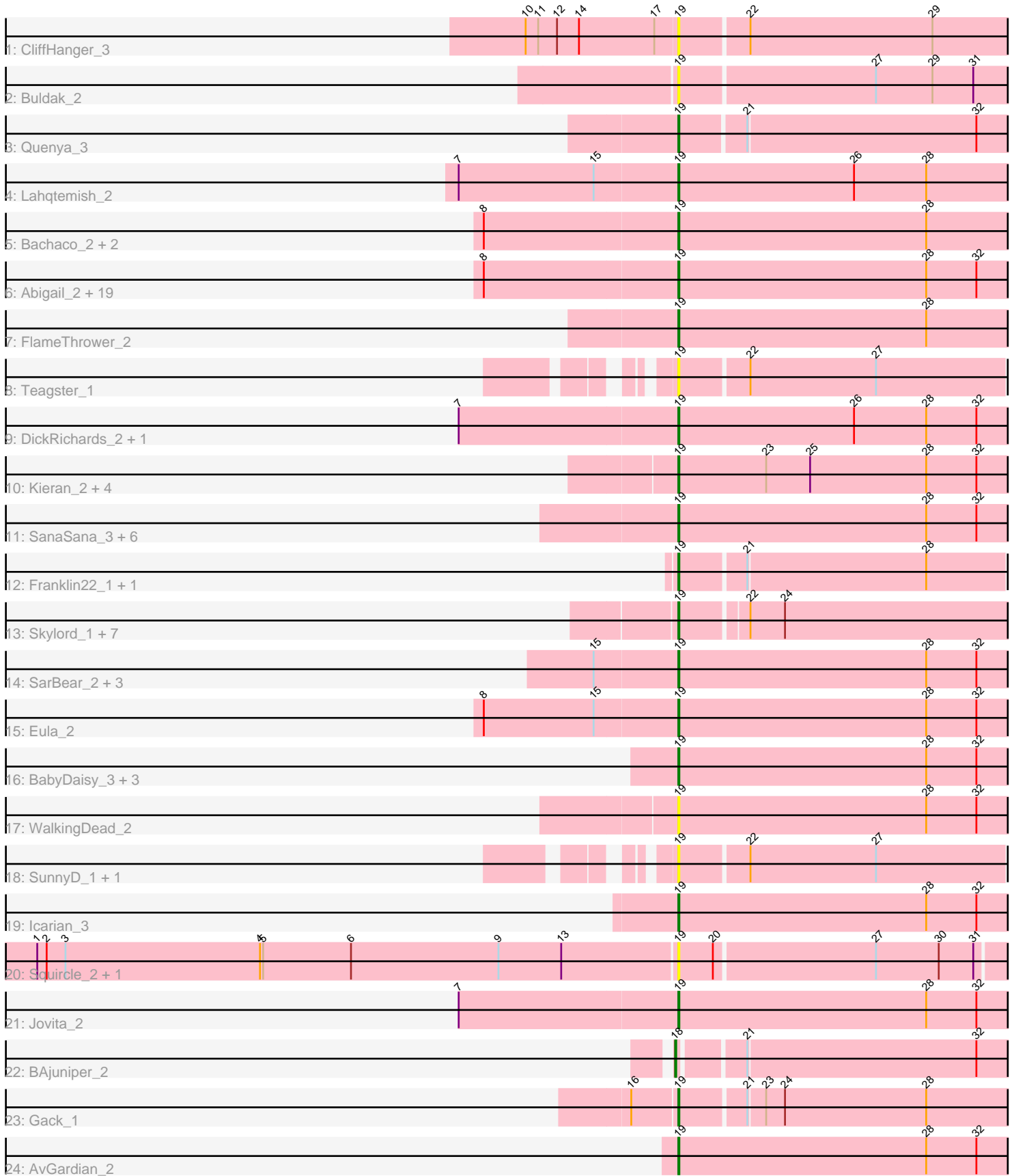


Pham 196499



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 196499 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196499 has 72 members, 11 are drafts.

Phages represented in each track:

- Track 1 : CliffHanger_3
- Track 2 : Buldak_2
- Track 3 : Quenya_3
- Track 4 : Lahqtemish_2
- Track 5 : Bachaco_2, Celaena_2, Katzastrophic_2
- Track 6 : Abigail_2, AnnaLie_2, Avocadoman_2, LimaBean_2, Arroyo_3, SansAfet_2, BelmontSKP_2, Phisb_2, Kenzers_2, Albedo_2, Lynlen_2, QMacho_3, Burritobowl_2, Johnathan_2, Albright_2, Nicky22_3, Doobus_2, BubbaBear_2, Cashington_2, CroZenni_2
- Track 7 : FlameThrower_2
- Track 8 : Teagster_1
- Track 9 : DickRichards_2, Slay_2
- Track 10 : Kieran_2, Rona_2, Sharkboy_2, ChiliPepper_2, Dismas_2
- Track 11 : SanaSana_3, Loviatar_5, Stoor_2, BabyYoda_2, Elva_3, DirtyBubble_2, Stromboli_2
- Track 12 : Franklin22_1, Eden_1
- Track 13 : Skylord_1, Coltrane_1, Clayda5_1, Bernstein_1, Armstrong_1, Brahms_1, Vitas_1, Rollins_1
- Track 14 : SarBear_2, TukTuk_2, Finalfrontier_3, Swervy_2
- Track 15 : Eula_2
- Track 16 : BabyDaisy_3, IndyLu_2, Kate33_2, Didgeridoo_3
- Track 17 : WalkingDead_2
- Track 18 : SunnyD_1, Shayna_1
- Track 19 : Icarian_3
- Track 20 : Squircle_2, Olliecat_2
- Track 21 : Jovita_2
- Track 22 : BAjuniper_2
- Track 23 : Gack_1
- Track 24 : AvGuardian_2

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

The start number called the most often in the published annotations is 19, it was called in 60 of the 61 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail_2, Albedo_2, Albright_2, AnnaLie_2, Armstrong_1, Arroyo_3, AvGardian_2, Avocadoman_2, BabyDaisy_3, BabyYoda_2, Bachaco_2, BelmontSKP_2, Bernstein_1, Brahms_1, BubbaBear_2, Buldak_2, Burritobowl_2, Cashington_2, Celaena_2, ChiliPepper_2, Clayda5_1, CliffHanger_3, Coltrane_1, CroZenni_2, DickRichards_2, Didgeridoo_3, DirtyBubble_2, Dismas_2, Doobus_2, Eden_1, Elva_3, Eula_2, Finalfrontier_3, FlameThrower_2, Franklin22_1, Gack_1, Icarian_3, IndyLu_2, Johnathan_2, Jovita_2, Kate33_2, Katzastrophic_2, Kenzers_2, Kieran_2, Lahqtemish_2, LimaBean_2, Loviatar_5, Lynlen_2, Nicky22_3, Olliecat_2, Phisb_2, QMacho_3, Quenya_3, Rollins_1, Rona_2, SanaSana_3, SansAfet_2, SarBear_2, Sharkboy_2, Shayna_1, Skylord_1, Slay_2, Squircle_2, Stoor_2, Stromboli_2, SunnyD_1, Swervy_2, Teagster_1, TukTuk_2, Vitas_1, WalkingDead_2,

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

-

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

- BAjuniper_2,

Summary by start number:

Start 18:

- Found in 1 of 72 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 61
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAjuniper_2 (EB),

Start 19:

- Found in 71 of 72 (98.6%) of genes in pham
- Manual Annotations of this start: 60 of 61
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail_2 (EB), Albedo_2 (EB), Albright_2 (EB), AnnaLie_2 (EB), Armstrong_1 (EB), Arroyo_3 (EB), AvGardian_2 (EB), Avocadoman_2 (EB), BabyDaisy_3 (EB), BabyYoda_2 (EB), Bachaco_2 (EB), BelmontSKP_2 (EB), Bernstein_1 (EB), Brahms_1 (EB), BubbaBear_2 (EB), Buldak_2 (EB), Burritobowl_2 (EB), Cashington_2 (EB), Celaena_2 (EB), ChiliPepper_2 (EB), Clayda5_1 (EB), CliffHanger_3 (EB), Coltrane_1 (EB), CroZenni_2 (EB), DickRichards_2 (EB), Didgeridoo_3 (EB), DirtyBubble_2 (EB), Dismas_2 (EB), Doobus_2 (EB), Eden_1 (EB), Elva_3 (EB), Eula_2 (EB), Finalfrontier_3 (EB), FlameThrower_2 (EB), Franklin22_1 (EB), Gack_1 (EB), Icarian_3 (EB), IndyLu_2 (EB), Johnathan_2 (EB), Jovita_2 (EB), Kate33_2 (EB), Katzastrophic_2 (EB), Kenzers_2 (EB), Kieran_2 (EB), Lahqtemish_2 (EB), LimaBean_2 (EB), Loviatar_5 (EB), Lynlen_2 (EB), Nicky22_3 (EB), Olliecat_2 (EB), Phisb_2 (EB), QMacho_3 (EB), Quenya_3 (EB), Rollins_1 (EB), Rona_2 (EB), SanaSana_3 (EB), SansAfet_2 (EB), SarBear_2 (EB), Sharkboy_2 (EB), Shayna_1 (EB), Skylord_1 (EB), Slay_2 (EB), Squircle_2 (EB), Stoor_2 (EB), Stromboli_2 (EB), SunnyD_1 (EB), Swervy_2 (EB), Teagster_1 (EB), TukTuk_2 (EB), Vitas_1 (EB), WalkingDead_2 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 18 was manually annotated 1 time for cluster EB.
- Start number 19 was manually annotated 60 times for cluster EB.

Gene Information:

Gene: Abigail_2 Start: 362, Stop: 685, Start Num: 19
Candidate Starts for Abigail_2:
(8, 179), (Start: 19 @362 has 60 MA's), (28, 599), (32, 647),

Gene: Albedo_2 Start: 350, Stop: 673, Start Num: 19
Candidate Starts for Albedo_2:
(8, 167), (Start: 19 @350 has 60 MA's), (28, 587), (32, 635),

Gene: Albright_2 Start: 362, Stop: 685, Start Num: 19
Candidate Starts for Albright_2:
(8, 179), (Start: 19 @362 has 60 MA's), (28, 599), (32, 647),

Gene: AnnaLie_2 Start: 362, Stop: 688, Start Num: 19
Candidate Starts for AnnaLie_2:
(8, 179), (Start: 19 @362 has 60 MA's), (28, 599), (32, 647),

Gene: Armstrong_1 Start: 282, Stop: 590, Start Num: 19
Candidate Starts for Armstrong_1:
(Start: 19 @282 has 60 MA's), (22, 342), (24, 375),

Gene: Arroyo_3 Start: 832, Stop: 1155, Start Num: 19
Candidate Starts for Arroyo_3:
(8, 649), (Start: 19 @832 has 60 MA's), (28, 1069), (32, 1117),

Gene: AvGardian_2 Start: 426, Stop: 752, Start Num: 19
Candidate Starts for AvGardian_2:
(Start: 19 @426 has 60 MA's), (28, 663), (32, 711),

Gene: Avocadoman_2 Start: 420, Stop: 743, Start Num: 19
Candidate Starts for Avocadoman_2:
(8, 237), (Start: 19 @420 has 60 MA's), (28, 657), (32, 705),

Gene: BAjuniper_2 Start: 466, Stop: 777, Start Num: 18
Candidate Starts for BAjuniper_2:
(Start: 18 @466 has 1 MA's), (21, 523), (32, 739),

Gene: BabyDaisy_3 Start: 618, Stop: 941, Start Num: 19
Candidate Starts for BabyDaisy_3:
(Start: 19 @618 has 60 MA's), (28, 855), (32, 903),

Gene: BabyYoda_2 Start: 631, Stop: 954, Start Num: 19
Candidate Starts for BabyYoda_2:
(Start: 19 @631 has 60 MA's), (28, 868), (32, 916),

Gene: Bachaco_2 Start: 612, Stop: 935, Start Num: 19
Candidate Starts for Bachaco_2:
(8, 429), (Start: 19 @612 has 60 MA's), (28, 849),

Gene: BelmontSKP_2 Start: 362, Stop: 688, Start Num: 19
Candidate Starts for BelmontSKP_2:
(8, 179), (Start: 19 @362 has 60 MA's), (28, 599), (32, 647),

Gene: Bernstein_1 Start: 342, Stop: 650, Start Num: 19
Candidate Starts for Bernstein_1:
(Start: 19 @342 has 60 MA's), (22, 402), (24, 435),

Gene: Brahms_1 Start: 282, Stop: 590, Start Num: 19
Candidate Starts for Brahms_1:
(Start: 19 @282 has 60 MA's), (22, 342), (24, 375),

Gene: BubbaBear_2 Start: 350, Stop: 673, Start Num: 19
Candidate Starts for BubbaBear_2:
(8, 167), (Start: 19 @350 has 60 MA's), (28, 587), (32, 635),

Gene: Buldak_2 Start: 702, Stop: 1022, Start Num: 19
Candidate Starts for Buldak_2:
(Start: 19 @702 has 60 MA's), (27, 885), (29, 939), (31, 978),

Gene: Burritobowl_2 Start: 360, Stop: 683, Start Num: 19
Candidate Starts for Burritobowl_2:
(8, 177), (Start: 19 @360 has 60 MA's), (28, 597), (32, 645),

Gene: Cashington_2 Start: 350, Stop: 673, Start Num: 19
Candidate Starts for Cashington_2:
(8, 167), (Start: 19 @350 has 60 MA's), (28, 587), (32, 635),

Gene: Celaena_2 Start: 549, Stop: 872, Start Num: 19
Candidate Starts for Celaena_2:
(8, 366), (Start: 19 @549 has 60 MA's), (28, 786),

Gene: ChiliPepper_2 Start: 615, Stop: 941, Start Num: 19
Candidate Starts for ChiliPepper_2:
(Start: 19 @615 has 60 MA's), (23, 699), (25, 741), (28, 852), (32, 900),

Gene: Clayda5_1 Start: 282, Stop: 590, Start Num: 19
Candidate Starts for Clayda5_1:
(Start: 19 @282 has 60 MA's), (22, 342), (24, 375),

Gene: CliffHanger_3 Start: 483, Stop: 791, Start Num: 19
Candidate Starts for CliffHanger_3:
(10, 339), (11, 351), (12, 369), (14, 390), (17, 462), (Start: 19 @483 has 60 MA's), (22, 546), (29, 720),

Gene: Coltrane_1 Start: 282, Stop: 590, Start Num: 19
Candidate Starts for Coltrane_1:
(Start: 19 @282 has 60 MA's), (22, 342), (24, 375),

Gene: CroZenni_2 Start: 362, Stop: 685, Start Num: 19

Candidate Starts for CroZenni_2:
(8, 179), (Start: 19 @362 has 60 MA's), (28, 599), (32, 647),

Gene: DickRichards_2 Start: 833, Stop: 1156, Start Num: 19
Candidate Starts for DickRichards_2:
(7, 626), (Start: 19 @833 has 60 MA's), (26, 1001), (28, 1070), (32, 1118),

Gene: Didgeridoo_3 Start: 618, Stop: 941, Start Num: 19
Candidate Starts for Didgeridoo_3:
(Start: 19 @618 has 60 MA's), (28, 855), (32, 903),

Gene: DirtyBubble_2 Start: 630, Stop: 953, Start Num: 19
Candidate Starts for DirtyBubble_2:
(Start: 19 @630 has 60 MA's), (28, 867), (32, 915),

Gene: Dismas_2 Start: 615, Stop: 941, Start Num: 19
Candidate Starts for Dismas_2:
(Start: 19 @615 has 60 MA's), (23, 699), (25, 741), (28, 852), (32, 900),

Gene: Doobus_2 Start: 584, Stop: 907, Start Num: 19
Candidate Starts for Doobus_2:
(8, 401), (Start: 19 @584 has 60 MA's), (28, 821), (32, 869),

Gene: Eden_1 Start: 342, Stop: 656, Start Num: 19
Candidate Starts for Eden_1:
(Start: 19 @342 has 60 MA's), (21, 402), (28, 570),

Gene: Elva_3 Start: 688, Stop: 1011, Start Num: 19
Candidate Starts for Elva_3:
(Start: 19 @688 has 60 MA's), (28, 925), (32, 973),

Gene: Eula_2 Start: 349, Stop: 672, Start Num: 19
Candidate Starts for Eula_2:
(8, 166), (15, 271), (Start: 19 @349 has 60 MA's), (28, 586), (32, 634),

Gene: Finalfrontier_3 Start: 855, Stop: 1178, Start Num: 19
Candidate Starts for Finalfrontier_3:
(15, 777), (Start: 19 @855 has 60 MA's), (28, 1092), (32, 1140),

Gene: FlameThrower_2 Start: 545, Stop: 868, Start Num: 19
Candidate Starts for FlameThrower_2:
(Start: 19 @545 has 60 MA's), (28, 782),

Gene: Franklin22_1 Start: 350, Stop: 664, Start Num: 19
Candidate Starts for Franklin22_1:
(Start: 19 @350 has 60 MA's), (21, 410), (28, 578),

Gene: Gack_1 Start: 383, Stop: 700, Start Num: 19
Candidate Starts for Gack_1:
(16, 341), (Start: 19 @383 has 60 MA's), (21, 443), (23, 458), (24, 476), (28, 611),

Gene: Icarian_3 Start: 622, Stop: 945, Start Num: 19
Candidate Starts for Icarian_3:

(Start: 19 @622 has 60 MA's), (28, 859), (32, 907),

Gene: IndyLu_2 Start: 442, Stop: 765, Start Num: 19

Candidate Starts for IndyLu_2:

(Start: 19 @442 has 60 MA's), (28, 679), (32, 727),

Gene: Johnathan_2 Start: 362, Stop: 685, Start Num: 19

Candidate Starts for Johnathan_2:

(8, 179), (Start: 19 @362 has 60 MA's), (28, 599), (32, 647),

Gene: Jovita_2 Start: 475, Stop: 798, Start Num: 19

Candidate Starts for Jovita_2:

(7, 268), (Start: 19 @475 has 60 MA's), (28, 712), (32, 760),

Gene: Kate33_2 Start: 442, Stop: 765, Start Num: 19

Candidate Starts for Kate33_2:

(Start: 19 @442 has 60 MA's), (28, 679), (32, 727),

Gene: Katzastrophic_2 Start: 612, Stop: 935, Start Num: 19

Candidate Starts for Katzastrophic_2:

(8, 429), (Start: 19 @612 has 60 MA's), (28, 849),

Gene: Kenzers_2 Start: 350, Stop: 673, Start Num: 19

Candidate Starts for Kenzers_2:

(8, 167), (Start: 19 @350 has 60 MA's), (28, 587), (32, 635),

Gene: Kieran_2 Start: 615, Stop: 941, Start Num: 19

Candidate Starts for Kieran_2:

(Start: 19 @615 has 60 MA's), (23, 699), (25, 741), (28, 852), (32, 900),

Gene: Lahqtemish_2 Start: 442, Stop: 765, Start Num: 19

Candidate Starts for Lahqtemish_2:

(7, 235), (15, 364), (Start: 19 @442 has 60 MA's), (26, 610), (28, 679),

Gene: LimaBean_2 Start: 362, Stop: 685, Start Num: 19

Candidate Starts for LimaBean_2:

(8, 179), (Start: 19 @362 has 60 MA's), (28, 599), (32, 647),

Gene: Loviatar_5 Start: 633, Stop: 956, Start Num: 19

Candidate Starts for Loviatar_5:

(Start: 19 @633 has 60 MA's), (28, 870), (32, 918),

Gene: Lynlen_2 Start: 350, Stop: 673, Start Num: 19

Candidate Starts for Lynlen_2:

(8, 167), (Start: 19 @350 has 60 MA's), (28, 587), (32, 635),

Gene: Nicky22_3 Start: 824, Stop: 1147, Start Num: 19

Candidate Starts for Nicky22_3:

(8, 641), (Start: 19 @824 has 60 MA's), (28, 1061), (32, 1109),

Gene: Olliecat_2 Start: 648, Stop: 953, Start Num: 19

Candidate Starts for Olliecat_2:

(1, 39), (2, 48), (3, 66), (4, 252), (5, 255), (6, 339), (9, 480), (13, 540), (Start: 19 @648 has 60 MA's),
(20, 681), (27, 831), (30, 891), (31, 924),

Gene: Phisb_2 Start: 350, Stop: 673, Start Num: 19

Candidate Starts for Phisb_2:

(8, 167), (Start: 19 @350 has 60 MA's), (28, 587), (32, 635),

Gene: QMacho_3 Start: 832, Stop: 1155, Start Num: 19

Candidate Starts for QMacho_3:

(8, 649), (Start: 19 @832 has 60 MA's), (28, 1069), (32, 1117),

Gene: Quenya_3 Start: 613, Stop: 927, Start Num: 19

Candidate Starts for Quenya_3:

(Start: 19 @613 has 60 MA's), (21, 673), (32, 889),

Gene: Rollins_1 Start: 342, Stop: 650, Start Num: 19

Candidate Starts for Rollins_1:

(Start: 19 @342 has 60 MA's), (22, 402), (24, 435),

Gene: Rona_2 Start: 615, Stop: 941, Start Num: 19

Candidate Starts for Rona_2:

(Start: 19 @615 has 60 MA's), (23, 699), (25, 741), (28, 852), (32, 900),

Gene: SanaSana_3 Start: 633, Stop: 956, Start Num: 19

Candidate Starts for SanaSana_3:

(Start: 19 @633 has 60 MA's), (28, 870), (32, 918),

Gene: SansAfet_2 Start: 350, Stop: 673, Start Num: 19

Candidate Starts for SansAfet_2:

(8, 167), (Start: 19 @350 has 60 MA's), (28, 587), (32, 635),

Gene: SarBear_2 Start: 349, Stop: 672, Start Num: 19

Candidate Starts for SarBear_2:

(15, 271), (Start: 19 @349 has 60 MA's), (28, 586), (32, 634),

Gene: Sharkboy_2 Start: 614, Stop: 940, Start Num: 19

Candidate Starts for Sharkboy_2:

(Start: 19 @614 has 60 MA's), (23, 698), (25, 740), (28, 851), (32, 899),

Gene: Shayna_1 Start: 339, Stop: 644, Start Num: 19

Candidate Starts for Shayna_1:

(Start: 19 @339 has 60 MA's), (22, 402), (27, 522),

Gene: Skylord_1 Start: 282, Stop: 590, Start Num: 19

Candidate Starts for Skylord_1:

(Start: 19 @282 has 60 MA's), (22, 342), (24, 375),

Gene: Slay_2 Start: 832, Stop: 1155, Start Num: 19

Candidate Starts for Slay_2:

(7, 625), (Start: 19 @832 has 60 MA's), (26, 1000), (28, 1069), (32, 1117),

Gene: Squircle_2 Start: 648, Stop: 953, Start Num: 19

Candidate Starts for Squircle_2:

(1, 39), (2, 48), (3, 66), (4, 252), (5, 255), (6, 339), (9, 480), (13, 540), (Start: 19 @648 has 60 MA's),
(20, 681), (27, 831), (30, 891), (31, 924),

Gene: Stoor_2 Start: 630, Stop: 953, Start Num: 19
Candidate Starts for Stoor_2:
(Start: 19 @630 has 60 MA's), (28, 867), (32, 915),

Gene: Stromboli_2 Start: 630, Stop: 953, Start Num: 19
Candidate Starts for Stromboli_2:
(Start: 19 @630 has 60 MA's), (28, 867), (32, 915),

Gene: SunnyD_1 Start: 339, Stop: 644, Start Num: 19
Candidate Starts for SunnyD_1:
(Start: 19 @339 has 60 MA's), (22, 402), (27, 522),

Gene: Swervy_2 Start: 349, Stop: 672, Start Num: 19
Candidate Starts for Swervy_2:
(15, 271), (Start: 19 @349 has 60 MA's), (28, 586), (32, 634),

Gene: Teagster_1 Start: 342, Stop: 647, Start Num: 19
Candidate Starts for Teagster_1:
(Start: 19 @342 has 60 MA's), (22, 405), (27, 525),

Gene: TukTuk_2 Start: 349, Stop: 672, Start Num: 19
Candidate Starts for TukTuk_2:
(15, 271), (Start: 19 @349 has 60 MA's), (28, 586), (32, 634),

Gene: Vitas_1 Start: 282, Stop: 590, Start Num: 19
Candidate Starts for Vitas_1:
(Start: 19 @282 has 60 MA's), (22, 342), (24, 375),

Gene: WalkingDead_2 Start: 621, Stop: 944, Start Num: 19
Candidate Starts for WalkingDead_2:
(Start: 19 @621 has 60 MA's), (28, 858), (32, 906),