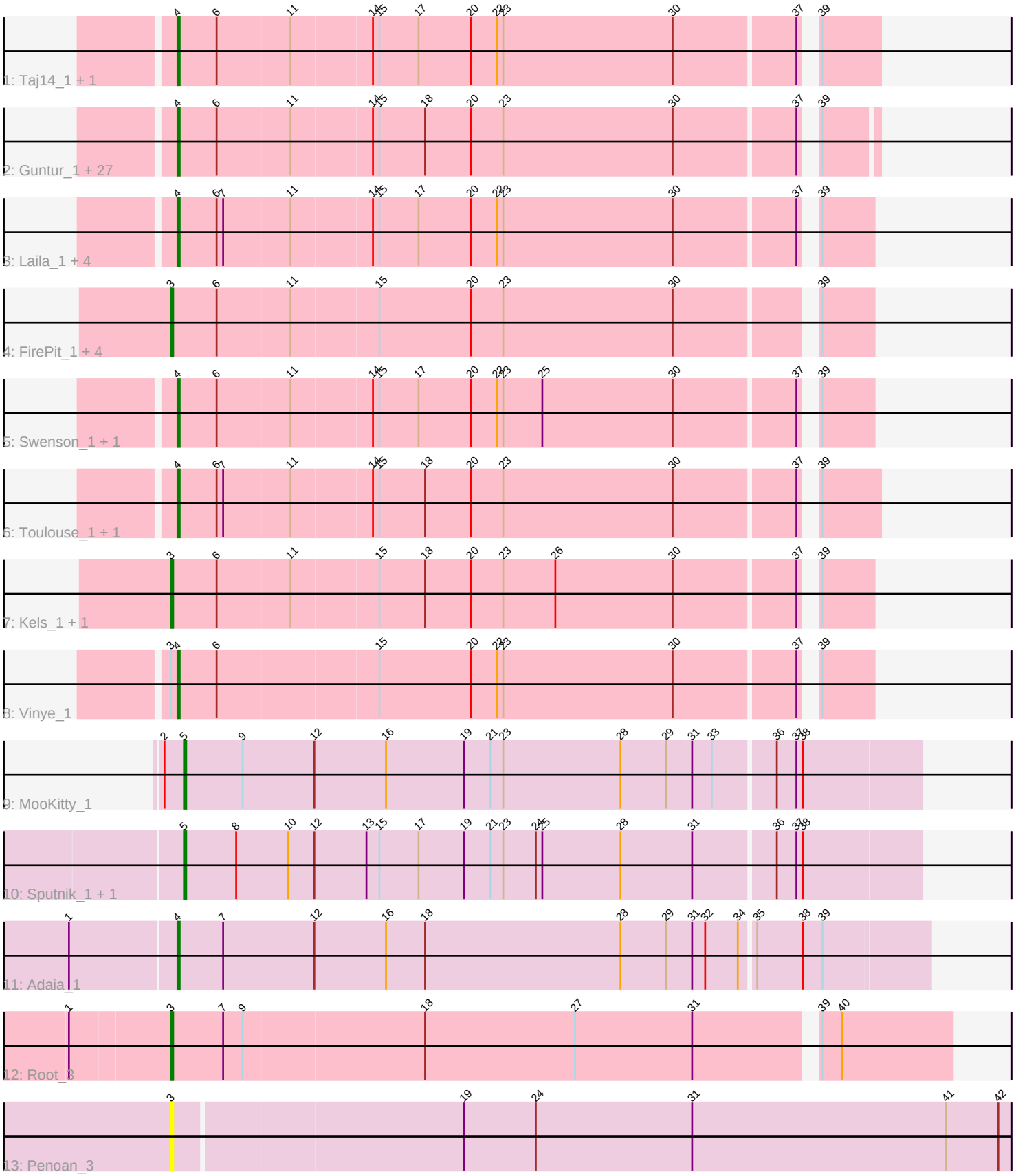
Pham 347691


1: Taj14_1 + 1
2: Guntur_1 + 27
3: Laila_1 + 4
4: FirePit_1 + 4
5: Swenson_1 + 1
6: Toulouse_1 + 1
7: Kels_1 + 1
8: Vinye_1
9: MooKitty_1
10: Sputnik_1 + 1
11: Adaia_1
12: Root_3
13: Penoan_3

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 347691 Report

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

Pham number 347691 has 53 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Taj14_1, KylieMac_1
• Track 2 : Guntur_1, Inspire2_1, Jessica_1, Massimo_1, LouisXIV_1, CGermain_1, Yank_1, Sandman_1, TinoCrisci_1, Muttlie_1, Moloch_1, Maggie_1, TymAbreu_1, ElectricPheel_1, Courtney3_1, Hunnie_1, Ronnie_1, Chestnut_1, Azathoth_1, Arby_1, Stratus_1, Link_1, Dewayne_1, Prospero_1, Copper_1, Decurro_1, Mariposa_1, Sourignavong_1
• Track 3 : Laila_1, Blair_1, Lore_1, Elkhorn_1, StewieGriff_1
• Track 4 : FirePit_1, Eyoseyas_1, Ximeno_1, Arielagos_1, SerialPhiller_1
• Track 5 : Swenson_1, Saphira_1
• Track 6 : Toulouse_1, Seume_1
• Track 7 : Kels_1, StrawberryLem_1
• Track 8 : Vinye_1
• Track 9 : MooKitty_1
• Track 10 : Sputnik_1, Atraxa_1
• Track 11 : Adaia_1
• Track 12 : Root_3
• Track 13 : Penoan_3

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

The start number called the most often in the published annotations is 4, it was called in 41 of the 51 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adaia_1, Arby_1, Azathoth_1, Blair_1, CGermain_1, Chestnut_1, Copper_1, Courtney3_1, Decurro_1, Dewayne_1, ElectricPheel_1, Elkhorn_1, Guntur_1, Hunnie_1, Inspire2_1, Jessica_1, KylieMac_1, Laila_1, Link_1, Lore_1, LouisXIV_1, Maggie_1, Mariposa_1, Massimo_1, Moloch_1, Muttlie_1, Prospero_1, Ronnie_1, Sandman_1, Saphira_1, Seume_1, Sourignavong_1, StewieGriff_1, Stratus_1, Swenson_1, Taj14_1, TinoCrisci_1, Toulouse_1, TymAbreu_1, Vinye_1, Yank_1,

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

Genes that do not have the "Most Annotated" start:
• Arielagos_1, Atraxa_1, Eyoseyas_1, FirePit_1, Kels_1, MooKitty_1, Penoan_3, Root_3, SerialPhiller_1, Sputnik_1, StrawberryLem_1, Ximeno_1,

Summary by start number:

Start 3:
• Found in 10 of 53 (18.9%) of genes in pham
• Manual Annotations of this start: 7 of 51
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Arielagos_1 (AN), Eyoseyas_1 (AN), FirePit_1 (AN), Kels_1 (AN), Penoan_3 (UNK), Root_3 (JC), SerialPhiller_1 (AN), StrawberryLem_1 (AN), Ximeno_1 (AN),

Start 4:
• Found in 41 of 53 (77.4%) of genes in pham
• Manual Annotations of this start: 41 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adaia_1 (AX), Arby_1 (AN), Azathoth_1 (AN), Blair_1 (AN), CGermain_1 (AN), Chestnut_1 (AN), Copper_1 (AN), Courtney3_1 (AN), Decurro_1 (AN), Dewayne_1 (AN), ElectricPheel_1 (AN), Elkhorn_1 (AN), Guntur_1 (AN), Hunnie_1 (AN), Inspire2_1 (AN), Jessica_1 (AN), KylieMac_1 (AN), Laila_1 (AN), Link_1 (AN), Lore_1 (AN), LouisXIV_1 (AN), Maggie_1 (AN), Mariposa_1 (AN), Massimo_1 (AN), Moloch_1 (AN), Muttlie_1 (AN), Prospero_1 (AN), Ronnie_1 (AN), Sandman_1 (AN), Saphira_1 (AN), Seume_1 (AN), Sourignavong_1 (AN), StewieGriff_1 (AN), Stratus_1 (AN), Swenson_1 (AN), Taj14_1 (AN), TinoCrisci_1 (AN), Toulouse_1 (AN), TymAbreu_1 (AN), Vinye_1 (AN), Yank_1 (AN),

Start 5:
• Found in 3 of 53 (5.7%) of genes in pham
• Manual Annotations of this start: 3 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atraxa_1 (AX), MooKitty_1 (AX), Sputnik_1 (AX),

Summary by clusters:

There are 4 clusters represented in this pham: JC, AX, UNK, AN,

Info for manual annotations of cluster AN:
•Start number 3 was manually annotated 6 times for cluster AN.
•Start number 4 was manually annotated 40 times for cluster AN.

Info for manual annotations of cluster AX:
•Start number 4 was manually annotated 1 time for cluster AX.
•Start number 5 was manually annotated 3 times for cluster AX.

Info for manual annotations of cluster JC:
•Start number 3 was manually annotated 1 time for cluster JC.

Gene Information:

Gene: Adaia_1 Start: 87, Stop: 428, Start Num: 4
Candidate Starts for Adaia_1:
(1, 39), (Start: 4 @87 has 41 MA's), (7, 108), (12, 150), (16, 183), (18, 201), (28, 291), (29, 312), (31, 324), (32, 330), (34, 345), (35, 351), (38, 372), (39, 381),

Gene: Arby_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Arby_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Arielagos_1 Start: 44, Stop: 352, Start Num: 3
Candidate Starts for Arielagos_1:
(Start: 3 @44 has 7 MA's), (6, 65), (11, 98), (15, 137), (20, 179), (23, 194), (30, 272), (39, 329),

Gene: Atraxa_1 Start: 88, Stop: 423, Start Num: 5
Candidate Starts for Atraxa_1:
(Start: 5 @88 has 3 MA's), (8, 112), (10, 136), (12, 148), (13, 172), (15, 178), (17, 196), (19, 217), (21, 229), (23, 235), (24, 250), (25, 253), (28, 289), (31, 322), (36, 358), (37, 367), (38, 370),

Gene: Azathoth_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Azathoth_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Blair_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Blair_1:
(Start: 4 @43 has 41 MA's), (6, 61), (7, 64), (11, 94), (14, 130), (15, 133), (17, 151), (20, 175), (22, 187), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: CGermain_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for CGermain_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Chestnut_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Chestnut_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Copper_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Copper_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Courtney3_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Courtney3_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Decurro_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Decurro_1:

(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Dewayne_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Dewayne_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: ElectricPheel_1 Start: 43, Stop: 351, Start Num: 4
Candidate Starts for ElectricPheel_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Elkhorn_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Elkhorn_1:
(Start: 4 @43 has 41 MA's), (6, 61), (7, 64), (11, 94), (14, 130), (15, 133), (17, 151), (20, 175), (22, 187), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Eyoseyas_1 Start: 44, Stop: 352, Start Num: 3
Candidate Starts for Eyoseyas_1:
(Start: 3 @44 has 7 MA's), (6, 65), (11, 98), (15, 137), (20, 179), (23, 194), (30, 272), (39, 329),

Gene: FirePit_1 Start: 44, Stop: 352, Start Num: 3
Candidate Starts for FirePit_1:
(Start: 3 @44 has 7 MA's), (6, 65), (11, 98), (15, 137), (20, 179), (23, 194), (30, 272), (39, 329),

Gene: Guntur_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Guntur_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Hunnie_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Hunnie_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Inspire2_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Inspire2_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Jessica_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Jessica_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Kels_1 Start: 44, Stop: 352, Start Num: 3
Candidate Starts for Kels_1:
(Start: 3 @44 has 7 MA's), (6, 65), (11, 98), (15, 137), (18, 158), (20, 179), (23, 194), (26, 218), (30, 272), (37, 326), (39, 329),

Gene: KylieMac_1 Start: 43, Stop: 351, Start Num: 4
Candidate Starts for KylieMac_1:

(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (17, 151), (20, 175), (22, 187), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Laila_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Laila_1:
(Start: 4 @43 has 41 MA's), (6, 61), (7, 64), (11, 94), (14, 130), (15, 133), (17, 151), (20, 175), (22, 187), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Link_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Link_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Lore_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Lore_1:
(Start: 4 @43 has 41 MA's), (6, 61), (7, 64), (11, 94), (14, 130), (15, 133), (17, 151), (20, 175), (22, 187), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: LouisXIV_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for LouisXIV_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Maggie_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Maggie_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Mariposa_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Mariposa_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Massimo_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Massimo_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Moloch_1 Start: 43, Stop: 351, Start Num: 4
Candidate Starts for Moloch_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: MooKitty_1 Start: 101, Stop: 436, Start Num: 5
Candidate Starts for MooKitty_1:
(2, 92), (Start: 5 @101 has 3 MA's), (9, 128), (12, 161), (16, 194), (19, 230), (21, 242), (23, 248), (28, 302), (29, 323), (31, 335), (33, 344), (36, 371), (37, 380), (38, 383),

Gene: Muttlie_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Muttlie_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Penoan_3 Start: 833, Stop: 1213, Start Num: 3
Candidate Starts for Penoan_3:
(Start: 3 @833 has 7 MA's), (19, 962), (24, 995), (31, 1067), (41, 1184), (42, 1208),

Gene: Prospero_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Prospero_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Ronnie_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Ronnie_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Root_3 Start: 903, Stop: 1250, Start Num: 3
Candidate Starts for Root_3:
(1, 858), (Start: 3 @903 has 7 MA's), (7, 927), (9, 936), (18, 1017), (27, 1086), (31, 1140), (39, 1191), (40, 1200),

Gene: Sandman_1 Start: 43, Stop: 351, Start Num: 4
Candidate Starts for Sandman_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Saphira_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Saphira_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (17, 151), (20, 175), (22, 187), (23, 190), (25, 208), (30, 268), (37, 322), (39, 325),

Gene: SerialPhiller_1 Start: 44, Stop: 352, Start Num: 3
Candidate Starts for SerialPhiller_1:
(Start: 3 @44 has 7 MA's), (6, 65), (11, 98), (15, 137), (20, 179), (23, 194), (30, 272), (39, 329),

Gene: Seume_1 Start: 43, Stop: 351, Start Num: 4
Candidate Starts for Seume_1:
(Start: 4 @43 has 41 MA's), (6, 61), (7, 64), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Sourignavong_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Sourignavong_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Sputnik_1 Start: 88, Stop: 423, Start Num: 5
Candidate Starts for Sputnik_1:
(Start: 5 @88 has 3 MA's), (8, 112), (10, 136), (12, 148), (13, 172), (15, 178), (17, 196), (19, 217), (21, 229), (23, 235), (24, 250), (25, 253), (28, 289), (31, 322), (36, 358), (37, 367), (38, 370),

Gene: StewieGriff_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for StewieGriff_1:
(Start: 4 @43 has 41 MA's), (6, 61), (7, 64), (11, 94), (14, 130), (15, 133), (17, 151), (20, 175), (22, 187), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Stratus_1 Start: 43, Stop: 351, Start Num: 4
Candidate Starts for Stratus_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: StrawberryLem_1 Start: 44, Stop: 352, Start Num: 3
Candidate Starts for StrawberryLem_1:
(Start: 3 @44 has 7 MA's), (6, 65), (11, 98), (15, 137), (18, 158), (20, 179), (23, 194), (26, 218), (30, 272), (37, 326), (39, 329),

Gene: Swenson_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Swenson_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (17, 151), (20, 175), (22, 187), (23, 190), (25, 208), (30, 268), (37, 322), (39, 325),

Gene: Taj14_1 Start: 43, Stop: 351, Start Num: 4
Candidate Starts for Taj14_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (17, 151), (20, 175), (22, 187), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: TinoCrisci_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for TinoCrisci_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Toulouse_1 Start: 43, Stop: 351, Start Num: 4
Candidate Starts for Toulouse_1:
(Start: 4 @43 has 41 MA's), (6, 61), (7, 64), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: TymAbreu_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for TymAbreu_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Vinye_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Vinye_1:
(Start: 3 @40 has 7 MA's), (Start: 4 @43 has 41 MA's), (6, 61), (15, 133), (20, 175), (22, 187), (23, 190), (30, 268), (37, 322), (39, 325),

Gene: Ximeno_1 Start: 44, Stop: 352, Start Num: 3
Candidate Starts for Ximeno_1:
(Start: 3 @44 has 7 MA's), (6, 65), (11, 98), (15, 137), (20, 179), (23, 194), (30, 272), (39, 329),

Gene: Yank_1 Start: 43, Stop: 348, Start Num: 4
Candidate Starts for Yank_1:
(Start: 4 @43 has 41 MA's), (6, 61), (11, 94), (14, 130), (15, 133), (18, 154), (20, 175), (23, 190), (30, 268), (37, 322), (39, 325),