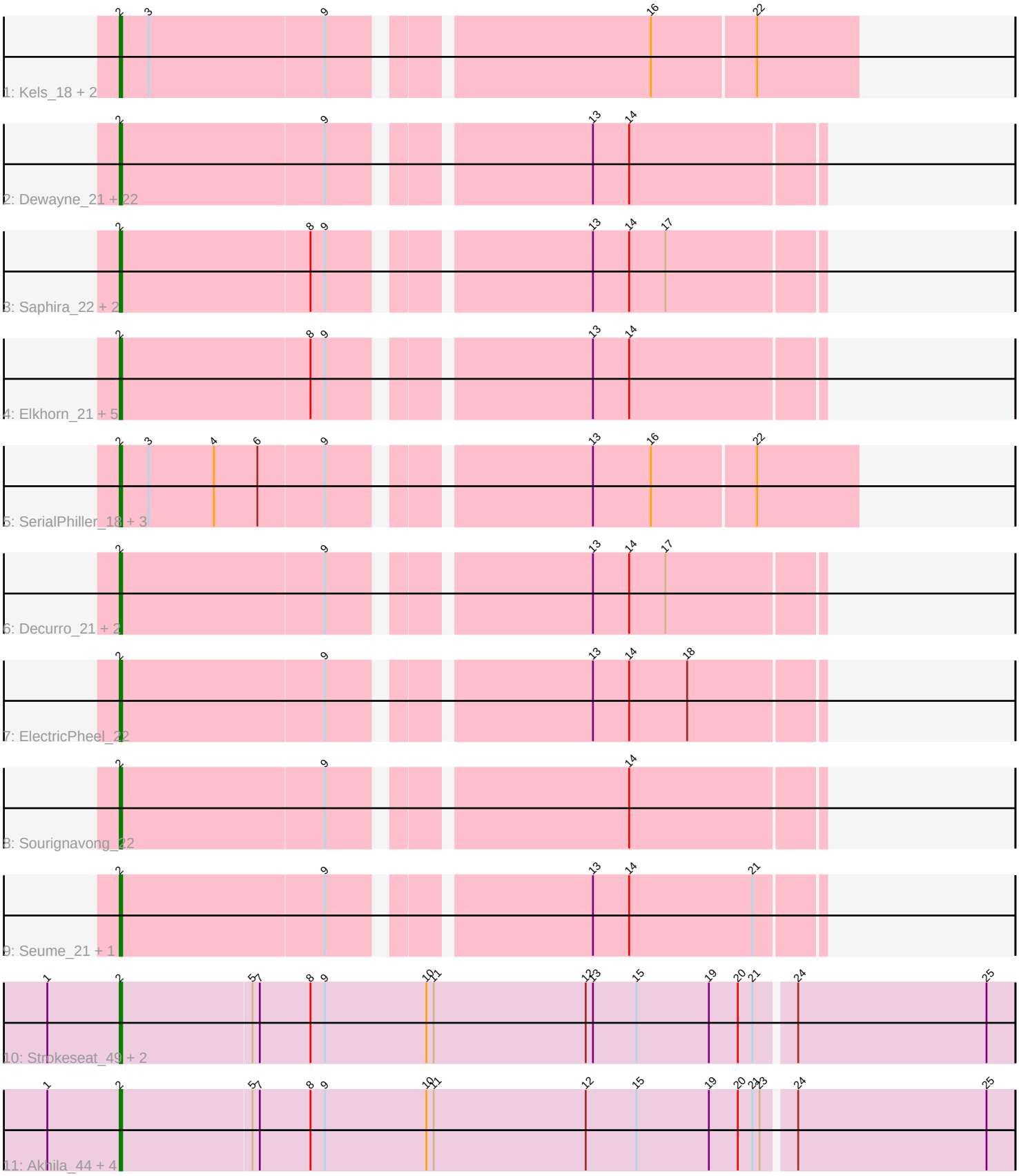
Pham 347680


1: Kels_18 + 2
2: Dewayne_21 + 22
3: Saphira_22 + 2
4: Elkhorn_21 + 5
5: SerialPhiller_18 + 3
6: Decurro_21 + 2
7: ElectricPheel_22
8: Sourignavong_22
9: Seume_21 + 1
10: Strokeseat_49 + 2
11: Akhila_44 + 4

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 347680 Report

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

Pham number 347680 has 54 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Kels_18, FirePit_17, Ximeno_17
• Track 2 : Dewayne_21, Sandman_27, Chestnut_26, CGermain_21, Inspire2_21, LouisXIV_21, Copper_21, Prospero_21, Courtney3_21, Azathoth_21, Muttlie_21, Moloch_21, Arby_21, TinoCrisci_21, Stratus_21, Massimo_21, Ronnie_21, Jessica_22, Mariposa_21, Maggie_21, Hunnie_21, TymAbreu_21, Guntur_21
• Track 3 : Saphira_22, Taj14_21, Swenson_21
• Track 4 : Elkhorn_21, Lore_21, Blair_21, StewieGriff_21, KylieMac_22, Laila_23
• Track 5 : SerialPhiller_18, Eyoseyas_18, StrawberryLem_17, Arielagos_18
• Track 6 : Decurro_21, Yank_21, Link_21
• Track 7 : ElectricPheel_22
• Track 8 : Sourignavong_22
• Track 9 : Seume_21, Toulouse_20
• Track 10 : Strokeseat_49, Hlubikazi_49, Mandlovu_49
• Track 11 : Akhila_44, MilanaBonita_43, LilMoolah_51, SwagPigglett_58, Nivrat_49

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

The start number called the most often in the published annotations is 2, it was called in 53 of the 53 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Akhila_44, Arby_21, Arielagos_18, Azathoth_21, Blair_21, CGermain_21, Chestnut_26, Copper_21, Courtney3_21, Decurro_21, Dewayne_21, ElectricPheel_22, Elkhorn_21, Eyoseyas_18, FirePit_17, Guntur_21, Hlubikazi_49, Hunnie_21, Inspire2_21, Jessica_22, Kels_18, KylieMac_22, Laila_23, LilMoolah_51, Link_21, Lore_21, LouisXIV_21, Maggie_21, Mandlovu_49, Mariposa_21, Massimo_21, MilanaBonita_43, Moloch_21, Muttlie_21, Nivrat_49, Prospero_21, Ronnie_21, Sandman_27, Saphira_22, SerialPhiller_18, Seume_21, Sourignavong_22, StewieGriff_21, Stratus_21, StrawberryLem_17, Strokeseat_49, SwagPigglett_58, Swenson_21, Taj14_21, TinoCrisci_21, Toulouse_20, TymAbreu_21, Ximeno_17, Yank_21,

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

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

Summary by start number:

Start 2:
• Found in 54 of 54 (100.0%) of genes in pham
• Manual Annotations of this start: 53 of 53
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Akhila_44 (F1), Arby_21 (AN), Arielagos_18 (AN), Azathoth_21 (AN), Blair_21 (AN), CGermain_21 (AN), Chestnut_26 (AN), Copper_21 (AN), Courtney3_21 (AN), Decurro_21 (AN), Dewayne_21 (AN), ElectricPheel_22 (AN), Elkhorn_21 (AN), Eyoseyas_18 (AN), FirePit_17 (AN), Guntur_21 (AN), Hlubikazi_49 (F1), Hunnie_21 (AN), Inspire2_21 (AN), Jessica_22 (AN), Kels_18 (AN), KylieMac_22 (AN), Laila_23 (AN), LilMoolah_51 (F1), Link_21 (AN), Lore_21 (AN), LouisXIV_21 (AN), Maggie_21 (AN), Mandlovu_49 (F1), Mariposa_21 (AN), Massimo_21 (AN), MilanaBonita_43 (F1), Moloch_21 (AN), Muttlie_21 (AN), Nivrat_49 (F1), Prospero_21 (AN), Ronnie_21 (AN), Sandman_27 (AN), Saphira_22 (AN), SerialPhiller_18 (AN), Seume_21 (AN), Sourignavong_22 (AN), StewieGriff_21 (AN), Stratus_21 (AN), StrawberryLem_17 (AN), Strokeseat_49 (F1), SwagPigglett_58 (F1), Swenson_21 (AN), Taj14_21 (AN), TinoCrisci_21 (AN), Toulouse_20 (AN), TymAbreu_21 (AN), Ximeno_17 (AN), Yank_21 (AN),

Summary by clusters:

There are 2 clusters represented in this pham: F1, AN,

Info for manual annotations of cluster AN:
•Start number 2 was manually annotated 45 times for cluster AN.

Info for manual annotations of cluster F1:
•Start number 2 was manually annotated 8 times for cluster F1.

Gene Information:

Gene: Akhila_44 Start: 32876, Stop: 33241, Start Num: 2
Candidate Starts for Akhila_44:
(1, 32846), (Start: 2 @32876 has 53 MA's), (5, 32930), (7, 32933), (8, 32954), (9, 32960), (10, 33002), (11, 33005), (12, 33068), (15, 33089), (19, 33119), (20, 33131), (21, 33137), (23, 33140), (24, 33152), (25, 33230),

Gene: Arby_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Arby_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Arielagos_18 Start: 12965, Stop: 12678, Start Num: 2
Candidate Starts for Arielagos_18:
(Start: 2 @12965 has 53 MA's), (3, 12953), (4, 12926), (6, 12908), (9, 12881), (13, 12785), (16, 12761), (22, 12719),

Gene: Azathoth_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Azathoth_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Blair_21 Start: 13773, Stop: 13501, Start Num: 2
Candidate Starts for Blair_21:
(Start: 2 @13773 has 53 MA's), (8, 13695), (9, 13689), (13, 13593), (14, 13578),

Gene: CGermain_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for CGermain_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Chestnut_26 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Chestnut_26:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Copper_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Copper_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Courtney3_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Courtney3_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Decurro_21 Start: 13744, Stop: 13472, Start Num: 2
Candidate Starts for Decurro_21:
(Start: 2 @13744 has 53 MA's), (9, 13660), (13, 13564), (14, 13549), (17, 13534),

Gene: Dewayne_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Dewayne_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: ElectricPheel_22 Start: 13817, Stop: 13545, Start Num: 2
Candidate Starts for ElectricPheel_22:
(Start: 2 @13817 has 53 MA's), (9, 13733), (13, 13637), (14, 13622), (18, 13598),

Gene: Elkhorn_21 Start: 13773, Stop: 13501, Start Num: 2
Candidate Starts for Elkhorn_21:
(Start: 2 @13773 has 53 MA's), (8, 13695), (9, 13689), (13, 13593), (14, 13578),

Gene: Eyoseyas_18 Start: 12965, Stop: 12678, Start Num: 2
Candidate Starts for Eyoseyas_18:
(Start: 2 @12965 has 53 MA's), (3, 12953), (4, 12926), (6, 12908), (9, 12881), (13, 12785), (16, 12761), (22, 12719),

Gene: FirePit_17 Start: 12977, Stop: 12690, Start Num: 2
Candidate Starts for FirePit_17:
(Start: 2 @12977 has 53 MA's), (3, 12965), (9, 12893), (16, 12773), (22, 12731),

Gene: Guntur_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Guntur_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Hlubikazi_49 Start: 35557, Stop: 35922, Start Num: 2
Candidate Starts for Hlubikazi_49:
(1, 35527), (Start: 2 @35557 has 53 MA's), (5, 35611), (7, 35614), (8, 35635), (9, 35641), (10, 35683), (11, 35686), (12, 35749), (13, 35752), (15, 35770), (19, 35800), (20, 35812), (21, 35818), (24, 35833), (25, 35911),

Gene: Hunnie_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Hunnie_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Inspire2_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Inspire2_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Jessica_22 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Jessica_22:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Kels_18 Start: 12902, Stop: 12615, Start Num: 2
Candidate Starts for Kels_18:
(Start: 2 @12902 has 53 MA's), (3, 12890), (9, 12818), (16, 12698), (22, 12656),

Gene: KylieMac_22 Start: 13760, Stop: 13488, Start Num: 2
Candidate Starts for KylieMac_22:
(Start: 2 @13760 has 53 MA's), (8, 13682), (9, 13676), (13, 13580), (14, 13565),

Gene: Laila_23 Start: 13773, Stop: 13501, Start Num: 2
Candidate Starts for Laila_23:
(Start: 2 @13773 has 53 MA's), (8, 13695), (9, 13689), (13, 13593), (14, 13578),

Gene: LilMoolah_51 Start: 36806, Stop: 37171, Start Num: 2
Candidate Starts for LilMoolah_51:
(1, 36776), (Start: 2 @36806 has 53 MA's), (5, 36860), (7, 36863), (8, 36884), (9, 36890), (10, 36932), (11, 36935), (12, 36998), (15, 37019), (19, 37049), (20, 37061), (21, 37067), (23, 37070), (24, 37082), (25, 37160),

Gene: Link_21 Start: 13741, Stop: 13469, Start Num: 2
Candidate Starts for Link_21:
(Start: 2 @13741 has 53 MA's), (9, 13657), (13, 13561), (14, 13546), (17, 13531),

Gene: Lore_21 Start: 13773, Stop: 13501, Start Num: 2
Candidate Starts for Lore_21:
(Start: 2 @13773 has 53 MA's), (8, 13695), (9, 13689), (13, 13593), (14, 13578),

Gene: LouisXIV_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for LouisXIV_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Maggie_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Maggie_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Mandlovu_49 Start: 35499, Stop: 35864, Start Num: 2
Candidate Starts for Mandlovu_49:
(1, 35469), (Start: 2 @35499 has 53 MA's), (5, 35553), (7, 35556), (8, 35577), (9, 35583), (10, 35625), (11, 35628), (12, 35691), (13, 35694), (15, 35712), (19, 35742), (20, 35754), (21, 35760), (24, 35775), (25, 35853),

Gene: Mariposa_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Mariposa_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Massimo_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Massimo_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: MilanaBonita_43 Start: 32876, Stop: 33241, Start Num: 2
Candidate Starts for MilanaBonita_43:
(1, 32846), (Start: 2 @32876 has 53 MA's), (5, 32930), (7, 32933), (8, 32954), (9, 32960), (10, 33002), (11, 33005), (12, 33068), (15, 33089), (19, 33119), (20, 33131), (21, 33137), (23, 33140), (24, 33152), (25, 33230),

Gene: Moloch_21 Start: 13850, Stop: 13578, Start Num: 2
Candidate Starts for Moloch_21:
(Start: 2 @13850 has 53 MA's), (9, 13766), (13, 13670), (14, 13655),

Gene: Muttlie_21 Start: 13744, Stop: 13472, Start Num: 2
Candidate Starts for Muttlie_21:
(Start: 2 @13744 has 53 MA's), (9, 13660), (13, 13564), (14, 13549),

Gene: Nivrat_49 Start: 36679, Stop: 37044, Start Num: 2
Candidate Starts for Nivrat_49:
(1, 36649), (Start: 2 @36679 has 53 MA's), (5, 36733), (7, 36736), (8, 36757), (9, 36763), (10, 36805), (11, 36808), (12, 36871), (15, 36892), (19, 36922), (20, 36934), (21, 36940), (23, 36943), (24, 36955), (25, 37033),

Gene: Prospero_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Prospero_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Ronnie_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for Ronnie_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Sandman_27 Start: 13850, Stop: 13578, Start Num: 2
Candidate Starts for Sandman_27:
(Start: 2 @13850 has 53 MA's), (9, 13766), (13, 13670), (14, 13655),

Gene: Saphira_22 Start: 13775, Stop: 13503, Start Num: 2
Candidate Starts for Saphira_22:
(Start: 2 @13775 has 53 MA's), (8, 13697), (9, 13691), (13, 13595), (14, 13580), (17, 13565),

Gene: SerialPhiller_18 Start: 12965, Stop: 12678, Start Num: 2
Candidate Starts for SerialPhiller_18:

(Start: 2 @12965 has 53 MA's), (3, 12953), (4, 12926), (6, 12908), (9, 12881), (13, 12785), (16, 12761), (22, 12719),

Gene: Seume_21 Start: 13539, Stop: 13267, Start Num: 2
Candidate Starts for Seume_21:
(Start: 2 @13539 has 53 MA's), (9, 13455), (13, 13359), (14, 13344), (21, 13293),

Gene: Sourignavong_22 Start: 13845, Stop: 13573, Start Num: 2
Candidate Starts for Sourignavong_22:
(Start: 2 @13845 has 53 MA's), (9, 13761), (14, 13650),

Gene: StewieGriff_21 Start: 13773, Stop: 13501, Start Num: 2
Candidate Starts for StewieGriff_21:
(Start: 2 @13773 has 53 MA's), (8, 13695), (9, 13689), (13, 13593), (14, 13578),

Gene: Stratus_21 Start: 13850, Stop: 13578, Start Num: 2
Candidate Starts for Stratus_21:
(Start: 2 @13850 has 53 MA's), (9, 13766), (13, 13670), (14, 13655),

Gene: StrawberryLem_17 Start: 12890, Stop: 12603, Start Num: 2
Candidate Starts for StrawberryLem_17:
(Start: 2 @12890 has 53 MA's), (3, 12878), (4, 12851), (6, 12833), (9, 12806), (13, 12710), (16, 12686), (22, 12644),

Gene: Strokeseat_49 Start: 35556, Stop: 35921, Start Num: 2
Candidate Starts for Strokeseat_49:
(1, 35526), (Start: 2 @35556 has 53 MA's), (5, 35610), (7, 35613), (8, 35634), (9, 35640), (10, 35682), (11, 35685), (12, 35748), (13, 35751), (15, 35769), (19, 35799), (20, 35811), (21, 35817), (24, 35832), (25, 35910),

Gene: SwagPigglett_58 Start: 39625, Stop: 39990, Start Num: 2
Candidate Starts for SwagPigglett_58:
(1, 39595), (Start: 2 @39625 has 53 MA's), (5, 39679), (7, 39682), (8, 39703), (9, 39709), (10, 39751), (11, 39754), (12, 39817), (15, 39838), (19, 39868), (20, 39880), (21, 39886), (23, 39889), (24, 39901), (25, 39979),

Gene: Swenson_21 Start: 13897, Stop: 13625, Start Num: 2
Candidate Starts for Swenson_21:
(Start: 2 @13897 has 53 MA's), (8, 13819), (9, 13813), (13, 13717), (14, 13702), (17, 13687),

Gene: Taj14_21 Start: 13772, Stop: 13500, Start Num: 2
Candidate Starts for Taj14_21:
(Start: 2 @13772 has 53 MA's), (8, 13694), (9, 13688), (13, 13592), (14, 13577), (17, 13562),

Gene: TinoCrisci_21 Start: 13776, Stop: 13504, Start Num: 2
Candidate Starts for TinoCrisci_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Toulouse_20 Start: 13539, Stop: 13267, Start Num: 2
Candidate Starts for Toulouse_20:
(Start: 2 @13539 has 53 MA's), (9, 13455), (13, 13359), (14, 13344), (21, 13293),

Gene: TymAbreu_21 Start: 13776, Stop: 13504, Start Num: 2

Candidate Starts for TymAbreu_21:
(Start: 2 @13776 has 53 MA's), (9, 13692), (13, 13596), (14, 13581),

Gene: Ximeno_17 Start: 12977, Stop: 12690, Start Num: 2
Candidate Starts for Ximeno_17:
(Start: 2 @12977 has 53 MA's), (3, 12965), (9, 12893), (16, 12773), (22, 12731),

Gene: Yank_21 Start: 13744, Stop: 13472, Start Num: 2
Candidate Starts for Yank_21:
(Start: 2 @13744 has 53 MA's), (9, 13660), (13, 13564), (14, 13549), (17, 13534),