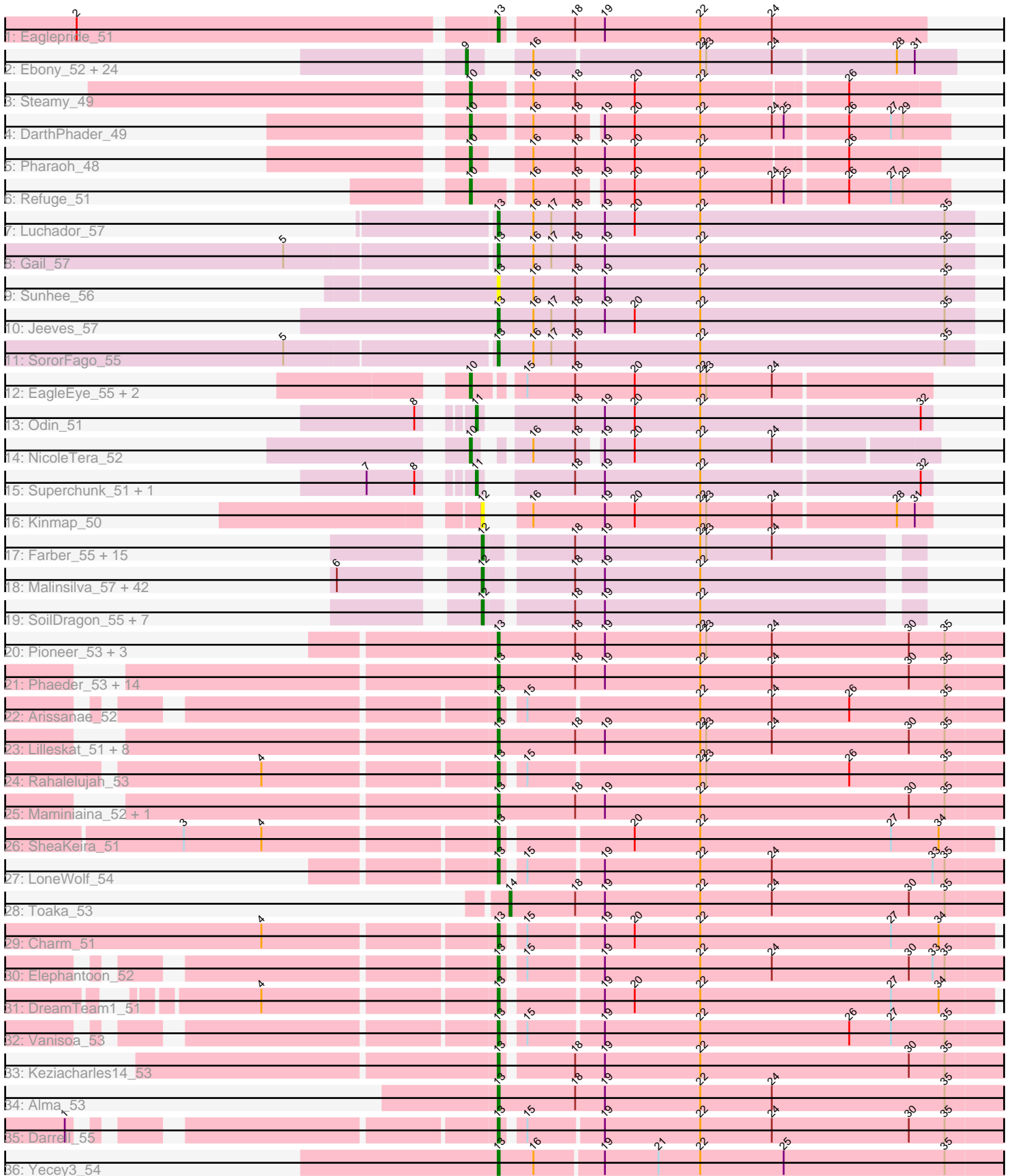


Pham 202735



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 202735 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202735 has 153 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Eaglepride_51
- Track 2 : Ebony_52, Bud_52, Flaverint_53, Mulciber_52, Gilberta_53, Snape_52, Fibonacci_52, Petersenfast_51, Mabel_52, Orange_52, Bowtie_53, Hutc2_52, MaCh_53, Insomnia_53, Munch_53, Jabith_53, Timothy_52, TinyTimmy_52, Aneem_53, Joselito_53, Lucivia_53, Salz_51, Bachome_54, Et2Brutus_51, Sham4_52
- Track 3 : Steamy_49
- Track 4 : DarthPhader_49
- Track 5 : Pharaoh_48
- Track 6 : Refuge_51
- Track 7 : Luchador_57
- Track 8 : Gail_57
- Track 9 : Sunhee_56
- Track 10 : Jeeves_57
- Track 11 : SororFago_55
- Track 12 : EagleEye_55, PainterBoy_54, Lucyedi_54
- Track 13 : Odin_51
- Track 14 : NicoleTera_52
- Track 15 : Superchunk_51, Caraxes_53
- Track 16 : Kinmap_50
- Track 17 : Farber_55, Phoxy_55, Spike509_55, AgronaGT15_54, TinyPebbles_54, Methuselah_51, KADY_55, HashRod_56, BuzzBuzz_53, Bxz2_51, Soshari_57, Rummer_54, LarryKay_55, Misomonster_56, Louie6_54, Daishi_54
- Track 18 : Malinsilva_57, Fernando_55, Hercules11_55, Aglet_56, P28Green_56, Phoebe_56, Grum1_55, Lilith_56, Sabia_55, AugsMagnumOpus_58, Dieselweasel_56, Wooldri_57, Microwolf_55, Vix_55, SoYo_55, Watson_55, Taurus_56, LBerry_56, DaHudson_55, Snickers_55, StepMih_55, Grub_55, Grif_55, MuchMore_58, BreSam8_55, JHC117_55, Penny1_56, Marie_55, GtownJaz_55, MoneyMay_55, Beauxregard13_55, Colbster_55, Sabinator_54, Stagni_55, LugYA_58, EpicPhail_56, JenCasNa_56, Mainiac_55, MarQuardt_55, PGHhamlin_57, PotatoSplit_57, Cullens_55, Pembroke_55
- Track 19 : SoilDragon_55, GingkoMaracino_55, Jobu08_54, Zetzy_54, MadMarie_55, Tiffany_55, Anubis_58, Ollie_55
- Track 20 : Pioneer_53, ExplosioNervosa_53, Beemo_53, Phonnegut_53
- Track 21 : Phaeder_53, Spouty_53, Priya_53, Onglai_51, Eidsmoe_53, EmyBug_52, PackMan_52, Myxus_53, Aliter_53, Qobbit_53, HortumSL17_53, Conquerage_53, Fayely_53, Catalina_54, Tubs_53

- Track 22 : Arissanae_52
- Track 23 : Lilleskat_51, Hanray_51, RyeScarlet_54, EdogawaKiddo_51, Holecx_52, Ugenie5_50, Scherzo_53, Sachima_50, Jiawan_51
- Track 24 : Rahalelujah_53
- Track 25 : Maminiaina_52, BogosyJay_52
- Track 26 : SheaKeira_51
- Track 27 : LoneWolf_54
- Track 28 : Toaka_53
- Track 29 : Charm_51
- Track 30 : Elephantoon_52
- Track 31 : DreamTeam1_51
- Track 32 : Vanisoa_53
- Track 33 : Keziacharles14_53
- Track 34 : Alma_53
- Track 35 : Darrell_55
- Track 36 : Yecey3_54

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 65 of the 139 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aglet_56, AgronaGT15_54, Anubis_58, AugsMagnumOpus_58, Beauxregard13_55, BreSam8_55, BuzzBuzz_53, Bxz2_51, Colbster_55, Cullens_55, DaHudson_55, Daishi_54, Dieselweasel_56, EpicPhail_56, Farber_55, Fernando_55, GingkoMaracino_55, Grif_55, Grub_55, Grum1_55, GtownJaz_55, HashRod_56, Hercules11_55, JHC117_55, JenCasNa_56, Jobu08_54, KADY_55, Kinmap_50, LBerry_56, LarryKay_55, Lilith_56, Louie6_54, LugYA_58, MadMarie_55, Mainiac_55, Malinsilva_57, MarQuardt_55, Marie_55, Methuselah_51, Microwolf_55, Misomonster_56, MoneyMay_55, MuchMore_58, Ollie_55, P28Green_56, PGHhamlin_57, Pembroke_55, Penny1_56, Phoebe_56, Phoxy_55, PotatoSplit_57, Rummer_54, Sabia_55, Sabinator_54, Snickers_55, SoYo_55, SoilDragon_55, Soshari_57, Spike509_55, Stagni_55, StepMih_55, Taurus_56, Tiffany_55, TinyPebbles_54, Vix_55, Watson_55, Wooldri_57, Zetzy_54,

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

-

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

- Aliter_53, Alma_53, Aneem_53, Arissanae_52, Bachome_54, Beemo_53, BogosyJay_52, Bowtie_53, Bud_52, Caraxes_53, Catalina_54, Charm_51, Conquerage_53, Darrell_55, DarthPhader_49, DreamTeam1_51, EagleEye_55, Eaglepride_51, Ebony_52, EdogawaKiddo_51, Eidsmoe_53, Elephantoon_52, EmyBug_52, Et2Brutus_51, ExplosioNervosa_53, Fayely_53, Fibonacci_52, Flaverint_53, Gail_57, Gilberta_53, Hanray_51, Holecx_52, HortumSL17_53, Hutc2_52, Insomnia_53, Jabith_53, Jeeves_57, Jiawan_51, Joselito_53, Keziacharles14_53, Lilleskat_51, LoneWolf_54, Luchador_57, Lucivia_53, Lucyedi_54, MaCh_53, Mabel_52, Maminiaina_52, Mulciber_52, Munch_53, Myxus_53, NicoleTera_52, Odin_51, Onglai_51, Orange_52, PackMan_52,

PainterBoy_54, Petersenfast_51, Phaeder_53, Pharaoh_48, Phonnegut_53, Pioneer_53, Priya_53, Qobbit_53, Rahalelujah_53, Refuge_51, RyeScarlet_54, Sachima_50, Salz_51, Scherzo_53, Sham4_52, SheaKeira_51, Snape_52, SororFago_55, Spouty_53, Steamy_49, Sunhee_56, Superchunk_51, Timothy_52, TinyTimmy_52, Toaka_53, Tubs_53, Ugenie5_50, Vanisoa_53, Yecey3_54,

Summary by start number:

Start 9:

- Found in 25 of 153 (16.3%) of genes in pham
- Manual Annotations of this start: 24 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aneem_53 (A11), Bachome_54 (A11), Bowtie_53 (A11), Bud_52 (A11), Ebony_52 (A11), Et2Brutus_51 (A11), Fibonacci_52 (A11), Flaverint_53 (A11), Gilberta_53 (A11), Hutc2_52 (A11), Insomnia_53 (A11), Jabith_53 (A11), Joselito_53 (A11), Lucivia_53 (A11), MaCh_53 (A11), Mabel_52 (A11), Mulciber_52 (A11), Munch_53 (A11), Orange_52 (A11), Petersenfast_51 (A11), Salz_51 (A11), Sham4_52 (A11), Snape_52 (A11), Timothy_52 (A11), TinyTimmy_52 (A11),

Start 10:

- Found in 8 of 153 (5.2%) of genes in pham
- Manual Annotations of this start: 8 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DARTHPhader_49 (A12), EagleEye_55 (A16), Lucyedi_54 (A16), NicoleTera_52 (A2), PainterBoy_54 (A16), Pharaoh_48 (A12), Refuge_51 (A12), Steamy_49 (A12),

Start 11:

- Found in 3 of 153 (2.0%) of genes in pham
- Manual Annotations of this start: 2 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caraxes_53 (A2), Odin_51 (A2), Superchunk_51 (A2),

Start 12:

- Found in 68 of 153 (44.4%) of genes in pham
- Manual Annotations of this start: 65 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aglet_56 (A3), AgronaGT15_54 (A3), Anubis_58 (A3), AugsMagnumOpus_58 (A3), Beauxregard13_55 (A3), BreSam8_55 (A3), BuzzBuzz_53 (A3), Bxz2_51 (A3), Colbster_55 (A3), Cullens_55 (A3), DaHudson_55 (A3), Daishi_54 (A3), Dieselweasel_56 (A3), EpicPhail_56 (A3), Farber_55 (A3), Fernando_55 (A3), GingkoMaracino_55 (A3), Grif_55 (A3), Grub_55 (A3), Grum1_55 (A3), GtownJaz_55 (A3), HashRod_56 (A3), Hercules11_55 (A3), JHC117_55 (A3), JenCasNa_56 (A3), Jobu08_54 (A3), KADY_55 (A3), Kinmap_50 (A21), LBerry_56 (A3), LarryKay_55 (A3), Lilith_56 (A3), Louie6_54 (A3), LugYA_58 (A3), MadMarie_55 (A3), Mainiac_55 (A3), Malinsilva_57 (A3), MarQuardt_55 (A3), Marie_55 (A3), Methuselah_51 (A3), Microwolf_55 (A3), Misomonster_56 (A3), MoneyMay_55 (A3), MuchMore_58 (A3), Ollie_55 (A3), P28Green_56 (A3), PGHhamlin_57 (A3), Pembroke_55 (A3), Penny1_56 (A3), Phoebe_56 (A3), Phoxy_55 (A3), PotatoSplit_57 (A3), Rummer_54 (A3), Sabia_55 (A3), Sabinator_54 (A3), Snickers_55 (A3), SoYo_55 (A3), SoilDragon_55 (A3), Soshari_57 (A3),

Spike509_55 (A3), Stagni_55 (A3), StepMih_55 (A3), Taurus_56 (A3), Tiffany_55 (A3), TinyPebbles_54 (A3), Vix_55 (A3), Watson_55 (A3), Wooldri_57 (A3), Zetzy_54 (A3),

Start 13:

- Found in 48 of 153 (31.4%) of genes in pham
- Manual Annotations of this start: 39 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aliter_53 (A9), Alma_53 (A9), Arissanae_52 (A9), Beemo_53 (A9), BogosyJay_52 (A9), Catalina_54 (A9), Charm_51 (A9), Conquerage_53 (A9), Darrell_55 (A9), DreamTeam1_51 (A9), Eaglepride_51 (A10), EdogawaKiddo_51 (A9), Eidsmoe_53 (A9), Elephantoan_52 (A9), EmyBug_52 (A9), ExplosioNervosa_53 (A9), Fayely_53 (A9), Gail_57 (A14), Hanray_51 (A9), Horex_52 (A9), HortumSL17_53 (A9), Jeeves_57 (A14), Jiawan_51 (A9), Keziacharles14_53 (A9), Lilleskat_51 (A9), LoneWolf_54 (A9), Luchador_57 (A14), Maminiaina_52 (A9), Myxus_53 (A9), Onglai_51 (A9), PackMan_52 (A9), Phaeder_53 (A9), Phonnegut_53 (A9), Pioneer_53 (A9), Priya_53 (A9), Qobbit_53 (A9), Rahalelujah_53 (A9), RyeScarlet_54 (A9), Sachima_50 (A9), Scherzo_53 (A9), SheaKeira_51 (A9), SororFago_55 (A14), Spouty_53 (A9), Sunhee_56 (A14), Tubs_53 (A9), Ugenie5_50 (A9), Vanisoa_53 (A9), Yecey3_54 (A9),

Start 14:

- Found in 1 of 153 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toaka_53 (A9),

Summary by clusters:

There are 9 clusters represented in this pham: A21, A16, A11, A10, A14, A12, A3, A2, A9,

Info for manual annotations of cluster A10:

- Start number 13 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A11:

- Start number 9 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 10 was manually annotated 4 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 13 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A16:

- Start number 10 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A2:

- Start number 10 was manually annotated 1 time for cluster A2.
- Start number 11 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 12 was manually annotated 65 times for cluster A3.

Info for manual annotations of cluster A9:

- Start number 13 was manually annotated 34 times for cluster A9.
- Start number 14 was manually annotated 1 time for cluster A9.

Gene Information:

Gene: Aglet_56 Start: 36110, Stop: 35904, Start Num: 12

Candidate Starts for Aglet_56:

(6, 36170), (Start: 12 @36110 has 65 MA's), (18, 36071), (19, 36056), (22, 36008),

Gene: AgronaGT15_54 Start: 35958, Stop: 35752, Start Num: 12

Candidate Starts for AgronaGT15_54:

(Start: 12 @35958 has 65 MA's), (18, 35919), (19, 35904), (22, 35856), (23, 35853), (24, 35820),

Gene: Aliter_53 Start: 36036, Stop: 35773, Start Num: 13

Candidate Starts for Aliter_53:

(Start: 13 @36036 has 39 MA's), (18, 35997), (19, 35982), (22, 35934), (24, 35898), (30, 35829), (35, 35811),

Gene: Alma_53 Start: 36216, Stop: 35953, Start Num: 13

Candidate Starts for Alma_53:

(Start: 13 @36216 has 39 MA's), (18, 36177), (19, 36162), (22, 36114), (24, 36078), (35, 35991),

Gene: Aneem_53 Start: 35524, Stop: 35300, Start Num: 9

Candidate Starts for Aneem_53:

(Start: 9 @35524 has 24 MA's), (16, 35506), (22, 35425), (23, 35422), (24, 35389), (28, 35329), (31, 35320),

Gene: Anubis_58 Start: 35996, Stop: 35790, Start Num: 12

Candidate Starts for Anubis_58:

(Start: 12 @35996 has 65 MA's), (18, 35957), (19, 35942), (22, 35894),

Gene: Arissanae_52 Start: 36731, Stop: 36477, Start Num: 13

Candidate Starts for Arissanae_52:

(Start: 13 @36731 has 39 MA's), (15, 36722), (22, 36638), (24, 36602), (26, 36563), (35, 36515),

Gene: AugsMagnumOpus_58 Start: 36101, Stop: 35895, Start Num: 12

Candidate Starts for AugsMagnumOpus_58:

(6, 36161), (Start: 12 @36101 has 65 MA's), (18, 36062), (19, 36047), (22, 35999),

Gene: Bachome_54 Start: 35504, Stop: 35280, Start Num: 9

Candidate Starts for Bachome_54:

(Start: 9 @35504 has 24 MA's), (16, 35486), (22, 35405), (23, 35402), (24, 35369), (28, 35309), (31, 35300),

Gene: Beauxregard13_55 Start: 36113, Stop: 35907, Start Num: 12

Candidate Starts for Beauxregard13_55:

(6, 36173), (Start: 12 @36113 has 65 MA's), (18, 36074), (19, 36059), (22, 36011),

Gene: Beemo_53 Start: 36206, Stop: 35943, Start Num: 13
Candidate Starts for Beemo_53:
(Start: 13 @36206 has 39 MA's), (18, 36167), (19, 36152), (22, 36104), (23, 36101), (24, 36068), (30, 35999), (35, 35981),

Gene: BogosyJay_52 Start: 35921, Stop: 35658, Start Num: 13
Candidate Starts for BogosyJay_52:
(Start: 13 @35921 has 39 MA's), (18, 35882), (19, 35867), (22, 35819), (30, 35714), (35, 35696),

Gene: Bowtie_53 Start: 35531, Stop: 35307, Start Num: 9
Candidate Starts for Bowtie_53:
(Start: 9 @35531 has 24 MA's), (16, 35513), (22, 35432), (23, 35429), (24, 35396), (28, 35336), (31, 35327),

Gene: BreSam8_55 Start: 36103, Stop: 35897, Start Num: 12
Candidate Starts for BreSam8_55:
(6, 36163), (Start: 12 @36103 has 65 MA's), (18, 36064), (19, 36049), (22, 36001),

Gene: Bud_52 Start: 35078, Stop: 34854, Start Num: 9
Candidate Starts for Bud_52:
(Start: 9 @35078 has 24 MA's), (16, 35060), (22, 34979), (23, 34976), (24, 34943), (28, 34883), (31, 34874),

Gene: BuzzBuzz_53 Start: 36137, Stop: 35931, Start Num: 12
Candidate Starts for BuzzBuzz_53:
(Start: 12 @36137 has 65 MA's), (18, 36098), (19, 36083), (22, 36035), (23, 36032), (24, 35999),

Gene: Bxz2_51 Start: 36144, Stop: 35938, Start Num: 12
Candidate Starts for Bxz2_51:
(Start: 12 @36144 has 65 MA's), (18, 36105), (19, 36090), (22, 36042), (23, 36039), (24, 36006),

Gene: Caraxes_53 Start: 34594, Stop: 34385, Start Num: 11
Candidate Starts for Caraxes_53:
(7, 34633), (8, 34609), (Start: 11 @34594 has 2 MA's), (18, 34561), (19, 34546), (22, 34498), (32, 34390),

Gene: Catalina_54 Start: 36109, Stop: 35846, Start Num: 13
Candidate Starts for Catalina_54:
(Start: 13 @36109 has 39 MA's), (18, 36070), (19, 36055), (22, 36007), (24, 35971), (30, 35902), (35, 35884),

Gene: Charm_51 Start: 35781, Stop: 35542, Start Num: 13
Candidate Starts for Charm_51:
(4, 35892), (Start: 13 @35781 has 39 MA's), (15, 35772), (19, 35736), (20, 35721), (22, 35688), (27, 35592), (34, 35568),

Gene: Colbster_55 Start: 36113, Stop: 35907, Start Num: 12
Candidate Starts for Colbster_55:
(6, 36173), (Start: 12 @36113 has 65 MA's), (18, 36074), (19, 36059), (22, 36011),

Gene: Conquerage_53 Start: 36180, Stop: 35917, Start Num: 13
Candidate Starts for Conquerage_53:

(Start: 13 @36180 has 39 MA's), (18, 36141), (19, 36126), (22, 36078), (24, 36042), (30, 35973), (35, 35955),

Gene: Cullens_55 Start: 36109, Stop: 35903, Start Num: 12

Candidate Starts for Cullens_55:

(6, 36169), (Start: 12 @36109 has 65 MA's), (18, 36070), (19, 36055), (22, 36007),

Gene: DaHudson_55 Start: 36102, Stop: 35896, Start Num: 12

Candidate Starts for DaHudson_55:

(6, 36162), (Start: 12 @36102 has 65 MA's), (18, 36063), (19, 36048), (22, 36000),

Gene: Daishi_54 Start: 34978, Stop: 34772, Start Num: 12

Candidate Starts for Daishi_54:

(Start: 12 @34978 has 65 MA's), (18, 34939), (19, 34924), (22, 34876), (23, 34873), (24, 34840),

Gene: Darrell_55 Start: 36800, Stop: 36546, Start Num: 13

Candidate Starts for Darrell_55:

(1, 36980), (Start: 13 @36800 has 39 MA's), (15, 36791), (19, 36755), (22, 36707), (24, 36671), (30, 36602), (35, 36584),

Gene: DARTHPhader_49 Start: 36772, Stop: 36545, Start Num: 10

Candidate Starts for DARTHPhader_49:

(Start: 10 @36772 has 8 MA's), (16, 36745), (18, 36724), (19, 36715), (20, 36700), (22, 36667), (24, 36631), (25, 36625), (26, 36595), (27, 36574), (29, 36568),

Gene: Dieselweasel_56 Start: 36112, Stop: 35906, Start Num: 12

Candidate Starts for Dieselweasel_56:

(6, 36172), (Start: 12 @36112 has 65 MA's), (18, 36073), (19, 36058), (22, 36010),

Gene: DreamTeam1_51 Start: 35637, Stop: 35398, Start Num: 13

Candidate Starts for DreamTeam1_51:

(4, 35748), (Start: 13 @35637 has 39 MA's), (19, 35592), (20, 35577), (22, 35544), (27, 35448), (34, 35424),

Gene: EagleEye_55 Start: 35749, Stop: 35528, Start Num: 10

Candidate Starts for EagleEye_55:

(Start: 10 @35749 has 8 MA's), (15, 35728), (18, 35704), (20, 35674), (22, 35641), (23, 35638), (24, 35605),

Gene: Eaglepride_51 Start: 35449, Stop: 35240, Start Num: 13

Candidate Starts for Eaglepride_51:

(2, 35653), (Start: 13 @35449 has 39 MA's), (18, 35416), (19, 35401), (22, 35353), (24, 35317),

Gene: Ebony_52 Start: 35095, Stop: 34871, Start Num: 9

Candidate Starts for Ebony_52:

(Start: 9 @35095 has 24 MA's), (16, 35077), (22, 34996), (23, 34993), (24, 34960), (28, 34900), (31, 34891),

Gene: EdogawaKiddo_51 Start: 36157, Stop: 35894, Start Num: 13

Candidate Starts for EdogawaKiddo_51:

(Start: 13 @36157 has 39 MA's), (18, 36118), (19, 36103), (22, 36055), (23, 36052), (24, 36019), (30, 35950), (35, 35932),

Gene: Eidsmoe_53 Start: 36172, Stop: 35909, Start Num: 13

Candidate Starts for Eidsmoe_53:

(Start: 13 @36172 has 39 MA's), (18, 36133), (19, 36118), (22, 36070), (24, 36034), (30, 35965), (35, 35947),

Gene: Elephantoon_52 Start: 35545, Stop: 35291, Start Num: 13

Candidate Starts for Elephantoon_52:

(Start: 13 @35545 has 39 MA's), (15, 35536), (19, 35500), (22, 35452), (24, 35416), (30, 35347), (33, 35335), (35, 35329),

Gene: EmyBug_52 Start: 36174, Stop: 35911, Start Num: 13

Candidate Starts for EmyBug_52:

(Start: 13 @36174 has 39 MA's), (18, 36135), (19, 36120), (22, 36072), (24, 36036), (30, 35967), (35, 35949),

Gene: EpicPhail_56 Start: 36113, Stop: 35907, Start Num: 12

Candidate Starts for EpicPhail_56:

(6, 36173), (Start: 12 @36113 has 65 MA's), (18, 36074), (19, 36059), (22, 36011),

Gene: Et2Brutus_51 Start: 35058, Stop: 34834, Start Num: 9

Candidate Starts for Et2Brutus_51:

(Start: 9 @35058 has 24 MA's), (16, 35040), (22, 34959), (23, 34956), (24, 34923), (28, 34863), (31, 34854),

Gene: ExplosioNervosa_53 Start: 36240, Stop: 35977, Start Num: 13

Candidate Starts for ExplosioNervosa_53:

(Start: 13 @36240 has 39 MA's), (18, 36201), (19, 36186), (22, 36138), (23, 36135), (24, 36102), (30, 36033), (35, 36015),

Gene: Farber_55 Start: 36099, Stop: 35893, Start Num: 12

Candidate Starts for Farber_55:

(Start: 12 @36099 has 65 MA's), (18, 36060), (19, 36045), (22, 35997), (23, 35994), (24, 35961),

Gene: Fayely_53 Start: 36141, Stop: 35878, Start Num: 13

Candidate Starts for Fayely_53:

(Start: 13 @36141 has 39 MA's), (18, 36102), (19, 36087), (22, 36039), (24, 36003), (30, 35934), (35, 35916),

Gene: Fernando_55 Start: 36109, Stop: 35903, Start Num: 12

Candidate Starts for Fernando_55:

(6, 36169), (Start: 12 @36109 has 65 MA's), (18, 36070), (19, 36055), (22, 36007),

Gene: Fibonacci_52 Start: 35064, Stop: 34840, Start Num: 9

Candidate Starts for Fibonacci_52:

(Start: 9 @35064 has 24 MA's), (16, 35046), (22, 34965), (23, 34962), (24, 34929), (28, 34869), (31, 34860),

Gene: Flaverint_53 Start: 35522, Stop: 35298, Start Num: 9

Candidate Starts for Flaverint_53:

(Start: 9 @35522 has 24 MA's), (16, 35504), (22, 35423), (23, 35420), (24, 35387), (28, 35327), (31, 35318),

Gene: Gail_57 Start: 37210, Stop: 36971, Start Num: 13

Candidate Starts for Gail_57:

(5, 37312), (Start: 13 @37210 has 39 MA's), (16, 37192), (17, 37183), (18, 37171), (19, 37156), (22, 37108), (35, 36985),

Gene: Gilberta_53 Start: 35515, Stop: 35291, Start Num: 9

Candidate Starts for Gilberta_53:

(Start: 9 @35515 has 24 MA's), (16, 35497), (22, 35416), (23, 35413), (24, 35380), (28, 35320), (31, 35311),

Gene: GingkoMaracino_55 Start: 35995, Stop: 35789, Start Num: 12

Candidate Starts for GingkoMaracino_55:

(Start: 12 @35995 has 65 MA's), (18, 35956), (19, 35941), (22, 35893),

Gene: Grif_55 Start: 36184, Stop: 35978, Start Num: 12

Candidate Starts for Grif_55:

(6, 36244), (Start: 12 @36184 has 65 MA's), (18, 36145), (19, 36130), (22, 36082),

Gene: Grub_55 Start: 36101, Stop: 35895, Start Num: 12

Candidate Starts for Grub_55:

(6, 36161), (Start: 12 @36101 has 65 MA's), (18, 36062), (19, 36047), (22, 35999),

Gene: Grum1_55 Start: 36109, Stop: 35903, Start Num: 12

Candidate Starts for Grum1_55:

(6, 36169), (Start: 12 @36109 has 65 MA's), (18, 36070), (19, 36055), (22, 36007),

Gene: GtownJaz_55 Start: 36111, Stop: 35905, Start Num: 12

Candidate Starts for GtownJaz_55:

(6, 36171), (Start: 12 @36111 has 65 MA's), (18, 36072), (19, 36057), (22, 36009),

Gene: Hanray_51 Start: 36161, Stop: 35898, Start Num: 13

Candidate Starts for Hanray_51:

(Start: 13 @36161 has 39 MA's), (18, 36122), (19, 36107), (22, 36059), (23, 36056), (24, 36023), (30, 35954), (35, 35936),

Gene: HashRod_56 Start: 36137, Stop: 35931, Start Num: 12

Candidate Starts for HashRod_56:

(Start: 12 @36137 has 65 MA's), (18, 36098), (19, 36083), (22, 36035), (23, 36032), (24, 35999),

Gene: Hercules11_55 Start: 36118, Stop: 35912, Start Num: 12

Candidate Starts for Hercules11_55:

(6, 36178), (Start: 12 @36118 has 65 MA's), (18, 36079), (19, 36064), (22, 36016),

Gene: Horex_52 Start: 36177, Stop: 35914, Start Num: 13

Candidate Starts for Horex_52:

(Start: 13 @36177 has 39 MA's), (18, 36138), (19, 36123), (22, 36075), (23, 36072), (24, 36039), (30, 35970), (35, 35952),

Gene: HortumSL17_53 Start: 36108, Stop: 35845, Start Num: 13

Candidate Starts for HortumSL17_53:

(Start: 13 @36108 has 39 MA's), (18, 36069), (19, 36054), (22, 36006), (24, 35970), (30, 35901), (35, 35883),

Gene: Hutc2_52 Start: 35064, Stop: 34840, Start Num: 9

Candidate Starts for Hutc2_52:

(Start: 9 @35064 has 24 MA's), (16, 35046), (22, 34965), (23, 34962), (24, 34929), (28, 34869), (31, 34860),

Gene: Insomnia_53 Start: 35575, Stop: 35351, Start Num: 9

Candidate Starts for Insomnia_53:

(Start: 9 @35575 has 24 MA's), (16, 35557), (22, 35476), (23, 35473), (24, 35440), (28, 35380), (31, 35371),

Gene: JHC117_55 Start: 36108, Stop: 35902, Start Num: 12

Candidate Starts for JHC117_55:

(6, 36168), (Start: 12 @36108 has 65 MA's), (18, 36069), (19, 36054), (22, 36006),

Gene: Jabith_53 Start: 35576, Stop: 35352, Start Num: 9

Candidate Starts for Jabith_53:

(Start: 9 @35576 has 24 MA's), (16, 35558), (22, 35477), (23, 35474), (24, 35441), (28, 35381), (31, 35372),

Gene: Jeeves_57 Start: 35982, Stop: 35743, Start Num: 13

Candidate Starts for Jeeves_57:

(Start: 13 @35982 has 39 MA's), (16, 35964), (17, 35955), (18, 35943), (19, 35928), (20, 35913), (22, 35880), (35, 35757),

Gene: JenCasNa_56 Start: 36109, Stop: 35903, Start Num: 12

Candidate Starts for JenCasNa_56:

(6, 36169), (Start: 12 @36109 has 65 MA's), (18, 36070), (19, 36055), (22, 36007),

Gene: Jiawan_51 Start: 36193, Stop: 35930, Start Num: 13

Candidate Starts for Jiawan_51:

(Start: 13 @36193 has 39 MA's), (18, 36154), (19, 36139), (22, 36091), (23, 36088), (24, 36055), (30, 35986), (35, 35968),

Gene: Jobu08_54 Start: 35941, Stop: 35735, Start Num: 12

Candidate Starts for Jobu08_54:

(Start: 12 @35941 has 65 MA's), (18, 35902), (19, 35887), (22, 35839),

Gene: Joselito_53 Start: 35524, Stop: 35300, Start Num: 9

Candidate Starts for Joselito_53:

(Start: 9 @35524 has 24 MA's), (16, 35506), (22, 35425), (23, 35422), (24, 35389), (28, 35329), (31, 35320),

Gene: KADY_55 Start: 36137, Stop: 35931, Start Num: 12

Candidate Starts for KADY_55:

(Start: 12 @36137 has 65 MA's), (18, 36098), (19, 36083), (22, 36035), (23, 36032), (24, 35999),

Gene: Keziacharles14_53 Start: 37226, Stop: 36969, Start Num: 13

Candidate Starts for Keziacharles14_53:

(Start: 13 @37226 has 39 MA's), (18, 37193), (19, 37178), (22, 37130), (30, 37025), (35, 37007),

Gene: Kinmap_50 Start: 34460, Stop: 34254, Start Num: 12

Candidate Starts for Kinmap_50:

(Start: 12 @34460 has 65 MA's), (16, 34451), (19, 34415), (20, 34400), (22, 34367), (23, 34364), (24, 34331), (28, 34271), (31, 34262),

Gene: LBerry_56 Start: 36113, Stop: 35907, Start Num: 12

Candidate Starts for LBerry_56:

(6, 36173), (Start: 12 @36113 has 65 MA's), (18, 36074), (19, 36059), (22, 36011),

Gene: LarryKay_55 Start: 36139, Stop: 35933, Start Num: 12

Candidate Starts for LarryKay_55:

(Start: 12 @36139 has 65 MA's), (18, 36100), (19, 36085), (22, 36037), (23, 36034), (24, 36001),

Gene: Lilith_56 Start: 36102, Stop: 35896, Start Num: 12

Candidate Starts for Lilith_56:

(6, 36162), (Start: 12 @36102 has 65 MA's), (18, 36063), (19, 36048), (22, 36000),

Gene: Lilleskat_51 Start: 36110, Stop: 35847, Start Num: 13

Candidate Starts for Lilleskat_51:

(Start: 13 @36110 has 39 MA's), (18, 36071), (19, 36056), (22, 36008), (23, 36005), (24, 35972), (30, 35903), (35, 35885),

Gene: LoneWolf_54 Start: 36139, Stop: 35885, Start Num: 13

Candidate Starts for LoneWolf_54:

(Start: 13 @36139 has 39 MA's), (15, 36130), (19, 36094), (22, 36046), (24, 36010), (33, 35929), (35, 35923),

Gene: Louie6_54 Start: 36138, Stop: 35932, Start Num: 12

Candidate Starts for Louie6_54:

(Start: 12 @36138 has 65 MA's), (18, 36099), (19, 36084), (22, 36036), (23, 36033), (24, 36000),

Gene: Luchador_57 Start: 37767, Stop: 37528, Start Num: 13

Candidate Starts for Luchador_57:

(Start: 13 @37767 has 39 MA's), (16, 37749), (17, 37740), (18, 37728), (19, 37713), (20, 37698), (22, 37665), (35, 37542),

Gene: Lucivia_53 Start: 35573, Stop: 35349, Start Num: 9

Candidate Starts for Lucivia_53:

(Start: 9 @35573 has 24 MA's), (16, 35555), (22, 35474), (23, 35471), (24, 35438), (28, 35378), (31, 35369),

Gene: Lucyedi_54 Start: 35945, Stop: 35724, Start Num: 10

Candidate Starts for Lucyedi_54:

(Start: 10 @35945 has 8 MA's), (15, 35924), (18, 35900), (20, 35870), (22, 35837), (23, 35834), (24, 35801),

Gene: LugYA_58 Start: 36110, Stop: 35904, Start Num: 12

Candidate Starts for LugYA_58:

(6, 36170), (Start: 12 @36110 has 65 MA's), (18, 36071), (19, 36056), (22, 36008),

Gene: MaCh_53 Start: 35503, Stop: 35279, Start Num: 9

Candidate Starts for MaCh_53:

(Start: 9 @35503 has 24 MA's), (16, 35485), (22, 35404), (23, 35401), (24, 35368), (28, 35308), (31, 35299),

Gene: Mabel_52 Start: 35105, Stop: 34881, Start Num: 9

Candidate Starts for Mabel_52:

(Start: 9 @35105 has 24 MA's), (16, 35087), (22, 35006), (23, 35003), (24, 34970), (28, 34910), (31, 34901),

Gene: MadMarie_55 Start: 36111, Stop: 35905, Start Num: 12

Candidate Starts for MadMarie_55:

(Start: 12 @36111 has 65 MA's), (18, 36072), (19, 36057), (22, 36009),

Gene: Mainiac_55 Start: 36103, Stop: 35897, Start Num: 12

Candidate Starts for Mainiac_55:

(6, 36163), (Start: 12 @36103 has 65 MA's), (18, 36064), (19, 36049), (22, 36001),

Gene: Malinsilva_57 Start: 36101, Stop: 35895, Start Num: 12

Candidate Starts for Malinsilva_57:

(6, 36161), (Start: 12 @36101 has 65 MA's), (18, 36062), (19, 36047), (22, 35999),

Gene: Maminiaina_52 Start: 35903, Stop: 35640, Start Num: 13

Candidate Starts for Maminiaina_52:

(Start: 13 @35903 has 39 MA's), (18, 35864), (19, 35849), (22, 35801), (30, 35696), (35, 35678),

Gene: MarQuardt_55 Start: 36111, Stop: 35905, Start Num: 12

Candidate Starts for MarQuardt_55:

(6, 36171), (Start: 12 @36111 has 65 MA's), (18, 36072), (19, 36057), (22, 36009),

Gene: Marie_55 Start: 36109, Stop: 35903, Start Num: 12

Candidate Starts for Marie_55:

(6, 36169), (Start: 12 @36109 has 65 MA's), (18, 36070), (19, 36055), (22, 36007),

Gene: Methuselah_51 Start: 36133, Stop: 35927, Start Num: 12

Candidate Starts for Methuselah_51:

(Start: 12 @36133 has 65 MA's), (18, 36094), (19, 36079), (22, 36031), (23, 36028), (24, 35995),

Gene: Microwolf_55 Start: 36125, Stop: 35919, Start Num: 12

Candidate Starts for Microwolf_55:

(6, 36185), (Start: 12 @36125 has 65 MA's), (18, 36086), (19, 36071), (22, 36023),

Gene: Misomonster_56 Start: 36136, Stop: 35930, Start Num: 12

Candidate Starts for Misomonster_56:

(Start: 12 @36136 has 65 MA's), (18, 36097), (19, 36082), (22, 36034), (23, 36031), (24, 35998),

Gene: MoneyMay_55 Start: 36109, Stop: 35903, Start Num: 12

Candidate Starts for MoneyMay_55:

(6, 36169), (Start: 12 @36109 has 65 MA's), (18, 36070), (19, 36055), (22, 36007),

Gene: MuchMore_58 Start: 36101, Stop: 35895, Start Num: 12

Candidate Starts for MuchMore_58:

(6, 36161), (Start: 12 @36101 has 65 MA's), (18, 36062), (19, 36047), (22, 35999),

Gene: Mulciber_52 Start: 35061, Stop: 34837, Start Num: 9

Candidate Starts for Mulciber_52:

(Start: 9 @35061 has 24 MA's), (16, 35043), (22, 34962), (23, 34959), (24, 34926), (28, 34866), (31, 34857),

Gene: Munch_53 Start: 35524, Stop: 35300, Start Num: 9

Candidate Starts for Munch_53:

(Start: 9 @35524 has 24 MA's), (16, 35506), (22, 35425), (23, 35422), (24, 35389), (28, 35329), (31, 35320),

Gene: Myxus_53 Start: 36108, Stop: 35845, Start Num: 13

Candidate Starts for Myxus_53:

(Start: 13 @36108 has 39 MA's), (18, 36069), (19, 36054), (22, 36006), (24, 35970), (30, 35901), (35, 35883),

Gene: NicoleTera_52 Start: 36428, Stop: 36219, Start Num: 10

Candidate Starts for NicoleTera_52:

(Start: 10 @36428 has 8 MA's), (16, 36410), (18, 36389), (19, 36380), (20, 36365), (22, 36332), (24, 36296),

Gene: Odin_51 Start: 34966, Stop: 34757, Start Num: 11

Candidate Starts for Odin_51:

(8, 34981), (Start: 11 @34966 has 2 MA's), (18, 34933), (19, 34918), (20, 34903), (22, 34870), (32, 34762),

Gene: Ollie_55 Start: 35980, Stop: 35774, Start Num: 12

Candidate Starts for Ollie_55:

(Start: 12 @35980 has 65 MA's), (18, 35941), (19, 35926), (22, 35878),

Gene: Onglai_51 Start: 34449, Stop: 34186, Start Num: 13

Candidate Starts for Onglai_51:

(Start: 13 @34449 has 39 MA's), (18, 34410), (19, 34395), (22, 34347), (24, 34311), (30, 34242), (35, 34224),

Gene: Orange_52 Start: 35073, Stop: 34849, Start Num: 9

Candidate Starts for Orange_52:

(Start: 9 @35073 has 24 MA's), (16, 35055), (22, 34974), (23, 34971), (24, 34938), (28, 34878), (31, 34869),

Gene: P28Green_56 Start: 36112, Stop: 35906, Start Num: 12

Candidate Starts for P28Green_56:

(6, 36172), (Start: 12 @36112 has 65 MA's), (18, 36073), (19, 36058), (22, 36010),

Gene: PGHhamlin_57 Start: 36101, Stop: 35895, Start Num: 12

Candidate Starts for PGHhamlin_57:

(6, 36161), (Start: 12 @36101 has 65 MA's), (18, 36062), (19, 36047), (22, 35999),

Gene: PackMan_52 Start: 36108, Stop: 35845, Start Num: 13

Candidate Starts for PackMan_52:

(Start: 13 @36108 has 39 MA's), (18, 36069), (19, 36054), (22, 36006), (24, 35970), (30, 35901), (35, 35883),

Gene: PainterBoy_54 Start: 35882, Stop: 35661, Start Num: 10

Candidate Starts for PainterBoy_54:

(Start: 10 @35882 has 8 MA's), (15, 35861), (18, 35837), (20, 35807), (22, 35774), (23, 35771), (24, 35738),

Gene: Pembroke_55 Start: 36110, Stop: 35904, Start Num: 12

Candidate Starts for Pembroke_55:

(6, 36170), (Start: 12 @36110 has 65 MA's), (18, 36071), (19, 36056), (22, 36008),

Gene: Penny1_56 Start: 36113, Stop: 35907, Start Num: 12

Candidate Starts for Penny1_56:

(6, 36173), (Start: 12 @36113 has 65 MA's), (18, 36074), (19, 36059), (22, 36011),

Gene: Petersenfast_51 Start: 35072, Stop: 34848, Start Num: 9

Candidate Starts for Petersenfast_51:

(Start: 9 @35072 has 24 MA's), (16, 35054), (22, 34973), (23, 34970), (24, 34937), (28, 34877), (31, 34868),

Gene: Phaeder_53 Start: 36108, Stop: 35845, Start Num: 13

Candidate Starts for Phaeder_53:

(Start: 13 @36108 has 39 MA's), (18, 36069), (19, 36054), (22, 36006), (24, 35970), (30, 35901), (35, 35883),

Gene: Pharaoh_48 Start: 35902, Stop: 35687, Start Num: 10

Candidate Starts for Pharaoh_48:

(Start: 10 @35902 has 8 MA's), (16, 35884), (18, 35863), (19, 35848), (20, 35833), (22, 35800), (26, 35731),

Gene: Phoebe_56 Start: 36102, Stop: 35896, Start Num: 12

Candidate Starts for Phoebe_56:

(6, 36162), (Start: 12 @36102 has 65 MA's), (18, 36063), (19, 36048), (22, 36000),

Gene: Phonnegut_53 Start: 36205, Stop: 35942, Start Num: 13

Candidate Starts for Phonnegut_53:

(Start: 13 @36205 has 39 MA's), (18, 36166), (19, 36151), (22, 36103), (23, 36100), (24, 36067), (30, 35998), (35, 35980),

Gene: Phoxy_55 Start: 36134, Stop: 35928, Start Num: 12

Candidate Starts for Phoxy_55:

(Start: 12 @36134 has 65 MA's), (18, 36095), (19, 36080), (22, 36032), (23, 36029), (24, 35996),

Gene: Pioneer_53 Start: 36205, Stop: 35942, Start Num: 13

Candidate Starts for Pioneer_53:

(Start: 13 @36205 has 39 MA's), (18, 36166), (19, 36151), (22, 36103), (23, 36100), (24, 36067), (30, 35998), (35, 35980),

Gene: PotatoSplit_57 Start: 36113, Stop: 35907, Start Num: 12

Candidate Starts for PotatoSplit_57:

(6, 36173), (Start: 12 @36113 has 65 MA's), (18, 36074), (19, 36059), (22, 36011),

Gene: Priya_53 Start: 36175, Stop: 35912, Start Num: 13

Candidate Starts for Priya_53:

(Start: 13 @36175 has 39 MA's), (18, 36136), (19, 36121), (22, 36073), (24, 36037), (30, 35968), (35, 35950),

Gene: Qobbit_53 Start: 36137, Stop: 35874, Start Num: 13

Candidate Starts for Qobbit_53:

(Start: 13 @36137 has 39 MA's), (18, 36098), (19, 36083), (22, 36035), (24, 35999), (30, 35930), (35, 35912),

Gene: Rahalelujah_53 Start: 35677, Stop: 35423, Start Num: 13

Candidate Starts for Rahalelujah_53:

(4, 35788), (Start: 13 @35677 has 39 MA's), (15, 35668), (22, 35584), (23, 35581), (26, 35509), (35, 35461),

Gene: Refuge_51 Start: 37134, Stop: 36907, Start Num: 10

Candidate Starts for Refuge_51:

(Start: 10 @37134 has 8 MA's), (16, 37107), (18, 37086), (19, 37077), (20, 37062), (22, 37029), (24, 36993), (25, 36987), (26, 36957), (27, 36936), (29, 36930),

Gene: Rummer_54 Start: 36137, Stop: 35931, Start Num: 12

Candidate Starts for Rummer_54:

(Start: 12 @36137 has 65 MA's), (18, 36098), (19, 36083), (22, 36035), (23, 36032), (24, 35999),

Gene: RyeScarlet_54 Start: 36180, Stop: 35917, Start Num: 13

Candidate Starts for RyeScarlet_54:

(Start: 13 @36180 has 39 MA's), (18, 36141), (19, 36126), (22, 36078), (23, 36075), (24, 36042), (30, 35973), (35, 35955),

Gene: Sabia_55 Start: 36118, Stop: 35912, Start Num: 12

Candidate Starts for Sabia_55:

(6, 36178), (Start: 12 @36118 has 65 MA's), (18, 36079), (19, 36064), (22, 36016),

Gene: Sabinator_54 Start: 36108, Stop: 35902, Start Num: 12

Candidate Starts for Sabinator_54:

(6, 36168), (Start: 12 @36108 has 65 MA's), (18, 36069), (19, 36054), (22, 36006),

Gene: Sachima_50 Start: 36090, Stop: 35827, Start Num: 13

Candidate Starts for Sachima_50:

(Start: 13 @36090 has 39 MA's), (18, 36051), (19, 36036), (22, 35988), (23, 35985), (24, 35952), (30, 35883), (35, 35865),

Gene: Salz_51 Start: 35043, Stop: 34819, Start Num: 9

Candidate Starts for Salz_51:

(Start: 9 @35043 has 24 MA's), (16, 35025), (22, 34944), (23, 34941), (24, 34908), (28, 34848), (31, 34839),

Gene: Scherzo_53 Start: 36394, Stop: 36131, Start Num: 13

Candidate Starts for Scherzo_53:

(Start: 13 @36394 has 39 MA's), (18, 36355), (19, 36340), (22, 36292), (23, 36289), (24, 36256), (30, 36187), (35, 36169),

Gene: Sham4_52 Start: 35071, Stop: 34847, Start Num: 9

Candidate Starts for Sham4_52:

(Start: 9 @35071 has 24 MA's), (16, 35053), (22, 34972), (23, 34969), (24, 34936), (28, 34876), (31, 34867),

Gene: SheaKeira_51 Start: 35582, Stop: 35343, Start Num: 13

Candidate Starts for SheaKeira_51:

(3, 35732), (4, 35693), (Start: 13 @35582 has 39 MA's), (20, 35522), (22, 35489), (27, 35393), (34, 35369),

Gene: Snape_52 Start: 35063, Stop: 34839, Start Num: 9

Candidate Starts for Snape_52:

(Start: 9 @35063 has 24 MA's), (16, 35045), (22, 34964), (23, 34961), (24, 34928), (28, 34868), (31, 34859),

Gene: Snickers_55 Start: 36083, Stop: 35877, Start Num: 12

Candidate Starts for Snickers_55:

(6, 36143), (Start: 12 @36083 has 65 MA's), (18, 36044), (19, 36029), (22, 35981),

Gene: SoYo_55 Start: 36021, Stop: 35815, Start Num: 12

Candidate Starts for SoYo_55:

(6, 36081), (Start: 12 @36021 has 65 MA's), (18, 35982), (19, 35967), (22, 35919),

Gene: SoilDragon_55 Start: 35557, Stop: 35351, Start Num: 12

Candidate Starts for SoilDragon_55:

(Start: 12 @35557 has 65 MA's), (18, 35518), (19, 35503), (22, 35455),

Gene: SororFago_55 Start: 37097, Stop: 36858, Start Num: 13

Candidate Starts for SororFago_55:

(5, 37199), (Start: 13 @37097 has 39 MA's), (16, 37079), (17, 37070), (18, 37058), (22, 36995), (35, 36872),

Gene: Soshari_57 Start: 36133, Stop: 35927, Start Num: 12

Candidate Starts for Soshari_57:

(Start: 12 @36133 has 65 MA's), (18, 36094), (19, 36079), (22, 36031), (23, 36028), (24, 35995),

Gene: Spike509_55 Start: 36134, Stop: 35928, Start Num: 12

Candidate Starts for Spike509_55:

(Start: 12 @36134 has 65 MA's), (18, 36095), (19, 36080), (22, 36032), (23, 36029), (24, 35996),

Gene: Spouty_53 Start: 36174, Stop: 35911, Start Num: 13

Candidate Starts for Spouty_53:

(Start: 13 @36174 has 39 MA's), (18, 36135), (19, 36120), (22, 36072), (24, 36036), (30, 35967), (35, 35949),

Gene: Stagni_55 Start: 36112, Stop: 35906, Start Num: 12

Candidate Starts for Stagni_55:

(6, 36172), (Start: 12 @36112 has 65 MA's), (18, 36073), (19, 36058), (22, 36010),

Gene: Steamy_49 Start: 35646, Stop: 35422, Start Num: 10

Candidate Starts for Steamy_49:

(Start: 10 @35646 has 8 MA's), (16, 35619), (18, 35598), (20, 35568), (22, 35535), (26, 35466),

Gene: StepMih_55 Start: 36103, Stop: 35897, Start Num: 12

Candidate Starts for StepMih_55:

(6, 36163), (Start: 12 @36103 has 65 MA's), (18, 36064), (19, 36049), (22, 36001),

Gene: Sunhee_56 Start: 35518, Stop: 35279, Start Num: 13

Candidate Starts for Sunhee_56:

(Start: 13 @35518 has 39 MA's), (16, 35500), (18, 35479), (19, 35464), (22, 35416), (35, 35293),

Gene: Superchunk_51 Start: 34594, Stop: 34385, Start Num: 11

Candidate Starts for Superchunk_51:

(7, 34633), (8, 34609), (Start: 11 @34594 has 2 MA's), (18, 34561), (19, 34546), (22, 34498), (32, 34390),

Gene: Taurus_56 Start: 36109, Stop: 35903, Start Num: 12

Candidate Starts for Taurus_56:

(6, 36169), (Start: 12 @36109 has 65 MA's), (18, 36070), (19, 36055), (22, 36007),

Gene: Tiffany_55 Start: 35995, Stop: 35789, Start Num: 12

Candidate Starts for Tiffany_55:

(Start: 12 @35995 has 65 MA's), (18, 35956), (19, 35941), (22, 35893),

Gene: Timothy_52 Start: 35040, Stop: 34816, Start Num: 9

Candidate Starts for Timothy_52:

(Start: 9 @35040 has 24 MA's), (16, 35022), (22, 34941), (23, 34938), (24, 34905), (28, 34845), (31, 34836),

Gene: TinyPebbles_54 Start: 36139, Stop: 35933, Start Num: 12

Candidate Starts for TinyPebbles_54:

(Start: 12 @36139 has 65 MA's), (18, 36100), (19, 36085), (22, 36037), (23, 36034), (24, 36001),

Gene: TinyTimmy_52 Start: 35089, Stop: 34865, Start Num: 9

Candidate Starts for TinyTimmy_52:

(Start: 9 @35089 has 24 MA's), (16, 35071), (22, 34990), (23, 34987), (24, 34954), (28, 34894), (31, 34885),

Gene: Toaka_53 Start: 35993, Stop: 35736, Start Num: 14

Candidate Starts for Toaka_53:

(Start: 14 @35993 has 1 MA's), (18, 35960), (19, 35945), (22, 35897), (24, 35861), (30, 35792), (35, 35774),

Gene: Tubs_53 Start: 36108, Stop: 35845, Start Num: 13

Candidate Starts for Tubs_53:

(Start: 13 @36108 has 39 MA's), (18, 36069), (19, 36054), (22, 36006), (24, 35970), (30, 35901), (35, 35883),

Gene: Ugenie5_50 Start: 36393, Stop: 36130, Start Num: 13

Candidate Starts for Ugenie5_50:

(Start: 13 @36393 has 39 MA's), (18, 36354), (19, 36339), (22, 36291), (23, 36288), (24, 36255), (30, 36186), (35, 36168),

Gene: Vanisoa_53 Start: 37020, Stop: 36766, Start Num: 13

Candidate Starts for Vanisoa_53:

(Start: 13 @37020 has 39 MA's), (15, 37011), (19, 36975), (22, 36927), (26, 36852), (27, 36831), (35, 36804),

Gene: Vix_55 Start: 36192, Stop: 35986, Start Num: 12

Candidate Starts for Vix_55:

(6, 36252), (Start: 12 @36192 has 65 MA's), (18, 36153), (19, 36138), (22, 36090),

Gene: Watson_55 Start: 36101, Stop: 35895, Start Num: 12

Candidate Starts for Watson_55:

(6, 36161), (Start: 12 @36101 has 65 MA's), (18, 36062), (19, 36047), (22, 35999),

Gene: Wooldri_57 Start: 36021, Stop: 35815, Start Num: 12

Candidate Starts for Wooldri_57:

(6, 36081), (Start: 12 @36021 has 65 MA's), (18, 35982), (19, 35967), (22, 35919),

Gene: Yecey3_54 Start: 35682, Stop: 35422, Start Num: 13

Candidate Starts for Yecey3_54:

(Start: 13 @35682 has 39 MA's), (16, 35664), (19, 35631), (21, 35604), (22, 35583), (25, 35541), (35, 35460),

Gene: Zetzy_54 Start: 35672, Stop: 35466, Start Num: 12

Candidate Starts for Zetzy_54:

(Start: 12 @35672 has 65 MA's), (18, 35633), (19, 35618), (22, 35570),