Pham 283554

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51: Phayonce_33
52: Purky_38
53: AuntGwenStacy_54 + 2
54: Faiyaz_54
55: Cracklewink_51 + 1
56: Barebow_19

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 283554 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283554 has 156 members, 12 are drafts.

Phages represented in each track:
• Track 1 : Delian_45, CaptainKirk2_42, Archis_45, Zarbodnamra_41, MintFen_42
• Track 2 : Pipp_38
• Track 3 : Petra_39
• Track 4 : Obliviate_38
• Track 5 : PhrostedPhlake_44
• Track 6 : BlingBling_39
• Track 7 : Hitter_43
• Track 8 : GMA5_19
• Track 9 : Moonflower_39
• Track 10 : Coriander_40
• Track 11 : Doggs_37
• Track 12 : Dmitri_40
• Track 13 : Opie_43
• Track 14 : Kiko_41
• Track 15 : TaronosaurasRx_42
• Track 16 : CoveyB_51, Valary_50, Mutzi_48, Jambalaya_48, Halo3_49, VanDeWege_51, Savbucketdawg_48, Gezellig_47
• Track 17 : Evamon_47, Phlop_47, Egi03_48, KimmyK_49, Togo_47, Fugax_51, Barb_50, ClamChowder_50, PullumCavea_47, SmokingBunny_48, Salvador_47, PinkCoffee_50, Nubi_48
• Track 18 : Bakery_54, Arri_51
• Track 19 : Portcullis_50, Danyall_50, Twister6_50
• Track 20 : Wizard_47
• Track 21 : RogerDodger_51
• Track 22 : Nyceirae_36
• Track 23 : Heinz_33, Hibiscus_33
• Track 24 : Guinevere_43
• Track 25 : IsHungry_37
• Track 26 : MillySue_42
• Track 27 : QuinnAvery_43
• Track 28 : GoodLuckBabe_43, Zaheer_43, Schism_45, Cole_40
• Track 29 : Gusanita_40
• Track 30 : Elesar_37
• Track 31 : Popper_41
• Track 32 : Kihatsu_43
• Track 33 : AllBusiness_39

• Track 34 : BruceB_33, Sweets_33, Halo_33, Annihilator_33, BPs_33, ShaboiShabazz_33, Cherrybomb426_33, Jane_33, Aroostook_33, Hope_33, Mowgli_33, TomBrady_33, Chance64_33, Marmie_33, JorRay_33, Phreak_33, Periodt_33, Avrafan_33, Jonghyun_33, Hotshotbaby7_33, Olga_33
• Track 35 : Barkley26_33
• Track 36 : Angel_33, Plagueis_33
• Track 37 : Taheera_33, Terror_33
• Track 38 : Paito_33
• Track 39 : Rabbs_33
• Track 40 : Grizzly_33, Kasen3_33, Sizemore_33
• Track 41 : LouisV14_33
• Track 42 : Liefie_33
• Track 43 : Fishburne_31, Kari_31, Bartholomew_30, Venti_31, Dynamo_31, Langerak_31, Mangethe_31, BronnyJr_31, Phineas_31, Majeke_31, HUHilltop_31, Necropolis_31, Etoile_31, Donovan_31, Vidya_31, Chubbello_31, GaloreK_31, Techage_31, Zilizebeth_31
• Track 44 : Polkaroo_31, Brusacoram_31, Atcoo_31, Bhagsy_31, KilKor_31, Willsammy_30, Phalm_31, PeanutPie_31, Megiddo_31, StressBall_31, Ksquared_31, GreaseLightnin_31, StevieRay_31, Camster_31, Bunnies_31, Gavriela_31, Juniormint_31, Sonah_31, Jung_30, CactusJack_31, Glaske_31
• Track 45 : FirstPlacePfu_31, Jebeks_32
• Track 46 : Arib1_31, Shipwreck_33, Pygmy_33, Bogie_33
• Track 47 : Malithi_31
• Track 48 : Thespis_31
• Track 49 : Phegasus_31
• Track 50 : Nazo_35, BigNuz_34
• Track 51 : Phayonce_33
• Track 52 : Purky_38
• Track 53 : AuntGwenStacy_54, Typha_53, Hilltopfarm_53
• Track 54 : Faiyaz_54
• Track 55 : Cracklewink_51, Bipper_51
• Track 56 : Barebow_19

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

The start number called the most often in the published annotations is 56, it was called in 60 of the 144 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Angel_33, Annihilator_33, Aroostook_33, Arri_51, Avrafan_33, BPs_33, Bakery_54, Barb_50, Bipper_51, BruceB_33, Chance64_33, Cherrybomb426_33, ClamChowder_50, CoveyB_51, Cracklewink_51, Danyall_50, Egi03_48, Evamon_47, Faiyaz_54, Fugax_51, Gezellig_47, Grizzly_33, Halo3_49, Halo_33, Hope_33, Hotshotbaby7_33, Jambalaya_48, Jane_33, Jonghyun_33, JorRay_33, Kasen3_33, KimmyK_49, LouisV14_33, Marmie_33, Mowgli_33, Mutzi_48, Nubi_48, Olga_33, Paito_33, Periodt_33, Phlop_47, Phreak_33, PinkCoffee_50, Pipp_38, Plagueis_33, Portcullis_50, PullumCavea_47, Rabbs_33, RogerDodger_51, Salvador_47, Savbucketdawg_48, ShaboiShabazz_33, Sizemore_33, SmokingBunny_48, Sweets_33, Togo_47, TomBrady_33, Twister6_50, Valary_50, VanDeWege_51,

Genes that have the "Most Annotated" start but do not call it:
• AuntGwenStacy_54, Barkley26_33, Hilltopfarm_53, Liefie_33, Taheera_33, Terror_33, Typha_53, Wizard_47,

Genes that do not have the "Most Annotated" start:
• AllBusiness_39, Archis_45, Arib1_31, Atcoo_31, Barebow_19, Bartholomew_30, Bhagsy_31, BigNuz_34, BlingBling_39, Bogie_33, BronnyJr_31, Brusacoram_31, Bunnies_31, CactusJack_31, Camster_31, CaptainKirk2_42, Chubbello_31, Cole_40, Coriander_40, Delian_45, Dmitri_40, Doggs_37, Donovan_31, Dynamo_31, Elesar_37, Etoile_31, FirstPlacePfu_31, Fishburne_31, GMA5_19, GaloreK_31, Gavriela_31, Glaske_31, GoodLuckBabe_43, GreaseLightnin_31, Guinevere_43, Gusanita_40, HUHilltop_31, Heinz_33, Hibiscus_33, Hitter_43, IsHungry_37, Jebeks_32, Jung_30, Juniormint_31, Kari_31, Kihatsu_43, Kiko_41, KilKor_31, Ksquared_31, Langerak_31, Majeke_31, Malithi_31, Mangethe_31, Megiddo_31, MillySue_42, MintFen_42, Moonflower_39, Nazo_35, Necropolis_31, Nyceirae_36, Obliviate_38, Opie_43, PeanutPie_31, Petra_39, Phalm_31, Phayonce_33, Phegasus_31, Phineas_31, PhrostedPhlake_44, Polkaroo_31, Popper_41, Purky_38, Pygmy_33, QuinnAvery_43, Schism_45, Shipwreck_33, Sonah_31, StevieRay_31, StressBall_31, TaronosaurasRx_42, Techage_31, Thespis_31, Venti_31, Vidya_31, Willsammy_30, Zaheer_43, Zarbodnamra_41, Zilizebeth_31,

Summary by start number:

Start 25:
• Found in 4 of 156 (2.6%) of genes in pham
• Manual Annotations of this start: 2 of 144
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Elesar_37 (FF), Kihatsu_43 (FF),

Start 28:
• Found in 45 of 156 (28.8%) of genes in pham
• Manual Annotations of this start: 2 of 144
• Called 4.4% of time when present
• Phage (with cluster) where this start called: Phegasus_31 (P1), Thespis_31 (P1),

Start 37:
• Found in 1 of 156 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PhrostedPhlake_44 (CV),

Start 38:
• Found in 15 of 156 (9.6%) of genes in pham
• Manual Annotations of this start: 7 of 144
• Called 46.7% of time when present
• Phage (with cluster) where this start called: Archis_45 (CV), BlingBling_39 (CV), CaptainKirk2_42 (CV), Delian_45 (CV), MintFen_42 (CV), Obliviate_38 (CV), Zarbodnamra_41 (CV),

Start 39:
• Found in 1 of 156 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Hitter_43 (CV),

Start 40:
• Found in 2 of 156 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Heinz_33 (DY), Hibiscus_33 (DY),

Start 45:
• Found in 4 of 156 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Popper_41 (FF),

Start 46:
• Found in 6 of 156 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Doggs_37 (DB),

Start 47:
• Found in 4 of 156 (2.6%) of genes in pham
• Manual Annotations of this start: 2 of 144
• Called 75.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_54 (Y), Hilltopfarm_53 (Y), Typha_53 (Y),

Start 50:
• Found in 24 of 156 (15.4%) of genes in pham
• Manual Annotations of this start: 7 of 144
• Called 29.2% of time when present
• Phage (with cluster) where this start called: AllBusiness_39 (FF), Gusanita_40 (FF), IsHungry_37 (FF), Petra_39 (CV), QuinnAvery_43 (FF), Taheera_33 (G1), Terror_33 (G1),

Start 51:
• Found in 1 of 156 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kiko_41 (DB),

Start 53:
• Found in 1 of 156 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barebow_19 (singleton),

Start 54:
• Found in 60 of 156 (38.5%) of genes in pham
• Manual Annotations of this start: 47 of 144
• Called 88.3% of time when present
• Phage (with cluster) where this start called: Arib1_31 (P1), Atcoo_31 (P1), Bartholomew_30 (P1), Bhagsy_31 (P1), BigNuz_34 (P4), Bogie_33 (P1),

BronnyJr_31 (P1), Brusacoram_31 (P1), Bunnies_31 (P1), CactusJack_31 (P1), Camster_31 (P1), Chubbello_31 (none), Donovan_31 (P1), Dynamo_31 (P1), Etoile_31 (P1), FirstPlacePfu_31 (P1), Fishburne_31 (P1), GaloreK_31 (P1), Gavriela_31 (P1), Glaske_31 (P1), GreaseLightnin_31 (P1), HUHilltop_31 (P1), Jebeks_32 (P1), Jung_30 (P1), Juniormint_31 (P1), Kari_31 (P1), KilKor_31 (P1), Ksquared_31 (P1), Langerak_31 (P1), Majeke_31 (P1), Malithi_31 (P1), Mangethe_31 (P1), Megiddo_31 (P1), Nazo_35 (P4), Necropolis_31 (P1), Opie_43 (DB), PeanutPie_31 (P1), Phalm_31 (P1), Phayonce_33 (P5), Phineas_31 (P1), Polkaroo_31 (P1), Purky_38 (P6), Pygmy_33 (P1), Shipwreck_33 (P1), Sonah_31 (P1), StevieRay_31 (P1), StressBall_31 (P1), TaronosaurasRx_42 (DB), Techage_31 (P1), Venti_31 (P1), Vidya_31 (P1), Willsammy_30 (P1), Zilizebeth_31 (P1),

Start 56:
• Found in 68 of 156 (43.6%) of genes in pham
• Manual Annotations of this start: 60 of 144
• Called 88.2% of time when present
• Phage (with cluster) where this start called: Angel_33 (G1), Annihilator_33 (G1), Aroostook_33 (G1), Arri_51 (DC1), Avrafan_33 (G1), BPs_33 (G1), Bakery_54 (DC1), Barb_50 (DC1), Bipper_51 (Y), BruceB_33 (G1), Chance64_33 (G1), Cherrybomb426_33 (G1), ClamChowder_50 (DC1), CoveyB_51 (DC1), Cracklewink_51 (Y), Danyall_50 (DC1), Egi03_48 (DC1), Evamon_47 (DC1), Faiyaz_54 (Y), Fugax_51 (DC1), Gezellig_47 (DC1), Grizzly_33 (G1), Halo3_49 (DC1), Halo_33 (G1), Hope_33 (G1), Hotshotbaby7_33 (G1), Jambalaya_48 (DC1), Jane_33 (G1), Jonghyun_33 (G1), JorRay_33 (G1), Kasen3_33 (G1), KimmyK_49 (DC1), LouisV14_33 (G1), Marmie_33 (G1), Mowgli_33 (G1), Mutzi_48 (DC1), Nubi_48 (DC1), Olga_33 (G1), Paito_33 (G1), Periodt_33 (G1), Phlop_47 (DC1), Phreak_33 (G1), PinkCoffee_50 (DC1), Pipp_38 (CV), Plagueis_33 (G1), Portcullis_50 (DC1), PullumCavea_47 (DC1), Rabbs_33 (G1), RogerDodger_51 (DC1), Salvador_47 (DC1), Savbucketdawg_48 (DC1), ShaboiShabazz_33 (G1), Sizemore_33 (G1), SmokingBunny_48 (DC1), Sweets_33 (G1), Togo_47 (DC1), TomBrady_33 (G1), Twister6_50 (DC1), Valary_50 (DC1), VanDeWege_51 (DC1),

Start 61:
• Found in 33 of 156 (21.2%) of genes in pham
• Manual Annotations of this start: 2 of 144
• Called 6.1% of time when present
• Phage (with cluster) where this start called: Barkley26_33 (G1), Liefie_33 (G1),

Start 67:
• Found in 1 of 156 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nyceirae_36 (DT),

Start 70:
• Found in 51 of 156 (32.7%) of genes in pham
• Manual Annotations of this start: 3 of 144
• Called 7.8% of time when present
• Phage (with cluster) where this start called: Coriander_40 (DB), Dmitri_40 (DB), Moonflower_39 (DB), Wizard_47 (DC1),

Start 71:
• Found in 1 of 156 (0.6%) of genes in pham

• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA5_19 (CW2),

Start 78:
• Found in 56 of 156 (35.9%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 3.6% of time when present
• Phage (with cluster) where this start called: Guinevere_43 (FF), MillySue_42 (FF),

Start 85:
• Found in 60 of 156 (38.5%) of genes in pham
• Manual Annotations of this start: 3 of 144
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Cole_40 (FF), GoodLuckBabe_43 (FF), Schism_45 (FF), Zaheer_43 (FF),

Summary by clusters:

There are 15 clusters represented in this pham: singleton, P1, P6, P4, G1, P5, CW2, DB, none, FF, DY, Y, DT, CV, DC1,

Info for manual annotations of cluster CV:
•Start number 37 was manually annotated 1 time for cluster CV.
•Start number 38 was manually annotated 7 times for cluster CV.
•Start number 39 was manually annotated 1 time for cluster CV.
•Start number 50 was manually annotated 1 time for cluster CV.
•Start number 56 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DB:
•Start number 46 was manually annotated 1 time for cluster DB.
•Start number 51 was manually annotated 1 time for cluster DB.
•Start number 54 was manually annotated 2 times for cluster DB.
•Start number 70 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DC1:
•Start number 56 was manually annotated 27 times for cluster DC1.
•Start number 70 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DT:
•Start number 67 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DY:
•Start number 40 was manually annotated 1 time for cluster DY.

Info for manual annotations of cluster FF:
•Start number 25 was manually annotated 2 times for cluster FF.
•Start number 45 was manually annotated 1 time for cluster FF.
•Start number 50 was manually annotated 4 times for cluster FF.
•Start number 78 was manually annotated 1 time for cluster FF.
•Start number 85 was manually annotated 3 times for cluster FF.

Info for manual annotations of cluster G1:
•Start number 50 was manually annotated 2 times for cluster G1.
•Start number 56 was manually annotated 29 times for cluster G1.
•Start number 61 was manually annotated 2 times for cluster G1.

Info for manual annotations of cluster P1:
•Start number 28 was manually annotated 2 times for cluster P1.
•Start number 54 was manually annotated 41 times for cluster P1.

Info for manual annotations of cluster P4:
•Start number 54 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 54 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:
•Start number 54 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Y:
•Start number 47 was manually annotated 2 times for cluster Y.
•Start number 56 was manually annotated 3 times for cluster Y.

Gene Information:

Gene: AllBusiness_39 Start: 31045, Stop: 30608, Start Num: 50
Candidate Starts for AllBusiness_39:
(19, 31183), (Start: 25 @31135 has 2 MA's), (29, 31111), (33, 31099), (Start: 45 @31057 has 1 MA's),
(Start: 50 @31045 has 7 MA's), (75, 30976), (79, 30961), (91, 30892), (110, 30811), (115, 30718),
(135, 30625),

Gene: Angel_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Angel_33:
(17, 29489), (20, 29453), (21, 29447), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's),
(80, 29243), (84, 29216), (114, 29048), (121, 28985), (122, 28979),

Gene: Annihilator_33 Start: 29315, Stop: 28905, Start Num: 56
Candidate Starts for Annihilator_33:
(17, 29480), (20, 29444), (21, 29438), (30, 29390), (Start: 56 @29315 has 60 MA's), (Start: 61 @29297
has 2 MA's), (80, 29234), (84, 29207), (88, 29186), (114, 29039), (121, 28976), (122, 28970),

Gene: Archis_45 Start: 33058, Stop: 32636, Start Num: 38
Candidate Starts for Archis_45:
(Start: 38 @33058 has 7 MA's), (48, 33028), (Start: 50 @33022 has 7 MA's), (Start: 70 @32974 has 3
MA's), (106, 32821), (123, 32689),

Gene: Arib1_31 Start: 27353, Stop: 26952, Start Num: 54
Candidate Starts for Arib1_31:
(Start: 54 @27353 has 47 MA's), (63, 27326), (73, 27296), (Start: 78 @27278 has 1 MA's), (83, 27254),
(Start: 85 @27236 has 3 MA's), (90, 27209), (98, 27176), (108, 27146), (125, 26996),

Gene: Aroostook_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Aroostook_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Arri_51 Start: 39948, Stop: 39535, Start Num: 56
Candidate Starts for Arri_51:
(24, 40053), (26, 40047), (31, 40023), (42, 39984), (Start: 56 @39948 has 60 MA's), (Start: 70 @39906 has 3 MA's), (84, 39840), (88, 39819), (106, 39759), (109, 39741),

Gene: Atcoo_31 Start: 27834, Stop: 27433, Start Num: 54
Candidate Starts for Atcoo_31:
(22, 27945), (Start: 28 @27915 has 2 MA's), (Start: 54 @27834 has 47 MA's), (63, 27807), (73, 27777), (Start: 78 @27759 has 1 MA's), (80, 27750), (83, 27735), (Start: 85 @27717 has 3 MA's), (90, 27690), (98, 27657), (108, 27627), (125, 27477),

Gene: AuntGwenStacy_54 Start: 41198, Stop: 40797, Start Num: 47
Candidate Starts for AuntGwenStacy_54:
(Start: 47 @41198 has 2 MA's), (Start: 56 @41177 has 60 MA's), (73, 41123), (84, 41069), (92, 41027), (106, 40988), (108, 40976), (114, 40901), (119, 40847), (120, 40841),

Gene: Avrafan_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Avrafan_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: BPs_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for BPs_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Bakery_54 Start: 41089, Stop: 40676, Start Num: 56
Candidate Starts for Bakery_54:
(24, 41194), (26, 41188), (31, 41164), (42, 41125), (Start: 56 @41089 has 60 MA's), (Start: 70 @41047 has 3 MA's), (84, 40981), (88, 40960), (106, 40900), (109, 40882),

Gene: Barb_50 Start: 40067, Stop: 39654, Start Num: 56
Candidate Starts for Barb_50:
(24, 40172), (26, 40166), (31, 40142), (42, 40103), (Start: 56 @40067 has 60 MA's), (Start: 70 @40025 has 3 MA's), (84, 39959), (88, 39938), (98, 39896), (109, 39860), (118, 39752),

Gene: Barebow_19 Start: 15697, Stop: 15296, Start Num: 53
Candidate Starts for Barebow_19:
(Start: 53 @15697 has 1 MA's), (55, 15691), (65, 15664), (69, 15649), (101, 15514), (108, 15490), (114, 15403), (124, 15319),

Gene: Barkley26_33 Start: 29328, Stop: 28936, Start Num: 61
Candidate Starts for Barkley26_33:
(17, 29511), (20, 29475), (21, 29469), (Start: 56 @29346 has 60 MA's), (Start: 61 @29328 has 2 MA's), (80, 29265), (84, 29238), (98, 29175), (114, 29070), (121, 29007), (122, 29001), (129, 28977),

Gene: Bartholomew_30 Start: 27347, Stop: 26946, Start Num: 54
Candidate Starts for Bartholomew_30:

(22, 27458), (Start: 28 @27428 has 2 MA's), (35, 27404), (Start: 54 @27347 has 47 MA's), (63, 27320), (73, 27290), (Start: 78 @27272 has 1 MA's), (83, 27248), (Start: 85 @27230 has 3 MA's), (90, 27203), (98, 27170), (108, 27140), (125, 26990),

Gene: Bhagsy_31 Start: 27343, Stop: 26942, Start Num: 54
Candidate Starts for Bhagsy_31:
(22, 27454), (Start: 28 @27424 has 2 MA's), (Start: 54 @27343 has 47 MA's), (63, 27316), (73, 27286), (Start: 78 @27268 has 1 MA's), (80, 27259), (83, 27244), (Start: 85 @27226 has 3 MA's), (90, 27199), (98, 27166), (108, 27136), (125, 26986),

Gene: BigNuz_34 Start: 29474, Stop: 29073, Start Num: 54
Candidate Starts for BigNuz_34:
(18, 29621), (23, 29579), (32, 29540), (43, 29504), (Start: 54 @29474 has 47 MA's), (81, 29384), (83, 29375), (90, 29330), (98, 29297), (108, 29267), (125, 29117),

Gene: Bipper_51 Start: 39965, Stop: 39576, Start Num: 56
Candidate Starts for Bipper_51:
(Start: 56 @39965 has 60 MA's), (84, 39857), (Start: 85 @39851 has 3 MA's), (87, 39839), (88, 39836), (92, 39815), (97, 39797), (106, 39776), (108, 39764), (113, 39701), (116, 39662), (120, 39641), (121, 39638),

Gene: BlingBling_39 Start: 33071, Stop: 32649, Start Num: 38
Candidate Starts for BlingBling_39:
(27, 33113), (32, 33092), (Start: 38 @33071 has 7 MA's), (48, 33041), (Start: 50 @33035 has 7 MA's), (Start: 70 @32987 has 3 MA's), (106, 32834), (123, 32702),

Gene: Bogie_33 Start: 29130, Stop: 28729, Start Num: 54
Candidate Starts for Bogie_33:
(Start: 54 @29130 has 47 MA's), (63, 29103), (73, 29073), (Start: 78 @29055 has 1 MA's), (83, 29031), (Start: 85 @29013 has 3 MA's), (90, 28986), (98, 28953), (108, 28923), (125, 28773),

Gene: BronnyJr_31 Start: 27844, Stop: 27443, Start Num: 54
Candidate Starts for BronnyJr_31:
(22, 27955), (Start: 28 @27925 has 2 MA's), (35, 27901), (Start: 54 @27844 has 47 MA's), (63, 27817), (73, 27787), (Start: 78 @27769 has 1 MA's), (83, 27745), (Start: 85 @27727 has 3 MA's), (90, 27700), (98, 27667), (108, 27637), (125, 27487),

Gene: BruceB_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for BruceB_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Brusacoram_31 Start: 27340, Stop: 26939, Start Num: 54
Candidate Starts for Brusacoram_31:
(22, 27451), (Start: 28 @27421 has 2 MA's), (Start: 54 @27340 has 47 MA's), (63, 27313), (73, 27283), (Start: 78 @27265 has 1 MA's), (80, 27256), (83, 27241), (Start: 85 @27223 has 3 MA's), (90, 27196), (98, 27163), (108, 27133), (125, 26983),

Gene: Bunnies_31 Start: 27361, Stop: 26960, Start Num: 54
Candidate Starts for Bunnies_31:
(22, 27472), (Start: 28 @27442 has 2 MA's), (Start: 54 @27361 has 47 MA's), (63, 27334), (73, 27304), (Start: 78 @27286 has 1 MA's), (80, 27277), (83, 27262), (Start: 85 @27244 has 3 MA's), (90, 27217), (98, 27184), (108, 27154), (125, 27004),

Gene: CactusJack_31 Start: 27604, Stop: 27203, Start Num: 54
Candidate Starts for CactusJack_31:
(22, 27715), (Start: 28 @27685 has 2 MA's), (Start: 54 @27604 has 47 MA's), (63, 27577), (73, 27547), (Start: 78 @27529 has 1 MA's), (80, 27520), (83, 27505), (Start: 85 @27487 has 3 MA's), (90, 27460), (98, 27427), (108, 27397), (125, 27247),

Gene: Camster_31 Start: 27377, Stop: 26976, Start Num: 54
Candidate Starts for Camster_31:
(22, 27488), (Start: 28 @27458 has 2 MA's), (Start: 54 @27377 has 47 MA's), (63, 27350), (73, 27320), (Start: 78 @27302 has 1 MA's), (80, 27293), (83, 27278), (Start: 85 @27260 has 3 MA's), (90, 27233), (98, 27200), (108, 27170), (125, 27020),

Gene: CaptainKirk2_42 Start: 32356, Stop: 31934, Start Num: 38
Candidate Starts for CaptainKirk2_42:
(Start: 38 @32356 has 7 MA's), (48, 32326), (Start: 50 @32320 has 7 MA's), (Start: 70 @32272 has 3 MA's), (106, 32119), (123, 31987),

Gene: Chance64_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Chance64_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Cherrybomb426_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Cherrybomb426_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Chubbello_31 Start: 27346, Stop: 26945, Start Num: 54
Candidate Starts for Chubbello_31:
(22, 27457), (Start: 28 @27427 has 2 MA's), (35, 27403), (Start: 54 @27346 has 47 MA's), (63, 27319), (73, 27289), (Start: 78 @27271 has 1 MA's), (83, 27247), (Start: 85 @27229 has 3 MA's), (90, 27202), (98, 27169), (108, 27139), (125, 26989),

Gene: ClamChowder_50 Start: 40067, Stop: 39654, Start Num: 56
Candidate Starts for ClamChowder_50:
(24, 40172), (26, 40166), (31, 40142), (42, 40103), (Start: 56 @40067 has 60 MA's), (Start: 70 @40025 has 3 MA's), (84, 39959), (88, 39938), (98, 39896), (109, 39860), (118, 39752),

Gene: Cole_40 Start: 29705, Stop: 29412, Start Num: 85
Candidate Starts for Cole_40:
(22, 29933), (Start: 38 @29867 has 7 MA's), (Start: 50 @29831 has 7 MA's), (Start: 70 @29777 has 3 MA's), (Start: 78 @29747 has 1 MA's), (Start: 85 @29705 has 3 MA's), (106, 29624), (111, 29585), (115, 29516),

Gene: Coriander_40 Start: 31779, Stop: 31459, Start Num: 70
Candidate Starts for Coriander_40:
(Start: 46 @31839 has 1 MA's), (Start: 54 @31821 has 47 MA's), (Start: 70 @31779 has 3 MA's), (89, 31692), (102, 31647), (125, 31485), (126, 31482),

Gene: CoveyB_51 Start: 39766, Stop: 39353, Start Num: 56
Candidate Starts for CoveyB_51:

(42, 39802), (Start: 56 @39766 has 60 MA's), (Start: 70 @39724 has 3 MA's), (84, 39658), (88, 39637), (98, 39595), (109, 39559), (118, 39451),

Gene: Cracklewink_51 Start: 39958, Stop: 39569, Start Num: 56
Candidate Starts for Cracklewink_51:
(Start: 56 @39958 has 60 MA's), (84, 39850), (Start: 85 @39844 has 3 MA's), (87, 39832), (88, 39829), (92, 39808), (97, 39790), (106, 39769), (108, 39757), (113, 39694), (116, 39655), (120, 39634), (121, 39631),

Gene: Danyall_50 Start: 39768, Stop: 39355, Start Num: 56
Candidate Starts for Danyall_50:
(24, 39873), (26, 39867), (31, 39843), (42, 39804), (Start: 56 @39768 has 60 MA's), (Start: 70 @39726 has 3 MA's), (84, 39660), (88, 39639), (98, 39597), (109, 39561),

Gene: Delian_45 Start: 32354, Stop: 31932, Start Num: 38
Candidate Starts for Delian_45:
(Start: 38 @32354 has 7 MA's), (48, 32324), (Start: 50 @32318 has 7 MA's), (Start: 70 @32270 has 3 MA's), (106, 32117), (123, 31985),

Gene: Dmitri_40 Start: 33369, Stop: 33049, Start Num: 70
Candidate Starts for Dmitri_40:
(Start: 46 @33429 has 1 MA's), (Start: 54 @33411 has 47 MA's), (Start: 70 @33369 has 3 MA's), (108, 33210), (109, 33204), (126, 33072), (130, 33063),

Gene: Doggs_37 Start: 32568, Stop: 32188, Start Num: 46
Candidate Starts for Doggs_37:
(Start: 46 @32568 has 1 MA's), (Start: 54 @32550 has 47 MA's), (Start: 70 @32508 has 3 MA's), (89, 32421), (102, 32376), (126, 32211), (130, 32202),

Gene: Donovan_31 Start: 27369, Stop: 26968, Start Num: 54
Candidate Starts for Donovan_31:
(22, 27480), (Start: 28 @27450 has 2 MA's), (35, 27426), (Start: 54 @27369 has 47 MA's), (63, 27342), (73, 27312), (Start: 78 @27294 has 1 MA's), (83, 27270), (Start: 85 @27252 has 3 MA's), (90, 27225), (98, 27192), (108, 27162), (125, 27012),

Gene: Dynamo_31 Start: 27758, Stop: 27357, Start Num: 54
Candidate Starts for Dynamo_31:
(22, 27869), (Start: 28 @27839 has 2 MA's), (35, 27815), (Start: 54 @27758 has 47 MA's), (63, 27731), (73, 27701), (Start: 78 @27683 has 1 MA's), (83, 27659), (Start: 85 @27641 has 3 MA's), (90, 27614), (98, 27581), (108, 27551), (125, 27401),

Gene: Egi03_48 Start: 39548, Stop: 39135, Start Num: 56
Candidate Starts for Egi03_48:
(24, 39653), (26, 39647), (31, 39623), (42, 39584), (Start: 56 @39548 has 60 MA's), (Start: 70 @39506 has 3 MA's), (84, 39440), (88, 39419), (98, 39377), (109, 39341), (118, 39233),

Gene: Elesar_37 Start: 30914, Stop: 30393, Start Num: 25
Candidate Starts for Elesar_37:
(Start: 25 @30914 has 2 MA's), (29, 30890), (33, 30878), (Start: 45 @30836 has 1 MA's), (Start: 50 @30824 has 7 MA's), (75, 30755), (79, 30740), (99, 30638), (110, 30590), (115, 30497),

Gene: Etoile_31 Start: 27347, Stop: 26946, Start Num: 54
Candidate Starts for Etoile_31:

(22, 27458), (Start: 28 @27428 has 2 MA's), (35, 27404), (Start: 54 @27347 has 47 MA's), (63, 27320), (73, 27290), (Start: 78 @27272 has 1 MA's), (83, 27248), (Start: 85 @27230 has 3 MA's), (90, 27203), (98, 27170), (108, 27140), (125, 26990),

Gene: Evamon_47 Start: 39787, Stop: 39374, Start Num: 56
Candidate Starts for Evamon_47:
(24, 39892), (26, 39886), (31, 39862), (42, 39823), (Start: 56 @39787 has 60 MA's), (Start: 70 @39745 has 3 MA's), (84, 39679), (88, 39658), (98, 39616), (109, 39580), (118, 39472),

Gene: Faiyaz_54 Start: 41165, Stop: 40785, Start Num: 56
Candidate Starts for Faiyaz_54:
(Start: 47 @41186 has 2 MA's), (Start: 56 @41165 has 60 MA's), (73, 41111), (84, 41057), (92, 41015), (106, 40976), (108, 40964), (114, 40889), (119, 40835), (120, 40829),

Gene: FirstPlacePfu_31 Start: 27379, Stop: 26978, Start Num: 54
Candidate Starts for FirstPlacePfu_31:
(22, 27490), (Start: 28 @27460 has 2 MA's), (Start: 54 @27379 has 47 MA's), (63, 27352), (73, 27322), (Start: 78 @27304 has 1 MA's), (83, 27280), (Start: 85 @27262 has 3 MA's), (90, 27235), (98, 27202), (108, 27172), (125, 27022),

Gene: Fishburne_31 Start: 27347, Stop: 26946, Start Num: 54
Candidate Starts for Fishburne_31:
(22, 27458), (Start: 28 @27428 has 2 MA's), (35, 27404), (Start: 54 @27347 has 47 MA's), (63, 27320), (73, 27290), (Start: 78 @27272 has 1 MA's), (83, 27248), (Start: 85 @27230 has 3 MA's), (90, 27203), (98, 27170), (108, 27140), (125, 26990),

Gene: Fugax_51 Start: 40059, Stop: 39646, Start Num: 56
Candidate Starts for Fugax_51:
(24, 40164), (26, 40158), (31, 40134), (42, 40095), (Start: 56 @40059 has 60 MA's), (Start: 70 @40017 has 3 MA's), (84, 39951), (88, 39930), (98, 39888), (109, 39852), (118, 39744),

Gene: GMA5_19 Start: 14633, Stop: 14346, Start Num: 71
Candidate Starts for GMA5_19:
(52, 14684), (58, 14672), (64, 14651), (71, 14633), (83, 14591), (Start: 85 @14573 has 3 MA's), (88, 14558), (108, 14486), (117, 14381), (119, 14369),

Gene: GaloreK_31 Start: 27343, Stop: 26942, Start Num: 54
Candidate Starts for GaloreK_31:
(22, 27454), (Start: 28 @27424 has 2 MA's), (35, 27400), (Start: 54 @27343 has 47 MA's), (63, 27316), (73, 27286), (Start: 78 @27268 has 1 MA's), (83, 27244), (Start: 85 @27226 has 3 MA's), (90, 27199), (98, 27166), (108, 27136), (125, 26986),

Gene: Gavriela_31 Start: 27604, Stop: 27203, Start Num: 54
Candidate Starts for Gavriela_31:
(22, 27715), (Start: 28 @27685 has 2 MA's), (Start: 54 @27604 has 47 MA's), (63, 27577), (73, 27547), (Start: 78 @27529 has 1 MA's), (80, 27520), (83, 27505), (Start: 85 @27487 has 3 MA's), (90, 27460), (98, 27427), (108, 27397), (125, 27247),

Gene: Gezellig_47 Start: 39919, Stop: 39506, Start Num: 56
Candidate Starts for Gezellig_47:
(42, 39955), (Start: 56 @39919 has 60 MA's), (Start: 70 @39877 has 3 MA's), (84, 39811), (88, 39790), (98, 39748), (109, 39712), (118, 39604),

Gene: Glaske_31 Start: 27604, Stop: 27203, Start Num: 54
Candidate Starts for Glaske_31:
(22, 27715), (Start: 28 @27685 has 2 MA's), (Start: 54 @27604 has 47 MA's), (63, 27577), (73, 27547), (Start: 78 @27529 has 1 MA's), (80, 27520), (83, 27505), (Start: 85 @27487 has 3 MA's), (90, 27460), (98, 27427), (108, 27397), (125, 27247),

Gene: GoodLuckBabe_43 Start: 30339, Stop: 30046, Start Num: 85
Candidate Starts for GoodLuckBabe_43:
(22, 30567), (Start: 38 @30501 has 7 MA's), (Start: 50 @30465 has 7 MA's), (Start: 70 @30411 has 3 MA's), (Start: 78 @30381 has 1 MA's), (Start: 85 @30339 has 3 MA's), (106, 30258), (111, 30219), (115, 30150),

Gene: GreaseLightnin_31 Start: 27596, Stop: 27195, Start Num: 54
Candidate Starts for GreaseLightnin_31:
(22, 27707), (Start: 28 @27677 has 2 MA's), (Start: 54 @27596 has 47 MA's), (63, 27569), (73, 27539), (Start: 78 @27521 has 1 MA's), (80, 27512), (83, 27497), (Start: 85 @27479 has 3 MA's), (90, 27452), (98, 27419), (108, 27389), (125, 27239),

Gene: Grizzly_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Grizzly_33:
(17, 29489), (20, 29453), (21, 29447), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (98, 29153), (114, 29048), (121, 28985), (122, 28979), (129, 28955),

Gene: Guinevere_43 Start: 29972, Stop: 29637, Start Num: 78
Candidate Starts for Guinevere_43:
(22, 30158), (Start: 38 @30092 has 7 MA's), (Start: 50 @30056 has 7 MA's), (Start: 70 @30002 has 3 MA's), (Start: 78 @29972 has 1 MA's), (Start: 85 @29930 has 3 MA's), (106, 29849), (111, 29810), (115, 29741),

Gene: Gusanita_40 Start: 30510, Stop: 30103, Start Num: 50
Candidate Starts for Gusanita_40:
(Start: 50 @30510 has 7 MA's), (57, 30495), (94, 30354), (112, 30270), (115, 30201),

Gene: HUHilltop_31 Start: 27380, Stop: 26979, Start Num: 54
Candidate Starts for HUHilltop_31:
(22, 27491), (Start: 28 @27461 has 2 MA's), (35, 27437), (Start: 54 @27380 has 47 MA's), (63, 27353), (73, 27323), (Start: 78 @27305 has 1 MA's), (83, 27281), (Start: 85 @27263 has 3 MA's), (90, 27236), (98, 27203), (108, 27173), (125, 27023),

Gene: Halo_33 Start: 29319, Stop: 28909, Start Num: 56
Candidate Starts for Halo_33:
(17, 29484), (20, 29448), (21, 29442), (30, 29394), (Start: 56 @29319 has 60 MA's), (Start: 61 @29301 has 2 MA's), (80, 29238), (84, 29211), (88, 29190), (114, 29043), (121, 28980), (122, 28974),

Gene: Halo3_49 Start: 40504, Stop: 40091, Start Num: 56
Candidate Starts for Halo3_49:
(42, 40540), (Start: 56 @40504 has 60 MA's), (Start: 70 @40462 has 3 MA's), (84, 40396), (88, 40375), (98, 40333), (109, 40297), (118, 40189),

Gene: Heinz_33 Start: 25504, Stop: 25082, Start Num: 40
Candidate Starts for Heinz_33:
(Start: 40 @25504 has 1 MA's), (49, 25480), (69, 25432), (75, 25417), (79, 25408), (95, 25330), (105, 25303),

Gene: Hibiscus_33 Start: 25453, Stop: 25031, Start Num: 40
Candidate Starts for Hibiscus_33:
(Start: 40 @25453 has 1 MA's), (49, 25429), (69, 25381), (75, 25366), (79, 25357), (95, 25279), (105, 25252),

Gene: Hilltopfarm_53 Start: 40885, Stop: 40484, Start Num: 47
Candidate Starts for Hilltopfarm_53:
(Start: 47 @40885 has 2 MA's), (Start: 56 @40864 has 60 MA's), (73, 40810), (84, 40756), (92, 40714), (106, 40675), (108, 40663), (114, 40588), (119, 40534), (120, 40528),

Gene: Hitter_43 Start: 32564, Stop: 32145, Start Num: 39
Candidate Starts for Hitter_43:
(Start: 39 @32564 has 1 MA's), (72, 32474), (93, 32369), (104, 32339), (123, 32198), (127, 32183),

Gene: Hope_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Hope_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Hotshotbaby7_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Hotshotbaby7_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: IsHungry_37 Start: 28697, Stop: 28293, Start Num: 50
Candidate Starts for IsHungry_37:
(Start: 50 @28697 has 7 MA's), (57, 28682), (Start: 70 @28655 has 3 MA's), (94, 28541), (109, 28490), (115, 28388), (131, 28334),

Gene: Jambalaya_48 Start: 39566, Stop: 39153, Start Num: 56
Candidate Starts for Jambalaya_48:
(42, 39602), (Start: 56 @39566 has 60 MA's), (Start: 70 @39524 has 3 MA's), (84, 39458), (88, 39437), (98, 39395), (109, 39359), (118, 39251),

Gene: Jane_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Jane_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Jebeks_32 Start: 27332, Stop: 26931, Start Num: 54
Candidate Starts for Jebeks_32:
(22, 27443), (Start: 28 @27413 has 2 MA's), (Start: 54 @27332 has 47 MA's), (63, 27305), (73, 27275), (Start: 78 @27257 has 1 MA's), (83, 27233), (Start: 85 @27215 has 3 MA's), (90, 27188), (98, 27155), (108, 27125), (125, 26975),

Gene: Jonghyun_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Jonghyun_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: JorRay_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for JorRay_33:

(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Jung_30 Start: 27311, Stop: 26910, Start Num: 54
Candidate Starts for Jung_30:
(22, 27422), (Start: 28 @27392 has 2 MA's), (Start: 54 @27311 has 47 MA's), (63, 27284), (73, 27254), (Start: 78 @27236 has 1 MA's), (80, 27227), (83, 27212), (Start: 85 @27194 has 3 MA's), (90, 27167), (98, 27134), (108, 27104), (125, 26954),

Gene: Juniormint_31 Start: 27383, Stop: 26982, Start Num: 54
Candidate Starts for Juniormint_31:
(22, 27494), (Start: 28 @27464 has 2 MA's), (Start: 54 @27383 has 47 MA's), (63, 27356), (73, 27326), (Start: 78 @27308 has 1 MA's), (80, 27299), (83, 27284), (Start: 85 @27266 has 3 MA's), (90, 27239), (98, 27206), (108, 27176), (125, 27026),

Gene: Kari_31 Start: 27344, Stop: 26943, Start Num: 54
Candidate Starts for Kari_31:
(22, 27455), (Start: 28 @27425 has 2 MA's), (35, 27401), (Start: 54 @27344 has 47 MA's), (63, 27317), (73, 27287), (Start: 78 @27269 has 1 MA's), (83, 27245), (Start: 85 @27227 has 3 MA's), (90, 27200), (98, 27167), (108, 27137), (125, 26987),

Gene: Kasen3_33 Start: 29325, Stop: 28915, Start Num: 56
Candidate Starts for Kasen3_33:
(17, 29490), (20, 29454), (21, 29448), (Start: 56 @29325 has 60 MA's), (Start: 61 @29307 has 2 MA's), (80, 29244), (84, 29217), (98, 29154), (114, 29049), (121, 28986), (122, 28980), (129, 28956),

Gene: Kihatsu_43 Start: 31043, Stop: 30516, Start Num: 25
Candidate Starts for Kihatsu_43:
(Start: 25 @31043 has 2 MA's), (29, 31019), (33, 31007), (Start: 45 @30965 has 1 MA's), (Start: 50 @30953 has 7 MA's), (75, 30884), (79, 30869), (110, 30719), (115, 30626),

Gene: Kiko_41 Start: 32143, Stop: 31775, Start Num: 51
Candidate Starts for Kiko_41:
(36, 32188), (Start: 51 @32143 has 1 MA's), (62, 32113), (66, 32104), (77, 32065), (80, 32056), (96, 31969), (97, 31966), (109, 31930),

Gene: KilKor_31 Start: 27604, Stop: 27203, Start Num: 54
Candidate Starts for KilKor_31:
(22, 27715), (Start: 28 @27685 has 2 MA's), (Start: 54 @27604 has 47 MA's), (63, 27577), (73, 27547), (Start: 78 @27529 has 1 MA's), (80, 27520), (83, 27505), (Start: 85 @27487 has 3 MA's), (90, 27460), (98, 27427), (108, 27397), (125, 27247),

Gene: KimmyK_49 Start: 40501, Stop: 40088, Start Num: 56
Candidate Starts for KimmyK_49:
(24, 40606), (26, 40600), (31, 40576), (42, 40537), (Start: 56 @40501 has 60 MA's), (Start: 70 @40459 has 3 MA's), (84, 40393), (88, 40372), (98, 40330), (109, 40294), (118, 40186),

Gene: Ksquared_31 Start: 27361, Stop: 26960, Start Num: 54
Candidate Starts for Ksquared_31:
(22, 27472), (Start: 28 @27442 has 2 MA's), (Start: 54 @27361 has 47 MA's), (63, 27334), (73, 27304), (Start: 78 @27286 has 1 MA's), (80, 27277), (83, 27262), (Start: 85 @27244 has 3 MA's), (90, 27217), (98, 27184), (108, 27154), (125, 27004),

Gene: Langerak_31 Start: 27363, Stop: 26962, Start Num: 54
Candidate Starts for Langerak_31:
(22, 27474), (Start: 28 @27444 has 2 MA's), (35, 27420), (Start: 54 @27363 has 47 MA's), (63, 27336), (73, 27306), (Start: 78 @27288 has 1 MA's), (83, 27264), (Start: 85 @27246 has 3 MA's), (90, 27219), (98, 27186), (108, 27156), (125, 27006),

Gene: Liefie_33 Start: 29304, Stop: 28912, Start Num: 61
Candidate Starts for Liefie_33:
(17, 29487), (20, 29451), (21, 29445), (30, 29397), (Start: 56 @29322 has 60 MA's), (Start: 61 @29304 has 2 MA's), (80, 29241), (84, 29214), (88, 29193), (114, 29046), (121, 28983), (122, 28977),

Gene: LouisV14_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for LouisV14_33:
(1, 30914), (2, 30821), (3, 30602), (4, 30569), (5, 30500), (6, 30452), (7, 30383), (8, 30134), (9, 30122), (10, 29981), (11, 29978), (12, 29885), (13, 29813), (14, 29696), (15, 29588), (17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Majeke_31 Start: 27385, Stop: 26984, Start Num: 54
Candidate Starts for Majeke_31:
(22, 27496), (Start: 28 @27466 has 2 MA's), (35, 27442), (Start: 54 @27385 has 47 MA's), (63, 27358), (73, 27328), (Start: 78 @27310 has 1 MA's), (83, 27286), (Start: 85 @27268 has 3 MA's), (90, 27241), (98, 27208), (108, 27178), (125, 27028),

Gene: Malithi_31 Start: 27270, Stop: 26800, Start Num: 54
Candidate Starts for Malithi_31:
(22, 27381), (Start: 28 @27351 has 2 MA's), (Start: 54 @27270 has 47 MA's), (63, 27243), (73, 27213), (Start: 78 @27195 has 1 MA's), (80, 27186), (83, 27171), (Start: 85 @27153 has 3 MA's), (90, 27126), (98, 27093), (108, 27063), (125, 26913), (133, 26886), (137, 26808),

Gene: Mangethe_31 Start: 27385, Stop: 26984, Start Num: 54
Candidate Starts for Mangethe_31:
(22, 27496), (Start: 28 @27466 has 2 MA's), (35, 27442), (Start: 54 @27385 has 47 MA's), (63, 27358), (73, 27328), (Start: 78 @27310 has 1 MA's), (83, 27286), (Start: 85 @27268 has 3 MA's), (90, 27241), (98, 27208), (108, 27178), (125, 27028),

Gene: Marmie_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Marmie_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Megiddo_31 Start: 27604, Stop: 27203, Start Num: 54
Candidate Starts for Megiddo_31:
(22, 27715), (Start: 28 @27685 has 2 MA's), (Start: 54 @27604 has 47 MA's), (63, 27577), (73, 27547), (Start: 78 @27529 has 1 MA's), (80, 27520), (83, 27505), (Start: 85 @27487 has 3 MA's), (90, 27460), (98, 27427), (108, 27397), (125, 27247),

Gene: MillySue_42 Start: 30226, Stop: 29900, Start Num: 78
Candidate Starts for MillySue_42:
(22, 30412), (Start: 38 @30346 has 7 MA's), (Start: 50 @30310 has 7 MA's), (Start: 70 @30256 has 3 MA's), (Start: 78 @30226 has 1 MA's), (Start: 85 @30184 has 3 MA's), (106, 30103), (111, 30064), (115, 29995), (123, 29959), (128, 29941),

Gene: MintFen_42 Start: 32970, Stop: 32548, Start Num: 38
Candidate Starts for MintFen_42:
(Start: 38 @32970 has 7 MA's), (48, 32940), (Start: 50 @32934 has 7 MA's), (Start: 70 @32886 has 3 MA's), (106, 32733), (123, 32601),

Gene: Moonflower_39 Start: 33232, Stop: 32912, Start Num: 70
Candidate Starts for Moonflower_39:
(Start: 46 @33292 has 1 MA's), (Start: 54 @33274 has 47 MA's), (Start: 70 @33232 has 3 MA's), (108, 33073), (109, 33067), (125, 32938), (126, 32935), (130, 32926),

Gene: Mowgli_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Mowgli_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Mutzi_48 Start: 40895, Stop: 40482, Start Num: 56
Candidate Starts for Mutzi_48:
(42, 40931), (Start: 56 @40895 has 60 MA's), (Start: 70 @40853 has 3 MA's), (84, 40787), (88, 40766), (98, 40724), (109, 40688), (118, 40580),

Gene: Nazo_35 Start: 29476, Stop: 29075, Start Num: 54
Candidate Starts for Nazo_35:
(18, 29623), (23, 29581), (32, 29542), (43, 29506), (Start: 54 @29476 has 47 MA's), (81, 29386), (83, 29377), (90, 29332), (98, 29299), (108, 29269), (125, 29119),

Gene: Necropolis_31 Start: 27344, Stop: 26943, Start Num: 54
Candidate Starts for Necropolis_31:
(22, 27455), (Start: 28 @27425 has 2 MA's), (35, 27401), (Start: 54 @27344 has 47 MA's), (63, 27317), (73, 27287), (Start: 78 @27269 has 1 MA's), (83, 27245), (Start: 85 @27227 has 3 MA's), (90, 27200), (98, 27167), (108, 27137), (125, 26987),

Gene: Nubi_48 Start: 39892, Stop: 39479, Start Num: 56
Candidate Starts for Nubi_48:
(24, 39997), (26, 39991), (31, 39967), (42, 39928), (Start: 56 @39892 has 60 MA's), (Start: 70 @39850 has 3 MA's), (84, 39784), (88, 39763), (98, 39721), (109, 39685), (118, 39577),

Gene: Nyceirae_36 Start: 30000, Stop: 29677, Start Num: 67
Candidate Starts for Nyceirae_36:
(Start: 54 @30033 has 47 MA's), (Start: 67 @30000 has 1 MA's), (73, 29979), (Start: 85 @29919 has 3 MA's), (88, 29904), (103, 29856), (106, 29844), (126, 29700),

Gene: Obliviate_38 Start: 31257, Stop: 30835, Start Num: 38
Candidate Starts for Obliviate_38:
(Start: 38 @31257 has 7 MA's), (48, 31227), (Start: 50 @31221 has 7 MA's), (Start: 70 @31173 has 3 MA's), (106, 31020), (123, 30888), (127, 30873),

Gene: Olga_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for Olga_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Opie_43 Start: 33208, Stop: 32843, Start Num: 54
Candidate Starts for Opie_43:

(Start: 46 @33226 has 1 MA's), (Start: 54 @33208 has 47 MA's), (Start: 70 @33166 has 3 MA's), (89, 33079), (102, 33034), (108, 33007), (109, 33001), (130, 32857),

Gene: Paito_33 Start: 29505, Stop: 29047, Start Num: 56
Candidate Starts for Paito_33:
(Start: 56 @29505 has 60 MA's), (Start: 61 @29487 has 2 MA's), (74, 29448), (80, 29424), (84, 29397), (98, 29334), (114, 29229), (136, 29088),

Gene: PeanutPie_31 Start: 27343, Stop: 26942, Start Num: 54
Candidate Starts for PeanutPie_31:
(22, 27454), (Start: 28 @27424 has 2 MA's), (Start: 54 @27343 has 47 MA's), (63, 27316), (73, 27286), (Start: 78 @27268 has 1 MA's), (80, 27259), (83, 27244), (Start: 85 @27226 has 3 MA's), (90, 27199), (98, 27166), (108, 27136), (125, 26986),

Gene: Periodt_33 Start: 29315, Stop: 28905, Start Num: 56
Candidate Starts for Periodt_33:
(17, 29480), (20, 29444), (21, 29438), (30, 29390), (Start: 56 @29315 has 60 MA's), (Start: 61 @29297 has 2 MA's), (80, 29234), (84, 29207), (88, 29186), (114, 29039), (121, 28976), (122, 28970),

Gene: Petra_39 Start: 31580, Stop: 31194, Start Num: 50
Candidate Starts for Petra_39:
(Start: 38 @31616 has 7 MA's), (48, 31586), (Start: 50 @31580 has 7 MA's), (Start: 70 @31532 has 3 MA's), (106, 31379), (123, 31247), (127, 31232),

Gene: Phalm_31 Start: 27604, Stop: 27203, Start Num: 54
Candidate Starts for Phalm_31:
(22, 27715), (Start: 28 @27685 has 2 MA's), (Start: 54 @27604 has 47 MA's), (63, 27577), (73, 27547), (Start: 78 @27529 has 1 MA's), (80, 27520), (83, 27505), (Start: 85 @27487 has 3 MA's), (90, 27460), (98, 27427), (108, 27397), (125, 27247),

Gene: Phayonce_33 Start: 29388, Stop: 28987, Start Num: 54
Candidate Starts for Phayonce_33:
(Start: 54 @29388 has 47 MA's), (60, 29370), (80, 29304), (81, 29298), (83, 29289), (90, 29244), (98, 29211), (108, 29181),

Gene: Phegasus_31 Start: 27433, Stop: 26951, Start Num: 28
Candidate Starts for Phegasus_31:
(22, 27463), (Start: 28 @27433 has 2 MA's), (Start: 54 @27352 has 47 MA's), (63, 27325), (73, 27295), (Start: 78 @27277 has 1 MA's), (83, 27253), (Start: 85 @27235 has 3 MA's), (90, 27208), (98, 27175), (108, 27145), (125, 26995),

Gene: Phineas_31 Start: 27718, Stop: 27317, Start Num: 54
Candidate Starts for Phineas_31:
(22, 27829), (Start: 28 @27799 has 2 MA's), (35, 27775), (Start: 54 @27718 has 47 MA's), (63, 27691), (73, 27661), (Start: 78 @27643 has 1 MA's), (83, 27619), (Start: 85 @27601 has 3 MA's), (90, 27574), (98, 27541), (108, 27511), (125, 27361),

Gene: Phlop_47 Start: 39973, Stop: 39560, Start Num: 56
Candidate Starts for Phlop_47:
(24, 40078), (26, 40072), (31, 40048), (42, 40009), (Start: 56 @39973 has 60 MA's), (Start: 70 @39931 has 3 MA's), (84, 39865), (88, 39844), (98, 39802), (109, 39766), (118, 39658),

Gene: Phreak_33 Start: 29324, Stop: 28914, Start Num: 56

Candidate Starts for Phreak_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: PhrostedPhlake_44 Start: 32850, Stop: 32413, Start Num: 37
Candidate Starts for PhrostedPhlake_44:
(34, 32859), (Start: 37 @32850 has 1 MA's), (41, 32838), (42, 32835), (44, 32832), (59, 32796), (68, 32772), (82, 32724), (86, 32697), (100, 32646), (132, 32457),

Gene: PinkCoffee_50 Start: 40076, Stop: 39663, Start Num: 56
Candidate Starts for PinkCoffee_50:
(24, 40181), (26, 40175), (31, 40151), (42, 40112), (Start: 56 @40076 has 60 MA's), (Start: 70 @40034 has 3 MA's), (84, 39968), (88, 39947), (98, 39905), (109, 39869), (118, 39761),

Gene: Pipp_38 Start: 31416, Stop: 30997, Start Num: 56
Candidate Starts for Pipp_38:
(16, 31644), (Start: 56 @31416 has 60 MA's), (76, 31350), (88, 31287), (99, 31239), (107, 31215),

Gene: Plagueis_33 Start: 29159, Stop: 28749, Start Num: 56
Candidate Starts for Plagueis_33:
(17, 29324), (20, 29288), (21, 29282), (Start: 56 @29159 has 60 MA's), (Start: 61 @29141 has 2 MA's), (80, 29078), (84, 29051), (114, 28883), (121, 28820), (122, 28814),

Gene: Polkaroo_31 Start: 27361, Stop: 26960, Start Num: 54
Candidate Starts for Polkaroo_31:
(22, 27472), (Start: 28 @27442 has 2 MA's), (Start: 54 @27361 has 47 MA's), (63, 27334), (73, 27304), (Start: 78 @27286 has 1 MA's), (80, 27277), (83, 27262), (Start: 85 @27244 has 3 MA's), (90, 27217), (98, 27184), (108, 27154), (125, 27004),

Gene: Popper_41 Start: 29991, Stop: 29548, Start Num: 45
Candidate Starts for Popper_41:
(Start: 25 @30069 has 2 MA's), (29, 30045), (33, 30033), (Start: 45 @29991 has 1 MA's), (Start: 50 @29979 has 7 MA's), (75, 29910), (79, 29895), (110, 29745), (115, 29652),

Gene: Portcullis_50 Start: 39579, Stop: 39166, Start Num: 56
Candidate Starts for Portcullis_50:
(24, 39684), (26, 39678), (31, 39654), (42, 39615), (Start: 56 @39579 has 60 MA's), (Start: 70 @39537 has 3 MA's), (84, 39471), (88, 39450), (98, 39408), (109, 39372),

Gene: PullumCavea_47 Start: 39973, Stop: 39560, Start Num: 56
Candidate Starts for PullumCavea_47:
(24, 40078), (26, 40072), (31, 40048), (42, 40009), (Start: 56 @39973 has 60 MA's), (Start: 70 @39931 has 3 MA's), (84, 39865), (88, 39844), (98, 39802), (109, 39766), (118, 39658),

Gene: Purky_38 Start: 30118, Stop: 29705, Start Num: 54
Candidate Starts for Purky_38:
(Start: 54 @30118 has 47 MA's), (60, 30100), (Start: 70 @30073 has 3 MA's), (80, 30034), (81, 30028), (83, 30019), (90, 29974), (98, 29941), (108, 29911),

Gene: Pygmy_33 Start: 29186, Stop: 28785, Start Num: 54
Candidate Starts for Pygmy_33:
(Start: 54 @29186 has 47 MA's), (63, 29159), (73, 29129), (Start: 78 @29111 has 1 MA's), (83, 29087), (Start: 85 @29069 has 3 MA's), (90, 29042), (98, 29009), (108, 28979), (125, 28829),

Gene: QuinnAvery_43 Start: 30914, Stop: 30495, Start Num: 50
Candidate Starts for QuinnAvery_43:
(22, 31016), (Start: 38 @30950 has 7 MA's), (Start: 50 @30914 has 7 MA's), (Start: 70 @30860 has 3 MA's), (Start: 78 @30830 has 1 MA's), (Start: 85 @30788 has 3 MA's), (106, 30707), (111, 30668), (115, 30599),

Gene: Rabbs_33 Start: 29407, Stop: 28997, Start Num: 56
Candidate Starts for Rabbs_33:
(17, 29572), (20, 29536), (21, 29530), (Start: 50 @29419 has 7 MA's), (Start: 56 @29407 has 60 MA's), (Start: 61 @29389 has 2 MA's), (84, 29299), (88, 29278), (114, 29131), (122, 29062), (129, 29038),

Gene: RogerDodger_51 Start: 40116, Stop: 39703, Start Num: 56
Candidate Starts for RogerDodger_51:
(42, 40152), (Start: 56 @40116 has 60 MA's), (Start: 70 @40074 has 3 MA's), (84, 40008), (88, 39987), (98, 39945), (109, 39909),

Gene: Salvador_47 Start: 39785, Stop: 39372, Start Num: 56
Candidate Starts for Salvador_47:
(24, 39890), (26, 39884), (31, 39860), (42, 39821), (Start: 56 @39785 has 60 MA's), (Start: 70 @39743 has 3 MA's), (84, 39677), (88, 39656), (98, 39614), (109, 39578), (118, 39470),

Gene: Savbucketdawg_48 Start: 39566, Stop: 39153, Start Num: 56
Candidate Starts for Savbucketdawg_48:
(42, 39602), (Start: 56 @39566 has 60 MA's), (Start: 70 @39524 has 3 MA's), (84, 39458), (88, 39437), (98, 39395), (109, 39359), (118, 39251),

Gene: Schism_45 Start: 30719, Stop: 30426, Start Num: 85
Candidate Starts for Schism_45:
(22, 30947), (Start: 38 @30881 has 7 MA's), (Start: 50 @30845 has 7 MA's), (Start: 70 @30791 has 3 MA's), (Start: 78 @30761 has 1 MA's), (Start: 85 @30719 has 3 MA's), (106, 30638), (111, 30599), (115, 30530),

Gene: ShaboiShabazz_33 Start: 29324, Stop: 28914, Start Num: 56
Candidate Starts for ShaboiShabazz_33:
(17, 29489), (20, 29453), (21, 29447), (30, 29399), (Start: 56 @29324 has 60 MA's), (Start: 61 @29306 has 2 MA's), (80, 29243), (84, 29216), (88, 29195), (114, 29048), (121, 28985), (122, 28979),

Gene: Shipwreck_33 Start: 29161, Stop: 28760, Start Num: 54
Candidate Starts for Shipwreck_33:
(Start: 54 @29161 has 47 MA's), (63, 29134), (73, 29104), (Start: 78 @29086 has 1 MA's), (83, 29062), (Start: 85 @29044 has 3 MA's), (90, 29017), (98, 28984), (108, 28954), (125, 28804),

Gene: Sizemore_33 Start: 29325, Stop: 28915, Start Num: 56
Candidate Starts for Sizemore_33:
(17, 29490), (20, 29454), (21, 29448), (Start: 56 @29325 has 60 MA's), (Start: 61 @29307 has 2 MA's), (80, 29244), (84, 29217), (98, 29154), (114, 29049), (121, 28986), (122, 28980), (129, 28956),

Gene: SmokingBunny_48 Start: 39878, Stop: 39465, Start Num: 56
Candidate Starts for SmokingBunny_48:
(24, 39983), (26, 39977), (31, 39953), (42, 39914), (Start: 56 @39878 has 60 MA's), (Start: 70 @39836 has 3 MA's), (84, 39770), (88, 39749), (98, 39707), (109, 39671), (118, 39563),

Gene: Sonah_31 Start: 27333, Stop: 26932, Start Num: 54
Candidate Starts for Sonah_31:
(22, 27444), (Start: 28 @27414 has 2 MA's), (Start: 54 @27333 has 47 MA's), (63, 27306), (73, 27276), (Start: 78 @27258 has 1 MA's), (80, 27249), (83, 27234), (Start: 85 @27216 has 3 MA's), (90, 27189), (98, 27156), (108, 27126), (125, 26976),

Gene: StevieRay_31 Start: 27312, Stop: 26911, Start Num: 54
Candidate Starts for StevieRay_31:
(22, 27423), (Start: 28 @27393 has 2 MA's), (Start: 54 @27312 has 47 MA's), (63, 27285), (73, 27255), (Start: 78 @27237 has 1 MA's), (80, 27228), (83, 27213), (Start: 85 @27195 has 3 MA's), (90, 27168), (98, 27135), (108, 27105), (125, 26955),

Gene: StressBall_31 Start: 27604, Stop: 27203, Start Num: 54
Candidate Starts for StressBall_31:
(22, 27715), (Start: 28 @27685 has 2 MA's), (Start: 54 @27604 has 47 MA's), (63, 27577), (73, 27547), (Start: 78 @27529 has 1 MA's), (80, 27520), (83, 27505), (Start: 85 @27487 has 3 MA's), (90, 27460), (98, 27427), (108, 27397), (125, 27247),

Gene: Sweets_33 Start: 29319, Stop: 28909, Start Num: 56
Candidate Starts for Sweets_33:
(17, 29484), (20, 29448), (21, 29442), (30, 29394), (Start: 56 @29319 has 60 MA's), (Start: 61 @29301 has 2 MA's), (80, 29238), (84, 29211), (88, 29190), (114, 29043), (121, 28980), (122, 28974),

Gene: Taheera_33 Start: 29454, Stop: 29032, Start Num: 50
Candidate Starts for Taheera_33:
(17, 29607), (20, 29571), (21, 29565), (Start: 50 @29454 has 7 MA's), (Start: 56 @29442 has 60 MA's), (Start: 61 @29424 has 2 MA's), (80, 29361), (84, 29334), (88, 29313), (114, 29166), (122, 29097), (129, 29073), (134, 29052),

Gene: TaronosaurasRx_42 Start: 31610, Stop: 31248, Start Num: 54
Candidate Starts for TaronosaurasRx_42:
(Start: 46 @31628 has 1 MA's), (Start: 54 @31610 has 47 MA's), (Start: 70 @31568 has 3 MA's), (106, 31421), (109, 31403), (130, 31262),

Gene: Techage_31 Start: 27370, Stop: 26969, Start Num: 54
Candidate Starts for Techage_31:
(22, 27481), (Start: 28 @27451 has 2 MA's), (35, 27427), (Start: 54 @27370 has 47 MA's), (63, 27343), (73, 27313), (Start: 78 @27295 has 1 MA's), (83, 27271), (Start: 85 @27253 has 3 MA's), (90, 27226), (98, 27193), (108, 27163), (125, 27013),

Gene: Terror_33 Start: 29454, Stop: 29032, Start Num: 50
Candidate Starts for Terror_33:
(17, 29607), (20, 29571), (21, 29565), (Start: 50 @29454 has 7 MA's), (Start: 56 @29442 has 60 MA's), (Start: 61 @29424 has 2 MA's), (80, 29361), (84, 29334), (88, 29313), (114, 29166), (122, 29097), (129, 29073), (134, 29052),

Gene: Thespis_31 Start: 27421, Stop: 26939, Start Num: 28
Candidate Starts for Thespis_31:
(22, 27451), (Start: 28 @27421 has 2 MA's), (Start: 54 @27340 has 47 MA's), (63, 27313), (73, 27283), (Start: 78 @27265 has 1 MA's), (80, 27256), (83, 27241), (Start: 85 @27223 has 3 MA's), (90, 27196), (98, 27163), (108, 27133), (125, 26983),

Gene: Togo_47 Start: 39878, Stop: 39465, Start Num: 56

Candidate Starts for Togo_47:
(24, 39983), (26, 39977), (31, 39953), (42, 39914), (Start: 56 @39878 has 60 MA's), (Start: 70 @39836 has 3 MA's), (84, 39770), (88, 39749), (98, 39707), (109, 39671), (118, 39563),

Gene: TomBrady_33 Start: 29325, Stop: 28915, Start Num: 56
Candidate Starts for TomBrady_33:
(17, 29490), (20, 29454), (21, 29448), (30, 29400), (Start: 56 @29325 has 60 MA's), (Start: 61 @29307 has 2 MA's), (80, 29244), (84, 29217), (88, 29196), (114, 29049), (121, 28986), (122, 28980),

Gene: Twister6_50 Start: 39679, Stop: 39266, Start Num: 56
Candidate Starts for Twister6_50:
(24, 39784), (26, 39778), (31, 39754), (42, 39715), (Start: 56 @39679 has 60 MA's), (Start: 70 @39637 has 3 MA's), (84, 39571), (88, 39550), (98, 39508), (109, 39472),

Gene: Typha_53 Start: 41198, Stop: 40797, Start Num: 47
Candidate Starts for Typha_53:
(Start: 47 @41198 has 2 MA's), (Start: 56 @41177 has 60 MA's), (73, 41123), (84, 41069), (92, 41027), (106, 40988), (108, 40976), (114, 40901), (119, 40847), (120, 40841),

Gene: Valary_50 Start: 40721, Stop: 40308, Start Num: 56
Candidate Starts for Valary_50:
(42, 40757), (Start: 56 @40721 has 60 MA's), (Start: 70 @40679 has 3 MA's), (84, 40613), (88, 40592), (98, 40550), (109, 40514), (118, 40406),

Gene: VanDeWege_51 Start: 40013, Stop: 39600, Start Num: 56
Candidate Starts for VanDeWege_51:
(42, 40049), (Start: 56 @40013 has 60 MA's), (Start: 70 @39971 has 3 MA's), (84, 39905), (88, 39884), (98, 39842), (109, 39806), (118, 39698),

Gene: Venti_31 Start: 27347, Stop: 26946, Start Num: 54
Candidate Starts for Venti_31:
(22, 27458), (Start: 28 @27428 has 2 MA's), (35, 27404), (Start: 54 @27347 has 47 MA's), (63, 27320), (73, 27290), (Start: 78 @27272 has 1 MA's), (83, 27248), (Start: 85 @27230 has 3 MA's), (90, 27203), (98, 27170), (108, 27140), (125, 26990),

Gene: Vidya_31 Start: 27380, Stop: 26979, Start Num: 54
Candidate Starts for Vidya_31:
(22, 27491), (Start: 28 @27461 has 2 MA's), (35, 27437), (Start: 54 @27380 has 47 MA's), (63, 27353), (73, 27323), (Start: 78 @27305 has 1 MA's), (83, 27281), (Start: 85 @27263 has 3 MA's), (90, 27236), (98, 27203), (108, 27173), (125, 27023),

Gene: Willsammy_30 Start: 27087, Stop: 26686, Start Num: 54
Candidate Starts for Willsammy_30:
(22, 27198), (Start: 28 @27168 has 2 MA's), (Start: 54 @27087 has 47 MA's), (63, 27060), (73, 27030), (Start: 78 @27012 has 1 MA's), (80, 27003), (83, 26988), (Start: 85 @26970 has 3 MA's), (90, 26943), (98, 26910), (108, 26880), (125, 26730),

Gene: Wizard_47 Start: 39877, Stop: 39506, Start Num: 70
Candidate Starts for Wizard_47:
(42, 39955), (Start: 56 @39919 has 60 MA's), (Start: 70 @39877 has 3 MA's), (84, 39811), (88, 39790), (98, 39748), (109, 39712), (118, 39604),

Gene: Zaheer_43 Start: 31154, Stop: 30861, Start Num: 85

Candidate Starts for Zaheer_43:
(22, 31382), (Start: 38 @31316 has 7 MA's), (Start: 50 @31280 has 7 MA's), (Start: 70 @31226 has 3 MA's), (Start: 78 @31196 has 1 MA's), (Start: 85 @31154 has 3 MA's), (106, 31073), (111, 31034), (115, 30965),

Gene: Zarbodnamra_41 Start: 32378, Stop: 31956, Start Num: 38
Candidate Starts for Zarbodnamra_41:
(Start: 38 @32378 has 7 MA's), (48, 32348), (Start: 50 @32342 has 7 MA's), (Start: 70 @32294 has 3 MA's), (106, 32141), (123, 32009),

Gene: Zilizebeth_31 Start: 27379, Stop: 26978, Start Num: 54
Candidate Starts for Zilizebeth_31:
(22, 27490), (Start: 28 @27460 has 2 MA's), (35, 27436), (Start: 54 @27379 has 47 MA's), (63, 27352), (73, 27322), (Start: 78 @27304 has 1 MA's), (83, 27280), (Start: 85 @27262 has 3 MA's), (90, 27235), (98, 27202), (108, 27172), (125, 27022),