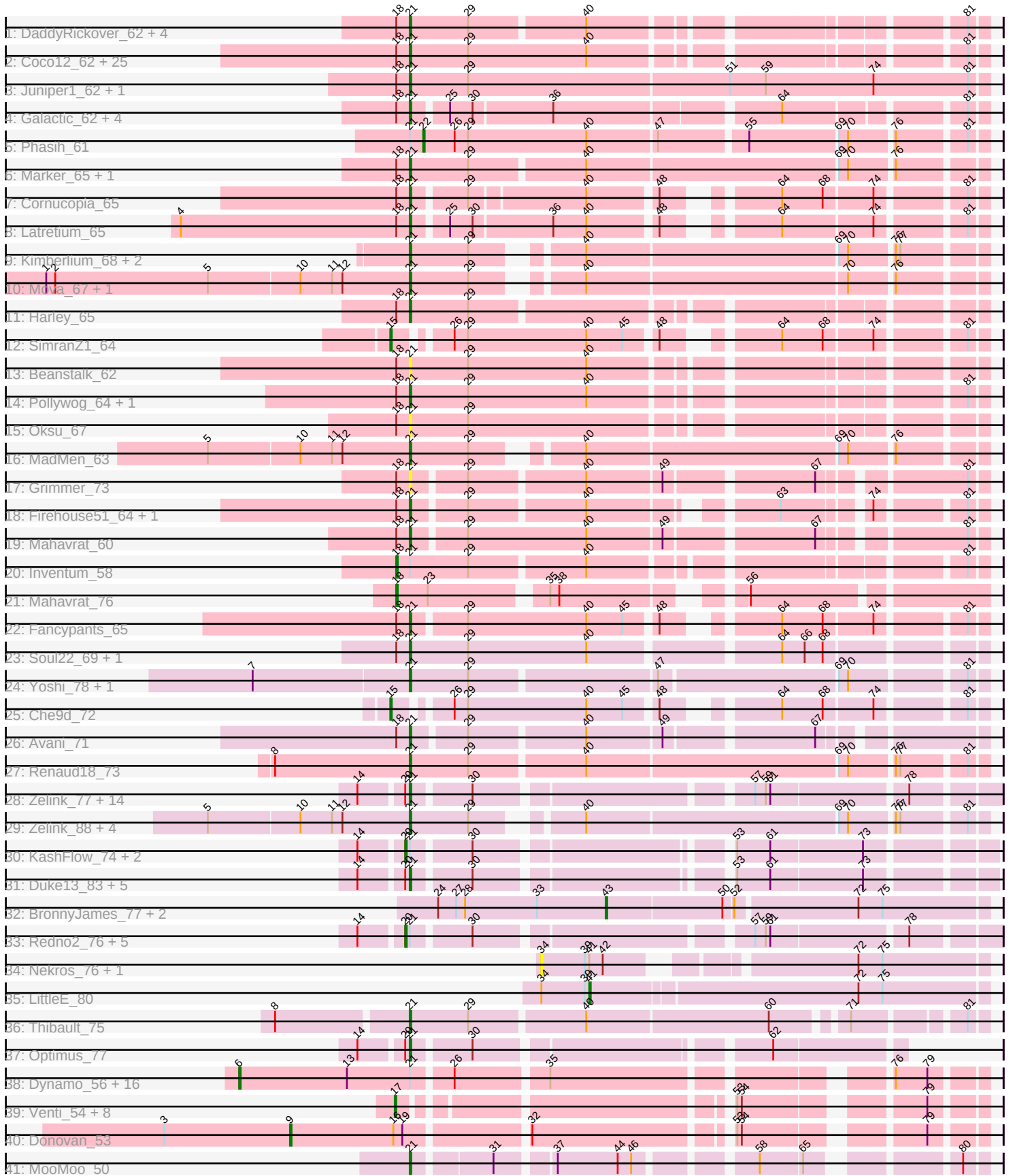


Pham 280181



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 280181 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280181 has 140 members, 20 are drafts.

Phages represented in each track:

- Track 1 : DaddyRickover_62, Sassafras_61, RedBird_61, Aubs_63, Dorothy_61
- Track 2 : Coco12_62, Velveteen_58, Brookers_60, GUmble_61, DRBy19_66, Eradicator_56, BuzzLyseyear_69, Yorick_62, BigPhil_59, Lizziana_69, LilMoolah_61, IbOuu_64, Sarma624_61, Che8_68, Saal_65, Guppsters_63, Gorge_67, OlympiaSaint_65, Job42_65, Cerasum_59, James_67, Mattes_67, Nivrat_59, Philus_66, Tchotchke_62, Kingsley_60
- Track 3 : Juniper1_62, Estave1_66
- Track 4 : Galactic_62, NewHope4_64, LunaBlu_65, Ibhubesi_63, Polo2Bam_69
- Track 5 : Phasih_61
- Track 6 : Marker_65, Topiatin_70
- Track 7 : Cornucopia_65
- Track 8 : Latretium_65
- Track 9 : Kimberlium_68, MulchExplorer_71, QuickMath_67
- Track 10 : Mova_67, Madiba_64
- Track 11 : Harley_65
- Track 12 : SimranZ1_64
- Track 13 : Beanstalk_62
- Track 14 : Pollywog_64, Royals2015_66
- Track 15 : Oksu_67
- Track 16 : MadMen_63
- Track 17 : Grimmer_73
- Track 18 : Firehouse51_64, Mutaforma13_67
- Track 19 : Mahavrat_60
- Track 20 : Inventum_58
- Track 21 : Mahavrat_76
- Track 22 : Fancypants_65
- Track 23 : Soul22_69, GigiOuiOui_59
- Track 24 : Yoshi_78, ThetaBob_70
- Track 25 : Che9d_72
- Track 26 : Avani_71
- Track 27 : Renaud18_73
- Track 28 : Zelink_77, Kalah2_74, NihilNomen_80, Ejimix_79, Beem_79, Phoebe_82, JuicyJay_77, DmpstrDiver_80, Bombitas_69, EricMillard_78, Dallas_78, ThreeRngTarjay_77, Bagrid_80, Odette_78, Hughesyang_79
- Track 29 : Zelink_88, Klein_91, Constella_76, Wanda_95, Xiaokay_80
- Track 30 : KashFlow_74, BAKA_84, Minerva_82

- Track 31 : Duke13_83, Xiaokay_70, Thibault_67, Pound_80, Marleymoo_69, Constella_66
- Track 32 : BronnyJames_77, Omega_82, Shaboozey_76
- Track 33 : Redno2_76, Dove_65, Yeet_74, HokkenD_71, Halley_81, Schatzie_75
- Track 34 : Nekros_76, Nibley_70
- Track 35 : LittleE_80
- Track 36 : Thibault_75
- Track 37 : Optimus_77
- Track 38 : Dynamo_56, Malithi_57, Bogie_60, Glaske_55, Willsammy_56, Brusacoram_58, Gavriela_56, Atcoo_58, Megiddo_56, KilKor_56, Bobi_76, Phalm_56, HUHilltop_59, StevieRay_61, Necropolis_55, Sonah_57, StressBall_56
- Track 39 : Venti_54, Kari_53, FirstPlacePfu_55, Etoile_53, Langerak_54, Chubbello_53, Fishburne_53, Polkaroo_56, Bartholomew_53
- Track 40 : Donovan_53
- Track 41 : MooMoo_50

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

The start number called the most often in the published annotations is 21, it was called in 79 of the 120 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aubs_63, Avani_71, Bagrid_80, Beanstalk_62, Beem_79, BigPhil_59, Bombitas_69, Brookers_60, BuzzLyseyear_69, Cerasum_59, Che8_68, Coco12_62, Constella_66, Constella_76, Cornucopia_65, DRBy19_66, DaddyRickover_62, Dallas_78, DmpstrDiver_80, Dorothy_61, Duke13_83, Ejimix_79, Eradicator_56, EricMillard_78, Estave1_66, Fancypants_65, Firehouse51_64, GUmbie_61, Galactic_62, GigiOuiOui_59, Gorge_67, Grimmer_73, Guppsters_63, Harley_65, Hughesyang_79, IbOuu_64, Ibhubesi_63, James_67, Job42_65, JuicyJay_77, Juniper1_62, Kalah2_74, Kimberlium_68, Kingsley_60, Klein_91, Latretium_65, LilMoolah_61, Lizziana_69, LunaBlu_65, MadMen_63, Madiba_64, Mahavrat_60, Marker_65, Marleymoo_69, Mattes_67, MooMoo_50, Mova_67, MulchExplorer_71, Mutaforma13_67, NewHope4_64, NihilNomen_80, Nivrat_59, Odette_78, Oksu_67, OlympiaSaint_65, Optimus_77, Philus_66, Phoebus_82, Pollywog_64, Polo2Bam_69, Pound_80, QuickMath_67, RedBird_61, Renaud18_73, Royals2015_66, Saal_65, Sarma624_61, Sassafras_61, Soul22_69, Tchotchke_62, ThetaBob_70, Thibault_67, Thibault_75, ThreeRngTarjay_77, Topiatin_70, Velveteen_58, Wanda_95, Xiaokay_70, Xiaokay_80, Yorick_62, Yoshi_78, Zelink_77, Zelink_88,

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

- Atcoo_58, BAKA_84, Bobi_76, Bogie_60, Brusacoram_58, Dove_65, Dynamo_56, Gavriela_56, Glaske_55, HUHilltop_59, Halley_81, HokkenD_71, Inventum_58, KashFlow_74, KilKor_56, Malithi_57, Megiddo_56, Minerva_82, Necropolis_55, Phalm_56, Phasih_61, Redno2_76, Schatzie_75, Sonah_57, StevieRay_61, StressBall_56, Willsammy_56, Yeet_74,

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

- Bartholomew_53, BronnyJames_77, Che9d_72, Chubbello_53, Donovan_53, Etoile_53, FirstPlacePfu_55, Fishburne_53, Kari_53, Langerak_54, LittleE_80, Mahavrat_76, Nekros_76, Nibley_70, Omega_82, Polkaroo_56, Shaboozey_76,

SimranZ1_64, Venti_54,

Summary by start number:

Start 6:

- Found in 17 of 140 (12.1%) of genes in pham
- Manual Annotations of this start: 17 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atcoo_58 (P1), Bobi_76 (F1), Bogie_60 (P1), Brusacoram_58 (P1), Dynamo_56 (P1), Gavriela_56 (P1), Glaske_55 (P1), HUHilltop_59 (P1), KilKor_56 (P1), Malithi_57 (P1), Megiddo_56 (P1), Necropolis_55 (P1), Phalm_56 (P1), Sonah_57 (P1), StevieRay_61 (P1), StressBall_56 (P1), Willsammy_56 (P1),

Start 9:

- Found in 1 of 140 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Donovan_53 (P1),

Start 15:

- Found in 2 of 140 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Che9d_72 (F2), SimranZ1_64 (F1),

Start 17:

- Found in 9 of 140 (6.4%) of genes in pham
- Manual Annotations of this start: 7 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bartholomew_53 (P1), Chubbello_53 (P1), Etoile_53 (P1), FirstPlacePfu_55 (P1), Fishburne_53 (P1), Kari_53 (P1), Langerak_54 (P1), Polkaroo_56 (P1), Venti_54 (P1),

Start 18:

- Found in 57 of 140 (40.7%) of genes in pham
- Manual Annotations of this start: 2 of 120
- Called 3.5% of time when present
- Phage (with cluster) where this start called: Inventum_58 (F1), Mahavrat_76 (F1),

Start 20:

- Found in 31 of 140 (22.1%) of genes in pham
- Manual Annotations of this start: 9 of 120
- Called 29.0% of time when present
- Phage (with cluster) where this start called: BAKA_84 (J), Dove_65 (J), Halley_81 (J), HokkenD_71 (J), KashFlow_74 (J), Minerva_82 (J), Redno2_76 (J), Schatzie_75 (J), Yeet_74 (J),

Start 21:

- Found in 121 of 140 (86.4%) of genes in pham
- Manual Annotations of this start: 79 of 120
- Called 76.9% of time when present

- Phage (with cluster) where this start called: Aubs_63 (F1), Avani_71 (F2), Bagrid_80 (J), Beanstalk_62 (F1), Beem_79 (J), BigPhil_59 (F1), Bombitas_69 (J), Brookers_60 (F1), BuzzLyseyear_69 (F1), Cerasum_59 (F1), Che8_68 (F1), Coco12_62 (F1), Constella_66 (J), Constella_76 (J), Cornucopia_65 (F1), DRBy19_66 (F1), DaddyRickover_62 (F1), Dallas_78 (J), DmpstrDiver_80 (J), Dorothy_61 (F1), Duke13_83 (J), Ejimix_79 (J), Eradicator_56 (F1), EricMillard_78 (J), Estave1_66 (F1), Fancypants_65 (F1), Firehouse51_64 (F1), GUmbe_61 (F1), Galactic_62 (F1), GigiOuiOui_59 (F1), Gorge_67 (F1), Grimmer_73 (F1), Guppsters_63 (F1), Harley_65 (F1), Hughesyang_79 (J), IbOuu_64 (F1), lbhubesi_63 (F1), James_67 (F1), Job42_65 (F1), JuicyJay_77 (J), Juniper1_62 (F1), Kalah2_74 (J), Kimberlium_68 (F1), Kingsley_60 (F1), Klein_91 (J), Latretium_65 (F1), LilMoolah_61 (F1), Lizziana_69 (F1), LunaBlu_65 (F1), MadMen_63 (F1), Madiba_64 (F1), Mahavrat_60 (F1), Marker_65 (F1), Marleymoo_69 (J), Mattes_67 (F1), MooMoo_50 (singleton), Mova_67 (F1), MulchExplorer_71 (F1), Mutaforma13_67 (F1), NewHope4_64 (F1), NihilNomen_80 (J), Nivrat_59 (F1), Odette_78 (J), Oksu_67 (F1), OlympiaSaint_65 (F1), Optimus_77 (J), Philus_66 (F1), Phoebus_82 (J), Pollywog_64 (F1), Polo2Bam_69 (F1), Pound_80 (J), QuickMath_67 (F1), RedBird_61 (F1), Renaud18_73 (F4), Royals2015_66 (F1), Saal_65 (F1), Sarma624_61 (F1), Sassafras_61 (F1), Soul22_69 (F2), Tchotchke_62 (F1), ThetaBob_70 (F4), Thibault_67 (J), Thibault_75 (J), ThreeRngTarjay_77 (J), Topiatin_70 (F1), Velveteen_58 (F1), Wanda_95 (J), Xiaokay_70 (J), Xiaokay_80 (J), Yorick_62 (F1), Yoshi_78 (F2), Zelink_77 (J), Zelink_88 (J),

Start 22:

- Found in 1 of 140 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phasih_61 (F1),

Start 34:

- Found in 3 of 140 (2.1%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Nekros_76 (J), Nibley_70 (J),

Start 41:

- Found in 3 of 140 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 33.3% of time when present
- Phage (with cluster) where this start called: LittleE_80 (J),

Start 43:

- Found in 3 of 140 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BronnyJames_77 (J), Omega_82 (J), Shaboozey_76 (J),

Summary by clusters:

There are 6 clusters represented in this pham: F1, F2, P1, F4, J, singleton,

Info for manual annotations of cluster F1:

- Start number 6 was manually annotated 1 time for cluster F1.
- Start number 15 was manually annotated 1 time for cluster F1.
- Start number 18 was manually annotated 2 times for cluster F1.
- Start number 21 was manually annotated 50 times for cluster F1.
- Start number 22 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 15 was manually annotated 1 time for cluster F2.
- Start number 21 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 21 was manually annotated 2 times for cluster F4.

Info for manual annotations of cluster J:

- Start number 20 was manually annotated 9 times for cluster J.
- Start number 21 was manually annotated 23 times for cluster J.
- Start number 41 was manually annotated 1 time for cluster J.
- Start number 43 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster P1:

- Start number 6 was manually annotated 16 times for cluster P1.
- Start number 9 was manually annotated 1 time for cluster P1.
- Start number 17 was manually annotated 7 times for cluster P1.

Gene Information:

Gene: Atcoo_58 Start: 40217, Stop: 40654, Start Num: 6

Candidate Starts for Atcoo_58:

(Start: 6 @40217 has 17 MA's), (13, 40289), (Start: 21 @40331 has 79 MA's), (26, 40355), (35, 40412), (76, 40601), (79, 40622),

Gene: Aubs_63 Start: 41384, Stop: 41719, Start Num: 21

Candidate Starts for Aubs_63:

(Start: 18 @41375 has 2 MA's), (Start: 21 @41384 has 79 MA's), (29, 41423), (40, 41495), (81, 41708),

Gene: Avani_71 Start: 41759, Stop: 42094, Start Num: 21

Candidate Starts for Avani_71:

(Start: 18 @41750 has 2 MA's), (Start: 21 @41759 has 79 MA's), (29, 41792), (40, 41864), (49, 41912), (67, 41999),

Gene: BAKA_84 Start: 53281, Stop: 52940, Start Num: 20

Candidate Starts for BAKA_84:

(14, 53308), (Start: 20 @53281 has 9 MA's), (Start: 21 @53278 has 79 MA's), (30, 53242), (53, 53095), (61, 53074), (73, 53014),

Gene: Bagrid_80 Start: 51928, Stop: 51584, Start Num: 21

Candidate Starts for Bagrid_80:

(14, 51958), (Start: 20 @51931 has 9 MA's), (Start: 21 @51928 has 79 MA's), (30, 51892), (57, 51730), (59, 51724), (61, 51721), (78, 51637),

Gene: Bartholomew_53 Start: 36260, Stop: 36583, Start Num: 17

Candidate Starts for Bartholomew_53:

(Start: 17 @36260 has 7 MA's), (53, 36449), (54, 36452), (79, 36551),

Gene: Beanstalk_62 Start: 39767, Stop: 40108, Start Num: 21

Candidate Starts for Beanstalk_62:

(Start: 18 @39758 has 2 MA's), (Start: 21 @39767 has 79 MA's), (29, 39806), (40, 39884),

Gene: Beem_79 Start: 52789, Stop: 52445, Start Num: 21

Candidate Starts for Beem_79:

(14, 52819), (Start: 20 @52792 has 9 MA's), (Start: 21 @52789 has 79 MA's), (30, 52753), (57, 52591), (59, 52585), (61, 52582), (78, 52498),

Gene: BigPhil_59 Start: 37375, Stop: 37716, Start Num: 21

Candidate Starts for BigPhil_59:

(Start: 18 @37366 has 2 MA's), (Start: 21 @37375 has 79 MA's), (29, 37414), (40, 37492), (81, 37705),

Gene: Bobi_76 Start: 47153, Stop: 47593, Start Num: 6

Candidate Starts for Bobi_76:

(Start: 6 @47153 has 17 MA's), (13, 47225), (Start: 21 @47267 has 79 MA's), (26, 47291), (35, 47348), (76, 47540), (79, 47561),

Gene: Bogie_60 Start: 39977, Stop: 40417, Start Num: 6

Candidate Starts for Bogie_60:

(Start: 6 @39977 has 17 MA's), (13, 40049), (Start: 21 @40091 has 79 MA's), (26, 40115), (35, 40172), (76, 40364), (79, 40385),

Gene: Bombitas_69 Start: 49952, Stop: 49608, Start Num: 21

Candidate Starts for Bombitas_69:

(14, 49982), (Start: 20 @49955 has 9 MA's), (Start: 21 @49952 has 79 MA's), (30, 49916), (57, 49754), (59, 49748), (61, 49745), (78, 49661),

Gene: BronnyJames_77 Start: 47876, Stop: 47634, Start Num: 43

Candidate Starts for BronnyJames_77:

(24, 47987), (27, 47975), (28, 47969), (33, 47921), (Start: 43 @47876 has 1 MA's), (50, 47801), (52, 47795), (72, 47717), (75, 47702),

Gene: Brookers_60 Start: 40326, Stop: 40667, Start Num: 21

Candidate Starts for Brookers_60:

(Start: 18 @40317 has 2 MA's), (Start: 21 @40326 has 79 MA's), (29, 40365), (40, 40443), (81, 40656),

Gene: Brusacoram_58 Start: 38760, Stop: 39197, Start Num: 6

Candidate Starts for Brusacoram_58:

(Start: 6 @38760 has 17 MA's), (13, 38832), (Start: 21 @38874 has 79 MA's), (26, 38898), (35, 38955), (76, 39144), (79, 39165),

Gene: BuzzLyseyear_69 Start: 42383, Stop: 42724, Start Num: 21

Candidate Starts for BuzzLyseyear_69:

(Start: 18 @42374 has 2 MA's), (Start: 21 @42383 has 79 MA's), (29, 42422), (40, 42500), (81, 42713),

Gene: Cerasum_59 Start: 37393, Stop: 37734, Start Num: 21

Candidate Starts for Cerasum_59:

(Start: 18 @37384 has 2 MA's), (Start: 21 @37393 has 79 MA's), (29, 37432), (40, 37510), (81, 37723),

Gene: Che8_68 Start: 43879, Stop: 44220, Start Num: 21

Candidate Starts for Che8_68:

(Start: 18 @43870 has 2 MA's), (Start: 21 @43879 has 79 MA's), (29, 43918), (40, 43996), (81, 44209),

Gene: Che9d_72 Start: 41100, Stop: 41432, Start Num: 15

Candidate Starts for Che9d_72:

(Start: 15 @41100 has 2 MA's), (26, 41130), (29, 41139), (40, 41217), (45, 41241), (48, 41259), (64, 41313), (68, 41340), (74, 41370), (81, 41421),

Gene: Chubbello_53 Start: 36256, Stop: 36579, Start Num: 17

Candidate Starts for Chubbello_53:

(Start: 17 @36256 has 7 MA's), (53, 36445), (54, 36448), (79, 36547),

Gene: Coco12_62 Start: 41450, Stop: 41791, Start Num: 21

Candidate Starts for Coco12_62:

(Start: 18 @41441 has 2 MA's), (Start: 21 @41450 has 79 MA's), (29, 41489), (40, 41567), (81, 41780),

Gene: Constella_76 Start: 51061, Stop: 51402, Start Num: 21

Candidate Starts for Constella_76:

(5, 50929), (10, 50989), (11, 51010), (12, 51016), (Start: 21 @51061 has 79 MA's), (29, 51100), (40, 51154), (69, 51316), (70, 51322), (76, 51349), (77, 51352), (81, 51391),

Gene: Constella_66 Start: 46926, Stop: 46588, Start Num: 21

Candidate Starts for Constella_66:

(14, 46956), (Start: 20 @46929 has 9 MA's), (Start: 21 @46926 has 79 MA's), (30, 46890), (53, 46743), (61, 46722), (73, 46662),

Gene: Cornucopia_65 Start: 41687, Stop: 42007, Start Num: 21

Candidate Starts for Cornucopia_65:

(Start: 18 @41678 has 2 MA's), (Start: 21 @41687 has 79 MA's), (29, 41720), (40, 41792), (48, 41834), (64, 41888), (68, 41915), (74, 41945), (81, 41996),

Gene: DRBy19_66 Start: 42134, Stop: 42475, Start Num: 21

Candidate Starts for DRBy19_66:

(Start: 18 @42125 has 2 MA's), (Start: 21 @42134 has 79 MA's), (29, 42173), (40, 42251), (81, 42464),

Gene: DaddyRickover_62 Start: 41176, Stop: 41511, Start Num: 21

Candidate Starts for DaddyRickover_62:

(Start: 18 @41167 has 2 MA's), (Start: 21 @41176 has 79 MA's), (29, 41215), (40, 41287), (81, 41500),

Gene: Dallas_78 Start: 51710, Stop: 51366, Start Num: 21

Candidate Starts for Dallas_78:

(14, 51740), (Start: 20 @51713 has 9 MA's), (Start: 21 @51710 has 79 MA's), (30, 51674), (57, 51512), (59, 51506), (61, 51503), (78, 51419),

Gene: DmpstrDiver_80 Start: 52136, Stop: 51792, Start Num: 21

Candidate Starts for DmpstrDiver_80:

(14, 52166), (Start: 20 @52139 has 9 MA's), (Start: 21 @52136 has 79 MA's), (30, 52100), (57, 51938), (59, 51932), (61, 51929), (78, 51845),

Gene: Donovan_53 Start: 36400, Stop: 36801, Start Num: 9

Candidate Starts for Donovan_53:

(3, 36316), (Start: 9 @36400 has 1 MA's), (16, 36469), (19, 36475), (32, 36547), (53, 36667), (54, 36670), (79, 36769),

Gene: Dorothy_61 Start: 40350, Stop: 40685, Start Num: 21

Candidate Starts for Dorothy_61:

(Start: 18 @40341 has 2 MA's), (Start: 21 @40350 has 79 MA's), (29, 40389), (40, 40461), (81, 40674),

Gene: Dove_65 Start: 48221, Stop: 47874, Start Num: 20

Candidate Starts for Dove_65:

(14, 48248), (Start: 20 @48221 has 9 MA's), (Start: 21 @48218 has 79 MA's), (30, 48182), (57, 48020), (59, 48014), (61, 48011), (78, 47927),

Gene: Duke13_83 Start: 52490, Stop: 52152, Start Num: 21

Candidate Starts for Duke13_83:

(14, 52520), (Start: 20 @52493 has 9 MA's), (Start: 21 @52490 has 79 MA's), (30, 52454), (53, 52307), (61, 52286), (73, 52226),

Gene: Dynamo_56 Start: 38011, Stop: 38451, Start Num: 6

Candidate Starts for Dynamo_56:

(Start: 6 @38011 has 17 MA's), (13, 38083), (Start: 21 @38125 has 79 MA's), (26, 38149), (35, 38206), (76, 38398), (79, 38419),

Gene: Ejimix_79 Start: 53578, Stop: 53234, Start Num: 21

Candidate Starts for Ejimix_79:

(14, 53608), (Start: 20 @53581 has 9 MA's), (Start: 21 @53578 has 79 MA's), (30, 53542), (57, 53380), (59, 53374), (61, 53371), (78, 53287),

Gene: Eradicator_56 Start: 39233, Stop: 39574, Start Num: 21

Candidate Starts for Eradicator_56:

(Start: 18 @39224 has 2 MA's), (Start: 21 @39233 has 79 MA's), (29, 39272), (40, 39350), (81, 39563),

Gene: EricMillard_78 Start: 52781, Stop: 52437, Start Num: 21

Candidate Starts for EricMillard_78:

(14, 52811), (Start: 20 @52784 has 9 MA's), (Start: 21 @52781 has 79 MA's), (30, 52745), (57, 52583), (59, 52577), (61, 52574), (78, 52490),

Gene: Estave1_66 Start: 42262, Stop: 42642, Start Num: 21

Candidate Starts for Estave1_66:

(Start: 18 @42253 has 2 MA's), (Start: 21 @42262 has 79 MA's), (29, 42301), (51, 42472), (59, 42496), (74, 42568), (81, 42631),

Gene: Etoile_53 Start: 36260, Stop: 36583, Start Num: 17

Candidate Starts for Etoile_53:

(Start: 17 @36260 has 7 MA's), (53, 36449), (54, 36452), (79, 36551),

Gene: Fancypants_65 Start: 41674, Stop: 42000, Start Num: 21

Candidate Starts for Fancypants_65:

(Start: 18 @41665 has 2 MA's), (Start: 21 @41674 has 79 MA's), (29, 41707), (40, 41785), (45, 41809), (48, 41827), (64, 41881), (68, 41908), (74, 41938), (81, 41989),

Gene: Firehouse51_64 Start: 44558, Stop: 44872, Start Num: 21

Candidate Starts for Firehouse51_64:

(Start: 18 @44549 has 2 MA's), (Start: 21 @44558 has 79 MA's), (29, 44591), (40, 44663), (63, 44762), (74, 44810), (81, 44861),

Gene: FirstPlacePfu_55 Start: 36292, Stop: 36615, Start Num: 17

Candidate Starts for FirstPlacePfu_55:

(Start: 17 @36292 has 7 MA's), (53, 36481), (54, 36484), (79, 36583),

Gene: Fishburne_53 Start: 36260, Stop: 36583, Start Num: 17

Candidate Starts for Fishburne_53:

(Start: 17 @36260 has 7 MA's), (53, 36449), (54, 36452), (79, 36551),

Gene: GUmbie_61 Start: 40460, Stop: 40801, Start Num: 21

Candidate Starts for GUmbie_61:

(Start: 18 @40451 has 2 MA's), (Start: 21 @40460 has 79 MA's), (29, 40499), (40, 40577), (81, 40790),

Gene: Galactic_62 Start: 40920, Stop: 41261, Start Num: 21

Candidate Starts for Galactic_62:

(Start: 18 @40911 has 2 MA's), (Start: 21 @40920 has 79 MA's), (25, 40941), (30, 40956), (36, 41007), (64, 41145), (81, 41250),

Gene: Gavriela_56 Start: 38975, Stop: 39412, Start Num: 6

Candidate Starts for Gavriela_56:

(Start: 6 @38975 has 17 MA's), (13, 39047), (Start: 21 @39089 has 79 MA's), (26, 39113), (35, 39170), (76, 39359), (79, 39380),

Gene: GigiOuiOui_59 Start: 39900, Stop: 40250, Start Num: 21

Candidate Starts for GigiOuiOui_59:

(Start: 18 @39891 has 2 MA's), (Start: 21 @39900 has 79 MA's), (29, 39939), (40, 40017), (64, 40131), (66, 40146), (68, 40158),

Gene: Glaske_55 Start: 38975, Stop: 39412, Start Num: 6

Candidate Starts for Glaske_55:

(Start: 6 @38975 has 17 MA's), (13, 39047), (Start: 21 @39089 has 79 MA's), (26, 39113), (35, 39170), (76, 39359), (79, 39380),

Gene: Gorge_67 Start: 42402, Stop: 42743, Start Num: 21

Candidate Starts for Gorge_67:

(Start: 18 @42393 has 2 MA's), (Start: 21 @42402 has 79 MA's), (29, 42441), (40, 42519), (81, 42732),

Gene: Grimmer_73 Start: 42556, Stop: 42891, Start Num: 21

Candidate Starts for Grimmer_73:

(Start: 18 @42547 has 2 MA's), (Start: 21 @42556 has 79 MA's), (29, 42589), (40, 42661), (49, 42709), (67, 42796), (81, 42880),

Gene: Guppsters_63 Start: 40585, Stop: 40926, Start Num: 21

Candidate Starts for Guppsters_63:

(Start: 18 @40576 has 2 MA's), (Start: 21 @40585 has 79 MA's), (29, 40624), (40, 40702), (81, 40915),

Gene: HUHilltop_59 Start: 38234, Stop: 38674, Start Num: 6

Candidate Starts for HUHilltop_59:

(Start: 6 @38234 has 17 MA's), (13, 38306), (Start: 21 @38348 has 79 MA's), (26, 38372), (35, 38429), (76, 38621), (79, 38642),

Gene: Halley_81 Start: 52792, Stop: 52445, Start Num: 20

Candidate Starts for Halley_81:

(14, 52819), (Start: 20 @52792 has 9 MA's), (Start: 21 @52789 has 79 MA's), (30, 52753), (57, 52591), (59, 52585), (61, 52582), (78, 52498),

Gene: Harley_65 Start: 42034, Stop: 42369, Start Num: 21

Candidate Starts for Harley_65:

(Start: 18 @42025 has 2 MA's), (Start: 21 @42034 has 79 MA's), (29, 42073),

Gene: HokkenD_71 Start: 51061, Stop: 50714, Start Num: 20

Candidate Starts for HokkenD_71:

(14, 51088), (Start: 20 @51061 has 9 MA's), (Start: 21 @51058 has 79 MA's), (30, 51022), (57, 50860), (59, 50854), (61, 50851), (78, 50767),

Gene: Hughesyang_79 Start: 52747, Stop: 52403, Start Num: 21

Candidate Starts for Hughesyang_79:

(14, 52777), (Start: 20 @52750 has 9 MA's), (Start: 21 @52747 has 79 MA's), (30, 52711), (57, 52549), (59, 52543), (61, 52540), (78, 52456),

Gene: IbOuu_64 Start: 41437, Stop: 41772, Start Num: 21

Candidate Starts for IbOuu_64:

(Start: 18 @41428 has 2 MA's), (Start: 21 @41437 has 79 MA's), (29, 41476), (40, 41548), (81, 41761),

Gene: Ibhubesi_63 Start: 41044, Stop: 41385, Start Num: 21

Candidate Starts for Ibhubesi_63:

(Start: 18 @41035 has 2 MA's), (Start: 21 @41044 has 79 MA's), (25, 41065), (30, 41080), (36, 41131), (64, 41269), (81, 41374),

Gene: Inventum_58 Start: 40539, Stop: 40883, Start Num: 18

Candidate Starts for Inventum_58:

(Start: 18 @40539 has 2 MA's), (Start: 21 @40548 has 79 MA's), (29, 40587), (40, 40659), (81, 40872),

Gene: James_67 Start: 42527, Stop: 42868, Start Num: 21

Candidate Starts for James_67:

(Start: 18 @42518 has 2 MA's), (Start: 21 @42527 has 79 MA's), (29, 42566), (40, 42644), (81, 42857),

Gene: Job42_65 Start: 42942, Stop: 43283, Start Num: 21

Candidate Starts for Job42_65:

(Start: 18 @42933 has 2 MA's), (Start: 21 @42942 has 79 MA's), (29, 42981), (40, 43059), (81, 43272),

Gene: JuicyJay_77 Start: 53923, Stop: 53579, Start Num: 21

Candidate Starts for JuicyJay_77:

(14, 53953), (Start: 20 @53926 has 9 MA's), (Start: 21 @53923 has 79 MA's), (30, 53887), (57, 53725), (59, 53719), (61, 53716), (78, 53632),

Gene: Juniper1_62 Start: 41298, Stop: 41678, Start Num: 21

Candidate Starts for Juniper1_62:

(Start: 18 @41289 has 2 MA's), (Start: 21 @41298 has 79 MA's), (29, 41337), (51, 41508), (59, 41532), (74, 41604), (81, 41667),

Gene: Kalah2_74 Start: 52082, Stop: 51738, Start Num: 21

Candidate Starts for Kalah2_74:

(14, 52112), (Start: 20 @52085 has 9 MA's), (Start: 21 @52082 has 79 MA's), (30, 52046), (57, 51884), (59, 51878), (61, 51875), (78, 51791),

Gene: Kari_53 Start: 36257, Stop: 36580, Start Num: 17

Candidate Starts for Kari_53:

(Start: 17 @36257 has 7 MA's), (53, 36446), (54, 36449), (79, 36548),

Gene: KashFlow_74 Start: 47820, Stop: 47479, Start Num: 20

Candidate Starts for KashFlow_74:

(14, 47847), (Start: 20 @47820 has 9 MA's), (Start: 21 @47817 has 79 MA's), (30, 47781), (53, 47634), (61, 47613), (73, 47553),

Gene: KilKor_56 Start: 39668, Stop: 40105, Start Num: 6

Candidate Starts for KilKor_56:

(Start: 6 @39668 has 17 MA's), (13, 39740), (Start: 21 @39782 has 79 MA's), (26, 39806), (35, 39863), (76, 40052), (79, 40073),

Gene: Kimberlium_68 Start: 43340, Stop: 43681, Start Num: 21

Candidate Starts for Kimberlium_68:

(Start: 21 @43340 has 79 MA's), (29, 43379), (40, 43433), (69, 43595), (70, 43601), (76, 43628), (77, 43631),

Gene: Kingsley_60 Start: 40183, Stop: 40524, Start Num: 21

Candidate Starts for Kingsley_60:

(Start: 18 @40174 has 2 MA's), (Start: 21 @40183 has 79 MA's), (29, 40222), (40, 40300), (81, 40513),

Gene: Klein_91 Start: 55893, Stop: 56234, Start Num: 21

Candidate Starts for Klein_91:

(5, 55761), (10, 55821), (11, 55842), (12, 55848), (Start: 21 @55893 has 79 MA's), (29, 55932), (40, 55986), (69, 56148), (70, 56154), (76, 56181), (77, 56184), (81, 56223),

Gene: Langerak_54 Start: 36276, Stop: 36599, Start Num: 17

Candidate Starts for Langerak_54:

(Start: 17 @36276 has 7 MA's), (53, 36465), (54, 36468), (79, 36567),

Gene: Latretium_65 Start: 41581, Stop: 41904, Start Num: 21

Candidate Starts for Latretium_65:

(4, 41428), (Start: 18 @41572 has 2 MA's), (Start: 21 @41581 has 79 MA's), (25, 41602), (30, 41617), (36, 41668), (40, 41689), (48, 41731), (64, 41785), (74, 41842), (81, 41893),

Gene: LilMoolah_61 Start: 40447, Stop: 40788, Start Num: 21

Candidate Starts for LilMoolah_61:

(Start: 18 @40438 has 2 MA's), (Start: 21 @40447 has 79 MA's), (29, 40486), (40, 40564), (81, 40777),

Gene: LittleE_80 Start: 51274, Stop: 51020, Start Num: 41

Candidate Starts for LittleE_80:

(34, 51304), (39, 51277), (Start: 41 @51274 has 1 MA's), (72, 51103), (75, 51088),

Gene: Lizziana_69 Start: 42008, Stop: 42349, Start Num: 21

Candidate Starts for Lizziana_69:

(Start: 18 @41999 has 2 MA's), (Start: 21 @42008 has 79 MA's), (29, 42047), (40, 42125), (81, 42338),

Gene: LunaBlu_65 Start: 41579, Stop: 41920, Start Num: 21

Candidate Starts for LunaBlu_65:

(Start: 18 @41570 has 2 MA's), (Start: 21 @41579 has 79 MA's), (25, 41600), (30, 41615), (36, 41666), (64, 41804), (81, 41909),

Gene: MadMen_63 Start: 41307, Stop: 41648, Start Num: 21

Candidate Starts for MadMen_63:

(5, 41175), (10, 41235), (11, 41256), (12, 41262), (Start: 21 @41307 has 79 MA's), (29, 41346), (40, 41400), (69, 41562), (70, 41568), (76, 41595),

Gene: Madiba_64 Start: 40812, Stop: 41153, Start Num: 21

Candidate Starts for Madiba_64:

(1, 40572), (2, 40578), (5, 40680), (10, 40740), (11, 40761), (12, 40767), (Start: 21 @40812 has 79 MA's), (29, 40851), (40, 40905), (70, 41073), (76, 41100),

Gene: Mahavrat_60 Start: 40518, Stop: 40859, Start Num: 21

Candidate Starts for Mahavrat_60:

(Start: 18 @40509 has 2 MA's), (Start: 21 @40518 has 79 MA's), (29, 40551), (40, 40629), (49, 40677), (67, 40764), (81, 40848),

Gene: Mahavrat_76 Start: 46252, Stop: 46590, Start Num: 18

Candidate Starts for Mahavrat_76:

(Start: 18 @46252 has 2 MA's), (23, 46273), (35, 46342), (38, 46348), (56, 46444),

Gene: Malithi_57 Start: 38149, Stop: 38589, Start Num: 6

Candidate Starts for Malithi_57:

(Start: 6 @38149 has 17 MA's), (13, 38221), (Start: 21 @38263 has 79 MA's), (26, 38287), (35, 38344), (76, 38536), (79, 38557),

Gene: Marker_65 Start: 41128, Stop: 41487, Start Num: 21

Candidate Starts for Marker_65:

(Start: 18 @41119 has 2 MA's), (Start: 21 @41128 has 79 MA's), (29, 41167), (40, 41239), (69, 41401), (70, 41407), (76, 41434),

Gene: Marleymoo_69 Start: 49698, Stop: 49360, Start Num: 21

Candidate Starts for Marleymoo_69:

(14, 49728), (Start: 20 @49701 has 9 MA's), (Start: 21 @49698 has 79 MA's), (30, 49662), (53, 49515), (61, 49494), (73, 49434),

Gene: Mattes_67 Start: 42527, Stop: 42868, Start Num: 21

Candidate Starts for Mattes_67:

(Start: 18 @42518 has 2 MA's), (Start: 21 @42527 has 79 MA's), (29, 42566), (40, 42644), (81, 42857),

Gene: Megiddo_56 Start: 38999, Stop: 39439, Start Num: 6

Candidate Starts for Megiddo_56:

(Start: 6 @38999 has 17 MA's), (13, 39071), (Start: 21 @39113 has 79 MA's), (26, 39137), (35, 39194), (76, 39386), (79, 39407),

Gene: Minerva_82 Start: 52925, Stop: 52584, Start Num: 20

Candidate Starts for Minerva_82:

(14, 52952), (Start: 20 @52925 has 9 MA's), (Start: 21 @52922 has 79 MA's), (30, 52886), (53, 52739), (61, 52718), (73, 52658),

Gene: MooMoo_50 Start: 36541, Stop: 36855, Start Num: 21

Candidate Starts for MooMoo_50:

(Start: 21 @36541 has 79 MA's), (31, 36589), (37, 36622), (44, 36661), (46, 36670), (58, 36736), (65, 36763), (80, 36841),

Gene: Mova_67 Start: 41316, Stop: 41657, Start Num: 21

Candidate Starts for Mova_67:

(1, 41076), (2, 41082), (5, 41184), (10, 41244), (11, 41265), (12, 41271), (Start: 21 @41316 has 79 MA's), (29, 41355), (40, 41409), (70, 41577), (76, 41604),

Gene: MulchExplorer_71 Start: 43339, Stop: 43680, Start Num: 21

Candidate Starts for MulchExplorer_71:

(Start: 21 @43339 has 79 MA's), (29, 43378), (40, 43432), (69, 43594), (70, 43600), (76, 43627), (77, 43630),

Gene: Mutaforma13_67 Start: 43868, Stop: 44182, Start Num: 21

Candidate Starts for Mutaforma13_67:

(Start: 18 @43859 has 2 MA's), (Start: 21 @43868 has 79 MA's), (29, 43901), (40, 43973), (63, 44072), (74, 44120), (81, 44171),

Gene: Necropolis_55 Start: 37600, Stop: 38040, Start Num: 6

Candidate Starts for Necropolis_55:

(Start: 6 @37600 has 17 MA's), (13, 37672), (Start: 21 @37714 has 79 MA's), (26, 37738), (35, 37795), (76, 37987), (79, 38008),

Gene: Nekros_76 Start: 50135, Stop: 49875, Start Num: 34

Candidate Starts for Nekros_76:

(34, 50135), (39, 50108), (Start: 41 @50105 has 1 MA's), (42, 50096), (72, 49958), (75, 49943),

Gene: NewHope4_64 Start: 40950, Stop: 41291, Start Num: 21

Candidate Starts for NewHope4_64:

(Start: 18 @40941 has 2 MA's), (Start: 21 @40950 has 79 MA's), (25, 40971), (30, 40986), (36, 41037), (64, 41175), (81, 41280),

Gene: Nibley_70 Start: 46983, Stop: 46723, Start Num: 34

Candidate Starts for Nibley_70:

(34, 46983), (39, 46956), (Start: 41 @46953 has 1 MA's), (42, 46944), (72, 46806), (75, 46791),

Gene: NihilNomen_80 Start: 52876, Stop: 52532, Start Num: 21

Candidate Starts for NihilNomen_80:

(14, 52906), (Start: 20 @52879 has 9 MA's), (Start: 21 @52876 has 79 MA's), (30, 52840), (57, 52678), (59, 52672), (61, 52669), (78, 52585),

Gene: Nivrat_59 Start: 40320, Stop: 40661, Start Num: 21

Candidate Starts for Nivrat_59:

(Start: 18 @40311 has 2 MA's), (Start: 21 @40320 has 79 MA's), (29, 40359), (40, 40437), (81, 40650),

Gene: Odette_78 Start: 51918, Stop: 51574, Start Num: 21

Candidate Starts for Odette_78:

(14, 51948), (Start: 20 @51921 has 9 MA's), (Start: 21 @51918 has 79 MA's), (30, 51882), (57, 51720), (59, 51714), (61, 51711), (78, 51627),

Gene: Oksu_67 Start: 43933, Stop: 44274, Start Num: 21

Candidate Starts for Oksu_67:

(Start: 18 @43924 has 2 MA's), (Start: 21 @43933 has 79 MA's), (29, 43972),

Gene: OlympiaSaint_65 Start: 41469, Stop: 41810, Start Num: 21

Candidate Starts for OlympiaSaint_65:

(Start: 18 @41460 has 2 MA's), (Start: 21 @41469 has 79 MA's), (29, 41508), (40, 41586), (81, 41799),

Gene: Omega_82 Start: 52706, Stop: 52464, Start Num: 43

Candidate Starts for Omega_82:

(24, 52817), (27, 52805), (28, 52799), (33, 52751), (Start: 43 @52706 has 1 MA's), (50, 52631), (52, 52625), (72, 52547), (75, 52532),

Gene: Optimus_77 Start: 51627, Stop: 51340, Start Num: 21

Candidate Starts for Optimus_77:

(14, 51657), (Start: 20 @51630 has 9 MA's), (Start: 21 @51627 has 79 MA's), (30, 51591), (62, 51420),

Gene: Phalm_56 Start: 38975, Stop: 39412, Start Num: 6

Candidate Starts for Phalm_56:

(Start: 6 @38975 has 17 MA's), (13, 39047), (Start: 21 @39089 has 79 MA's), (26, 39113), (35, 39170), (76, 39359), (79, 39380),

Gene: Phasih_61 Start: 41374, Stop: 41724, Start Num: 22

Candidate Starts for Phasih_61:

(Start: 21 @41365 has 79 MA's), (Start: 22 @41374 has 1 MA's), (26, 41395), (29, 41404), (40, 41482), (47, 41527), (55, 41581), (69, 41638), (70, 41644), (76, 41671), (81, 41713),

Gene: Philus_66 Start: 42110, Stop: 42451, Start Num: 21

Candidate Starts for Philus_66:

(Start: 18 @42101 has 2 MA's), (Start: 21 @42110 has 79 MA's), (29, 42149), (40, 42227), (81, 42440),

Gene: Phoebus_82 Start: 54058, Stop: 53714, Start Num: 21

Candidate Starts for Phoebus_82:

(14, 54088), (Start: 20 @54061 has 9 MA's), (Start: 21 @54058 has 79 MA's), (30, 54022), (57, 53860), (59, 53854), (61, 53851), (78, 53767),

Gene: Polkaroo_56 Start: 37599, Stop: 37922, Start Num: 17

Candidate Starts for Polkaroo_56:

(Start: 17 @37599 has 7 MA's), (53, 37788), (54, 37791), (79, 37890),

Gene: Pollywog_64 Start: 41787, Stop: 42128, Start Num: 21

Candidate Starts for Pollywog_64:

(Start: 18 @41778 has 2 MA's), (Start: 21 @41787 has 79 MA's), (29, 41826), (40, 41904), (81, 42117),

Gene: Polo2Bam_69 Start: 40804, Stop: 41145, Start Num: 21

Candidate Starts for Polo2Bam_69:

(Start: 18 @40795 has 2 MA's), (Start: 21 @40804 has 79 MA's), (25, 40825), (30, 40840), (36, 40891), (64, 41029), (81, 41134),

Gene: Pound_80 Start: 54194, Stop: 53856, Start Num: 21

Candidate Starts for Pound_80:

(14, 54224), (Start: 20 @54197 has 9 MA's), (Start: 21 @54194 has 79 MA's), (30, 54158), (53, 54011), (61, 53990), (73, 53930),

Gene: QuickMath_67 Start: 43563, Stop: 43904, Start Num: 21

Candidate Starts for QuickMath_67:

(Start: 21 @43563 has 79 MA's), (29, 43602), (40, 43656), (69, 43818), (70, 43824), (76, 43851), (77, 43854),

Gene: RedBird_61 Start: 40229, Stop: 40564, Start Num: 21

Candidate Starts for RedBird_61:

(Start: 18 @40220 has 2 MA's), (Start: 21 @40229 has 79 MA's), (29, 40268), (40, 40340), (81, 40553),

Gene: Redno2_76 Start: 49675, Stop: 49328, Start Num: 20

Candidate Starts for Redno2_76:

(14, 49702), (Start: 20 @49675 has 9 MA's), (Start: 21 @49672 has 79 MA's), (30, 49636), (57, 49474), (59, 49468), (61, 49465), (78, 49381),

Gene: Renaud18_73 Start: 42883, Stop: 43242, Start Num: 21

Candidate Starts for Renaud18_73:

(8, 42793), (Start: 21 @42883 has 79 MA's), (29, 42922), (40, 42994), (69, 43156), (70, 43162), (76, 43189), (77, 43192), (81, 43231),

Gene: Royals2015_66 Start: 41205, Stop: 41546, Start Num: 21

Candidate Starts for Royals2015_66:

(Start: 18 @41196 has 2 MA's), (Start: 21 @41205 has 79 MA's), (29, 41244), (40, 41322), (81, 41535),

Gene: Saal_65 Start: 42221, Stop: 42562, Start Num: 21

Candidate Starts for Saal_65:

(Start: 18 @42212 has 2 MA's), (Start: 21 @42221 has 79 MA's), (29, 42260), (40, 42338), (81, 42551),

Gene: Sarma624_61 Start: 37375, Stop: 37716, Start Num: 21

Candidate Starts for Sarma624_61:

(Start: 18 @37366 has 2 MA's), (Start: 21 @37375 has 79 MA's), (29, 37414), (40, 37492), (81, 37705),

Gene: Sassafras_61 Start: 40547, Stop: 40882, Start Num: 21

Candidate Starts for Sassafras_61:

(Start: 18 @40538 has 2 MA's), (Start: 21 @40547 has 79 MA's), (29, 40586), (40, 40658), (81, 40871),

Gene: Schatzie_75 Start: 51668, Stop: 51321, Start Num: 20

Candidate Starts for Schatzie_75:

(14, 51695), (Start: 20 @51668 has 9 MA's), (Start: 21 @51665 has 79 MA's), (30, 51629), (57, 51467), (59, 51461), (61, 51458), (78, 51374),

Gene: Shaboozey_76 Start: 47897, Stop: 47655, Start Num: 43

Candidate Starts for Shaboozey_76:

(24, 48008), (27, 47996), (28, 47990), (33, 47942), (Start: 43 @47897 has 1 MA's), (50, 47822), (52, 47816), (72, 47738), (75, 47723),

Gene: SimranZ1_64 Start: 41403, Stop: 41735, Start Num: 15

Candidate Starts for SimranZ1_64:

(Start: 15 @41403 has 2 MA's), (26, 41433), (29, 41442), (40, 41520), (45, 41544), (48, 41562), (64, 41616), (68, 41643), (74, 41673), (81, 41724),

Gene: Sonah_57 Start: 37705, Stop: 38145, Start Num: 6

Candidate Starts for Sonah_57:

(Start: 6 @37705 has 17 MA's), (13, 37777), (Start: 21 @37819 has 79 MA's), (26, 37843), (35, 37900), (76, 38092), (79, 38113),

Gene: Soul22_69 Start: 42555, Stop: 42905, Start Num: 21

Candidate Starts for Soul22_69:

(Start: 18 @42546 has 2 MA's), (Start: 21 @42555 has 79 MA's), (29, 42594), (40, 42672), (64, 42786), (66, 42801), (68, 42813),

Gene: StevieRay_61 Start: 40026, Stop: 40466, Start Num: 6

Candidate Starts for StevieRay_61:

(Start: 6 @40026 has 17 MA's), (13, 40098), (Start: 21 @40140 has 79 MA's), (26, 40164), (35, 40221), (76, 40413), (79, 40434),

Gene: StressBall_56 Start: 38975, Stop: 39412, Start Num: 6

Candidate Starts for StressBall_56:

(Start: 6 @38975 has 17 MA's), (13, 39047), (Start: 21 @39089 has 79 MA's), (26, 39113), (35, 39170), (76, 39359), (79, 39380),

Gene: Tchotchke_62 Start: 40712, Stop: 41053, Start Num: 21

Candidate Starts for Tchotchke_62:

(Start: 18 @40703 has 2 MA's), (Start: 21 @40712 has 79 MA's), (29, 40751), (40, 40829), (81, 41042),

Gene: ThetaBob_70 Start: 42862, Stop: 43218, Start Num: 21

Candidate Starts for ThetaBob_70:

(7, 42760), (Start: 21 @42862 has 79 MA's), (29, 42901), (47, 43018), (69, 43132), (70, 43138), (81, 43207),

Gene: Thibault_75 Start: 51674, Stop: 52018, Start Num: 21

Candidate Starts for Thibault_75:

(8, 51590), (Start: 21 @51674 has 79 MA's), (29, 51713), (40, 51785), (60, 51902), (71, 51944), (81, 52007),

Gene: Thibault_67 Start: 47871, Stop: 47533, Start Num: 21

Candidate Starts for Thibault_67:

(14, 47901), (Start: 20 @47874 has 9 MA's), (Start: 21 @47871 has 79 MA's), (30, 47835), (53, 47688), (61, 47667), (73, 47607),

Gene: ThreeRngTarjay_77 Start: 52950, Stop: 52606, Start Num: 21

Candidate Starts for ThreeRngTarjay_77:

(14, 52980), (Start: 20 @52953 has 9 MA's), (Start: 21 @52950 has 79 MA's), (30, 52914), (57, 52752), (59, 52746), (61, 52743), (78, 52659),

Gene: Topiatin_70 Start: 43622, Stop: 43981, Start Num: 21

Candidate Starts for Topiatin_70:

(Start: 18 @43613 has 2 MA's), (Start: 21 @43622 has 79 MA's), (29, 43661), (40, 43733), (69, 43895), (70, 43901), (76, 43928),

Gene: Velveteen_58 Start: 37375, Stop: 37716, Start Num: 21

Candidate Starts for Velveteen_58:

(Start: 18 @37366 has 2 MA's), (Start: 21 @37375 has 79 MA's), (29, 37414), (40, 37492), (81, 37705),

Gene: Venti_54 Start: 36260, Stop: 36583, Start Num: 17

Candidate Starts for Venti_54:

(Start: 17 @36260 has 7 MA's), (53, 36449), (54, 36452), (79, 36551),

Gene: Wanda_95 Start: 56202, Stop: 56543, Start Num: 21

Candidate Starts for Wanda_95:

(5, 56070), (10, 56130), (11, 56151), (12, 56157), (Start: 21 @56202 has 79 MA's), (29, 56241), (40, 56295), (69, 56457), (70, 56463), (76, 56490), (77, 56493), (81, 56532),

Gene: Willsammy_56 Start: 39151, Stop: 39588, Start Num: 6

Candidate Starts for Willsammy_56:

(Start: 6 @39151 has 17 MA's), (13, 39223), (Start: 21 @39265 has 79 MA's), (26, 39289), (35, 39346), (76, 39535), (79, 39556),

Gene: Xiaokay_70 Start: 48787, Stop: 48449, Start Num: 21

Candidate Starts for Xiaokay_70:

(14, 48817), (Start: 20 @48790 has 9 MA's), (Start: 21 @48787 has 79 MA's), (30, 48751), (53, 48604), (61, 48583), (73, 48523),

Gene: Xiaokay_80 Start: 52922, Stop: 53263, Start Num: 21

Candidate Starts for Xiaokay_80:

(5, 52790), (10, 52850), (11, 52871), (12, 52877), (Start: 21 @52922 has 79 MA's), (29, 52961), (40, 53015), (69, 53177), (70, 53183), (76, 53210), (77, 53213), (81, 53252),

Gene: Yeet_74 Start: 51170, Stop: 50823, Start Num: 20

Candidate Starts for Yeet_74:

(14, 51197), (Start: 20 @51170 has 9 MA's), (Start: 21 @51167 has 79 MA's), (30, 51131), (57, 50969), (59, 50963), (61, 50960), (78, 50876),

Gene: Yorick_62 Start: 41335, Stop: 41676, Start Num: 21

Candidate Starts for Yorick_62:

(Start: 18 @41326 has 2 MA's), (Start: 21 @41335 has 79 MA's), (29, 41374), (40, 41452), (81, 41665),

Gene: Yoshi_78 Start: 43126, Stop: 43482, Start Num: 21

Candidate Starts for Yoshi_78:

(7, 43024), (Start: 21 @43126 has 79 MA's), (29, 43165), (47, 43282), (69, 43396), (70, 43402), (81, 43471),

Gene: Zelink_77 Start: 53262, Stop: 52918, Start Num: 21

Candidate Starts for Zelink_77:

(14, 53292), (Start: 20 @53265 has 9 MA's), (Start: 21 @53262 has 79 MA's), (30, 53226), (57, 53064), (59, 53058), (61, 53055), (78, 52971),

Gene: Zelink_88 Start: 57397, Stop: 57738, Start Num: 21

Candidate Starts for Zelink_88:

(5, 57265), (10, 57325), (11, 57346), (12, 57352), (Start: 21 @57397 has 79 MA's), (29, 57436), (40, 57490), (69, 57652), (70, 57658), (76, 57685), (77, 57688), (81, 57727),