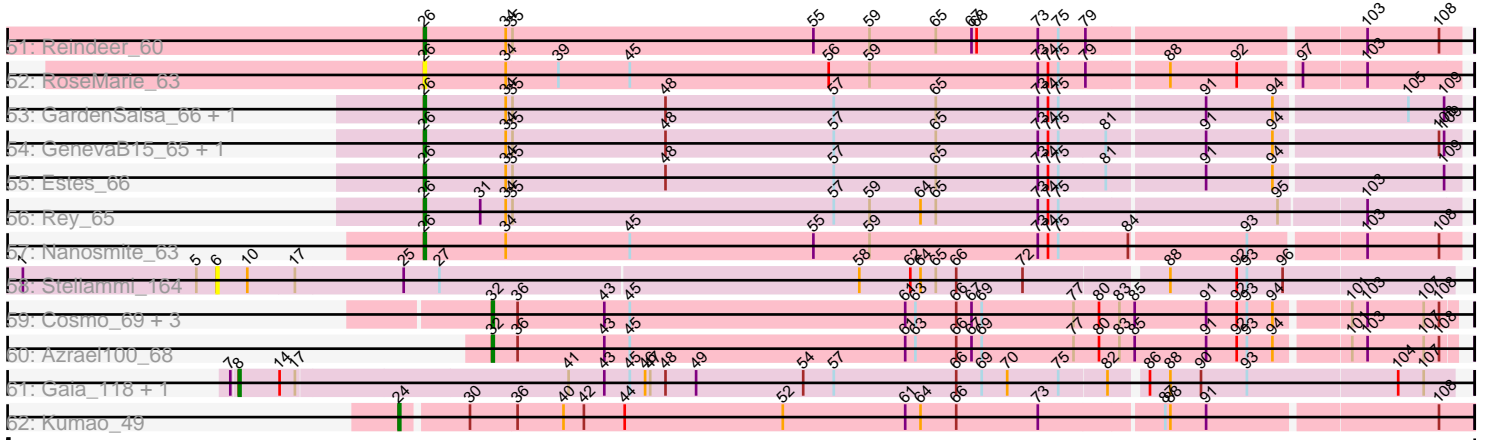


Pham 296299



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 296299 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296299 has 162 members, 38 are drafts.

Phages represented in each track:

- Track 1 : Pound_150
- Track 2 : ThreeRngTarjay_154
- Track 3 : Xiaokay_151
- Track 4 : LittleE_159
- Track 5 : Hannaconda_151, Squint_149, Gonephishing_151, Rearden_151, Nekros_155
- Track 6 : Wanda_157, DmpstrDiver_158, Ejimix_150, Minerva_157, Halley_159, Dallas_158, Beem_159
- Track 7 : Bombitas_145, HokkenD_153, Dove_145, Redno2_152, Hidrated_146, Yeet_151, JuicyJay_153, NihilNomen_160, Phoebus_159
- Track 8 : Porcelain_153, Duke13_156, MiaZeal_156, Lucky2013_149, EricMillard_152, Optimus_150, Bagrid_162
- Track 9 : Odette_162, Schatzie_153
- Track 10 : Bobby_148, Thibault_140, Constella_150
- Track 11 : Superphikiman_154, Ariel_156
- Track 12 : Marleymoo_142
- Track 13 : Courthouse_152
- Track 14 : BAKA_159
- Track 15 : Omega_163
- Track 16 : BronnyJames_151, Shaboozey_154, Nibley_150, KashFlow_156
- Track 17 : Kalah2_150
- Track 18 : Zelink_152
- Track 19 : Hughesyang_158
- Track 20 : Klein_157
- Track 21 : Gardann_90, Nicholasp3_90, Rumpelstiltskin_86, Underpass_82
- Track 22 : Breezona_90, BobsGarage_89, BigCheese_90, Miley16_90, DrSeegs_89, Winky_90, Sarshaun_91, Soap141_90
- Track 23 : Rossetti_90
- Track 24 : OverPar_92, Loadrie_89, GuuelaD_87, Itos_90, Gabriela_90
- Track 25 : DHan_93, LilDestine_88, ZhongYanYuan_87
- Track 26 : Faith1_90, Zakai_91, Netyap_89, Crossroads_90
- Track 27 : Archie_87
- Track 28 : MkaliMitinis3_92, Wigglewiggles_90, Kahlid_89, Wilder_91, Lynnae_91
- Track 29 : Tourach_90
- Track 30 : Baoshan_90
- Track 31 : Vetrix_88
- Track 32 : Lewan_91

- Track 33 : Finemlucis_91
- Track 34 : Hafay_90, Claus_88
- Track 35 : Bazzle_87
- Track 36 : SoJulia_92
- Track 37 : DanBing_89
- Track 38 : Snenia_86, Jubie_86, Moostard_85, TriFive_88, Finnry_87, Clautastrophe_85, Nicholas_85, Jobypre_87, Red305_88, Samty_86, MsGreen_87, Kingsolomon_85, Lumos_87, Bellis_87
- Track 39 : MiniLon_91, MiniMac_91, Lolly9_86
- Track 40 : DuncansLeg_87
- Track 41 : BourbonZero_88, KirDoubleO7_85, Ellson_86, LiyuLake_86
- Track 42 : Whirlwind_88, Krypton555_88
- Track 43 : Douzhi_91, Sheng711_92, Quby_91, PYPDinur_91, BrainDrainer_92
- Track 44 : ChutneyChips_91, Chaser_89
- Track 45 : FarmResident_92
- Track 46 : Douge_91
- Track 47 : Kropertea_85, DyoEdafos_93
- Track 48 : Bromden_90
- Track 49 : Glaske16_59, KleverKiS_59, PegLeg_58, Bricole_58
- Track 50 : LilhomieP_57, Skinny_60, Diminimus_59, TyDawg_58, Bongo_58, SlimJimmy_57, Dulcita_59, FreakyGoo_59, Auspice_58, TpudiCK_60, IPHane7_58, Izel_59
- Track 51 : Reindeer_60
- Track 52 : RoseMarie_63
- Track 53 : GardenSalsa_66, MrMagoo_67
- Track 54 : GenevaB15_65, Aziz_64
- Track 55 : Estes_66
- Track 56 : Rey_65
- Track 57 : Nanosmite_63
- Track 58 : Stellammi_164
- Track 59 : Cosmo_69, Wildcat_68, EniyanLRS_65, MaryV_68
- Track 60 : Azrael100_68
- Track 61 : Gaia_118, Nebkiss_119
- Track 62 : Kumao_49

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

The start number called the most often in the published annotations is 6, it was called in 40 of the 124 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_156, BAKA_159, Bagrid_162, Beem_159, Bobby_148, Bombitas_145, BronnyJames_151, Constella_150, Courthouse_152, Dallas_158, DmpstrDiver_158, Dove_145, Duke13_156, Ejimix_150, EricMillard_152, Gonephishing_151, Halley_159, Hannaconda_151, Hidrated_146, HokkenD_153, Hughesyang_158, JuicyJay_153, Kalah2_150, KashFlow_156, Klein_157, LittleE_159, Lucky2013_149, Marleymoo_142, MiaZeal_156, Minerva_157, Nekros_155, Nibley_150, NihilNomen_160, Odette_162, Omega_163, Optimus_150, Phoebus_159, Porcelain_153, Pound_150, Rearden_151, Redno2_152, Schatzie_153, Shaboozey_154, Squint_149, Stellammi_164, Superphikiman_154, Thibault_140,

ThreeRngTarjay_154, Wanda_157, Xiaokay_151, Yeet_151, Zelink_152,

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

-

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

- Archie_87, Auspice_58, Aziz_64, Azrael100_68, Baoshan_90, Bazzle_87, Bellis_87, BigCheese_90, BobsGarage_89, Bongo_58, BourbonZero_88, BrainDrainer_92, Breezona_90, Bricole_58, Bromden_90, Chaser_89, ChutneyChips_91, Claus_88, Clautastrophe_85, Cosmo_69, Crossroads_90, DHan_93, DanBing_89, Diminimus_59, Douge_91, Douzhi_91, DrSeegs_89, Dulcita_59, DuncansLeg_87, DyoEdafos_93, Ellson_86, EniyanLRS_65, Estes_66, Faith1_90, FarmResident_92, Finemlucis_91, Finnry_87, FreakyGoo_59, Gabriela_90, Gaia_118, Gardann_90, GardenSalsa_66, GenevaB15_65, Glaske16_59, GuuelaD_87, Hafay_90, IPhane7_58, Itos_90, Izel_59, Jobypre_87, Jubie_86, Kahlid_89, Kingsolomon_85, KirDoubleO7_85, KleverKiS_59, Kropertea_85, Krypton555_88, Kumao_49, Lewan_91, LilDestine_88, LilhomieP_57, LiyuLake_86, Loadrie_89, Lolly9_86, Lumos_87, Lynnae_91, MaryV_68, Miley16_90, MiniLon_91, MiniMac_91, MkaliMinitis3_92, Moostard_85, MrMagoo_67, MsGreen_87, Nanosmite_63, Nebkiss_119, Netyap_89, Nicholas_85, Nicholasp3_90, OverPar_92, PYPDinur_91, PegLeg_58, Quby_91, Red305_88, Reindeer_60, Rey_65, RoseMarie_63, Rossetti_90, Rumpelstiltskin_86, Samty_86, Sarshaun_91, Sheng711_92, Skinny_60, SlimJimmy_57, Snenia_86, SoJulia_92, Soap141_90, Tourach_90, TpudiCK_60, TriFive_88, TyDawg_58, Underpass_82, Vetrix_88, Whirlwind_88, Wigglewiggles_90, Wildcat_68, Wilder_91, Winky_90, Zakai_91, ZhongYanYuan_87,

Summary by start number:

Start 6:

- Found in 52 of 162 (32.1%) of genes in pham
- Manual Annotations of this start: 40 of 124
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_156 (J), BAKA_159 (J), Bagrid_162 (J), Beem_159 (J), Bobby_148 (J), Bombitas_145 (J), BronnyJames_151 (J), Constella_150 (J), Courthouse_152 (J), Dallas_158 (J), DmpstrDiver_158 (J), Dove_145 (J), Duke13_156 (J), Ejimix_150 (J), EricMillard_152 (J), Gonephishing_151 (J), Halley_159 (J), Hannaconda_151 (J), Hidrated_146 (J), HokkenD_153 (J), Hughesyang_158 (J), JuicyJay_153 (J), Kalah2_150 (J), KashFlow_156 (J), Klein_157 (J), LittleE_159 (J), Lucky2013_149 (J), Marleymoo_142 (J), MiaZeal_156 (J), Minerva_157 (J), Nekros_155 (J), Nibley_150 (J), NihilNomen_160 (J), Odette_162 (J), Omega_163 (J), Optimus_150 (J), Phoebus_159 (J), Porcelain_153 (J), Pound_150 (J), Rearden_151 (J), Redno2_152 (J), Schatzie_153 (J), Shaboozey_154 (J), Squint_149 (J), Stellammi_164 (UNK), Superphikiman_154 (J), Thibault_140 (J), ThreeRngTarjay_154 (J), Wanda_157 (J), Xiaokay_151 (J), Yeet_151 (J), Zelink_152 (J),

Start 8:

- Found in 2 of 162 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 124
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_118 (X), Nebkiss_119 (X),

Start 10:

- Found in 3 of 162 (1.9%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: SoJulia_92 (L2),

Start 12:

- Found in 24 of 162 (14.8%) of genes in pham
- Manual Annotations of this start: 14 of 124
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Baoshan_90 (L2), BrainDrainer_92 (L4), Chaser_89 (L4), ChutneyChips_91 (L4), DanBing_89 (L2), Douge_91 (L4), Douzhi_91 (L4), DyoEdafos_93 (L4), FarmResident_92 (L4), Finemlucis_91 (L2), Gardann_90 (L2), Kahlid_89 (L2), Kropertea_85 (L4), Lewan_91 (L2), Lynnae_91 (L2), MkaliMitinis3_92 (L2), Nicholasp3_90 (L2), PYPDinur_91 (L4), Quby_91 (L4), Rumpelstiltskin_86 (L2), Sheng711_92 (L4), Underpass_82 (L2), Wigglewiggles_90 (L2), Wilder_91 (L2),

Start 13:

- Found in 2 of 162 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 124
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Vetrix_88 (L2),

Start 15:

- Found in 10 of 162 (6.2%) of genes in pham
- Manual Annotations of this start: 4 of 124
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Crossroads_90 (L2), Faith1_90 (L2), Netyap_89 (L2), Zakai_91 (L2),

Start 16:

- Found in 10 of 162 (6.2%) of genes in pham
- Manual Annotations of this start: 5 of 124
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Gabriela_90 (L2), GuuelaD_87 (L2), Itos_90 (L2), Loadrie_89 (L2), OverPar_92 (L2), Tourach_90 (L2),

Start 18:

- Found in 14 of 162 (8.6%) of genes in pham
- Manual Annotations of this start: 1 of 124
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Bromden_90 (L4),

Start 20:

- Found in 33 of 162 (20.4%) of genes in pham
- Manual Annotations of this start: 25 of 124
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bellis_87 (L3), BigCheese_90 (L2), BobsGarage_89 (L2), BourbonZero_88 (L3), Breezona_90 (L2), Clautastrophe_85 (L3), DrSeegs_89 (L2), DuncansLeg_87 (L3), Ellson_86 (L3), Finnry_87 (L3), Jobypre_87 (L3), Jubie_86 (L3), Kingsolomon_85 (L3), KirDoubleO7_85 (L3), Krypton555_88 (L3), LiyuLake_86 (L3), Lolly9_86 (L3), Lumos_87 (L3), Miley16_90 (L2), MiniLon_91 (L3), MiniMac_91 (L3), Moostard_85 (L3), MsGreen_87 (L3),

Nicholas_85 (L3), Red305_88 (L3), Rossetti_90 (L2), Samty_86 (L3), Sarshaun_91 (L2), Snenia_86 (L3), Soap141_90 (L2), TriFive_88 (L3), Whirlwind_88 (L3), Winky_90 (L2),

Start 21:

- Found in 7 of 162 (4.3%) of genes in pham
- Manual Annotations of this start: 4 of 124
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archie_87 (L2), Bazzle_87 (L2), Claus_88 (L2), DHan_93 (L2), Hafay_90 (L2), LilDestine_88 (L2), ZhongYanYuan_87 (L2),

Start 24:

- Found in 24 of 162 (14.8%) of genes in pham
- Manual Annotations of this start: 1 of 124
- Called 4.2% of time when present
- Phage (with cluster) where this start called: Kumao_49 (singleton),

Start 26:

- Found in 25 of 162 (15.4%) of genes in pham
- Manual Annotations of this start: 22 of 124
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Auspice_58 (M1), Aziz_64 (M2), Bongo_58 (M1), Bricole_58 (M1), Diminimus_59 (M1), Dulcita_59 (M1), Estes_66 (M2), FreakyGoo_59 (M1), GardenSalsa_66 (M2), GenevaB15_65 (M2), Glaske16_59 (M1), IPhane7_58 (M1), Izel_59 (M1), KleverKiS_59 (M1), LilhomieP_57 (M1), MrMagoo_67 (M2), Nanosmite_63 (M3), PegLeg_58 (M1), Reindeer_60 (M1), Rey_65 (M2), RoseMarie_63 (M1), Skinny_60 (M1), SlimJimmy_57 (M1), TpudiCK_60 (M1), TyDawg_58 (M1),

Start 32:

- Found in 7 of 162 (4.3%) of genes in pham
- Manual Annotations of this start: 5 of 124
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Azrael100_68 (V), Cosmo_69 (V), EniyanLRS_65 (V), MaryV_68 (V), Wildcat_68 (V),

Summary by clusters:

There are 11 clusters represented in this pham: singleton, V, J, X, L4, M1, L3, M3, M2, L2, UNK,

Info for manual annotations of cluster J:

- Start number 6 was manually annotated 40 times for cluster J.

Info for manual annotations of cluster L2:

- Start number 12 was manually annotated 11 times for cluster L2.
- Start number 13 was manually annotated 1 time for cluster L2.
- Start number 15 was manually annotated 4 times for cluster L2.
- Start number 16 was manually annotated 5 times for cluster L2.
- Start number 20 was manually annotated 6 times for cluster L2.
- Start number 21 was manually annotated 4 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 20 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 12 was manually annotated 3 times for cluster L4.
- Start number 18 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:

- Start number 26 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 26 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 26 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:

- Start number 32 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:

- Start number 8 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Archie_87 Start: 57239, Stop: 57889, Start Num: 21

Candidate Starts for Archie_87:

(Start: 21 @57239 has 4 MA's), (28, 57308), (29, 57311), (38, 57365), (43, 57395), (50, 57467), (53, 57503), (54, 57512), (58, 57545), (60, 57569), (62, 57575), (64, 57581), (65, 57590), (66, 57602), (69, 57617), (75, 57662), (88, 57719), (107, 57866),

Gene: Ariel_156 Start: 80329, Stop: 81039, Start Num: 6

Candidate Starts for Ariel_156:

(Start: 6 @80329 has 40 MA's), (43, 80551), (46, 80575), (47, 80578), (48, 80587), (58, 80701), (62, 80731), (64, 80737), (65, 80746), (66, 80758), (71, 80794), (72, 80797), (86, 80863), (89, 80890), (100, 80971), (104, 81007),

Gene: Auspice_58 Start: 40662, Stop: 41249, Start Num: 26

Candidate Starts for Auspice_58:

(Start: 26 @40662 has 22 MA's), (34, 40707), (35, 40710), (36, 40713), (48, 40797), (73, 41016), (74, 41022), (75, 41028), (84, 41067), (96, 41154), (99, 41175), (103, 41196), (104, 41214),

Gene: Aziz_64 Start: 42683, Stop: 43279, Start Num: 26

Candidate Starts for Aziz_64:

(Start: 26 @42683 has 22 MA's), (34, 42731), (35, 42734), (48, 42824), (57, 42923), (65, 42983), (73, 43043), (74, 43049), (75, 43055), (81, 43082), (91, 43136), (94, 43175), (108, 43268), (109, 43271),

Gene: Azrael100_68 Start: 45596, Stop: 46153, Start Num: 32

Candidate Starts for Azrael100_68:

(Start: 32 @45596 has 5 MA's), (36, 45611), (43, 45662), (45, 45677), (61, 45839), (63, 45845), (66, 45869), (67, 45878), (69, 45884), (77, 45938), (80, 45953), (83, 45965), (85, 45974), (91, 46016), (92,

46034), (93, 46040), (94, 46055), (101, 46094), (103, 46103), (107, 46136), (108, 46145),

Gene: BAKA_159 Start: 84277, Stop: 84987, Start Num: 6

Candidate Starts for BAKA_159:

(2, 84214), (3, 84229), (Start: 6 @84277 has 40 MA's), (43, 84499), (46, 84523), (47, 84526), (48, 84535), (62, 84679), (64, 84685), (65, 84694), (66, 84706), (72, 84745), (88, 84823), (89, 84838), (100, 84919),

Gene: Bagrid_162 Start: 85506, Stop: 86216, Start Num: 6

Candidate Starts for Bagrid_162:

(Start: 6 @85506 has 40 MA's), (43, 85728), (46, 85752), (47, 85755), (48, 85764), (62, 85908), (64, 85914), (65, 85923), (66, 85935), (72, 85974), (88, 86052), (89, 86067), (100, 86148),

Gene: Baoshan_90 Start: 57893, Stop: 58579, Start Num: 12

Candidate Starts for Baoshan_90:

(Start: 12 @57893 has 14 MA's), (Start: 18 @57917 has 1 MA's), (29, 57998), (38, 58052), (43, 58082), (50, 58154), (51, 58160), (58, 58232), (60, 58256), (62, 58262), (65, 58277), (66, 58289), (67, 58298), (75, 58349), (88, 58406), (102, 58514), (107, 58553), (110, 58571),

Gene: Bazzle_87 Start: 57795, Stop: 58445, Start Num: 21

Candidate Starts for Bazzle_87:

(Start: 21 @57795 has 4 MA's), (28, 57864), (29, 57867), (38, 57921), (43, 57951), (50, 58023), (53, 58059), (54, 58068), (58, 58101), (60, 58125), (62, 58131), (64, 58137), (65, 58146), (66, 58158), (69, 58173), (75, 58218), (88, 58275), (102, 58383), (107, 58422),

Gene: Beem_159 Start: 85469, Stop: 86179, Start Num: 6

Candidate Starts for Beem_159:

(Start: 6 @85469 has 40 MA's), (43, 85691), (46, 85715), (47, 85718), (48, 85727), (57, 85826), (58, 85841), (62, 85871), (65, 85886), (66, 85898), (72, 85937), (88, 86015), (89, 86030), (100, 86111),

Gene: Bellis_87 Start: 57329, Stop: 57982, Start Num: 20

Candidate Starts for Bellis_87:

(Start: 20 @57329 has 25 MA's), (Start: 24 @57368 has 1 MA's), (29, 57404), (38, 57458), (39, 57461), (43, 57488), (48, 57524), (50, 57560), (58, 57638), (62, 57668), (64, 57674), (66, 57695), (67, 57704), (69, 57710), (75, 57755), (76, 57758), (88, 57812), (93, 57857), (96, 57878), (102, 57920), (106, 57956), (107, 57959),

Gene: BigCheese_90 Start: 58042, Stop: 58695, Start Num: 20

Candidate Starts for BigCheese_90:

(Start: 20 @58042 has 25 MA's), (29, 58117), (38, 58171), (43, 58201), (50, 58273), (51, 58279), (58, 58351), (60, 58375), (62, 58381), (65, 58396), (66, 58408), (69, 58423), (75, 58468), (88, 58525), (102, 58633), (105, 58663), (107, 58672),

Gene: Bobby_148 Start: 85819, Stop: 86529, Start Num: 6

Candidate Starts for Bobby_148:

(Start: 6 @85819 has 40 MA's), (43, 86041), (46, 86065), (47, 86068), (48, 86077), (51, 86119), (58, 86191), (62, 86221), (65, 86236), (66, 86248), (72, 86287), (88, 86365), (89, 86380), (100, 86461),

Gene: BobsGarage_89 Start: 58042, Stop: 58695, Start Num: 20

Candidate Starts for BobsGarage_89:

(Start: 20 @58042 has 25 MA's), (29, 58117), (38, 58171), (43, 58201), (50, 58273), (51, 58279), (58, 58351), (60, 58375), (62, 58381), (65, 58396), (66, 58408), (69, 58423), (75, 58468), (88, 58525), (102, 58633), (105, 58663), (107, 58672),

Gene: Bombitas_145 Start: 81475, Stop: 82185, Start Num: 6

Candidate Starts for Bombitas_145:

(Start: 6 @81475 has 40 MA's), (43, 81697), (46, 81721), (47, 81724), (48, 81733), (57, 81832), (58, 81847), (62, 81877), (64, 81883), (65, 81892), (66, 81904), (72, 81943), (89, 82036), (100, 82117), (104, 82153),

Gene: Bongo_58 Start: 40666, Stop: 41253, Start Num: 26

Candidate Starts for Bongo_58:

(Start: 26 @40666 has 22 MA's), (34, 40711), (35, 40714), (36, 40717), (48, 40801), (73, 41020), (74, 41026), (75, 41032), (84, 41071), (96, 41158), (99, 41179), (103, 41200), (104, 41218),

Gene: BourbonZero_88 Start: 57358, Stop: 58008, Start Num: 20

Candidate Starts for BourbonZero_88:

(Start: 20 @57358 has 25 MA's), (29, 57430), (38, 57484), (39, 57487), (43, 57514), (48, 57550), (50, 57586), (58, 57664), (62, 57694), (64, 57700), (66, 57721), (67, 57730), (69, 57736), (71, 57757), (75, 57781), (76, 57784), (78, 57793), (88, 57838), (93, 57883), (96, 57904), (102, 57946), (106, 57982), (107, 57985), (110, 58003),

Gene: BrainDrainer_92 Start: 57521, Stop: 58210, Start Num: 12

Candidate Starts for BrainDrainer_92:

(Start: 12 @57521 has 14 MA's), (29, 57629), (37, 57668), (38, 57683), (39, 57686), (45, 57728), (48, 57749), (50, 57785), (60, 57887), (64, 57899), (65, 57908), (66, 57920), (67, 57929), (69, 57935), (75, 57980), (78, 57992), (86, 58025), (88, 58037), (107, 58184),

Gene: Breezona_90 Start: 58042, Stop: 58695, Start Num: 20

Candidate Starts for Breezona_90:

(Start: 20 @58042 has 25 MA's), (29, 58117), (38, 58171), (43, 58201), (50, 58273), (51, 58279), (58, 58351), (60, 58375), (62, 58381), (65, 58396), (66, 58408), (69, 58423), (75, 58468), (88, 58525), (102, 58633), (105, 58663), (107, 58672),

Gene: Bricole_58 Start: 40648, Stop: 41235, Start Num: 26

Candidate Starts for Bricole_58:

(Start: 26 @40648 has 22 MA's), (34, 40693), (35, 40696), (36, 40699), (48, 40783), (73, 41002), (74, 41008), (75, 41014), (84, 41053), (88, 41074), (96, 41140), (99, 41161), (103, 41182), (104, 41200),

Gene: Bromden_90 Start: 58275, Stop: 58931, Start Num: 18

Candidate Starts for Bromden_90:

(Start: 18 @58275 has 1 MA's), (28, 58347), (29, 58350), (37, 58389), (38, 58404), (43, 58434), (45, 58449), (49, 58488), (50, 58506), (60, 58608), (64, 58620), (65, 58629), (66, 58641), (67, 58650), (69, 58656), (75, 58701), (78, 58713), (86, 58746), (88, 58758), (107, 58905),

Gene: BronnyJames_151 Start: 80590, Stop: 81300, Start Num: 6

Candidate Starts for BronnyJames_151:

(Start: 6 @80590 has 40 MA's), (43, 80812), (46, 80836), (47, 80839), (48, 80848), (62, 80992), (64, 80998), (65, 81007), (66, 81019), (71, 81055), (72, 81058), (89, 81151), (98, 81217), (100, 81232), (104, 81268),

Gene: Chaser_89 Start: 56649, Stop: 57341, Start Num: 12

Candidate Starts for Chaser_89:

(Start: 12 @56649 has 14 MA's), (38, 56814), (43, 56844), (45, 56859), (48, 56880), (50, 56916), (60, 57018), (64, 57030), (65, 57039), (66, 57051), (67, 57060), (69, 57066), (75, 57111), (78, 57123), (86, 57156), (88, 57168), (107, 57315),

Gene: ChutneyChips_91 Start: 57398, Stop: 58090, Start Num: 12

Candidate Starts for ChutneyChips_91:

(Start: 12 @57398 has 14 MA's), (38, 57563), (43, 57593), (45, 57608), (48, 57629), (50, 57665), (60, 57767), (64, 57779), (65, 57788), (66, 57800), (67, 57809), (69, 57815), (75, 57860), (78, 57872), (86, 57905), (88, 57917), (107, 58064),

Gene: Claus_88 Start: 57577, Stop: 58230, Start Num: 21

Candidate Starts for Claus_88:

(Start: 21 @57577 has 4 MA's), (29, 57649), (38, 57703), (43, 57733), (50, 57805), (51, 57811), (58, 57883), (60, 57907), (62, 57913), (65, 57928), (66, 57940), (67, 57949), (75, 58000), (78, 58012), (88, 58057), (102, 58165), (107, 58204), (110, 58222),

Gene: Clautastrophe_85 Start: 57327, Stop: 57977, Start Num: 20

Candidate Starts for Clautastrophe_85:

(Start: 20 @57327 has 25 MA's), (Start: 24 @57363 has 1 MA's), (29, 57399), (38, 57453), (39, 57456), (43, 57483), (48, 57519), (50, 57555), (58, 57633), (62, 57663), (64, 57669), (66, 57690), (67, 57699), (69, 57705), (75, 57750), (76, 57753), (88, 57807), (93, 57852), (96, 57873), (102, 57915), (106, 57951), (107, 57954),

Gene: Constella_150 Start: 82508, Stop: 83218, Start Num: 6

Candidate Starts for Constella_150:

(Start: 6 @82508 has 40 MA's), (43, 82730), (46, 82754), (47, 82757), (48, 82766), (51, 82808), (58, 82880), (62, 82910), (65, 82925), (66, 82937), (72, 82976), (88, 83054), (89, 83069), (100, 83150),

Gene: Cosmo_69 Start: 45597, Stop: 46154, Start Num: 32

Candidate Starts for Cosmo_69:

(Start: 32 @45597 has 5 MA's), (36, 45612), (43, 45663), (45, 45678), (61, 45840), (63, 45846), (66, 45870), (67, 45879), (69, 45885), (77, 45939), (80, 45954), (83, 45966), (85, 45975), (91, 46017), (92, 46035), (93, 46041), (94, 46056), (101, 46095), (103, 46104), (107, 46137), (108, 46146),

Gene: Courthouse_152 Start: 80187, Stop: 80897, Start Num: 6

Candidate Starts for Courthouse_152:

(Start: 6 @80187 has 40 MA's), (43, 80409), (46, 80433), (47, 80436), (48, 80445), (58, 80559), (62, 80589), (64, 80595), (65, 80604), (66, 80616), (71, 80652), (72, 80655), (89, 80748), (100, 80829), (104, 80865),

Gene: Crossroads_90 Start: 57736, Stop: 58407, Start Num: 15

Candidate Starts for Crossroads_90:

(Start: 15 @57736 has 4 MA's), (Start: 16 @57739 has 5 MA's), (29, 57829), (38, 57883), (43, 57913), (50, 57985), (51, 57991), (58, 58063), (60, 58087), (62, 58093), (65, 58108), (66, 58120), (69, 58135), (75, 58180), (88, 58237), (102, 58345), (105, 58375), (107, 58384),

Gene: DHan_93 Start: 57956, Stop: 58609, Start Num: 21

Candidate Starts for DHan_93:

(Start: 21 @57956 has 4 MA's), (29, 58028), (38, 58082), (43, 58112), (50, 58184), (51, 58190), (54, 58229), (58, 58262), (60, 58286), (62, 58292), (65, 58307), (66, 58319), (67, 58328), (75, 58379), (88, 58436), (102, 58544), (107, 58583), (110, 58601),

Gene: Dallas_158 Start: 84692, Stop: 85402, Start Num: 6

Candidate Starts for Dallas_158:

(Start: 6 @84692 has 40 MA's), (43, 84914), (46, 84938), (47, 84941), (48, 84950), (57, 85049), (58, 85064), (62, 85094), (65, 85109), (66, 85121), (72, 85160), (88, 85238), (89, 85253), (100, 85334),

Gene: DanBing_89 Start: 57454, Stop: 58140, Start Num: 12

Candidate Starts for DanBing_89:

(Start: 12 @57454 has 14 MA's), (Start: 18 @57478 has 1 MA's), (29, 57559), (38, 57613), (43, 57643), (50, 57715), (51, 57721), (58, 57793), (60, 57817), (62, 57823), (66, 57850), (67, 57859), (75, 57910), (88, 57967), (102, 58075), (107, 58114), (110, 58132),

Gene: Diminimus_59 Start: 40661, Stop: 41248, Start Num: 26

Candidate Starts for Diminimus_59:

(Start: 26 @40661 has 22 MA's), (34, 40706), (35, 40709), (36, 40712), (48, 40796), (73, 41015), (74, 41021), (75, 41027), (84, 41066), (96, 41153), (99, 41174), (103, 41195), (104, 41213),

Gene: DmpstrDiver_158 Start: 83419, Stop: 84129, Start Num: 6

Candidate Starts for DmpstrDiver_158:

(Start: 6 @83419 has 40 MA's), (43, 83641), (46, 83665), (47, 83668), (48, 83677), (57, 83776), (58, 83791), (62, 83821), (65, 83836), (66, 83848), (72, 83887), (88, 83965), (89, 83980), (100, 84061),

Gene: Douge_91 Start: 56944, Stop: 57627, Start Num: 12

Candidate Starts for Douge_91:

(Start: 12 @56944 has 14 MA's), (Start: 18 @56968 has 1 MA's), (38, 57100), (43, 57130), (45, 57145), (48, 57166), (50, 57202), (60, 57304), (64, 57316), (65, 57325), (66, 57337), (67, 57346), (69, 57352), (75, 57397), (78, 57409), (86, 57442), (88, 57454), (107, 57601),

Gene: Douzhi_91 Start: 57210, Stop: 57899, Start Num: 12

Candidate Starts for Douzhi_91:

(Start: 12 @57210 has 14 MA's), (29, 57318), (37, 57357), (38, 57372), (39, 57375), (45, 57417), (48, 57438), (50, 57474), (60, 57576), (64, 57588), (65, 57597), (66, 57609), (67, 57618), (69, 57624), (75, 57669), (78, 57681), (86, 57714), (88, 57726), (107, 57873),

Gene: Dove_145 Start: 79831, Stop: 80541, Start Num: 6

Candidate Starts for Dove_145:

(Start: 6 @79831 has 40 MA's), (43, 80053), (46, 80077), (47, 80080), (48, 80089), (57, 80188), (58, 80203), (62, 80233), (64, 80239), (65, 80248), (66, 80260), (72, 80299), (89, 80392), (100, 80473), (104, 80509),

Gene: DrSeegs_89 Start: 58042, Stop: 58695, Start Num: 20

Candidate Starts for DrSeegs_89:

(Start: 20 @58042 has 25 MA's), (29, 58117), (38, 58171), (43, 58201), (50, 58273), (51, 58279), (58, 58351), (60, 58375), (62, 58381), (65, 58396), (66, 58408), (69, 58423), (75, 58468), (88, 58525), (102, 58633), (105, 58663), (107, 58672),

Gene: Duke13_156 Start: 82773, Stop: 83483, Start Num: 6

Candidate Starts for Duke13_156:

(Start: 6 @82773 has 40 MA's), (43, 82995), (46, 83019), (47, 83022), (48, 83031), (62, 83175), (64, 83181), (65, 83190), (66, 83202), (72, 83241), (88, 83319), (89, 83334), (100, 83415),

Gene: Dulcita_59 Start: 40662, Stop: 41249, Start Num: 26

Candidate Starts for Dulcita_59:

(Start: 26 @40662 has 22 MA's), (34, 40707), (35, 40710), (36, 40713), (48, 40797), (73, 41016), (74, 41022), (75, 41028), (84, 41067), (96, 41154), (99, 41175), (103, 41196), (104, 41214),

Gene: DuncansLeg_87 Start: 57346, Stop: 57996, Start Num: 20

Candidate Starts for DuncansLeg_87:

(Start: 20 @57346 has 25 MA's), (29, 57418), (38, 57472), (39, 57475), (43, 57502), (48, 57538), (50, 57574), (58, 57652), (62, 57682), (64, 57688), (66, 57709), (67, 57718), (69, 57724), (71, 57745), (75, 57769), (76, 57772), (88, 57826), (93, 57871), (96, 57892), (102, 57934), (106, 57970), (107, 57973), (110, 57991),

Gene: DyoEdafos_93 Start: 57362, Stop: 58051, Start Num: 12

Candidate Starts for DyoEdafos_93:

(Start: 12 @57362 has 14 MA's), (Start: 32 @57491 has 5 MA's), (38, 57527), (39, 57530), (43, 57557), (45, 57572), (48, 57593), (49, 57611), (50, 57629), (64, 57743), (65, 57752), (66, 57764), (67, 57773), (69, 57779), (75, 57824), (78, 57836), (86, 57869), (88, 57881), (107, 58028),

Gene: Ejimix_150 Start: 83680, Stop: 84390, Start Num: 6

Candidate Starts for Ejimix_150:

(Start: 6 @83680 has 40 MA's), (43, 83902), (46, 83926), (47, 83929), (48, 83938), (57, 84037), (58, 84052), (62, 84082), (65, 84097), (66, 84109), (72, 84148), (88, 84226), (89, 84241), (100, 84322),

Gene: Ellson_86 Start: 57661, Stop: 58311, Start Num: 20

Candidate Starts for Ellson_86:

(Start: 20 @57661 has 25 MA's), (29, 57733), (38, 57787), (39, 57790), (43, 57817), (48, 57853), (50, 57889), (58, 57967), (62, 57997), (64, 58003), (66, 58024), (67, 58033), (69, 58039), (71, 58060), (75, 58084), (76, 58087), (78, 58096), (88, 58141), (93, 58186), (96, 58207), (102, 58249), (106, 58285), (107, 58288), (110, 58306),

Gene: EniyanLRS_65 Start: 45336, Stop: 45893, Start Num: 32

Candidate Starts for EniyanLRS_65:

(Start: 32 @45336 has 5 MA's), (36, 45351), (43, 45402), (45, 45417), (61, 45579), (63, 45585), (66, 45609), (67, 45618), (69, 45624), (77, 45678), (80, 45693), (83, 45705), (85, 45714), (91, 45756), (92, 45774), (93, 45780), (94, 45795), (101, 45834), (103, 45843), (107, 45876), (108, 45885),

Gene: EricMillard_152 Start: 84116, Stop: 84826, Start Num: 6

Candidate Starts for EricMillard_152:

(Start: 6 @84116 has 40 MA's), (43, 84338), (46, 84362), (47, 84365), (48, 84374), (62, 84518), (64, 84524), (65, 84533), (66, 84545), (72, 84584), (88, 84662), (89, 84677), (100, 84758),

Gene: Estes_66 Start: 42955, Stop: 43551, Start Num: 26

Candidate Starts for Estes_66:

(Start: 26 @42955 has 22 MA's), (34, 43003), (35, 43006), (48, 43096), (57, 43195), (65, 43255), (73, 43315), (74, 43321), (75, 43327), (81, 43354), (91, 43408), (94, 43447), (109, 43543),

Gene: Faith1_90 Start: 57661, Stop: 58332, Start Num: 15

Candidate Starts for Faith1_90:

(Start: 15 @57661 has 4 MA's), (Start: 16 @57664 has 5 MA's), (29, 57754), (38, 57808), (43, 57838), (50, 57910), (51, 57916), (58, 57988), (60, 58012), (62, 58018), (65, 58033), (66, 58045), (69, 58060), (75, 58105), (88, 58162), (102, 58270), (105, 58300), (107, 58309),

Gene: FarmResident_92 Start: 56922, Stop: 57611, Start Num: 12

Candidate Starts for FarmResident_92:

(Start: 12 @56922 has 14 MA's), (29, 57030), (37, 57069), (38, 57084), (39, 57087), (48, 57150), (50, 57186), (60, 57288), (64, 57300), (65, 57309), (66, 57321), (67, 57330), (69, 57336), (75, 57381), (78, 57393), (86, 57426), (88, 57438), (107, 57585),

Gene: Finemlucis_91 Start: 58780, Stop: 59463, Start Num: 12

Candidate Starts for Finemlucis_91:

(Start: 12 @58780 has 14 MA's), (29, 58885), (38, 58939), (43, 58969), (50, 59041), (51, 59047), (58, 59119), (60, 59143), (62, 59149), (65, 59164), (66, 59176), (69, 59191), (75, 59236), (88, 59293), (102, 59401), (105, 59431), (107, 59440),

Gene: Finnry_87 Start: 57677, Stop: 58330, Start Num: 20

Candidate Starts for Finnry_87:

(Start: 20 @57677 has 25 MA's), (Start: 24 @57716 has 1 MA's), (29, 57752), (38, 57806), (39, 57809), (43, 57836), (48, 57872), (50, 57908), (58, 57986), (62, 58016), (64, 58022), (66, 58043), (67, 58052), (69, 58058), (75, 58103), (76, 58106), (88, 58160), (93, 58205), (96, 58226), (102, 58268), (106, 58304), (107, 58307),

Gene: FreakyGoo_59 Start: 40662, Stop: 41249, Start Num: 26

Candidate Starts for FreakyGoo_59:

(Start: 26 @40662 has 22 MA's), (34, 40707), (35, 40710), (36, 40713), (48, 40797), (73, 41016), (74, 41022), (75, 41028), (84, 41067), (96, 41154), (99, 41175), (103, 41196), (104, 41214),

Gene: Gabriela_90 Start: 57010, Stop: 57678, Start Num: 16

Candidate Starts for Gabriela_90:

(Start: 15 @57007 has 4 MA's), (Start: 16 @57010 has 5 MA's), (29, 57100), (38, 57154), (43, 57184), (50, 57256), (51, 57262), (58, 57334), (60, 57358), (62, 57364), (65, 57379), (66, 57391), (69, 57406), (75, 57451), (88, 57508), (102, 57616), (105, 57646), (107, 57655),

Gene: Gaia_118 Start: 66289, Stop: 66987, Start Num: 8

Candidate Starts for Gaia_118:

(7, 66286), (Start: 8 @66289 has 2 MA's), (14, 66313), (17, 66322), (41, 66478), (43, 66499), (45, 66514), (46, 66523), (47, 66526), (48, 66535), (49, 66553), (54, 66616), (57, 66634), (66, 66706), (69, 66721), (70, 66736), (75, 66766), (82, 66793), (86, 66811), (88, 66823), (90, 66841), (93, 66868), (104, 66955), (107, 66970),

Gene: Gardann_90 Start: 57496, Stop: 58179, Start Num: 12

Candidate Starts for Gardann_90:

(Start: 12 @57496 has 14 MA's), (Start: 18 @57520 has 1 MA's), (Start: 24 @57565 has 1 MA's), (29, 57601), (38, 57655), (43, 57685), (50, 57757), (58, 57835), (60, 57859), (62, 57865), (65, 57880), (66, 57892), (69, 57907), (75, 57952), (88, 58009), (102, 58117), (105, 58147), (107, 58156),

Gene: GardenSalsa_66 Start: 43117, Stop: 43713, Start Num: 26

Candidate Starts for GardenSalsa_66:

(Start: 26 @43117 has 22 MA's), (34, 43165), (35, 43168), (48, 43258), (57, 43357), (65, 43417), (73, 43477), (74, 43483), (75, 43489), (91, 43570), (94, 43609), (105, 43684), (109, 43705),

Gene: GenevaB15_65 Start: 42683, Stop: 43279, Start Num: 26

Candidate Starts for GenevaB15_65:

(Start: 26 @42683 has 22 MA's), (34, 42731), (35, 42734), (48, 42824), (57, 42923), (65, 42983), (73, 43043), (74, 43049), (75, 43055), (81, 43082), (91, 43136), (94, 43175), (108, 43268), (109, 43271),

Gene: Glaske16_59 Start: 40661, Stop: 41248, Start Num: 26

Candidate Starts for Glaske16_59:

(Start: 26 @40661 has 22 MA's), (34, 40706), (35, 40709), (36, 40712), (48, 40796), (73, 41015), (74, 41021), (75, 41027), (84, 41066), (88, 41087), (96, 41153), (99, 41174), (103, 41195), (104, 41213),

Gene: Gonephishing_151 Start: 82284, Stop: 82994, Start Num: 6

Candidate Starts for Gonephishing_151:

(Start: 6 @82284 has 40 MA's), (43, 82506), (46, 82530), (47, 82533), (48, 82542), (62, 82686), (64, 82692), (65, 82701), (66, 82713), (71, 82749), (72, 82752), (89, 82845), (100, 82926), (104, 82962),

Gene: GuuelaD_87 Start: 57623, Stop: 58291, Start Num: 16

Candidate Starts for GuuelaD_87:

(Start: 15 @57620 has 4 MA's), (Start: 16 @57623 has 5 MA's), (29, 57713), (38, 57767), (43, 57797), (50, 57869), (51, 57875), (58, 57947), (60, 57971), (62, 57977), (65, 57992), (66, 58004), (69, 58019), (75, 58064), (88, 58121), (102, 58229), (105, 58259), (107, 58268),

Gene: Hafay_90 Start: 57572, Stop: 58225, Start Num: 21

Candidate Starts for Hafay_90:

(Start: 21 @57572 has 4 MA's), (29, 57644), (38, 57698), (43, 57728), (50, 57800), (51, 57806), (58, 57878), (60, 57902), (62, 57908), (65, 57923), (66, 57935), (67, 57944), (75, 57995), (78, 58007), (88, 58052), (102, 58160), (107, 58199), (110, 58217),

Gene: Halley_159 Start: 83996, Stop: 84706, Start Num: 6

Candidate Starts for Halley_159:

(Start: 6 @83996 has 40 MA's), (43, 84218), (46, 84242), (47, 84245), (48, 84254), (57, 84353), (58, 84368), (62, 84398), (65, 84413), (66, 84425), (72, 84464), (88, 84542), (89, 84557), (100, 84638),

Gene: Hannaconda_151 Start: 84288, Stop: 84998, Start Num: 6

Candidate Starts for Hannaconda_151:

(Start: 6 @84288 has 40 MA's), (43, 84510), (46, 84534), (47, 84537), (48, 84546), (62, 84690), (64, 84696), (65, 84705), (66, 84717), (71, 84753), (72, 84756), (89, 84849), (100, 84930), (104, 84966),

Gene: Hidrated_146 Start: 83298, Stop: 84008, Start Num: 6

Candidate Starts for Hidrated_146:

(Start: 6 @83298 has 40 MA's), (43, 83520), (46, 83544), (47, 83547), (48, 83556), (57, 83655), (58, 83670), (62, 83700), (64, 83706), (65, 83715), (66, 83727), (72, 83766), (89, 83859), (100, 83940), (104, 83976),

Gene: HokkenD_153 Start: 85553, Stop: 86263, Start Num: 6

Candidate Starts for HokkenD_153:

(Start: 6 @85553 has 40 MA's), (43, 85775), (46, 85799), (47, 85802), (48, 85811), (57, 85910), (58, 85925), (62, 85955), (64, 85961), (65, 85970), (66, 85982), (72, 86021), (89, 86114), (100, 86195), (104, 86231),

Gene: Hughesyang_158 Start: 84577, Stop: 85284, Start Num: 6

Candidate Starts for Hughesyang_158:

(2, 84514), (3, 84529), (Start: 6 @84577 has 40 MA's), (23, 84652), (43, 84799), (48, 84832), (55, 84919), (58, 84946), (62, 84976), (64, 84982), (65, 84991), (66, 85003), (72, 85042), (88, 85120), (89, 85135), (99, 85213), (100, 85216), (104, 85252), (107, 85267),

Gene: IPHane7_58 Start: 40666, Stop: 41253, Start Num: 26

Candidate Starts for IPHane7_58:

(Start: 26 @40666 has 22 MA's), (34, 40711), (35, 40714), (36, 40717), (48, 40801), (73, 41020), (74, 41026), (75, 41032), (84, 41071), (96, 41158), (99, 41179), (103, 41200), (104, 41218),

Gene: Itos_90 Start: 56570, Stop: 57238, Start Num: 16

Candidate Starts for Itos_90:

(Start: 15 @56567 has 4 MA's), (Start: 16 @56570 has 5 MA's), (29, 56660), (38, 56714), (43, 56744), (50, 56816), (51, 56822), (58, 56894), (60, 56918), (62, 56924), (65, 56939), (66, 56951), (69, 56966), (75, 57011), (88, 57068), (102, 57176), (105, 57206), (107, 57215),

Gene: Izel_59 Start: 40661, Stop: 41248, Start Num: 26

Candidate Starts for Izel_59:

(Start: 26 @40661 has 22 MA's), (34, 40706), (35, 40709), (36, 40712), (48, 40796), (73, 41015), (74, 41021), (75, 41027), (84, 41066), (96, 41153), (99, 41174), (103, 41195), (104, 41213),

Gene: Jobypre_87 Start: 57327, Stop: 57977, Start Num: 20

Candidate Starts for Jobypre_87:

(Start: 20 @57327 has 25 MA's), (Start: 24 @57363 has 1 MA's), (29, 57399), (38, 57453), (39, 57456), (43, 57483), (48, 57519), (50, 57555), (58, 57633), (62, 57663), (64, 57669), (66, 57690), (67, 57699), (69, 57705), (75, 57750), (76, 57753), (88, 57807), (93, 57852), (96, 57873), (102, 57915), (106, 57951), (107, 57954),

Gene: Jubie_86 Start: 57462, Stop: 58112, Start Num: 20

Candidate Starts for Jubie_86:

(Start: 20 @57462 has 25 MA's), (Start: 24 @57498 has 1 MA's), (29, 57534), (38, 57588), (39, 57591), (43, 57618), (48, 57654), (50, 57690), (58, 57768), (62, 57798), (64, 57804), (66, 57825), (67, 57834), (69, 57840), (75, 57885), (76, 57888), (88, 57942), (93, 57987), (96, 58008), (102, 58050), (106, 58086), (107, 58089),

Gene: JuicyJay_153 Start: 85200, Stop: 85910, Start Num: 6

Candidate Starts for JuicyJay_153:

(Start: 6 @85200 has 40 MA's), (43, 85422), (46, 85446), (47, 85449), (48, 85458), (57, 85557), (58, 85572), (62, 85602), (64, 85608), (65, 85617), (66, 85629), (72, 85668), (89, 85761), (100, 85842), (104, 85878),

Gene: Kahlid_89 Start: 57414, Stop: 58097, Start Num: 12

Candidate Starts for Kahlid_89:

(Start: 12 @57414 has 14 MA's), (Start: 18 @57438 has 1 MA's), (Start: 24 @57483 has 1 MA's), (29, 57519), (38, 57573), (43, 57603), (50, 57675), (51, 57681), (58, 57753), (60, 57777), (62, 57783), (65, 57798), (66, 57810), (69, 57825), (75, 57870), (88, 57927), (102, 58035), (105, 58065), (107, 58074),

Gene: Kalah2_150 Start: 83707, Stop: 84414, Start Num: 6

Candidate Starts for Kalah2_150:

(2, 83644), (3, 83659), (Start: 6 @83707 has 40 MA's), (23, 83782), (43, 83929), (48, 83962), (55, 84049), (58, 84076), (62, 84106), (64, 84112), (65, 84121), (66, 84133), (72, 84172), (88, 84250), (89, 84265), (100, 84346),

Gene: KashFlow_156 Start: 84101, Stop: 84811, Start Num: 6

Candidate Starts for KashFlow_156:

(Start: 6 @84101 has 40 MA's), (43, 84323), (46, 84347), (47, 84350), (48, 84359), (62, 84503), (64, 84509), (65, 84518), (66, 84530), (71, 84566), (72, 84569), (89, 84662), (98, 84728), (100, 84743), (104, 84779),

Gene: Kingsolomon_85 Start: 57433, Stop: 58086, Start Num: 20

Candidate Starts for Kingsolomon_85:

(Start: 20 @57433 has 25 MA's), (Start: 24 @57472 has 1 MA's), (29, 57508), (38, 57562), (39, 57565), (43, 57592), (48, 57628), (50, 57664), (58, 57742), (62, 57772), (64, 57778), (66, 57799), (67, 57808), (69, 57814), (75, 57859), (76, 57862), (88, 57916), (93, 57961), (96, 57982), (102, 58024), (106, 58060), (107, 58063),

Gene: KirDoubleO7_85 Start: 57348, Stop: 57998, Start Num: 20

Candidate Starts for KirDoubleO7_85:

(Start: 20 @57348 has 25 MA's), (29, 57420), (38, 57474), (39, 57477), (43, 57504), (48, 57540), (50, 57576), (58, 57654), (62, 57684), (64, 57690), (66, 57711), (67, 57720), (69, 57726), (71, 57747), (75, 57771), (76, 57774), (78, 57783), (88, 57828), (93, 57873), (96, 57894), (102, 57936), (106, 57972), (107, 57975), (110, 57993),

Gene: Klein_157 Start: 82067, Stop: 82774, Start Num: 6

Candidate Starts for Klein_157:

(Start: 6 @82067 has 40 MA's), (43, 82289), (48, 82322), (55, 82409), (58, 82436), (62, 82466), (64, 82472), (65, 82481), (66, 82493), (72, 82532), (88, 82610), (89, 82625), (99, 82703), (100, 82706), (104, 82742), (107, 82757),

Gene: KleverKiS_59 Start: 40642, Stop: 41229, Start Num: 26

Candidate Starts for KleverKiS_59:

(Start: 26 @40642 has 22 MA's), (34, 40687), (35, 40690), (36, 40693), (48, 40777), (73, 40996), (74, 41002), (75, 41008), (84, 41047), (88, 41068), (96, 41134), (99, 41155), (103, 41176), (104, 41194),

Gene: Kropertea_85 Start: 56642, Stop: 57334, Start Num: 12

Candidate Starts for Kropertea_85:

(Start: 12 @56642 has 14 MA's), (Start: 32 @56771 has 5 MA's), (38, 56807), (39, 56810), (43, 56837), (45, 56852), (48, 56873), (49, 56891), (50, 56909), (64, 57023), (65, 57032), (66, 57044), (67, 57053), (69, 57059), (75, 57104), (78, 57116), (86, 57149), (88, 57161), (107, 57308),

Gene: Krypton555_88 Start: 57701, Stop: 58354, Start Num: 20

Candidate Starts for Krypton555_88:

(Start: 20 @57701 has 25 MA's), (29, 57776), (38, 57830), (39, 57833), (43, 57860), (50, 57932), (58, 58010), (62, 58040), (64, 58046), (66, 58067), (67, 58076), (69, 58082), (75, 58127), (76, 58130), (88, 58184), (93, 58229), (96, 58250), (102, 58292), (106, 58328), (107, 58331),

Gene: Kumao_49 Start: 39571, Stop: 40182, Start Num: 24

Candidate Starts for Kumao_49:

(Start: 24 @39571 has 1 MA's), (30, 39607), (36, 39634), (40, 39661), (42, 39673), (44, 39697), (52, 39790), (61, 39862), (64, 39871), (66, 39892), (73, 39940), (87, 40009), (88, 40012), (91, 40033), (108, 40162),

Gene: Lewan_91 Start: 57620, Stop: 58306, Start Num: 12

Candidate Starts for Lewan_91:

(Start: 12 @57620 has 14 MA's), (Start: 18 @57644 has 1 MA's), (29, 57725), (38, 57779), (43, 57809), (50, 57881), (51, 57887), (58, 57959), (60, 57983), (62, 57989), (65, 58004), (66, 58016), (69, 58031), (75, 58076), (88, 58133), (102, 58241), (105, 58271), (107, 58280),

Gene: LilDestine_88 Start: 57333, Stop: 57986, Start Num: 21

Candidate Starts for LilDestine_88:

(Start: 21 @57333 has 4 MA's), (29, 57405), (38, 57459), (43, 57489), (50, 57561), (51, 57567), (54, 57606), (58, 57639), (60, 57663), (62, 57669), (65, 57684), (66, 57696), (67, 57705), (75, 57756), (88, 57813), (102, 57921), (107, 57960), (110, 57978),

Gene: LilhomieP_57 Start: 40666, Stop: 41253, Start Num: 26

Candidate Starts for LilhomieP_57:

(Start: 26 @40666 has 22 MA's), (34, 40711), (35, 40714), (36, 40717), (48, 40801), (73, 41020), (74, 41026), (75, 41032), (84, 41071), (96, 41158), (99, 41179), (103, 41200), (104, 41218),

Gene: LittleE_159 Start: 83924, Stop: 84634, Start Num: 6

Candidate Starts for LittleE_159:

(2, 83861), (4, 83879), (Start: 6 @83924 has 40 MA's), (23, 83999), (43, 84146), (46, 84170), (47, 84173), (48, 84182), (58, 84296), (62, 84326), (64, 84332), (65, 84341), (66, 84353), (71, 84389), (72, 84392), (86, 84458), (89, 84485), (100, 84566), (104, 84602), (107, 84617),

Gene: LiyuLake_86 Start: 57421, Stop: 58071, Start Num: 20

Candidate Starts for LiyuLake_86:

(Start: 20 @57421 has 25 MA's), (29, 57493), (38, 57547), (39, 57550), (43, 57577), (48, 57613), (50, 57649), (58, 57727), (62, 57757), (64, 57763), (66, 57784), (67, 57793), (69, 57799), (71, 57820), (75, 57844), (76, 57847), (78, 57856), (88, 57901), (93, 57946), (96, 57967), (102, 58009), (106, 58045), (107, 58048), (110, 58066),

Gene: Loadrie_89 Start: 57831, Stop: 58499, Start Num: 16

Candidate Starts for Loadrie_89:

(Start: 15 @57828 has 4 MA's), (Start: 16 @57831 has 5 MA's), (29, 57921), (38, 57975), (43, 58005), (50, 58077), (51, 58083), (58, 58155), (60, 58179), (62, 58185), (65, 58200), (66, 58212), (69, 58227), (75, 58272), (88, 58329), (102, 58437), (105, 58467), (107, 58476),

Gene: Lolly9_86 Start: 57509, Stop: 58162, Start Num: 20

Candidate Starts for Lolly9_86:

(Start: 20 @57509 has 25 MA's), (29, 57584), (38, 57638), (39, 57641), (43, 57668), (45, 57683), (48, 57704), (50, 57740), (53, 57776), (58, 57818), (62, 57848), (64, 57854), (66, 57875), (67, 57884), (69, 57890), (75, 57935), (76, 57938), (88, 57992), (93, 58037), (96, 58058), (102, 58100), (106, 58136), (107, 58139),

Gene: Lucky2013_149 Start: 79061, Stop: 79771, Start Num: 6

Candidate Starts for Lucky2013_149:

(Start: 6 @79061 has 40 MA's), (43, 79283), (46, 79307), (47, 79310), (48, 79319), (62, 79463), (64, 79469), (65, 79478), (66, 79490), (72, 79529), (88, 79607), (89, 79622), (100, 79703),

Gene: Lumos_87 Start: 57324, Stop: 57974, Start Num: 20

Candidate Starts for Lumos_87:

(Start: 20 @57324 has 25 MA's), (Start: 24 @57360 has 1 MA's), (29, 57396), (38, 57450), (39, 57453), (43, 57480), (48, 57516), (50, 57552), (58, 57630), (62, 57660), (64, 57666), (66, 57687), (67, 57696), (69, 57702), (75, 57747), (76, 57750), (88, 57804), (93, 57849), (96, 57870), (102, 57912), (106, 57948), (107, 57951),

Gene: Lynnae_91 Start: 57426, Stop: 58109, Start Num: 12

Candidate Starts for Lynnae_91:

(Start: 12 @57426 has 14 MA's), (Start: 18 @57450 has 1 MA's), (Start: 24 @57495 has 1 MA's), (29, 57531), (38, 57585), (43, 57615), (50, 57687), (51, 57693), (58, 57765), (60, 57789), (62, 57795), (65, 57810), (66, 57822), (69, 57837), (75, 57882), (88, 57939), (102, 58047), (105, 58077), (107, 58086),

Gene: Marleymoo_142 Start: 81207, Stop: 81917, Start Num: 6

Candidate Starts for Marleymoo_142:

(Start: 6 @81207 has 40 MA's), (23, 81282), (43, 81429), (46, 81453), (47, 81456), (48, 81465), (51, 81507), (58, 81579), (62, 81609), (65, 81624), (66, 81636), (72, 81675), (89, 81768), (98, 81834), (100, 81849), (104, 81885),

Gene: MaryV_68 Start: 45418, Stop: 45975, Start Num: 32

Candidate Starts for MaryV_68:

(Start: 32 @45418 has 5 MA's), (36, 45433), (43, 45484), (45, 45499), (61, 45661), (63, 45667), (66, 45691), (67, 45700), (69, 45706), (77, 45760), (80, 45775), (83, 45787), (85, 45796), (91, 45838), (92, 45856), (93, 45862), (94, 45877), (101, 45916), (103, 45925), (107, 45958), (108, 45967),

Gene: MiaZeal_156 Start: 80208, Stop: 80918, Start Num: 6

Candidate Starts for MiaZeal_156:

(Start: 6 @80208 has 40 MA's), (43, 80430), (46, 80454), (47, 80457), (48, 80466), (62, 80610), (64, 80616), (65, 80625), (66, 80637), (72, 80676), (88, 80754), (89, 80769), (100, 80850),

Gene: Miley16_90 Start: 58042, Stop: 58695, Start Num: 20

Candidate Starts for Miley16_90:

(Start: 20 @58042 has 25 MA's), (29, 58117), (38, 58171), (43, 58201), (50, 58273), (51, 58279), (58, 58351), (60, 58375), (62, 58381), (65, 58396), (66, 58408), (69, 58423), (75, 58468), (88, 58525), (102, 58633), (105, 58663), (107, 58672),

Gene: Minerva_157 Start: 83303, Stop: 84013, Start Num: 6

Candidate Starts for Minerva_157:

(Start: 6 @83303 has 40 MA's), (43, 83525), (46, 83549), (47, 83552), (48, 83561), (57, 83660), (58, 83675), (62, 83705), (65, 83720), (66, 83732), (72, 83771), (88, 83849), (89, 83864), (100, 83945),

Gene: MiniLon_91 Start: 57510, Stop: 58163, Start Num: 20

Candidate Starts for MiniLon_91:

(Start: 20 @57510 has 25 MA's), (29, 57585), (38, 57639), (39, 57642), (43, 57669), (45, 57684), (48, 57705), (50, 57741), (53, 57777), (58, 57819), (62, 57849), (64, 57855), (66, 57876), (67, 57885), (69, 57891), (75, 57936), (76, 57939), (88, 57993), (93, 58038), (96, 58059), (102, 58101), (106, 58137), (107, 58140),

Gene: MiniMac_91 Start: 57505, Stop: 58158, Start Num: 20

Candidate Starts for MiniMac_91:

(Start: 20 @57505 has 25 MA's), (29, 57580), (38, 57634), (39, 57637), (43, 57664), (45, 57679), (48, 57700), (50, 57736), (53, 57772), (58, 57814), (62, 57844), (64, 57850), (66, 57871), (67, 57880), (69, 57886), (75, 57931), (76, 57934), (88, 57988), (93, 58033), (96, 58054), (102, 58096), (106, 58132), (107, 58135),

Gene: MkaliMitinis3_92 Start: 57779, Stop: 58462, Start Num: 12

Candidate Starts for MkaliMitinis3_92:

(Start: 12 @57779 has 14 MA's), (Start: 18 @57803 has 1 MA's), (Start: 24 @57848 has 1 MA's), (29, 57884), (38, 57938), (43, 57968), (50, 58040), (51, 58046), (58, 58118), (60, 58142), (62, 58148), (65, 58163), (66, 58175), (69, 58190), (75, 58235), (88, 58292), (102, 58400), (105, 58430), (107, 58439),

Gene: Moostard_85 Start: 57428, Stop: 58081, Start Num: 20

Candidate Starts for Moostard_85:

(Start: 20 @57428 has 25 MA's), (Start: 24 @57467 has 1 MA's), (29, 57503), (38, 57557), (39, 57560), (43, 57587), (48, 57623), (50, 57659), (58, 57737), (62, 57767), (64, 57773), (66, 57794), (67, 57803), (69, 57809), (75, 57854), (76, 57857), (88, 57911), (93, 57956), (96, 57977), (102, 58019), (106, 58055), (107, 58058),

Gene: MrMagoo_67 Start: 43117, Stop: 43713, Start Num: 26

Candidate Starts for MrMagoo_67:

(Start: 26 @43117 has 22 MA's), (34, 43165), (35, 43168), (48, 43258), (57, 43357), (65, 43417), (73, 43477), (74, 43483), (75, 43489), (91, 43570), (94, 43609), (105, 43684), (109, 43705),

Gene: MsGreen_87 Start: 57326, Stop: 57976, Start Num: 20

Candidate Starts for MsGreen_87:

(Start: 20 @57326 has 25 MA's), (Start: 24 @57362 has 1 MA's), (29, 57398), (38, 57452), (39, 57455), (43, 57482), (48, 57518), (50, 57554), (58, 57632), (62, 57662), (64, 57668), (66, 57689), (67, 57698),

(69, 57704), (75, 57749), (76, 57752), (88, 57806), (93, 57851), (96, 57872), (102, 57914), (106, 57950), (107, 57953),

Gene: Nanosmite_63 Start: 42310, Stop: 42903, Start Num: 26

Candidate Starts for Nanosmite_63:

(Start: 26 @42310 has 22 MA's), (34, 42358), (45, 42430), (55, 42538), (59, 42571), (73, 42670), (74, 42676), (75, 42682), (84, 42721), (93, 42787), (103, 42850), (108, 42892),

Gene: Nebkiss_119 Start: 65215, Stop: 65913, Start Num: 8

Candidate Starts for Nebkiss_119:

(7, 65212), (Start: 8 @65215 has 2 MA's), (14, 65239), (17, 65248), (41, 65404), (43, 65425), (45, 65440), (46, 65449), (47, 65452), (48, 65461), (49, 65479), (54, 65542), (57, 65560), (66, 65632), (69, 65647), (70, 65662), (75, 65692), (82, 65719), (86, 65737), (88, 65749), (90, 65767), (93, 65794), (104, 65881), (107, 65896),

Gene: Nekros_155 Start: 83601, Stop: 84311, Start Num: 6

Candidate Starts for Nekros_155:

(Start: 6 @83601 has 40 MA's), (43, 83823), (46, 83847), (47, 83850), (48, 83859), (62, 84003), (64, 84009), (65, 84018), (66, 84030), (71, 84066), (72, 84069), (89, 84162), (100, 84243), (104, 84279),

Gene: Netyap_89 Start: 57662, Stop: 58333, Start Num: 15

Candidate Starts for Netyap_89:

(Start: 15 @57662 has 4 MA's), (Start: 16 @57665 has 5 MA's), (29, 57755), (38, 57809), (43, 57839), (50, 57911), (51, 57917), (58, 57989), (60, 58013), (62, 58019), (65, 58034), (66, 58046), (69, 58061), (75, 58106), (88, 58163), (102, 58271), (105, 58301), (107, 58310),

Gene: Nibley_150 Start: 80167, Stop: 80877, Start Num: 6

Candidate Starts for Nibley_150:

(Start: 6 @80167 has 40 MA's), (43, 80389), (46, 80413), (47, 80416), (48, 80425), (62, 80569), (64, 80575), (65, 80584), (66, 80596), (71, 80632), (72, 80635), (89, 80728), (98, 80794), (100, 80809), (104, 80845),

Gene: Nicholas_85 Start: 57433, Stop: 58086, Start Num: 20

Candidate Starts for Nicholas_85:

(Start: 20 @57433 has 25 MA's), (Start: 24 @57472 has 1 MA's), (29, 57508), (38, 57562), (39, 57565), (43, 57592), (48, 57628), (50, 57664), (58, 57742), (62, 57772), (64, 57778), (66, 57799), (67, 57808), (69, 57814), (75, 57859), (76, 57862), (88, 57916), (93, 57961), (96, 57982), (102, 58024), (106, 58060), (107, 58063),

Gene: Nicholasp3_90 Start: 57496, Stop: 58179, Start Num: 12

Candidate Starts for Nicholasp3_90:

(Start: 12 @57496 has 14 MA's), (Start: 18 @57520 has 1 MA's), (Start: 24 @57565 has 1 MA's), (29, 57601), (38, 57655), (43, 57685), (50, 57757), (58, 57835), (60, 57859), (62, 57865), (65, 57880), (66, 57892), (69, 57907), (75, 57952), (88, 58009), (102, 58117), (105, 58147), (107, 58156),

Gene: NihilNomen_160 Start: 83326, Stop: 84036, Start Num: 6

Candidate Starts for NihilNomen_160:

(Start: 6 @83326 has 40 MA's), (43, 83548), (46, 83572), (47, 83575), (48, 83584), (57, 83683), (58, 83698), (62, 83728), (64, 83734), (65, 83743), (66, 83755), (72, 83794), (89, 83887), (100, 83968), (104, 84004),

Gene: Odette_162 Start: 85622, Stop: 86332, Start Num: 6

Candidate Starts for Odette_162:

(Start: 6 @85622 has 40 MA's), (43, 85844), (46, 85868), (47, 85871), (48, 85880), (58, 85994), (62, 86024), (64, 86030), (65, 86039), (66, 86051), (71, 86087), (72, 86090), (89, 86183), (98, 86249), (100, 86264), (104, 86300),

Gene: Omega_163 Start: 85097, Stop: 85807, Start Num: 6

Candidate Starts for Omega_163:

(Start: 6 @85097 has 40 MA's), (23, 85172), (43, 85319), (46, 85343), (47, 85346), (48, 85355), (51, 85397), (62, 85499), (65, 85514), (66, 85526), (72, 85565), (88, 85643), (89, 85658), (100, 85739),

Gene: Optimus_150 Start: 82593, Stop: 83303, Start Num: 6

Candidate Starts for Optimus_150:

(Start: 6 @82593 has 40 MA's), (43, 82815), (46, 82839), (47, 82842), (48, 82851), (62, 82995), (64, 83001), (65, 83010), (66, 83022), (72, 83061), (88, 83139), (89, 83154), (100, 83235),

Gene: OverPar_92 Start: 57831, Stop: 58499, Start Num: 16

Candidate Starts for OverPar_92:

(Start: 15 @57828 has 4 MA's), (Start: 16 @57831 has 5 MA's), (29, 57921), (38, 57975), (43, 58005), (50, 58077), (51, 58083), (58, 58155), (60, 58179), (62, 58185), (65, 58200), (66, 58212), (69, 58227), (75, 58272), (88, 58329), (102, 58437), (105, 58467), (107, 58476),

Gene: PYPDinur_91 Start: 57773, Stop: 58462, Start Num: 12

Candidate Starts for PYPDinur_91:

(Start: 12 @57773 has 14 MA's), (29, 57881), (37, 57920), (38, 57935), (39, 57938), (45, 57980), (48, 58001), (50, 58037), (60, 58139), (64, 58151), (65, 58160), (66, 58172), (67, 58181), (69, 58187), (75, 58232), (78, 58244), (86, 58277), (88, 58289), (107, 58436),

Gene: PegLeg_58 Start: 40665, Stop: 41252, Start Num: 26

Candidate Starts for PegLeg_58:

(Start: 26 @40665 has 22 MA's), (34, 40710), (35, 40713), (36, 40716), (48, 40800), (73, 41019), (74, 41025), (75, 41031), (84, 41070), (88, 41091), (96, 41157), (99, 41178), (103, 41199), (104, 41217),

Gene: Phoebus_159 Start: 87013, Stop: 87723, Start Num: 6

Candidate Starts for Phoebus_159:

(Start: 6 @87013 has 40 MA's), (43, 87235), (46, 87259), (47, 87262), (48, 87271), (57, 87370), (58, 87385), (62, 87415), (64, 87421), (65, 87430), (66, 87442), (72, 87481), (89, 87574), (100, 87655), (104, 87691),

Gene: Porcelain_153 Start: 80007, Stop: 80717, Start Num: 6

Candidate Starts for Porcelain_153:

(Start: 6 @80007 has 40 MA's), (43, 80229), (46, 80253), (47, 80256), (48, 80265), (62, 80409), (64, 80415), (65, 80424), (66, 80436), (72, 80475), (88, 80553), (89, 80568), (100, 80649),

Gene: Pound_150 Start: 82016, Stop: 82726, Start Num: 6

Candidate Starts for Pound_150:

(Start: 6 @82016 has 40 MA's), (23, 82091), (43, 82238), (47, 82265), (48, 82274), (51, 82316), (58, 82388), (62, 82418), (65, 82433), (66, 82445), (72, 82484), (89, 82577), (98, 82643), (100, 82658), (104, 82694),

Gene: Quby_91 Start: 57008, Stop: 57697, Start Num: 12

Candidate Starts for Quby_91:

(Start: 12 @57008 has 14 MA's), (29, 57116), (37, 57155), (38, 57170), (39, 57173), (45, 57215), (48, 57236), (50, 57272), (60, 57374), (64, 57386), (65, 57395), (66, 57407), (67, 57416), (69, 57422), (75, 57467), (78, 57479), (86, 57512), (88, 57524), (107, 57671),

Gene: Rearden_151 Start: 80837, Stop: 81547, Start Num: 6

Candidate Starts for Rearden_151:

(Start: 6 @80837 has 40 MA's), (43, 81059), (46, 81083), (47, 81086), (48, 81095), (62, 81239), (64, 81245), (65, 81254), (66, 81266), (71, 81302), (72, 81305), (89, 81398), (100, 81479), (104, 81515),

Gene: Red305_88 Start: 57327, Stop: 57977, Start Num: 20

Candidate Starts for Red305_88:

(Start: 20 @57327 has 25 MA's), (Start: 24 @57363 has 1 MA's), (29, 57399), (38, 57453), (39, 57456), (43, 57483), (48, 57519), (50, 57555), (58, 57633), (62, 57663), (64, 57669), (66, 57690), (67, 57699), (69, 57705), (75, 57750), (76, 57753), (88, 57807), (93, 57852), (96, 57873), (102, 57915), (106, 57951), (107, 57954),

Gene: Redno2_152 Start: 81126, Stop: 81836, Start Num: 6

Candidate Starts for Redno2_152:

(Start: 6 @81126 has 40 MA's), (43, 81348), (46, 81372), (47, 81375), (48, 81384), (57, 81483), (58, 81498), (62, 81528), (64, 81534), (65, 81543), (66, 81555), (72, 81594), (89, 81687), (100, 81768), (104, 81804),

Gene: Reindeer_60 Start: 41854, Stop: 42447, Start Num: 26

Candidate Starts for Reindeer_60:

(Start: 26 @41854 has 22 MA's), (34, 41902), (35, 41905), (55, 42082), (59, 42115), (65, 42154), (67, 42175), (68, 42178), (73, 42214), (75, 42226), (79, 42241), (103, 42394), (108, 42436),

Gene: Rey_65 Start: 42924, Stop: 43520, Start Num: 26

Candidate Starts for Rey_65:

(Start: 26 @42924 has 22 MA's), (31, 42957), (34, 42972), (35, 42975), (57, 43164), (59, 43185), (64, 43215), (65, 43224), (73, 43284), (74, 43290), (75, 43296), (95, 43419), (103, 43467),

Gene: RoseMarie_63 Start: 44122, Stop: 44715, Start Num: 26

Candidate Starts for RoseMarie_63:

(Start: 26 @44122 has 22 MA's), (34, 44170), (39, 44200), (45, 44242), (56, 44359), (59, 44383), (73, 44482), (74, 44488), (75, 44494), (79, 44509), (88, 44554), (92, 44593), (97, 44626), (103, 44662),

Gene: Rossetti_90 Start: 57847, Stop: 58497, Start Num: 20

Candidate Starts for Rossetti_90:

(Start: 20 @57847 has 25 MA's), (29, 57919), (37, 57958), (38, 57973), (39, 57976), (43, 58003), (50, 58075), (51, 58081), (58, 58153), (62, 58183), (65, 58198), (66, 58210), (69, 58225), (75, 58270), (88, 58327), (102, 58435),

Gene: Rumpelstiltskin_86 Start: 57289, Stop: 57972, Start Num: 12

Candidate Starts for Rumpelstiltskin_86:

(Start: 12 @57289 has 14 MA's), (Start: 18 @57313 has 1 MA's), (Start: 24 @57358 has 1 MA's), (29, 57394), (38, 57448), (43, 57478), (50, 57550), (58, 57628), (60, 57652), (62, 57658), (65, 57673), (66, 57685), (69, 57700), (75, 57745), (88, 57802), (102, 57910), (105, 57940), (107, 57949),

Gene: Samty_86 Start: 57421, Stop: 58074, Start Num: 20

Candidate Starts for Samty_86:

(Start: 20 @57421 has 25 MA's), (Start: 24 @57460 has 1 MA's), (29, 57496), (38, 57550), (39, 57553), (43, 57580), (48, 57616), (50, 57652), (58, 57730), (62, 57760), (64, 57766), (66, 57787), (67, 57796), (69, 57802), (75, 57847), (76, 57850), (88, 57904), (93, 57949), (96, 57970), (102, 58012), (106, 58048), (107, 58051),

Gene: Sarshaun_91 Start: 58437, Stop: 59090, Start Num: 20

Candidate Starts for Sarshaun_91:

(Start: 20 @58437 has 25 MA's), (29, 58512), (38, 58566), (43, 58596), (50, 58668), (51, 58674), (58, 58746), (60, 58770), (62, 58776), (65, 58791), (66, 58803), (69, 58818), (75, 58863), (88, 58920), (102, 59028), (105, 59058), (107, 59067),

Gene: Schatzie_153 Start: 83676, Stop: 84386, Start Num: 6

Candidate Starts for Schatzie_153:

(Start: 6 @83676 has 40 MA's), (43, 83898), (46, 83922), (47, 83925), (48, 83934), (58, 84048), (62, 84078), (64, 84084), (65, 84093), (66, 84105), (71, 84141), (72, 84144), (89, 84237), (98, 84303), (100, 84318), (104, 84354),

Gene: Shaboozey_154 Start: 80611, Stop: 81321, Start Num: 6

Candidate Starts for Shaboozey_154:

(Start: 6 @80611 has 40 MA's), (43, 80833), (46, 80857), (47, 80860), (48, 80869), (62, 81013), (64, 81019), (65, 81028), (66, 81040), (71, 81076), (72, 81079), (89, 81172), (98, 81238), (100, 81253), (104, 81289),

Gene: Sheng711_92 Start: 57249, Stop: 57938, Start Num: 12

Candidate Starts for Sheng711_92:

(Start: 12 @57249 has 14 MA's), (29, 57357), (37, 57396), (38, 57411), (39, 57414), (45, 57456), (48, 57477), (50, 57513), (60, 57615), (64, 57627), (65, 57636), (66, 57648), (67, 57657), (69, 57663), (75, 57708), (78, 57720), (86, 57753), (88, 57765), (107, 57912),

Gene: Skinny_60 Start: 41095, Stop: 41682, Start Num: 26

Candidate Starts for Skinny_60:

(Start: 26 @41095 has 22 MA's), (34, 41140), (35, 41143), (36, 41146), (48, 41230), (73, 41449), (74, 41455), (75, 41461), (84, 41500), (96, 41587), (99, 41608), (103, 41629), (104, 41647),

Gene: SlimJimmy_57 Start: 40650, Stop: 41237, Start Num: 26

Candidate Starts for SlimJimmy_57:

(Start: 26 @40650 has 22 MA's), (34, 40695), (35, 40698), (36, 40701), (48, 40785), (73, 41004), (74, 41010), (75, 41016), (84, 41055), (96, 41142), (99, 41163), (103, 41184), (104, 41202),

Gene: Snenia_86 Start: 57328, Stop: 57978, Start Num: 20

Candidate Starts for Snenia_86:

(Start: 20 @57328 has 25 MA's), (Start: 24 @57364 has 1 MA's), (29, 57400), (38, 57454), (39, 57457), (43, 57484), (48, 57520), (50, 57556), (58, 57634), (62, 57664), (64, 57670), (66, 57691), (67, 57700), (69, 57706), (75, 57751), (76, 57754), (88, 57808), (93, 57853), (96, 57874), (102, 57916), (106, 57952), (107, 57955),

Gene: SoJulia_92 Start: 59160, Stop: 59855, Start Num: 10

Candidate Starts for SoJulia_92:

(9, 59157), (10, 59160), (11, 59169), (Start: 13 @59175 has 1 MA's), (19, 59199), (22, 59208), (29, 59277), (38, 59331), (43, 59361), (50, 59433), (51, 59439), (58, 59511), (60, 59535), (62, 59541), (65, 59556), (66, 59568), (69, 59583), (75, 59628), (88, 59685), (102, 59793), (105, 59823), (107, 59832),

Gene: Soap141_90 Start: 58437, Stop: 59090, Start Num: 20

Candidate Starts for Soap141_90:

(Start: 20 @58437 has 25 MA's), (29, 58512), (38, 58566), (43, 58596), (50, 58668), (51, 58674), (58, 58746), (60, 58770), (62, 58776), (65, 58791), (66, 58803), (69, 58818), (75, 58863), (88, 58920), (102, 59028), (105, 59058), (107, 59067),

Gene: Squint_149 Start: 79996, Stop: 80706, Start Num: 6

Candidate Starts for Squint_149:

(Start: 6 @79996 has 40 MA's), (43, 80218), (46, 80242), (47, 80245), (48, 80254), (62, 80398), (64, 80404), (65, 80413), (66, 80425), (71, 80461), (72, 80464), (89, 80557), (100, 80638), (104, 80674),

Gene: Stellammi_164 Start: 70885, Stop: 71595, Start Num: 6

Candidate Starts for Stellammi_164:

(1, 70771), (5, 70873), (Start: 6 @70885 has 40 MA's), (10, 70903), (17, 70930), (25, 70993), (27, 71014), (58, 71257), (62, 71287), (64, 71293), (65, 71302), (66, 71314), (72, 71353), (88, 71431), (92, 71470), (93, 71476), (96, 71497),

Gene: Superphikiman_154 Start: 80469, Stop: 81179, Start Num: 6

Candidate Starts for Superphikiman_154:

(Start: 6 @80469 has 40 MA's), (43, 80691), (46, 80715), (47, 80718), (48, 80727), (58, 80841), (62, 80871), (64, 80877), (65, 80886), (66, 80898), (71, 80934), (72, 80937), (86, 81003), (89, 81030), (100, 81111), (104, 81147),

Gene: Thibault_140 Start: 80399, Stop: 81109, Start Num: 6

Candidate Starts for Thibault_140:

(Start: 6 @80399 has 40 MA's), (43, 80621), (46, 80645), (47, 80648), (48, 80657), (51, 80699), (58, 80771), (62, 80801), (65, 80816), (66, 80828), (72, 80867), (88, 80945), (89, 80960), (100, 81041),

Gene: ThreeRngTarjay_154 Start: 84534, Stop: 85244, Start Num: 6

Candidate Starts for ThreeRngTarjay_154:

(2, 84471), (3, 84486), (Start: 6 @84534 has 40 MA's), (23, 84609), (43, 84756), (46, 84780), (47, 84783), (48, 84792), (62, 84936), (64, 84942), (65, 84951), (66, 84963), (71, 84999), (72, 85002), (89, 85095), (100, 85176), (104, 85212),

Gene: Tourach_90 Start: 58204, Stop: 58875, Start Num: 16

Candidate Starts for Tourach_90:

(Start: 15 @58201 has 4 MA's), (Start: 16 @58204 has 5 MA's), (29, 58294), (38, 58348), (43, 58378), (50, 58450), (58, 58528), (60, 58552), (62, 58558), (66, 58585), (67, 58594), (75, 58645), (88, 58702), (93, 58747), (102, 58810), (107, 58849), (110, 58867),

Gene: TpudiCK_60 Start: 40665, Stop: 41252, Start Num: 26

Candidate Starts for TpudiCK_60:

(Start: 26 @40665 has 22 MA's), (34, 40710), (35, 40713), (36, 40716), (48, 40800), (73, 41019), (74, 41025), (75, 41031), (84, 41070), (96, 41157), (99, 41178), (103, 41199), (104, 41217),

Gene: TriFive_88 Start: 57440, Stop: 58090, Start Num: 20

Candidate Starts for TriFive_88:

(Start: 20 @57440 has 25 MA's), (Start: 24 @57476 has 1 MA's), (29, 57512), (38, 57566), (39, 57569), (43, 57596), (48, 57632), (50, 57668), (58, 57746), (62, 57776), (64, 57782), (66, 57803), (67, 57812), (69, 57818), (75, 57863), (76, 57866), (88, 57920), (93, 57965), (96, 57986), (102, 58028), (106, 58064), (107, 58067),

Gene: TyDawg_58 Start: 40666, Stop: 41253, Start Num: 26

Candidate Starts for TyDawg_58:

(Start: 26 @40666 has 22 MA's), (34, 40711), (35, 40714), (36, 40717), (48, 40801), (73, 41020), (74, 41026), (75, 41032), (84, 41071), (96, 41158), (99, 41179), (103, 41200), (104, 41218),

Gene: Underpass_82 Start: 52532, Stop: 53215, Start Num: 12

Candidate Starts for Underpass_82:

(Start: 12 @52532 has 14 MA's), (Start: 18 @52556 has 1 MA's), (Start: 24 @52601 has 1 MA's), (29, 52637), (38, 52691), (43, 52721), (50, 52793), (58, 52871), (60, 52895), (62, 52901), (65, 52916), (66, 52928), (69, 52943), (75, 52988), (88, 53045), (102, 53153), (105, 53183), (107, 53192),

Gene: Vetric_88 Start: 57273, Stop: 57953, Start Num: 13

Candidate Starts for Vetric_88:

(9, 57255), (10, 57258), (11, 57267), (Start: 13 @57273 has 1 MA's), (19, 57297), (22, 57306), (29, 57375), (38, 57429), (43, 57459), (50, 57531), (51, 57537), (58, 57609), (60, 57633), (62, 57639), (65, 57654), (66, 57666), (69, 57681), (75, 57726), (88, 57783), (102, 57891), (105, 57921), (107, 57930),

Gene: Wanda_157 Start: 81775, Stop: 82485, Start Num: 6

Candidate Starts for Wanda_157:

(Start: 6 @81775 has 40 MA's), (43, 81997), (46, 82021), (47, 82024), (48, 82033), (57, 82132), (58, 82147), (62, 82177), (65, 82192), (66, 82204), (72, 82243), (88, 82321), (89, 82336), (100, 82417),

Gene: Whirlwind_88 Start: 57664, Stop: 58317, Start Num: 20

Candidate Starts for Whirlwind_88:

(Start: 20 @57664 has 25 MA's), (29, 57739), (38, 57793), (39, 57796), (43, 57823), (50, 57895), (58, 57973), (62, 58003), (64, 58009), (66, 58030), (67, 58039), (69, 58045), (75, 58090), (76, 58093), (88, 58147), (93, 58192), (96, 58213), (102, 58255), (106, 58291), (107, 58294),

Gene: Wigglewigggle_90 Start: 57572, Stop: 58255, Start Num: 12

Candidate Starts for Wigglewigggle_90:

(Start: 12 @57572 has 14 MA's), (Start: 18 @57596 has 1 MA's), (Start: 24 @57641 has 1 MA's), (29, 57677), (38, 57731), (43, 57761), (50, 57833), (51, 57839), (58, 57911), (60, 57935), (62, 57941), (65, 57956), (66, 57968), (69, 57983), (75, 58028), (88, 58085), (102, 58193), (105, 58223), (107, 58232),

Gene: Wildcat_68 Start: 45428, Stop: 45985, Start Num: 32

Candidate Starts for Wildcat_68:

(Start: 32 @45428 has 5 MA's), (36, 45443), (43, 45494), (45, 45509), (61, 45671), (63, 45677), (66, 45701), (67, 45710), (69, 45716), (77, 45770), (80, 45785), (83, 45797), (85, 45806), (91, 45848), (92, 45866), (93, 45872), (94, 45887), (101, 45926), (103, 45935), (107, 45968), (108, 45977),

Gene: Wilder_91 Start: 57414, Stop: 58097, Start Num: 12

Candidate Starts for Wilder_91:

(Start: 12 @57414 has 14 MA's), (Start: 18 @57438 has 1 MA's), (Start: 24 @57483 has 1 MA's), (29, 57519), (38, 57573), (43, 57603), (50, 57675), (51, 57681), (58, 57753), (60, 57777), (62, 57783), (65, 57798), (66, 57810), (69, 57825), (75, 57870), (88, 57927), (102, 58035), (105, 58065), (107, 58074),

Gene: Winky_90 Start: 58042, Stop: 58695, Start Num: 20

Candidate Starts for Winky_90:

(Start: 20 @58042 has 25 MA's), (29, 58117), (38, 58171), (43, 58201), (50, 58273), (51, 58279), (58, 58351), (60, 58375), (62, 58381), (65, 58396), (66, 58408), (69, 58423), (75, 58468), (88, 58525), (102, 58633), (105, 58663), (107, 58672),

Gene: Xiaokay_151 Start: 83339, Stop: 84049, Start Num: 6

Candidate Starts for Xiaokay_151:

(Start: 6 @83339 has 40 MA's), (43, 83561), (46, 83585), (47, 83588), (48, 83597), (51, 83639), (58, 83711), (62, 83741), (65, 83756), (66, 83768), (71, 83804), (72, 83807), (89, 83900), (98, 83966), (100, 83981), (104, 84017),

Gene: Yeet_151 Start: 83070, Stop: 83780, Start Num: 6

Candidate Starts for Yeet_151:

(Start: 6 @83070 has 40 MA's), (43, 83292), (46, 83316), (47, 83319), (48, 83328), (57, 83427), (58, 83442), (62, 83472), (64, 83478), (65, 83487), (66, 83499), (72, 83538), (89, 83631), (100, 83712), (104, 83748),

Gene: Zakai_91 Start: 58069, Stop: 58740, Start Num: 15

Candidate Starts for Zakai_91:

(Start: 15 @58069 has 4 MA's), (Start: 16 @58072 has 5 MA's), (29, 58162), (38, 58216), (43, 58246), (50, 58318), (51, 58324), (58, 58396), (60, 58420), (62, 58426), (65, 58441), (66, 58453), (69, 58468), (75, 58513), (88, 58570), (102, 58678), (105, 58708), (107, 58717),

Gene: Zelink_152 Start: 83501, Stop: 84208, Start Num: 6

Candidate Starts for Zelink_152:

(Start: 6 @83501 has 40 MA's), (25, 83606), (33, 83663), (43, 83723), (48, 83756), (55, 83843), (58, 83870), (62, 83900), (65, 83915), (66, 83927), (72, 83966), (88, 84044), (89, 84059), (100, 84140),

Gene: ZhongYanYuan_87 Start: 57476, Stop: 58129, Start Num: 21

Candidate Starts for ZhongYanYuan_87:

(Start: 21 @57476 has 4 MA's), (29, 57548), (38, 57602), (43, 57632), (50, 57704), (51, 57710), (54, 57749), (58, 57782), (60, 57806), (62, 57812), (65, 57827), (66, 57839), (67, 57848), (75, 57899), (88, 57956), (102, 58064), (107, 58103), (110, 58121),