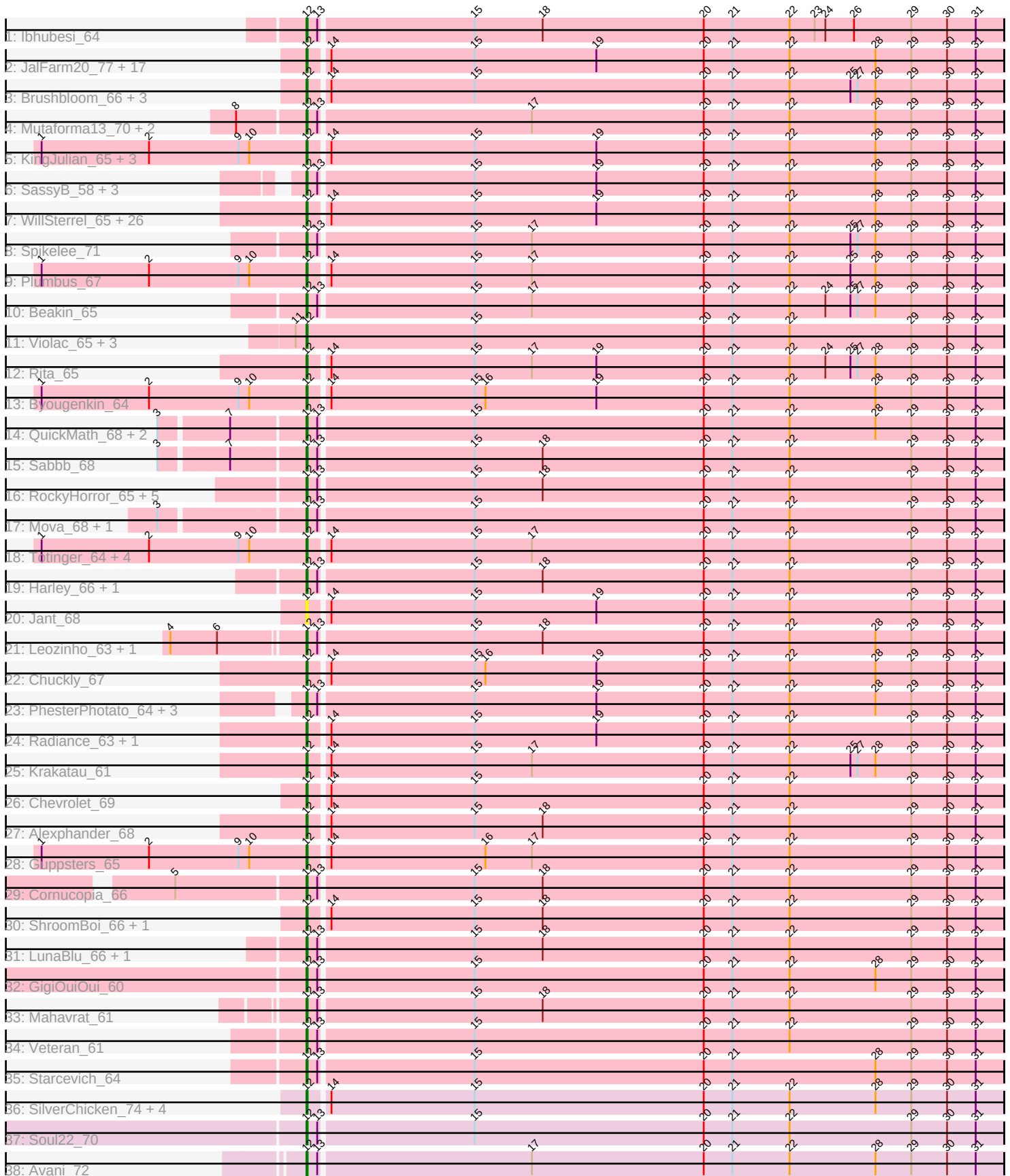


Pham 330639



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 330639 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330639 has 119 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Ibhubesi_64
- Track 2 : JalFarm20_77, Strokeseat_60, Juice456_65, Melissauren88_62, Ovechkin_64, Hamulus_64, KristaRAM_67, Florinda_75, Girafales_72, Shauna1_62, DotProduct_59, Fruitloop_60, StAnnes_62, IMpilo_60, Hlubikazi_60, Quico_72, Okabe_59, Mandlovu_60
- Track 3 : Brushbloom_66, Batiatus_62, Bobi_68, MilleniumForce_67
- Track 4 : Mutaforma13_70, EleanorGeorge_66, Firehouse51_67
- Track 5 : KingJulian_65, PatoPoderoso_62, Ms6_61, Corium_62
- Track 6 : SassyB_58, Phalconet_62, DLane_59, PopTart_58
- Track 7 : WillSterrel_65, SiSi_62, Ardmore_56, Donkeykong_67, Ramsey_63, SG4_61, UncleRicky_63, Doomphist_64, Bubbles123_60, XFactor_62, Poenanya_64, Spartacus_66, Dante_65, Llij_60, DirtMcgirt_63, IrishSherpFalk_65, Seagreen_63, Lucia_63, Enby_65, Lorde_64, Boomer_69, Phatniss_62, PMC_61, Rockne_65, Drago_61, Tweety_64, Flathead_65
- Track 8 : Spikelee_71
- Track 9 : Plumbus_67
- Track 10 : Beakin_65
- Track 11 : Violac_65, Eish_67, DaWorst_64, Rialto_69
- Track 12 : Rita_65
- Track 13 : Byougenkin_64
- Track 14 : QuickMath_68, Kimberlium_69, MulchExplorer_68
- Track 15 : Sabbb_68
- Track 16 : RockyHorror_65, Zerg_64, Girr_62, Ruby_60, MisterCuddles_62, Doug_66
- Track 17 : Mova_68, Madiba_65
- Track 18 : Totinger_64, Emmaloid_66, Peridot_66, LittleShirley_64, Slim_66
- Track 19 : Harley_66, Beanstalk_62
- Track 20 : Jant_68
- Track 21 : Leozinho_63, DosHalletts_66
- Track 22 : Chuckly_67
- Track 23 : PhesterPhotato_64, Filuzino_62, Akhila_55, MilanaBonita_54
- Track 24 : Radiance_63, OwlsT2W_64
- Track 25 : Krakatau_61
- Track 26 : Chevrolet_69
- Track 27 : Alexphander_68
- Track 28 : Guppsters_65
- Track 29 : Cornucopia_66

- Track 30 : ShroomBoi_66, Hades_65
- Track 31 : LunaBlu_66, Galactic_63
- Track 32 : GigiOuiOui_60
- Track 33 : Mahavrat_61
- Track 34 : Veteran_61
- Track 35 : Starceвич_64
- Track 36 : SilverChicken_74, TDanisky_71, ArcusAngelus_66, Sparkdehlily_71, Phanphagia_60
- Track 37 : Soul22_70
- Track 38 : Avani_72

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

The start number called the most often in the published annotations is 12, it was called in 110 of the 110 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_55, Alexphander_68, ArcusAngelus_66, Ardmore_56, Avani_72, Batiatus_62, Beakin_65, Beanstalk_62, Bobi_68, Boomer_69, Brushbloom_66, Bubbles123_60, Byougenkin_64, Chevrolet_69, Chuckly_67, Corium_62, Cornucopia_66, DLane_59, DaWorst_64, Dante_65, DirtMcgirt_63, Donkeykong_67, Doomphist_64, DosHalletts_66, DotProduct_59, Doug_66, Drago_61, Eish_67, EleanorGeorge_66, Emmaloid_66, Enby_65, Filuzino_62, Firehouse51_67, Flathead_65, Florinda_75, Fruitloop_60, Galactic_63, GigiOuiOui_60, Girafales_72, Girr_62, Guppsters_65, Hades_65, Hamulus_64, Harley_66, Hlubikazi_60, IMpilo_60, Ibhubesi_64, IrishSherpFalk_65, JalFarm20_77, Jant_68, Juice456_65, Kimberlium_69, KingJulian_65, Krakatau_61, KristaRAM_67, Leozinho_63, LittleShirley_64, Llij_60, Lorde_64, Lucia_63, LunaBlu_66, Madiba_65, Mahavrat_61, Mandlovu_60, Melissauren88_62, MilanaBonita_54, MilleniumForce_67, MisterCuddles_62, Mova_68, Ms6_61, MulchExplorer_68, Mutaforma13_70, Okabe_59, Ovechkin_64, OwlsT2W_64, PMC_61, PatoPoderoso_62, Peridot_66, Phalconet_62, Phanphagia_60, Phatniss_62, PhesterPhotato_64, Plumbus_67, Poenanya_64, PopTart_58, QuickMath_68, Quico_72, Radiance_63, Ramsey_63, Rialto_69, Rita_65, Rockne_65, RockyHorror_65, Ruby_60, SG4_61, Sabbb_68, SassyB_58, Seagreen_63, Shauna1_62, ShroomBoi_66, SiSi_62, SilverChicken_74, Slim_66, Soul22_70, Sparkdehlily_71, Spartacus_66, Spikelee_71, StAnnes_62, Starceвич_64, Strokeseat_60, TDanisky_71, Totinger_64, Tweety_64, UncleRicky_63, Veteran_61, Violac_65, WillSterrel_65, XFactor_62, Zerg_64,

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

-

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

-

Summary by start number:

Start 12:

- Found in 119 of 119 (100.0%) of genes in pham
- Manual Annotations of this start: 110 of 110

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akhila_55 (F1), Alexphander_68 (F1), ArcusAngelus_66 (F1), Ardmore_56 (F1), Avani_72 (F2), Batiatus_62 (F1), Beakin_65 (F1), Beanstalk_62 (F1), Bobi_68 (F1), Boomer_69 (F1), Brushbloom_66 (F1), Bubbles123_60 (F1), Byougenkin_64 (F1), Chevrolet_69 (F1), Chuckly_67 (F1), Corium_62 (F1), Cornucopia_66 (F1), DLane_59 (F1), DaWorst_64 (F1), Dante_65 (F1), DirtMcGirt_63 (F1), Donkeykong_67 (F1), Doomphist_64 (F1), DosHalletts_66 (F1), DotProduct_59 (F1), Doug_66 (F1), Drago_61 (F1), Eish_67 (F1), EleanorGeorge_66 (F1), Emmaloid_66 (F1), Enby_65 (F1), Filuzino_62 (F1), Firehouse51_67 (F1), Flathead_65 (F1), Florinda_75 (F1), Fruitloop_60 (F1), Galactic_63 (F1), GigiOuiOui_60 (F1), Girafales_72 (F1), Girr_62 (F1), Guppsters_65 (F1), Hades_65 (F1), Hamulus_64 (F1), Harley_66 (F1), Hlubikazi_60 (F1), IMpilo_60 (F1), Ibhubesi_64 (F1), IrishSherpFalk_65 (F1), JalFarm20_77 (F1), Jant_68 (F1), Juice456_65 (F1), Kimberlium_69 (F1), KingJulian_65 (F1), Krakatau_61 (F1), KristaRAM_67 (F1), Leozinho_63 (F1), LittleShirley_64 (F1), Llij_60 (F1), Lorde_64 (F1), Lucia_63 (F1), LunaBlu_66 (F1), Madiba_65 (F1), Mahavrat_61 (F1), Mandlovu_60 (F1), Melissauren88_62 (F1), MilanaBonita_54 (F1), MilleniumForce_67 (F1), MisterCuddles_62 (F1), Mova_68 (F1), Ms6_61 (F1), MulchExplorer_68 (F1), Mutaforma13_70 (F1), Okabe_59 (F1), Ovechkin_64 (F1), OwlsT2W_64 (F1), PMC_61 (F1), PatoPoderoso_62 (F1), Peridot_66 (F1), Phalconet_62 (F1), Phanphagia_60 (F1), Phatniss_62 (F1), PhesterPhotato_64 (F1), Plumbus_67 (F1), Poenanya_64 (F1), PopTart_58 (F1), QuickMath_68 (F1), Quico_72 (F1), Radiance_63 (F1), Ramsey_63 (F1), Rialto_69 (F1), Rita_65 (F1), Rockne_65 (F1), RockyHorror_65 (F1), Ruby_60 (F1), SG4_61 (F1), Sabbb_68 (F1), SassyB_58 (F1), Seagreen_63 (F1), Shauna1_62 (F1), ShroomBoi_66 (F1), SiSi_62 (F1), SilverChicken_74 (F2), Slim_66 (F1), Soul22_70 (F2), Sparkdehlily_71 (F1), Spartacus_66 (F1), Spikelee_71 (F1), StAnnes_62 (F1), Starcevich_64 (F1), Strokeseat_60 (F1), TDanisky_71 (F1), Totinger_64 (F1), Tweety_64 (F1), UncleRicky_63 (F1), Veteran_61 (F1), Violac_65 (F1), WillSterrel_65 (F1), XFactor_62 (F1), Zerg_64 (F1),

Summary by clusters:

There are 3 clusters represented in this pham: F8, F1, F2,

Info for manual annotations of cluster F1:

- Start number 12 was manually annotated 108 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 12 was manually annotated 2 times for cluster F2.

Gene Information:

Gene: Akhila_55 Start: 37373, Stop: 37951, Start Num: 12

Candidate Starts for Akhila_55:

(Start: 12 @37373 has 110 MA's), (13, 37382), (15, 37508), (19, 37610), (20, 37700), (21, 37724), (22, 37772), (28, 37844), (29, 37874), (30, 37904), (31, 37928),

Gene: Alexphander_68 Start: 41707, Stop: 42285, Start Num: 12

Candidate Starts for Alexphander_68:

(Start: 12 @41707 has 110 MA's), (14, 41722), (15, 41842), (18, 41899), (20, 42034), (21, 42058), (22, 42106), (29, 42208), (30, 42238), (31, 42262),

Gene: ArcusAngelus_66 Start: 42057, Stop: 42635, Start Num: 12

Candidate Starts for ArcusAngelus_66:

(Start: 12 @42057 has 110 MA's), (14, 42072), (15, 42192), (20, 42384), (21, 42408), (22, 42456), (28, 42528), (29, 42558), (30, 42588), (31, 42612),

Gene: Ardmore_56 Start: 39474, Stop: 40052, Start Num: 12

Candidate Starts for Ardmore_56:

(Start: 12 @39474 has 110 MA's), (14, 39489), (15, 39609), (19, 39711), (20, 39801), (21, 39825), (22, 39873), (28, 39945), (29, 39975), (30, 40005), (31, 40029),

Gene: Avani_72 Start: 42091, Stop: 42669, Start Num: 12

Candidate Starts for Avani_72:

(Start: 12 @42091 has 110 MA's), (13, 42100), (17, 42274), (20, 42418), (21, 42442), (22, 42490), (28, 42562), (29, 42592), (30, 42622), (31, 42646),

Gene: Batiatus_62 Start: 41350, Stop: 41928, Start Num: 12

Candidate Starts for Batiatus_62:

(Start: 12 @41350 has 110 MA's), (14, 41365), (15, 41485), (20, 41677), (21, 41701), (22, 41749), (25, 41800), (27, 41806), (28, 41821), (29, 41851), (30, 41881), (31, 41905),

Gene: Beakin_65 Start: 40654, Stop: 41232, Start Num: 12

Candidate Starts for Beakin_65:

(Start: 12 @40654 has 110 MA's), (13, 40663), (15, 40789), (17, 40837), (20, 40981), (21, 41005), (22, 41053), (24, 41083), (25, 41104), (27, 41110), (28, 41125), (29, 41155), (30, 41185), (31, 41209),

Gene: Beanstalk_62 Start: 40105, Stop: 40683, Start Num: 12

Candidate Starts for Beanstalk_62:

(Start: 12 @40105 has 110 MA's), (13, 40114), (15, 40240), (18, 40297), (20, 40432), (21, 40456), (22, 40504), (29, 40606), (30, 40636), (31, 40660),

Gene: Bobi_68 Start: 42953, Stop: 43531, Start Num: 12

Candidate Starts for Bobi_68:

(Start: 12 @42953 has 110 MA's), (14, 42968), (15, 43088), (20, 43280), (21, 43304), (22, 43352), (25, 43403), (27, 43409), (28, 43424), (29, 43454), (30, 43484), (31, 43508),

Gene: Boomer_69 Start: 43611, Stop: 44189, Start Num: 12

Candidate Starts for Boomer_69:

(Start: 12 @43611 has 110 MA's), (14, 43626), (15, 43746), (19, 43848), (20, 43938), (21, 43962), (22, 44010), (28, 44082), (29, 44112), (30, 44142), (31, 44166),

Gene: Brushbloom_66 Start: 42282, Stop: 42860, Start Num: 12

Candidate Starts for Brushbloom_66:

(Start: 12 @42282 has 110 MA's), (14, 42297), (15, 42417), (20, 42609), (21, 42633), (22, 42681), (25, 42732), (27, 42738), (28, 42753), (29, 42783), (30, 42813), (31, 42837),

Gene: Bubbles123_60 Start: 41257, Stop: 41835, Start Num: 12

Candidate Starts for Bubbles123_60:

(Start: 12 @41257 has 110 MA's), (14, 41272), (15, 41392), (19, 41494), (20, 41584), (21, 41608), (22, 41656), (28, 41728), (29, 41758), (30, 41788), (31, 41812),

Gene: Byougenkin_64 Start: 41613, Stop: 42191, Start Num: 12

Candidate Starts for Byougenkin_64:

(1, 41391), (2, 41481), (9, 41556), (10, 41565), (Start: 12 @41613 has 110 MA's), (14, 41628), (15, 41748), (16, 41757), (19, 41850), (20, 41940), (21, 41964), (22, 42012), (28, 42084), (29, 42114), (30, 42144), (31, 42168),

Gene: Chevrolet_69 Start: 42058, Stop: 42636, Start Num: 12

Candidate Starts for Chevrolet_69:

(Start: 12 @42058 has 110 MA's), (14, 42073), (15, 42193), (20, 42385), (21, 42409), (22, 42457), (29, 42559), (30, 42589), (31, 42613),

Gene: Chuckly_67 Start: 42080, Stop: 42658, Start Num: 12

Candidate Starts for Chuckly_67:

(Start: 12 @42080 has 110 MA's), (14, 42095), (15, 42215), (16, 42224), (19, 42317), (20, 42407), (21, 42431), (22, 42479), (28, 42551), (29, 42581), (30, 42611), (31, 42635),

Gene: Corium_62 Start: 40905, Stop: 41483, Start Num: 12

Candidate Starts for Corium_62:

(1, 40683), (2, 40773), (9, 40848), (10, 40857), (Start: 12 @40905 has 110 MA's), (14, 40920), (15, 41040), (19, 41142), (20, 41232), (21, 41256), (22, 41304), (28, 41376), (29, 41406), (30, 41436), (31, 41460),

Gene: Cornucopia_66 Start: 42004, Stop: 42582, Start Num: 12

Candidate Starts for Cornucopia_66:

(5, 41902), (Start: 12 @42004 has 110 MA's), (13, 42013), (15, 42139), (18, 42196), (20, 42331), (21, 42355), (22, 42403), (29, 42505), (30, 42535), (31, 42559),

Gene: DLane_59 Start: 39980, Stop: 40558, Start Num: 12

Candidate Starts for DLane_59:

(Start: 12 @39980 has 110 MA's), (13, 39989), (15, 40115), (19, 40217), (20, 40307), (21, 40331), (22, 40379), (28, 40451), (29, 40481), (30, 40511), (31, 40535),

Gene: DaWorst_64 Start: 41441, Stop: 42025, Start Num: 12

Candidate Starts for DaWorst_64:

(11, 41432), (Start: 12 @41441 has 110 MA's), (15, 41582), (20, 41774), (21, 41798), (22, 41846), (29, 41948), (30, 41978), (31, 42002),

Gene: Dante_65 Start: 41221, Stop: 41799, Start Num: 12

Candidate Starts for Dante_65:

(Start: 12 @41221 has 110 MA's), (14, 41236), (15, 41356), (19, 41458), (20, 41548), (21, 41572), (22, 41620), (28, 41692), (29, 41722), (30, 41752), (31, 41776),

Gene: DirtMcgirt_63 Start: 39979, Stop: 40557, Start Num: 12

Candidate Starts for DirtMcgirt_63:

(Start: 12 @39979 has 110 MA's), (14, 39994), (15, 40114), (19, 40216), (20, 40306), (21, 40330), (22, 40378), (28, 40450), (29, 40480), (30, 40510), (31, 40534),

Gene: Donkeykong_67 Start: 43893, Stop: 44471, Start Num: 12

Candidate Starts for Donkeykong_67:

(Start: 12 @43893 has 110 MA's), (14, 43908), (15, 44028), (19, 44130), (20, 44220), (21, 44244), (22, 44292), (28, 44364), (29, 44394), (30, 44424), (31, 44448),

Gene: Doomphist_64 Start: 42388, Stop: 42966, Start Num: 12

Candidate Starts for Doomphist_64:

(Start: 12 @42388 has 110 MA's), (14, 42403), (15, 42523), (19, 42625), (20, 42715), (21, 42739), (22, 42787), (28, 42859), (29, 42889), (30, 42919), (31, 42943),

Gene: DosHalletts_66 Start: 42728, Stop: 43306, Start Num: 12

Candidate Starts for DosHalletts_66:

(4, 42623), (6, 42662), (Start: 12 @42728 has 110 MA's), (13, 42737), (15, 42863), (18, 42920), (20, 43055), (21, 43079), (22, 43127), (28, 43199), (29, 43229), (30, 43259), (31, 43283),

Gene: DotProduct_59 Start: 40227, Stop: 40805, Start Num: 12

Candidate Starts for DotProduct_59:

(Start: 12 @40227 has 110 MA's), (14, 40242), (15, 40362), (19, 40464), (20, 40554), (21, 40578), (22, 40626), (28, 40698), (29, 40728), (30, 40758), (31, 40782),

Gene: Doug_66 Start: 42060, Stop: 42638, Start Num: 12

Candidate Starts for Doug_66:

(Start: 12 @42060 has 110 MA's), (13, 42069), (15, 42195), (18, 42252), (20, 42387), (21, 42411), (22, 42459), (29, 42561), (30, 42591), (31, 42615),

Gene: Drago_61 Start: 39982, Stop: 40560, Start Num: 12

Candidate Starts for Drago_61:

(Start: 12 @39982 has 110 MA's), (14, 39997), (15, 40117), (19, 40219), (20, 40309), (21, 40333), (22, 40381), (28, 40453), (29, 40483), (30, 40513), (31, 40537),

Gene: Eish_67 Start: 41956, Stop: 42540, Start Num: 12

Candidate Starts for Eish_67:

(11, 41947), (Start: 12 @41956 has 110 MA's), (15, 42097), (20, 42289), (21, 42313), (22, 42361), (29, 42463), (30, 42493), (31, 42517),

Gene: EleanorGeorge_66 Start: 42742, Stop: 43320, Start Num: 12

Candidate Starts for EleanorGeorge_66:

(8, 42688), (Start: 12 @42742 has 110 MA's), (13, 42751), (17, 42925), (20, 43069), (21, 43093), (22, 43141), (28, 43213), (29, 43243), (30, 43273), (31, 43297),

Gene: Emmaloid_66 Start: 42487, Stop: 43065, Start Num: 12

Candidate Starts for Emmaloid_66:

(1, 42265), (2, 42355), (9, 42430), (10, 42439), (Start: 12 @42487 has 110 MA's), (14, 42502), (15, 42622), (17, 42670), (20, 42814), (21, 42838), (22, 42886), (29, 42988), (30, 43018), (31, 43042),

Gene: Enby_65 Start: 40258, Stop: 40836, Start Num: 12

Candidate Starts for Enby_65:

(Start: 12 @40258 has 110 MA's), (14, 40273), (15, 40393), (19, 40495), (20, 40585), (21, 40609), (22, 40657), (28, 40729), (29, 40759), (30, 40789), (31, 40813),

Gene: Filuzino_62 Start: 40285, Stop: 40863, Start Num: 12

Candidate Starts for Filuzino_62:

(Start: 12 @40285 has 110 MA's), (13, 40294), (15, 40420), (19, 40522), (20, 40612), (21, 40636), (22, 40684), (28, 40756), (29, 40786), (30, 40816), (31, 40840),

Gene: Firehouse51_67 Start: 45788, Stop: 46366, Start Num: 12

Candidate Starts for Firehouse51_67:

(8, 45734), (Start: 12 @45788 has 110 MA's), (13, 45797), (17, 45971), (20, 46115), (21, 46139), (22, 46187), (28, 46259), (29, 46289), (30, 46319), (31, 46343),

Gene: Flathead_65 Start: 41939, Stop: 42517, Start Num: 12

Candidate Starts for Flathead_65:

(Start: 12 @41939 has 110 MA's), (14, 41954), (15, 42074), (19, 42176), (20, 42266), (21, 42290), (22, 42338), (28, 42410), (29, 42440), (30, 42470), (31, 42494),

Gene: Florinda_75 Start: 43399, Stop: 43977, Start Num: 12

Candidate Starts for Florinda_75:

(Start: 12 @43399 has 110 MA's), (14, 43414), (15, 43534), (19, 43636), (20, 43726), (21, 43750), (22, 43798), (28, 43870), (29, 43900), (30, 43930), (31, 43954),

Gene: Fruitloop_60 Start: 41616, Stop: 42194, Start Num: 12

Candidate Starts for Fruitloop_60:

(Start: 12 @41616 has 110 MA's), (14, 41631), (15, 41751), (19, 41853), (20, 41943), (21, 41967), (22, 42015), (28, 42087), (29, 42117), (30, 42147), (31, 42171),

Gene: Galactic_63 Start: 41258, Stop: 41836, Start Num: 12

Candidate Starts for Galactic_63:

(Start: 12 @41258 has 110 MA's), (13, 41267), (15, 41393), (18, 41450), (20, 41585), (21, 41609), (22, 41657), (29, 41759), (30, 41789), (31, 41813),

Gene: GigiOuiOui_60 Start: 40247, Stop: 40825, Start Num: 12

Candidate Starts for GigiOuiOui_60:

(Start: 12 @40247 has 110 MA's), (13, 40256), (15, 40382), (20, 40574), (21, 40598), (22, 40646), (28, 40718), (29, 40748), (30, 40778), (31, 40802),

Gene: Girafales_72 Start: 43190, Stop: 43768, Start Num: 12

Candidate Starts for Girafales_72:

(Start: 12 @43190 has 110 MA's), (14, 43205), (15, 43325), (19, 43427), (20, 43517), (21, 43541), (22, 43589), (28, 43661), (29, 43691), (30, 43721), (31, 43745),

Gene: Girr_62 Start: 41117, Stop: 41695, Start Num: 12

Candidate Starts for Girr_62:

(Start: 12 @41117 has 110 MA's), (13, 41126), (15, 41252), (18, 41309), (20, 41444), (21, 41468), (22, 41516), (29, 41618), (30, 41648), (31, 41672),

Gene: Guppsters_65 Start: 41402, Stop: 41980, Start Num: 12

Candidate Starts for Guppsters_65:

(1, 41180), (2, 41270), (9, 41345), (10, 41354), (Start: 12 @41402 has 110 MA's), (14, 41417), (16, 41546), (17, 41585), (20, 41729), (21, 41753), (22, 41801), (29, 41903), (30, 41933), (31, 41957),

Gene: Hades_65 Start: 42117, Stop: 42695, Start Num: 12

Candidate Starts for Hades_65:

(Start: 12 @42117 has 110 MA's), (14, 42132), (15, 42252), (18, 42309), (20, 42444), (21, 42468), (22, 42516), (29, 42618), (30, 42648), (31, 42672),

Gene: Hamulus_64 Start: 41759, Stop: 42337, Start Num: 12

Candidate Starts for Hamulus_64:

(Start: 12 @41759 has 110 MA's), (14, 41774), (15, 41894), (19, 41996), (20, 42086), (21, 42110), (22, 42158), (28, 42230), (29, 42260), (30, 42290), (31, 42314),

Gene: Harley_66 Start: 42366, Stop: 42944, Start Num: 12

Candidate Starts for Harley_66:

(Start: 12 @42366 has 110 MA's), (13, 42375), (15, 42501), (18, 42558), (20, 42693), (21, 42717), (22, 42765), (29, 42867), (30, 42897), (31, 42921),

Gene: Hlubikazi_60 Start: 39337, Stop: 39915, Start Num: 12

Candidate Starts for Hlubikazi_60:

(Start: 12 @39337 has 110 MA's), (14, 39352), (15, 39472), (19, 39574), (20, 39664), (21, 39688), (22, 39736), (28, 39808), (29, 39838), (30, 39868), (31, 39892),

Gene: IMpilo_60 Start: 39388, Stop: 39966, Start Num: 12

Candidate Starts for IMpilo_60:

(Start: 12 @39388 has 110 MA's), (14, 39403), (15, 39523), (19, 39625), (20, 39715), (21, 39739), (22, 39787), (28, 39859), (29, 39889), (30, 39919), (31, 39943),

Gene: Ibhubesi_64 Start: 41382, Stop: 41960, Start Num: 12

Candidate Starts for Ibhubesi_64:

(Start: 12 @41382 has 110 MA's), (13, 41391), (15, 41517), (18, 41574), (20, 41709), (21, 41733), (22, 41781), (23, 41802), (24, 41811), (26, 41835), (29, 41883), (30, 41913), (31, 41937),

Gene: IrishSherpFalk_65 Start: 42972, Stop: 43550, Start Num: 12

Candidate Starts for IrishSherpFalk_65:

(Start: 12 @42972 has 110 MA's), (14, 42987), (15, 43107), (19, 43209), (20, 43299), (21, 43323), (22, 43371), (28, 43443), (29, 43473), (30, 43503), (31, 43527),

Gene: JalFarm20_77 Start: 45441, Stop: 46019, Start Num: 12

Candidate Starts for JalFarm20_77:

(Start: 12 @45441 has 110 MA's), (14, 45456), (15, 45576), (19, 45678), (20, 45768), (21, 45792), (22, 45840), (28, 45912), (29, 45942), (30, 45972), (31, 45996),

Gene: Jant_68 Start: 43019, Stop: 43597, Start Num: 12

Candidate Starts for Jant_68:

(Start: 12 @43019 has 110 MA's), (14, 43034), (15, 43154), (19, 43256), (20, 43346), (21, 43370), (22, 43418), (29, 43520), (30, 43550), (31, 43574),

Gene: Juice456_65 Start: 43397, Stop: 43975, Start Num: 12

Candidate Starts for Juice456_65:

(Start: 12 @43397 has 110 MA's), (14, 43412), (15, 43532), (19, 43634), (20, 43724), (21, 43748), (22, 43796), (28, 43868), (29, 43898), (30, 43928), (31, 43952),

Gene: Kimberlium_69 Start: 43678, Stop: 44256, Start Num: 12

Candidate Starts for Kimberlium_69:

(3, 43567), (7, 43621), (Start: 12 @43678 has 110 MA's), (13, 43687), (15, 43813), (20, 44005), (21, 44029), (22, 44077), (28, 44149), (29, 44179), (30, 44209), (31, 44233),

Gene: KingJulian_65 Start: 40905, Stop: 41483, Start Num: 12

Candidate Starts for KingJulian_65:

(1, 40683), (2, 40773), (9, 40848), (10, 40857), (Start: 12 @40905 has 110 MA's), (14, 40920), (15, 41040), (19, 41142), (20, 41232), (21, 41256), (22, 41304), (28, 41376), (29, 41406), (30, 41436), (31, 41460),

Gene: Krakatau_61 Start: 40570, Stop: 41148, Start Num: 12

Candidate Starts for Krakatau_61:

(Start: 12 @40570 has 110 MA's), (14, 40585), (15, 40705), (17, 40753), (20, 40897), (21, 40921), (22, 40969), (25, 41020), (27, 41026), (28, 41041), (29, 41071), (30, 41101), (31, 41125),

Gene: KristaRAM_67 Start: 43766, Stop: 44344, Start Num: 12

Candidate Starts for KristaRAM_67:

(Start: 12 @43766 has 110 MA's), (14, 43781), (15, 43901), (19, 44003), (20, 44093), (21, 44117), (22, 44165), (28, 44237), (29, 44267), (30, 44297), (31, 44321),

Gene: Leozinho_63 Start: 40576, Stop: 41154, Start Num: 12

Candidate Starts for Leozinho_63:

(4, 40471), (6, 40510), (Start: 12 @40576 has 110 MA's), (13, 40585), (15, 40711), (18, 40768), (20, 40903), (21, 40927), (22, 40975), (28, 41047), (29, 41077), (30, 41107), (31, 41131),

Gene: LittleShirley_64 Start: 42218, Stop: 42796, Start Num: 12

Candidate Starts for LittleShirley_64:

(1, 41996), (2, 42086), (9, 42161), (10, 42170), (Start: 12 @42218 has 110 MA's), (14, 42233), (15, 42353), (17, 42401), (20, 42545), (21, 42569), (22, 42617), (29, 42719), (30, 42749), (31, 42773),

Gene: Llij_60 Start: 40136, Stop: 40714, Start Num: 12

Candidate Starts for Llij_60:

(Start: 12 @40136 has 110 MA's), (14, 40151), (15, 40271), (19, 40373), (20, 40463), (21, 40487), (22, 40535), (28, 40607), (29, 40637), (30, 40667), (31, 40691),

Gene: Lorde_64 Start: 39423, Stop: 40001, Start Num: 12

Candidate Starts for Lorde_64:

(Start: 12 @39423 has 110 MA's), (14, 39438), (15, 39558), (19, 39660), (20, 39750), (21, 39774), (22, 39822), (28, 39894), (29, 39924), (30, 39954), (31, 39978),

Gene: Lucia_63 Start: 40256, Stop: 40834, Start Num: 12

Candidate Starts for Lucia_63:

(Start: 12 @40256 has 110 MA's), (14, 40271), (15, 40391), (19, 40493), (20, 40583), (21, 40607), (22, 40655), (28, 40727), (29, 40757), (30, 40787), (31, 40811),

Gene: LunaBlu_66 Start: 41917, Stop: 42495, Start Num: 12

Candidate Starts for LunaBlu_66:

(Start: 12 @41917 has 110 MA's), (13, 41926), (15, 42052), (18, 42109), (20, 42244), (21, 42268), (22, 42316), (29, 42418), (30, 42448), (31, 42472),

Gene: Madiba_65 Start: 41150, Stop: 41728, Start Num: 12

Candidate Starts for Madiba_65:

(3, 41039), (Start: 12 @41150 has 110 MA's), (13, 41159), (15, 41285), (20, 41477), (21, 41501), (22, 41549), (29, 41651), (30, 41681), (31, 41705),

Gene: Mahavrat_61 Start: 40856, Stop: 41434, Start Num: 12

Candidate Starts for Mahavrat_61:

(Start: 12 @40856 has 110 MA's), (13, 40865), (15, 40991), (18, 41048), (20, 41183), (21, 41207), (22, 41255), (29, 41357), (30, 41387), (31, 41411),

Gene: Mandlovu_60 Start: 39279, Stop: 39857, Start Num: 12

Candidate Starts for Mandlovu_60:

(Start: 12 @39279 has 110 MA's), (14, 39294), (15, 39414), (19, 39516), (20, 39606), (21, 39630), (22, 39678), (28, 39750), (29, 39780), (30, 39810), (31, 39834),

Gene: Melissauren88_62 Start: 40797, Stop: 41375, Start Num: 12

Candidate Starts for Melissauren88_62:

(Start: 12 @40797 has 110 MA's), (14, 40812), (15, 40932), (19, 41034), (20, 41124), (21, 41148), (22, 41196), (28, 41268), (29, 41298), (30, 41328), (31, 41352),

Gene: MilanaBonita_54 Start: 37373, Stop: 37951, Start Num: 12

Candidate Starts for MilanaBonita_54:

(Start: 12 @37373 has 110 MA's), (13, 37382), (15, 37508), (19, 37610), (20, 37700), (21, 37724), (22, 37772), (28, 37844), (29, 37874), (30, 37904), (31, 37928),

Gene: MilleniumForce_67 Start: 43485, Stop: 44063, Start Num: 12

Candidate Starts for MilleniumForce_67:

(Start: 12 @43485 has 110 MA's), (14, 43500), (15, 43620), (20, 43812), (21, 43836), (22, 43884), (25, 43935), (27, 43941), (28, 43956), (29, 43986), (30, 44016), (31, 44040),

Gene: MisterCuddles_62 Start: 41117, Stop: 41695, Start Num: 12

Candidate Starts for MisterCuddles_62:

(Start: 12 @41117 has 110 MA's), (13, 41126), (15, 41252), (18, 41309), (20, 41444), (21, 41468), (22, 41516), (29, 41618), (30, 41648), (31, 41672),

Gene: Mova_68 Start: 41654, Stop: 42232, Start Num: 12

Candidate Starts for Mova_68:

(3, 41543), (Start: 12 @41654 has 110 MA's), (13, 41663), (15, 41789), (20, 41981), (21, 42005), (22, 42053), (29, 42155), (30, 42185), (31, 42209),

Gene: Ms6_61 Start: 37162, Stop: 37740, Start Num: 12

Candidate Starts for Ms6_61:

(1, 36940), (2, 37030), (9, 37105), (10, 37114), (Start: 12 @37162 has 110 MA's), (14, 37177), (15, 37297), (19, 37399), (20, 37489), (21, 37513), (22, 37561), (28, 37633), (29, 37663), (30, 37693), (31, 37717),

Gene: MulchExplorer_68 Start: 43677, Stop: 44255, Start Num: 12

Candidate Starts for MulchExplorer_68:

(3, 43566), (7, 43620), (Start: 12 @43677 has 110 MA's), (13, 43686), (15, 43812), (20, 44004), (21, 44028), (22, 44076), (28, 44148), (29, 44178), (30, 44208), (31, 44232),

Gene: Mutaforma13_70 Start: 45098, Stop: 45676, Start Num: 12

Candidate Starts for Mutaforma13_70:

(8, 45044), (Start: 12 @45098 has 110 MA's), (13, 45107), (17, 45281), (20, 45425), (21, 45449), (22, 45497), (28, 45569), (29, 45599), (30, 45629), (31, 45653),

Gene: Okabe_59 Start: 37710, Stop: 38288, Start Num: 12

Candidate Starts for Okabe_59:

(Start: 12 @37710 has 110 MA's), (14, 37725), (15, 37845), (19, 37947), (20, 38037), (21, 38061), (22, 38109), (28, 38181), (29, 38211), (30, 38241), (31, 38265),

Gene: Ovechkin_64 Start: 42113, Stop: 42691, Start Num: 12

Candidate Starts for Ovechkin_64:

(Start: 12 @42113 has 110 MA's), (14, 42128), (15, 42248), (19, 42350), (20, 42440), (21, 42464), (22, 42512), (28, 42584), (29, 42614), (30, 42644), (31, 42668),

Gene: OwlsT2W_64 Start: 41445, Stop: 42023, Start Num: 12

Candidate Starts for OwlsT2W_64:

(Start: 12 @41445 has 110 MA's), (14, 41460), (15, 41580), (19, 41682), (20, 41772), (21, 41796), (22, 41844), (29, 41946), (30, 41976), (31, 42000),

Gene: PMC_61 Start: 41835, Stop: 42413, Start Num: 12

Candidate Starts for PMC_61:

(Start: 12 @41835 has 110 MA's), (14, 41850), (15, 41970), (19, 42072), (20, 42162), (21, 42186), (22, 42234), (28, 42306), (29, 42336), (30, 42366), (31, 42390),

Gene: PatoPoderoso_62 Start: 40905, Stop: 41483, Start Num: 12

Candidate Starts for PatoPoderoso_62:

(1, 40683), (2, 40773), (9, 40848), (10, 40857), (Start: 12 @40905 has 110 MA's), (14, 40920), (15, 41040), (19, 41142), (20, 41232), (21, 41256), (22, 41304), (28, 41376), (29, 41406), (30, 41436), (31, 41460),

Gene: Peridot_66 Start: 41137, Stop: 41715, Start Num: 12

Candidate Starts for Peridot_66:

(1, 40915), (2, 41005), (9, 41080), (10, 41089), (Start: 12 @41137 has 110 MA's), (14, 41152), (15, 41272), (17, 41320), (20, 41464), (21, 41488), (22, 41536), (29, 41638), (30, 41668), (31, 41692),

Gene: Phalconet_62 Start: 40048, Stop: 40626, Start Num: 12

Candidate Starts for Phalconet_62:

(Start: 12 @40048 has 110 MA's), (13, 40057), (15, 40183), (19, 40285), (20, 40375), (21, 40399), (22, 40447), (28, 40519), (29, 40549), (30, 40579), (31, 40603),

Gene: Phanphagia_60 Start: 41659, Stop: 42237, Start Num: 12

Candidate Starts for Phanphagia_60:

(Start: 12 @41659 has 110 MA's), (14, 41674), (15, 41794), (20, 41986), (21, 42010), (22, 42058), (28, 42130), (29, 42160), (30, 42190), (31, 42214),

Gene: Phatniss_62 Start: 41231, Stop: 41809, Start Num: 12

Candidate Starts for Phatniss_62:

(Start: 12 @41231 has 110 MA's), (14, 41246), (15, 41366), (19, 41468), (20, 41558), (21, 41582), (22, 41630), (28, 41702), (29, 41732), (30, 41762), (31, 41786),

Gene: PhesterPhotato_64 Start: 40868, Stop: 41446, Start Num: 12

Candidate Starts for PhesterPhotato_64:

(Start: 12 @40868 has 110 MA's), (13, 40877), (15, 41003), (19, 41105), (20, 41195), (21, 41219), (22, 41267), (28, 41339), (29, 41369), (30, 41399), (31, 41423),

Gene: Plumbus_67 Start: 41998, Stop: 42576, Start Num: 12

Candidate Starts for Plumbus_67:

(1, 41776), (2, 41866), (9, 41941), (10, 41950), (Start: 12 @41998 has 110 MA's), (14, 42013), (15, 42133), (17, 42181), (20, 42325), (21, 42349), (22, 42397), (25, 42448), (28, 42469), (29, 42499), (30, 42529), (31, 42553),

Gene: Poenanya_64 Start: 42388, Stop: 42966, Start Num: 12

Candidate Starts for Poenanya_64:

(Start: 12 @42388 has 110 MA's), (14, 42403), (15, 42523), (19, 42625), (20, 42715), (21, 42739), (22, 42787), (28, 42859), (29, 42889), (30, 42919), (31, 42943),

Gene: PopTart_58 Start: 39673, Stop: 40251, Start Num: 12

Candidate Starts for PopTart_58:

(Start: 12 @39673 has 110 MA's), (13, 39682), (15, 39808), (19, 39910), (20, 40000), (21, 40024), (22, 40072), (28, 40144), (29, 40174), (30, 40204), (31, 40228),

Gene: QuickMath_68 Start: 43901, Stop: 44479, Start Num: 12

Candidate Starts for QuickMath_68:

(3, 43790), (7, 43844), (Start: 12 @43901 has 110 MA's), (13, 43910), (15, 44036), (20, 44228), (21, 44252), (22, 44300), (28, 44372), (29, 44402), (30, 44432), (31, 44456),

Gene: Quico_72 Start: 43219, Stop: 43797, Start Num: 12

Candidate Starts for Quico_72:

(Start: 12 @43219 has 110 MA's), (14, 43234), (15, 43354), (19, 43456), (20, 43546), (21, 43570), (22, 43618), (28, 43690), (29, 43720), (30, 43750), (31, 43774),

Gene: Radiance_63 Start: 41326, Stop: 41904, Start Num: 12

Candidate Starts for Radiance_63:

(Start: 12 @41326 has 110 MA's), (14, 41341), (15, 41461), (19, 41563), (20, 41653), (21, 41677), (22, 41725), (29, 41827), (30, 41857), (31, 41881),

Gene: Ramsey_63 Start: 41639, Stop: 42217, Start Num: 12

Candidate Starts for Ramsey_63:

(Start: 12 @41639 has 110 MA's), (14, 41654), (15, 41774), (19, 41876), (20, 41966), (21, 41990), (22, 42038), (28, 42110), (29, 42140), (30, 42170), (31, 42194),

Gene: Rialto_69 Start: 43854, Stop: 44438, Start Num: 12

Candidate Starts for Rialto_69:

(11, 43845), (Start: 12 @43854 has 110 MA's), (15, 43995), (20, 44187), (21, 44211), (22, 44259), (29, 44361), (30, 44391), (31, 44415),

Gene: Rita_65 Start: 39938, Stop: 40516, Start Num: 12

Candidate Starts for Rita_65:

(Start: 12 @39938 has 110 MA's), (14, 39953), (15, 40073), (17, 40121), (19, 40175), (20, 40265), (21, 40289), (22, 40337), (24, 40367), (25, 40388), (27, 40394), (28, 40409), (29, 40439), (30, 40469), (31, 40493),

Gene: Rockne_65 Start: 41847, Stop: 42425, Start Num: 12

Candidate Starts for Rockne_65:

(Start: 12 @41847 has 110 MA's), (14, 41862), (15, 41982), (19, 42084), (20, 42174), (21, 42198), (22, 42246), (28, 42318), (29, 42348), (30, 42378), (31, 42402),

Gene: RockyHorror_65 Start: 40989, Stop: 41567, Start Num: 12

Candidate Starts for RockyHorror_65:

(Start: 12 @40989 has 110 MA's), (13, 40998), (15, 41124), (18, 41181), (20, 41316), (21, 41340), (22, 41388), (29, 41490), (30, 41520), (31, 41544),

Gene: Ruby_60 Start: 41118, Stop: 41696, Start Num: 12

Candidate Starts for Ruby_60:

(Start: 12 @41118 has 110 MA's), (13, 41127), (15, 41253), (18, 41310), (20, 41445), (21, 41469), (22, 41517), (29, 41619), (30, 41649), (31, 41673),

Gene: SG4_61 Start: 40725, Stop: 41303, Start Num: 12

Candidate Starts for SG4_61:

(Start: 12 @40725 has 110 MA's), (14, 40740), (15, 40860), (19, 40962), (20, 41052), (21, 41076), (22, 41124), (28, 41196), (29, 41226), (30, 41256), (31, 41280),

Gene: Sabbb_68 Start: 42259, Stop: 42837, Start Num: 12

Candidate Starts for Sabbb_68:

(3, 42148), (7, 42202), (Start: 12 @42259 has 110 MA's), (13, 42268), (15, 42394), (18, 42451), (20, 42586), (21, 42610), (22, 42658), (29, 42760), (30, 42790), (31, 42814),

Gene: SassyB_58 Start: 39673, Stop: 40251, Start Num: 12

Candidate Starts for SassyB_58:

(Start: 12 @39673 has 110 MA's), (13, 39682), (15, 39808), (19, 39910), (20, 40000), (21, 40024), (22, 40072), (28, 40144), (29, 40174), (30, 40204), (31, 40228),

Gene: Seagreen_63 Start: 41028, Stop: 41606, Start Num: 12

Candidate Starts for Seagreen_63:

(Start: 12 @41028 has 110 MA's), (14, 41043), (15, 41163), (19, 41265), (20, 41355), (21, 41379), (22, 41427), (28, 41499), (29, 41529), (30, 41559), (31, 41583),

Gene: Shauna1_62 Start: 41568, Stop: 42146, Start Num: 12

Candidate Starts for Shauna1_62:

(Start: 12 @41568 has 110 MA's), (14, 41583), (15, 41703), (19, 41805), (20, 41895), (21, 41919), (22, 41967), (28, 42039), (29, 42069), (30, 42099), (31, 42123),

Gene: ShroomBoi_66 Start: 42177, Stop: 42755, Start Num: 12

Candidate Starts for ShroomBoi_66:

(Start: 12 @42177 has 110 MA's), (14, 42192), (15, 42312), (18, 42369), (20, 42504), (21, 42528), (22, 42576), (29, 42678), (30, 42708), (31, 42732),

Gene: SiSi_62 Start: 40627, Stop: 41205, Start Num: 12

Candidate Starts for SiSi_62:

(Start: 12 @40627 has 110 MA's), (14, 40642), (15, 40762), (19, 40864), (20, 40954), (21, 40978), (22, 41026), (28, 41098), (29, 41128), (30, 41158), (31, 41182),

Gene: SilverChicken_74 Start: 41537, Stop: 42115, Start Num: 12

Candidate Starts for SilverChicken_74:

(Start: 12 @41537 has 110 MA's), (14, 41552), (15, 41672), (20, 41864), (21, 41888), (22, 41936), (28, 42008), (29, 42038), (30, 42068), (31, 42092),

Gene: Slim_66 Start: 42478, Stop: 43056, Start Num: 12

Candidate Starts for Slim_66:

(1, 42256), (2, 42346), (9, 42421), (10, 42430), (Start: 12 @42478 has 110 MA's), (14, 42493), (15, 42613), (17, 42661), (20, 42805), (21, 42829), (22, 42877), (29, 42979), (30, 43009), (31, 43033),

Gene: Soul22_70 Start: 42902, Stop: 43480, Start Num: 12

Candidate Starts for Soul22_70:

(Start: 12 @42902 has 110 MA's), (13, 42911), (15, 43037), (20, 43229), (21, 43253), (22, 43301), (29, 43403), (30, 43433), (31, 43457),

Gene: Sparkdehlily_71 Start: 42690, Stop: 43268, Start Num: 12

Candidate Starts for Sparkdehlily_71:

(Start: 12 @42690 has 110 MA's), (14, 42705), (15, 42825), (20, 43017), (21, 43041), (22, 43089), (28, 43161), (29, 43191), (30, 43221), (31, 43245),

Gene: Spartacus_66 Start: 41888, Stop: 42466, Start Num: 12

Candidate Starts for Spartacus_66:

(Start: 12 @41888 has 110 MA's), (14, 41903), (15, 42023), (19, 42125), (20, 42215), (21, 42239), (22, 42287), (28, 42359), (29, 42389), (30, 42419), (31, 42443),

Gene: Spikelee_71 Start: 43487, Stop: 44065, Start Num: 12

Candidate Starts for Spikelee_71:

(Start: 12 @43487 has 110 MA's), (13, 43496), (15, 43622), (17, 43670), (20, 43814), (21, 43838), (22, 43886), (25, 43937), (27, 43943), (28, 43958), (29, 43988), (30, 44018), (31, 44042),

Gene: StAnnes_62 Start: 41746, Stop: 42324, Start Num: 12

Candidate Starts for StAnnes_62:

(Start: 12 @41746 has 110 MA's), (14, 41761), (15, 41881), (19, 41983), (20, 42073), (21, 42097), (22, 42145), (28, 42217), (29, 42247), (30, 42277), (31, 42301),

Gene: Starcevich_64 Start: 41369, Stop: 41947, Start Num: 12

Candidate Starts for Starcevich_64:

(Start: 12 @41369 has 110 MA's), (13, 41378), (15, 41504), (20, 41696), (21, 41720), (28, 41840), (29, 41870), (30, 41900), (31, 41924),

Gene: Strokeseat_60 Start: 39336, Stop: 39914, Start Num: 12

Candidate Starts for Strokeseat_60:

(Start: 12 @39336 has 110 MA's), (14, 39351), (15, 39471), (19, 39573), (20, 39663), (21, 39687), (22, 39735), (28, 39807), (29, 39837), (30, 39867), (31, 39891),

Gene: TDanisky_71 Start: 42690, Stop: 43268, Start Num: 12

Candidate Starts for TDanisky_71:

(Start: 12 @42690 has 110 MA's), (14, 42705), (15, 42825), (20, 43017), (21, 43041), (22, 43089), (28, 43161), (29, 43191), (30, 43221), (31, 43245),

Gene: Totinger_64 Start: 40944, Stop: 41522, Start Num: 12

Candidate Starts for Totinger_64:

(1, 40722), (2, 40812), (9, 40887), (10, 40896), (Start: 12 @40944 has 110 MA's), (14, 40959), (15, 41079), (17, 41127), (20, 41271), (21, 41295), (22, 41343), (29, 41445), (30, 41475), (31, 41499),

Gene: Tweety_64 Start: 42540, Stop: 43118, Start Num: 12

Candidate Starts for Tweety_64:

(Start: 12 @42540 has 110 MA's), (14, 42555), (15, 42675), (19, 42777), (20, 42867), (21, 42891), (22, 42939), (28, 43011), (29, 43041), (30, 43071), (31, 43095),

Gene: UncleRicky_63 Start: 41479, Stop: 42057, Start Num: 12

Candidate Starts for UncleRicky_63:

(Start: 12 @41479 has 110 MA's), (14, 41494), (15, 41614), (19, 41716), (20, 41806), (21, 41830), (22, 41878), (28, 41950), (29, 41980), (30, 42010), (31, 42034),

Gene: Veteran_61 Start: 40223, Stop: 40801, Start Num: 12

Candidate Starts for Veteran_61:

(Start: 12 @40223 has 110 MA's), (13, 40232), (15, 40358), (20, 40550), (21, 40574), (22, 40622), (29, 40724), (30, 40754), (31, 40778),

Gene: Violac_65 Start: 42347, Stop: 42931, Start Num: 12

Candidate Starts for Violac_65:

(11, 42338), (Start: 12 @42347 has 110 MA's), (15, 42488), (20, 42680), (21, 42704), (22, 42752), (29, 42854), (30, 42884), (31, 42908),

Gene: WillSterrel_65 Start: 43005, Stop: 43583, Start Num: 12

Candidate Starts for WillSterrel_65:

(Start: 12 @43005 has 110 MA's), (14, 43020), (15, 43140), (19, 43242), (20, 43332), (21, 43356), (22, 43404), (28, 43476), (29, 43506), (30, 43536), (31, 43560),

Gene: XFactor_62 Start: 40257, Stop: 40835, Start Num: 12

Candidate Starts for XFactor_62:

(Start: 12 @40257 has 110 MA's), (14, 40272), (15, 40392), (19, 40494), (20, 40584), (21, 40608), (22, 40656), (28, 40728), (29, 40758), (30, 40788), (31, 40812),

Gene: Zerg_64 Start: 41101, Stop: 41679, Start Num: 12

Candidate Starts for Zerg_64:

(Start: 12 @41101 has 110 MA's), (13, 41110), (15, 41236), (18, 41293), (20, 41428), (21, 41452), (22, 41500), (29, 41602), (30, 41632), (31, 41656),