



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 196326 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196326 has 169 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Rabinovish_47, Pippy_30, SwagPiggett_37, NormanBulbieJr_37, Koella_30, Nivrat_36, BobaPhett_36, ShowerHandel_37, Zizzle_36, Priscilla_36, Crumble_30, LilMoolah_36, Burwell21_36, Jarcob_36, ShiLan_36, Cabrinians_36
- Track 2 : Blarby_46, Wachhund_36, Phalconet_37, Philus_36
- Track 3 : MulchSalad_35
- Track 4 : Spartacus_39, WillSterrel_39, IrishSherpFalk_39
- Track 5 : DirtMcgirt_37, Drago_38
- Track 6 : KristaRAM_38
- Track 7 : Bobi_38, IbOuu_39, Yassified_47, Stubby_44, Astraea_50, Shaqnato_44, Morizzled23_51, Shauna1_34, Tootsieroll_38
- Track 8 : FreddyB_37
- Track 9 : Martik_37, Doomphist_37, Poenanya_37, Lizziana_36
- Track 10 : Ms6_31, PhesterPhotato_37, Fruitloop_35, StAnnes_36, LunaBlu_40, Strokeseat_38, Melissauren88_36
- Track 11 : Eish_37, Sassafras_37, Radiance_37
- Track 12 : Hegedechwinu_38, SuperGrey_38, MilleniumForce_38, Sandalphon_37, CaptainTrips_37, Donkeykong_37, Moonbeam_37, Chuckly_37, PopTart_36, SassyB_36
- Track 13 : Rialto_41, Akhila_30, Alice_43, Lukilu_43, Koguma_45, Emma_39, EasyJones_50, MilanaBonita_30, Grungle_41, Phanphagia_33, Juice456_39, Phox_47, Coco12_36, JulietS_44, Halldule_44, Ronan_43, Bipolar_34, Blackdragon_45, LRRHood_46, Pinkcreek_40
- Track 14 : Doug_37, Hades_38
- Track 15 : Blexus_36, Filuzino_36, Madiba_35, Latretium_37
- Track 16 : Florinda_37, Sparkdehlily_36, Beakin_37, Oksu_37, TDanisky_36
- Track 17 : MinionDave_39, Batiatus_36, Whatsapiecost_38, Flathead_36
- Track 18 : Gorge_36, Piper2020_39, Ogoopogo_36, DRBy19_36, Mattes_36, James_36, Mova_37, Fastidio_39, Saal_36, DillTech15_36
- Track 19 : LastJedi_30, Maravista_36
- Track 20 : Chevrolet_38
- Track 21 : Alexphander_39, DaWorst_38
- Track 22 : Enby_39, Lorde_39, EleanorGeorge_38
- Track 23 : Awesomesauce_38, TootsiePop_38, ChickenDinner_39, Misha28_38, DocMcStuffins_39
- Track 24 : Hlubikazi_38, Byougenkin_36, Mandlovu_37, Kingsley_36, DLane_36, Gandolph_38, XFactor_36, Soul22_42
- Track 25 : JalFarm20_40

- Track 26 : Rockne_36, Phatniss_37, UncleRicky_39
- Track 27 : Fancypants_36
- Track 28 : Llama_37, Seabastian_37, Ochi17_35, OfUltron_37, Juniper1_36, Rita_38, Jinglebell_36, AlpineSix_37
- Track 29 : Tweety_36, Bubbles123_38, RedBird_36, Aubs_37, MadMen_34
- Track 30 : Estave1_34, SG4_38
- Track 31 : Mahavrat_36
- Track 32 : Galactic_39
- Track 33 : Kenuha5_33
- Track 34 : Whouxphf_38
- Track 35 : Spikelee_38, BodEinwohner17_36, Yorick_36, MulchExplorer_40, Pollywog_36
- Track 36 : Hamulus_37, Mantra_36
- Track 37 : Seagreen_37
- Track 38 : Phasih_37
- Track 39 : IMpilo_36
- Track 40 : Ramsey_39
- Track 41 : Harley_37
- Track 42 : Marker_37
- Track 43 : DosHalletts_38
- Track 44 : DeadP_37
- Track 45 : Ardmore_35
- Track 46 : Renaud18_37
- Track 47 : Aminay_38

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

The start number called the most often in the published annotations is 10, it was called in 103 of the 157 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_30, Alexphander_39, Alice_43, AlpineSix_37, Aminay_38, Aubs_37, Awesomesauce_38, Bipolar_34, Blackdragon_45, Blexus_36, BobaPhett_36, Bubbles123_38, Burwell21_36, Byougenkin_36, Cabrinians_36, CaptainTrips_37, Chevrolet_38, ChickenDinner_39, Chuckly_37, Coco12_36, Crumble_30, DLane_36, DRBy19_36, DaWorst_38, DeadP_37, DillTech15_36, DocMcStuffins_39, Donkeykong_37, DosHalletts_38, EasyJones_50, Eish_37, EleanorGeorge_38, Emma_39, Enby_39, Fastidio_39, Filuzino_36, FreddyB_37, Galactic_39, Gandalph_38, Gorge_36, Grungle_41, Halldule_44, Hegedechwinu_38, Hlubikazi_38, James_36, Jarcob_36, Jinglebell_36, Juice456_39, JulietS_44, Juniper1_36, Kenuha5_33, Kingsley_36, Koella_30, Koguma_45, KristaRAM_38, LRRHood_46, Latretium_37, LilMoolah_36, Llama_37, Lorde_39, Lukilu_43, MadMen_34, Madiba_35, Mahavrat_36, Mandlovu_37, Marker_37, Mattes_36, MilanaBonita_30, MilleniumForce_38, Misha28_38, Moonbeam_37, Mova_37, Nivrat_36, NormanBulbieJr_37, Ochi17_35, OfUltron_37, Ogopogo_36, Phanphagia_33, Phasih_37, Phox_47, Pinkcreek_40, Piper2020_39, Pippy_30, PopTart_36, Priscilla_36, Rabinovish_47, Radiance_37, RedBird_36, Renaud18_37, Rialto_41, Rita_38, Ronan_43, Saal_36, Sandalphon_37, Sassafras_37, SassyB_36, Seabastian_37, ShiLan_36, ShowerHandel_37, Soul22_42, SuperGrey_38, SwagPiggett_37, TootsiePop_38, Tweety_36, Whouxphf_38, XFactor_36, Zizzle_36,

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

- Ardmore_35, Astraea_50, Batiatus_36, Beakin_37, Blarby_46, Bobi_38, BodEinwohner17_36, DirtMcgirt_37, Doomphist_37, Doug_37, Drago_38, Estave1_34, Fancypants_36, Flathead_36, Florinda_37, Fruitloop_35, Hades_38, Hamulus_37, Harley_37, IMpilo_36, IbOuu_39, IrishSherpFalk_39, JalFarm20_40, LastJedi_30, Lizziana_36, LunaBlu_40, Mantra_36, Maravista_36, Martik_37, Melissauren88_36, MinionDave_39, Morizzled23_51, Ms6_31, MulchExplorer_40, MulchSalad_35, Oksu_37, Phalconet_37, Phatniss_37, PhesterPhotato_37, Philus_36, Poenanya_37, Pollywog_36, Ramsey_39, Rockne_36, SG4_38, Seagreen_37, Shaqnato_44, Shauna1_34, Sparkdehlily_36, Spartacus_39, Spikelee_38, StAnnes_36, Strokeseat_38, Stubby_44, TDanisky_36, Tootsieroll_38, UncleRicky_39, Wachhund_36, Whatsapiecost_38, WillSterrel_39, Yassified_47, Yorick_36,

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

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Summary by start number:

Start 8:

- Found in 55 of 169 (32.5%) of genes in pham
- Manual Annotations of this start: 5 of 157
- Called 9.1% of time when present
- Phage (with cluster) where this start called: LastJedi_30 (F1), Maravista_36 (F1), Phatniss_37 (F1), Rockne_36 (F1), UncleRicky_39 (F1),

Start 9:

- Found in 55 of 169 (32.5%) of genes in pham
- Manual Annotations of this start: 18 of 157
- Called 38.2% of time when present
- Phage (with cluster) where this start called: Beakin_37 (F1), BodEinwohner17_36 (F1), DirtMcgirt_37 (F1), Doug_37 (F1), Drago_38 (F1), Fancypants_36 (F1), Florinda_37 (F1), Hades_38 (F1), Hamulus_37 (F1), Harley_37 (F1), Mantra_36 (F1), MulchExplorer_40 (F1), MulchSalad_35 (F), Oksu_37 (F1), Pollywog_36 (F1), Ramsey_39 (F1), Seagreen_37 (F1), Sparkdehlily_36 (F1), Spikelee_38 (F1), TDanisky_36 (F1), Yorick_36 (F1),

Start 10:

- Found in 169 of 169 (100.0%) of genes in pham
- Manual Annotations of this start: 103 of 157
- Called 63.3% of time when present
- Phage (with cluster) where this start called: Akhila_30 (F1), Alexphander_39 (F1), Alice_43 (C1), AlpineSix_37 (F1), Aminay_38 (K7), Aubs_37 (F1), Awesomesauce_38 (F1), Bipolar_34 (F1), Blackdragon_45 (C1), Blexus_36 (F1), BobaPhett_36 (F1), Bubbles123_38 (F1), Burwell21_36 (F1), Byougenkin_36 (F1), Cabrinians_36 (F1), CaptainTrips_37 (F1), Chevrolet_38 (F1), ChickenDinner_39 (F1), Chuckly_37 (F1), Coco12_36 (F1), Crumble_30 (F1), DLane_36 (F1), DRBy19_36 (F1), DaWorst_38 (F1), DeadP_37 (F1), DillTech15_36 (F1), DocMcStuffins_39 (F1), Donkeykong_37 (F1), DosHalletts_38 (F1), EasyJones_50 (C1), Eish_37 (F1), EleanorGeorge_38 (F1), Emma_39 (F1), Enby_39 (F1), Fastidio_39 (F1), Filuzino_36 (F1), FreddyB_37 (F1), Galactic_39 (F1), Gandolph_38 (F1), Gorge_36 (F1), Grungle_41 (C1), Halldule_44 (C1), Hegedechwinu_38 (F1),

Hlubikazi_38 (F1), James_36 (F1), Jarcob_36 (F1), Jinglebell_36 (F1), Juice456_39 (F1), JulietS_44 (C1), Juniper1_36 (F1), Kenuha5_33 (F1), Kingsley_36 (F1), Koella_30 (F1), Koguma_45 (C1), KristaRAM_38 (F1), LRRHood_46 (C1), Latretium_37 (F1), LilMoolah_36 (F1), Llama_37 (F1), Lorde_39 (F1), Lukilu_43 (C1), MadMen_34 (F1), Madiba_35 (F1), Mahavrat_36 (F1), Mandlovu_37 (F1), Marker_37 (F1), Mattes_36 (F1), MilanaBonita_30 (F1), MilleniumForce_38 (F1), Misha28_38 (F1), Moonbeam_37 (F1), Mova_37 (F1), Nivrat_36 (F1), NormanBulbieJr_37 (F1), Ochi17_35 (F1), OfUltron_37 (F1), Ogopogo_36 (F1), Phanphagia_33 (F1), Phasih_37 (F1), Phox_47 (C1), Pinkcreek_40 (C1), Piper2020_39 (F1), Pippy_30 (F1), PopTart_36 (F1), Priscilla_36 (F1), Rabinovish_47 (C1), Radiance_37 (F1), RedBird_36 (F1), Renaud18_37 (F4), Rialto_41 (F1), Rita_38 (F1), Ronan_43 (C1), Saal_36 (F1), Sandalphon_37 (F1), Sassafras_37 (F1), SassyB_36 (F1), Sebastian_37 (F1), ShiLan_36 (F1), ShowerHandel_37 (F1), Soul22_42 (F2), SuperGrey_38 (F1), SwagPigglett_37 (F1), TootsiePop_38 (F1), Tweety_36 (F1), Whouxphf_38 (F1), XFactor_36 (F1), Zizzle_36 (F1),

Start 11:

- Found in 113 of 169 (66.9%) of genes in pham
- Manual Annotations of this start: 31 of 157
- Called 31.9% of time when present
- Phage (with cluster) where this start called: Ardmere_35 (F1), Astraea_50 (C1), Batiatus_36 (F1), Blarby_46 (F), Bobi_38 (F1), Doomphist_37 (F1), Estave1_34 (F1), Flathead_36 (F1), Fruitloop_35 (F1), IMpilo_36 (F1), IbOuu_39 (F1), IrishSherpFalk_39 (F1), JalFarm20_40 (F1), Lizziana_36 (F1), LunaBlu_40 (F1), Martik_37 (F1), Melissauren88_36 (F1), MinionDave_39 (F1), Morizzled23_51 (C1), Ms6_31 (F1), Phalconet_37 (F1), PhesterPhotato_37 (F1), Philus_36 (F1), Poenanya_37 (F1), SG4_38 (F1), Shaq nato_44 (C1), Shauna1_34 (F1), Spartacus_39 (F1), StAnnes_36 (F1), Strokeseat_38 (F1), Stubby_44 (C1), Tootsieroll_38 (F1), Wachhund_36 (F1), Whatsapiecost_38 (F1), WillSterrel_39 (F1), Yassified_47 (C1),

Summary by clusters:

There are 6 clusters represented in this pham: F1, F2, F4, F, K7, C1,

Info for manual annotations of cluster C1:

- Start number 10 was manually annotated 10 times for cluster C1.
- Start number 11 was manually annotated 5 times for cluster C1.

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 5 times for cluster F1.
- Start number 9 was manually annotated 18 times for cluster F1.
- Start number 10 was manually annotated 90 times for cluster F1.
- Start number 11 was manually annotated 26 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 10 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:

- Start number 10 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster K7:

- Start number 10 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: Akhila_30 Start: 26361, Stop: 26582, Start Num: 10

Candidate Starts for Akhila_30:

(Start: 10 @26361 has 103 MA's), (Start: 11 @26364 has 31 MA's), (14, 26403), (15, 26412), (16, 26430), (17, 26442), (18, 26445), (20, 26457), (21, 26481), (22, 26487), (24, 26502), (27, 26544), (28, 26547),

Gene: Alexphander_39 Start: 31054, Stop: 31275, Start Num: 10

Candidate Starts for Alexphander_39:

(6, 30985), (Start: 8 @31024 has 5 MA's), (Start: 9 @31042 has 18 MA's), (Start: 10 @31054 has 103 MA's), (14, 31096), (18, 31138), (20, 31150), (21, 31174), (28, 31240),

Gene: Alice_43 Start: 14907, Stop: 14686, Start Num: 10

Candidate Starts for Alice_43:

(Start: 10 @14907 has 103 MA's), (Start: 11 @14904 has 31 MA's), (14, 14865), (15, 14856), (16, 14838), (17, 14826), (18, 14823), (20, 14811), (21, 14787), (22, 14781), (24, 14766), (27, 14724), (28, 14721),

Gene: AlpineSix_37 Start: 30499, Stop: 30720, Start Num: 10

Candidate Starts for AlpineSix_37:

(6, 30430), (Start: 8 @30469 has 5 MA's), (Start: 9 @30487 has 18 MA's), (Start: 10 @30499 has 103 MA's), (14, 30541), (18, 30583), (20, 30595), (21, 30619), (28, 30685),

Gene: Aminay_38 Start: 31323, Stop: 31559, Start Num: 10

Candidate Starts for Aminay_38:

(1, 31065), (3, 31221), (4, 31224), (5, 31227), (7, 31269), (Start: 10 @31323 has 103 MA's), (13, 31362), (17, 31404), (19, 31413), (20, 31419), (23, 31455), (25, 31464), (26, 31494), (27, 31506), (28, 31509),

Gene: Ardmore_35 Start: 30281, Stop: 30496, Start Num: 11

Candidate Starts for Ardmore_35:

(Start: 10 @30278 has 103 MA's), (Start: 11 @30281 has 31 MA's), (14, 30317), (15, 30326), (16, 30344), (17, 30356), (18, 30359), (20, 30371), (21, 30395), (24, 30416), (27, 30458), (28, 30461),

Gene: Astraea_50 Start: 16300, Stop: 16082, Start Num: 11

Candidate Starts for Astraea_50:

(Start: 10 @16303 has 103 MA's), (Start: 11 @16300 has 31 MA's), (14, 16261), (15, 16252), (16, 16234), (17, 16222), (18, 16219), (20, 16207), (21, 16183), (22, 16177), (24, 16162), (27, 16120), (28, 16117),

Gene: Aubs_37 Start: 30615, Stop: 30836, Start Num: 10

Candidate Starts for Aubs_37:

(5, 30525), (6, 30546), (Start: 8 @30585 has 5 MA's), (Start: 9 @30603 has 18 MA's), (Start: 10 @30615 has 103 MA's), (14, 30657), (17, 30696), (21, 30735), (22, 30741), (24, 30756), (27, 30798), (28, 30801),

Gene: Awesomesauce_38 Start: 30167, Stop: 30388, Start Num: 10

Candidate Starts for Awesomesauce_38:

(Start: 10 @30167 has 103 MA's), (Start: 11 @30170 has 31 MA's), (15, 30218), (18, 30251), (20, 30263), (21, 30287), (22, 30293), (28, 30353),

Gene: Batiatus_36 Start: 30274, Stop: 30489, Start Num: 11

Candidate Starts for Batiatus_36:

(Start: 10 @30271 has 103 MA's), (Start: 11 @30274 has 31 MA's), (14, 30310), (15, 30319), (16, 30337), (17, 30349), (18, 30352), (20, 30364), (21, 30388), (22, 30394), (24, 30409), (27, 30451), (28, 30454),

Gene: Beakin_37 Start: 30174, Stop: 30407, Start Num: 9

Candidate Starts for Beakin_37:

(6, 30117), (Start: 8 @30156 has 5 MA's), (Start: 9 @30174 has 18 MA's), (Start: 10 @30186 has 103 MA's), (14, 30228), (18, 30270), (20, 30282), (21, 30306), (28, 30372),

Gene: Bipolar_34 Start: 29357, Stop: 29578, Start Num: 10

Candidate Starts for Bipolar_34:

(Start: 10 @29357 has 103 MA's), (Start: 11 @29360 has 31 MA's), (14, 29399), (15, 29408), (16, 29426), (17, 29438), (18, 29441), (20, 29453), (21, 29477), (22, 29483), (24, 29498), (27, 29540), (28, 29543),

Gene: Blackdragon_45 Start: 15234, Stop: 15013, Start Num: 10

Candidate Starts for Blackdragon_45:

(Start: 10 @15234 has 103 MA's), (Start: 11 @15231 has 31 MA's), (14, 15192), (15, 15183), (16, 15165), (17, 15153), (18, 15150), (20, 15138), (21, 15114), (22, 15108), (24, 15093), (27, 15051), (28, 15048),

Gene: Blarby_46 Start: 30753, Stop: 30971, Start Num: 11

Candidate Starts for Blarby_46:

(Start: 10 @30750 has 103 MA's), (Start: 11 @30753 has 31 MA's), (15, 30801), (16, 30819), (17, 30831), (18, 30834), (20, 30846), (21, 30870), (22, 30876), (24, 30891), (27, 30933), (28, 30936),

Gene: Blexus_36 Start: 30607, Stop: 30828, Start Num: 10

Candidate Starts for Blexus_36:

(6, 30538), (Start: 8 @30577 has 5 MA's), (Start: 9 @30595 has 18 MA's), (Start: 10 @30607 has 103 MA's), (14, 30649), (17, 30688), (21, 30727), (22, 30733), (24, 30748), (27, 30790), (28, 30793),

Gene: BobaPhett_36 Start: 30477, Stop: 30698, Start Num: 10

Candidate Starts for BobaPhett_36:

(Start: 10 @30477 has 103 MA's), (Start: 11 @30480 has 31 MA's), (15, 30528), (16, 30546), (17, 30558), (18, 30561), (20, 30573), (21, 30597), (24, 30618), (27, 30660), (28, 30663),

Gene: Bobi_38 Start: 30987, Stop: 31202, Start Num: 11

Candidate Starts for Bobi_38:

(Start: 10 @30984 has 103 MA's), (Start: 11 @30987 has 31 MA's), (14, 31023), (15, 31032), (16, 31050), (17, 31062), (18, 31065), (20, 31077), (21, 31101), (22, 31107), (24, 31122), (27, 31164), (28, 31167),

Gene: BodEinwohner17_36 Start: 30665, Stop: 30898, Start Num: 9

Candidate Starts for BodEinwohner17_36:

(6, 30608), (Start: 8 @30647 has 5 MA's), (Start: 9 @30665 has 18 MA's), (Start: 10 @30677 has 103 MA's), (14, 30719), (17, 30758), (21, 30797), (22, 30803), (24, 30818), (27, 30860), (28, 30863),

Gene: Bubbles123_38 Start: 31264, Stop: 31485, Start Num: 10

Candidate Starts for Bubbles123_38:

(5, 31174), (6, 31195), (Start: 8 @31234 has 5 MA's), (Start: 9 @31252 has 18 MA's), (Start: 10 @31264 has 103 MA's), (14, 31306), (17, 31345), (21, 31384), (22, 31390), (24, 31405), (27, 31447), (28, 31450),

Gene: Burwell21_36 Start: 30460, Stop: 30681, Start Num: 10

Candidate Starts for Burwell21_36:

(Start: 10 @30460 has 103 MA's), (Start: 11 @30463 has 31 MA's), (15, 30511), (16, 30529), (17, 30541), (18, 30544), (20, 30556), (21, 30580), (24, 30601), (27, 30643), (28, 30646),

Gene: Byougenkin_36 Start: 30359, Stop: 30580, Start Num: 10

Candidate Starts for Byougenkin_36:

(Start: 10 @30359 has 103 MA's), (Start: 11 @30362 has 31 MA's), (15, 30410), (16, 30428), (17, 30440), (18, 30443), (20, 30455), (21, 30479), (22, 30485), (24, 30500), (27, 30542), (28, 30545),

Gene: Cabrinians_36 Start: 30538, Stop: 30759, Start Num: 10

Candidate Starts for Cabrinians_36:

(Start: 10 @30538 has 103 MA's), (Start: 11 @30541 has 31 MA's), (15, 30589), (16, 30607), (17, 30619), (18, 30622), (20, 30634), (21, 30658), (24, 30679), (27, 30721), (28, 30724),

Gene: CaptainTrips_37 Start: 30684, Stop: 30902, Start Num: 10

Candidate Starts for CaptainTrips_37:

(Start: 10 @30684 has 103 MA's), (Start: 11 @30687 has 31 MA's), (14, 30723), (15, 30732), (16, 30750), (17, 30762), (18, 30765), (20, 30777), (21, 30801), (22, 30807), (24, 30822), (27, 30864), (28, 30867),

Gene: Chevrolet_38 Start: 30835, Stop: 31056, Start Num: 10

Candidate Starts for Chevrolet_38:

(6, 30766), (Start: 8 @30805 has 5 MA's), (Start: 9 @30823 has 18 MA's), (Start: 10 @30835 has 103 MA's), (14, 30877), (17, 30916), (21, 30955), (28, 31021),

Gene: ChickenDinner_39 Start: 30905, Stop: 31126, Start Num: 10

Candidate Starts for ChickenDinner_39:

(Start: 10 @30905 has 103 MA's), (Start: 11 @30908 has 31 MA's), (15, 30956), (18, 30989), (20, 31001), (21, 31025), (22, 31031), (28, 31091),

Gene: Chuckly_37 Start: 30459, Stop: 30680, Start Num: 10

Candidate Starts for Chuckly_37:

(Start: 10 @30459 has 103 MA's), (Start: 11 @30462 has 31 MA's), (14, 30501), (15, 30510), (16, 30528), (17, 30540), (18, 30543), (20, 30555), (21, 30579), (22, 30585), (24, 30600), (27, 30642), (28, 30645),

Gene: Coco12_36 Start: 30344, Stop: 30565, Start Num: 10

Candidate Starts for Coco12_36:

(Start: 10 @30344 has 103 MA's), (Start: 11 @30347 has 31 MA's), (14, 30386), (15, 30395), (16, 30413), (17, 30425), (18, 30428), (20, 30440), (21, 30464), (22, 30470), (24, 30485), (27, 30527), (28, 30530),

Gene: Crumble_30 Start: 26474, Stop: 26695, Start Num: 10

Candidate Starts for Crumble_30:

(Start: 10 @26474 has 103 MA's), (Start: 11 @26477 has 31 MA's), (15, 26525), (16, 26543), (17, 26555), (18, 26558), (20, 26570), (21, 26594), (24, 26615), (27, 26657), (28, 26660),

Gene: DLane_36 Start: 30248, Stop: 30469, Start Num: 10

Candidate Starts for DLane_36:

(Start: 10 @30248 has 103 MA's), (Start: 11 @30251 has 31 MA's), (15, 30299), (16, 30317), (17, 30329), (18, 30332), (20, 30344), (21, 30368), (22, 30374), (24, 30389), (27, 30431), (28, 30434),

Gene: DRBy19_36 Start: 30386, Stop: 30607, Start Num: 10

Candidate Starts for DRBy19_36:

(Start: 10 @30386 has 103 MA's), (Start: 11 @30389 has 31 MA's), (15, 30437), (16, 30455), (17, 30467), (18, 30470), (20, 30482), (21, 30506), (22, 30512), (24, 30527), (27, 30569), (28, 30572),

Gene: DaWorst_38 Start: 30828, Stop: 31049, Start Num: 10

Candidate Starts for DaWorst_38:

(6, 30759), (Start: 8 @30798 has 5 MA's), (Start: 9 @30816 has 18 MA's), (Start: 10 @30828 has 103 MA's), (14, 30870), (18, 30912), (20, 30924), (21, 30948), (28, 31014),

Gene: DeadP_37 Start: 30447, Stop: 30668, Start Num: 10

Candidate Starts for DeadP_37:

(5, 30357), (6, 30378), (Start: 8 @30417 has 5 MA's), (Start: 9 @30435 has 18 MA's), (Start: 10 @30447 has 103 MA's), (14, 30489), (17, 30528), (18, 30531), (21, 30567), (24, 30588), (27, 30630), (28, 30633),

Gene: DillTech15_36 Start: 30376, Stop: 30594, Start Num: 10

Candidate Starts for DillTech15_36:

(Start: 10 @30376 has 103 MA's), (Start: 11 @30379 has 31 MA's), (15, 30424), (16, 30442), (17, 30454), (18, 30457), (20, 30469), (21, 30493), (22, 30499), (24, 30514), (27, 30556), (28, 30559),

Gene: DirtMcgirt_37 Start: 30102, Stop: 30335, Start Num: 9

Candidate Starts for DirtMcgirt_37:

(6, 30045), (Start: 8 @30084 has 5 MA's), (Start: 9 @30102 has 18 MA's), (Start: 10 @30114 has 103 MA's), (14, 30156), (17, 30195), (21, 30234), (22, 30240), (24, 30255), (27, 30297), (28, 30300),

Gene: DocMcStuffins_39 Start: 30905, Stop: 31126, Start Num: 10

Candidate Starts for DocMcStuffins_39:

(Start: 10 @30905 has 103 MA's), (Start: 11 @30908 has 31 MA's), (15, 30956), (18, 30989), (20, 31001), (21, 31025), (22, 31031), (28, 31091),

Gene: Donkeykong_37 Start: 30472, Stop: 30693, Start Num: 10

Candidate Starts for Donkeykong_37:

(Start: 10 @30472 has 103 MA's), (Start: 11 @30475 has 31 MA's), (14, 30514), (15, 30523), (16, 30541), (17, 30553), (18, 30556), (20, 30568), (21, 30592), (22, 30598), (24, 30613), (27, 30655), (28, 30658),

Gene: Doomphist_37 Start: 30411, Stop: 30629, Start Num: 11

Candidate Starts for Doomphist_37:

(Start: 10 @30408 has 103 MA's), (Start: 11 @30411 has 31 MA's), (15, 30459), (16, 30477), (17, 30489), (18, 30492), (20, 30504), (21, 30528), (24, 30549), (27, 30591), (28, 30594),

Gene: DosHalletts_38 Start: 30672, Stop: 30890, Start Num: 10

Candidate Starts for DosHalletts_38:

(Start: 10 @30672 has 103 MA's), (Start: 11 @30675 has 31 MA's), (14, 30711), (15, 30720), (16, 30738), (17, 30750), (18, 30753), (21, 30789), (24, 30810), (27, 30852), (28, 30855),

Gene: Doug_37 Start: 30840, Stop: 31073, Start Num: 9

Candidate Starts for Doug_37:

(6, 30783), (Start: 8 @30822 has 5 MA's), (Start: 9 @30840 has 18 MA's), (Start: 10 @30852 has 103 MA's), (14, 30894), (18, 30936), (20, 30948), (21, 30972), (28, 31038),

Gene: Drago_38 Start: 30095, Stop: 30328, Start Num: 9

Candidate Starts for Drago_38:

(6, 30038), (Start: 8 @30077 has 5 MA's), (Start: 9 @30095 has 18 MA's), (Start: 10 @30107 has 103 MA's), (14, 30149), (17, 30188), (21, 30227), (22, 30233), (24, 30248), (27, 30290), (28, 30293),

Gene: EasyJones_50 Start: 15986, Stop: 15765, Start Num: 10

Candidate Starts for EasyJones_50:

(Start: 10 @15986 has 103 MA's), (Start: 11 @15983 has 31 MA's), (14, 15944), (15, 15935), (16, 15917), (17, 15905), (18, 15902), (20, 15890), (21, 15866), (22, 15860), (24, 15845), (27, 15803), (28, 15800),

Gene: Eish_37 Start: 30996, Stop: 31217, Start Num: 10

Candidate Starts for Eish_37:

(6, 30927), (Start: 8 @30966 has 5 MA's), (Start: 9 @30984 has 18 MA's), (Start: 10 @30996 has 103 MA's), (14, 31038), (17, 31077), (21, 31116), (22, 31122), (28, 31182),

Gene: EleanorGeorge_38 Start: 31025, Stop: 31246, Start Num: 10

Candidate Starts for EleanorGeorge_38:

(Start: 10 @31025 has 103 MA's), (Start: 11 @31028 has 31 MA's), (12, 31043), (15, 31076), (16, 31094), (17, 31106), (18, 31109), (20, 31121), (21, 31145), (22, 31151), (24, 31166), (27, 31208), (28, 31211),

Gene: Emma_39 Start: 30889, Stop: 31110, Start Num: 10

Candidate Starts for Emma_39:

(Start: 10 @30889 has 103 MA's), (Start: 11 @30892 has 31 MA's), (14, 30931), (15, 30940), (16, 30958), (17, 30970), (18, 30973), (20, 30985), (21, 31009), (22, 31015), (24, 31030), (27, 31072), (28, 31075),

Gene: Enby_39 Start: 30554, Stop: 30775, Start Num: 10

Candidate Starts for Enby_39:

(Start: 10 @30554 has 103 MA's), (Start: 11 @30557 has 31 MA's), (12, 30572), (15, 30605), (16, 30623), (17, 30635), (18, 30638), (20, 30650), (21, 30674), (22, 30680), (24, 30695), (27, 30737), (28, 30740),

Gene: Estave1_34 Start: 29814, Stop: 30032, Start Num: 11

Candidate Starts for Estave1_34:

(Start: 10 @29811 has 103 MA's), (Start: 11 @29814 has 31 MA's), (12, 29829), (15, 29862), (16, 29880), (17, 29892), (18, 29895), (20, 29907), (21, 29931), (22, 29937), (24, 29952), (27, 29994), (28, 29997),

Gene: Fancypants_36 Start: 30285, Stop: 30518, Start Num: 9

Candidate Starts for Fancypants_36:

(6, 30228), (Start: 8 @30267 has 5 MA's), (Start: 9 @30285 has 18 MA's), (Start: 10 @30297 has 103 MA's), (14, 30339), (17, 30378), (20, 30393), (21, 30417), (22, 30423), (27, 30480), (28, 30483),

Gene: Fastidio_39 Start: 30605, Stop: 30823, Start Num: 10

Candidate Starts for Fastidio_39:

(Start: 10 @30605 has 103 MA's), (Start: 11 @30608 has 31 MA's), (15, 30653), (16, 30671), (17, 30683), (18, 30686), (20, 30698), (21, 30722), (22, 30728), (24, 30743), (27, 30785), (28, 30788),

Gene: Filuzino_36 Start: 30240, Stop: 30461, Start Num: 10

Candidate Starts for Filuzino_36:

(6, 30171), (Start: 8 @30210 has 5 MA's), (Start: 9 @30228 has 18 MA's), (Start: 10 @30240 has 103 MA's), (14, 30282), (17, 30321), (21, 30360), (22, 30366), (24, 30381), (27, 30423), (28, 30426),

Gene: Flathead_36 Start: 30889, Stop: 31104, Start Num: 11

Candidate Starts for Flathead_36:

(Start: 10 @30886 has 103 MA's), (Start: 11 @30889 has 31 MA's), (14, 30925), (15, 30934), (16, 30952), (17, 30964), (18, 30967), (20, 30979), (21, 31003), (22, 31009), (24, 31024), (27, 31066), (28, 31069),

Gene: Florinda_37 Start: 30277, Stop: 30510, Start Num: 9

Candidate Starts for Florinda_37:

(6, 30220), (Start: 8 @30259 has 5 MA's), (Start: 9 @30277 has 18 MA's), (Start: 10 @30289 has 103 MA's), (14, 30331), (18, 30373), (20, 30385), (21, 30409), (28, 30475),

Gene: FreddyB_37 Start: 30554, Stop: 30775, Start Num: 10

Candidate Starts for FreddyB_37:

(6, 30485), (Start: 8 @30524 has 5 MA's), (Start: 9 @30542 has 18 MA's), (Start: 10 @30554 has 103 MA's), (14, 30596), (18, 30638), (20, 30650), (21, 30674), (22, 30680), (28, 30740),

Gene: Fruitloop_35 Start: 30437, Stop: 30652, Start Num: 11

Candidate Starts for Fruitloop_35:

(Start: 10 @30434 has 103 MA's), (Start: 11 @30437 has 31 MA's), (15, 30482), (16, 30500), (17, 30512), (18, 30515), (20, 30527), (21, 30551), (22, 30557), (24, 30572), (27, 30614), (28, 30617),

Gene: Galactic_39 Start: 31126, Stop: 31332, Start Num: 10

Candidate Starts for Galactic_39:

(Start: 10 @31126 has 103 MA's), (Start: 11 @31129 has 31 MA's), (15, 31177), (16, 31195), (17, 31207), (18, 31210), (20, 31222), (29, 31324),

Gene: Gandalph_38 Start: 30624, Stop: 30845, Start Num: 10

Candidate Starts for Gandalph_38:

(Start: 10 @30624 has 103 MA's), (Start: 11 @30627 has 31 MA's), (15, 30675), (16, 30693), (17, 30705), (18, 30708), (20, 30720), (21, 30744), (22, 30750), (24, 30765), (27, 30807), (28, 30810),

Gene: Gorge_36 Start: 30520, Stop: 30741, Start Num: 10

Candidate Starts for Gorge_36:

(Start: 10 @30520 has 103 MA's), (Start: 11 @30523 has 31 MA's), (15, 30571), (16, 30589), (17, 30601), (18, 30604), (20, 30616), (21, 30640), (22, 30646), (24, 30661), (27, 30703), (28, 30706),

Gene: Grungle_41 Start: 13722, Stop: 13501, Start Num: 10

Candidate Starts for Grungle_41:

(Start: 10 @13722 has 103 MA's), (Start: 11 @13719 has 31 MA's), (14, 13680), (15, 13671), (16, 13653), (17, 13641), (18, 13638), (20, 13626), (21, 13602), (22, 13596), (24, 13581), (27, 13539), (28, 13536),

Gene: Hades_38 Start: 30608, Stop: 30841, Start Num: 9

Candidate Starts for Hades_38:

(6, 30551), (Start: 8 @30590 has 5 MA's), (Start: 9 @30608 has 18 MA's), (Start: 10 @30620 has 103 MA's), (14, 30662), (18, 30704), (20, 30716), (21, 30740), (28, 30806),

Gene: Halldule_44 Start: 14174, Stop: 13953, Start Num: 10

Candidate Starts for Halldule_44:

(Start: 10 @14174 has 103 MA's), (Start: 11 @14171 has 31 MA's), (14, 14132), (15, 14123), (16, 14105), (17, 14093), (18, 14090), (20, 14078), (21, 14054), (22, 14048), (24, 14033), (27, 13991), (28, 13988),

Gene: Hamulus_37 Start: 31270, Stop: 31503, Start Num: 9

Candidate Starts for Hamulus_37:

(5, 31192), (6, 31213), (Start: 8 @31252 has 5 MA's), (Start: 9 @31270 has 18 MA's), (Start: 10 @31282 has 103 MA's), (18, 31366), (20, 31378), (21, 31402), (22, 31408), (28, 31468),

Gene: Harley_37 Start: 30214, Stop: 30447, Start Num: 9

Candidate Starts for Harley_37:

(6, 30157), (Start: 8 @30196 has 5 MA's), (Start: 9 @30214 has 18 MA's), (Start: 10 @30226 has 103 MA's), (14, 30268), (18, 30310), (20, 30322), (21, 30346), (22, 30352), (28, 30412),

Gene: Hegedechwinu_38 Start: 30315, Stop: 30533, Start Num: 10

Candidate Starts for Hegedechwinu_38:

(Start: 10 @30315 has 103 MA's), (Start: 11 @30318 has 31 MA's), (14, 30354), (15, 30363), (16, 30381), (17, 30393), (18, 30396), (20, 30408), (21, 30432), (22, 30438), (24, 30453), (27, 30495), (28, 30498),

Gene: Hlubikazi_38 Start: 31112, Stop: 31330, Start Num: 10

Candidate Starts for Hlubikazi_38:

(Start: 10 @31112 has 103 MA's), (Start: 11 @31115 has 31 MA's), (15, 31160), (16, 31178), (17, 31190), (18, 31193), (20, 31205), (21, 31229), (22, 31235), (24, 31250), (27, 31292), (28, 31295),

Gene: IMpilo_36 Start: 30096, Stop: 30314, Start Num: 11

Candidate Starts for IMpilo_36:

(Start: 10 @30093 has 103 MA's), (Start: 11 @30096 has 31 MA's), (15, 30144), (16, 30162), (17, 30174), (18, 30177), (21, 30213), (22, 30219), (24, 30234), (27, 30276), (28, 30279),

Gene: IbOuu_39 Start: 30868, Stop: 31086, Start Num: 11

Candidate Starts for IbOuu_39:

(Start: 10 @30865 has 103 MA's), (Start: 11 @30868 has 31 MA's), (14, 30907), (15, 30916), (16, 30934), (17, 30946), (18, 30949), (20, 30961), (21, 30985), (22, 30991), (24, 31006), (27, 31048), (28, 31051),

Gene: IrishSherpFalk_39 Start: 31884, Stop: 32102, Start Num: 11

Candidate Starts for IrishSherpFalk_39:

(Start: 10 @31881 has 103 MA's), (Start: 11 @31884 has 31 MA's), (12, 31899), (15, 31932), (16, 31950), (17, 31962), (18, 31965), (21, 32001), (24, 32022), (27, 32064), (28, 32067),

Gene: JalFarm20_40 Start: 31369, Stop: 31587, Start Num: 11

Candidate Starts for JalFarm20_40:

(Start: 10 @31366 has 103 MA's), (Start: 11 @31369 has 31 MA's), (12, 31384), (15, 31417), (16, 31435), (17, 31447), (18, 31450), (20, 31462), (21, 31486), (24, 31507), (27, 31549), (28, 31552),

Gene: James_36 Start: 30477, Stop: 30698, Start Num: 10

Candidate Starts for James_36:

(Start: 10 @30477 has 103 MA's), (Start: 11 @30480 has 31 MA's), (15, 30528), (16, 30546), (17, 30558), (18, 30561), (20, 30573), (21, 30597), (22, 30603), (24, 30618), (27, 30660), (28, 30663),

Gene: Jarcob_36 Start: 30512, Stop: 30733, Start Num: 10

Candidate Starts for Jarcob_36:

(Start: 10 @30512 has 103 MA's), (Start: 11 @30515 has 31 MA's), (15, 30563), (16, 30581), (17, 30593), (18, 30596), (20, 30608), (21, 30632), (24, 30653), (27, 30695), (28, 30698),

Gene: Jinglebell_36 Start: 30498, Stop: 30719, Start Num: 10

Candidate Starts for Jinglebell_36:

(6, 30429), (Start: 8 @30468 has 5 MA's), (Start: 9 @30486 has 18 MA's), (Start: 10 @30498 has 103 MA's), (14, 30540), (18, 30582), (20, 30594), (21, 30618), (28, 30684),

Gene: Juice456_39 Start: 31586, Stop: 31807, Start Num: 10

Candidate Starts for Juice456_39:

(Start: 10 @31586 has 103 MA's), (Start: 11 @31589 has 31 MA's), (14, 31628), (15, 31637), (16, 31655), (17, 31667), (18, 31670), (20, 31682), (21, 31706), (22, 31712), (24, 31727), (27, 31769), (28, 31772),

Gene: JulietS_44 Start: 14025, Stop: 13804, Start Num: 10

Candidate Starts for JulietS_44:

(Start: 10 @14025 has 103 MA's), (Start: 11 @14022 has 31 MA's), (14, 13983), (15, 13974), (16, 13956), (17, 13944), (18, 13941), (20, 13929), (21, 13905), (22, 13899), (24, 13884), (27, 13842), (28, 13839),

Gene: Juniper1_36 Start: 30256, Stop: 30477, Start Num: 10

Candidate Starts for Juniper1_36:

(6, 30187), (Start: 8 @30226 has 5 MA's), (Start: 9 @30244 has 18 MA's), (Start: 10 @30256 has 103 MA's), (14, 30298), (18, 30340), (20, 30352), (21, 30376), (28, 30442),

Gene: Kenuha5_33 Start: 29400, Stop: 29621, Start Num: 10

Candidate Starts for Kenuha5_33:

(Start: 10 @29400 has 103 MA's), (Start: 11 @29403 has 31 MA's), (14, 29442), (15, 29451), (16, 29469), (17, 29481), (18, 29484), (21, 29520), (22, 29526), (24, 29541), (27, 29583), (28, 29586),

Gene: Kingsley_36 Start: 30109, Stop: 30327, Start Num: 10

Candidate Starts for Kingsley_36:

(Start: 10 @30109 has 103 MA's), (Start: 11 @30112 has 31 MA's), (15, 30157), (16, 30175), (17, 30187), (18, 30190), (20, 30202), (21, 30226), (22, 30232), (24, 30247), (27, 30289), (28, 30292),

Gene: Koella_30 Start: 26436, Stop: 26657, Start Num: 10

Candidate Starts for Koella_30:

(Start: 10 @26436 has 103 MA's), (Start: 11 @26439 has 31 MA's), (15, 26487), (16, 26505), (17, 26517), (18, 26520), (20, 26532), (21, 26556), (24, 26577), (27, 26619), (28, 26622),

Gene: Koguma_45 Start: 14368, Stop: 14147, Start Num: 10

Candidate Starts for Koguma_45:

(Start: 10 @14368 has 103 MA's), (Start: 11 @14365 has 31 MA's), (14, 14326), (15, 14317), (16, 14299), (17, 14287), (18, 14284), (20, 14272), (21, 14248), (22, 14242), (24, 14227), (27, 14185), (28, 14182),

Gene: KristaRAM_38 Start: 31109, Stop: 31330, Start Num: 10

Candidate Starts for KristaRAM_38:

(Start: 10 @31109 has 103 MA's), (Start: 11 @31112 has 31 MA's), (14, 31151), (15, 31160), (16, 31178), (17, 31190), (18, 31193), (20, 31205), (21, 31229), (24, 31250), (27, 31292), (28, 31295),

Gene: LRRHood_46 Start: 16291, Stop: 16070, Start Num: 10

Candidate Starts for LRRHood_46:

(Start: 10 @16291 has 103 MA's), (Start: 11 @16288 has 31 MA's), (14, 16249), (15, 16240), (16, 16222), (17, 16210), (18, 16207), (20, 16195), (21, 16171), (22, 16165), (24, 16150), (27, 16108), (28, 16105),

Gene: LastJedi_30 Start: 26440, Stop: 26691, Start Num: 8

Candidate Starts for LastJedi_30:

(5, 26380), (6, 26401), (Start: 8 @26440 has 5 MA's), (Start: 9 @26458 has 18 MA's), (Start: 10 @26470 has 103 MA's), (14, 26512), (17, 26551), (21, 26590), (22, 26596), (24, 26611), (27, 26653), (28, 26656),

Gene: Latretium_37 Start: 31069, Stop: 31290, Start Num: 10

Candidate Starts for Latretium_37:

(6, 31000), (Start: 8 @31039 has 5 MA's), (Start: 9 @31057 has 18 MA's), (Start: 10 @31069 has 103 MA's), (14, 31111), (17, 31150), (21, 31189), (22, 31195), (24, 31210), (27, 31252), (28, 31255),

Gene: LilMoolah_36 Start: 30560, Stop: 30781, Start Num: 10

Candidate Starts for LilMoolah_36:

(Start: 10 @30560 has 103 MA's), (Start: 11 @30563 has 31 MA's), (15, 30611), (16, 30629), (17, 30641), (18, 30644), (20, 30656), (21, 30680), (24, 30701), (27, 30743), (28, 30746),

Gene: Lizziana_36 Start: 30438, Stop: 30656, Start Num: 11

Candidate Starts for Lizziana_36:

(Start: 10 @30435 has 103 MA's), (Start: 11 @30438 has 31 MA's), (15, 30486), (16, 30504), (17, 30516), (18, 30519), (20, 30531), (21, 30555), (24, 30576), (27, 30618), (28, 30621),

Gene: Llama_37 Start: 30497, Stop: 30718, Start Num: 10

Candidate Starts for Llama_37:

(6, 30428), (Start: 8 @30467 has 5 MA's), (Start: 9 @30485 has 18 MA's), (Start: 10 @30497 has 103 MA's), (14, 30539), (18, 30581), (20, 30593), (21, 30617), (28, 30683),

Gene: Lorde_39 Start: 30529, Stop: 30750, Start Num: 10

Candidate Starts for Lorde_39:

(Start: 10 @30529 has 103 MA's), (Start: 11 @30532 has 31 MA's), (12, 30547), (15, 30580), (16, 30598), (17, 30610), (18, 30613), (20, 30625), (21, 30649), (22, 30655), (24, 30670), (27, 30712), (28, 30715),

Gene: Lukilu_43 Start: 15493, Stop: 15272, Start Num: 10

Candidate Starts for Lukilu_43:

(Start: 10 @15493 has 103 MA's), (Start: 11 @15490 has 31 MA's), (14, 15451), (15, 15442), (16, 15424), (17, 15412), (18, 15409), (20, 15397), (21, 15373), (22, 15367), (24, 15352), (27, 15310), (28, 15307),

Gene: LunaBlu_40 Start: 31303, Stop: 31521, Start Num: 11

Candidate Starts for LunaBlu_40:

(Start: 10 @31300 has 103 MA's), (Start: 11 @31303 has 31 MA's), (15, 31351), (16, 31369), (17, 31381), (18, 31384), (20, 31396), (21, 31420), (22, 31426), (24, 31441), (27, 31483), (28, 31486),

Gene: MadMen_34 Start: 29725, Stop: 29946, Start Num: 10

Candidate Starts for MadMen_34:

(5, 29635), (6, 29656), (Start: 8 @29695 has 5 MA's), (Start: 9 @29713 has 18 MA's), (Start: 10 @29725 has 103 MA's), (14, 29767), (17, 29806), (21, 29845), (22, 29851), (24, 29866), (27, 29908),

(28, 29911),

Gene: Madiba_35 Start: 29198, Stop: 29419, Start Num: 10

Candidate Starts for Madiba_35:

(6, 29129), (Start: 8 @29168 has 5 MA's), (Start: 9 @29186 has 18 MA's), (Start: 10 @29198 has 103 MA's), (14, 29240), (17, 29279), (21, 29318), (22, 29324), (24, 29339), (27, 29381), (28, 29384),

Gene: Mahavrat_36 Start: 30329, Stop: 30550, Start Num: 10

Candidate Starts for Mahavrat_36:

(6, 30260), (Start: 8 @30299 has 5 MA's), (Start: 9 @30317 has 18 MA's), (Start: 10 @30329 has 103 MA's), (14, 30371), (18, 30413), (20, 30425), (21, 30449), (24, 30470), (27, 30512), (28, 30515),

Gene: Mandlovu_37 Start: 31054, Stop: 31272, Start Num: 10

Candidate Starts for Mandlovu_37:

(Start: 10 @31054 has 103 MA's), (Start: 11 @31057 has 31 MA's), (15, 31102), (16, 31120), (17, 31132), (18, 31135), (20, 31147), (21, 31171), (22, 31177), (24, 31192), (27, 31234), (28, 31237),

Gene: Mantra_36 Start: 30377, Stop: 30610, Start Num: 9

Candidate Starts for Mantra_36:

(5, 30299), (6, 30320), (Start: 8 @30359 has 5 MA's), (Start: 9 @30377 has 18 MA's), (Start: 10 @30389 has 103 MA's), (18, 30473), (20, 30485), (21, 30509), (22, 30515), (28, 30575),

Gene: Maravista_36 Start: 30190, Stop: 30441, Start Num: 8

Candidate Starts for Maravista_36:

(5, 30130), (6, 30151), (Start: 8 @30190 has 5 MA's), (Start: 9 @30208 has 18 MA's), (Start: 10 @30220 has 103 MA's), (14, 30262), (17, 30301), (21, 30340), (22, 30346), (24, 30361), (27, 30403), (28, 30406),

Gene: Marker_37 Start: 30156, Stop: 30377, Start Num: 10

Candidate Starts for Marker_37:

(5, 30066), (6, 30087), (Start: 8 @30126 has 5 MA's), (Start: 9 @30144 has 18 MA's), (Start: 10 @30156 has 103 MA's), (14, 30198), (18, 30240), (20, 30252), (21, 30276), (22, 30282), (24, 30297), (27, 30339), (28, 30342),

Gene: Martik_37 Start: 30465, Stop: 30683, Start Num: 11

Candidate Starts for Martik_37:

(Start: 10 @30462 has 103 MA's), (Start: 11 @30465 has 31 MA's), (15, 30513), (16, 30531), (17, 30543), (18, 30546), (20, 30558), (21, 30582), (24, 30603), (27, 30645), (28, 30648),

Gene: Mattes_36 Start: 30477, Stop: 30698, Start Num: 10

Candidate Starts for Mattes_36:

(Start: 10 @30477 has 103 MA's), (Start: 11 @30480 has 31 MA's), (15, 30528), (16, 30546), (17, 30558), (18, 30561), (20, 30573), (21, 30597), (22, 30603), (24, 30618), (27, 30660), (28, 30663),

Gene: Melissauren88_36 Start: 30433, Stop: 30648, Start Num: 11

Candidate Starts for Melissauren88_36:

(Start: 10 @30430 has 103 MA's), (Start: 11 @30433 has 31 MA's), (15, 30478), (16, 30496), (17, 30508), (18, 30511), (20, 30523), (21, 30547), (22, 30553), (24, 30568), (27, 30610), (28, 30613),

Gene: MilanaBonita_30 Start: 26361, Stop: 26582, Start Num: 10

Candidate Starts for MilanaBonita_30:

(Start: 10 @26361 has 103 MA's), (Start: 11 @26364 has 31 MA's), (14, 26403), (15, 26412), (16, 26430), (17, 26442), (18, 26445), (20, 26457), (21, 26481), (22, 26487), (24, 26502), (27, 26544), (28,

26547),

Gene: MilleniumForce_38 Start: 31222, Stop: 31440, Start Num: 10

Candidate Starts for MilleniumForce_38:

(Start: 10 @31222 has 103 MA's), (Start: 11 @31225 has 31 MA's), (14, 31261), (15, 31270), (16, 31288), (17, 31300), (18, 31303), (20, 31315), (21, 31339), (22, 31345), (24, 31360), (27, 31402), (28, 31405),

Gene: MinionDave_39 Start: 31462, Stop: 31677, Start Num: 11

Candidate Starts for MinionDave_39:

(Start: 10 @31459 has 103 MA's), (Start: 11 @31462 has 31 MA's), (14, 31498), (15, 31507), (16, 31525), (17, 31537), (18, 31540), (20, 31552), (21, 31576), (22, 31582), (24, 31597), (27, 31639), (28, 31642),

Gene: Misha28_38 Start: 30172, Stop: 30393, Start Num: 10

Candidate Starts for Misha28_38:

(Start: 10 @30172 has 103 MA's), (Start: 11 @30175 has 31 MA's), (15, 30223), (18, 30256), (20, 30268), (21, 30292), (22, 30298), (28, 30358),

Gene: Moonbeam_37 Start: 30976, Stop: 31194, Start Num: 10

Candidate Starts for Moonbeam_37:

(Start: 10 @30976 has 103 MA's), (Start: 11 @30979 has 31 MA's), (14, 31015), (15, 31024), (16, 31042), (17, 31054), (18, 31057), (20, 31069), (21, 31093), (22, 31099), (24, 31114), (27, 31156), (28, 31159),

Gene: Morizzled23_51 Start: 15991, Stop: 15773, Start Num: 11

Candidate Starts for Morizzled23_51:

(Start: 10 @15994 has 103 MA's), (Start: 11 @15991 has 31 MA's), (14, 15952), (15, 15943), (16, 15925), (17, 15913), (18, 15910), (20, 15898), (21, 15874), (22, 15868), (24, 15853), (27, 15811), (28, 15808),

Gene: Mova_37 Start: 30111, Stop: 30332, Start Num: 10

Candidate Starts for Mova_37:

(Start: 10 @30111 has 103 MA's), (Start: 11 @30114 has 31 MA's), (15, 30162), (16, 30180), (17, 30192), (18, 30195), (20, 30207), (21, 30231), (22, 30237), (24, 30252), (27, 30294), (28, 30297),

Gene: Ms6_31 Start: 25896, Stop: 26114, Start Num: 11

Candidate Starts for Ms6_31:

(Start: 10 @25893 has 103 MA's), (Start: 11 @25896 has 31 MA's), (15, 25944), (16, 25962), (17, 25974), (18, 25977), (20, 25989), (21, 26013), (22, 26019), (24, 26034), (27, 26076), (28, 26079),

Gene: MulchExplorer_40 Start: 31401, Stop: 31634, Start Num: 9

Candidate Starts for MulchExplorer_40:

(6, 31344), (Start: 8 @31383 has 5 MA's), (Start: 9 @31401 has 18 MA's), (Start: 10 @31413 has 103 MA's), (14, 31455), (17, 31494), (21, 31533), (22, 31539), (24, 31554), (27, 31596), (28, 31599),

Gene: MulchSalad_35 Start: 27165, Stop: 27398, Start Num: 9

Candidate Starts for MulchSalad_35:

(2, 26949), (6, 27108), (Start: 8 @27147 has 5 MA's), (Start: 9 @27165 has 18 MA's), (Start: 10 @27177 has 103 MA's), (18, 27261), (20, 27273), (21, 27297), (22, 27303), (28, 27363),

Gene: Nivrat_36 Start: 30434, Stop: 30655, Start Num: 10

Candidate Starts for Nivrat_36:

(Start: 10 @30434 has 103 MA's), (Start: 11 @30437 has 31 MA's), (15, 30485), (16, 30503), (17, 30515), (18, 30518), (20, 30530), (21, 30554), (24, 30575), (27, 30617), (28, 30620),

Gene: NormanBulbieJr_37 Start: 30449, Stop: 30670, Start Num: 10

Candidate Starts for NormanBulbieJr_37:

(Start: 10 @30449 has 103 MA's), (Start: 11 @30452 has 31 MA's), (15, 30500), (16, 30518), (17, 30530), (18, 30533), (20, 30545), (21, 30569), (24, 30590), (27, 30632), (28, 30635),

Gene: Ochi17_35 Start: 29949, Stop: 30170, Start Num: 10

Candidate Starts for Ochi17_35:

(6, 29880), (Start: 8 @29919 has 5 MA's), (Start: 9 @29937 has 18 MA's), (Start: 10 @29949 has 103 MA's), (14, 29991), (18, 30033), (20, 30045), (21, 30069), (28, 30135),

Gene: OfUltron_37 Start: 30498, Stop: 30719, Start Num: 10

Candidate Starts for OfUltron_37:

(6, 30429), (Start: 8 @30468 has 5 MA's), (Start: 9 @30486 has 18 MA's), (Start: 10 @30498 has 103 MA's), (14, 30540), (18, 30582), (20, 30594), (21, 30618), (28, 30684),

Gene: Ogopogo_36 Start: 29642, Stop: 29863, Start Num: 10

Candidate Starts for Ogopogo_36:

(Start: 10 @29642 has 103 MA's), (Start: 11 @29645 has 31 MA's), (15, 29693), (16, 29711), (17, 29723), (18, 29726), (20, 29738), (21, 29762), (22, 29768), (24, 29783), (27, 29825), (28, 29828),

Gene: Oksu_37 Start: 30330, Stop: 30563, Start Num: 9

Candidate Starts for Oksu_37:

(6, 30273), (Start: 8 @30312 has 5 MA's), (Start: 9 @30330 has 18 MA's), (Start: 10 @30342 has 103 MA's), (14, 30384), (18, 30426), (20, 30438), (21, 30462), (28, 30528),

Gene: Phalconet_37 Start: 30400, Stop: 30615, Start Num: 11

Candidate Starts for Phalconet_37:

(Start: 10 @30397 has 103 MA's), (Start: 11 @30400 has 31 MA's), (15, 30445), (16, 30463), (17, 30475), (18, 30478), (20, 30490), (21, 30514), (22, 30520), (24, 30535), (27, 30577), (28, 30580),

Gene: Phanphagia_33 Start: 29419, Stop: 29640, Start Num: 10

Candidate Starts for Phanphagia_33:

(Start: 10 @29419 has 103 MA's), (Start: 11 @29422 has 31 MA's), (14, 29461), (15, 29470), (16, 29488), (17, 29500), (18, 29503), (20, 29515), (21, 29539), (22, 29545), (24, 29560), (27, 29602), (28, 29605),

Gene: Phasih_37 Start: 30847, Stop: 31068, Start Num: 10

Candidate Starts for Phasih_37:

(6, 30778), (Start: 8 @30817 has 5 MA's), (Start: 9 @30835 has 18 MA's), (Start: 10 @30847 has 103 MA's), (14, 30889), (18, 30931), (20, 30943), (21, 30967), (22, 30973), (28, 31033),

Gene: Phatniss_37 Start: 30758, Stop: 31009, Start Num: 8

Candidate Starts for Phatniss_37:

(6, 30719), (Start: 8 @30758 has 5 MA's), (Start: 9 @30776 has 18 MA's), (Start: 10 @30788 has 103 MA's), (14, 30830), (17, 30869), (21, 30908), (22, 30914), (24, 30929), (27, 30971), (28, 30974),

Gene: PhesterPhotato_37 Start: 30320, Stop: 30538, Start Num: 11

Candidate Starts for PhesterPhotato_37:

(Start: 10 @30317 has 103 MA's), (Start: 11 @30320 has 31 MA's), (15, 30368), (16, 30386), (17, 30398), (18, 30401), (20, 30413), (21, 30437), (22, 30443), (24, 30458), (27, 30500), (28, 30503),

Gene: Philus_36 Start: 30365, Stop: 30583, Start Num: 11

Candidate Starts for Philus_36:

(Start: 10 @30362 has 103 MA's), (Start: 11 @30365 has 31 MA's), (15, 30413), (16, 30431), (17, 30443), (18, 30446), (20, 30458), (21, 30482), (22, 30488), (24, 30503), (27, 30545), (28, 30548),

Gene: Phox_47 Start: 16755, Stop: 16534, Start Num: 10

Candidate Starts for Phox_47:

(Start: 10 @16755 has 103 MA's), (Start: 11 @16752 has 31 MA's), (14, 16713), (15, 16704), (16, 16686), (17, 16674), (18, 16671), (20, 16659), (21, 16635), (22, 16629), (24, 16614), (27, 16572), (28, 16569),

Gene: Pinkcreek_40 Start: 14224, Stop: 14003, Start Num: 10

Candidate Starts for Pinkcreek_40:

(Start: 10 @14224 has 103 MA's), (Start: 11 @14221 has 31 MA's), (14, 14182), (15, 14173), (16, 14155), (17, 14143), (18, 14140), (20, 14128), (21, 14104), (22, 14098), (24, 14083), (27, 14041), (28, 14038),

Gene: Piper2020_39 Start: 30888, Stop: 31109, Start Num: 10

Candidate Starts for Piper2020_39:

(Start: 10 @30888 has 103 MA's), (Start: 11 @30891 has 31 MA's), (15, 30939), (16, 30957), (17, 30969), (18, 30972), (20, 30984), (21, 31008), (22, 31014), (24, 31029), (27, 31071), (28, 31074),

Gene: Pippy_30 Start: 26425, Stop: 26646, Start Num: 10

Candidate Starts for Pippy_30:

(Start: 10 @26425 has 103 MA's), (Start: 11 @26428 has 31 MA's), (15, 26476), (16, 26494), (17, 26506), (18, 26509), (20, 26521), (21, 26545), (24, 26566), (27, 26608), (28, 26611),

Gene: Poenanya_37 Start: 30411, Stop: 30629, Start Num: 11

Candidate Starts for Poenanya_37:

(Start: 10 @30408 has 103 MA's), (Start: 11 @30411 has 31 MA's), (15, 30459), (16, 30477), (17, 30489), (18, 30492), (20, 30504), (21, 30528), (24, 30549), (27, 30591), (28, 30594),

Gene: Pollywog_36 Start: 30608, Stop: 30841, Start Num: 9

Candidate Starts for Pollywog_36:

(6, 30551), (Start: 8 @30590 has 5 MA's), (Start: 9 @30608 has 18 MA's), (Start: 10 @30620 has 103 MA's), (14, 30662), (17, 30701), (21, 30740), (22, 30746), (24, 30761), (27, 30803), (28, 30806),

Gene: PopTart_36 Start: 30601, Stop: 30819, Start Num: 10

Candidate Starts for PopTart_36:

(Start: 10 @30601 has 103 MA's), (Start: 11 @30604 has 31 MA's), (14, 30640), (15, 30649), (16, 30667), (17, 30679), (18, 30682), (20, 30694), (21, 30718), (22, 30724), (24, 30739), (27, 30781), (28, 30784),

Gene: Priscilla_36 Start: 30547, Stop: 30768, Start Num: 10

Candidate Starts for Priscilla_36:

(Start: 10 @30547 has 103 MA's), (Start: 11 @30550 has 31 MA's), (15, 30598), (16, 30616), (17, 30628), (18, 30631), (20, 30643), (21, 30667), (24, 30688), (27, 30730), (28, 30733),

Gene: Rabinovish_47 Start: 16933, Stop: 16712, Start Num: 10

Candidate Starts for Rabinovish_47:

(Start: 10 @16933 has 103 MA's), (Start: 11 @16930 has 31 MA's), (15, 16882), (16, 16864), (17, 16852), (18, 16849), (20, 16837), (21, 16813), (24, 16792), (27, 16750), (28, 16747),

Gene: Radiance_37 Start: 30462, Stop: 30683, Start Num: 10

Candidate Starts for Radiance_37:

(6, 30393), (Start: 8 @30432 has 5 MA's), (Start: 9 @30450 has 18 MA's), (Start: 10 @30462 has 103 MA's), (14, 30504), (17, 30543), (21, 30582), (22, 30588), (28, 30648),

Gene: Ramsey_39 Start: 31110, Stop: 31343, Start Num: 9

Candidate Starts for Ramsey_39:

(6, 31053), (Start: 8 @31092 has 5 MA's), (Start: 9 @31110 has 18 MA's), (Start: 10 @31122 has 103 MA's), (14, 31164), (17, 31203), (21, 31242), (22, 31248), (28, 31308),

Gene: RedBird_36 Start: 30268, Stop: 30489, Start Num: 10

Candidate Starts for RedBird_36:

(5, 30178), (6, 30199), (Start: 8 @30238 has 5 MA's), (Start: 9 @30256 has 18 MA's), (Start: 10 @30268 has 103 MA's), (14, 30310), (17, 30349), (21, 30388), (22, 30394), (24, 30409), (27, 30451), (28, 30454),

Gene: Renaud18_37 Start: 30490, Stop: 30711, Start Num: 10

Candidate Starts for Renaud18_37:

(Start: 10 @30490 has 103 MA's), (Start: 11 @30493 has 31 MA's), (15, 30541), (16, 30559), (17, 30571), (18, 30574), (21, 30610), (24, 30631), (27, 30673), (28, 30676),

Gene: Rialto_41 Start: 32618, Stop: 32839, Start Num: 10

Candidate Starts for Rialto_41:

(Start: 10 @32618 has 103 MA's), (Start: 11 @32621 has 31 MA's), (14, 32660), (15, 32669), (16, 32687), (17, 32699), (18, 32702), (20, 32714), (21, 32738), (22, 32744), (24, 32759), (27, 32801), (28, 32804),

Gene: Rita_38 Start: 30536, Stop: 30757, Start Num: 10

Candidate Starts for Rita_38:

(6, 30467), (Start: 8 @30506 has 5 MA's), (Start: 9 @30524 has 18 MA's), (Start: 10 @30536 has 103 MA's), (14, 30578), (18, 30620), (20, 30632), (21, 30656), (28, 30722),

Gene: Rockne_36 Start: 30241, Stop: 30492, Start Num: 8

Candidate Starts for Rockne_36:

(6, 30202), (Start: 8 @30241 has 5 MA's), (Start: 9 @30259 has 18 MA's), (Start: 10 @30271 has 103 MA's), (14, 30313), (17, 30352), (21, 30391), (22, 30397), (24, 30412), (27, 30454), (28, 30457),

Gene: Ronan_43 Start: 13565, Stop: 13344, Start Num: 10

Candidate Starts for Ronan_43:

(Start: 10 @13565 has 103 MA's), (Start: 11 @13562 has 31 MA's), (14, 13523), (15, 13514), (16, 13496), (17, 13484), (18, 13481), (20, 13469), (21, 13445), (22, 13439), (24, 13424), (27, 13382), (28, 13379),

Gene: SG4_38 Start: 31042, Stop: 31260, Start Num: 11

Candidate Starts for SG4_38:

(Start: 10 @31039 has 103 MA's), (Start: 11 @31042 has 31 MA's), (12, 31057), (15, 31090), (16, 31108), (17, 31120), (18, 31123), (20, 31135), (21, 31159), (22, 31165), (24, 31180), (27, 31222), (28, 31225),

Gene: Saal_36 Start: 30340, Stop: 30561, Start Num: 10

Candidate Starts for Saal_36:

(Start: 10 @30340 has 103 MA's), (Start: 11 @30343 has 31 MA's), (15, 30391), (16, 30409), (17, 30421), (18, 30424), (20, 30436), (21, 30460), (22, 30466), (24, 30481), (27, 30523), (28, 30526),

Gene: Sandalphon_37 Start: 31069, Stop: 31290, Start Num: 10

Candidate Starts for Sandalphon_37:

(Start: 10 @31069 has 103 MA's), (Start: 11 @31072 has 31 MA's), (14, 31111), (15, 31120), (16, 31138), (17, 31150), (18, 31153), (20, 31165), (21, 31189), (22, 31195), (24, 31210), (27, 31252), (28, 31255),

Gene: Sassafras_37 Start: 30971, Stop: 31192, Start Num: 10

Candidate Starts for Sassafras_37:

(6, 30902), (Start: 8 @30941 has 5 MA's), (Start: 9 @30959 has 18 MA's), (Start: 10 @30971 has 103 MA's), (14, 31013), (17, 31052), (21, 31091), (22, 31097), (28, 31157),

Gene: SassyB_36 Start: 30601, Stop: 30819, Start Num: 10

Candidate Starts for SassyB_36:

(Start: 10 @30601 has 103 MA's), (Start: 11 @30604 has 31 MA's), (14, 30640), (15, 30649), (16, 30667), (17, 30679), (18, 30682), (20, 30694), (21, 30718), (22, 30724), (24, 30739), (27, 30781), (28, 30784),

Gene: Seabastian_37 Start: 30498, Stop: 30719, Start Num: 10

Candidate Starts for Seabastian_37:

(6, 30429), (Start: 8 @30468 has 5 MA's), (Start: 9 @30486 has 18 MA's), (Start: 10 @30498 has 103 MA's), (14, 30540), (18, 30582), (20, 30594), (21, 30618), (28, 30684),

Gene: Seagreen_37 Start: 30398, Stop: 30631, Start Num: 9

Candidate Starts for Seagreen_37:

(5, 30320), (6, 30341), (Start: 8 @30380 has 5 MA's), (Start: 9 @30398 has 18 MA's), (Start: 10 @30410 has 103 MA's), (14, 30452), (18, 30494), (20, 30506), (21, 30530), (22, 30536), (24, 30551), (27, 30593), (28, 30596),

Gene: Shaqnato_44 Start: 14710, Stop: 14492, Start Num: 11

Candidate Starts for Shaqnato_44:

(Start: 10 @14713 has 103 MA's), (Start: 11 @14710 has 31 MA's), (14, 14671), (15, 14662), (16, 14644), (17, 14632), (18, 14629), (20, 14617), (21, 14593), (22, 14587), (24, 14572), (27, 14530), (28, 14527),

Gene: Shauna1_34 Start: 29425, Stop: 29643, Start Num: 11

Candidate Starts for Shauna1_34:

(Start: 10 @29422 has 103 MA's), (Start: 11 @29425 has 31 MA's), (14, 29464), (15, 29473), (16, 29491), (17, 29503), (18, 29506), (20, 29518), (21, 29542), (22, 29548), (24, 29563), (27, 29605), (28, 29608),

Gene: ShiLan_36 Start: 30503, Stop: 30724, Start Num: 10

Candidate Starts for ShiLan_36:

(Start: 10 @30503 has 103 MA's), (Start: 11 @30506 has 31 MA's), (15, 30554), (16, 30572), (17, 30584), (18, 30587), (20, 30599), (21, 30623), (24, 30644), (27, 30686), (28, 30689),

Gene: ShowerHandel_37 Start: 30462, Stop: 30683, Start Num: 10

Candidate Starts for ShowerHandel_37:

(Start: 10 @30462 has 103 MA's), (Start: 11 @30465 has 31 MA's), (15, 30513), (16, 30531), (17, 30543), (18, 30546), (20, 30558), (21, 30582), (24, 30603), (27, 30645), (28, 30648),

Gene: Soul22_42 Start: 30665, Stop: 30883, Start Num: 10

Candidate Starts for Soul22_42:

(Start: 10 @30665 has 103 MA's), (Start: 11 @30668 has 31 MA's), (15, 30713), (16, 30731), (17, 30743), (18, 30746), (20, 30758), (21, 30782), (22, 30788), (24, 30803), (27, 30845), (28, 30848),

Gene: Sparkdehlily_36 Start: 30375, Stop: 30608, Start Num: 9

Candidate Starts for Sparkdehlily_36:

(6, 30318), (Start: 8 @30357 has 5 MA's), (Start: 9 @30375 has 18 MA's), (Start: 10 @30387 has 103 MA's), (14, 30429), (18, 30471), (20, 30483), (21, 30507), (28, 30573),

Gene: Spartacus_39 Start: 30803, Stop: 31021, Start Num: 11

Candidate Starts for Spartacus_39:

(Start: 10 @30800 has 103 MA's), (Start: 11 @30803 has 31 MA's), (12, 30818), (15, 30851), (16, 30869), (17, 30881), (18, 30884), (21, 30920), (24, 30941), (27, 30983), (28, 30986),

Gene: Spikelee_38 Start: 30523, Stop: 30756, Start Num: 9

Candidate Starts for Spikelee_38:

(6, 30466), (Start: 8 @30505 has 5 MA's), (Start: 9 @30523 has 18 MA's), (Start: 10 @30535 has 103 MA's), (14, 30577), (17, 30616), (21, 30655), (22, 30661), (24, 30676), (27, 30718), (28, 30721),

Gene: StAnnes_36 Start: 30868, Stop: 31086, Start Num: 11

Candidate Starts for StAnnes_36:

(Start: 10 @30865 has 103 MA's), (Start: 11 @30868 has 31 MA's), (15, 30916), (16, 30934), (17, 30946), (18, 30949), (20, 30961), (21, 30985), (22, 30991), (24, 31006), (27, 31048), (28, 31051),

Gene: Strokeseat_38 Start: 31114, Stop: 31329, Start Num: 11

Candidate Starts for Strokeseat_38:

(Start: 10 @31111 has 103 MA's), (Start: 11 @31114 has 31 MA's), (15, 31159), (16, 31177), (17, 31189), (18, 31192), (20, 31204), (21, 31228), (22, 31234), (24, 31249), (27, 31291), (28, 31294),

Gene: Stubby_44 Start: 15552, Stop: 15334, Start Num: 11

Candidate Starts for Stubby_44:

(Start: 10 @15555 has 103 MA's), (Start: 11 @15552 has 31 MA's), (14, 15513), (15, 15504), (16, 15486), (17, 15474), (18, 15471), (20, 15459), (21, 15435), (22, 15429), (24, 15414), (27, 15372), (28, 15369),

Gene: SuperGrey_38 Start: 31257, Stop: 31478, Start Num: 10

Candidate Starts for SuperGrey_38:

(Start: 10 @31257 has 103 MA's), (Start: 11 @31260 has 31 MA's), (14, 31299), (15, 31308), (16, 31326), (17, 31338), (18, 31341), (20, 31353), (21, 31377), (22, 31383), (24, 31398), (27, 31440), (28, 31443),

Gene: SwagPigglett_37 Start: 30273, Stop: 30494, Start Num: 10

Candidate Starts for SwagPigglett_37:

(Start: 10 @30273 has 103 MA's), (Start: 11 @30276 has 31 MA's), (15, 30324), (16, 30342), (17, 30354), (18, 30357), (20, 30369), (21, 30393), (24, 30414), (27, 30456), (28, 30459),

Gene: TDanisky_36 Start: 30375, Stop: 30608, Start Num: 9

Candidate Starts for TDanisky_36:

(6, 30318), (Start: 8 @30357 has 5 MA's), (Start: 9 @30375 has 18 MA's), (Start: 10 @30387 has 103 MA's), (14, 30429), (18, 30471), (20, 30483), (21, 30507), (28, 30573),

Gene: TootsiePop_38 Start: 30172, Stop: 30393, Start Num: 10

Candidate Starts for TootsiePop_38:

(Start: 10 @30172 has 103 MA's), (Start: 11 @30175 has 31 MA's), (15, 30223), (18, 30256), (20, 30268), (21, 30292), (22, 30298), (28, 30358),

Gene: Tootsieroll_38 Start: 30341, Stop: 30559, Start Num: 11

Candidate Starts for Tootsieroll_38:

(Start: 10 @30338 has 103 MA's), (Start: 11 @30341 has 31 MA's), (14, 30380), (15, 30389), (16, 30407), (17, 30419), (18, 30422), (20, 30434), (21, 30458), (22, 30464), (24, 30479), (27, 30521), (28, 30524),

Gene: Tweety_36 Start: 30508, Stop: 30729, Start Num: 10

Candidate Starts for Tweety_36:

(5, 30418), (6, 30439), (Start: 8 @30478 has 5 MA's), (Start: 9 @30496 has 18 MA's), (Start: 10 @30508 has 103 MA's), (14, 30550), (17, 30589), (21, 30628), (22, 30634), (24, 30649), (27, 30691), (28, 30694),

Gene: UncleRicky_39 Start: 31574, Stop: 31825, Start Num: 8

Candidate Starts for UncleRicky_39:

(6, 31535), (Start: 8 @31574 has 5 MA's), (Start: 9 @31592 has 18 MA's), (Start: 10 @31604 has 103 MA's), (14, 31646), (17, 31685), (21, 31724), (22, 31730), (24, 31745), (27, 31787), (28, 31790),

Gene: Wachhund_36 Start: 30465, Stop: 30683, Start Num: 11

Candidate Starts for Wachhund_36:

(Start: 10 @30462 has 103 MA's), (Start: 11 @30465 has 31 MA's), (15, 30513), (16, 30531), (17, 30543), (18, 30546), (20, 30558), (21, 30582), (22, 30588), (24, 30603), (27, 30645), (28, 30648),

Gene: Whatsapiecost_38 Start: 30724, Stop: 30939, Start Num: 11

Candidate Starts for Whatsapiecost_38:

(Start: 10 @30721 has 103 MA's), (Start: 11 @30724 has 31 MA's), (14, 30760), (15, 30769), (16, 30787), (17, 30799), (18, 30802), (20, 30814), (21, 30838), (22, 30844), (24, 30859), (27, 30901), (28, 30904),

Gene: Whouxphf_38 Start: 30779, Stop: 31000, Start Num: 10

Candidate Starts for Whouxphf_38:

(6, 30710), (Start: 8 @30749 has 5 MA's), (Start: 9 @30767 has 18 MA's), (Start: 10 @30779 has 103 MA's), (14, 30821), (18, 30863), (20, 30875), (21, 30899), (22, 30905), (24, 30920), (27, 30962), (28, 30965),

Gene: WillSterrel_39 Start: 31917, Stop: 32135, Start Num: 11

Candidate Starts for WillSterrel_39:

(Start: 10 @31914 has 103 MA's), (Start: 11 @31917 has 31 MA's), (12, 31932), (15, 31965), (16, 31983), (17, 31995), (18, 31998), (21, 32034), (24, 32055), (27, 32097), (28, 32100),

Gene: XFactor_36 Start: 30466, Stop: 30687, Start Num: 10

Candidate Starts for XFactor_36:

(Start: 10 @30466 has 103 MA's), (Start: 11 @30469 has 31 MA's), (15, 30517), (16, 30535), (17, 30547), (18, 30550), (20, 30562), (21, 30586), (22, 30592), (24, 30607), (27, 30649), (28, 30652),

Gene: Yassified_47 Start: 15547, Stop: 15329, Start Num: 11

Candidate Starts for Yassified_47:

(Start: 10 @15550 has 103 MA's), (Start: 11 @15547 has 31 MA's), (14, 15508), (15, 15499), (16, 15481), (17, 15469), (18, 15466), (20, 15454), (21, 15430), (22, 15424), (24, 15409), (27, 15367), (28, 15364),

Gene: Yorick_36 Start: 30450, Stop: 30683, Start Num: 9

Candidate Starts for Yorick_36:

(6, 30393), (Start: 8 @30432 has 5 MA's), (Start: 9 @30450 has 18 MA's), (Start: 10 @30462 has 103 MA's), (14, 30504), (17, 30543), (21, 30582), (22, 30588), (24, 30603), (27, 30645), (28, 30648),

Gene: Zizzle_36 Start: 30404, Stop: 30625, Start Num: 10

Candidate Starts for Zizzle_36:

(Start: 10 @30404 has 103 MA's), (Start: 11 @30407 has 31 MA's), (15, 30455), (16, 30473), (17, 30485), (18, 30488), (20, 30500), (21, 30524), (24, 30545), (27, 30587), (28, 30590),