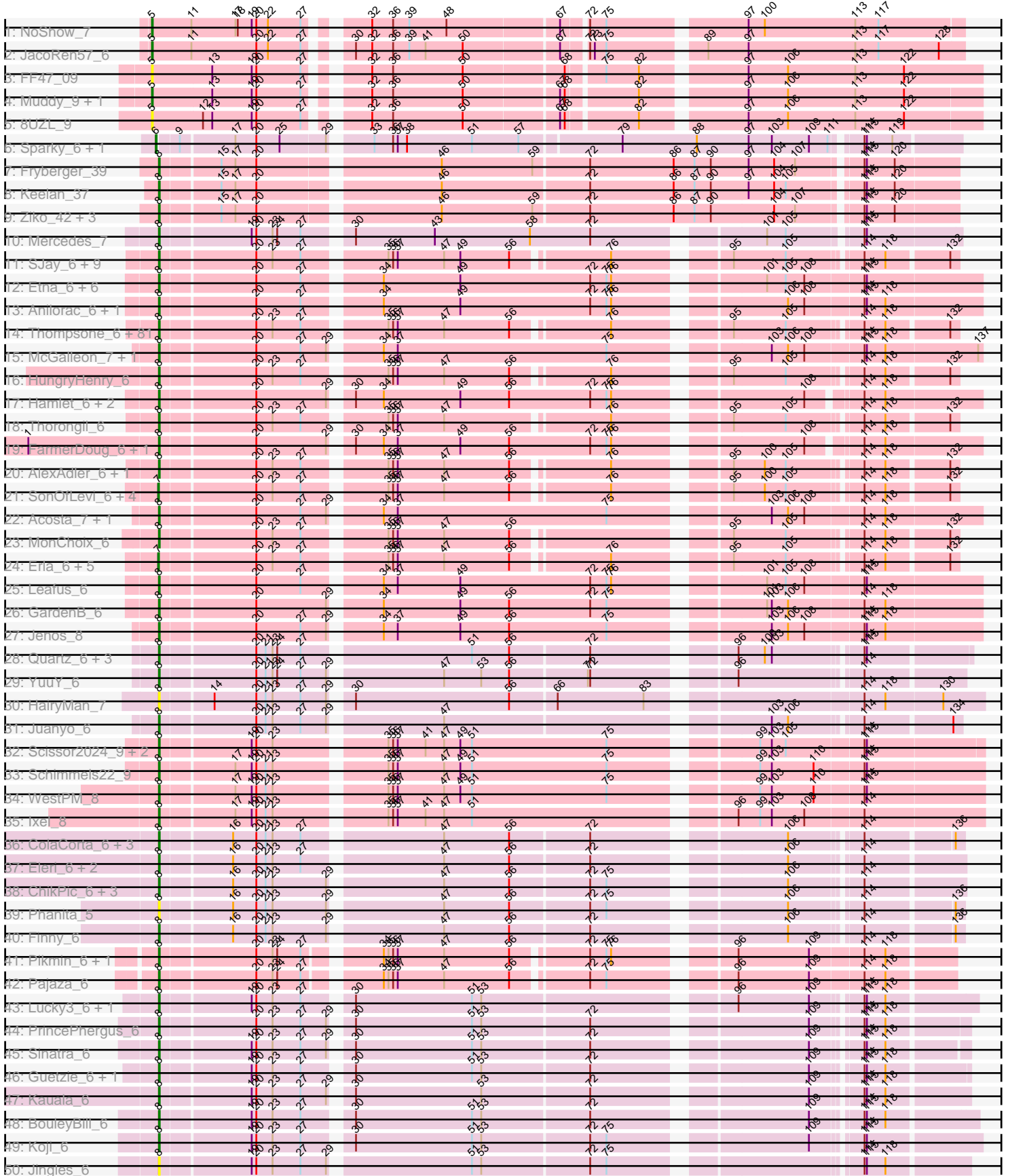
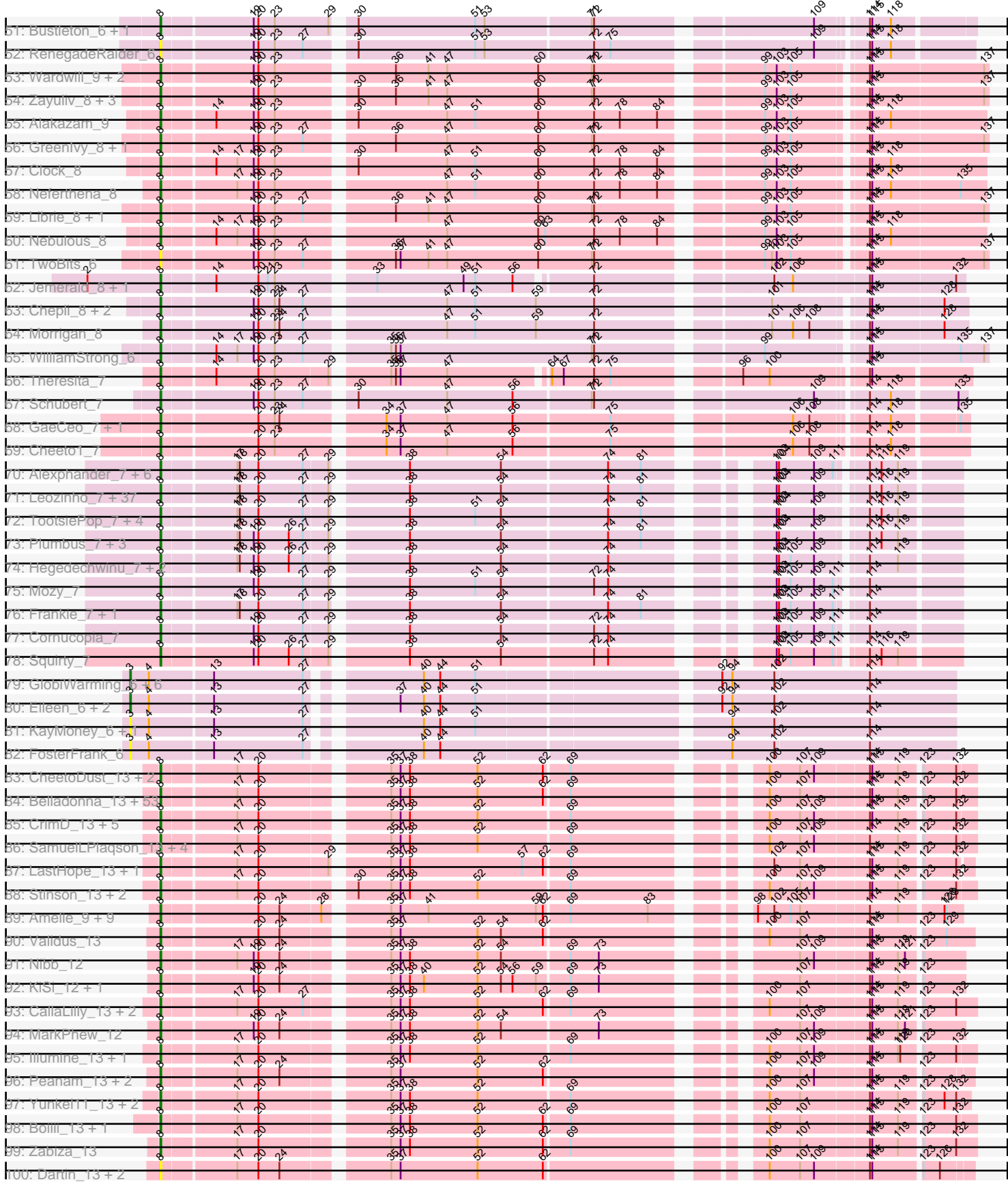


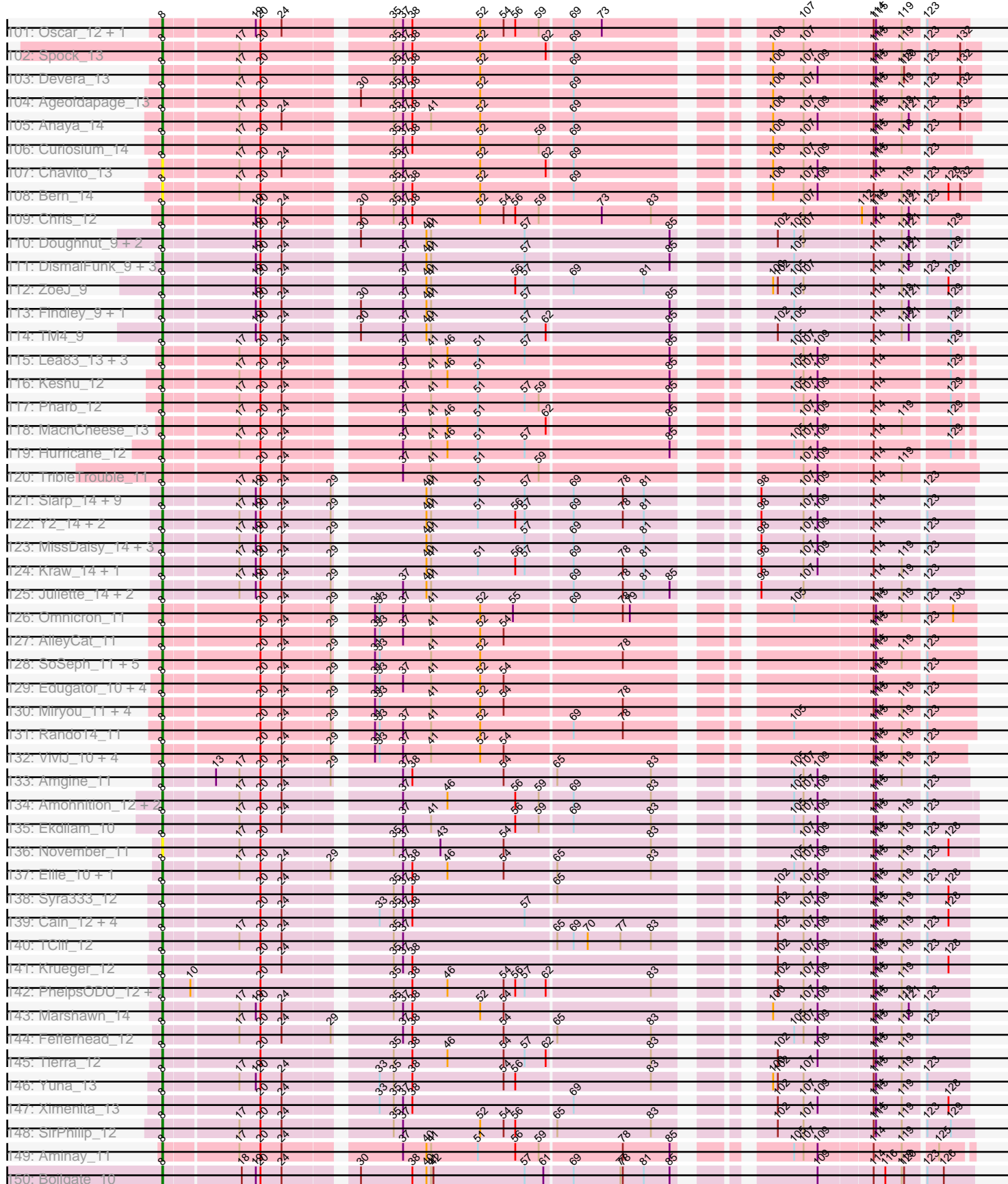
Pham 224152



Pham 224152



Pham 224152



# Pham 224152



A series of horizontal lines for writing, starting from the top of the page and extending down to the bottom. The lines are evenly spaced and cover the majority of the page area.

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 224152 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224152 has 497 members, 55 are drafts.

Phages represented in each track:

- Track 1 : NoShow\_7
- Track 2 : JacoRen57\_6
- Track 3 : FF47\_09
- Track 4 : Muddy\_9, Maco6\_7
- Track 5 : 8UZL\_9
- Track 6 : Sparky\_6, Farewell\_6
- Track 7 : Fryberger\_39
- Track 8 : Keelan\_37
- Track 9 : Ziko\_42, Volt\_41, Ronaldo\_42, Guey18\_44
- Track 10 : Mercedes\_7
- Track 11 : SJay\_6, Peep\_6, Teagan\_6, Nagem\_6, Renzie\_6, Dave\_6, Ludgate\_6, Bandik\_6, Superfresh\_6, Antoinette\_6
- Track 12 : Etna\_6, Stormbreaker8\_6, BeeBee8\_7, Peppino\_6, Redfield\_6, KingJulien\_6, Schnapsidee\_6
- Track 13 : Anilorac\_6, Agente005\_7
- Track 14 : Thompsone\_6, Rapheph\_6, Chako\_6, KannH\_6, Asta\_6, Stanktossa\_6, Figueroism\_6, Byron23\_6, Alyxandracam\_6, Tenda\_6, Vispistious\_6, Gershwin\_6, BonesMcCoy\_6, ShaiHulud\_6, Den3\_6, TeddyBear\_6, Phiderman\_6, Benjalauren\_6, Duocatuli\_6, Lovelyunicorn\_6, Delphidian\_6, AxiPup\_6, HanSolo\_6, HankSprout\_6, Kale\_6, Phireproof\_6, WildNOut\_6, Baines\_6, Papafritta\_6, Aubergine\_6, Ilzat\_6, ParleG\_6, Janus167\_6, Pherferi\_6, Espinosa\_6, Gubbabump\_6, MrWorldwide\_6, Dothraki\_6, Knox\_6, BigRedClifford\_6, Riyhil\_6, SoilGremlin\_6, NickSell\_6, Greys\_6, Jerbirus\_6, Convict\_6, Oxtober96\_6, Blage\_6, JasperRussell\_6, StirfryIV\_6, OldNelly\_6, Kurt1\_6, Phriends\_6, Winzigespinne\_6, Martin\_7, PuppyEggo\_6, Velene\_6, Sedgewig\_6, Rog141\_6, Ioannes\_6, BeautPeep30\_6, Pocket\_6, Clancy\_6, TatarkaPM\_6, TinSulphur\_6, Raptor\_6, MaeLinda\_6, Symere\_6, PhredFlintston\_6, Oats\_6, Exploradora\_6, AranulaLuti\_6, Shee\_6, Inventa\_6, MillyPhilly\_6, Strathdee\_6, Gargoyle\_6, Robinson\_6, RosieMae\_6, ManRay\_6, StingRay\_6, Christoph\_6
- Track 15 : McGalleon\_7, CarisSwetlik\_8
- Track 16 : HungryHenry\_6
- Track 17 : Hamlet\_6, Balsa\_6, Raccoon\_6
- Track 18 : Thorongil\_6
- Track 19 : FarmerDoug\_6, Endor\_7
- Track 20 : AlexAdler\_6, Zada\_6
- Track 21 : SonOfLevi\_6, Klimt\_6, Etta\_6, Gelo\_6, Chamuel\_6
- Track 22 : Acosta\_7, JasonD\_8

- Track 23 : MonChoix\_6
- Track 24 : Erla\_6, JeriBeth\_6, Calix\_6, Nattles\_6, Garey24\_6, Bonino\_6
- Track 25 : Leafus\_6
- Track 26 : GardenB\_6
- Track 27 : Jenos\_8
- Track 28 : Quartz\_6, Mandalorian\_6, Nucci\_6, Carostasia\_6
- Track 29 : YuuY\_6
- Track 30 : HairyMan\_7
- Track 31 : Juanyo\_6
- Track 32 : Scissor2024\_9, Tinyman4\_9, HerculesXL\_9
- Track 33 : Schimmels22\_9
- Track 34 : WestPM\_8
- Track 35 : Ixel\_8
- Track 36 : ColaCorta\_6, Glamour\_5, Saratos\_6, Andromedas\_6
- Track 37 : Eleri\_6, PSirce\_5, Shamu\_6
- Track 38 : ChikPic\_6, MCubed\_6, Zenitsu\_6, Sansa\_5
- Track 39 : Phanita\_5
- Track 40 : Finny\_6
- Track 41 : Pikmin\_6, Casey\_6
- Track 42 : Pajaza\_6
- Track 43 : Lucky3\_6, Golden\_6
- Track 44 : PrincePhergus\_6
- Track 45 : Sinatra\_6
- Track 46 : Guetzie\_6, SirVictor\_6
- Track 47 : Kauala\_6
- Track 48 : BouleyBill\_6
- Track 49 : Koji\_6
- Track 50 : Jingles\_6
- Track 51 : Bustleton\_6, Pherbot\_6
- Track 52 : RenegadeRaider\_6
- Track 53 : Wardwill\_9, Hasitha\_8, LilTerminator\_8
- Track 54 : Zayuliv\_8, QuadZero\_8, Zepp\_9, Fulton\_8
- Track 55 : Alakazam\_9
- Track 56 : Greenlvy\_8, BaronJohn\_8
- Track 57 : Clock\_8
- Track 58 : Neferthena\_8
- Track 59 : Librie\_8, CaptainRex\_8
- Track 60 : Nebulous\_8
- Track 61 : TwoBits\_6
- Track 62 : Jemerald\_8, Juicer\_8
- Track 63 : Chepli\_8, KatChan\_8, Luna18\_8
- Track 64 : Morigan\_8
- Track 65 : WilliamStrong\_6
- Track 66 : Theresita\_7
- Track 67 : Schubert\_7
- Track 68 : GaeCeo\_7, ChickenKing\_6
- Track 69 : Cheeto1\_7
- Track 70 : Alexphander\_7, Brookers\_7, Kingsley\_7, Cerasum\_7, Sarma624\_7, BigPhil\_7, Velveteen\_7
- Track 71 : Leozinho\_7, Spikelee\_7, Bobi\_7, Stap\_7, Job42\_7, Tchotchke\_7, UncleRicky\_7, SimranZ1\_7, Pollywog\_7, OwlsT2W\_7, BuzzLyseyear\_7, Piper2020\_7, Girafales\_7, Marker\_7, DosHalletts\_7, Drago\_7, Lorde\_7, Slim\_8, Boomer\_7, Emmaloid\_8, Starcevich\_7, Beakin\_7, Oksu\_7, DaWorst\_7,

Awesomesauce\_7, Totinger\_7, Coco12\_7, RockyHorror\_7, Enby\_7, Rialto\_7, JalFarm20\_7, DirtMcgirt\_7, Ramsey\_7, LittleShirley\_7, Madiba\_7, Mova\_7, Quico\_7, Tootsieroll\_7

- Track 72 : TootsiePop\_7, Aloeri\_7, DocMcStuffins\_7, Misha28\_7, ChickenDinner\_7
- Track 73 : Plumbus\_7, MulchExplorer\_8, Kimberlium\_7, Juice456\_7
- Track 74 : Hegedechwinu\_7, Brushbloom\_8, Flathead\_7
- Track 75 : Mozy\_7
- Track 76 : Frankie\_7, Seagreen\_7
- Track 77 : Cornucopia\_7
- Track 78 : Squirty\_7
- Track 79 : GlobiWarming\_6, Constance\_6, ChuckDuck\_6, Karkharias\_6, Judy\_6, PeggyLeg03\_6, Bridgette\_6
- Track 80 : Eileen\_6, Peas\_6, HotPotato\_6
- Track 81 : KayMoney\_6, Pucara\_6
- Track 82 : FosterFrank\_6
- Track 83 : CheetoDust\_13, BaghaKamala\_13, Joy99\_13
- Track 84 : Belladonna\_13, Angelica\_13, Mynx\_13, Ganymede\_13, Rosmarinus\_13, Peel\_13, CREW\_13, Inky\_13, MeaningOfLife\_13, Zavala\_13, Jarvi\_13, AlishaPH\_13, Clipper\_14, Capricorn\_13, Lunahalos\_13, Adephagia\_13, Tachez\_13, Deby\_13, Durfee\_13, Ramen\_13, Rapunzel97\_13, BGIlluviae\_13, Piatt\_13, Hyperbowlee\_13, Twitch\_13, Slimphazie\_13, Pokerus\_12, YoureAdopted\_12, QuincyRose\_12, Emerson\_13, Llorens\_13, Jayhawk\_13, CaseJules\_13, Tiri\_13, Asayake\_13, MacKat\_13, Padfoot\_13, Topper\_13, ActinUp\_13, Padpat\_13, JAWS\_13, Blizzard\_13, Adonis\_13, BEEST\_13, HedwigODU\_13, Homura\_13, ShiaSurprise\_13, Sulley\_13, Atiba\_13, TruffulaTree\_13, Dalmuri\_13, Jeckyll\_13, Apocalypse\_13, Veliki\_13
- Track 85 : CrimD\_13, TreyKay\_13, Prithvi\_13, Megsy\_13, LindNT\_13, TaiwanKao\_13
- Track 86 : SamuelLPlaqson\_13, Bella96\_13, Urkel\_13, TiniBug\_13, DrHayes\_13
- Track 87 : LastHope\_13, TingHuaYa\_13
- Track 88 : Stinson\_13, Murucutumbu\_13, LaterM\_13
- Track 89 : Amelie\_9, Enkosi\_9, SgtBeansprout\_9, Teejan\_9, Nutello\_9, Nikao\_9, Torres\_9, Mdavu\_9, LilPharaoh\_9, Binglebops\_9
- Track 90 : Validus\_13
- Track 91 : Nibb\_12
- Track 92 : KiSi\_12, LeMond\_12
- Track 93 : CallaLilly\_13, Geraldini\_13, Beezoo\_13
- Track 94 : MarkPhew\_12
- Track 95 : Illumine\_13, Dole\_13
- Track 96 : Peanam\_13, Shaobing\_13, Niklas\_13
- Track 97 : Yunkel11\_13, Efra2\_13, Guanica15\_13
- Track 98 : Boiiii\_13, BarrelRoll\_13
- Track 99 : Zabiza\_13
- Track 100 : Dartin\_13, McMater\_13, Richo\_13
- Track 101 : Oscar\_12, Scarlett\_12
- Track 102 : Spock\_13
- Track 103 : Devera\_13
- Track 104 : Ageofdapage\_13
- Track 105 : Anaya\_14
- Track 106 : Curiosium\_14
- Track 107 : Chavito\_13
- Track 108 : Bern\_14
- Track 109 : Chris\_12

- Track 110 : Doughnut\_9, BoostSeason\_9, Mufasa\_9
- Track 111 : DismalFunk\_9, Strobilo\_9, Marcoliusprime\_9, DismalStressor\_9
- Track 112 : ZoeJ\_9
- Track 113 : Findley\_9, Milly\_9
- Track 114 : TM4\_9
- Track 115 : Lea83\_13, Pixie\_12, ShedlockHolmes\_12, TBond007\_12
- Track 116 : Keshu\_12
- Track 117 : Pharb\_12
- Track 118 : MacnCheese\_13
- Track 119 : Hurricane\_12
- Track 120 : TripleTrouble\_11
- Track 121 : Slarp\_14, OmniCritical\_14, Lebo14\_14, Fionnbharth\_14, Wintermute\_14, Mitti\_14, Cheetobro\_14, Chancellor\_14, SamScheppers\_12, Taquito\_12
- Track 122 : Y2\_14, Y10\_14, JF1\_14
- Track 123 : MissDaisy\_14, Reptar3000\_14, Patt\_14, Bobquesha\_14
- Track 124 : Kraw\_14, Malthus\_14
- Track 125 : Juliette\_14, Eponine\_14, Ruthiejr\_13
- Track 126 : Omnicron\_11
- Track 127 : AlleyCat\_11
- Track 128 : SoSeph\_11, Heftyboy\_11, Guillsminger\_11, Leston\_11, Paola\_11, Gengar\_11
- Track 129 : Edugator\_10, Neighly\_11, Psycho\_11, Dadosky\_11, Larva\_11
- Track 130 : Miryou\_11, Thyatira\_11, Feyre\_11, OkiRoe\_11, Waterfoul\_11
- Track 131 : Rando14\_11
- Track 132 : ViviJ\_10, Collard\_11, Agent47\_11, Kratio\_10, InvictusManeo\_11
- Track 133 : Amgine\_11
- Track 134 : Amohnition\_12, Hammy\_12, DARTH\_P\_12
- Track 135 : Ekdilam\_10
- Track 136 : November\_11
- Track 137 : Ellie\_10, Applecrisp\_11
- Track 138 : Syra333\_12
- Track 139 : Cain\_12, Shadow1\_11, Sunflower1121\_11, Phrank\_12, Bryler\_12
- Track 140 : TClif\_12
- Track 141 : Krueger\_12
- Track 142 : PhelpsODU\_12, Unicorn\_12
- Track 143 : Marshawn\_14
- Track 144 : Fefferhead\_12
- Track 145 : Tierra\_12
- Track 146 : Yuna\_13
- Track 147 : Ximenita\_13
- Track 148 : SirPhilip\_12
- Track 149 : Aminay\_11
- Track 150 : Boilgate\_10
- Track 151 : DS6A\_11

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

The start number called the most often in the published annotations is 8, it was called in 417 of the 442 non-draft genes in the pham.



Genes that call this "Most Annotated" start:

- Acosta\_7, ActinUp\_13, Adephegia\_13, Adonis\_13, Agent47\_11, Agente005\_7, Ageofdapage\_13, Alakazam\_9, AlexAdler\_6, Alexphander\_7, AlishaPH\_13, AlleyCat\_11, Aloeri\_7, Alyxandracam\_6, Amelie\_9, Amgine\_11, Aminay\_11, Amohntion\_12, Anaya\_14, Andromedas\_6, Angelica\_13, Anilorac\_6, Antoinette\_6, Apocalypse\_13, Applecrisp\_11, AranulaLuti\_6, Asayake\_13, Asta\_6, Atiba\_13, Aubergine\_6, Awesomesauce\_7, AxiPup\_6, BEEST\_13, BGlluviae\_13, BaghaKamala\_13, Baines\_6, Balsa\_6, Bandik\_6, BaronJohn\_8, BarrelRoll\_13, Beakin\_7, BeautPeep30\_6, BeeBee8\_7, Beezoo\_13, Bella96\_13, Belladonna\_13, Benjalauen\_6, Bern\_14, BigPhil\_7, BigRedClifford\_6, Biglebops\_9, Blage\_6, Blizzard\_13, Bobi\_7, Bobquesha\_14, Boiiii\_13, Boilgate\_10, BonesMcCoy\_6, Boomer\_7, BoostSeason\_9, BouleyBill\_6, Brookers\_7, Brushbloom\_8, Bryler\_12, Bustleton\_6, BuzzLyseyear\_7, Byron23\_6, CREW\_13, Cain\_12, CallaLilly\_13, Capricorn\_13, CaptainRex\_8, CarisSwetlik\_8, Carostasia\_6, CaseJules\_13, Casey\_6, Cerasum\_7, Chako\_6, Chancellor\_14, Chavito\_13, Cheeto1\_7, CheetoDust\_13, Cheetobro\_14, Chepli\_8, ChickenDinner\_7, ChickenKing\_6, ChikPic\_6, Chris\_12, Christoph\_6, Clancy\_6, Clipper\_14, Clock\_8, Coco12\_7, ColaCorta\_6, Collard\_11, Convict\_6, Cornucopia\_7, CrimD\_13, Curiosium\_14, DS6A\_11, DaWorst\_7, Dadosky\_11, Dalmuri\_13, DarthP\_12, Dartin\_13, Dave\_6, Deby\_13, Delphidian\_6, Den3\_6, Devera\_13, DirtMcgirt\_7, DismalFunk\_9, DismalStressor\_9, DocMcStuffins\_7, Dole\_13, DosHalletts\_7, Dothraki\_6, Doughnut\_9, DrHayes\_13, Drago\_7, Duocatuli\_6, Durfee\_13, Edugator\_10, Efra2\_13, Ekdilam\_10, Eleri\_6, Ellie\_10, Emerson\_13, Emmaloid\_8, Enby\_7, Endor\_7, Enkosi\_9, Eponine\_14, Espinosa\_6, Etna\_6, Exploradora\_6, FarmerDoug\_6, Fefferhead\_12, Feyre\_11, Figueroism\_6, Findley\_9, Finny\_6, Fionnbharth\_14, Flathead\_7, Frankie\_7, Fryberger\_39, Fulton\_8, GaeGeo\_7, Ganymede\_13, GardenB\_6, Gargoyles\_6, Gengar\_11, Geraldini\_13, Gershwin\_6, Girafales\_7, Glamour\_5, Golden\_6, GreenIvy\_8, Greys\_6, Guanica15\_13, Gubbabump\_6, Guetzie\_6, Guey18\_44, Guillsminger\_11, HairyMan\_7, Hamlet\_6, Hammy\_12, HanSolo\_6, HankSprout\_6, Hasitha\_8, HedwigODU\_13, Heftyboy\_11, Hegedechwinu\_7, HerculesXL\_9, Homura\_13, HungryHenry\_6, Hurricane\_12, Hyperbowlee\_13, Illumine\_13, Ilzat\_6, Inky\_13, Inventa\_6, InvictusManeo\_11, Ioannes\_6, Ixel\_8, JAWS\_13, JF1\_14, JalFarm20\_7, Janus167\_6, Jarvi\_13, JasonD\_8, JasperRussell\_6, Jayhawk\_13, Jeckyll\_13, Jemerald\_8, Jenos\_8, Jerbirus\_6, Jingles\_6, Job42\_7, Joy99\_13, Juanyo\_6, Juice456\_7, Juicer\_8, Juliette\_14, Kale\_6, KannH\_6, KatChan\_8, Kauala\_6, Keelan\_37, Keshu\_12, KiSi\_12, Kimberlium\_7, KingJulien\_6, Kingsley\_7, Knox\_6, Koji\_6, Kratio\_10, Kraw\_14, Krueger\_12, Kurt1\_6, Larva\_11, LastHope\_13, LaterM\_13, LeMond\_12, Lea83\_13, Leafus\_6, Lebo14\_14, Leozinho\_7, Leston\_11, Librie\_8, LilPharaoh\_9, LilTerminator\_8, LindNT\_13, LittleShirley\_7, Llorens\_13, Lorde\_7, Lovelyunicorn\_6, Lucky3\_6, Ludgate\_6, Luna18\_8, Lunahalos\_13, MCubed\_6, MacKat\_13, MacnCheese\_13, Madiba\_7, MaeLinda\_6, Malthus\_14, ManRay\_6, Mandalorian\_6, Marcoliusprime\_9, MarkPhew\_12, Marker\_7, Marshawn\_14, Martin\_7, McGalleon\_7, McMater\_13, Mdavu\_9, MeaningOfLife\_13, Megsy\_13, Mercedes\_7, MillyPhilly\_6, Milly\_9, Miryou\_11, Misha28\_7, MissDaisy\_14, Mitti\_14, MonChoix\_6, Morigan\_8, Mova\_7, Mozy\_7, MrWorldwide\_6, Mufasa\_9, MulchExplorer\_8, Murucutumbu\_13, Mynx\_13, Nagem\_6, Nebulous\_8, Neferthena\_8, Neighly\_11, Nibb\_12, NickSell\_6, Nikao\_9, Niklas\_13, November\_11, Nucci\_6, Nutello\_9, Oats\_6, OkiRoe\_11, Oksu\_7, OldNelly\_6, OmniCritical\_14, Omnicron\_11, Oscar\_12, OwlsT2W\_7, Oxtober96\_6, PSirce\_5, Padfoot\_13, Padpat\_13, Pajaza\_6, Paola\_11, Papafritta\_6, ParleG\_6, Patt\_14, Peanam\_13, Peel\_13, Peep\_6, Peppino\_6, Phanita\_5, Pharb\_12, PhelpsODU\_12, Pherbot\_6, Pherferi\_6, Phiderman\_6, Phireproof\_6, Phrank\_12,

PhredFlintston\_6, Phriends\_6, Piatt\_13, Pikmin\_6, Piper2020\_7, Pixie\_12, Plumbus\_7, Pocket\_6, Pokerus\_12, Pollywog\_7, PrincePhergus\_6, Prithvi\_13, Psycho\_11, PuppyEggo\_6, QuadZero\_8, Quartz\_6, Quico\_7, QuincyRose\_12, Raccoon\_6, Ramen\_13, Ramsey\_7, Rando14\_11, Rapheph\_6, Raptor\_6, Rapunzel97\_13, Redfield\_6, RenegadeRaider\_6, Renzie\_6, Reptar3000\_14, Rialto\_7, Richo\_13, Riyhil\_6, Robinson\_6, RockyHorror\_7, Rog141\_6, Ronaldo\_42, RosieMae\_6, Rosmarinus\_13, Ruthiejr\_13, SJay\_6, SamScheppers\_12, SamuelLPlaqson\_13, Sansa\_5, Saratos\_6, Sarma624\_7, Scarlett\_12, Schimmels22\_9, Schnapsidee\_6, Schubert\_7, Scissor2024\_9, Seagreen\_7, Sedgewig\_6, SgtBeansprout\_9, Shadow1\_11, ShaiHulud\_6, Shamu\_6, Shaobing\_13, ShedlockHolmes\_12, Shee\_6, ShiaSurprise\_13, SimranZ1\_7, Sinatra\_6, SirPhilip\_12, SirVictor\_6, Slarp\_14, Slim\_8, Slimphazie\_13, SoSeph\_11, SoilGremlin\_6, Spikelee\_7, Spock\_13, Squirty\_7, Stanktossa\_6, Stap\_7, Starceвич\_7, StingRay\_6, Stinson\_13, StirfryIV\_6, Stormbreaker8\_6, Strathdee\_6, Strobilo\_9, Sulley\_13, Sunflower1121\_11, Superfresh\_6, Symere\_6, Syra333\_12, TBond007\_12, TClif\_12, TM4\_9, Tachez\_13, TaiwanKao\_13, Taquito\_12, TatarkaPM\_6, Tchotchke\_7, Teagan\_6, TeddyBear\_6, Teejan\_9, Tenda\_6, Theresita\_7, Thompsone\_6, Thorongil\_6, Thyatira\_11, Tierra\_12, TinSulphur\_6, TingHuaYa\_13, TiniBug\_13, Tinyman4\_9, Tiri\_13, TootsiePop\_7, Tootsieroll\_7, Topper\_13, Torres\_9, Totinger\_7, TreyKay\_13, TripleTrouble\_11, TruffulaTree\_13, Twitch\_13, TwoBits\_6, UncleRicky\_7, Unicorn\_12, Urkel\_13, Validus\_13, Velene\_6, Veliki\_13, Velveteen\_7, Vispistious\_6, ViviJ\_10, Volt\_41, Wardwill\_9, Waterfoul\_11, WestPM\_8, WildNOut\_6, WilliamStrong\_6, Wintermute\_14, Winzigespinne\_6, Ximenita\_13, Y10\_14, Y2\_14, YoureAdopted\_12, Yuna\_13, Yunkel11\_13, YuuY\_6, Zabiza\_13, Zada\_6, Zavala\_13, Zayuliv\_8, Zenitsu\_6, Zepp\_9, Ziko\_42, ZoeJ\_9,

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

- 

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

- 8UZL\_9, Bonino\_6, Bridgette\_6, Calix\_6, Chamuel\_6, ChuckDuck\_6, Constance\_6, Eileen\_6, Erla\_6, Etta\_6, FF47\_09, Farewell\_6, FosterFrank\_6, Garey24\_6, Gelo\_6, GlobiWarming\_6, HotPotato\_6, JacoRen57\_6, JeriBeth\_6, Judy\_6, Karkharias\_6, KayMoney\_6, Klimt\_6, Maco6\_7, Muddy\_9, Nattles\_6, NoShow\_7, Peas\_6, PeggyLeg03\_6, Pucara\_6, SonOfLevi\_6, Sparky\_6,

### Summary by start number:

Start 3:

- Found in 13 of 497 ( 2.6% ) of genes in pham
- Manual Annotations of this start: 9 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bridgette\_6 (FA), ChuckDuck\_6 (FA), Constance\_6 (FA), Eileen\_6 (FA), FosterFrank\_6 (FA), GlobiWarming\_6 (FA), HotPotato\_6 (FA), Judy\_6 (FA), Karkharias\_6 (FA), KayMoney\_6 (FA), Peas\_6 (FA), PeggyLeg03\_6 (FA), Pucara\_6 (FA),

Start 5:

- Found in 6 of 497 ( 1.2% ) of genes in pham
- Manual Annotations of this start: 4 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL\_9 (AB), FF47\_09 (AB), JacoRen57\_6 (AB), Maco6\_7 (AB), Muddy\_9 (AB), NoShow\_7 (AB),

Start 6:

- Found in 2 of 497 ( 0.4% ) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell\_6 (AF), Sparky\_6 (AF),

Start 7:

- Found in 11 of 497 ( 2.2% ) of genes in pham
- Manual Annotations of this start: 10 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bonino\_6 (EA1), Calix\_6 (EA1), Chamuel\_6 (EA1), Erla\_6 (EA1), Etta\_6 (EA1), Garey24\_6 (EA1), Gelo\_6 (EA1), JeriBeth\_6 (EA1), Klimt\_6 (EA1), Nattles\_6 (EA1), SonOfLevi\_6 (EA1),

Start 8:

- Found in 465 of 497 ( 93.6% ) of genes in pham
- Manual Annotations of this start: 417 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acosta\_7 (EA1), ActinUp\_13 (K1), Adephegia\_13 (K1), Adonis\_13 (K1), Agent47\_11 (K5), Agente005\_7 (EA1), Ageofdapage\_13 (K1), Alakazam\_9 (EA5), AlexAdler\_6 (EA1), Alexphander\_7 (F1), AlishaPH\_13 (K1), AlleyCat\_11 (K5), Aloeri\_7 (F1), Alyxandracam\_6 (EA1), Amelie\_9 (K1), Amgine\_11 (K6), Aminay\_11 (K7), Amohnition\_12 (K6), Anaya\_14 (K1), Andromedas\_6 (EA2), Angelica\_13 (K1), Anilorac\_6 (EA1), Antoinette\_6 (EA1), Apocalypse\_13 (K1), Applecrisp\_11 (K6), AranulaLuti\_6 (EA1), Asayake\_13 (K1), Asta\_6 (EA1), Atiba\_13 (K1), Aubergine\_6 (EA1), Awesomesauce\_7 (F1), AxiPup\_6 (EA1), BEEST\_13 (K1), BGlluviae\_13 (K1), BaghaKamala\_13 (K1), Baines\_6 (EA1), Balsa\_6 (EA1), Bandik\_6 (EA1), BaronJohn\_8 (EA5), BarrelRoll\_13 (K1), Beakin\_7 (F1), BeautPeep30\_6 (EA1), BeeBee8\_7 (EA1), Beezoo\_13 (K1), Bella96\_13 (K1), Belladonna\_13 (K1), Benjalauren\_6 (EA1), Bern\_14 (K1), BigPhil\_7 (F1), BigRedClifford\_6 (EA1), Binglebops\_9 (K1), Blage\_6 (EA1), Blizzard\_13 (K1), Bobi\_7 (F1), Bobquesha\_14 (K4), Boiiii\_13 (K1), Boilgate\_10 (K8), BonesMcCoy\_6 (EA1), Boomer\_7 (F1), BoostSeason\_9 (K2), BouleyBill\_6 (EA4), Brookers\_7 (F1), Brushbloom\_8 (F1), Bryler\_12 (K6), Bustleton\_6 (EA4), BuzzLyseyear\_7 (F1), Byron23\_6 (EA1), CREW\_13 (K1), Cain\_12 (K6), CallaLilly\_13 (K1), Capricorn\_13 (K1), CaptainRex\_8 (EA5), CarisSwetlik\_8 (EA1), Carostasia\_6 (EA10), CaseJules\_13 (K1), Casey\_6 (EA3), Cerasum\_7 (F1), Chako\_6 (EA1), Chancellor\_14 (K4), Chavito\_13 (K1), Cheeto1\_7 (EA9), CheetoDust\_13 (K1), Cheetobro\_14 (K4), Chepli\_8 (EA6), ChickenDinner\_7 (F1), ChickenKing\_6 (EA9), ChikPic\_6 (EA2), Chris\_12 (K1), Christoph\_6 (EA1), Clancy\_6 (EA1), Clipper\_14 (K1), Clock\_8 (EA5), Coco12\_7 (F1), ColaCorta\_6 (EA2), Collard\_11 (K5), Convict\_6 (EA1), Cornucopia\_7 (F1), CrimD\_13 (K1), Curiosium\_14 (K1), DS6A\_11 (singleton), DaWorst\_7 (F1), Dadosky\_11 (K5), Dalmuri\_13 (K1), DARTH\_12 (K6), Dartin\_13 (K1), Dave\_6 (EA1), Deby\_13 (K1), Delphidian\_6 (EA1), Den3\_6 (EA1), Devera\_13 (K1), DirtMcGirt\_7 (F1), DismalFunk\_9 (K2), DismalStressor\_9 (K2), DocMcStuffins\_7 (F1), Dole\_13 (K1), DosHalletts\_7 (F1), Dothraki\_6 (EA1), Doughnut\_9 (K2), DrHayes\_13 (K1), Drago\_7 (F1), Duocatuli\_6 (EA1), Durfee\_13 (K1), Edugator\_10 (K5), Efra2\_13 (K1), Ekdilam\_10 (K6), Eleri\_6 (EA2), Ellie\_10 (K6), Emerson\_13 (K1), Emmaloid\_8 (F1), Enby\_7 (F1), Endor\_7 (EA1), Enkosi\_9 (K1), Eponine\_14 (K4), Espinosa\_6 (EA1), Etna\_6 (EA1), Exploradora\_6 (EA1), FarmerDoug\_6 (EA1), Fefferhead\_12 (K6), Feyre\_11 (K5), Figueroism\_6 (EA1), Findley\_9 (K2), Finny\_6 (EA2), Fionnbharth\_14 (K4), Flathead\_7 (F1), Frankie\_7 (F1), Fryberger\_39 (DP), Fulton\_8 (EA5),

GaeCeo\_7 (EA9), Ganymede\_13 (K1), GardenB\_6 (EA1), Gargoyle\_6 (EA1), Gengar\_11 (K5), Geraldini\_13 (K1), Gershwin\_6 (EA1), Girafales\_7 (F1), Glamour\_5 (EA2), Golden\_6 (EA4), Greenlvy\_8 (EA5), Greys\_6 (EA1), Guanica15\_13 (K1), Gubbabump\_6 (EA1), Guetzie\_6 (EA4), Guey18\_44 (DP), Guillsminger\_11 (K5), HairyMan\_7 (EA10), Hamlet\_6 (EA1), Hammy\_12 (K6), HanSolo\_6 (EA1), HankSprout\_6 (EA1), Hasitha\_8 (EA5), HedwigODU\_13 (K1), Heftyboy\_11 (K5), Hegedechwinu\_7 (F1), HerculesXL\_9 (EA11), Homura\_13 (K1), HungryHenry\_6 (EA1), Hurricane\_12 (K3), Hyperbowlee\_13 (K1), Illumine\_13 (K1), Ilzat\_6 (EA1), Inky\_13 (K1), Inventa\_6 (EA1), InvictusManeo\_11 (K5), Ioannes\_6 (EA1), Ixel\_8 (EA11), JAWS\_13 (K1), JF1\_14 (K4), JalFarm20\_7 (F1), Janus167\_6 (EA1), Jarvi\_13 (K1), JasonD\_8 (EA1), JasperRussell\_6 (EA1), Jayhawk\_13 (K1), Jeckyll\_13 (K1), Jemerald\_8 (EA6), Jenos\_8 (EA1), Jerbirus\_6 (EA1), Jingles\_6 (EA4), Job42\_7 (F1), Joy99\_13 (K1), Juanyo\_6 (EA10), Juice456\_7 (F1), Juicer\_8 (EA6), Juliette\_14 (K4), Kale\_6 (EA1), KannH\_6 (EA1), KatChan\_8 (EA6), Kauala\_6 (EA4), Keelan\_37 (DP), Keshu\_12 (K3), KiSi\_12 (K1), Kimberlium\_7 (F1), KingJulien\_6 (EA1), Kingsley\_7 (F1), Knox\_6 (EA1), Koji\_6 (EA4), Kratio\_10 (K5), Kraw\_14 (K4), Krueger\_12 (K6), Kurt1\_6 (EA1), Larva\_11 (K5), LastHope\_13 (K1), LaterM\_13 (K1), LeMond\_12 (K1), Lea83\_13 (K3), Leafus\_6 (EA1), Lebo14\_14 (K4), Leozinho\_7 (F1), Leston\_11 (K5), Librie\_8 (EA5), LilPharaoh\_9 (K1), LilTerminator\_8 (EA5), LindNT\_13 (K1), LittleShirley\_7 (F1), Llorens\_13 (K1), Lorde\_7 (F1), Lovelyunicorn\_6 (EA1), Lucky3\_6 (EA4), Ludgate\_6 (EA1), Luna18\_8 (EA6), Lunahalos\_13 (K1), MCubed\_6 (EA2), MacKat\_13 (K1), MacnCheese\_13 (K3), Madiba\_7 (F1), MaeLinda\_6 (EA1), Malthus\_14 (K4), ManRay\_6 (EA1), Mandalorian\_6 (EA10), Marcoliusprime\_9 (K2), MarkPheW\_12 (K1), Marker\_7 (F1), Marshawn\_14 (K6), Martin\_7 (EA1), McGalleon\_7 (EA1), McMater\_13 (K1), Mdavu\_9 (K1), MeaningOfLife\_13 (K1), Megsy\_13 (K1), Mercedes\_7 (EA), MillyPhilly\_6 (EA1), Milly\_9 (K2), Miryou\_11 (K5), Misha28\_7 (F1), MissDaisy\_14 (K4), Mitti\_14 (K4), MonChoix\_6 (EA1), Morrigan\_8 (EA6), Mova\_7 (F1), Mozy\_7 (F1), MrWorldwide\_6 (EA1), Mufasa\_9 (K2), MulchExplorer\_8 (F1), Murucutumbu\_13 (K1), Mynx\_13 (K1), Nagem\_6 (EA1), Nebulous\_8 (EA5), Neferthena\_8 (EA5), Neighly\_11 (K3), Nibb\_12 (K1), NickSell\_6 (EA1), Nikao\_9 (K1), Niklas\_13 (K1), November\_11 (K6), Nucci\_6 (EA10), Nutello\_9 (K1), Oats\_6 (EA1), OkiRoe\_11 (K5), Oksu\_7 (F1), OldNelly\_6 (EA1), OmniCritical\_14 (K4), Omnicron\_11 (K5), Oscar\_12 (K1), OwlsT2W\_7 (F1), Oxtober96\_6 (EA1), PSirce\_5 (EA2), Padfoot\_13 (K1), Padpat\_13 (K1), Pajaza\_6 (EA3), Paola\_11 (K5), Papafritta\_6 (EA1), ParleG\_6 (EA1), Patt\_14 (K4), Peanam\_13 (K1), Peel\_13 (K1), Peep\_6 (EA1), Peppino\_6 (EA1), Phanita\_5 (EA2), Pharb\_12 (K3), PhelpsODU\_12 (K6), Pherbot\_6 (EA4), Pherferi\_6 (EA1), Phiderman\_6 (EA1), Phireproof\_6 (EA1), Phrank\_12 (K6), PhredFlintston\_6 (EA1), Phriends\_6 (EA1), Piatt\_13 (K1), Pikmin\_6 (EA3), Piper2020\_7 (F1), Pixie\_12 (K3), Plumbus\_7 (F1), Pocket\_6 (EA1), Pokerus\_12 (K1), Pollywog\_7 (F1), PrincePhergus\_6 (EA4), Prithvi\_13 (K1), Psycho\_11 (K5), PuppyEggo\_6 (EA1), QuadZero\_8 (EA5), Quartz\_6 (EA10), Quico\_7 (F1), QuincyRose\_12 (K1), Raccoon\_6 (EA1), Ramen\_13 (K1), Ramsey\_7 (F1), Rando14\_11 (K5), Rappheph\_6 (EA1), Raptor\_6 (EA1), Rapunzel97\_13 (K1), Redfield\_6 (EA1), RenegadeRaider\_6 (EA4), Renzie\_6 (EA1), Reptar3000\_14 (K4), Rialto\_7 (F1), Richo\_13 (K1), Riyhil\_6 (EA1), Robinson\_6 (EA1), RockyHorror\_7 (F1), Rog141\_6 (EA1), Ronaldo\_42 (DP), RosieMae\_6 (EA1), Rosmarinus\_13 (K1), Ruthiejr\_13 (K4), SJay\_6 (EA1), SamScheppers\_12 (K4), SamuelLPlaQson\_13 (K1), Sansa\_5 (EA2), Saratos\_6 (EA2), Sarma624\_7 (F1), Scarlett\_12 (K1), Schimmels22\_9 (EA11), Schnapsidee\_6 (EA1), Schubert\_7 (EA8), Scissor2024\_9 (EA11), Seagreen\_7 (F1), Sedgewig\_6 (EA1), SgtBeansprout\_9 (K1), Shadow1\_11 (K6), ShaiHulud\_6 (EA1), Shamu\_6 (EA2), Shaobing\_13 (K1), ShedlockHolmes\_12 (K3), Shee\_6 (EA1), ShiaSurprise\_13 (K1), SimranZ1\_7 (F1), Sinatra\_6 (EA4), SirPhilip\_12 (K6), SirVictor\_6 (EA4), Slarp\_14 (K4), Slim\_8 (F1),

Slimphazie\_13 (K1), SoSeph\_11 (K5), SoilGremlin\_6 (EA1), Spikelee\_7 (F1), Spock\_13 (K1), Squirty\_7 (F3), Stanktossa\_6 (EA1), Stap\_7 (F1), Starcevich\_7 (F1), StingRay\_6 (EA1), Stinson\_13 (K1), StirfryIV\_6 (EA1), Stormbreaker8\_6 (EA1), Strathdee\_6 (EA1), Strobilo\_9 (K2), Sulley\_13 (K1), Sunflower1121\_11 (K6), Superfresh\_6 (EA1), Symere\_6 (EA1), Syra333\_12 (K6), TBond007\_12 (K3), TClif\_12 (K6), TM4\_9 (K2), Tachez\_13 (K1), TaiwanKao\_13 (K1), Taquito\_12 (K4), TatarkaPM\_6 (EA1), Tchotchke\_7 (F1), Teagan\_6 (EA1), TeddyBear\_6 (EA1), Teejan\_9 (K1), Tenda\_6 (EA1), Theresita\_7 (EA7), Thompsone\_6 (EA1), Thorongil\_6 (EA1), Thyatira\_11 (K5), Tierra\_12 (K6), TinSulphur\_6 (EA1), TingHuaYa\_13 (K1), TiniBug\_13 (K1), Tinyman4\_9 (EA11), Tiri\_13 (K1), TootsiePop\_7 (F1), Tootsieroll\_7 (F1), Topper\_13 (K1), Torres\_9 (K1), Totinger\_7 (F1), TreyKay\_13 (K1), TribbleTrouble\_11 (K3), TruffulaTree\_13 (K1), Twitch\_13 (K1), TwoBits\_6 (EA5), UncleRicky\_7 (F1), Unicorn\_12 (K6), Urkel\_13 (K1), Validus\_13 (K1), Velene\_6 (EA1), Veliki\_13 (K1), Velveteen\_7 (F1), Vispistious\_6 (EA1), ViviJ\_10 (K5), Volt\_41 (DP), Wardwill\_9 (EA5), Waterfoul\_11 (K5), WestPM\_8 (EA11), WildNOOut\_6 (EA1), WilliamStrong\_6 (EA6), Wintermute\_14 (K4), Winzigespinne\_6 (EA1), Ximenita\_13 (K6), Y10\_14 (K4), Y2\_14 (K4), YoureAdopted\_12 (K1), Yuna\_13 (K6), Yunkel11\_13 (K1), YuuY\_6 (EA10), Zabiza\_13 (K1), Zada\_6 (EA1), Zavala\_13 (K1), Zayuliv\_8 (EA5), Zenitsu\_6 (EA2), Zepp\_9 (EA5), Ziko\_42 (DP), ZoeJ\_9 (K2),

### Summary by clusters:

There are 27 clusters represented in this pham: singleton, K3, K2, K1, K7, K6, K5, K4, K8, DP, AB, AF, EA, EA9, EA8, EA1, EA3, EA2, EA5, EA4, EA7, EA6, F1, F3, EA11, EA10, FA,

Info for manual annotations of cluster AB:

- Start number 5 was manually annotated 4 times for cluster AB.

Info for manual annotations of cluster AF:

- Start number 6 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster DP:

- Start number 8 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster EA:

- Start number 8 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:

- Start number 7 was manually annotated 10 times for cluster EA1.
- Start number 8 was manually annotated 110 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 8 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 8 was manually annotated 5 times for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 8 was manually annotated 11 times for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 8 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 8 was manually annotated 11 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 8 was manually annotated 12 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 8 was manually annotated 7 times for cluster EA6.

Info for manual annotations of cluster EA7:

- Start number 8 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:

- Start number 8 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 8 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 52 times for cluster F1.

Info for manual annotations of cluster F3:

- Start number 8 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster FA:

- Start number 3 was manually annotated 9 times for cluster FA.

Info for manual annotations of cluster K1:

- Start number 8 was manually annotated 103 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 8 was manually annotated 10 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 8 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 8 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 8 was manually annotated 22 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 8 was manually annotated 22 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 8 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 8 was manually annotated 1 time for cluster K8.

**Gene Information:**

Gene: 8UZL\_9 Start: 6448, Stop: 7437, Start Num: 5

Candidate Starts for 8UZL\_9:

(Start: 5 @6448 has 4 MA's), (12, 6511), (13, 6523), (19, 6574), (20, 6580), (27, 6637), (32, 6694), (36, 6721), (50, 6811), (67, 6928), (68, 6934), (82, 7018), (97, 7138), (106, 7189), (113, 7276), (122, 7339),

Gene: Acosta\_7 Start: 4827, Stop: 5819, Start Num: 8

Candidate Starts for Acosta\_7:

(Start: 8 @4827 has 417 MA's), (20, 4944), (27, 5001), (29, 5034), (34, 5088), (37, 5106), (75, 5376), (103, 5556), (106, 5577), (108, 5598), (114, 5670), (118, 5697),

Gene: ActinUp\_13 Start: 7931, Stop: 8869, Start Num: 8

Candidate Starts for ActinUp\_13:

(Start: 8 @7931 has 417 MA's), (17, 8021), (20, 8048), (35, 8195), (37, 8207), (38, 8219), (52, 8306), (62, 8390), (69, 8420), (100, 8618), (107, 8657), (114, 8741), (115, 8744), (119, 8777), (123, 8801), (132, 8843),

Gene: Adephagia\_13 Start: 7931, Stop: 8869, Start Num: 8

Candidate Starts for Adephagia\_13:

(Start: 8 @7931 has 417 MA's), (17, 8021), (20, 8048), (35, 8195), (37, 8207), (38, 8219), (52, 8306), (62, 8390), (69, 8420), (100, 8618), (107, 8657), (114, 8741), (115, 8744), (119, 8777), (123, 8801), (132, 8843),

Gene: Adonis\_13 Start: 7942, Stop: 8874, Start Num: 8

Candidate Starts for Adonis\_13:

(Start: 8 @7942 has 417 MA's), (17, 8032), (20, 8059), (35, 8206), (37, 8218), (38, 8230), (52, 8317), (62, 8401), (69, 8431), (100, 8629), (107, 8668), (114, 8752), (115, 8755), (119, 8788), (123, 8812), (132, 8854),

Gene: Agent47\_11 Start: 8100, Stop: 9020, Start Num: 8

Candidate Starts for Agent47\_11:

(Start: 8 @8100 has 417 MA's), (20, 8217), (24, 8244), (29, 8304), (31, 8340), (33, 8346), (37, 8376), (41, 8412), (52, 8475), (54, 8505), (114, 8910), (115, 8913), (119, 8946), (123, 8970),

Gene: Agente005\_7 Start: 4870, Stop: 5862, Start Num: 8

Candidate Starts for Agente005\_7:

(Start: 8 @4870 has 417 MA's), (20, 4987), (27, 5044), (34, 5131), (49, 5230), (72, 5398), (75, 5419), (76, 5425), (106, 5620), (108, 5641), (114, 5713), (115, 5716), (118, 5740),

Gene: Ageofdapage\_13 Start: 7870, Stop: 8805, Start Num: 8

Candidate Starts for Ageofdapage\_13:

(Start: 8 @7870 has 417 MA's), (17, 7960), (20, 7987), (30, 8092), (35, 8134), (37, 8146), (38, 8158), (52, 8245), (69, 8359), (100, 8557), (107, 8596), (114, 8680), (115, 8683), (119, 8716), (123, 8740), (132, 8782),

Gene: Alakazam\_9 Start: 5969, Stop: 6946, Start Num: 8

Candidate Starts for Alakazam\_9:

(Start: 8 @5969 has 417 MA's), (14, 6032), (19, 6080), (20, 6086), (23, 6107), (30, 6194), (47, 6308), (51, 6344), (60, 6425), (72, 6497), (78, 6530), (84, 6578), (99, 6683), (103, 6698), (105, 6716), (114, 6800), (115, 6803), (118, 6827),

Gene: AlexAdler\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for AlexAdler\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (100, 5410), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Alexphander\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Alexphander\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (111, 5775), (114, 5805), (116, 5820), (119, 5841),

Gene: AlishaPH\_13 Start: 7933, Stop: 8868, Start Num: 8

Candidate Starts for AlishaPH\_13:

(Start: 8 @7933 has 417 MA's), (17, 8023), (20, 8050), (35, 8197), (37, 8209), (38, 8221), (52, 8308), (62, 8392), (69, 8422), (100, 8620), (107, 8659), (114, 8743), (115, 8746), (119, 8779), (123, 8803), (132, 8845),

Gene: AlleyCat\_11 Start: 7993, Stop: 8925, Start Num: 8

Candidate Starts for AlleyCat\_11:

(Start: 8 @7993 has 417 MA's), (20, 8110), (24, 8137), (29, 8197), (31, 8233), (33, 8239), (37, 8269), (41, 8305), (52, 8368), (54, 8398), (114, 8803), (115, 8806), (123, 8863),

Gene: Aloeri\_7 Start: 5011, Stop: 5919, Start Num: 8

Candidate Starts for Aloeri\_7:

(Start: 8 @5011 has 417 MA's), (17, 5101), (18, 5104), (20, 5128), (27, 5185), (29, 5215), (38, 5299), (51, 5383), (54, 5416), (74, 5548), (81, 5590), (103, 5707), (104, 5710), (109, 5755), (114, 5809), (116, 5824), (119, 5845),

Gene: Alyxandracam\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Alyxandracam\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Amelie\_9 Start: 7225, Stop: 8145, Start Num: 8

Candidate Starts for Amelie\_9:

(Start: 8 @7225 has 417 MA's), (20, 7342), (24, 7369), (28, 7420), (35, 7489), (37, 7501), (41, 7537), (59, 7675), (62, 7684), (69, 7714), (83, 7813), (98, 7897), (102, 7918), (105, 7939), (107, 7951), (114, 8035), (119, 8071), (128, 8122), (129, 8125),

Gene: Amgine\_11 Start: 7569, Stop: 8492, Start Num: 8

Candidate Starts for Amgine\_11:

(Start: 8 @7569 has 417 MA's), (13, 7629), (17, 7659), (20, 7686), (24, 7713), (29, 7773), (37, 7845), (38, 7857), (54, 7974), (65, 8037), (83, 8157), (105, 8283), (107, 8295), (109, 8313), (114, 8379), (115, 8382), (119, 8415), (123, 8439),

Gene: Aminay\_11 Start: 7845, Stop: 8768, Start Num: 8

Candidate Starts for Aminay\_11:

(Start: 8 @7845 has 417 MA's), (17, 7935), (20, 7962), (24, 7989), (37, 8121), (40, 8151), (41, 8157), (51, 8217), (56, 8265), (59, 8295), (78, 8397), (85, 8457), (105, 8559), (107, 8571), (109, 8589), (114, 8655), (119, 8691), (125, 8730),

Gene: Amohnition\_12 Start: 7821, Stop: 8753, Start Num: 8

Candidate Starts for Amohnition\_12:



(Start: 8 @7821 has 417 MA's), (17, 7911), (20, 7938), (24, 7965), (37, 8097), (46, 8154), (56, 8241), (59, 8271), (69, 8310), (83, 8409), (105, 8535), (107, 8547), (109, 8565), (114, 8631), (115, 8634), (123, 8691),

Gene: Anaya\_14 Start: 7935, Stop: 8870, Start Num: 8

Candidate Starts for Anaya\_14:

(Start: 8 @7935 has 417 MA's), (17, 8025), (20, 8052), (24, 8079), (35, 8199), (37, 8211), (38, 8223), (41, 8247), (52, 8310), (69, 8424), (100, 8622), (107, 8661), (109, 8679), (114, 8745), (115, 8748), (119, 8781), (121, 8790), (123, 8805), (132, 8847),

Gene: Andromedas\_6 Start: 4885, Stop: 5826, Start Num: 8

Candidate Starts for Andromedas\_6:

(Start: 8 @4885 has 417 MA's), (16, 4972), (20, 5002), (21, 5014), (23, 5023), (27, 5059), (47, 5224), (56, 5308), (72, 5407), (106, 5629), (114, 5710), (136, 5815),

Gene: Angelica\_13 Start: 7902, Stop: 8840, Start Num: 8

Candidate Starts for Angelica\_13:

(Start: 8 @7902 has 417 MA's), (17, 7992), (20, 8019), (35, 8166), (37, 8178), (38, 8190), (52, 8277), (62, 8361), (69, 8391), (100, 8589), (107, 8628), (114, 8712), (115, 8715), (119, 8748), (123, 8772), (132, 8814),

Gene: Anilorac\_6 Start: 4713, Stop: 5705, Start Num: 8

Candidate Starts for Anilorac\_6:

(Start: 8 @4713 has 417 MA's), (20, 4830), (27, 4887), (34, 4974), (49, 5073), (72, 5241), (75, 5262), (76, 5268), (106, 5463), (108, 5484), (114, 5556), (115, 5559), (118, 5583),

Gene: Antoinette\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Antoinette\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (49, 5068), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Apocalypse\_13 Start: 7909, Stop: 8844, Start Num: 8

Candidate Starts for Apocalypse\_13:

(Start: 8 @7909 has 417 MA's), (17, 7999), (20, 8026), (35, 8173), (37, 8185), (38, 8197), (52, 8284), (62, 8368), (69, 8398), (100, 8596), (107, 8635), (114, 8719), (115, 8722), (119, 8755), (123, 8779), (132, 8821),

Gene: Applecrisp\_11 Start: 7970, Stop: 8893, Start Num: 8

Candidate Starts for Applecrisp\_11:

(Start: 8 @7970 has 417 MA's), (17, 8060), (20, 8087), (24, 8114), (29, 8174), (37, 8246), (38, 8258), (46, 8303), (54, 8375), (65, 8438), (83, 8558), (105, 8684), (107, 8696), (109, 8714), (114, 8780), (115, 8783), (119, 8816), (123, 8840),

Gene: AranulaLuti\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for AranulaLuti\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Asayake\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Asayake\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844),

(132, 8886),

Gene: Asta\_6 Start: 4722, Stop: 5648, Start Num: 8

Candidate Starts for Asta\_6:

(Start: 8 @4722 has 417 MA's), (20, 4839), (23, 4860), (27, 4896), (35, 4989), (36, 4995), (37, 5001), (47, 5061), (56, 5145), (76, 5259), (95, 5385), (105, 5451), (114, 5535), (118, 5562), (132, 5637),

Gene: Atiba\_13 Start: 7897, Stop: 8832, Start Num: 8

Candidate Starts for Atiba\_13:

(Start: 8 @7897 has 417 MA's), (17, 7987), (20, 8014), (35, 8161), (37, 8173), (38, 8185), (52, 8272), (62, 8356), (69, 8386), (100, 8584), (107, 8623), (114, 8707), (115, 8710), (119, 8743), (123, 8767), (132, 8809),

Gene: Aubergine\_6 Start: 4722, Stop: 5648, Start Num: 8

Candidate Starts for Aubergine\_6:

(Start: 8 @4722 has 417 MA's), (20, 4839), (23, 4860), (27, 4896), (35, 4989), (36, 4995), (37, 5001), (47, 5061), (56, 5145), (76, 5259), (95, 5385), (105, 5451), (114, 5535), (118, 5562), (132, 5637),

Gene: Awesomesauce\_7 Start: 5010, Stop: 5918, Start Num: 8

Candidate Starts for Awesomesauce\_7:

(Start: 8 @5010 has 417 MA's), (17, 5100), (18, 5103), (20, 5127), (27, 5184), (29, 5214), (38, 5298), (54, 5415), (74, 5547), (81, 5589), (103, 5706), (104, 5709), (109, 5754), (114, 5808), (116, 5823), (119, 5844),

Gene: AxiPup\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for AxiPup\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: BEEST\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for BEEST\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: BGlluviae\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for BGlluviae\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: BaghaKamala\_13 Start: 7900, Stop: 8835, Start Num: 8

Candidate Starts for BaghaKamala\_13:

(Start: 8 @7900 has 417 MA's), (17, 7990), (20, 8017), (35, 8164), (37, 8176), (38, 8188), (52, 8275), (62, 8359), (69, 8389), (100, 8587), (107, 8626), (109, 8644), (114, 8710), (115, 8713), (119, 8746), (123, 8770), (132, 8812),

Gene: Baines\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Baines\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Balsa\_6 Start: 4714, Stop: 5694, Start Num: 8

Candidate Starts for Balsa\_6:

(Start: 8 @4714 has 417 MA's), (20, 4831), (29, 4921), (30, 4939), (34, 4975), (49, 5074), (56, 5137), (72, 5242), (75, 5263), (76, 5269), (108, 5485), (114, 5545), (118, 5572),

Gene: Bandik\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Bandik\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (49, 5068), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: BaronJohn\_8 Start: 5188, Stop: 6168, Start Num: 8

Candidate Starts for BaronJohn\_8:

(Start: 8 @5188 has 417 MA's), (19, 5299), (20, 5305), (23, 5326), (27, 5362), (36, 5461), (47, 5527), (60, 5644), (71, 5713), (72, 5716), (99, 5902), (103, 5917), (105, 5935), (114, 6019), (115, 6022), (137, 6163),

Gene: BarrelRoll\_13 Start: 7926, Stop: 8861, Start Num: 8

Candidate Starts for BarrelRoll\_13:

(Start: 8 @7926 has 417 MA's), (17, 8016), (20, 8043), (35, 8190), (37, 8202), (38, 8214), (52, 8301), (62, 8385), (69, 8415), (100, 8613), (107, 8652), (114, 8736), (115, 8739), (119, 8772), (123, 8796), (132, 8838),

Gene: Beakin\_7 Start: 5010, Stop: 5918, Start Num: 8

Candidate Starts for Beakin\_7:

(Start: 8 @5010 has 417 MA's), (17, 5100), (18, 5103), (20, 5127), (27, 5184), (29, 5214), (38, 5298), (54, 5415), (74, 5547), (81, 5589), (103, 5706), (104, 5709), (109, 5754), (114, 5808), (116, 5823), (119, 5844),

Gene: BeautPeep30\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for BeautPeep30\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: BeeBee8\_7 Start: 4880, Stop: 5872, Start Num: 8

Candidate Starts for BeeBee8\_7:

(Start: 8 @4880 has 417 MA's), (20, 4997), (27, 5054), (34, 5141), (49, 5240), (72, 5408), (75, 5429), (76, 5435), (101, 5603), (105, 5627), (108, 5651), (114, 5723), (115, 5726),

Gene: Beezoo\_13 Start: 7951, Stop: 8889, Start Num: 8

Candidate Starts for Beezoo\_13:

(Start: 8 @7951 has 417 MA's), (17, 8041), (20, 8068), (27, 8125), (35, 8215), (37, 8227), (38, 8239), (52, 8326), (62, 8410), (69, 8440), (100, 8638), (107, 8677), (114, 8761), (115, 8764), (119, 8797), (123, 8821), (132, 8863),

Gene: Bella96\_13 Start: 7861, Stop: 8796, Start Num: 8

Candidate Starts for Bella96\_13:

(Start: 8 @7861 has 417 MA's), (17, 7951), (20, 7978), (35, 8125), (37, 8137), (38, 8149), (52, 8236), (69, 8350), (100, 8548), (107, 8587), (109, 8605), (114, 8671), (119, 8707), (123, 8731), (132, 8773),

Gene: Belladonna\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Belladonna\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844),

(132, 8886),

Gene: Benjalauren\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Benjalauren\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Bern\_14 Start: 7891, Stop: 8826, Start Num: 8

Candidate Starts for Bern\_14:

(Start: 8 @7891 has 417 MA's), (17, 7981), (20, 8008), (35, 8155), (37, 8167), (38, 8179), (52, 8266), (69, 8380), (100, 8578), (107, 8617), (109, 8635), (114, 8701), (119, 8737), (123, 8761), (128, 8788), (132, 8803),

Gene: BigPhil\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for BigPhil\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (111, 5775), (114, 5805), (116, 5820), (119, 5841),

Gene: BigRedClifford\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for BigRedClifford\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Biglebops\_9 Start: 7225, Stop: 8145, Start Num: 8

Candidate Starts for Biglebops\_9:

(Start: 8 @7225 has 417 MA's), (20, 7342), (24, 7369), (28, 7420), (35, 7489), (37, 7501), (41, 7537), (59, 7675), (62, 7684), (69, 7714), (83, 7813), (98, 7897), (102, 7918), (105, 7939), (107, 7951), (114, 8035), (119, 8071), (128, 8122), (129, 8125),

Gene: Blage\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Blage\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Blizzard\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Blizzard\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Bobi\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Bobi\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Bobquesha\_14 Start: 8929, Stop: 9858, Start Num: 8

Candidate Starts for Bobquesha\_14:

(Start: 8 @8929 has 417 MA's), (17, 9019), (19, 9040), (20, 9046), (24, 9073), (29, 9133), (40, 9235), (41, 9241), (57, 9361), (69, 9418), (81, 9508), (98, 9601), (107, 9655), (109, 9673), (114, 9739), (123, 9799),

Gene: Boiiii\_13 Start: 7976, Stop: 8911, Start Num: 8

Candidate Starts for Boiiii\_13:

(Start: 8 @7976 has 417 MA's), (17, 8066), (20, 8093), (35, 8240), (37, 8252), (38, 8264), (52, 8351), (62, 8435), (69, 8465), (100, 8663), (107, 8702), (114, 8786), (115, 8789), (119, 8822), (123, 8846), (132, 8888),

Gene: Boilgate\_10 Start: 7916, Stop: 8845, Start Num: 8

Candidate Starts for Boilgate\_10:

(Start: 8 @7916 has 417 MA's), (18, 8009), (19, 8027), (20, 8033), (24, 8060), (30, 8138), (38, 8204), (40, 8222), (41, 8228), (42, 8231), (57, 8348), (61, 8372), (69, 8405), (77, 8465), (78, 8468), (81, 8495), (85, 8528), (109, 8660), (114, 8726), (116, 8741), (119, 8762), (120, 8765), (123, 8786), (126, 8807),

Gene: BonesMcCoy\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for BonesMcCoy\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Bonino\_6 Start: 4707, Stop: 5633, Start Num: 7

Candidate Starts for Bonino\_6:

(Start: 7 @4707 has 10 MA's), (20, 4824), (23, 4845), (27, 4881), (35, 4974), (36, 4980), (37, 4986), (47, 5046), (56, 5130), (76, 5244), (95, 5370), (105, 5436), (114, 5520), (118, 5547), (132, 5622),

Gene: Boomer\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Boomer\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: BoostSeason\_9 Start: 5933, Stop: 6856, Start Num: 8

Candidate Starts for BoostSeason\_9:

(Start: 8 @5933 has 417 MA's), (19, 6044), (20, 6050), (24, 6077), (30, 6155), (37, 6209), (40, 6239), (41, 6245), (57, 6365), (85, 6545), (102, 6626), (105, 6647), (107, 6659), (114, 6743), (119, 6779), (121, 6788), (129, 6833),

Gene: BouleyBill\_6 Start: 4718, Stop: 5680, Start Num: 8

Candidate Starts for BouleyBill\_6:

(Start: 8 @4718 has 417 MA's), (19, 4829), (20, 4835), (23, 4856), (27, 4892), (30, 4943), (51, 5093), (53, 5105), (72, 5240), (109, 5489), (114, 5543), (115, 5546), (118, 5570),

Gene: Bridgette\_6 Start: 5591, Stop: 6574, Start Num: 3

Candidate Starts for Bridgette\_6:

(Start: 3 @5591 has 9 MA's), (4, 5615), (13, 5693), (27, 5807), (40, 5927), (44, 5948), (51, 5993), (92, 6278), (94, 6290), (102, 6344), (114, 6464),

Gene: Brookers\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Brookers\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (111, 5775), (114, 5805), (116, 5820), (119, 5841),

Gene: Brushbloom\_8 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Brushbloom\_8:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (19, 5118), (20, 5124), (26, 5163), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (103, 5703), (104, 5706), (105, 5721), (109, 5751), (114, 5805), (119, 5841),

Gene: Bryler\_12 Start: 6893, Stop: 7816, Start Num: 8

Candidate Starts for Bryler\_12:

(Start: 8 @6893 has 417 MA's), (20, 7010), (24, 7037), (33, 7139), (35, 7157), (37, 7169), (38, 7181), (57, 7325), (102, 7586), (107, 7619), (109, 7637), (114, 7703), (115, 7706), (119, 7739), (128, 7790),

Gene: Bustleton\_6 Start: 4719, Stop: 5669, Start Num: 8

Candidate Starts for Bustleton\_6:

(Start: 8 @4719 has 417 MA's), (19, 4830), (20, 4836), (23, 4857), (29, 4926), (30, 4944), (51, 5094), (53, 5106), (71, 5238), (72, 5241), (109, 5490), (114, 5544), (115, 5547), (118, 5571),

Gene: BuzzLyseyear\_7 Start: 5006, Stop: 5914, Start Num: 8

Candidate Starts for BuzzLyseyear\_7:

(Start: 8 @5006 has 417 MA's), (17, 5096), (18, 5099), (20, 5123), (27, 5180), (29, 5210), (38, 5294), (54, 5411), (74, 5543), (81, 5585), (103, 5702), (104, 5705), (109, 5750), (114, 5804), (116, 5819), (119, 5840),

Gene: Byron23\_6 Start: 4711, Stop: 5637, Start Num: 8

Candidate Starts for Byron23\_6:

(Start: 8 @4711 has 417 MA's), (20, 4828), (23, 4849), (27, 4885), (35, 4978), (36, 4984), (37, 4990), (47, 5050), (56, 5134), (76, 5248), (95, 5374), (105, 5440), (114, 5524), (118, 5551), (132, 5626),

Gene: CREW\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for CREW\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Cain\_12 Start: 6881, Stop: 7804, Start Num: 8

Candidate Starts for Cain\_12:

(Start: 8 @6881 has 417 MA's), (20, 6998), (24, 7025), (33, 7127), (35, 7145), (37, 7157), (38, 7169), (57, 7313), (102, 7574), (107, 7607), (109, 7625), (114, 7691), (115, 7694), (119, 7727), (128, 7778),

Gene: Calix\_6 Start: 4707, Stop: 5633, Start Num: 7

Candidate Starts for Calix\_6:

(Start: 7 @4707 has 10 MA's), (20, 4824), (23, 4845), (27, 4881), (35, 4974), (36, 4980), (37, 4986), (47, 5046), (56, 5130), (76, 5244), (95, 5370), (105, 5436), (114, 5520), (118, 5547), (132, 5622),

Gene: CallaLilly\_13 Start: 7898, Stop: 8836, Start Num: 8

Candidate Starts for CallaLilly\_13:

(Start: 8 @7898 has 417 MA's), (17, 7988), (20, 8015), (27, 8072), (35, 8162), (37, 8174), (38, 8186), (52, 8273), (62, 8357), (69, 8387), (100, 8585), (107, 8624), (114, 8708), (115, 8711), (119, 8744), (123, 8768), (132, 8810),

Gene: Capricorn\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Capricorn\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: CaptainRex\_8 Start: 5185, Stop: 6165, Start Num: 8

Candidate Starts for CaptainRex\_8:

(Start: 8 @5185 has 417 MA's), (19, 5296), (20, 5302), (23, 5323), (27, 5359), (36, 5458), (41, 5500), (47, 5524), (60, 5641), (71, 5710), (72, 5713), (99, 5899), (103, 5914), (105, 5932), (114, 6016), (115, 6019), (137, 6160),

Gene: CarisSwetlik\_8 Start: 5318, Stop: 6310, Start Num: 8

Candidate Starts for CarisSwetlik\_8:

(Start: 8 @5318 has 417 MA's), (20, 5435), (27, 5492), (29, 5525), (34, 5579), (37, 5597), (75, 5867), (103, 6047), (106, 6068), (108, 6089), (114, 6161), (115, 6164), (118, 6188), (137, 6305),

Gene: Carostasia\_6 Start: 5021, Stop: 5974, Start Num: 8

Candidate Starts for Carostasia\_6:

(Start: 8 @5021 has 417 MA's), (20, 5138), (21, 5150), (23, 5159), (24, 5165), (27, 5195), (51, 5396), (56, 5444), (72, 5543), (96, 5702), (100, 5735), (103, 5744), (114, 5846), (115, 5849),

Gene: CaseJules\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for CaseJules\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Casey\_6 Start: 5146, Stop: 6075, Start Num: 8

Candidate Starts for Casey\_6:

(Start: 8 @5146 has 417 MA's), (20, 5263), (23, 5284), (24, 5290), (27, 5320), (34, 5401), (35, 5407), (36, 5413), (37, 5419), (47, 5479), (56, 5563), (72, 5650), (75, 5671), (76, 5677), (96, 5809), (109, 5899), (114, 5965), (118, 5992),

Gene: Cerasum\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Cerasum\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (111, 5775), (114, 5805), (116, 5820), (119, 5841),

Gene: Chako\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Chako\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Chamuel\_6 Start: 4709, Stop: 5635, Start Num: 7

Candidate Starts for Chamuel\_6:

(Start: 7 @4709 has 10 MA's), (20, 4826), (23, 4847), (27, 4883), (35, 4976), (36, 4982), (37, 4988), (47, 5048), (56, 5132), (76, 5246), (95, 5372), (100, 5411), (105, 5438), (114, 5522), (118, 5549), (132, 5624),

Gene: Chancellor\_14 Start: 9175, Stop: 10104, Start Num: 8

Candidate Starts for Chancellor\_14:

(Start: 8 @9175 has 417 MA's), (17, 9265), (19, 9286), (20, 9292), (24, 9319), (29, 9379), (40, 9481), (41, 9487), (51, 9547), (57, 9607), (69, 9664), (78, 9727), (81, 9754), (98, 9847), (107, 9901), (109, 9919), (114, 9985), (123, 10045),

Gene: Chavito\_13 Start: 6999, Stop: 7937, Start Num: 8

Candidate Starts for Chavito\_13:

(Start: 8 @6999 has 417 MA's), (17, 7089), (20, 7116), (24, 7143), (35, 7263), (37, 7275), (52, 7374), (62, 7458), (69, 7488), (100, 7686), (107, 7725), (109, 7743), (114, 7809), (115, 7812), (123, 7869),

Gene: Cheeto1\_7 Start: 4820, Stop: 5764, Start Num: 8

Candidate Starts for Cheeto1\_7:

(Start: 8 @4820 has 417 MA's), (20, 4937), (23, 4958), (34, 5081), (37, 5099), (47, 5159), (56, 5243), (75, 5363), (106, 5564), (108, 5585), (114, 5645), (118, 5672),

Gene: CheetoDust\_13 Start: 7951, Stop: 8886, Start Num: 8

Candidate Starts for CheetoDust\_13:

(Start: 8 @7951 has 417 MA's), (17, 8041), (20, 8068), (35, 8215), (37, 8227), (38, 8239), (52, 8326), (62, 8410), (69, 8440), (100, 8638), (107, 8677), (109, 8695), (114, 8761), (115, 8764), (119, 8797), (123, 8821), (132, 8863),

Gene: Cheetobro\_14 Start: 9175, Stop: 10104, Start Num: 8

Candidate Starts for Cheetobro\_14:

(Start: 8 @9175 has 417 MA's), (17, 9265), (19, 9286), (20, 9292), (24, 9319), (29, 9379), (40, 9481), (41, 9487), (51, 9547), (57, 9607), (69, 9664), (78, 9727), (81, 9754), (98, 9847), (107, 9901), (109, 9919), (114, 9985), (123, 10045),

Gene: Chepli\_8 Start: 5181, Stop: 6134, Start Num: 8

Candidate Starts for Chepli\_8:

(Start: 8 @5181 has 417 MA's), (19, 5292), (20, 5298), (23, 5319), (24, 5325), (27, 5355), (47, 5520), (51, 5556), (59, 5634), (72, 5709), (101, 5904), (114, 6012), (115, 6015), (128, 6105),

Gene: ChickenDinner\_7 Start: 5011, Stop: 5919, Start Num: 8

Candidate Starts for ChickenDinner\_7:

(Start: 8 @5011 has 417 MA's), (17, 5101), (18, 5104), (20, 5128), (27, 5185), (29, 5215), (38, 5299), (51, 5383), (54, 5416), (74, 5548), (81, 5590), (103, 5707), (104, 5710), (109, 5755), (114, 5809), (116, 5824), (119, 5845),

Gene: ChickenKing\_6 Start: 4646, Stop: 5590, Start Num: 8

Candidate Starts for ChickenKing\_6:

(Start: 8 @4646 has 417 MA's), (20, 4763), (23, 4784), (24, 4790), (34, 4907), (37, 4925), (47, 4985), (56, 5069), (75, 5189), (106, 5390), (108, 5411), (114, 5471), (118, 5498), (135, 5579),

Gene: ChikPic\_6 Start: 4889, Stop: 5836, Start Num: 8

Candidate Starts for ChikPic\_6:

(Start: 8 @4889 has 417 MA's), (16, 4976), (20, 5006), (21, 5018), (23, 5027), (29, 5096), (47, 5228), (56, 5312), (72, 5411), (75, 5432), (106, 5633), (114, 5714),

Gene: Chris\_12 Start: 6799, Stop: 7722, Start Num: 8

Candidate Starts for Chris\_12:

(Start: 8 @6799 has 417 MA's), (19, 6910), (20, 6916), (24, 6943), (30, 7021), (35, 7063), (37, 7075), (38, 7087), (52, 7174), (54, 7204), (56, 7219), (59, 7249), (73, 7324), (83, 7387), (107, 7525), (112, 7594), (114, 7609), (115, 7612), (119, 7645), (121, 7654), (123, 7669),

Gene: Christoph\_6 Start: 4720, Stop: 5646, Start Num: 8

Candidate Starts for Christoph\_6:

(Start: 8 @4720 has 417 MA's), (20, 4837), (23, 4858), (27, 4894), (35, 4987), (36, 4993), (37, 4999), (47, 5059), (56, 5143), (76, 5257), (95, 5383), (105, 5449), (114, 5533), (118, 5560), (132, 5635),

Gene: ChuckDuck\_6 Start: 5552, Stop: 6535, Start Num: 3



Candidate Starts for ChuckDuck\_6:

(Start: 3 @5552 has 9 MA's), (4, 5576), (13, 5654), (27, 5768), (40, 5888), (44, 5909), (51, 5954), (92, 6239), (94, 6251), (102, 6305), (114, 6425),

Gene: Clancy\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Clancy\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Clipper\_14 Start: 7951, Stop: 8886, Start Num: 8

Candidate Starts for Clipper\_14:

(Start: 8 @7951 has 417 MA's), (17, 8041), (20, 8068), (35, 8215), (37, 8227), (38, 8239), (52, 8326), (62, 8410), (69, 8440), (100, 8638), (107, 8677), (114, 8761), (115, 8764), (119, 8797), (123, 8821), (132, 8863),

Gene: Clock\_8 Start: 5907, Stop: 6884, Start Num: 8

Candidate Starts for Clock\_8:

(Start: 8 @5907 has 417 MA's), (14, 5970), (17, 5997), (19, 6018), (20, 6024), (23, 6045), (30, 6132), (47, 6246), (51, 6282), (60, 6363), (72, 6435), (78, 6468), (84, 6516), (99, 6621), (103, 6636), (105, 6654), (114, 6738), (115, 6741), (118, 6765),

Gene: Coco12\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Coco12\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: ColaCorta\_6 Start: 4885, Stop: 5826, Start Num: 8

Candidate Starts for ColaCorta\_6:

(Start: 8 @4885 has 417 MA's), (16, 4972), (20, 5002), (21, 5014), (23, 5023), (27, 5059), (47, 5224), (56, 5308), (72, 5407), (106, 5629), (114, 5710), (136, 5815),

Gene: Collard\_11 Start: 8061, Stop: 8981, Start Num: 8

Candidate Starts for Collard\_11:

(Start: 8 @8061 has 417 MA's), (20, 8178), (24, 8205), (29, 8265), (31, 8301), (33, 8307), (37, 8337), (41, 8373), (52, 8436), (54, 8466), (114, 8871), (115, 8874), (119, 8907), (123, 8931),

Gene: Constance\_6 Start: 5596, Stop: 6579, Start Num: 3

Candidate Starts for Constance\_6:

(Start: 3 @5596 has 9 MA's), (4, 5620), (13, 5698), (27, 5812), (40, 5932), (44, 5953), (51, 5998), (92, 6283), (94, 6295), (102, 6349), (114, 6469),

Gene: Convict\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Convict\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Cornucopia\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Cornucopia\_7:

(Start: 8 @5007 has 417 MA's), (19, 5118), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (72, 5526), (74, 5544), (103, 5703), (104, 5706), (105, 5721), (109, 5751), (111, 5775), (114, 5805),

Gene: CrimD\_13 Start: 7903, Stop: 8838, Start Num: 8

Candidate Starts for CrimD\_13:

(Start: 8 @7903 has 417 MA's), (17, 7993), (20, 8020), (35, 8167), (37, 8179), (38, 8191), (52, 8278), (69, 8392), (100, 8590), (107, 8629), (109, 8647), (114, 8713), (115, 8716), (119, 8749), (123, 8773), (132, 8815),

Gene: Curiosium\_14 Start: 7298, Stop: 8221, Start Num: 8

Candidate Starts for Curiosium\_14:

(Start: 8 @7298 has 417 MA's), (17, 7388), (20, 7415), (35, 7562), (37, 7574), (38, 7586), (52, 7673), (59, 7748), (69, 7787), (100, 7985), (107, 8024), (114, 8108), (115, 8111), (119, 8144), (123, 8168),

Gene: DS6A\_11 Start: 8184, Stop: 9230, Start Num: 8

Candidate Starts for DS6A\_11:

(Start: 8 @8184 has 417 MA's), (9, 8208), (18, 8277), (20, 8301), (24, 8328), (25, 8331), (36, 8475), (38, 8493), (45, 8535), (51, 8577), (58, 8652), (70, 8706), (77, 8748), (80, 8766), (85, 8811), (91, 8880), (93, 8892), (97, 8922), (104, 8955), (105, 8970), (107, 8982), (114, 9054), (124, 9123), (127, 9141), (131, 9150),

Gene: DaWorst\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for DaWorst\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Dadosky\_11 Start: 7994, Stop: 8926, Start Num: 8

Candidate Starts for Dadosky\_11:

(Start: 8 @7994 has 417 MA's), (20, 8111), (24, 8138), (29, 8198), (31, 8234), (33, 8240), (37, 8270), (41, 8306), (52, 8369), (54, 8399), (114, 8804), (115, 8807), (123, 8864),

Gene: Dalmuri\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Dalmuri\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: DarthP\_12 Start: 7821, Stop: 8753, Start Num: 8

Candidate Starts for DarthP\_12:

(Start: 8 @7821 has 417 MA's), (17, 7911), (20, 7938), (24, 7965), (37, 8097), (46, 8154), (56, 8241), (59, 8271), (69, 8310), (83, 8409), (105, 8535), (107, 8547), (109, 8565), (114, 8631), (115, 8634), (123, 8691),

Gene: Dartin\_13 Start: 7012, Stop: 7941, Start Num: 8

Candidate Starts for Dartin\_13:

(Start: 8 @7012 has 417 MA's), (17, 7102), (20, 7129), (24, 7156), (35, 7276), (37, 7288), (52, 7387), (62, 7471), (100, 7699), (107, 7738), (109, 7756), (114, 7822), (115, 7825), (123, 7882), (126, 7903),

Gene: Dave\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Dave\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (49, 5068), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Deby\_13 Start: 7902, Stop: 8840, Start Num: 8

Candidate Starts for Deby\_13:

(Start: 8 @7902 has 417 MA's), (17, 7992), (20, 8019), (35, 8166), (37, 8178), (38, 8190), (52, 8277), (62, 8361), (69, 8391), (100, 8589), (107, 8628), (114, 8712), (115, 8715), (119, 8748), (123, 8772), (132, 8814),

Gene: Delphidian\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Delphidian\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Den3\_6 Start: 4712, Stop: 5638, Start Num: 8

Candidate Starts for Den3\_6:

(Start: 8 @4712 has 417 MA's), (20, 4829), (23, 4850), (27, 4886), (35, 4979), (36, 4985), (37, 4991), (47, 5051), (56, 5135), (76, 5249), (95, 5375), (105, 5441), (114, 5525), (118, 5552), (132, 5627),

Gene: Devera\_13 Start: 7928, Stop: 8863, Start Num: 8

Candidate Starts for Devera\_13:

(Start: 8 @7928 has 417 MA's), (17, 8018), (20, 8045), (35, 8192), (37, 8204), (38, 8216), (52, 8303), (69, 8417), (100, 8615), (107, 8654), (109, 8672), (114, 8738), (115, 8741), (119, 8774), (120, 8777), (123, 8798), (132, 8840),

Gene: DirtMcgirt\_7 Start: 5009, Stop: 5917, Start Num: 8

Candidate Starts for DirtMcgirt\_7:

(Start: 8 @5009 has 417 MA's), (17, 5099), (18, 5102), (20, 5126), (27, 5183), (29, 5213), (38, 5297), (54, 5414), (74, 5546), (81, 5588), (103, 5705), (104, 5708), (109, 5753), (114, 5807), (116, 5822), (119, 5843),

Gene: DismalFunk\_9 Start: 5947, Stop: 6864, Start Num: 8

Candidate Starts for DismalFunk\_9:

(Start: 8 @5947 has 417 MA's), (19, 6058), (20, 6064), (24, 6091), (37, 6223), (40, 6253), (41, 6259), (57, 6379), (85, 6559), (105, 6661), (114, 6757), (119, 6793), (121, 6802), (129, 6847),

Gene: DismalStressor\_9 Start: 5947, Stop: 6864, Start Num: 8

Candidate Starts for DismalStressor\_9:

(Start: 8 @5947 has 417 MA's), (19, 6058), (20, 6064), (24, 6091), (37, 6223), (40, 6253), (41, 6259), (57, 6379), (85, 6559), (105, 6661), (114, 6757), (119, 6793), (121, 6802), (129, 6847),

Gene: DocMcStuffins\_7 Start: 5011, Stop: 5919, Start Num: 8

Candidate Starts for DocMcStuffins\_7:

(Start: 8 @5011 has 417 MA's), (17, 5101), (18, 5104), (20, 5128), (27, 5185), (29, 5215), (38, 5299), (51, 5383), (54, 5416), (74, 5548), (81, 5590), (103, 5707), (104, 5710), (109, 5755), (114, 5809), (116, 5824), (119, 5845),

Gene: Dole\_13 Start: 7930, Stop: 8865, Start Num: 8

Candidate Starts for Dole\_13:

(Start: 8 @7930 has 417 MA's), (17, 8020), (20, 8047), (35, 8194), (37, 8206), (38, 8218), (52, 8305), (69, 8419), (100, 8617), (107, 8656), (109, 8674), (114, 8740), (115, 8743), (119, 8776), (120, 8779), (123, 8800), (132, 8842),

Gene: DosHalletts\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for DosHalletts\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Dothraki\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Dothraki\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Doughnut\_9 Start: 5933, Stop: 6850, Start Num: 8

Candidate Starts for Doughnut\_9:

(Start: 8 @5933 has 417 MA's), (19, 6044), (20, 6050), (24, 6077), (30, 6155), (37, 6209), (40, 6239), (41, 6245), (57, 6365), (85, 6545), (102, 6626), (105, 6647), (107, 6659), (114, 6743), (119, 6779), (121, 6788), (129, 6833),

Gene: DrHayes\_13 Start: 7882, Stop: 8817, Start Num: 8

Candidate Starts for DrHayes\_13:

(Start: 8 @7882 has 417 MA's), (17, 7972), (20, 7999), (35, 8146), (37, 8158), (38, 8170), (52, 8257), (69, 8371), (100, 8569), (107, 8608), (109, 8626), (114, 8692), (119, 8728), (123, 8752), (132, 8794),

Gene: Drago\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Drago\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Duocatuli\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Duocatuli\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Durfee\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Durfee\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Edugator\_10 Start: 7994, Stop: 8926, Start Num: 8

Candidate Starts for Edugator\_10:

(Start: 8 @7994 has 417 MA's), (20, 8111), (24, 8138), (29, 8198), (31, 8234), (33, 8240), (37, 8270), (41, 8306), (52, 8369), (54, 8399), (114, 8804), (115, 8807), (123, 8864),

Gene: Efra2\_13 Start: 6872, Stop: 7801, Start Num: 8

Candidate Starts for Efra2\_13:

(Start: 8 @6872 has 417 MA's), (17, 6962), (20, 6989), (35, 7136), (37, 7148), (38, 7160), (52, 7247), (69, 7361), (100, 7559), (107, 7598), (114, 7682), (115, 7685), (119, 7718), (123, 7742), (128, 7769), (132, 7784),

Gene: Eileen\_6 Start: 5556, Stop: 6539, Start Num: 3

Candidate Starts for Eileen\_6:

(Start: 3 @5556 has 9 MA's), (4, 5580), (13, 5658), (27, 5772), (37, 5862), (40, 5892), (44, 5913), (51, 5958), (92, 6243), (94, 6255), (102, 6309), (114, 6429),

Gene: Ekdilam\_10 Start: 7548, Stop: 8483, Start Num: 8

Candidate Starts for Ekdilam\_10:

(Start: 8 @7548 has 417 MA's), (17, 7638), (20, 7665), (24, 7692), (37, 7824), (41, 7860), (56, 7968), (59, 7998), (69, 8037), (83, 8136), (105, 8262), (107, 8274), (109, 8292), (114, 8358), (115, 8361), (119, 8394), (123, 8418),

Gene: Eleri\_6 Start: 4886, Stop: 5833, Start Num: 8

Candidate Starts for Eleri\_6:

(Start: 8 @4886 has 417 MA's), (16, 4973), (20, 5003), (21, 5015), (23, 5024), (27, 5060), (47, 5225), (56, 5309), (72, 5408), (106, 5630), (114, 5711),

Gene: Ellie\_10 Start: 7643, Stop: 8566, Start Num: 8

Candidate Starts for Ellie\_10:

(Start: 8 @7643 has 417 MA's), (17, 7733), (20, 7760), (24, 7787), (29, 7847), (37, 7919), (38, 7931), (46, 7976), (54, 8048), (65, 8111), (83, 8231), (105, 8357), (107, 8369), (109, 8387), (114, 8453), (115, 8456), (119, 8489), (123, 8513),

Gene: Emerson\_13 Start: 7934, Stop: 8869, Start Num: 8

Candidate Starts for Emerson\_13:

(Start: 8 @7934 has 417 MA's), (17, 8024), (20, 8051), (35, 8198), (37, 8210), (38, 8222), (52, 8309), (62, 8393), (69, 8423), (100, 8621), (107, 8660), (114, 8744), (115, 8747), (119, 8780), (123, 8804), (132, 8846),

Gene: Emmaloid\_8 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Emmaloid\_8:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Enby\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Enby\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Endor\_7 Start: 5123, Stop: 6103, Start Num: 8

Candidate Starts for Endor\_7:

(1, 4958), (Start: 8 @5123 has 417 MA's), (20, 5240), (29, 5330), (30, 5348), (34, 5384), (37, 5402), (49, 5483), (56, 5546), (72, 5651), (75, 5672), (76, 5678), (108, 5894), (114, 5954), (118, 5981),

Gene: Enkosi\_9 Start: 7225, Stop: 8145, Start Num: 8

Candidate Starts for Enkosi\_9:

(Start: 8 @7225 has 417 MA's), (20, 7342), (24, 7369), (28, 7420), (35, 7489), (37, 7501), (41, 7537), (59, 7675), (62, 7684), (69, 7714), (83, 7813), (98, 7897), (102, 7918), (105, 7939), (107, 7951), (114, 8035), (119, 8071), (128, 8122), (129, 8125),

Gene: Eponine\_14 Start: 9051, Stop: 9980, Start Num: 8

Candidate Starts for Eponine\_14:

(Start: 8 @9051 has 417 MA's), (17, 9141), (19, 9162), (20, 9168), (24, 9195), (29, 9255), (37, 9327), (40, 9357), (41, 9363), (69, 9540), (78, 9603), (81, 9630), (85, 9663), (98, 9723), (107, 9777), (114, 9861), (119, 9897), (123, 9921),

Gene: Erla\_6 Start: 4707, Stop: 5633, Start Num: 7

Candidate Starts for Erla\_6:

(Start: 7 @4707 has 10 MA's), (20, 4824), (23, 4845), (27, 4881), (35, 4974), (36, 4980), (37, 4986), (47, 5046), (56, 5130), (76, 5244), (95, 5370), (105, 5436), (114, 5520), (118, 5547), (132, 5622),

Gene: Espinosa\_6 Start: 4720, Stop: 5646, Start Num: 8

Candidate Starts for Espinosa\_6:

(Start: 8 @4720 has 417 MA's), (20, 4837), (23, 4858), (27, 4894), (35, 4987), (36, 4993), (37, 4999), (47, 5059), (56, 5143), (76, 5257), (95, 5383), (105, 5449), (114, 5533), (118, 5560), (132, 5635),

Gene: Etna\_6 Start: 4705, Stop: 5697, Start Num: 8

Candidate Starts for Etna\_6:

(Start: 8 @4705 has 417 MA's), (20, 4822), (27, 4879), (34, 4966), (49, 5065), (72, 5233), (75, 5254), (76, 5260), (101, 5428), (105, 5452), (108, 5476), (114, 5548), (115, 5551),

Gene: Etta\_6 Start: 4711, Stop: 5637, Start Num: 7

Candidate Starts for Etta\_6:

(Start: 7 @4711 has 10 MA's), (20, 4828), (23, 4849), (27, 4885), (35, 4978), (36, 4984), (37, 4990), (47, 5050), (56, 5134), (76, 5248), (95, 5374), (100, 5413), (105, 5440), (114, 5524), (118, 5551), (132, 5626),

Gene: Exploradora\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Exploradora\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: FF47\_09 Start: 6426, Stop: 7418, Start Num: 5

Candidate Starts for FF47\_09:

(Start: 5 @6426 has 4 MA's), (13, 6501), (19, 6552), (20, 6558), (27, 6615), (32, 6672), (36, 6699), (50, 6789), (68, 6912), (75, 6954), (82, 6996), (97, 7116), (106, 7167), (113, 7254), (122, 7317),

Gene: Farewell\_6 Start: 5364, Stop: 6332, Start Num: 6

Candidate Starts for Farewell\_6:

(Start: 6 @5364 has 2 MA's), (9, 5388), (17, 5454), (20, 5481), (25, 5511), (29, 5568), (33, 5610), (36, 5634), (37, 5640), (38, 5652), (51, 5736), (57, 5796), (79, 5919), (88, 6015), (97, 6081), (103, 6111), (109, 6159), (111, 6183), (114, 6213), (115, 6216), (119, 6249),

Gene: FarmerDoug\_6 Start: 4708, Stop: 5688, Start Num: 8

Candidate Starts for FarmerDoug\_6:

(1, 4543), (Start: 8 @4708 has 417 MA's), (20, 4825), (29, 4915), (30, 4933), (34, 4969), (37, 4987), (49, 5068), (56, 5131), (72, 5236), (75, 5257), (76, 5263), (108, 5479), (114, 5539), (118, 5566),

Gene: Fefferhead\_12 Start: 7810, Stop: 8733, Start Num: 8

Candidate Starts for Fefferhead\_12:

(Start: 8 @7810 has 417 MA's), (17, 7900), (20, 7927), (24, 7954), (29, 8014), (37, 8086), (38, 8098), (54, 8215), (65, 8278), (83, 8398), (105, 8524), (107, 8536), (109, 8554), (114, 8620), (115, 8623), (119, 8656), (123, 8680),

Gene: Feyre\_11 Start: 7873, Stop: 8805, Start Num: 8

Candidate Starts for Feyre\_11:

(Start: 8 @7873 has 417 MA's), (20, 7990), (24, 8017), (29, 8077), (31, 8113), (33, 8119), (41, 8185), (52, 8248), (54, 8278), (78, 8425), (114, 8683), (115, 8686), (119, 8719), (123, 8743),

Gene: Figueroism\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Figueroism\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Findley\_9 Start: 5947, Stop: 6864, Start Num: 8

Candidate Starts for Findley\_9:

(Start: 8 @5947 has 417 MA's), (19, 6058), (20, 6064), (24, 6091), (30, 6169), (37, 6223), (40, 6253), (41, 6259), (57, 6379), (85, 6559), (105, 6661), (114, 6757), (119, 6793), (121, 6802), (129, 6847),

Gene: Finny\_6 Start: 4886, Stop: 5827, Start Num: 8

Candidate Starts for Finny\_6:

(Start: 8 @4886 has 417 MA's), (16, 4973), (20, 5003), (21, 5015), (23, 5024), (29, 5093), (47, 5225), (56, 5309), (72, 5408), (106, 5630), (114, 5711), (136, 5816),

Gene: Fionnbharth\_14 Start: 9165, Stop: 10094, Start Num: 8

Candidate Starts for Fionnbharth\_14:

(Start: 8 @9165 has 417 MA's), (17, 9255), (19, 9276), (20, 9282), (24, 9309), (29, 9369), (40, 9471), (41, 9477), (51, 9537), (57, 9597), (69, 9654), (78, 9717), (81, 9744), (98, 9837), (107, 9891), (109, 9909), (114, 9975), (123, 10035),

Gene: Flathead\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Flathead\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (19, 5118), (20, 5124), (26, 5163), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (103, 5703), (104, 5706), (105, 5721), (109, 5751), (114, 5805), (119, 5841),

Gene: FosterFrank\_6 Start: 5554, Stop: 6537, Start Num: 3

Candidate Starts for FosterFrank\_6:

(Start: 3 @5554 has 9 MA's), (4, 5578), (13, 5656), (27, 5770), (40, 5890), (44, 5911), (94, 6253), (102, 6307), (114, 6427),

Gene: Frankie\_7 Start: 5201, Stop: 6109, Start Num: 8

Candidate Starts for Frankie\_7:

(Start: 8 @5201 has 417 MA's), (17, 5291), (18, 5294), (20, 5318), (27, 5375), (29, 5405), (38, 5489), (54, 5606), (74, 5738), (81, 5780), (103, 5897), (104, 5900), (105, 5915), (109, 5945), (111, 5969), (114, 5999),

Gene: Fryberger\_39 Start: 14324, Stop: 15298, Start Num: 8

Candidate Starts for Fryberger\_39:

(Start: 8 @14324 has 417 MA's), (15, 14396), (17, 14414), (20, 14441), (46, 14657), (59, 14774), (72, 14843), (86, 14951), (87, 14978), (90, 14999), (97, 15047), (104, 15080), (107, 15107), (114, 15179), (115, 15182), (120, 15218),

Gene: Fulton\_8 Start: 5173, Stop: 6153, Start Num: 8

Candidate Starts for Fulton\_8:

(Start: 8 @5173 has 417 MA's), (19, 5284), (20, 5290), (23, 5311), (30, 5398), (36, 5446), (41, 5488), (47, 5512), (60, 5629), (71, 5698), (72, 5701), (99, 5887), (103, 5902), (105, 5920), (114, 6004), (115, 6007), (137, 6148),

Gene: GaeCeo\_7 Start: 4819, Stop: 5760, Start Num: 8

Candidate Starts for GaeCeo\_7:

(Start: 8 @4819 has 417 MA's), (20, 4936), (23, 4957), (24, 4963), (34, 5080), (37, 5098), (47, 5158), (56, 5242), (75, 5362), (106, 5563), (108, 5584), (114, 5644), (118, 5671), (135, 5749),

Gene: Ganymede\_13 Start: 7951, Stop: 8886, Start Num: 8

Candidate Starts for Ganymede\_13:

(Start: 8 @7951 has 417 MA's), (17, 8041), (20, 8068), (35, 8215), (37, 8227), (38, 8239), (52, 8326), (62, 8410), (69, 8440), (100, 8638), (107, 8677), (114, 8761), (115, 8764), (119, 8797), (123, 8821), (132, 8863),

Gene: GardenB\_6 Start: 4714, Stop: 5703, Start Num: 8

Candidate Starts for GardenB\_6:

(Start: 8 @4714 has 417 MA's), (20, 4831), (29, 4921), (34, 4975), (49, 5074), (56, 5137), (72, 5242), (75, 5263), (101, 5437), (103, 5443), (106, 5464), (114, 5557), (118, 5584),

Gene: Garey24\_6 Start: 4713, Stop: 5639, Start Num: 7

Candidate Starts for Garey24\_6:

(Start: 7 @4713 has 10 MA's), (20, 4830), (23, 4851), (27, 4887), (35, 4980), (36, 4986), (37, 4992), (47, 5052), (56, 5136), (76, 5250), (95, 5376), (105, 5442), (114, 5526), (118, 5553), (132, 5628),

Gene: Gargoyle\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Gargoyle\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Gelo\_6 Start: 4711, Stop: 5637, Start Num: 7

Candidate Starts for Gelo\_6:

(Start: 7 @4711 has 10 MA's), (20, 4828), (23, 4849), (27, 4885), (35, 4978), (36, 4984), (37, 4990), (47, 5050), (56, 5134), (76, 5248), (95, 5374), (100, 5413), (105, 5440), (114, 5524), (118, 5551), (132, 5626),

Gene: Gengar\_11 Start: 7980, Stop: 8912, Start Num: 8

Candidate Starts for Gengar\_11:

(Start: 8 @7980 has 417 MA's), (20, 8097), (24, 8124), (29, 8184), (31, 8220), (33, 8226), (41, 8292), (52, 8355), (78, 8532), (114, 8790), (115, 8793), (119, 8826), (123, 8850),

Gene: Geraldini\_13 Start: 7951, Stop: 8889, Start Num: 8

Candidate Starts for Geraldini\_13:

(Start: 8 @7951 has 417 MA's), (17, 8041), (20, 8068), (27, 8125), (35, 8215), (37, 8227), (38, 8239), (52, 8326), (62, 8410), (69, 8440), (100, 8638), (107, 8677), (114, 8761), (115, 8764), (119, 8797), (123, 8821), (132, 8863),

Gene: Gershwin\_6 Start: 4722, Stop: 5648, Start Num: 8

Candidate Starts for Gershwin\_6:

(Start: 8 @4722 has 417 MA's), (20, 4839), (23, 4860), (27, 4896), (35, 4989), (36, 4995), (37, 5001), (47, 5061), (56, 5145), (76, 5259), (95, 5385), (105, 5451), (114, 5535), (118, 5562), (132, 5637),

Gene: Girafales\_7 Start: 5002, Stop: 5910, Start Num: 8

Candidate Starts for Girafales\_7:

(Start: 8 @5002 has 417 MA's), (17, 5092), (18, 5095), (20, 5119), (27, 5176), (29, 5206), (38, 5290), (54, 5407), (74, 5539), (81, 5581), (103, 5698), (104, 5701), (109, 5746), (114, 5800), (116, 5815), (119, 5836),

Gene: Glamour\_5 Start: 4886, Stop: 5827, Start Num: 8

Candidate Starts for Glamour\_5:

(Start: 8 @4886 has 417 MA's), (16, 4973), (20, 5003), (21, 5015), (23, 5024), (27, 5060), (47, 5225), (56, 5309), (72, 5408), (106, 5630), (114, 5711), (136, 5816),



Gene: GlobiWarming\_6 Start: 5551, Stop: 6534, Start Num: 3

Candidate Starts for GlobiWarming\_6:

(Start: 3 @5551 has 9 MA's), (4, 5575), (13, 5653), (27, 5767), (40, 5887), (44, 5908), (51, 5953), (92, 6238), (94, 6250), (102, 6304), (114, 6424),

Gene: Golden\_6 Start: 4803, Stop: 5765, Start Num: 8

Candidate Starts for Golden\_6:

(Start: 8 @4803 has 417 MA's), (19, 4914), (20, 4920), (23, 4941), (27, 4977), (30, 5028), (51, 5178), (53, 5190), (96, 5484), (109, 5574), (114, 5628), (115, 5631), (118, 5655),

Gene: Greenlvy\_8 Start: 5188, Stop: 6168, Start Num: 8

Candidate Starts for Greenlvy\_8:

(Start: 8 @5188 has 417 MA's), (19, 5299), (20, 5305), (23, 5326), (27, 5362), (36, 5461), (47, 5527), (60, 5644), (71, 5713), (72, 5716), (99, 5902), (103, 5917), (105, 5935), (114, 6019), (115, 6022), (137, 6163),

Gene: Greys\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Greys\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Guanica15\_13 Start: 6888, Stop: 7817, Start Num: 8

Candidate Starts for Guanica15\_13:

(Start: 8 @6888 has 417 MA's), (17, 6978), (20, 7005), (35, 7152), (37, 7164), (38, 7176), (52, 7263), (69, 7377), (100, 7575), (107, 7614), (114, 7698), (115, 7701), (119, 7734), (123, 7758), (128, 7785), (132, 7800),

Gene: Gubbabump\_6 Start: 4710, Stop: 5636, Start Num: 8

Candidate Starts for Gubbabump\_6:

(Start: 8 @4710 has 417 MA's), (20, 4827), (23, 4848), (27, 4884), (35, 4977), (36, 4983), (37, 4989), (47, 5049), (56, 5133), (76, 5247), (95, 5373), (105, 5439), (114, 5523), (118, 5550), (132, 5625),

Gene: Guetzie\_6 Start: 4803, Stop: 5753, Start Num: 8

Candidate Starts for Guetzie\_6:

(Start: 8 @4803 has 417 MA's), (19, 4914), (20, 4920), (23, 4941), (27, 4977), (30, 5028), (51, 5178), (53, 5190), (72, 5325), (109, 5574), (114, 5628), (115, 5631), (118, 5655),

Gene: Guey18\_44 Start: 15517, Stop: 16491, Start Num: 8

Candidate Starts for Guey18\_44:

(Start: 8 @15517 has 417 MA's), (15, 15589), (17, 15607), (20, 15634), (46, 15850), (59, 15967), (72, 16036), (86, 16144), (87, 16171), (90, 16192), (104, 16273), (107, 16300), (114, 16372), (115, 16375), (120, 16411),

Gene: Guillsminger\_11 Start: 7955, Stop: 8887, Start Num: 8

Candidate Starts for Guillsminger\_11:

(Start: 8 @7955 has 417 MA's), (20, 8072), (24, 8099), (29, 8159), (31, 8195), (33, 8201), (41, 8267), (52, 8330), (78, 8507), (114, 8765), (115, 8768), (119, 8801), (123, 8825),

Gene: HairyMan\_7 Start: 4836, Stop: 5825, Start Num: 8

Candidate Starts for HairyMan\_7:

(Start: 8 @4836 has 417 MA's), (14, 4899), (20, 4953), (21, 4965), (23, 4974), (27, 5010), (29, 5043), (30, 5061), (56, 5259), (66, 5316), (83, 5427), (114, 5673), (118, 5700), (130, 5772),

Gene: Hamlet\_6 Start: 4714, Stop: 5694, Start Num: 8

Candidate Starts for Hamlet\_6:

(Start: 8 @4714 has 417 MA's), (20, 4831), (29, 4921), (30, 4939), (34, 4975), (49, 5074), (56, 5137), (72, 5242), (75, 5263), (76, 5269), (108, 5485), (114, 5545), (118, 5572),

Gene: Hammy\_12 Start: 7818, Stop: 8747, Start Num: 8

Candidate Starts for Hammy\_12:

(Start: 8 @7818 has 417 MA's), (17, 7908), (20, 7935), (24, 7962), (37, 8094), (46, 8151), (56, 8238), (59, 8268), (69, 8307), (83, 8406), (105, 8532), (107, 8544), (109, 8562), (114, 8628), (115, 8631), (123, 8688),

Gene: HanSolo\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for HanSolo\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: HankSprout\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for HankSprout\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Hasitha\_8 Start: 5185, Stop: 6165, Start Num: 8

Candidate Starts for Hasitha\_8:

(Start: 8 @5185 has 417 MA's), (19, 5296), (20, 5302), (23, 5323), (36, 5458), (41, 5500), (47, 5524), (60, 5641), (71, 5710), (72, 5713), (99, 5899), (103, 5914), (105, 5932), (114, 6016), (115, 6019), (137, 6160),

Gene: HedwigODU\_13 Start: 7931, Stop: 8869, Start Num: 8

Candidate Starts for HedwigODU\_13:

(Start: 8 @7931 has 417 MA's), (17, 8021), (20, 8048), (35, 8195), (37, 8207), (38, 8219), (52, 8306), (62, 8390), (69, 8420), (100, 8618), (107, 8657), (114, 8741), (115, 8744), (119, 8777), (123, 8801), (132, 8843),

Gene: Heftyboy\_11 Start: 8082, Stop: 9014, Start Num: 8

Candidate Starts for Heftyboy\_11:

(Start: 8 @8082 has 417 MA's), (20, 8199), (24, 8226), (29, 8286), (31, 8322), (33, 8328), (41, 8394), (52, 8457), (78, 8634), (114, 8892), (115, 8895), (119, 8928), (123, 8952),

Gene: Hegedechwinu\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Hegedechwinu\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (19, 5118), (20, 5124), (26, 5163), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (103, 5703), (104, 5706), (105, 5721), (109, 5751), (114, 5805), (119, 5841),

Gene: HerculesXL\_9 Start: 5573, Stop: 6568, Start Num: 8

Candidate Starts for HerculesXL\_9:

(Start: 8 @5573 has 417 MA's), (19, 5684), (20, 5690), (23, 5711), (35, 5840), (36, 5846), (37, 5852), (41, 5888), (47, 5912), (49, 5933), (51, 5948), (75, 6122), (99, 6287), (103, 6302), (105, 6320), (114, 6416), (115, 6419),

Gene: Homura\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Homura\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: HotPotato\_6 Start: 5556, Stop: 6539, Start Num: 3

Candidate Starts for HotPotato\_6:

(Start: 3 @5556 has 9 MA's), (4, 5580), (13, 5658), (27, 5772), (37, 5862), (40, 5892), (44, 5913), (51, 5958), (92, 6243), (94, 6255), (102, 6309), (114, 6429),

Gene: HungryHenry\_6 Start: 4709, Stop: 5635, Start Num: 8

Candidate Starts for HungryHenry\_6:

(Start: 8 @4709 has 417 MA's), (20, 4826), (23, 4847), (27, 4883), (35, 4976), (36, 4982), (37, 4988), (47, 5048), (56, 5132), (76, 5246), (95, 5372), (105, 5438), (114, 5522), (118, 5549), (132, 5624),

Gene: Hurricane\_12 Start: 7958, Stop: 8881, Start Num: 8

Candidate Starts for Hurricane\_12:

(Start: 8 @7958 has 417 MA's), (17, 8048), (20, 8075), (24, 8102), (37, 8234), (41, 8270), (46, 8291), (51, 8330), (57, 8390), (85, 8570), (105, 8672), (107, 8684), (109, 8702), (114, 8768), (129, 8858),

Gene: Hyperbowlee\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Hyperbowlee\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Illumine\_13 Start: 7930, Stop: 8865, Start Num: 8

Candidate Starts for Illumine\_13:

(Start: 8 @7930 has 417 MA's), (17, 8020), (20, 8047), (35, 8194), (37, 8206), (38, 8218), (52, 8305), (69, 8419), (100, 8617), (107, 8656), (109, 8674), (114, 8740), (115, 8743), (119, 8776), (120, 8779), (123, 8800), (132, 8842),

Gene: Ilzat\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Ilzat\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Inky\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Inky\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Inventa\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Inventa\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: InvictusManeo\_11 Start: 8104, Stop: 9024, Start Num: 8

Candidate Starts for InvictusManeo\_11:

(Start: 8 @8104 has 417 MA's), (20, 8221), (24, 8248), (29, 8308), (31, 8344), (33, 8350), (37, 8380), (41, 8416), (52, 8479), (54, 8509), (114, 8914), (115, 8917), (119, 8950), (123, 8974),

Gene: Ioannes\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Ioannes\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Ixel\_8 Start: 5124, Stop: 6119, Start Num: 8

Candidate Starts for Ixel\_8:

(Start: 8 @5124 has 417 MA's), (17, 5214), (19, 5235), (20, 5241), (21, 5253), (23, 5262), (35, 5391), (36, 5397), (37, 5403), (41, 5439), (47, 5463), (51, 5499), (96, 5811), (99, 5838), (103, 5853), (108, 5895), (114, 5967),

Gene: JAWS\_13 Start: 7928, Stop: 8863, Start Num: 8

Candidate Starts for JAWS\_13:

(Start: 8 @7928 has 417 MA's), (17, 8018), (20, 8045), (35, 8192), (37, 8204), (38, 8216), (52, 8303), (62, 8387), (69, 8417), (100, 8615), (107, 8654), (114, 8738), (115, 8741), (119, 8774), (123, 8798), (132, 8840),

Gene: JF1\_14 Start: 9164, Stop: 10093, Start Num: 8

Candidate Starts for JF1\_14:

(Start: 8 @9164 has 417 MA's), (17, 9254), (19, 9275), (20, 9281), (24, 9308), (29, 9368), (40, 9470), (41, 9476), (51, 9536), (56, 9584), (57, 9596), (69, 9653), (78, 9716), (81, 9743), (98, 9836), (107, 9890), (109, 9908), (114, 9974), (123, 10034),

Gene: JacoRen57\_6 Start: 5476, Stop: 6447, Start Num: 5

Candidate Starts for JacoRen57\_6:

(Start: 5 @5476 has 4 MA's), (11, 5527), (20, 5611), (22, 5626), (27, 5668), (30, 5704), (32, 5725), (36, 5752), (39, 5773), (41, 5794), (50, 5842), (67, 5959), (72, 5986), (73, 5992), (75, 6007), (89, 6118), (97, 6169), (113, 6307), (117, 6337), (128, 6415),

Gene: JalFarm20\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for JalFarm20\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Janus167\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Janus167\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Jarvi\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Jarvi\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: JasonD\_8 Start: 4985, Stop: 5977, Start Num: 8

Candidate Starts for JasonD\_8:

(Start: 8 @4985 has 417 MA's), (20, 5102), (27, 5159), (29, 5192), (34, 5246), (37, 5264), (75, 5534), (103, 5714), (106, 5735), (108, 5756), (114, 5828), (118, 5855),

Gene: JasperRussell\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for JasperRussell\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Jayhawk\_13 Start: 7932, Stop: 8870, Start Num: 8

Candidate Starts for Jayhawk\_13:

(Start: 8 @7932 has 417 MA's), (17, 8022), (20, 8049), (35, 8196), (37, 8208), (38, 8220), (52, 8307), (62, 8391), (69, 8421), (100, 8619), (107, 8658), (114, 8742), (115, 8745), (119, 8778), (123, 8802), (132, 8844),

Gene: Jeckyll\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Jeckyll\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Jemerald\_8 Start: 6059, Stop: 7003, Start Num: 8

Candidate Starts for Jemerald\_8:

(2, 5966), (Start: 8 @6059 has 417 MA's), (14, 6122), (20, 6176), (21, 6188), (23, 6197), (33, 6308), (49, 6419), (51, 6434), (56, 6482), (72, 6569), (102, 6767), (106, 6791), (114, 6884), (115, 6887), (132, 6992),

Gene: Jenos\_8 Start: 5321, Stop: 6310, Start Num: 8

Candidate Starts for Jenos\_8:

(Start: 8 @5321 has 417 MA's), (20, 5438), (27, 5495), (29, 5528), (34, 5582), (37, 5600), (49, 5681), (56, 5744), (75, 5870), (103, 6050), (106, 6071), (108, 6092), (114, 6164), (115, 6167), (118, 6191),

Gene: Jerbirus\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Jerbirus\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: JeriBeth\_6 Start: 4708, Stop: 5634, Start Num: 7

Candidate Starts for JeriBeth\_6:

(Start: 7 @4708 has 10 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Jingles\_6 Start: 4718, Stop: 5671, Start Num: 8

Candidate Starts for Jingles\_6:

(Start: 8 @4718 has 417 MA's), (19, 4829), (20, 4835), (23, 4856), (27, 4892), (29, 4925), (51, 5093), (53, 5105), (72, 5240), (75, 5261), (114, 5543), (115, 5546), (118, 5570),

Gene: Job42\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Job42\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Joy99\_13 Start: 7900, Stop: 8835, Start Num: 8

Candidate Starts for Joy99\_13:

(Start: 8 @7900 has 417 MA's), (17, 7990), (20, 8017), (35, 8164), (37, 8176), (38, 8188), (52, 8275), (62, 8359), (69, 8389), (100, 8587), (107, 8626), (109, 8644), (114, 8710), (115, 8713), (119, 8746), (123, 8770), (132, 8812),

Gene: Juanyo\_6 Start: 5026, Stop: 5967, Start Num: 8

Candidate Starts for Juanyo\_6:

(Start: 8 @5026 has 417 MA's), (20, 5143), (21, 5155), (23, 5164), (27, 5200), (29, 5233), (47, 5365), (103, 5749), (106, 5770), (114, 5851), (134, 5956),

Gene: Judy\_6 Start: 5595, Stop: 6578, Start Num: 3

Candidate Starts for Judy\_6:

(Start: 3 @5595 has 9 MA's), (4, 5619), (13, 5697), (27, 5811), (40, 5931), (44, 5952), (51, 5997), (92, 6282), (94, 6294), (102, 6348), (114, 6468),

Gene: Juice456\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Juice456\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (19, 5119), (20, 5125), (26, 5164), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Juicer\_8 Start: 6059, Stop: 7003, Start Num: 8

Candidate Starts for Juicer\_8:

(2, 5966), (Start: 8 @6059 has 417 MA's), (14, 6122), (20, 6176), (21, 6188), (23, 6197), (33, 6308), (49, 6419), (51, 6434), (56, 6482), (72, 6569), (102, 6767), (106, 6791), (114, 6884), (115, 6887), (132, 6992),

Gene: Juliette\_14 Start: 9051, Stop: 9980, Start Num: 8

Candidate Starts for Juliette\_14:

(Start: 8 @9051 has 417 MA's), (17, 9141), (19, 9162), (20, 9168), (24, 9195), (29, 9255), (37, 9327), (40, 9357), (41, 9363), (69, 9540), (78, 9603), (81, 9630), (85, 9663), (98, 9723), (107, 9777), (114, 9861), (119, 9897), (123, 9921),

Gene: Kale\_6 Start: 4724, Stop: 5650, Start Num: 8

Candidate Starts for Kale\_6:

(Start: 8 @4724 has 417 MA's), (20, 4841), (23, 4862), (27, 4898), (35, 4991), (36, 4997), (37, 5003), (47, 5063), (56, 5147), (76, 5261), (95, 5387), (105, 5453), (114, 5537), (118, 5564), (132, 5639),

Gene: KannH\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for KannH\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Karkharias\_6 Start: 5552, Stop: 6535, Start Num: 3

Candidate Starts for Karkharias\_6:

(Start: 3 @5552 has 9 MA's), (4, 5576), (13, 5654), (27, 5768), (40, 5888), (44, 5909), (51, 5954), (92, 6239), (94, 6251), (102, 6305), (114, 6425),

Gene: KatChan\_8 Start: 5187, Stop: 6140, Start Num: 8

Candidate Starts for KatChan\_8:

(Start: 8 @5187 has 417 MA's), (19, 5298), (20, 5304), (23, 5325), (24, 5331), (27, 5361), (47, 5526), (51, 5562), (59, 5640), (72, 5715), (101, 5910), (114, 6018), (115, 6021), (128, 6111),

Gene: Kauala\_6 Start: 4718, Stop: 5671, Start Num: 8

Candidate Starts for Kauala\_6:

(Start: 8 @4718 has 417 MA's), (19, 4829), (20, 4835), (23, 4856), (27, 4892), (29, 4925), (30, 4943), (53, 5105), (72, 5240), (109, 5489), (114, 5543), (115, 5546), (118, 5570),

Gene: KayMoney\_6 Start: 5552, Stop: 6535, Start Num: 3

Candidate Starts for KayMoney\_6:

(Start: 3 @5552 has 9 MA's), (4, 5576), (13, 5654), (27, 5768), (40, 5888), (44, 5909), (51, 5954), (94, 6251), (102, 6305), (114, 6425),

Gene: Keelan\_37 Start: 14299, Stop: 15273, Start Num: 8

Candidate Starts for Keelan\_37:

(Start: 8 @14299 has 417 MA's), (15, 14371), (17, 14389), (20, 14416), (46, 14632), (72, 14818), (86, 14926), (87, 14953), (90, 14974), (97, 15022), (104, 15055), (105, 15070), (114, 15154), (115, 15157), (120, 15193),

Gene: Keshu\_12 Start: 7945, Stop: 8868, Start Num: 8

Candidate Starts for Keshu\_12:

(Start: 8 @7945 has 417 MA's), (17, 8035), (20, 8062), (24, 8089), (37, 8221), (41, 8257), (46, 8278), (51, 8317), (85, 8557), (105, 8659), (107, 8671), (109, 8689), (114, 8755), (129, 8845),

Gene: KiSi\_12 Start: 6805, Stop: 7728, Start Num: 8

Candidate Starts for KiSi\_12:

(Start: 8 @6805 has 417 MA's), (19, 6916), (20, 6922), (24, 6949), (35, 7069), (37, 7081), (38, 7093), (40, 7111), (52, 7180), (54, 7210), (56, 7225), (59, 7255), (69, 7294), (73, 7330), (107, 7531), (114, 7615), (115, 7618), (119, 7651), (123, 7675),

Gene: Kimberlium\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Kimberlium\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (19, 5119), (20, 5125), (26, 5164), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: KingJulien\_6 Start: 4705, Stop: 5697, Start Num: 8

Candidate Starts for KingJulien\_6:

(Start: 8 @4705 has 417 MA's), (20, 4822), (27, 4879), (34, 4966), (49, 5065), (72, 5233), (75, 5254), (76, 5260), (101, 5428), (105, 5452), (108, 5476), (114, 5548), (115, 5551),

Gene: Kingsley\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Kingsley\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (111, 5775), (114, 5805), (116, 5820), (119, 5841),

Gene: Klimt\_6 Start: 4709, Stop: 5635, Start Num: 7

Candidate Starts for Klimt\_6:

(Start: 7 @4709 has 10 MA's), (20, 4826), (23, 4847), (27, 4883), (35, 4976), (36, 4982), (37, 4988), (47, 5048), (56, 5132), (76, 5246), (95, 5372), (100, 5411), (105, 5438), (114, 5522), (118, 5549), (132, 5624),

Gene: Knox\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Knox\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Koji\_6 Start: 4718, Stop: 5686, Start Num: 8

Candidate Starts for Koji\_6:

(Start: 8 @4718 has 417 MA's), (19, 4829), (20, 4835), (23, 4856), (27, 4892), (30, 4943), (51, 5093), (53, 5105), (72, 5240), (75, 5261), (109, 5489), (114, 5543), (115, 5546),

Gene: Kratio\_10 Start: 7731, Stop: 8651, Start Num: 8

Candidate Starts for Kratio\_10:

(Start: 8 @7731 has 417 MA's), (20, 7848), (24, 7875), (29, 7935), (31, 7971), (33, 7977), (37, 8007), (41, 8043), (52, 8106), (54, 8136), (114, 8541), (115, 8544), (119, 8577), (123, 8601),

Gene: Kraw\_14 Start: 9084, Stop: 10013, Start Num: 8

Candidate Starts for Kraw\_14:

(Start: 8 @9084 has 417 MA's), (17, 9174), (19, 9195), (20, 9201), (24, 9228), (29, 9288), (40, 9390), (41, 9396), (51, 9456), (56, 9504), (57, 9516), (69, 9573), (78, 9636), (81, 9663), (98, 9756), (107, 9810), (109, 9828), (114, 9894), (119, 9930), (123, 9954),

Gene: Krueger\_12 Start: 6865, Stop: 7788, Start Num: 8

Candidate Starts for Krueger\_12:

(Start: 8 @6865 has 417 MA's), (20, 6982), (24, 7009), (35, 7129), (37, 7141), (38, 7153), (102, 7558), (107, 7591), (109, 7609), (114, 7675), (115, 7678), (119, 7711), (123, 7735), (128, 7762),

Gene: Kurt1\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Kurt1\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Larva\_11 Start: 7861, Stop: 8793, Start Num: 8

Candidate Starts for Larva\_11:

(Start: 8 @7861 has 417 MA's), (20, 7978), (24, 8005), (29, 8065), (31, 8101), (33, 8107), (37, 8137), (41, 8173), (52, 8236), (54, 8266), (114, 8671), (115, 8674), (123, 8731),

Gene: LastHope\_13 Start: 6959, Stop: 7888, Start Num: 8

Candidate Starts for LastHope\_13:

(Start: 8 @6959 has 417 MA's), (17, 7049), (20, 7076), (29, 7163), (35, 7223), (37, 7235), (38, 7247), (57, 7391), (62, 7418), (69, 7448), (102, 7652), (107, 7685), (114, 7769), (115, 7772), (119, 7805), (123, 7829), (132, 7871),

Gene: LaterM\_13 Start: 7898, Stop: 8833, Start Num: 8

Candidate Starts for LaterM\_13:

(Start: 8 @7898 has 417 MA's), (17, 7988), (20, 8015), (30, 8120), (35, 8162), (37, 8174), (38, 8186), (52, 8273), (69, 8387), (100, 8585), (107, 8624), (109, 8642), (114, 8708), (115, 8711), (119, 8744), (123, 8768), (132, 8810),

Gene: LeMond\_12 Start: 6805, Stop: 7728, Start Num: 8

Candidate Starts for LeMond\_12:

(Start: 8 @6805 has 417 MA's), (19, 6916), (20, 6922), (24, 6949), (35, 7069), (37, 7081), (38, 7093), (40, 7111), (52, 7180), (54, 7210), (56, 7225), (59, 7255), (69, 7294), (73, 7330), (107, 7531), (114, 7615), (115, 7618), (119, 7651), (123, 7675),

Gene: Lea83\_13 Start: 7945, Stop: 8868, Start Num: 8

Candidate Starts for Lea83\_13:

(Start: 8 @7945 has 417 MA's), (17, 8035), (20, 8062), (24, 8089), (37, 8221), (41, 8257), (46, 8278), (51, 8317), (57, 8377), (85, 8557), (105, 8659), (107, 8671), (109, 8689), (114, 8755), (129, 8845),

Gene: Leafus\_6 Start: 4852, Stop: 5844, Start Num: 8



Candidate Starts for Leafus\_6:

(Start: 8 @4852 has 417 MA's), (20, 4969), (27, 5026), (34, 5113), (37, 5131), (49, 5212), (72, 5380), (75, 5401), (76, 5407), (101, 5575), (105, 5599), (108, 5623), (114, 5695), (115, 5698),

Gene: Lebo14\_14 Start: 9178, Stop: 10107, Start Num: 8

Candidate Starts for Lebo14\_14:

(Start: 8 @9178 has 417 MA's), (17, 9268), (19, 9289), (20, 9295), (24, 9322), (29, 9382), (40, 9484), (41, 9490), (51, 9550), (57, 9610), (69, 9667), (78, 9730), (81, 9757), (98, 9850), (107, 9904), (109, 9922), (114, 9988), (123, 10048),

Gene: Leozinho\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Leozinho\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Leston\_11 Start: 8085, Stop: 9017, Start Num: 8

Candidate Starts for Leston\_11:

(Start: 8 @8085 has 417 MA's), (20, 8202), (24, 8229), (29, 8289), (31, 8325), (33, 8331), (41, 8397), (52, 8460), (78, 8637), (114, 8895), (115, 8898), (119, 8931), (123, 8955),

Gene: Librie\_8 Start: 5185, Stop: 6165, Start Num: 8

Candidate Starts for Librie\_8:

(Start: 8 @5185 has 417 MA's), (19, 5296), (20, 5302), (23, 5323), (27, 5359), (36, 5458), (41, 5500), (47, 5524), (60, 5641), (71, 5710), (72, 5713), (99, 5899), (103, 5914), (105, 5932), (114, 6016), (115, 6019), (137, 6160),

Gene: LilPharaoh\_9 Start: 7225, Stop: 8145, Start Num: 8

Candidate Starts for LilPharaoh\_9:

(Start: 8 @7225 has 417 MA's), (20, 7342), (24, 7369), (28, 7420), (35, 7489), (37, 7501), (41, 7537), (59, 7675), (62, 7684), (69, 7714), (83, 7813), (98, 7897), (102, 7918), (105, 7939), (107, 7951), (114, 8035), (119, 8071), (128, 8122), (129, 8125),

Gene: LilTerminator\_8 Start: 5197, Stop: 6177, Start Num: 8

Candidate Starts for LilTerminator\_8:

(Start: 8 @5197 has 417 MA's), (19, 5308), (20, 5314), (23, 5335), (36, 5470), (41, 5512), (47, 5536), (60, 5653), (71, 5722), (72, 5725), (99, 5911), (103, 5926), (105, 5944), (114, 6028), (115, 6031), (137, 6172),

Gene: LindNT\_13 Start: 7898, Stop: 8833, Start Num: 8

Candidate Starts for LindNT\_13:

(Start: 8 @7898 has 417 MA's), (17, 7988), (20, 8015), (35, 8162), (37, 8174), (38, 8186), (52, 8273), (69, 8387), (100, 8585), (107, 8624), (109, 8642), (114, 8708), (115, 8711), (119, 8744), (123, 8768), (132, 8810),

Gene: LittleShirley\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for LittleShirley\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Llorens\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Llorens\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Lorde\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Lorde\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Lovelyunicorn\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Lovelyunicorn\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Lucky3\_6 Start: 4803, Stop: 5765, Start Num: 8

Candidate Starts for Lucky3\_6:

(Start: 8 @4803 has 417 MA's), (19, 4914), (20, 4920), (23, 4941), (27, 4977), (30, 5028), (51, 5178), (53, 5190), (96, 5484), (109, 5574), (114, 5628), (115, 5631), (118, 5655),

Gene: Ludgate\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Ludgate\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (49, 5068), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Luna18\_8 Start: 5187, Stop: 6140, Start Num: 8

Candidate Starts for Luna18\_8:

(Start: 8 @5187 has 417 MA's), (19, 5298), (20, 5304), (23, 5325), (24, 5331), (27, 5361), (47, 5526), (51, 5562), (59, 5640), (72, 5715), (101, 5910), (114, 6018), (115, 6021), (128, 6111),

Gene: Lunahalos\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Lunahalos\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: MCubed\_6 Start: 4889, Stop: 5845, Start Num: 8

Candidate Starts for MCubed\_6:

(Start: 8 @4889 has 417 MA's), (16, 4976), (20, 5006), (21, 5018), (23, 5027), (29, 5096), (47, 5228), (56, 5312), (72, 5411), (75, 5432), (106, 5633), (114, 5714),

Gene: MacKat\_13 Start: 7951, Stop: 8886, Start Num: 8

Candidate Starts for MacKat\_13:

(Start: 8 @7951 has 417 MA's), (17, 8041), (20, 8068), (35, 8215), (37, 8227), (38, 8239), (52, 8326), (62, 8410), (69, 8440), (100, 8638), (107, 8677), (114, 8761), (115, 8764), (119, 8797), (123, 8821), (132, 8863),

Gene: MacnCheese\_13 Start: 8170, Stop: 9093, Start Num: 8

Candidate Starts for MacnCheese\_13:

(Start: 8 @8170 has 417 MA's), (17, 8260), (20, 8287), (24, 8314), (37, 8446), (41, 8482), (46, 8503), (51, 8542), (62, 8629), (85, 8782), (107, 8896), (109, 8914), (114, 8980), (119, 9016), (129, 9070),

Gene: Maco6\_7 Start: 5705, Stop: 6694, Start Num: 5

Candidate Starts for Maco6\_7:

(Start: 5 @5705 has 4 MA's), (13, 5780), (19, 5831), (20, 5837), (27, 5894), (32, 5951), (36, 5978), (50, 6068), (67, 6185), (68, 6191), (82, 6275), (97, 6395), (106, 6446), (113, 6533), (122, 6596),

Gene: Madiba\_7 Start: 5006, Stop: 5914, Start Num: 8

Candidate Starts for Madiba\_7:

(Start: 8 @5006 has 417 MA's), (17, 5096), (18, 5099), (20, 5123), (27, 5180), (29, 5210), (38, 5294), (54, 5411), (74, 5543), (81, 5585), (103, 5702), (104, 5705), (109, 5750), (114, 5804), (116, 5819), (119, 5840),

Gene: MaeLinda\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for MaeLinda\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Malthus\_14 Start: 9084, Stop: 10013, Start Num: 8

Candidate Starts for Malthus\_14:

(Start: 8 @9084 has 417 MA's), (17, 9174), (19, 9195), (20, 9201), (24, 9228), (29, 9288), (40, 9390), (41, 9396), (51, 9456), (56, 9504), (57, 9516), (69, 9573), (78, 9636), (81, 9663), (98, 9756), (107, 9810), (109, 9828), (114, 9894), (119, 9930), (123, 9954),

Gene: ManRay\_6 Start: 4722, Stop: 5648, Start Num: 8

Candidate Starts for ManRay\_6:

(Start: 8 @4722 has 417 MA's), (20, 4839), (23, 4860), (27, 4896), (35, 4989), (36, 4995), (37, 5001), (47, 5061), (56, 5145), (76, 5259), (95, 5385), (105, 5451), (114, 5535), (118, 5562), (132, 5637),

Gene: Mandalorian\_6 Start: 5021, Stop: 5977, Start Num: 8

Candidate Starts for Mandalorian\_6:

(Start: 8 @5021 has 417 MA's), (20, 5138), (21, 5150), (23, 5159), (24, 5165), (27, 5195), (51, 5396), (56, 5444), (72, 5543), (96, 5702), (100, 5735), (103, 5744), (114, 5846), (115, 5849),

Gene: Marcoliusprime\_9 Start: 5947, Stop: 6864, Start Num: 8

Candidate Starts for Marcoliusprime\_9:

(Start: 8 @5947 has 417 MA's), (19, 6058), (20, 6064), (24, 6091), (37, 6223), (40, 6253), (41, 6259), (57, 6379), (85, 6559), (105, 6661), (114, 6757), (119, 6793), (121, 6802), (129, 6847),

Gene: MarkPhew\_12 Start: 6704, Stop: 7627, Start Num: 8

Candidate Starts for MarkPhew\_12:

(Start: 8 @6704 has 417 MA's), (19, 6815), (20, 6821), (24, 6848), (35, 6968), (37, 6980), (38, 6992), (52, 7079), (54, 7109), (73, 7229), (107, 7430), (109, 7448), (114, 7514), (115, 7517), (119, 7550), (121, 7559), (123, 7574),

Gene: Marker\_7 Start: 5006, Stop: 5914, Start Num: 8

Candidate Starts for Marker\_7:

(Start: 8 @5006 has 417 MA's), (17, 5096), (18, 5099), (20, 5123), (27, 5180), (29, 5210), (38, 5294), (54, 5411), (74, 5543), (81, 5585), (103, 5702), (104, 5705), (109, 5750), (114, 5804), (116, 5819), (119, 5840),

Gene: Marshawn\_14 Start: 7351, Stop: 8274, Start Num: 8

Candidate Starts for Marshawn\_14:

(Start: 8 @7351 has 417 MA's), (17, 7441), (19, 7462), (20, 7468), (24, 7495), (35, 7615), (37, 7627), (38, 7639), (52, 7726), (54, 7756), (100, 8038), (107, 8077), (109, 8095), (114, 8161), (115, 8164),

(119, 8197), (121, 8206), (123, 8221),

Gene: Martin\_7 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Martin\_7:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: McGalleon\_7 Start: 5422, Stop: 6414, Start Num: 8

Candidate Starts for McGalleon\_7:

(Start: 8 @5422 has 417 MA's), (20, 5539), (27, 5596), (29, 5629), (34, 5683), (37, 5701), (75, 5971), (103, 6151), (106, 6172), (108, 6193), (114, 6265), (115, 6268), (118, 6292), (137, 6409),

Gene: McMater\_13 Start: 7012, Stop: 7941, Start Num: 8

Candidate Starts for McMater\_13:

(Start: 8 @7012 has 417 MA's), (17, 7102), (20, 7129), (24, 7156), (35, 7276), (37, 7288), (52, 7387), (62, 7471), (100, 7699), (107, 7738), (109, 7756), (114, 7822), (115, 7825), (123, 7882), (126, 7903),

Gene: Mdavu\_9 Start: 7213, Stop: 8133, Start Num: 8

Candidate Starts for Mdavu\_9:

(Start: 8 @7213 has 417 MA's), (20, 7330), (24, 7357), (28, 7408), (35, 7477), (37, 7489), (41, 7525), (59, 7663), (62, 7672), (69, 7702), (83, 7801), (98, 7885), (102, 7906), (105, 7927), (107, 7939), (114, 8023), (119, 8059), (128, 8110), (129, 8113),

Gene: MeaningOfLife\_13 Start: 7904, Stop: 8842, Start Num: 8

Candidate Starts for MeaningOfLife\_13:

(Start: 8 @7904 has 417 MA's), (17, 7994), (20, 8021), (35, 8168), (37, 8180), (38, 8192), (52, 8279), (62, 8363), (69, 8393), (100, 8591), (107, 8630), (114, 8714), (115, 8717), (119, 8750), (123, 8774), (132, 8816),

Gene: Megsy\_13 Start: 7901, Stop: 8836, Start Num: 8

Candidate Starts for Megsy\_13:

(Start: 8 @7901 has 417 MA's), (17, 7991), (20, 8018), (35, 8165), (37, 8177), (38, 8189), (52, 8276), (69, 8390), (100, 8588), (107, 8627), (109, 8645), (114, 8711), (115, 8714), (119, 8747), (123, 8771), (132, 8813),

Gene: Mercedes\_7 Start: 4939, Stop: 5892, Start Num: 8

Candidate Starts for Mercedes\_7:

(Start: 8 @4939 has 417 MA's), (19, 5050), (20, 5056), (23, 5077), (24, 5083), (27, 5113), (30, 5164), (43, 5266), (58, 5389), (72, 5467), (101, 5662), (105, 5686), (114, 5770), (115, 5773),

Gene: Milly\_9 Start: 5947, Stop: 6864, Start Num: 8

Candidate Starts for Milly\_9:

(Start: 8 @5947 has 417 MA's), (19, 6058), (20, 6064), (24, 6091), (30, 6169), (37, 6223), (40, 6253), (41, 6259), (57, 6379), (85, 6559), (105, 6661), (114, 6757), (119, 6793), (121, 6802), (129, 6847),

Gene: MillyPhilly\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for MillyPhilly\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Miryou\_11 Start: 7954, Stop: 8886, Start Num: 8

Candidate Starts for Miryou\_11:

(Start: 8 @7954 has 417 MA's), (20, 8071), (24, 8098), (29, 8158), (31, 8194), (33, 8200), (41, 8266), (52, 8329), (54, 8359), (78, 8506), (114, 8764), (115, 8767), (119, 8800), (123, 8824),

Gene: Misha28\_7 Start: 5011, Stop: 5919, Start Num: 8

Candidate Starts for Misha28\_7:

(Start: 8 @5011 has 417 MA's), (17, 5101), (18, 5104), (20, 5128), (27, 5185), (29, 5215), (38, 5299), (51, 5383), (54, 5416), (74, 5548), (81, 5590), (103, 5707), (104, 5710), (109, 5755), (114, 5809), (116, 5824), (119, 5845),

Gene: MissDaisy\_14 Start: 8950, Stop: 9879, Start Num: 8

Candidate Starts for MissDaisy\_14:

(Start: 8 @8950 has 417 MA's), (17, 9040), (19, 9061), (20, 9067), (24, 9094), (29, 9154), (40, 9256), (41, 9262), (57, 9382), (69, 9439), (81, 9529), (98, 9622), (107, 9676), (109, 9694), (114, 9760), (123, 9820),

Gene: Mitti\_14 Start: 9088, Stop: 10017, Start Num: 8

Candidate Starts for Mitti\_14:

(Start: 8 @9088 has 417 MA's), (17, 9178), (19, 9199), (20, 9205), (24, 9232), (29, 9292), (40, 9394), (41, 9400), (51, 9460), (57, 9520), (69, 9577), (78, 9640), (81, 9667), (98, 9760), (107, 9814), (109, 9832), (114, 9898), (123, 9958),

Gene: MonChoix\_6 Start: 4728, Stop: 5654, Start Num: 8

Candidate Starts for MonChoix\_6:

(Start: 8 @4728 has 417 MA's), (20, 4845), (23, 4866), (27, 4902), (35, 4995), (36, 5001), (37, 5007), (47, 5067), (56, 5151), (95, 5391), (105, 5457), (114, 5541), (118, 5568), (132, 5643),

Gene: Morrigan\_8 Start: 6094, Stop: 7047, Start Num: 8

Candidate Starts for Morrigan\_8:

(Start: 8 @6094 has 417 MA's), (19, 6205), (20, 6211), (23, 6232), (24, 6238), (27, 6268), (47, 6433), (51, 6469), (59, 6547), (72, 6622), (101, 6817), (106, 6844), (108, 6865), (114, 6925), (115, 6928), (128, 7018),

Gene: Mova\_7 Start: 5009, Stop: 5917, Start Num: 8

Candidate Starts for Mova\_7:

(Start: 8 @5009 has 417 MA's), (17, 5099), (18, 5102), (20, 5126), (27, 5183), (29, 5213), (38, 5297), (54, 5414), (74, 5546), (81, 5588), (103, 5705), (104, 5708), (109, 5753), (114, 5807), (116, 5822), (119, 5843),

Gene: Mozy\_7 Start: 5004, Stop: 5912, Start Num: 8

Candidate Starts for Mozy\_7:

(Start: 8 @5004 has 417 MA's), (19, 5115), (20, 5121), (27, 5178), (29, 5208), (38, 5292), (51, 5376), (54, 5409), (72, 5523), (74, 5541), (103, 5700), (104, 5703), (105, 5718), (109, 5748), (111, 5772), (114, 5802),

Gene: MrWorldwide\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for MrWorldwide\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Muddy\_9 Start: 6658, Stop: 7647, Start Num: 5

Candidate Starts for Muddy\_9:

(Start: 5 @6658 has 4 MA's), (13, 6733), (19, 6784), (20, 6790), (27, 6847), (32, 6904), (36, 6931), (50, 7021), (67, 7138), (68, 7144), (82, 7228), (97, 7348), (106, 7399), (113, 7486), (122, 7549),

Gene: Mufasa\_9 Start: 5933, Stop: 6850, Start Num: 8

Candidate Starts for Mufasa\_9:

(Start: 8 @5933 has 417 MA's), (19, 6044), (20, 6050), (24, 6077), (30, 6155), (37, 6209), (40, 6239), (41, 6245), (57, 6365), (85, 6545), (102, 6626), (105, 6647), (107, 6659), (114, 6743), (119, 6779), (121, 6788), (129, 6833),

Gene: MulchExplorer\_8 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for MulchExplorer\_8:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (19, 5119), (20, 5125), (26, 5164), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Murucutumbu\_13 Start: 7891, Stop: 8826, Start Num: 8

Candidate Starts for Murucutumbu\_13:

(Start: 8 @7891 has 417 MA's), (17, 7981), (20, 8008), (30, 8113), (35, 8155), (37, 8167), (38, 8179), (52, 8266), (69, 8380), (100, 8578), (107, 8617), (109, 8635), (114, 8701), (115, 8704), (119, 8737), (123, 8761), (132, 8803),

Gene: Mynx\_13 Start: 7954, Stop: 8889, Start Num: 8

Candidate Starts for Mynx\_13:

(Start: 8 @7954 has 417 MA's), (17, 8044), (20, 8071), (35, 8218), (37, 8230), (38, 8242), (52, 8329), (62, 8413), (69, 8443), (100, 8641), (107, 8680), (114, 8764), (115, 8767), (119, 8800), (123, 8824), (132, 8866),

Gene: Nagem\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Nagem\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (49, 5068), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Nattles\_6 Start: 4713, Stop: 5639, Start Num: 7

Candidate Starts for Nattles\_6:

(Start: 7 @4713 has 10 MA's), (20, 4830), (23, 4851), (27, 4887), (35, 4980), (36, 4986), (37, 4992), (47, 5052), (56, 5136), (76, 5250), (95, 5376), (105, 5442), (114, 5526), (118, 5553), (132, 5628),

Gene: Nebulous\_8 Start: 5916, Stop: 6893, Start Num: 8

Candidate Starts for Nebulous\_8:

(Start: 8 @5916 has 417 MA's), (14, 5979), (17, 6006), (19, 6027), (20, 6033), (23, 6054), (47, 6255), (60, 6372), (63, 6381), (72, 6444), (78, 6477), (84, 6525), (99, 6630), (103, 6645), (105, 6663), (114, 6747), (115, 6750), (118, 6774),

Gene: Neferthena\_8 Start: 5927, Stop: 6904, Start Num: 8

Candidate Starts for Neferthena\_8:

(Start: 8 @5927 has 417 MA's), (17, 6017), (19, 6038), (20, 6044), (23, 6065), (47, 6266), (51, 6302), (60, 6383), (72, 6455), (78, 6488), (84, 6536), (99, 6641), (103, 6656), (105, 6674), (114, 6758), (115, 6761), (118, 6785), (135, 6872),

Gene: Neighly\_11 Start: 7860, Stop: 8792, Start Num: 8

Candidate Starts for Neighly\_11:

(Start: 8 @7860 has 417 MA's), (20, 7977), (24, 8004), (29, 8064), (31, 8100), (33, 8106), (37, 8136), (41, 8172), (52, 8235), (54, 8265), (114, 8670), (115, 8673), (123, 8730),

Gene: Nibb\_12 Start: 6846, Stop: 7769, Start Num: 8

Candidate Starts for Nibb\_12:

(Start: 8 @6846 has 417 MA's), (17, 6936), (19, 6957), (20, 6963), (24, 6990), (35, 7110), (37, 7122), (38, 7134), (52, 7221), (54, 7251), (69, 7335), (73, 7371), (107, 7572), (109, 7590), (114, 7656), (115, 7659), (119, 7692), (121, 7701), (123, 7716),

Gene: NickSell\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for NickSell\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Nikao\_9 Start: 7225, Stop: 8145, Start Num: 8

Candidate Starts for Nikao\_9:

(Start: 8 @7225 has 417 MA's), (20, 7342), (24, 7369), (28, 7420), (35, 7489), (37, 7501), (41, 7537), (59, 7675), (62, 7684), (69, 7714), (83, 7813), (98, 7897), (102, 7918), (105, 7939), (107, 7951), (114, 8035), (119, 8071), (128, 8122), (129, 8125),

Gene: Niklas\_13 Start: 7012, Stop: 7941, Start Num: 8

Candidate Starts for Niklas\_13:

(Start: 8 @7012 has 417 MA's), (17, 7102), (20, 7129), (24, 7156), (35, 7276), (37, 7288), (52, 7387), (62, 7471), (100, 7699), (107, 7738), (109, 7756), (114, 7822), (115, 7825), (123, 7882),

Gene: NoShow\_7 Start: 5701, Stop: 6669, Start Num: 5

Candidate Starts for NoShow\_7:

(Start: 5 @5701 has 4 MA's), (11, 5752), (17, 5809), (18, 5812), (19, 5830), (20, 5836), (22, 5851), (27, 5893), (32, 5950), (36, 5977), (39, 5998), (48, 6046), (67, 6184), (72, 6211), (75, 6232), (97, 6394), (100, 6415), (113, 6532), (117, 6562),

Gene: November\_11 Start: 7663, Stop: 8595, Start Num: 8

Candidate Starts for November\_11:

(Start: 8 @7663 has 417 MA's), (17, 7753), (20, 7780), (35, 7927), (37, 7939), (43, 7987), (54, 8068), (83, 8251), (107, 8389), (109, 8407), (114, 8473), (115, 8476), (119, 8509), (123, 8533), (128, 8560),

Gene: Nucci\_6 Start: 5009, Stop: 5965, Start Num: 8

Candidate Starts for Nucci\_6:

(Start: 8 @5009 has 417 MA's), (20, 5126), (21, 5138), (23, 5147), (24, 5153), (27, 5183), (51, 5384), (56, 5432), (72, 5531), (96, 5690), (100, 5723), (103, 5732), (114, 5834), (115, 5837),

Gene: Nutello\_9 Start: 7225, Stop: 8145, Start Num: 8

Candidate Starts for Nutello\_9:

(Start: 8 @7225 has 417 MA's), (20, 7342), (24, 7369), (28, 7420), (35, 7489), (37, 7501), (41, 7537), (59, 7675), (62, 7684), (69, 7714), (83, 7813), (98, 7897), (102, 7918), (105, 7939), (107, 7951), (114, 8035), (119, 8071), (128, 8122), (129, 8125),

Gene: Oats\_6 Start: 4722, Stop: 5648, Start Num: 8

Candidate Starts for Oats\_6:

(Start: 8 @4722 has 417 MA's), (20, 4839), (23, 4860), (27, 4896), (35, 4989), (36, 4995), (37, 5001), (47, 5061), (56, 5145), (76, 5259), (95, 5385), (105, 5451), (114, 5535), (118, 5562), (132, 5637),

Gene: OkiRoe\_11 Start: 7955, Stop: 8887, Start Num: 8

Candidate Starts for OkiRoe\_11:

(Start: 8 @7955 has 417 MA's), (20, 8072), (24, 8099), (29, 8159), (31, 8195), (33, 8201), (41, 8267), (52, 8330), (54, 8360), (78, 8507), (114, 8765), (115, 8768), (119, 8801), (123, 8825),

Gene: Oksu\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Oksu\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: OldNelly\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for OldNelly\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: OmniCritical\_14 Start: 9075, Stop: 10004, Start Num: 8

Candidate Starts for OmniCritical\_14:

(Start: 8 @9075 has 417 MA's), (17, 9165), (19, 9186), (20, 9192), (24, 9219), (29, 9279), (40, 9381), (41, 9387), (51, 9447), (57, 9507), (69, 9564), (78, 9627), (81, 9654), (98, 9747), (107, 9801), (109, 9819), (114, 9885), (123, 9945),

Gene: Omnicron\_11 Start: 6973, Stop: 7905, Start Num: 8

Candidate Starts for Omnicron\_11:

(Start: 8 @6973 has 417 MA's), (20, 7090), (24, 7117), (29, 7177), (31, 7213), (33, 7219), (37, 7249), (41, 7285), (52, 7348), (55, 7390), (69, 7462), (78, 7525), (79, 7534), (105, 7687), (114, 7783), (115, 7786), (119, 7819), (123, 7843), (130, 7876),

Gene: Oscar\_12 Start: 6806, Stop: 7729, Start Num: 8

Candidate Starts for Oscar\_12:

(Start: 8 @6806 has 417 MA's), (19, 6917), (20, 6923), (24, 6950), (35, 7070), (37, 7082), (38, 7094), (52, 7181), (54, 7211), (56, 7226), (59, 7256), (69, 7295), (73, 7331), (107, 7532), (114, 7616), (115, 7619), (119, 7652), (123, 7676),

Gene: OwlsT2W\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for OwlsT2W\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Oxtober96\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Oxtober96\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: PSirce\_5 Start: 4885, Stop: 5832, Start Num: 8

Candidate Starts for PSirce\_5:

(Start: 8 @4885 has 417 MA's), (16, 4972), (20, 5002), (21, 5014), (23, 5023), (27, 5059), (47, 5224), (56, 5308), (72, 5407), (106, 5629), (114, 5710),

Gene: Padfoot\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Padfoot\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Padpat\_13 Start: 7934, Stop: 8869, Start Num: 8



Candidate Starts for Padpat\_13:

(Start: 8 @7934 has 417 MA's), (17, 8024), (20, 8051), (35, 8198), (37, 8210), (38, 8222), (52, 8309), (62, 8393), (69, 8423), (100, 8621), (107, 8660), (114, 8744), (115, 8747), (119, 8780), (123, 8804), (132, 8846),

Gene: Pajaza\_6 Start: 5146, Stop: 6075, Start Num: 8

Candidate Starts for Pajaza\_6:

(Start: 8 @5146 has 417 MA's), (20, 5263), (23, 5284), (24, 5290), (27, 5320), (34, 5401), (35, 5407), (36, 5413), (37, 5419), (47, 5479), (56, 5563), (72, 5650), (75, 5671), (96, 5809), (109, 5899), (114, 5965), (118, 5992),

Gene: Paola\_11 Start: 7955, Stop: 8887, Start Num: 8

Candidate Starts for Paola\_11:

(Start: 8 @7955 has 417 MA's), (20, 8072), (24, 8099), (29, 8159), (31, 8195), (33, 8201), (41, 8267), (52, 8330), (78, 8507), (114, 8765), (115, 8768), (119, 8801), (123, 8825),

Gene: Papafritta\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Papafritta\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: ParleG\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for ParleG\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Patt\_14 Start: 8926, Stop: 9855, Start Num: 8

Candidate Starts for Patt\_14:

(Start: 8 @8926 has 417 MA's), (17, 9016), (19, 9037), (20, 9043), (24, 9070), (29, 9130), (40, 9232), (41, 9238), (57, 9358), (69, 9415), (81, 9505), (98, 9598), (107, 9652), (109, 9670), (114, 9736), (123, 9796),

Gene: Peanam\_13 Start: 7012, Stop: 7941, Start Num: 8

Candidate Starts for Peanam\_13:

(Start: 8 @7012 has 417 MA's), (17, 7102), (20, 7129), (24, 7156), (35, 7276), (37, 7288), (52, 7387), (62, 7471), (100, 7699), (107, 7738), (109, 7756), (114, 7822), (115, 7825), (123, 7882),

Gene: Peas\_6 Start: 5556, Stop: 6539, Start Num: 3

Candidate Starts for Peas\_6:

(Start: 3 @5556 has 9 MA's), (4, 5580), (13, 5658), (27, 5772), (37, 5862), (40, 5892), (44, 5913), (51, 5958), (92, 6243), (94, 6255), (102, 6309), (114, 6429),

Gene: Peel\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Peel\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Peep\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Peep\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (49, 5068), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: PeggyLeg03\_6 Start: 5596, Stop: 6579, Start Num: 3

Candidate Starts for PeggyLeg03\_6:

(Start: 3 @5596 has 9 MA's), (4, 5620), (13, 5698), (27, 5812), (40, 5932), (44, 5953), (51, 5998), (92, 6283), (94, 6295), (102, 6349), (114, 6469),

Gene: Peppino\_6 Start: 4705, Stop: 5697, Start Num: 8

Candidate Starts for Peppino\_6:

(Start: 8 @4705 has 417 MA's), (20, 4822), (27, 4879), (34, 4966), (49, 5065), (72, 5233), (75, 5254), (76, 5260), (101, 5428), (105, 5452), (108, 5476), (114, 5548), (115, 5551),

Gene: Phanita\_5 Start: 4886, Stop: 5827, Start Num: 8

Candidate Starts for Phanita\_5:

(Start: 8 @4886 has 417 MA's), (16, 4973), (20, 5003), (21, 5015), (23, 5024), (29, 5093), (47, 5225), (56, 5309), (72, 5408), (75, 5429), (106, 5630), (114, 5711), (136, 5816),

Gene: Pharb\_12 Start: 7787, Stop: 8716, Start Num: 8

Candidate Starts for Pharb\_12:

(Start: 8 @7787 has 417 MA's), (17, 7877), (20, 7904), (24, 7931), (37, 8063), (41, 8099), (51, 8159), (57, 8219), (59, 8237), (85, 8399), (105, 8501), (107, 8513), (109, 8531), (114, 8597), (129, 8687),

Gene: PhelpsODU\_12 Start: 6920, Stop: 7843, Start Num: 8

Candidate Starts for PhelpsODU\_12:

(Start: 8 @6920 has 417 MA's), (10, 6953), (20, 7037), (35, 7184), (38, 7208), (46, 7253), (54, 7325), (56, 7340), (57, 7352), (62, 7379), (83, 7508), (102, 7613), (107, 7646), (109, 7664), (114, 7730), (115, 7733), (119, 7766),

Gene: Pherbot\_6 Start: 4718, Stop: 5668, Start Num: 8

Candidate Starts for Pherbot\_6:

(Start: 8 @4718 has 417 MA's), (19, 4829), (20, 4835), (23, 4856), (29, 4925), (30, 4943), (51, 5093), (53, 5105), (71, 5237), (72, 5240), (109, 5489), (114, 5543), (115, 5546), (118, 5570),

Gene: Pherferi\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Pherferi\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Phiderman\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Phiderman\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Phireproof\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Phireproof\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Phrank\_12 Start: 6869, Stop: 7792, Start Num: 8

Candidate Starts for Phrank\_12:

(Start: 8 @6869 has 417 MA's), (20, 6986), (24, 7013), (33, 7115), (35, 7133), (37, 7145), (38, 7157), (57, 7301), (102, 7562), (107, 7595), (109, 7613), (114, 7679), (115, 7682), (119, 7715), (128, 7766),

Gene: PhredFlintston\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for PhredFlintston\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Phriends\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Phriends\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Piatt\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Piatt\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Pikmin\_6 Start: 5146, Stop: 6075, Start Num: 8

Candidate Starts for Pikmin\_6:

(Start: 8 @5146 has 417 MA's), (20, 5263), (23, 5284), (24, 5290), (27, 5320), (34, 5401), (35, 5407), (36, 5413), (37, 5419), (47, 5479), (56, 5563), (72, 5650), (75, 5671), (76, 5677), (96, 5809), (109, 5899), (114, 5965), (118, 5992),

Gene: Piper2020\_7 Start: 5010, Stop: 5918, Start Num: 8

Candidate Starts for Piper2020\_7:

(Start: 8 @5010 has 417 MA's), (17, 5100), (18, 5103), (20, 5127), (27, 5184), (29, 5214), (38, 5298), (54, 5415), (74, 5547), (81, 5589), (103, 5706), (104, 5709), (109, 5754), (114, 5808), (116, 5823), (119, 5844),

Gene: Pixie\_12 Start: 7697, Stop: 8620, Start Num: 8

Candidate Starts for Pixie\_12:

(Start: 8 @7697 has 417 MA's), (17, 7787), (20, 7814), (24, 7841), (37, 7973), (41, 8009), (46, 8030), (51, 8069), (57, 8129), (85, 8309), (105, 8411), (107, 8423), (109, 8441), (114, 8507), (129, 8597),

Gene: Plumbus\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Plumbus\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (19, 5119), (20, 5125), (26, 5164), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Pocket\_6 Start: 4707, Stop: 5633, Start Num: 8

Candidate Starts for Pocket\_6:

(Start: 8 @4707 has 417 MA's), (20, 4824), (23, 4845), (27, 4881), (35, 4974), (36, 4980), (37, 4986), (47, 5046), (56, 5130), (76, 5244), (95, 5370), (105, 5436), (114, 5520), (118, 5547), (132, 5622),

Gene: Pokerus\_12 Start: 7888, Stop: 8823, Start Num: 8

Candidate Starts for Pokerus\_12:

(Start: 8 @7888 has 417 MA's), (17, 7978), (20, 8005), (35, 8152), (37, 8164), (38, 8176), (52, 8263), (62, 8347), (69, 8377), (100, 8575), (107, 8614), (114, 8698), (115, 8701), (119, 8734), (123, 8758), (132, 8800),

Gene: Pollywog\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Pollywog\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820),

(119, 5841),

Gene: PrincePhergus\_6 Start: 4719, Stop: 5669, Start Num: 8

Candidate Starts for PrincePhergus\_6:

(Start: 8 @4719 has 417 MA's), (20, 4836), (23, 4857), (27, 4893), (29, 4926), (30, 4944), (51, 5094), (53, 5106), (72, 5241), (109, 5490), (114, 5544), (115, 5547), (118, 5571),

Gene: Prithvi\_13 Start: 7898, Stop: 8833, Start Num: 8

Candidate Starts for Prithvi\_13:

(Start: 8 @7898 has 417 MA's), (17, 7988), (20, 8015), (35, 8162), (37, 8174), (38, 8186), (52, 8273), (69, 8387), (100, 8585), (107, 8624), (109, 8642), (114, 8708), (115, 8711), (119, 8744), (123, 8768), (132, 8810),

Gene: Psycho\_11 Start: 7991, Stop: 8923, Start Num: 8

Candidate Starts for Psycho\_11:

(Start: 8 @7991 has 417 MA's), (20, 8108), (24, 8135), (29, 8195), (31, 8231), (33, 8237), (37, 8267), (41, 8303), (52, 8366), (54, 8396), (114, 8801), (115, 8804), (123, 8861),

Gene: Pucara\_6 Start: 5555, Stop: 6538, Start Num: 3

Candidate Starts for Pucara\_6:

(Start: 3 @5555 has 9 MA's), (4, 5579), (13, 5657), (27, 5771), (40, 5891), (44, 5912), (51, 5957), (94, 6254), (102, 6308), (114, 6428),

Gene: PuppyEggo\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for PuppyEggo\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: QuadZero\_8 Start: 5197, Stop: 6177, Start Num: 8

Candidate Starts for QuadZero\_8:

(Start: 8 @5197 has 417 MA's), (19, 5308), (20, 5314), (23, 5335), (30, 5422), (36, 5470), (41, 5512), (47, 5536), (60, 5653), (71, 5722), (72, 5725), (99, 5911), (103, 5926), (105, 5944), (114, 6028), (115, 6031), (137, 6172),

Gene: Quartz\_6 Start: 5021, Stop: 5974, Start Num: 8

Candidate Starts for Quartz\_6:

(Start: 8 @5021 has 417 MA's), (20, 5138), (21, 5150), (23, 5159), (24, 5165), (27, 5195), (51, 5396), (56, 5444), (72, 5543), (96, 5702), (100, 5735), (103, 5744), (114, 5846), (115, 5849),

Gene: Quico\_7 Start: 5002, Stop: 5910, Start Num: 8

Candidate Starts for Quico\_7:

(Start: 8 @5002 has 417 MA's), (17, 5092), (18, 5095), (20, 5119), (27, 5176), (29, 5206), (38, 5290), (54, 5407), (74, 5539), (81, 5581), (103, 5698), (104, 5701), (109, 5746), (114, 5800), (116, 5815), (119, 5836),

Gene: QuincyRose\_12 Start: 7951, Stop: 8886, Start Num: 8

Candidate Starts for QuincyRose\_12:

(Start: 8 @7951 has 417 MA's), (17, 8041), (20, 8068), (35, 8215), (37, 8227), (38, 8239), (52, 8326), (62, 8410), (69, 8440), (100, 8638), (107, 8677), (114, 8761), (115, 8764), (119, 8797), (123, 8821), (132, 8863),

Gene: Raccoon\_6 Start: 4711, Stop: 5691, Start Num: 8

Candidate Starts for Raccoon\_6:

(Start: 8 @4711 has 417 MA's), (20, 4828), (29, 4918), (30, 4936), (34, 4972), (49, 5071), (56, 5134), (72, 5239), (75, 5260), (76, 5266), (108, 5482), (114, 5542), (118, 5569),

Gene: Ramen\_13 Start: 7931, Stop: 8869, Start Num: 8

Candidate Starts for Ramen\_13:

(Start: 8 @7931 has 417 MA's), (17, 8021), (20, 8048), (35, 8195), (37, 8207), (38, 8219), (52, 8306), (62, 8390), (69, 8420), (100, 8618), (107, 8657), (114, 8741), (115, 8744), (119, 8777), (123, 8801), (132, 8843),

Gene: Ramsey\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Ramsey\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Rando14\_11 Start: 6998, Stop: 7930, Start Num: 8

Candidate Starts for Rando14\_11:

(Start: 8 @6998 has 417 MA's), (20, 7115), (24, 7142), (29, 7202), (31, 7238), (33, 7244), (37, 7274), (41, 7310), (52, 7373), (69, 7487), (78, 7550), (105, 7712), (114, 7808), (115, 7811), (119, 7844), (123, 7868),

Gene: Rapheph\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Rapheph\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Raptor\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Raptor\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Rapunzel97\_13 Start: 7932, Stop: 8870, Start Num: 8

Candidate Starts for Rapunzel97\_13:

(Start: 8 @7932 has 417 MA's), (17, 8022), (20, 8049), (35, 8196), (37, 8208), (38, 8220), (52, 8307), (62, 8391), (69, 8421), (100, 8619), (107, 8658), (114, 8742), (115, 8745), (119, 8778), (123, 8802), (132, 8844),

Gene: Redfield\_6 Start: 4713, Stop: 5705, Start Num: 8

Candidate Starts for Redfield\_6:

(Start: 8 @4713 has 417 MA's), (20, 4830), (27, 4887), (34, 4974), (49, 5073), (72, 5241), (75, 5262), (76, 5268), (101, 5436), (105, 5460), (108, 5484), (114, 5556), (115, 5559),

Gene: RenegadeRaider\_6 Start: 4718, Stop: 5668, Start Num: 8

Candidate Starts for RenegadeRaider\_6:

(Start: 8 @4718 has 417 MA's), (19, 4829), (20, 4835), (23, 4856), (27, 4892), (30, 4943), (51, 5093), (53, 5105), (72, 5240), (75, 5261), (109, 5489), (114, 5543), (115, 5546), (118, 5570),

Gene: Renzie\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Renzie\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (49, 5068), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Reptar3000\_14 Start: 8928, Stop: 9857, Start Num: 8

Candidate Starts for Reptar3000\_14:

(Start: 8 @8928 has 417 MA's), (17, 9018), (19, 9039), (20, 9045), (24, 9072), (29, 9132), (40, 9234), (41, 9240), (57, 9360), (69, 9417), (81, 9507), (98, 9600), (107, 9654), (109, 9672), (114, 9738), (123, 9798),

Gene: Rialto\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Rialto\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Richo\_13 Start: 7012, Stop: 7941, Start Num: 8

Candidate Starts for Richo\_13:

(Start: 8 @7012 has 417 MA's), (17, 7102), (20, 7129), (24, 7156), (35, 7276), (37, 7288), (52, 7387), (62, 7471), (100, 7699), (107, 7738), (109, 7756), (114, 7822), (115, 7825), (123, 7882), (126, 7903),

Gene: Riyhil\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Riyhil\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Robinson\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Robinson\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: RockyHorror\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for RockyHorror\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Rog141\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Rog141\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Ronaldo\_42 Start: 15254, Stop: 16228, Start Num: 8

Candidate Starts for Ronaldo\_42:

(Start: 8 @15254 has 417 MA's), (15, 15326), (17, 15344), (20, 15371), (46, 15587), (59, 15704), (72, 15773), (86, 15881), (87, 15908), (90, 15929), (104, 16010), (107, 16037), (114, 16109), (115, 16112), (120, 16148),

Gene: RosieMae\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for RosieMae\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Rosmarinus\_13 Start: 7962, Stop: 8897, Start Num: 8

Candidate Starts for Rosmarinus\_13:

(Start: 8 @7962 has 417 MA's), (17, 8052), (20, 8079), (35, 8226), (37, 8238), (38, 8250), (52, 8337), (62, 8421), (69, 8451), (100, 8649), (107, 8688), (114, 8772), (115, 8775), (119, 8808), (123, 8832),

(132, 8874),

Gene: Ruthiejr\_13 Start: 8782, Stop: 9711, Start Num: 8

Candidate Starts for Ruthiejr\_13:

(Start: 8 @8782 has 417 MA's), (17, 8872), (19, 8893), (20, 8899), (24, 8926), (29, 8986), (37, 9058), (40, 9088), (41, 9094), (69, 9271), (78, 9334), (81, 9361), (85, 9394), (98, 9454), (107, 9508), (114, 9592), (119, 9628), (123, 9652),

Gene: SJay\_6 Start: 4709, Stop: 5635, Start Num: 8

Candidate Starts for SJay\_6:

(Start: 8 @4709 has 417 MA's), (20, 4826), (23, 4847), (27, 4883), (35, 4976), (36, 4982), (37, 4988), (47, 5048), (49, 5069), (56, 5132), (76, 5246), (95, 5372), (105, 5438), (114, 5522), (118, 5549), (132, 5624),

Gene: SamScheppers\_12 Start: 8691, Stop: 9620, Start Num: 8

Candidate Starts for SamScheppers\_12:

(Start: 8 @8691 has 417 MA's), (17, 8781), (19, 8802), (20, 8808), (24, 8835), (29, 8895), (40, 8997), (41, 9003), (51, 9063), (57, 9123), (69, 9180), (78, 9243), (81, 9270), (98, 9363), (107, 9417), (109, 9435), (114, 9501), (123, 9561),

Gene: SamuelLPlaqson\_13 Start: 7882, Stop: 8817, Start Num: 8

Candidate Starts for SamuelLPlaqson\_13:

(Start: 8 @7882 has 417 MA's), (17, 7972), (20, 7999), (35, 8146), (37, 8158), (38, 8170), (52, 8257), (69, 8371), (100, 8569), (107, 8608), (109, 8626), (114, 8692), (119, 8728), (123, 8752), (132, 8794),

Gene: Sansa\_5 Start: 4885, Stop: 5841, Start Num: 8

Candidate Starts for Sansa\_5:

(Start: 8 @4885 has 417 MA's), (16, 4972), (20, 5002), (21, 5014), (23, 5023), (29, 5092), (47, 5224), (56, 5308), (72, 5407), (75, 5428), (106, 5629), (114, 5710),

Gene: Saratos\_6 Start: 4886, Stop: 5827, Start Num: 8

Candidate Starts for Saratos\_6:

(Start: 8 @4886 has 417 MA's), (16, 4973), (20, 5003), (21, 5015), (23, 5024), (27, 5060), (47, 5225), (56, 5309), (72, 5408), (106, 5630), (114, 5711), (136, 5816),

Gene: Sarma624\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Sarma624\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (111, 5775), (114, 5805), (116, 5820), (119, 5841),

Gene: Scarlett\_12 Start: 6805, Stop: 7728, Start Num: 8

Candidate Starts for Scarlett\_12:

(Start: 8 @6805 has 417 MA's), (19, 6916), (20, 6922), (24, 6949), (35, 7069), (37, 7081), (38, 7093), (52, 7180), (54, 7210), (56, 7225), (59, 7255), (69, 7294), (73, 7330), (107, 7531), (114, 7615), (115, 7618), (119, 7651), (123, 7675),

Gene: Schimmels22\_9 Start: 5932, Stop: 6927, Start Num: 8

Candidate Starts for Schimmels22\_9:

(Start: 8 @5932 has 417 MA's), (17, 6022), (19, 6043), (20, 6049), (21, 6061), (23, 6070), (35, 6199), (36, 6205), (37, 6211), (47, 6271), (49, 6292), (51, 6307), (75, 6481), (99, 6646), (103, 6661), (110, 6715), (114, 6775), (115, 6778),

Gene: Schnapsidee\_6 Start: 4704, Stop: 5696, Start Num: 8

Candidate Starts for Schnapsidee\_6:

(Start: 8 @4704 has 417 MA's), (20, 4821), (27, 4878), (34, 4965), (49, 5064), (72, 5232), (75, 5253), (76, 5259), (101, 5427), (105, 5451), (108, 5475), (114, 5547), (115, 5550),

Gene: Schubert\_7 Start: 5292, Stop: 6233, Start Num: 8

Candidate Starts for Schubert\_7:

(Start: 8 @5292 has 417 MA's), (19, 5403), (20, 5409), (23, 5430), (27, 5466), (30, 5517), (47, 5631), (56, 5715), (71, 5811), (72, 5814), (109, 6063), (114, 6117), (118, 6144), (133, 6222),

Gene: Scissor2024\_9 Start: 5573, Stop: 6565, Start Num: 8

Candidate Starts for Scissor2024\_9:

(Start: 8 @5573 has 417 MA's), (19, 5684), (20, 5690), (23, 5711), (35, 5840), (36, 5846), (37, 5852), (41, 5888), (47, 5912), (49, 5933), (51, 5948), (75, 6122), (99, 6287), (103, 6302), (105, 6320), (114, 6416), (115, 6419),

Gene: Seagreen\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Seagreen\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (105, 5722), (109, 5752), (111, 5776), (114, 5806),

Gene: Sedgewig\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Sedgewig\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: SgtBeansprout\_9 Start: 7225, Stop: 8145, Start Num: 8

Candidate Starts for SgtBeansprout\_9:

(Start: 8 @7225 has 417 MA's), (20, 7342), (24, 7369), (28, 7420), (35, 7489), (37, 7501), (41, 7537), (59, 7675), (62, 7684), (69, 7714), (83, 7813), (98, 7897), (102, 7918), (105, 7939), (107, 7951), (114, 8035), (119, 8071), (128, 8122), (129, 8125),

Gene: Shadow1\_11 Start: 6780, Stop: 7703, Start Num: 8

Candidate Starts for Shadow1\_11:

(Start: 8 @6780 has 417 MA's), (20, 6897), (24, 6924), (33, 7026), (35, 7044), (37, 7056), (38, 7068), (57, 7212), (102, 7473), (107, 7506), (109, 7524), (114, 7590), (115, 7593), (119, 7626), (128, 7677),

Gene: ShaiHulud\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for ShaiHulud\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Shamu\_6 Start: 4886, Stop: 5833, Start Num: 8

Candidate Starts for Shamu\_6:

(Start: 8 @4886 has 417 MA's), (16, 4973), (20, 5003), (21, 5015), (23, 5024), (27, 5060), (47, 5225), (56, 5309), (72, 5408), (106, 5630), (114, 5711),

Gene: Shaobing\_13 Start: 7012, Stop: 7941, Start Num: 8

Candidate Starts for Shaobing\_13:

(Start: 8 @7012 has 417 MA's), (17, 7102), (20, 7129), (24, 7156), (35, 7276), (37, 7288), (52, 7387), (62, 7471), (100, 7699), (107, 7738), (109, 7756), (114, 7822), (115, 7825), (123, 7882),



Gene: ShedlockHolmes\_12 Start: 7945, Stop: 8868, Start Num: 8

Candidate Starts for ShedlockHolmes\_12:

(Start: 8 @7945 has 417 MA's), (17, 8035), (20, 8062), (24, 8089), (37, 8221), (41, 8257), (46, 8278), (51, 8317), (57, 8377), (85, 8557), (105, 8659), (107, 8671), (109, 8689), (114, 8755), (129, 8845),

Gene: Shee\_6 Start: 4705, Stop: 5631, Start Num: 8

Candidate Starts for Shee\_6:

(Start: 8 @4705 has 417 MA's), (20, 4822), (23, 4843), (27, 4879), (35, 4972), (36, 4978), (37, 4984), (47, 5044), (56, 5128), (76, 5242), (95, 5368), (105, 5434), (114, 5518), (118, 5545), (132, 5620),

Gene: ShiaSurprise\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for ShiaSurprise\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: SimranZ1\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for SimranZ1\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Sinatra\_6 Start: 4719, Stop: 5666, Start Num: 8

Candidate Starts for Sinatra\_6:

(Start: 8 @4719 has 417 MA's), (19, 4830), (20, 4836), (23, 4857), (27, 4893), (29, 4926), (30, 4944), (51, 5094), (53, 5106), (72, 5241), (109, 5490), (114, 5544), (115, 5547), (118, 5571),

Gene: SirPhilip\_12 Start: 6640, Stop: 7569, Start Num: 8

Candidate Starts for SirPhilip\_12:

(Start: 8 @6640 has 417 MA's), (17, 6730), (20, 6757), (24, 6784), (35, 6904), (37, 6916), (52, 7015), (54, 7045), (56, 7060), (65, 7108), (83, 7228), (102, 7333), (107, 7366), (114, 7450), (115, 7453), (119, 7486), (123, 7510), (129, 7540),

Gene: SirVictor\_6 Start: 4803, Stop: 5753, Start Num: 8

Candidate Starts for SirVictor\_6:

(Start: 8 @4803 has 417 MA's), (19, 4914), (20, 4920), (23, 4941), (27, 4977), (30, 5028), (51, 5178), (53, 5190), (72, 5325), (109, 5574), (114, 5628), (115, 5631), (118, 5655),

Gene: Slarp\_14 Start: 9175, Stop: 10104, Start Num: 8

Candidate Starts for Slarp\_14:

(Start: 8 @9175 has 417 MA's), (17, 9265), (19, 9286), (20, 9292), (24, 9319), (29, 9379), (40, 9481), (41, 9487), (51, 9547), (57, 9607), (69, 9664), (78, 9727), (81, 9754), (98, 9847), (107, 9901), (109, 9919), (114, 9985), (123, 10045),

Gene: Slim\_8 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Slim\_8:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Slimphazie\_13 Start: 7932, Stop: 8870, Start Num: 8

Candidate Starts for Slimphazie\_13:

(Start: 8 @7932 has 417 MA's), (17, 8022), (20, 8049), (35, 8196), (37, 8208), (38, 8220), (52, 8307), (62, 8391), (69, 8421), (100, 8619), (107, 8658), (114, 8742), (115, 8745), (119, 8778), (123, 8802), (132, 8844),

Gene: SoSeph\_11 Start: 8082, Stop: 9014, Start Num: 8

Candidate Starts for SoSeph\_11:

(Start: 8 @8082 has 417 MA's), (20, 8199), (24, 8226), (29, 8286), (31, 8322), (33, 8328), (41, 8394), (52, 8457), (78, 8634), (114, 8892), (115, 8895), (119, 8928), (123, 8952),

Gene: SoilGremlin\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for SoilGremlin\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: SonOfLevi\_6 Start: 4709, Stop: 5635, Start Num: 7

Candidate Starts for SonOfLevi\_6:

(Start: 7 @4709 has 10 MA's), (20, 4826), (23, 4847), (27, 4883), (35, 4976), (36, 4982), (37, 4988), (47, 5048), (56, 5132), (76, 5246), (95, 5372), (100, 5411), (105, 5438), (114, 5522), (118, 5549), (132, 5624),

Gene: Sparky\_6 Start: 5365, Stop: 6333, Start Num: 6

Candidate Starts for Sparky\_6:

(Start: 6 @5365 has 2 MA's), (9, 5389), (17, 5455), (20, 5482), (25, 5512), (29, 5569), (33, 5611), (36, 5635), (37, 5641), (38, 5653), (51, 5737), (57, 5797), (79, 5920), (88, 6016), (97, 6082), (103, 6112), (109, 6160), (111, 6184), (114, 6214), (115, 6217), (119, 6250),

Gene: Spikelee\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Spikelee\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Spock\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Spock\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Squirty\_7 Start: 5006, Stop: 5914, Start Num: 8

Candidate Starts for Squirty\_7:

(Start: 8 @5006 has 417 MA's), (19, 5117), (20, 5123), (26, 5162), (27, 5180), (29, 5210), (38, 5294), (54, 5411), (72, 5525), (74, 5543), (103, 5702), (104, 5705), (105, 5720), (109, 5750), (111, 5774), (114, 5804), (116, 5819), (119, 5840),

Gene: Stanktossa\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Stanktossa\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Stap\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Stap\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820),

(119, 5841),

Gene: Starcevich\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Starcevich\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: StingRay\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for StingRay\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Stinson\_13 Start: 7903, Stop: 8838, Start Num: 8

Candidate Starts for Stinson\_13:

(Start: 8 @7903 has 417 MA's), (17, 7993), (20, 8020), (30, 8125), (35, 8167), (37, 8179), (38, 8191), (52, 8278), (69, 8392), (100, 8590), (107, 8629), (109, 8647), (114, 8713), (115, 8716), (119, 8749), (123, 8773), (132, 8815),

Gene: StirfryIV\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for StirfryIV\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Stormbreaker8\_6 Start: 4705, Stop: 5697, Start Num: 8

Candidate Starts for Stormbreaker8\_6:

(Start: 8 @4705 has 417 MA's), (20, 4822), (27, 4879), (34, 4966), (49, 5065), (72, 5233), (75, 5254), (76, 5260), (101, 5428), (105, 5452), (108, 5476), (114, 5548), (115, 5551),

Gene: Strathdee\_6 Start: 4709, Stop: 5635, Start Num: 8

Candidate Starts for Strathdee\_6:

(Start: 8 @4709 has 417 MA's), (20, 4826), (23, 4847), (27, 4883), (35, 4976), (36, 4982), (37, 4988), (47, 5048), (56, 5132), (76, 5246), (95, 5372), (105, 5438), (114, 5522), (118, 5549), (132, 5624),

Gene: Strobilo\_9 Start: 5947, Stop: 6864, Start Num: 8

Candidate Starts for Strobilo\_9:

(Start: 8 @5947 has 417 MA's), (19, 6058), (20, 6064), (24, 6091), (37, 6223), (40, 6253), (41, 6259), (57, 6379), (85, 6559), (105, 6661), (114, 6757), (119, 6793), (121, 6802), (129, 6847),

Gene: Sulley\_13 Start: 7901, Stop: 8839, Start Num: 8

Candidate Starts for Sulley\_13:

(Start: 8 @7901 has 417 MA's), (17, 7991), (20, 8018), (35, 8165), (37, 8177), (38, 8189), (52, 8276), (62, 8360), (69, 8390), (100, 8588), (107, 8627), (114, 8711), (115, 8714), (119, 8747), (123, 8771), (132, 8813),

Gene: Sunflower1121\_11 Start: 6791, Stop: 7714, Start Num: 8

Candidate Starts for Sunflower1121\_11:

(Start: 8 @6791 has 417 MA's), (20, 6908), (24, 6935), (33, 7037), (35, 7055), (37, 7067), (38, 7079), (57, 7223), (102, 7484), (107, 7517), (109, 7535), (114, 7601), (115, 7604), (119, 7637), (128, 7688),

Gene: Superfresh\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Superfresh\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (49, 5068), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Symere\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Symere\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Syra333\_12 Start: 6884, Stop: 7807, Start Num: 8

Candidate Starts for Syra333\_12:

(Start: 8 @6884 has 417 MA's), (20, 7001), (24, 7028), (35, 7148), (37, 7160), (38, 7172), (65, 7352), (102, 7577), (107, 7610), (109, 7628), (114, 7694), (115, 7697), (119, 7730), (123, 7754), (128, 7781),

Gene: TBond007\_12 Start: 7696, Stop: 8619, Start Num: 8

Candidate Starts for TBond007\_12:

(Start: 8 @7696 has 417 MA's), (17, 7786), (20, 7813), (24, 7840), (37, 7972), (41, 8008), (46, 8029), (51, 8068), (57, 8128), (85, 8308), (105, 8410), (107, 8422), (109, 8440), (114, 8506), (129, 8596),

Gene: TClif\_12 Start: 6882, Stop: 7805, Start Num: 8

Candidate Starts for TClif\_12:

(Start: 8 @6882 has 417 MA's), (17, 6972), (20, 6999), (24, 7026), (35, 7146), (37, 7158), (65, 7350), (69, 7371), (70, 7389), (77, 7431), (83, 7470), (102, 7575), (107, 7608), (109, 7626), (114, 7692), (115, 7695), (119, 7728), (123, 7752),

Gene: TM4\_9 Start: 5999, Stop: 6916, Start Num: 8

Candidate Starts for TM4\_9:

(Start: 8 @5999 has 417 MA's), (19, 6110), (20, 6116), (24, 6143), (30, 6221), (37, 6275), (40, 6305), (41, 6311), (57, 6431), (62, 6458), (85, 6611), (102, 6692), (105, 6713), (114, 6809), (119, 6845), (121, 6854), (129, 6899),

Gene: Tachez\_13 Start: 7897, Stop: 8832, Start Num: 8

Candidate Starts for Tachez\_13:

(Start: 8 @7897 has 417 MA's), (17, 7987), (20, 8014), (35, 8161), (37, 8173), (38, 8185), (52, 8272), (62, 8356), (69, 8386), (100, 8584), (107, 8623), (114, 8707), (115, 8710), (119, 8743), (123, 8767), (132, 8809),

Gene: TaiwanKao\_13 Start: 7904, Stop: 8839, Start Num: 8

Candidate Starts for TaiwanKao\_13:

(Start: 8 @7904 has 417 MA's), (17, 7994), (20, 8021), (35, 8168), (37, 8180), (38, 8192), (52, 8279), (69, 8393), (100, 8591), (107, 8630), (109, 8648), (114, 8714), (115, 8717), (119, 8750), (123, 8774), (132, 8816),

Gene: Taquito\_12 Start: 8761, Stop: 9690, Start Num: 8

Candidate Starts for Taquito\_12:

(Start: 8 @8761 has 417 MA's), (17, 8851), (19, 8872), (20, 8878), (24, 8905), (29, 8965), (40, 9067), (41, 9073), (51, 9133), (57, 9193), (69, 9250), (78, 9313), (81, 9340), (98, 9433), (107, 9487), (109, 9505), (114, 9571), (123, 9631),

Gene: TatarkaPM\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for TatarkaPM\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Tchotchke\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Tchotchke\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: Teagan\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Teagan\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (49, 5068), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: TeddyBear\_6 Start: 4722, Stop: 5648, Start Num: 8

Candidate Starts for TeddyBear\_6:

(Start: 8 @4722 has 417 MA's), (20, 4839), (23, 4860), (27, 4896), (35, 4989), (36, 4995), (37, 5001), (47, 5061), (56, 5145), (76, 5259), (95, 5385), (105, 5451), (114, 5535), (118, 5562), (132, 5637),

Gene: Teejan\_9 Start: 7225, Stop: 8145, Start Num: 8

Candidate Starts for Teejan\_9:

(Start: 8 @7225 has 417 MA's), (20, 7342), (24, 7369), (28, 7420), (35, 7489), (37, 7501), (41, 7537), (59, 7675), (62, 7684), (69, 7714), (83, 7813), (98, 7897), (102, 7918), (105, 7939), (107, 7951), (114, 8035), (119, 8071), (128, 8122), (129, 8125),

Gene: Tenda\_6 Start: 4720, Stop: 5646, Start Num: 8

Candidate Starts for Tenda\_6:

(Start: 8 @4720 has 417 MA's), (20, 4837), (23, 4858), (27, 4894), (35, 4987), (36, 4993), (37, 4999), (47, 5059), (56, 5143), (76, 5257), (95, 5383), (105, 5449), (114, 5533), (118, 5560), (132, 5635),

Gene: Theresita\_7 Start: 4724, Stop: 5656, Start Num: 8

Candidate Starts for Theresita\_7:

(Start: 8 @4724 has 417 MA's), (14, 4787), (20, 4841), (23, 4862), (29, 4928), (35, 4988), (36, 4994), (37, 5000), (47, 5060), (64, 5177), (67, 5192), (72, 5231), (75, 5252), (96, 5390), (100, 5423), (114, 5534), (115, 5537),

Gene: Thompsone\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Thompsone\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Thorongil\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Thorongil\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Thyatira\_11 Start: 7954, Stop: 8886, Start Num: 8

Candidate Starts for Thyatira\_11:

(Start: 8 @7954 has 417 MA's), (20, 8071), (24, 8098), (29, 8158), (31, 8194), (33, 8200), (41, 8266), (52, 8329), (54, 8359), (78, 8506), (114, 8764), (115, 8767), (119, 8800), (123, 8824),

Gene: Tierra\_12 Start: 7585, Stop: 8508, Start Num: 8

Candidate Starts for Tierra\_12:

(Start: 8 @7585 has 417 MA's), (20, 7702), (35, 7849), (38, 7873), (46, 7918), (54, 7990), (57, 8017), (62, 8044), (83, 8173), (102, 8278), (109, 8329), (114, 8395), (115, 8398), (119, 8431),

Gene: TinSulphur\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for TinSulphur\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: TingHuaYa\_13 Start: 6962, Stop: 7891, Start Num: 8

Candidate Starts for TingHuaYa\_13:

(Start: 8 @6962 has 417 MA's), (17, 7052), (20, 7079), (29, 7166), (35, 7226), (37, 7238), (38, 7250), (57, 7394), (62, 7421), (69, 7451), (102, 7655), (107, 7688), (114, 7772), (115, 7775), (119, 7808), (123, 7832), (132, 7874),

Gene: TiniBug\_13 Start: 7882, Stop: 8817, Start Num: 8

Candidate Starts for TiniBug\_13:

(Start: 8 @7882 has 417 MA's), (17, 7972), (20, 7999), (35, 8146), (37, 8158), (38, 8170), (52, 8257), (69, 8371), (100, 8569), (107, 8608), (109, 8626), (114, 8692), (119, 8728), (123, 8752), (132, 8794),

Gene: Tinyman4\_9 Start: 5573, Stop: 6568, Start Num: 8

Candidate Starts for Tinyman4\_9:

(Start: 8 @5573 has 417 MA's), (19, 5684), (20, 5690), (23, 5711), (35, 5840), (36, 5846), (37, 5852), (41, 5888), (47, 5912), (49, 5933), (51, 5948), (75, 6122), (99, 6287), (103, 6302), (105, 6320), (114, 6416), (115, 6419),

Gene: Tiri\_13 Start: 7942, Stop: 8874, Start Num: 8

Candidate Starts for Tiri\_13:

(Start: 8 @7942 has 417 MA's), (17, 8032), (20, 8059), (35, 8206), (37, 8218), (38, 8230), (52, 8317), (62, 8401), (69, 8431), (100, 8629), (107, 8668), (114, 8752), (115, 8755), (119, 8788), (123, 8812), (132, 8854),

Gene: TootsiePop\_7 Start: 5011, Stop: 5919, Start Num: 8

Candidate Starts for TootsiePop\_7:

(Start: 8 @5011 has 417 MA's), (17, 5101), (18, 5104), (20, 5128), (27, 5185), (29, 5215), (38, 5299), (51, 5383), (54, 5416), (74, 5548), (81, 5590), (103, 5707), (104, 5710), (109, 5755), (114, 5809), (116, 5824), (119, 5845),

Gene: Tootsieroll\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Tootsieroll\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Topper\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Topper\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Torres\_9 Start: 7225, Stop: 8145, Start Num: 8

Candidate Starts for Torres\_9:

(Start: 8 @7225 has 417 MA's), (20, 7342), (24, 7369), (28, 7420), (35, 7489), (37, 7501), (41, 7537), (59, 7675), (62, 7684), (69, 7714), (83, 7813), (98, 7897), (102, 7918), (105, 7939), (107, 7951), (114,

8035), (119, 8071), (128, 8122), (129, 8125),

Gene: Totinger\_7 Start: 5008, Stop: 5916, Start Num: 8

Candidate Starts for Totinger\_7:

(Start: 8 @5008 has 417 MA's), (17, 5098), (18, 5101), (20, 5125), (27, 5182), (29, 5212), (38, 5296), (54, 5413), (74, 5545), (81, 5587), (103, 5704), (104, 5707), (109, 5752), (114, 5806), (116, 5821), (119, 5842),

Gene: TreyKay\_13 Start: 7898, Stop: 8833, Start Num: 8

Candidate Starts for TreyKay\_13:

(Start: 8 @7898 has 417 MA's), (17, 7988), (20, 8015), (35, 8162), (37, 8174), (38, 8186), (52, 8273), (69, 8387), (100, 8585), (107, 8624), (109, 8642), (114, 8708), (115, 8711), (119, 8744), (123, 8768), (132, 8810),

Gene: TribbleTrouble\_11 Start: 7741, Stop: 8676, Start Num: 8

Candidate Starts for TribbleTrouble\_11:

(Start: 8 @7741 has 417 MA's), (20, 7858), (24, 7885), (37, 8017), (41, 8053), (51, 8113), (59, 8191), (107, 8467), (109, 8485), (114, 8551), (119, 8587),

Gene: TruffulaTree\_13 Start: 7928, Stop: 8866, Start Num: 8

Candidate Starts for TruffulaTree\_13:

(Start: 8 @7928 has 417 MA's), (17, 8018), (20, 8045), (35, 8192), (37, 8204), (38, 8216), (52, 8303), (62, 8387), (69, 8417), (100, 8615), (107, 8654), (114, 8738), (115, 8741), (119, 8774), (123, 8798), (132, 8840),

Gene: Twitch\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Twitch\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: TwoBits\_6 Start: 4998, Stop: 5978, Start Num: 8

Candidate Starts for TwoBits\_6:

(Start: 8 @4998 has 417 MA's), (19, 5109), (20, 5115), (23, 5136), (27, 5172), (36, 5271), (37, 5277), (41, 5313), (47, 5337), (60, 5454), (71, 5523), (72, 5526), (99, 5712), (101, 5721), (103, 5727), (105, 5745), (114, 5829), (115, 5832), (137, 5973),

Gene: UncleRicky\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for UncleRicky\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (114, 5805), (116, 5820), (119, 5841),

Gene: Unicorn\_12 Start: 6920, Stop: 7843, Start Num: 8

Candidate Starts for Unicorn\_12:

(Start: 8 @6920 has 417 MA's), (10, 6953), (20, 7037), (35, 7184), (38, 7208), (46, 7253), (54, 7325), (56, 7340), (57, 7352), (62, 7379), (83, 7508), (102, 7613), (107, 7646), (109, 7664), (114, 7730), (115, 7733), (119, 7766),

Gene: Urkel\_13 Start: 7882, Stop: 8817, Start Num: 8

Candidate Starts for Urkel\_13:

(Start: 8 @7882 has 417 MA's), (17, 7972), (20, 7999), (35, 8146), (37, 8158), (38, 8170), (52, 8257), (69, 8371), (100, 8569), (107, 8608), (109, 8626), (114, 8692), (119, 8728), (123, 8752), (132, 8794),

Gene: Validus\_13 Start: 6925, Stop: 7860, Start Num: 8

Candidate Starts for Validus\_13:

(Start: 8 @6925 has 417 MA's), (20, 7042), (24, 7069), (35, 7189), (37, 7201), (52, 7300), (54, 7330), (62, 7384), (100, 7612), (107, 7651), (114, 7735), (115, 7738), (123, 7795), (129, 7825),

Gene: Velene\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Velene\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Veliki\_13 Start: 7974, Stop: 8909, Start Num: 8

Candidate Starts for Veliki\_13:

(Start: 8 @7974 has 417 MA's), (17, 8064), (20, 8091), (35, 8238), (37, 8250), (38, 8262), (52, 8349), (62, 8433), (69, 8463), (100, 8661), (107, 8700), (114, 8784), (115, 8787), (119, 8820), (123, 8844), (132, 8886),

Gene: Velveteen\_7 Start: 5007, Stop: 5915, Start Num: 8

Candidate Starts for Velveteen\_7:

(Start: 8 @5007 has 417 MA's), (17, 5097), (18, 5100), (20, 5124), (27, 5181), (29, 5211), (38, 5295), (54, 5412), (74, 5544), (81, 5586), (103, 5703), (104, 5706), (109, 5751), (111, 5775), (114, 5805), (116, 5820), (119, 5841),

Gene: Vispitious\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Vispitious\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: ViviJ\_10 Start: 7861, Stop: 8781, Start Num: 8

Candidate Starts for ViviJ\_10:

(Start: 8 @7861 has 417 MA's), (20, 7978), (24, 8005), (29, 8065), (31, 8101), (33, 8107), (37, 8137), (41, 8173), (52, 8236), (54, 8266), (114, 8671), (115, 8674), (119, 8707), (123, 8731),

Gene: Volt\_41 Start: 15254, Stop: 16228, Start Num: 8

Candidate Starts for Volt\_41:

(Start: 8 @15254 has 417 MA's), (15, 15326), (17, 15344), (20, 15371), (46, 15587), (59, 15704), (72, 15773), (86, 15881), (87, 15908), (90, 15929), (104, 16010), (107, 16037), (114, 16109), (115, 16112), (120, 16148),

Gene: Wardwill\_9 Start: 5359, Stop: 6339, Start Num: 8

Candidate Starts for Wardwill\_9:

(Start: 8 @5359 has 417 MA's), (19, 5470), (20, 5476), (23, 5497), (36, 5632), (41, 5674), (47, 5698), (60, 5815), (71, 5884), (72, 5887), (99, 6073), (103, 6088), (105, 6106), (114, 6190), (115, 6193), (137, 6334),

Gene: Waterfoul\_11 Start: 7976, Stop: 8908, Start Num: 8

Candidate Starts for Waterfoul\_11:

(Start: 8 @7976 has 417 MA's), (20, 8093), (24, 8120), (29, 8180), (31, 8216), (33, 8222), (41, 8288), (52, 8351), (54, 8381), (78, 8528), (114, 8786), (115, 8789), (119, 8822), (123, 8846),

Gene: WestPM\_8 Start: 5411, Stop: 6406, Start Num: 8

Candidate Starts for WestPM\_8:



(Start: 8 @5411 has 417 MA's), (17, 5501), (19, 5522), (20, 5528), (21, 5540), (23, 5549), (35, 5678), (36, 5684), (37, 5690), (47, 5750), (49, 5771), (51, 5786), (75, 5960), (99, 6125), (103, 6140), (110, 6194), (114, 6254), (115, 6257),

Gene: WildNOut\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for WildNOut\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: WilliamStrong\_6 Start: 5769, Stop: 6749, Start Num: 8

Candidate Starts for WilliamStrong\_6:

(Start: 8 @5769 has 417 MA's), (14, 5832), (17, 5859), (19, 5880), (20, 5886), (23, 5907), (27, 5943), (35, 6036), (36, 6042), (37, 6048), (71, 6294), (72, 6297), (99, 6483), (114, 6600), (115, 6603), (135, 6714), (137, 6744),

Gene: Wintermute\_14 Start: 9164, Stop: 10093, Start Num: 8

Candidate Starts for Wintermute\_14:

(Start: 8 @9164 has 417 MA's), (17, 9254), (19, 9275), (20, 9281), (24, 9308), (29, 9368), (40, 9470), (41, 9476), (51, 9536), (57, 9596), (69, 9653), (78, 9716), (81, 9743), (98, 9836), (107, 9890), (109, 9908), (114, 9974), (123, 10034),

Gene: Winzigespinne\_6 Start: 4707, Stop: 5633, Start Num: 8

Candidate Starts for Winzigespinne\_6:

(Start: 8 @4707 has 417 MA's), (20, 4824), (23, 4845), (27, 4881), (35, 4974), (36, 4980), (37, 4986), (47, 5046), (56, 5130), (76, 5244), (95, 5370), (105, 5436), (114, 5520), (118, 5547), (132, 5622),

Gene: Ximenita\_13 Start: 7063, Stop: 7986, Start Num: 8

Candidate Starts for Ximenita\_13:

(Start: 8 @7063 has 417 MA's), (20, 7180), (24, 7207), (33, 7309), (35, 7327), (37, 7339), (38, 7351), (69, 7552), (102, 7756), (107, 7789), (109, 7807), (114, 7873), (115, 7876), (119, 7909), (128, 7960),

Gene: Y10\_14 Start: 9164, Stop: 10093, Start Num: 8

Candidate Starts for Y10\_14:

(Start: 8 @9164 has 417 MA's), (17, 9254), (19, 9275), (20, 9281), (24, 9308), (29, 9368), (40, 9470), (41, 9476), (51, 9536), (56, 9584), (57, 9596), (69, 9653), (78, 9716), (81, 9743), (98, 9836), (107, 9890), (109, 9908), (114, 9974), (123, 10034),

Gene: Y2\_14 Start: 9164, Stop: 10093, Start Num: 8

Candidate Starts for Y2\_14:

(Start: 8 @9164 has 417 MA's), (17, 9254), (19, 9275), (20, 9281), (24, 9308), (29, 9368), (40, 9470), (41, 9476), (51, 9536), (56, 9584), (57, 9596), (69, 9653), (78, 9716), (81, 9743), (98, 9836), (107, 9890), (109, 9908), (114, 9974), (123, 10034),

Gene: YoureAdopted\_12 Start: 7904, Stop: 8842, Start Num: 8

Candidate Starts for YoureAdopted\_12:

(Start: 8 @7904 has 417 MA's), (17, 7994), (20, 8021), (35, 8168), (37, 8180), (38, 8192), (52, 8279), (62, 8363), (69, 8393), (100, 8591), (107, 8630), (114, 8714), (115, 8717), (119, 8750), (123, 8774), (132, 8816),

Gene: Yuna\_13 Start: 7051, Stop: 7974, Start Num: 8

Candidate Starts for Yuna\_13:

(Start: 8 @7051 has 417 MA's), (17, 7141), (19, 7162), (20, 7168), (24, 7195), (33, 7297), (35, 7315), (38, 7339), (54, 7456), (56, 7471), (83, 7639), (100, 7738), (102, 7744), (107, 7777), (114, 7861), (115,

7864), (119, 7897), (123, 7921),

Gene: Yunkel11\_13 Start: 6888, Stop: 7817, Start Num: 8

Candidate Starts for Yunkel11\_13:

(Start: 8 @6888 has 417 MA's), (17, 6978), (20, 7005), (35, 7152), (37, 7164), (38, 7176), (52, 7263), (69, 7377), (100, 7575), (107, 7614), (114, 7698), (115, 7701), (119, 7734), (123, 7758), (128, 7785), (132, 7800),

Gene: YuuY\_6 Start: 5002, Stop: 5949, Start Num: 8

Candidate Starts for YuuY\_6:

(Start: 8 @5002 has 417 MA's), (20, 5119), (21, 5131), (23, 5140), (24, 5146), (27, 5176), (29, 5209), (47, 5341), (53, 5389), (56, 5425), (71, 5521), (72, 5524), (96, 5683), (114, 5827),

Gene: Zabiza\_13 Start: 7929, Stop: 8867, Start Num: 8

Candidate Starts for Zabiza\_13:

(Start: 8 @7929 has 417 MA's), (17, 8019), (20, 8046), (35, 8193), (37, 8205), (38, 8217), (52, 8304), (62, 8388), (69, 8418), (100, 8616), (107, 8655), (114, 8739), (115, 8742), (119, 8775), (123, 8799), (132, 8841),

Gene: Zada\_6 Start: 4708, Stop: 5634, Start Num: 8

Candidate Starts for Zada\_6:

(Start: 8 @4708 has 417 MA's), (20, 4825), (23, 4846), (27, 4882), (35, 4975), (36, 4981), (37, 4987), (47, 5047), (56, 5131), (76, 5245), (95, 5371), (100, 5410), (105, 5437), (114, 5521), (118, 5548), (132, 5623),

Gene: Zavala\_13 Start: 7913, Stop: 8848, Start Num: 8

Candidate Starts for Zavala\_13:

(Start: 8 @7913 has 417 MA's), (17, 8003), (20, 8030), (35, 8177), (37, 8189), (38, 8201), (52, 8288), (62, 8372), (69, 8402), (100, 8600), (107, 8639), (114, 8723), (115, 8726), (119, 8759), (123, 8783), (132, 8825),

Gene: Zayuliv\_8 Start: 5173, Stop: 6153, Start Num: 8

Candidate Starts for Zayuliv\_8:

(Start: 8 @5173 has 417 MA's), (19, 5284), (20, 5290), (23, 5311), (30, 5398), (36, 5446), (41, 5488), (47, 5512), (60, 5629), (71, 5698), (72, 5701), (99, 5887), (103, 5902), (105, 5920), (114, 6004), (115, 6007), (137, 6148),

Gene: Zenitsu\_6 Start: 4889, Stop: 5845, Start Num: 8

Candidate Starts for Zenitsu\_6:

(Start: 8 @4889 has 417 MA's), (16, 4976), (20, 5006), (21, 5018), (23, 5027), (29, 5096), (47, 5228), (56, 5312), (72, 5411), (75, 5432), (106, 5633), (114, 5714),

Gene: Zepp\_9 Start: 5188, Stop: 6168, Start Num: 8

Candidate Starts for Zepp\_9:

(Start: 8 @5188 has 417 MA's), (19, 5299), (20, 5305), (23, 5326), (30, 5413), (36, 5461), (41, 5503), (47, 5527), (60, 5644), (71, 5713), (72, 5716), (99, 5902), (103, 5917), (105, 5935), (114, 6019), (115, 6022), (137, 6163),

Gene: Ziko\_42 Start: 15194, Stop: 16168, Start Num: 8

Candidate Starts for Ziko\_42:

(Start: 8 @15194 has 417 MA's), (15, 15266), (17, 15284), (20, 15311), (46, 15527), (59, 15644), (72, 15713), (86, 15821), (87, 15848), (90, 15869), (104, 15950), (107, 15977), (114, 16049), (115, 16052), (120, 16088),

Gene: ZoeJ\_9 Start: 5897, Stop: 6814, Start Num: 8

Candidate Starts for ZoeJ\_9:

(Start: 8 @5897 has 417 MA's), (19, 6008), (20, 6014), (24, 6041), (37, 6173), (40, 6203), (41, 6209), (56, 6317), (57, 6329), (69, 6386), (81, 6476), (100, 6584), (102, 6590), (105, 6611), (107, 6623), (114, 6707), (119, 6743), (123, 6767), (128, 6794),