

Pham 206512



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 206512 Report

This analysis was run 02/22/25 on database version 588.

Pham number 206512 has 289 members, 26 are drafts.

Phages represented in each track:

- Track 1 : MulchSalad\_89, Yorick\_76
- Track 2 : Fancypants\_53, MulchExplorer\_86, MadMen\_81, BuzzLyseyear\_83, QuickMath\_82, DirtMcgirt\_82, AlpineSix\_84, KingJulian\_76, IbOuu\_81, Priscilla\_78, AuntGwenStacy\_51, Crumble\_78, XFactor\_78, Seagreen\_82, Blexus\_78, Violac\_88, Quico\_89, Oksu\_84, Misha28\_60, RockyHorror\_81, BobaPhett\_83, DeadP\_84, Corium\_76, DoRead\_87, Lizziana\_85, Che8\_89, Mattes\_81, Spoonbill\_79, Fastidio\_85, Slim\_83, Scitech\_53, Philus\_86, Emmaloid\_83, MilanaBonita\_73, Vivum\_85, NewHope4\_86, DRBy19\_87, PMC\_80, Jant\_90, ThetaBob\_82, Phasih\_76, LittleShirley\_89, ChickenDinner\_64, Aloeri\_64, Faiyaz\_51, TootsiePop\_60, Polo2Bam\_93, Modragons\_82
- Track 3 : MisterCuddles\_81, Girr\_80, Doug\_80, Ruby\_78, Veteran\_75, Corndog\_25, Emma\_87
- Track 4 : Galactic\_84
- Track 5 : Plumbus\_84
- Track 6 : DosHalletts\_83
- Track 7 : SiSi\_79, DillTech15\_87, Mantra\_80, YungJamal\_25
- Track 8 : Jarcob\_83
- Track 9 : OwlsT2W\_82
- Track 10 : Hamulus\_55
- Track 11 : Latretium\_85
- Track 12 : MilleniumForce\_55
- Track 13 : IMpilo\_78
- Track 14 : Camri\_61, Eradicator\_74, Awesomesauce\_62, LouisV14\_60, Llama\_84, Totinger\_85, Byougenkin\_80, Phalconet\_80, Yoshi\_101, Drago\_80, Mandlovu\_78, BlueCrab\_81, Avrafan\_57, GUmbie\_74, LunaBlu\_87, Sizemore\_59, Crespo\_55, Hlubikazi\_78, Seabastian\_85, Taj\_90, Remy19\_56, Periodt\_54, Gandalph\_81, VRedHorse\_82, Flathead\_83, Hilltopfarm\_93, Zombie\_57, ECartman\_53, Phish\_55, ShiLan\_83, Beakin\_76, Hope\_57, PhesterPhotato\_87, Kareem\_59, Boomer\_87, Typha\_50, BPs\_58, BruceB\_58, Piper2020\_63, Burwell21\_78, Argie\_66, FreddyB\_91, Llij\_79, Brujita\_51, Clifton\_76, NormanBulbieJr\_76, James\_84, Ardmore\_69, Lorde\_83, Phatniss\_80, Taptic\_68, Island3\_51, OlympiaSaint\_83, JorRay\_58, PopTart\_75, Jinglebell\_84, Saal\_79, DocMcStuffins\_62, PR\_69, Alexphander\_80, Phreak\_53, Cabrinians\_80, Enby\_84, Eish\_86, Kimberlium\_84, Zerg\_78, Darionha\_55, DLane\_84, Moonbeam\_81, Leozinho\_81, Pacc40\_75, Pippy\_78, Harley\_82, ShaboiShabazz\_55, CaptainTrips\_86, UncleRicky\_82, Girafales\_89, ZoMa\_57, Cepens\_68, LastJedi\_73, Ochi17\_83, Tweety\_84, D12\_68, Starcevich\_83, Phanphagia\_82, Koella\_71, LilMoolah\_84, Jane\_59, Rialto\_87,

Peeb\_54, Nivrat\_82, Hades\_83, Whouxphf\_78, OfUltron\_85, Dante\_81, Rockne\_84, Akhila\_74, CassieYates\_56, Brocalys\_73, Sabbb\_85, Chewbacca\_59, SwagPiggett\_84, SassyB\_75, TomBrady\_56, MinionDave\_82, Wee\_89, Sweets\_58, OgoPogo\_52, OctaviousRex\_57, Cedasite\_56, DMoney\_57, Gorge\_82, Strokeseat\_78, Kersh\_85, Rita\_90, ZenTime222\_54, Kasen3\_59, Juice456\_80, Cornucopia\_83, GigiOuiOui\_77, Florinda\_92, Royals2015\_88, Mova\_82

- Track 15 : Halo\_56, Mahavrat\_84, Sandalphon\_88, Gomashi\_57, Chuckly\_89, Zizzle\_81, Polkaroo\_75, PinkYoshi\_58, Jolene\_56, Coleslaw\_45, ArcusAngelus\_39, BQuat\_45, Juniper1\_83, Marmie\_53
- Track 16 : Frosty24\_59
- Track 17 : Babsiella\_69, Jonghyun\_51, Gideon\_47, Chevrolet\_41, Aroostook\_53, EleanorGeorge\_97, ByChance\_83, Annihilator\_57, Grimmer\_98, SilverChicken\_47, Sparkdehlily\_62, TDanisky\_62, Minnie\_87, Avani\_41, Xula\_65, QueenHazel\_64, Bora\_45, Chance64\_53, Silvy\_55
- Track 18 : Fulbright\_57, Pipsqueaks\_60, Olga\_59, Cerasum\_78, Coco12\_81, BigPhil\_77, Phloss\_57, Sarma624\_83, Schnauzer\_60, Xerxes\_59, Kingsley\_88, Bartholomew\_72, Gex\_60, Philonius\_59, Silvafighter\_60
- Track 19 : Carcharodon\_59, Brookers\_81, Frankie\_77, Hotshotbaby7\_53, Plagueis\_53, Aggie\_55, Demsculpinboyz\_45, Parmesanjohn\_59, Mowgli\_53, Melissauren88\_84, ShowerHandel\_93, Fruitloop\_71, Melville\_64, Smurph\_59, Duplicity\_57, Beakin\_86, Velveteen\_78, CheesePuff\_50, Martik\_91, Ovechkin\_51, RonRayGun\_35, Ibrahim\_35, Venti\_74
- Track 20 : Vorrps\_23, Ryadel\_25, Ashwin\_24, NiebruSaylor\_23, Murai\_23, Familton\_23, Mori\_23, Wildflower\_23, MadKillah\_24, Idergollasper\_22, FoulBall\_22, SchoolBus\_22, Winget\_23, Shida\_23, Firecracker\_23, Schuy\_24, JangDynasty\_22, Vagabond\_23, Catdawg\_22, Krili\_23, Blessica\_23
- Track 21 : Smooch\_26
- Track 22 : Zakhe101\_48
- Track 23 : GodPhather\_86

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

The start number called the most often in the published annotations is 7, it was called in 167 of the 263 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila\_74, Alexphander\_80, ArcusAngelus\_39, Ardmore\_69, Argie\_66, Ashwin\_24, Avrafan\_57, Awesomesauce\_62, BPs\_58, BQuat\_45, Beakin\_76, Blessica\_23, BlueCrab\_81, Boomer\_87, Brocalys\_73, BruceB\_58, Brujita\_51, Burwell21\_78, Byougenkin\_80, Cabrinians\_80, Camri\_61, CaptainTrips\_86, CassieYates\_56, Catdawg\_22, Cedasite\_56, Cepens\_68, Chewbacca\_59, Chuckly\_89, Clifton\_76, Coleslaw\_45, Corndog\_25, Cornucopia\_83, Crespo\_55, D12\_68, DLane\_84, DMoney\_57, Dante\_81, Darionha\_55, DocMcStuffins\_62, Doug\_80, Drago\_80, ECartman\_53, Eish\_86, Emma\_87, Enby\_84, Eradicator\_74, Familton\_23, Firecracker\_23, Flathead\_83, Florinda\_92, FoulBall\_22, FreddyB\_91, Frosty24\_59, GUmbe\_74, Gandolph\_81, GigiOuiOui\_77, Girfales\_89, Girr\_80, Gomashi\_57, Gorge\_82, Hades\_83, Halo\_56, Hamulus\_55, Harley\_82, Hilltopfarm\_93, Hlubikazi\_78, Hope\_57, Idergollasper\_22, Island3\_51, James\_84, Jane\_59, JangDynasty\_22, Jarcob\_83, Jinglebell\_84, Jolene\_56, JorRay\_58, Juice456\_80, Juniper1\_83, Kareem\_59, Kasen3\_59, Kersh\_85, Kimberlium\_84, Koella\_71,

Krili\_23, LastJedi\_73, Leozinho\_81, LilMoolah\_84, Llama\_84, Llij\_79, Lorde\_83, LouisV14\_60, LunaBlu\_87, MadKillah\_24, Mahavrat\_84, Mandlovu\_78, Marmie\_53, MinionDave\_82, MisterCuddles\_81, Moonbeam\_81, Mori\_23, Mova\_82, Murai\_23, NiebruSaylor\_23, Nivrat\_82, NormanBulbieJr\_76, Ochi17\_83, OctaviousRex\_57, OfUltron\_85, Ogoopogo\_52, OlympiaSaint\_83, OwlsT2W\_82, PR\_69, Pacc40\_75, Peeb\_54, Periodt\_54, Phalconet\_80, Phanphagia\_82, Phatniss\_80, PhesterPhotato\_87, Phish\_55, Phreak\_53, PinkYoshi\_58, Piper2020\_63, Pippy\_78, Polkaroo\_75, PopTart\_75, Remy19\_56, Rialto\_87, Rita\_90, Rockne\_84, Royals2015\_88, Ruby\_78, Ryadel\_25, Saal\_79, Sabbb\_85, Sandalphon\_88, SassyB\_75, SchoolBus\_22, Schuy\_24, Seabastian\_85, ShaboiShabazz\_55, ShiLan\_83, Shida\_23, Sizemore\_59, Starcevic\_83, Strokeseat\_78, SwagPigglett\_84, Sweets\_58, Taj\_90, Taptic\_68, TomBrady\_56, Totinger\_85, Tweety\_84, Typha\_50, UncleRicky\_82, VRedHorse\_82, Vagabond\_23, Veteran\_75, Vorrrps\_23, Wee\_89, Whouxphf\_78, Wildflower\_23, Winget\_23, Yoshi\_101, ZenTime222\_54, Zerg\_78, Zizzle\_81, ZoMa\_57, Zombie\_57,

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

- Aggie\_55, Aloeri\_64, AlpineSix\_84, Annihilator\_57, Aroostook\_53, AuntGwenStacy\_51, Avani\_41, Babsiella\_69, Bartholomew\_72, Beakin\_86, BigPhil\_77, Blexus\_78, BobaPhett\_83, Bora\_45, Brookers\_81, BuzzLyseyear\_83, ByChance\_83, Carcharodon\_59, Cerasum\_78, Chance64\_53, Che8\_89, Cheese puff\_50, Chevrolet\_41, ChickenDinner\_64, Coco12\_81, Corium\_76, Crumble\_78, DRBy19\_87, DeadP\_84, Demsculpinboyz\_45, DillTech15\_87, DirtMcgirt\_82, DoRead\_87, DosHalletts\_83, Duplicity\_57, EleanorGeorge\_97, Emmaloid\_83, Faiyaz\_51, Fancypants\_53, Fastidio\_85, Frankie\_77, Fruitloop\_71, Fulbright\_57, Gex\_60, Gideon\_47, GodPhather\_86, Grimmer\_98, Hotshotbaby7\_53, IbOuu\_81, Ibrahim\_35, Jant\_90, Jonghyun\_51, KingJulian\_76, Kingsley\_88, Latretium\_85, LittleShirley\_89, Lizziana\_85, MadMen\_81, Mantra\_80, Martik\_91, Mattes\_81, Melissauren88\_84, Melville\_64, MilanaBonita\_73, MilleniumForce\_55, Minnie\_87, Misha28\_60, Modragons\_82, Mowgli\_53, MulchExplorer\_86, NewHope4\_86, Oksu\_84, Olga\_59, Ovechkin\_51, PMC\_80, Parmesanjohn\_59, Phasih\_76, Pilonius\_59, Philus\_86, Phloss\_57, Pipsqueaks\_60, Plagueis\_53, Plumbus\_84, Polo2Bam\_93, Priscilla\_78, QueenHazel\_64, QuickMath\_82, Quico\_89, RockyHorror\_81, RonRayGun\_35, Sarma624\_83, Schnauzer\_60, Scitech\_53, Seagreen\_82, ShowerHandel\_93, SiSi\_79, Silvafighter\_60, SilverChicken\_47, Silvy\_55, Slim\_83, Smurph\_59, Sparkdehlily\_62, Spoonbill\_79, TDanisky\_62, ThetaBob\_82, TootsiePop\_60, Velveteen\_78, Venti\_74, Violac\_88, Vivum\_85, XFactor\_78, Xerxes\_59, Xula\_65, YungJamal\_25, Zakhe101\_48,

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

- Galactic\_84, IMPilo\_78, MulchSalad\_89, Smooch\_26, Yorick\_76,

### Summary by start number:

Start 3:

- Found in 74 of 289 ( 25.6% ) of genes in pham
- Manual Annotations of this start: 19 of 263
- Called 28.4% of time when present
- Phage (with cluster) where this start called: Annihilator\_57 (G1), Aroostook\_53 (G1), Avani\_41 (F2), Babsiella\_69 (I1), Bora\_45 (O), ByChance\_83 (F1), Chance64\_53 (G1), Chevrolet\_41 (F1), EleanorGeorge\_97 (F1), Gideon\_47 (G1), GodPhather\_86 (W), Grimmer\_98 (F1), Jonghyun\_51 (G1), MilleniumForce\_55 (F1), Minnie\_87 (F1), QueenHazel\_64 (I1), SilverChicken\_47 (F2), Silvy\_55 (N), Sparkdehlily\_62 (F1),

TDanisky\_62 (F1), Xula\_65 (I1),

Start 6:

- Found in 1 of 289 ( 0.3% ) of genes in pham
- Manual Annotations of this start: 1 of 263
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Smooch\_26 (O),

Start 7:

- Found in 284 of 289 ( 98.3% ) of genes in pham
- Manual Annotations of this start: 167 of 263
- Called 59.5% of time when present
- Phage (with cluster) where this start called: Akhila\_74 (F1), Alexphander\_80 (F1), ArcusAngelus\_39 (F1), Ardmore\_69 (F1), Argie\_66 (W), Ashwin\_24 (O), Avrafan\_57 (G1), Awesomesauce\_62 (F1), BPs\_58 (G1), BQuat\_45 (G1), Beakin\_76 (F1), Blessica\_23 (O), BlueCrab\_81 (F1), Boomer\_87 (F1), Brocalys\_73 (F1), BruceB\_58 (G1), Brujita\_51 (I1), Burwell21\_78 (F1), Byougenkin\_80 (F1), Cabrinians\_80 (F1), Camri\_61 (G1), CaptainTrips\_86 (F1), CassieYates\_56 (G1), Catdawg\_22 (O), Cedasite\_56 (G1), Cepens\_68 (W), Chewbacca\_59 (N), Chuckly\_89 (F1), Clifton\_76 (F1), Coleslaw\_45 (G1), Corndog\_25 (O), Cornucopia\_83 (F1), Crespo\_55 (G1), D12\_68 (W), DLane\_84 (F1), DMoney\_57 (G1), Dante\_81 (F1), Darionha\_55 (G1), DocMcStuffins\_62 (F1), Doug\_80 (F1), Drago\_80 (F1), ECartman\_53 (G1), Eish\_86 (F1), Emma\_87 (F1), Enby\_84 (F1), Eradicator\_74 (F1), Familton\_23 (O), Firecracker\_23 (O), Flathead\_83 (F1), Florinda\_92 (F1), FoulBall\_22 (O), FreddyB\_91 (F1), Frosty24\_59 (G1), GUmby\_74 (F1), Gandalph\_81 (F1), GigiOuiOui\_77 (F1), Girafales\_89 (F1), Girr\_80 (F1), Gomashi\_57 (G1), Gorge\_82 (F1), Hades\_83 (F1), Halo\_56 (G1), Hamulus\_55 (F1), Harley\_82 (F1), Hilltopfarm\_93 (Y), Hlubikazi\_78 (F1), Hope\_57 (G1), Idergollasper\_22 (O), Island3\_51 (I1), James\_84 (F1), Jane\_59 (G1), JangDynasty\_22 (O), Jarcob\_83 (F1), Jinglebell\_84 (F1), Jolene\_56 (G1), JorRay\_58 (G1), Juice456\_80 (F1), Juniper1\_83 (F1), Kareem\_59 (G1), Kasen3\_59 (G1), Kersh\_85 (F1), Kimberlium\_84 (F1), Koella\_71 (F1), Krili\_23 (O), LastJedi\_73 (F1), Leozinho\_81 (F1), LilMoolah\_84 (F1), Llama\_84 (F1), Llij\_79 (F1), Lorde\_83 (F1), LouisV14\_60 (G1), LunaBlu\_87 (F1), MadKillah\_24 (O), Mahavrat\_84 (F1), Mandlovu\_78 (F1), Marmie\_53 (G1), MinionDave\_82 (F1), MisterCuddles\_81 (F1), Moonbeam\_81 (F1), Mori\_23 (O), Mova\_82 (F1), Murai\_23 (O), NiebruSaylor\_23 (O), Nivrat\_82 (F1), NormanBulbieJr\_76 (F1), Ochi17\_83 (F1), OctaviousRex\_57 (G1), OfUltron\_85 (F1), Ogoopogo\_52 (F1), OlympiaSaint\_83 (F1), OwlsT2W\_82 (F1), PR\_69 (W), Pacc40\_75 (F1), Peeb\_54 (G1), Periodt\_54 (G1), Phalconet\_80 (F1), Phanphagia\_82 (F1), Phatniss\_80 (F1), PhesterPhotato\_87 (F1), Phish\_55 (G1), Phreak\_53 (G1), PinkYoshi\_58 (G1), Piper2020\_63 (F1), Pippy\_78 (F1), Polkaroo\_75 (P1), PopTart\_75 (F1), Remy19\_56 (G1), Rialto\_87 (F1), Rita\_90 (F1), Rockne\_84 (F1), Royals2015\_88 (F1), Ruby\_78 (F1), Ryadel\_25 (O), Saal\_79 (F1), Sabbb\_85 (F1), Sandalphon\_88 (F1), SassyB\_75 (F1), SchoolBus\_22 (O), Schuy\_24 (O), Seabastian\_85 (F1), ShaboiShabazz\_55 (G1), ShiLan\_83 (F1), Shida\_23 (O), Sizemore\_59 (G1), Starcevich\_83 (F1), Strokeseat\_78 (F1), SwagPiggett\_84 (F1), Sweets\_58 (G1), Taj\_90 (F1), Taptic\_68 (W), TomBrady\_56 (G1), Totinger\_85 (F1), Tweety\_84 (F1), Typha\_50 (Y), UncleRicky\_82 (F1), VRedHorse\_82 (F1), Vagabond\_23 (O), Veteran\_75 (F1), Vorrps\_23 (O), Wee\_89 (F1), Whouxphf\_78 (F1), Wildflower\_23 (O), Winget\_23 (O), Yoshi\_101 (F2), ZenTime222\_54 (T), Zerg\_78 (F1), Zizzle\_81 (F1), ZoMa\_57 (G1), Zombie\_57 (G1),

Start 8:

- Found in 213 of 289 ( 73.7% ) of genes in pham
- Manual Annotations of this start: 1 of 263
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Plumbus\_84 (F1),

#### Start 9:

- Found in 75 of 289 ( 26.0% ) of genes in pham
- Manual Annotations of this start: 15 of 263
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Bartholomew\_72 (P1), BigPhil\_77 (F1), Cerasum\_78 (F1), Coco12\_81 (F1), Fulbright\_57 (N), Gex\_60 (N), Kingsley\_88 (F1), Olga\_59 (G1), Philonius\_59 (N), Phloss\_57 (N), Pipsqueaks\_60 (N), Sarma624\_83 (F1), Schnauzer\_60 (N), Silvafighter\_60 (N), Xerxes\_59 (N),

#### Start 10:

- Found in 289 of 289 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 60 of 263
- Called 28.4% of time when present
- Phage (with cluster) where this start called: Aggie\_55 (N), Aloeri\_64 (F1), AlpineSix\_84 (F1), AuntGwenStacy\_51 (Y), Beakin\_86 (F1), Blexus\_78 (F1), BobaPhett\_83 (F1), Brookers\_81 (F1), BuzzLyseyear\_83 (F1), Carcharodon\_59 (N), Che8\_89 (F1), CheesePuff\_50 (F1), ChickenDinner\_64 (F1), Corium\_76 (F1), Crumble\_78 (F1), DRBy19\_87 (F1), DeadP\_84 (F1), Demsculpinboyz\_45 (F2), DillTech15\_87 (F1), DirtMcgirt\_82 (F1), DoRead\_87 (F1), DosHalletts\_83 (F1), Duplicity\_57 (N), Emmaloid\_83 (F1), Faiyaz\_51 (Y), Fancypants\_53 (F1), Fastidio\_85 (F1), Frankie\_77 (F1), Fruitloop\_71 (F1), Galactic\_84 (F1), Hotshotbaby7\_53 (G1), IMpilo\_78 (F1), IbOuu\_81 (F1), Ibrahim\_35 (T), Jant\_90 (F1), KingJulian\_76 (F1), Latretium\_85 (F1), LittleShirley\_89 (F1), Lizziana\_85 (F1), MadMen\_81 (F1), Mantra\_80 (F1), Martik\_91 (F1), Mattes\_81 (F1), Melissauren88\_84 (F1), Melville\_64 (N), MilanaBonita\_73 (F1), Misha28\_60 (F1), Modragons\_82 (F1), Mowgli\_53 (G1), MulchExplorer\_86 (F1), MulchSalad\_89 (F), NewHope4\_86 (F1), Oksu\_84 (F1), Ovechkin\_51 (F1), PMC\_80 (F1), Parmesanjohn\_59 (N), Phasih\_76 (F1), Philus\_86 (F1), Plagueis\_53 (G1), Polo2Bam\_93 (F1), Priscilla\_78 (F1), QuickMath\_82 (F1), Quico\_89 (F1), RockyHorror\_81 (F1), RonRayGun\_35 (T), Scitech\_53 (N), Seagreen\_82 (F1), ShowerHandel\_93 (F1), SiSi\_79 (F1), Slim\_83 (F1), Smurph\_59 (N), Spoonbill\_79 (F1), ThetaBob\_82 (F4), TootsiePop\_60 (F1), Velveteen\_78 (F1), Venti\_74 (P1), Violac\_88 (F1), Vivum\_85 (F1), XFactor\_78 (F1), Yorick\_76 (F1), YungJamal\_25 (O), Zakhe101\_48 (O),

#### Summary by clusters:

There are 12 clusters represented in this pham: F1, F2, P1, F4, G1, F, I1, O, N, T, W, Y,

#### Info for manual annotations of cluster F1:

- Start number 3 was manually annotated 7 times for cluster F1.
- Start number 7 was manually annotated 97 times for cluster F1.
- Start number 8 was manually annotated 1 time for cluster F1.
- Start number 9 was manually annotated 5 times for cluster F1.
- Start number 10 was manually annotated 44 times for cluster F1.

#### Info for manual annotations of cluster F2:

- Start number 3 was manually annotated 1 time for cluster F2.
- Start number 7 was manually annotated 1 time for cluster F2.
- Start number 10 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:

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

Info for manual annotations of cluster G1:

- Start number 3 was manually annotated 5 times for cluster G1.
- Start number 7 was manually annotated 36 times for cluster G1.
- Start number 9 was manually annotated 1 time for cluster G1.
- Start number 10 was manually annotated 3 times for cluster G1.

Info for manual annotations of cluster I1:

- Start number 3 was manually annotated 3 times for cluster I1.
- Start number 7 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster N:

- Start number 3 was manually annotated 1 time for cluster N.
- Start number 7 was manually annotated 1 time for cluster N.
- Start number 9 was manually annotated 8 times for cluster N.
- Start number 10 was manually annotated 6 times for cluster N.

Info for manual annotations of cluster O:

- Start number 3 was manually annotated 1 time for cluster O.
- Start number 6 was manually annotated 1 time for cluster O.
- Start number 7 was manually annotated 22 times for cluster O.
- Start number 10 was manually annotated 2 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 9 was manually annotated 1 time for cluster P1.
- Start number 10 was manually annotated 1 time for cluster P1.

Info for manual annotations of cluster T:

- Start number 7 was manually annotated 1 time for cluster T.
- Start number 10 was manually annotated 2 times for cluster T.

Info for manual annotations of cluster W:

- Start number 3 was manually annotated 1 time for cluster W.
- Start number 7 was manually annotated 5 times for cluster W.

Info for manual annotations of cluster Y:

- Start number 7 was manually annotated 2 times for cluster Y.

### ***Gene Information:***

Gene: Aggie\_55 Start: 38539, Stop: 38871, Start Num: 10

Candidate Starts for Aggie\_55:

(Start: 3 @38473 has 19 MA's), (Start: 7 @38500 has 167 MA's), (Start: 9 @38533 has 15 MA's),  
(Start: 10 @38539 has 60 MA's), (11, 38575), (12, 38689),

Gene: Akhila\_74 Start: 46879, Stop: 47250, Start Num: 7

Candidate Starts for Akhila\_74:

(Start: 7 @46879 has 167 MA's), (Start: 8 @46909 has 1 MA's), (Start: 10 @46918 has 60 MA's), (11, 46954), (12, 47068), (14, 47128), (15, 47176), (16, 47179),

Gene: Alexphander\_80 Start: 48851, Stop: 49222, Start Num: 7

Candidate Starts for Alexphander\_80:

(Start: 7 @48851 has 167 MA's), (Start: 8 @48881 has 1 MA's), (Start: 10 @48890 has 60 MA's), (11, 48926), (12, 49040), (14, 49100), (15, 49148), (16, 49151),

Gene: Aloeri\_64 Start: 40244, Stop: 40576, Start Num: 10

Candidate Starts for Aloeri\_64:

(Start: 7 @40205 has 167 MA's), (Start: 8 @40235 has 1 MA's), (Start: 10 @40244 has 60 MA's), (11, 40280), (12, 40394), (14, 40454), (15, 40502), (16, 40505),

Gene: AlpineSix\_84 Start: 48904, Stop: 49236, Start Num: 10

Candidate Starts for AlpineSix\_84:

(Start: 7 @48865 has 167 MA's), (Start: 8 @48895 has 1 MA's), (Start: 10 @48904 has 60 MA's), (11, 48940), (12, 49054), (14, 49114), (15, 49162), (16, 49165),

Gene: Annihilator\_57 Start: 39840, Stop: 40238, Start Num: 3

Candidate Starts for Annihilator\_57:

(Start: 3 @39840 has 19 MA's), (Start: 7 @39867 has 167 MA's), (Start: 9 @39900 has 15 MA's), (Start: 10 @39906 has 60 MA's), (11, 39942), (12, 40056),

Gene: ArcusAngelus\_39 Start: 32098, Stop: 31727, Start Num: 7

Candidate Starts for ArcusAngelus\_39:

(Start: 3 @32125 has 19 MA's), (Start: 7 @32098 has 167 MA's), (Start: 9 @32065 has 15 MA's), (Start: 10 @32059 has 60 MA's), (11, 32023), (12, 31909),

Gene: Ardmore\_69 Start: 44219, Stop: 44590, Start Num: 7

Candidate Starts for Ardmore\_69:

(Start: 7 @44219 has 167 MA's), (Start: 8 @44249 has 1 MA's), (Start: 10 @44258 has 60 MA's), (11, 44294), (12, 44408), (14, 44468), (15, 44516), (16, 44519),

Gene: Argie\_66 Start: 49072, Stop: 49443, Start Num: 7

Candidate Starts for Argie\_66:

(Start: 7 @49072 has 167 MA's), (Start: 8 @49102 has 1 MA's), (Start: 10 @49111 has 60 MA's), (11, 49147), (12, 49261), (14, 49321), (15, 49369), (16, 49372),

Gene: Aroostook\_53 Start: 37660, Stop: 38049, Start Num: 3

Candidate Starts for Aroostook\_53:

(Start: 3 @37660 has 19 MA's), (Start: 7 @37687 has 167 MA's), (Start: 9 @37720 has 15 MA's), (Start: 10 @37726 has 60 MA's), (11, 37762), (12, 37876),

Gene: Ashwin\_24 Start: 10917, Stop: 11291, Start Num: 7

Candidate Starts for Ashwin\_24:

(Start: 7 @10917 has 167 MA's), (Start: 8 @10947 has 1 MA's), (Start: 10 @10956 has 60 MA's), (11, 10992), (12, 11106), (14, 11166), (20, 11277),

Gene: AuntGwenStacy\_51 Start: 37629, Stop: 37961, Start Num: 10

Candidate Starts for AuntGwenStacy\_51:



(Start: 7 @37590 has 167 MA's), (Start: 8 @37620 has 1 MA's), (Start: 10 @37629 has 60 MA's), (11, 37665), (12, 37779), (14, 37839), (15, 37887), (16, 37890),

Gene: Avani\_41 Start: 29893, Stop: 29495, Start Num: 3

Candidate Starts for Avani\_41:

(Start: 3 @29893 has 19 MA's), (Start: 7 @29866 has 167 MA's), (Start: 9 @29833 has 15 MA's), (Start: 10 @29827 has 60 MA's), (11, 29791), (12, 29677),

Gene: Avrafan\_57 Start: 39875, Stop: 40246, Start Num: 7

Candidate Starts for Avrafan\_57:

(Start: 7 @39875 has 167 MA's), (Start: 8 @39905 has 1 MA's), (Start: 10 @39914 has 60 MA's), (11, 39950), (12, 40064), (14, 40124), (15, 40172), (16, 40175),

Gene: Awesomesauce\_62 Start: 39288, Stop: 39659, Start Num: 7

Candidate Starts for Awesomesauce\_62:

(Start: 7 @39288 has 167 MA's), (Start: 8 @39318 has 1 MA's), (Start: 10 @39327 has 60 MA's), (11, 39363), (12, 39477), (14, 39537), (15, 39585), (16, 39588),

Gene: BPs\_58 Start: 39937, Stop: 40308, Start Num: 7

Candidate Starts for BPs\_58:

(Start: 7 @39937 has 167 MA's), (Start: 8 @39967 has 1 MA's), (Start: 10 @39976 has 60 MA's), (11, 40012), (12, 40126), (14, 40186), (15, 40234), (16, 40237),

Gene: BQuat\_45 Start: 34998, Stop: 35369, Start Num: 7

Candidate Starts for BQuat\_45:

(Start: 3 @34971 has 19 MA's), (Start: 7 @34998 has 167 MA's), (Start: 9 @35031 has 15 MA's), (Start: 10 @35037 has 60 MA's), (11, 35073), (12, 35187),

Gene: Babsiella\_69 Start: 43709, Stop: 44107, Start Num: 3

Candidate Starts for Babsiella\_69:

(Start: 3 @43709 has 19 MA's), (Start: 7 @43736 has 167 MA's), (Start: 9 @43769 has 15 MA's), (Start: 10 @43775 has 60 MA's), (11, 43811), (12, 43925),

Gene: Bartholomew\_72 Start: 44151, Stop: 44489, Start Num: 9

Candidate Starts for Bartholomew\_72:

(Start: 3 @44091 has 19 MA's), (Start: 7 @44118 has 167 MA's), (Start: 9 @44151 has 15 MA's), (Start: 10 @44157 has 60 MA's), (11, 44193), (12, 44307),

Gene: Beakin\_76 Start: 46101, Stop: 46472, Start Num: 7

Candidate Starts for Beakin\_76:

(Start: 7 @46101 has 167 MA's), (Start: 8 @46131 has 1 MA's), (Start: 10 @46140 has 60 MA's), (11, 46176), (12, 46290), (14, 46350), (15, 46398), (16, 46401),

Gene: Beakin\_86 Start: 49592, Stop: 49924, Start Num: 10

Candidate Starts for Beakin\_86:

(Start: 3 @49526 has 19 MA's), (Start: 7 @49553 has 167 MA's), (Start: 9 @49586 has 15 MA's), (Start: 10 @49592 has 60 MA's), (11, 49628), (12, 49742),

Gene: BigPhil\_77 Start: 45784, Stop: 46122, Start Num: 9

Candidate Starts for BigPhil\_77:

(Start: 3 @45724 has 19 MA's), (Start: 7 @45751 has 167 MA's), (Start: 9 @45784 has 15 MA's), (Start: 10 @45790 has 60 MA's), (11, 45826), (12, 45940),

Gene: Blessica\_23 Start: 10720, Stop: 11094, Start Num: 7

Candidate Starts for Blessica\_23:

(Start: 7 @10720 has 167 MA's), (Start: 8 @10750 has 1 MA's), (Start: 10 @10759 has 60 MA's), (11, 10795), (12, 10909), (14, 10969), (20, 11080),

Gene: Blexus\_78 Start: 49437, Stop: 49769, Start Num: 10

Candidate Starts for Blexus\_78:

(Start: 7 @49398 has 167 MA's), (Start: 8 @49428 has 1 MA's), (Start: 10 @49437 has 60 MA's), (11, 49473), (12, 49587), (14, 49647), (15, 49695), (16, 49698),

Gene: BlueCrab\_81 Start: 49348, Stop: 49719, Start Num: 7

Candidate Starts for BlueCrab\_81:

(Start: 7 @49348 has 167 MA's), (Start: 8 @49378 has 1 MA's), (Start: 10 @49387 has 60 MA's), (11, 49423), (12, 49537), (14, 49597), (15, 49645), (16, 49648),

Gene: BobaPhett\_83 Start: 51394, Stop: 51726, Start Num: 10

Candidate Starts for BobaPhett\_83:

(Start: 7 @51355 has 167 MA's), (Start: 8 @51385 has 1 MA's), (Start: 10 @51394 has 60 MA's), (11, 51430), (12, 51544), (14, 51604), (15, 51652), (16, 51655),

Gene: Boomer\_87 Start: 50213, Stop: 50584, Start Num: 7

Candidate Starts for Boomer\_87:

(Start: 7 @50213 has 167 MA's), (Start: 8 @50243 has 1 MA's), (Start: 10 @50252 has 60 MA's), (11, 50288), (12, 50402), (14, 50462), (15, 50510), (16, 50513),

Gene: Bora\_45 Start: 24565, Stop: 24167, Start Num: 3

Candidate Starts for Bora\_45:

(Start: 3 @24565 has 19 MA's), (Start: 7 @24538 has 167 MA's), (Start: 9 @24505 has 15 MA's), (Start: 10 @24499 has 60 MA's), (11, 24463), (12, 24349),

Gene: Brocalys\_73 Start: 46835, Stop: 47206, Start Num: 7

Candidate Starts for Brocalys\_73:

(Start: 7 @46835 has 167 MA's), (Start: 8 @46865 has 1 MA's), (Start: 10 @46874 has 60 MA's), (11, 46910), (12, 47024), (14, 47084), (15, 47132), (16, 47135),

Gene: Brookers\_81 Start: 48741, Stop: 49073, Start Num: 10

Candidate Starts for Brookers\_81:

(Start: 3 @48675 has 19 MA's), (Start: 7 @48702 has 167 MA's), (Start: 9 @48735 has 15 MA's), (Start: 10 @48741 has 60 MA's), (11, 48777), (12, 48891),

Gene: BruceB\_58 Start: 39937, Stop: 40308, Start Num: 7

Candidate Starts for BruceB\_58:

(Start: 7 @39937 has 167 MA's), (Start: 8 @39967 has 1 MA's), (Start: 10 @39976 has 60 MA's), (11, 40012), (12, 40126), (14, 40186), (15, 40234), (16, 40237),

Gene: Brujita\_51 Start: 36162, Stop: 36533, Start Num: 7

Candidate Starts for Brujita\_51:

(Start: 7 @36162 has 167 MA's), (Start: 8 @36192 has 1 MA's), (Start: 10 @36201 has 60 MA's), (11, 36237), (12, 36351), (14, 36411), (15, 36459), (16, 36462),

Gene: Burwell21\_78 Start: 49121, Stop: 49492, Start Num: 7

Candidate Starts for Burwell21\_78:

(Start: 7 @49121 has 167 MA's), (Start: 8 @49151 has 1 MA's), (Start: 10 @49160 has 60 MA's), (11, 49196), (12, 49310), (14, 49370), (15, 49418), (16, 49421),

Gene: BuzzLyseyear\_83 Start: 50298, Stop: 50630, Start Num: 10

Candidate Starts for BuzzLyseyear\_83:

(Start: 7 @50259 has 167 MA's), (Start: 8 @50289 has 1 MA's), (Start: 10 @50298 has 60 MA's), (11, 50334), (12, 50448), (14, 50508), (15, 50556), (16, 50559),

Gene: ByChance\_83 Start: 47974, Stop: 48372, Start Num: 3

Candidate Starts for ByChance\_83:

(Start: 3 @47974 has 19 MA's), (Start: 7 @48001 has 167 MA's), (Start: 9 @48034 has 15 MA's), (Start: 10 @48040 has 60 MA's), (11, 48076), (12, 48190),

Gene: Byougenkin\_80 Start: 46822, Stop: 47193, Start Num: 7

Candidate Starts for Byougenkin\_80:

(Start: 7 @46822 has 167 MA's), (Start: 8 @46852 has 1 MA's), (Start: 10 @46861 has 60 MA's), (11, 46897), (12, 47011), (14, 47071), (15, 47119), (16, 47122),

Gene: Cabrinians\_80 Start: 48755, Stop: 49126, Start Num: 7

Candidate Starts for Cabrinians\_80:

(Start: 7 @48755 has 167 MA's), (Start: 8 @48785 has 1 MA's), (Start: 10 @48794 has 60 MA's), (11, 48830), (12, 48944), (14, 49004), (15, 49052), (16, 49055),

Gene: Camri\_61 Start: 40731, Stop: 41102, Start Num: 7

Candidate Starts for Camri\_61:

(Start: 7 @40731 has 167 MA's), (Start: 8 @40761 has 1 MA's), (Start: 10 @40770 has 60 MA's), (11, 40806), (12, 40920), (14, 40980), (15, 41028), (16, 41031),

Gene: CaptainTrips\_86 Start: 49981, Stop: 50352, Start Num: 7

Candidate Starts for CaptainTrips\_86:

(Start: 7 @49981 has 167 MA's), (Start: 8 @50011 has 1 MA's), (Start: 10 @50020 has 60 MA's), (11, 50056), (12, 50170), (14, 50230), (15, 50278), (16, 50281),

Gene: Carcharodon\_59 Start: 37883, Stop: 38215, Start Num: 10

Candidate Starts for Carcharodon\_59:

(Start: 3 @37817 has 19 MA's), (Start: 7 @37844 has 167 MA's), (Start: 9 @37877 has 15 MA's), (Start: 10 @37883 has 60 MA's), (11, 37919), (12, 38033),

Gene: CassieYates\_56 Start: 38643, Stop: 39014, Start Num: 7

Candidate Starts for CassieYates\_56:

(Start: 7 @38643 has 167 MA's), (Start: 8 @38673 has 1 MA's), (Start: 10 @38682 has 60 MA's), (11, 38718), (12, 38832), (14, 38892), (15, 38940), (16, 38943),

Gene: Catdawg\_22 Start: 10326, Stop: 10700, Start Num: 7

Candidate Starts for Catdawg\_22:

(Start: 7 @10326 has 167 MA's), (Start: 8 @10356 has 1 MA's), (Start: 10 @10365 has 60 MA's), (11, 10401), (12, 10515), (14, 10575), (20, 10686),

Gene: Cedasite\_56 Start: 38643, Stop: 39014, Start Num: 7

Candidate Starts for Cedasite\_56:

(Start: 7 @38643 has 167 MA's), (Start: 8 @38673 has 1 MA's), (Start: 10 @38682 has 60 MA's), (11, 38718), (12, 38832), (14, 38892), (15, 38940), (16, 38943),

Gene: Cepens\_68 Start: 49954, Stop: 50325, Start Num: 7

Candidate Starts for Cepens\_68:

(Start: 7 @49954 has 167 MA's), (Start: 8 @49984 has 1 MA's), (Start: 10 @49993 has 60 MA's), (11, 50029), (12, 50143), (14, 50203), (15, 50251), (16, 50254),

Gene: Cerasum\_78 Start: 45802, Stop: 46140, Start Num: 9

Candidate Starts for Cerasum\_78:

(Start: 3 @45742 has 19 MA's), (Start: 7 @45769 has 167 MA's), (Start: 9 @45802 has 15 MA's), (Start: 10 @45808 has 60 MA's), (11, 45844), (12, 45958),

Gene: Chance64\_53 Start: 37660, Stop: 38049, Start Num: 3

Candidate Starts for Chance64\_53:

(Start: 3 @37660 has 19 MA's), (Start: 7 @37687 has 167 MA's), (Start: 9 @37720 has 15 MA's), (Start: 10 @37726 has 60 MA's), (11, 37762), (12, 37876),

Gene: Che8\_89 Start: 50756, Stop: 51088, Start Num: 10

Candidate Starts for Che8\_89:

(Start: 7 @50717 has 167 MA's), (Start: 8 @50747 has 1 MA's), (Start: 10 @50756 has 60 MA's), (11, 50792), (12, 50906), (14, 50966), (15, 51014), (16, 51017),

Gene: Cheesepuff\_50 Start: 34938, Stop: 35270, Start Num: 10

Candidate Starts for Cheesepuff\_50:

(Start: 3 @34872 has 19 MA's), (Start: 7 @34899 has 167 MA's), (Start: 9 @34932 has 15 MA's), (Start: 10 @34938 has 60 MA's), (11, 34974), (12, 35088),

Gene: Chevrolet\_41 Start: 32126, Stop: 31728, Start Num: 3

Candidate Starts for Chevrolet\_41:

(Start: 3 @32126 has 19 MA's), (Start: 7 @32099 has 167 MA's), (Start: 9 @32066 has 15 MA's), (Start: 10 @32060 has 60 MA's), (11, 32024), (12, 31910),

Gene: Chewbacca\_59 Start: 37273, Stop: 37644, Start Num: 7

Candidate Starts for Chewbacca\_59:

(Start: 7 @37273 has 167 MA's), (Start: 8 @37303 has 1 MA's), (Start: 10 @37312 has 60 MA's), (11, 37348), (12, 37462), (14, 37522), (15, 37570), (16, 37573),

Gene: ChickenDinner\_64 Start: 40244, Stop: 40576, Start Num: 10

Candidate Starts for ChickenDinner\_64:

(Start: 7 @40205 has 167 MA's), (Start: 8 @40235 has 1 MA's), (Start: 10 @40244 has 60 MA's), (11, 40280), (12, 40394), (14, 40454), (15, 40502), (16, 40505),

Gene: Chuckly\_89 Start: 49034, Stop: 49405, Start Num: 7

Candidate Starts for Chuckly\_89:

(Start: 3 @49007 has 19 MA's), (Start: 7 @49034 has 167 MA's), (Start: 9 @49067 has 15 MA's), (Start: 10 @49073 has 60 MA's), (11, 49109), (12, 49223),

Gene: Clifton\_76 Start: 47937, Stop: 48308, Start Num: 7

Candidate Starts for Clifton\_76:

(Start: 7 @47937 has 167 MA's), (Start: 8 @47967 has 1 MA's), (Start: 10 @47976 has 60 MA's), (11, 48012), (12, 48126), (14, 48186), (15, 48234), (16, 48237),

Gene: Coco12\_81 Start: 49859, Stop: 50197, Start Num: 9

Candidate Starts for Coco12\_81:

(Start: 3 @49799 has 19 MA's), (Start: 7 @49826 has 167 MA's), (Start: 9 @49859 has 15 MA's),  
(Start: 10 @49865 has 60 MA's), (11, 49901), (12, 50015),

Gene: Coleslaw\_45 Start: 34998, Stop: 35369, Start Num: 7

Candidate Starts for Coleslaw\_45:

(Start: 3 @34971 has 19 MA's), (Start: 7 @34998 has 167 MA's), (Start: 9 @35031 has 15 MA's),  
(Start: 10 @35037 has 60 MA's), (11, 35073), (12, 35187),

Gene: Corium\_76 Start: 49397, Stop: 49729, Start Num: 10

Candidate Starts for Corium\_76:

(Start: 7 @49358 has 167 MA's), (Start: 8 @49388 has 1 MA's), (Start: 10 @49397 has 60 MA's), (11,  
49433), (12, 49547), (14, 49607), (15, 49655), (16, 49658),

Gene: Corndog\_25 Start: 11029, Stop: 11334, Start Num: 7

Candidate Starts for Corndog\_25:

(Start: 7 @11029 has 167 MA's), (Start: 8 @11059 has 1 MA's), (Start: 10 @11068 has 60 MA's), (11,  
11104), (12, 11218), (14, 11278),

Gene: Cornucopia\_83 Start: 48114, Stop: 48485, Start Num: 7

Candidate Starts for Cornucopia\_83:

(Start: 7 @48114 has 167 MA's), (Start: 8 @48144 has 1 MA's), (Start: 10 @48153 has 60 MA's), (11,  
48189), (12, 48303), (14, 48363), (15, 48411), (16, 48414),

Gene: Crespo\_55 Start: 38644, Stop: 39015, Start Num: 7

Candidate Starts for Crespo\_55:

(Start: 7 @38644 has 167 MA's), (Start: 8 @38674 has 1 MA's), (Start: 10 @38683 has 60 MA's), (11,  
38719), (12, 38833), (14, 38893), (15, 38941), (16, 38944),

Gene: Crumble\_78 Start: 45519, Stop: 45851, Start Num: 10

Candidate Starts for Crumble\_78:

(Start: 7 @45480 has 167 MA's), (Start: 8 @45510 has 1 MA's), (Start: 10 @45519 has 60 MA's), (11,  
45555), (12, 45669), (14, 45729), (15, 45777), (16, 45780),

Gene: D12\_68 Start: 50589, Stop: 50960, Start Num: 7

Candidate Starts for D12\_68:

(Start: 7 @50589 has 167 MA's), (Start: 8 @50619 has 1 MA's), (Start: 10 @50628 has 60 MA's), (11,  
50664), (12, 50778), (14, 50838), (15, 50886), (16, 50889),

Gene: DLane\_84 Start: 50726, Stop: 51097, Start Num: 7

Candidate Starts for DLane\_84:

(Start: 7 @50726 has 167 MA's), (Start: 8 @50756 has 1 MA's), (Start: 10 @50765 has 60 MA's), (11,  
50801), (12, 50915), (14, 50975), (15, 51023), (16, 51026),

Gene: DMoney\_57 Start: 39853, Stop: 40224, Start Num: 7

Candidate Starts for DMoney\_57:

(Start: 7 @39853 has 167 MA's), (Start: 8 @39883 has 1 MA's), (Start: 10 @39892 has 60 MA's), (11,  
39928), (12, 40042), (14, 40102), (15, 40150), (16, 40153),

Gene: DRBy19\_87 Start: 51705, Stop: 52037, Start Num: 10

Candidate Starts for DRBy19\_87:

(Start: 7 @51666 has 167 MA's), (Start: 8 @51696 has 1 MA's), (Start: 10 @51705 has 60 MA's), (11,  
51741), (12, 51855), (14, 51915), (15, 51963), (16, 51966),

Gene: Dante\_81 Start: 50860, Stop: 51231, Start Num: 7

Candidate Starts for Dante\_81:

(Start: 7 @50860 has 167 MA's), (Start: 8 @50890 has 1 MA's), (Start: 10 @50899 has 60 MA's), (11, 50935), (12, 51049), (14, 51109), (15, 51157), (16, 51160),

Gene: Darionha\_55 Start: 38290, Stop: 38661, Start Num: 7

Candidate Starts for Darionha\_55:

(Start: 7 @38290 has 167 MA's), (Start: 8 @38320 has 1 MA's), (Start: 10 @38329 has 60 MA's), (11, 38365), (12, 38479), (14, 38539), (15, 38587), (16, 38590),

Gene: DeadP\_84 Start: 48685, Stop: 49017, Start Num: 10

Candidate Starts for DeadP\_84:

(Start: 7 @48646 has 167 MA's), (Start: 8 @48676 has 1 MA's), (Start: 10 @48685 has 60 MA's), (11, 48721), (12, 48835), (14, 48895), (15, 48943), (16, 48946),

Gene: Demsculpinboyz\_45 Start: 30025, Stop: 29693, Start Num: 10

Candidate Starts for Demsculpinboyz\_45:

(Start: 3 @30091 has 19 MA's), (Start: 7 @30064 has 167 MA's), (Start: 9 @30031 has 15 MA's), (Start: 10 @30025 has 60 MA's), (11, 29989), (12, 29875),

Gene: DillTech15\_87 Start: 48877, Stop: 49143, Start Num: 10

Candidate Starts for DillTech15\_87:

(Start: 7 @48838 has 167 MA's), (Start: 8 @48868 has 1 MA's), (Start: 10 @48877 has 60 MA's), (11, 48913), (12, 49027), (14, 49087),

Gene: DirtMcgirt\_82 Start: 46862, Stop: 47194, Start Num: 10

Candidate Starts for DirtMcgirt\_82:

(Start: 7 @46823 has 167 MA's), (Start: 8 @46853 has 1 MA's), (Start: 10 @46862 has 60 MA's), (11, 46898), (12, 47012), (14, 47072), (15, 47120), (16, 47123),

Gene: DoRead\_87 Start: 47520, Stop: 47852, Start Num: 10

Candidate Starts for DoRead\_87:

(Start: 7 @47481 has 167 MA's), (Start: 8 @47511 has 1 MA's), (Start: 10 @47520 has 60 MA's), (11, 47556), (12, 47670), (14, 47730), (15, 47778), (16, 47781),

Gene: DocMcStuffins\_62 Start: 40205, Stop: 40576, Start Num: 7

Candidate Starts for DocMcStuffins\_62:

(Start: 7 @40205 has 167 MA's), (Start: 8 @40235 has 1 MA's), (Start: 10 @40244 has 60 MA's), (11, 40280), (12, 40394), (14, 40454), (15, 40502), (16, 40505),

Gene: DosHalletts\_83 Start: 50224, Stop: 50577, Start Num: 10

Candidate Starts for DosHalletts\_83:

(Start: 7 @50185 has 167 MA's), (Start: 8 @50215 has 1 MA's), (Start: 10 @50224 has 60 MA's), (11, 50260), (12, 50374), (14, 50434), (15, 50482), (16, 50485), (18, 50500), (19, 50518),

Gene: Doug\_80 Start: 49682, Stop: 49987, Start Num: 7

Candidate Starts for Doug\_80:

(Start: 7 @49682 has 167 MA's), (Start: 8 @49712 has 1 MA's), (Start: 10 @49721 has 60 MA's), (11, 49757), (12, 49871), (14, 49931),

Gene: Drago\_80 Start: 46826, Stop: 47197, Start Num: 7

Candidate Starts for Drago\_80:

(Start: 7 @46826 has 167 MA's), (Start: 8 @46856 has 1 MA's), (Start: 10 @46865 has 60 MA's), (11, 46901), (12, 47015), (14, 47075), (15, 47123), (16, 47126),

Gene: Duplicity\_57 Start: 37140, Stop: 37472, Start Num: 10

Candidate Starts for Duplicity\_57:

(Start: 3 @37074 has 19 MA's), (Start: 7 @37101 has 167 MA's), (Start: 9 @37134 has 15 MA's), (Start: 10 @37140 has 60 MA's), (11, 37176), (12, 37290),

Gene: ECartman\_53 Start: 38280, Stop: 38651, Start Num: 7

Candidate Starts for ECartman\_53:

(Start: 7 @38280 has 167 MA's), (Start: 8 @38310 has 1 MA's), (Start: 10 @38319 has 60 MA's), (11, 38355), (12, 38469), (14, 38529), (15, 38577), (16, 38580),

Gene: Eish\_86 Start: 50529, Stop: 50900, Start Num: 7

Candidate Starts for Eish\_86:

(Start: 7 @50529 has 167 MA's), (Start: 8 @50559 has 1 MA's), (Start: 10 @50568 has 60 MA's), (11, 50604), (12, 50718), (14, 50778), (15, 50826), (16, 50829),

Gene: EleanorGeorge\_97 Start: 53726, Stop: 54124, Start Num: 3

Candidate Starts for EleanorGeorge\_97:

(Start: 3 @53726 has 19 MA's), (Start: 7 @53753 has 167 MA's), (Start: 9 @53786 has 15 MA's), (Start: 10 @53792 has 60 MA's), (11, 53828), (12, 53942),

Gene: Emma\_87 Start: 48858, Stop: 49163, Start Num: 7

Candidate Starts for Emma\_87:

(Start: 7 @48858 has 167 MA's), (Start: 8 @48888 has 1 MA's), (Start: 10 @48897 has 60 MA's), (11, 48933), (12, 49047), (14, 49107),

Gene: Emmaloid\_83 Start: 49194, Stop: 49526, Start Num: 10

Candidate Starts for Emmaloid\_83:

(Start: 7 @49155 has 167 MA's), (Start: 8 @49185 has 1 MA's), (Start: 10 @49194 has 60 MA's), (11, 49230), (12, 49344), (14, 49404), (15, 49452), (16, 49455),

Gene: Enby\_84 Start: 47102, Stop: 47473, Start Num: 7

Candidate Starts for Enby\_84:

(Start: 7 @47102 has 167 MA's), (Start: 8 @47132 has 1 MA's), (Start: 10 @47141 has 60 MA's), (11, 47177), (12, 47291), (14, 47351), (15, 47399), (16, 47402),

Gene: Eradicator\_74 Start: 47425, Stop: 47796, Start Num: 7

Candidate Starts for Eradicator\_74:

(Start: 7 @47425 has 167 MA's), (Start: 8 @47455 has 1 MA's), (Start: 10 @47464 has 60 MA's), (11, 47500), (12, 47614), (14, 47674), (15, 47722), (16, 47725),

Gene: Faiyaz\_51 Start: 37614, Stop: 37946, Start Num: 10

Candidate Starts for Faiyaz\_51:

(Start: 7 @37575 has 167 MA's), (Start: 8 @37605 has 1 MA's), (Start: 10 @37614 has 60 MA's), (11, 37650), (12, 37764), (14, 37824), (15, 37872), (16, 37875),

Gene: Familton\_23 Start: 10327, Stop: 10701, Start Num: 7

Candidate Starts for Familton\_23:

(Start: 7 @10327 has 167 MA's), (Start: 8 @10357 has 1 MA's), (Start: 10 @10366 has 60 MA's), (11, 10402), (12, 10516), (14, 10576), (20, 10687),

Gene: Fancypants\_53 Start: 37855, Stop: 38187, Start Num: 10

Candidate Starts for Fancypants\_53:

(Start: 7 @37816 has 167 MA's), (Start: 8 @37846 has 1 MA's), (Start: 10 @37855 has 60 MA's), (11, 37891), (12, 38005), (14, 38065), (15, 38113), (16, 38116),

Gene: Fastidio\_85 Start: 47111, Stop: 47443, Start Num: 10

Candidate Starts for Fastidio\_85:

(Start: 7 @47072 has 167 MA's), (Start: 8 @47102 has 1 MA's), (Start: 10 @47111 has 60 MA's), (11, 47147), (12, 47261), (14, 47321), (15, 47369), (16, 47372),

Gene: Firecracker\_23 Start: 10650, Stop: 10994, Start Num: 7

Candidate Starts for Firecracker\_23:

(Start: 7 @10650 has 167 MA's), (Start: 8 @10680 has 1 MA's), (Start: 10 @10689 has 60 MA's), (11, 10725), (12, 10839), (14, 10899), (20, 10980),

Gene: Flathead\_83 Start: 49275, Stop: 49646, Start Num: 7

Candidate Starts for Flathead\_83:

(Start: 7 @49275 has 167 MA's), (Start: 8 @49305 has 1 MA's), (Start: 10 @49314 has 60 MA's), (11, 49350), (12, 49464), (14, 49524), (15, 49572), (16, 49575),

Gene: Florinda\_92 Start: 51063, Stop: 51434, Start Num: 7

Candidate Starts for Florinda\_92:

(Start: 7 @51063 has 167 MA's), (Start: 8 @51093 has 1 MA's), (Start: 10 @51102 has 60 MA's), (11, 51138), (12, 51252), (14, 51312), (15, 51360), (16, 51363),

Gene: FoulBall\_22 Start: 10327, Stop: 10701, Start Num: 7

Candidate Starts for FoulBall\_22:

(Start: 7 @10327 has 167 MA's), (Start: 8 @10357 has 1 MA's), (Start: 10 @10366 has 60 MA's), (11, 10402), (12, 10516), (14, 10576), (20, 10687),

Gene: Frankie\_77 Start: 46272, Stop: 46604, Start Num: 10

Candidate Starts for Frankie\_77:

(Start: 3 @46206 has 19 MA's), (Start: 7 @46233 has 167 MA's), (Start: 9 @46266 has 15 MA's), (Start: 10 @46272 has 60 MA's), (11, 46308), (12, 46422),

Gene: FreddyB\_91 Start: 50402, Stop: 50773, Start Num: 7

Candidate Starts for FreddyB\_91:

(Start: 7 @50402 has 167 MA's), (Start: 8 @50432 has 1 MA's), (Start: 10 @50441 has 60 MA's), (11, 50477), (12, 50591), (14, 50651), (15, 50699), (16, 50702),

Gene: Frosty24\_59 Start: 40199, Stop: 40570, Start Num: 7

Candidate Starts for Frosty24\_59:

(Start: 7 @40199 has 167 MA's), (Start: 8 @40229 has 1 MA's), (Start: 10 @40238 has 60 MA's), (11, 40274), (12, 40388), (14, 40448), (15, 40496),

Gene: Fruitloop\_71 Start: 46844, Stop: 47176, Start Num: 10

Candidate Starts for Fruitloop\_71:

(Start: 3 @46778 has 19 MA's), (Start: 7 @46805 has 167 MA's), (Start: 9 @46838 has 15 MA's), (Start: 10 @46844 has 60 MA's), (11, 46880), (12, 46994),

Gene: Fulbright\_57 Start: 36571, Stop: 36909, Start Num: 9

Candidate Starts for Fulbright\_57:



(Start: 3 @36511 has 19 MA's), (Start: 7 @36538 has 167 MA's), (Start: 9 @36571 has 15 MA's),  
(Start: 10 @36577 has 60 MA's), (11, 36613), (12, 36727),

Gene: GUmbie\_74 Start: 47610, Stop: 47981, Start Num: 7

Candidate Starts for GUmbie\_74:

(Start: 7 @47610 has 167 MA's), (Start: 8 @47640 has 1 MA's), (Start: 10 @47649 has 60 MA's), (11,  
47685), (12, 47799), (14, 47859), (15, 47907), (16, 47910),

Gene: Galactic\_84 Start: 49491, Stop: 49823, Start Num: 10

Candidate Starts for Galactic\_84:

(Start: 10 @49491 has 60 MA's), (11, 49527), (12, 49641), (14, 49701), (15, 49749), (16, 49752),

Gene: Gandalph\_81 Start: 46546, Stop: 46917, Start Num: 7

Candidate Starts for Gandalph\_81:

(Start: 7 @46546 has 167 MA's), (Start: 8 @46576 has 1 MA's), (Start: 10 @46585 has 60 MA's), (11,  
46621), (12, 46735), (14, 46795), (15, 46843), (16, 46846),

Gene: Gex\_60 Start: 37893, Stop: 38231, Start Num: 9

Candidate Starts for Gex\_60:

(Start: 3 @37833 has 19 MA's), (Start: 7 @37860 has 167 MA's), (Start: 9 @37893 has 15 MA's),  
(Start: 10 @37899 has 60 MA's), (11, 37935), (12, 38049),

Gene: Gideon\_47 Start: 35578, Stop: 35967, Start Num: 3

Candidate Starts for Gideon\_47:

(Start: 3 @35578 has 19 MA's), (Start: 7 @35605 has 167 MA's), (Start: 9 @35638 has 15 MA's),  
(Start: 10 @35644 has 60 MA's), (11, 35680), (12, 35794),

Gene: GigiOuiOui\_77 Start: 48271, Stop: 48642, Start Num: 7

Candidate Starts for GigiOuiOui\_77:

(Start: 7 @48271 has 167 MA's), (Start: 8 @48301 has 1 MA's), (Start: 10 @48310 has 60 MA's), (11,  
48346), (12, 48460), (14, 48520), (15, 48568), (16, 48571),

Gene: Girafales\_89 Start: 50668, Stop: 51039, Start Num: 7

Candidate Starts for Girafales\_89:

(Start: 7 @50668 has 167 MA's), (Start: 8 @50698 has 1 MA's), (Start: 10 @50707 has 60 MA's), (11,  
50743), (12, 50857), (14, 50917), (15, 50965), (16, 50968),

Gene: Girr\_80 Start: 49497, Stop: 49802, Start Num: 7

Candidate Starts for Girr\_80:

(Start: 7 @49497 has 167 MA's), (Start: 8 @49527 has 1 MA's), (Start: 10 @49536 has 60 MA's), (11,  
49572), (12, 49686), (14, 49746),

Gene: GodPhather\_86 Start: 58591, Stop: 58989, Start Num: 3

Candidate Starts for GodPhather\_86:

(Start: 3 @58591 has 19 MA's), (Start: 7 @58618 has 167 MA's), (Start: 9 @58651 has 15 MA's),  
(Start: 10 @58657 has 60 MA's), (11, 58693), (12, 58807), (17, 58924),

Gene: Gomashi\_57 Start: 39877, Stop: 40248, Start Num: 7

Candidate Starts for Gomashi\_57:

(Start: 3 @39850 has 19 MA's), (Start: 7 @39877 has 167 MA's), (Start: 9 @39910 has 15 MA's),  
(Start: 10 @39916 has 60 MA's), (11, 39952), (12, 40066),

Gene: Gorge\_82 Start: 50030, Stop: 50401, Start Num: 7

Candidate Starts for Gorge\_82:

(Start: 7 @50030 has 167 MA's), (Start: 8 @50060 has 1 MA's), (Start: 10 @50069 has 60 MA's), (11, 50105), (12, 50219), (14, 50279), (15, 50327), (16, 50330),

Gene: Grimmer\_98 Start: 50986, Stop: 51348, Start Num: 3

Candidate Starts for Grimmer\_98:

(Start: 3 @50986 has 19 MA's), (Start: 7 @51013 has 167 MA's), (Start: 9 @51046 has 15 MA's), (Start: 10 @51052 has 60 MA's), (11, 51088), (12, 51202),

Gene: Hades\_83 Start: 47779, Stop: 48150, Start Num: 7

Candidate Starts for Hades\_83:

(Start: 7 @47779 has 167 MA's), (Start: 8 @47809 has 1 MA's), (Start: 10 @47818 has 60 MA's), (11, 47854), (12, 47968), (14, 48028), (15, 48076), (16, 48079),

Gene: Halo\_56 Start: 38943, Stop: 39314, Start Num: 7

Candidate Starts for Halo\_56:

(Start: 3 @38916 has 19 MA's), (Start: 7 @38943 has 167 MA's), (Start: 9 @38976 has 15 MA's), (Start: 10 @38982 has 60 MA's), (11, 39018), (12, 39132),

Gene: Hamulus\_55 Start: 38658, Stop: 39029, Start Num: 7

Candidate Starts for Hamulus\_55:

(Start: 7 @38658 has 167 MA's), (Start: 9 @38691 has 15 MA's), (Start: 10 @38697 has 60 MA's), (11, 38733), (12, 38847),

Gene: Harley\_82 Start: 48875, Stop: 49246, Start Num: 7

Candidate Starts for Harley\_82:

(Start: 7 @48875 has 167 MA's), (Start: 8 @48905 has 1 MA's), (Start: 10 @48914 has 60 MA's), (11, 48950), (12, 49064), (14, 49124), (15, 49172), (16, 49175),

Gene: Hilltopfarm\_93 Start: 59628, Stop: 59999, Start Num: 7

Candidate Starts for Hilltopfarm\_93:

(Start: 7 @59628 has 167 MA's), (Start: 8 @59658 has 1 MA's), (Start: 10 @59667 has 60 MA's), (11, 59703), (12, 59817), (14, 59877), (15, 59925), (16, 59928),

Gene: Hlubikazi\_78 Start: 46786, Stop: 47157, Start Num: 7

Candidate Starts for Hlubikazi\_78:

(Start: 7 @46786 has 167 MA's), (Start: 8 @46816 has 1 MA's), (Start: 10 @46825 has 60 MA's), (11, 46861), (12, 46975), (14, 47035), (15, 47083), (16, 47086),

Gene: Hope\_57 Start: 39158, Stop: 39529, Start Num: 7

Candidate Starts for Hope\_57:

(Start: 7 @39158 has 167 MA's), (Start: 8 @39188 has 1 MA's), (Start: 10 @39197 has 60 MA's), (11, 39233), (12, 39347), (14, 39407), (15, 39455), (16, 39458),

Gene: Hotshotbaby7\_53 Start: 37726, Stop: 38049, Start Num: 10

Candidate Starts for Hotshotbaby7\_53:

(Start: 3 @37660 has 19 MA's), (Start: 7 @37687 has 167 MA's), (Start: 9 @37720 has 15 MA's), (Start: 10 @37726 has 60 MA's), (11, 37762), (12, 37876),

Gene: IMpilo\_78 Start: 47215, Stop: 47547, Start Num: 10

Candidate Starts for IMpilo\_78:

(Start: 8 @47206 has 1 MA's), (Start: 10 @47215 has 60 MA's), (11, 47251), (12, 47365), (14, 47425), (15, 47473), (16, 47476),

Gene: lbOuu\_81 Start: 47956, Stop: 48288, Start Num: 10

Candidate Starts for lbOuu\_81:

(Start: 7 @47917 has 167 MA's), (Start: 8 @47947 has 1 MA's), (Start: 10 @47956 has 60 MA's), (11, 47992), (12, 48106), (14, 48166), (15, 48214), (16, 48217),

Gene: Ibrahim\_35 Start: 30289, Stop: 29957, Start Num: 10

Candidate Starts for Ibrahim\_35:

(Start: 3 @30355 has 19 MA's), (Start: 7 @30328 has 167 MA's), (Start: 9 @30295 has 15 MA's), (Start: 10 @30289 has 60 MA's), (11, 30253), (12, 30139),

Gene: Idergollasper\_22 Start: 10327, Stop: 10701, Start Num: 7

Candidate Starts for Idergollasper\_22:

(Start: 7 @10327 has 167 MA's), (Start: 8 @10357 has 1 MA's), (Start: 10 @10366 has 60 MA's), (11, 10402), (12, 10516), (14, 10576), (20, 10687),

Gene: Island3\_51 Start: 36162, Stop: 36533, Start Num: 7

Candidate Starts for Island3\_51:

(Start: 7 @36162 has 167 MA's), (Start: 8 @36192 has 1 MA's), (Start: 10 @36201 has 60 MA's), (11, 36237), (12, 36351), (14, 36411), (15, 36459), (16, 36462),

Gene: James\_84 Start: 51001, Stop: 51372, Start Num: 7

Candidate Starts for James\_84:

(Start: 7 @51001 has 167 MA's), (Start: 8 @51031 has 1 MA's), (Start: 10 @51040 has 60 MA's), (11, 51076), (12, 51190), (14, 51250), (15, 51298), (16, 51301),

Gene: Jane\_59 Start: 39937, Stop: 40308, Start Num: 7

Candidate Starts for Jane\_59:

(Start: 7 @39937 has 167 MA's), (Start: 8 @39967 has 1 MA's), (Start: 10 @39976 has 60 MA's), (11, 40012), (12, 40126), (14, 40186), (15, 40234), (16, 40237),

Gene: JangDynasty\_22 Start: 10416, Stop: 10790, Start Num: 7

Candidate Starts for JangDynasty\_22:

(Start: 7 @10416 has 167 MA's), (Start: 8 @10446 has 1 MA's), (Start: 10 @10455 has 60 MA's), (11, 10491), (12, 10605), (14, 10665), (20, 10776),

Gene: Jant\_90 Start: 49772, Stop: 50104, Start Num: 10

Candidate Starts for Jant\_90:

(Start: 7 @49733 has 167 MA's), (Start: 8 @49763 has 1 MA's), (Start: 10 @49772 has 60 MA's), (11, 49808), (12, 49922), (14, 49982), (15, 50030), (16, 50033),

Gene: Jacob\_83 Start: 50599, Stop: 50970, Start Num: 7

Candidate Starts for Jacob\_83:

(Start: 7 @50599 has 167 MA's), (Start: 8 @50629 has 1 MA's), (Start: 10 @50638 has 60 MA's), (11, 50674), (12, 50788), (14, 50848), (15, 50896), (16, 50899),

Gene: Jinglebell\_84 Start: 48864, Stop: 49235, Start Num: 7

Candidate Starts for Jinglebell\_84:

(Start: 7 @48864 has 167 MA's), (Start: 8 @48894 has 1 MA's), (Start: 10 @48903 has 60 MA's), (11, 48939), (12, 49053), (14, 49113), (15, 49161), (16, 49164),

Gene: Jolene\_56 Start: 39111, Stop: 39473, Start Num: 7

Candidate Starts for Jolene\_56:

(Start: 3 @39084 has 19 MA's), (Start: 7 @39111 has 167 MA's), (Start: 9 @39144 has 15 MA's),  
(Start: 10 @39150 has 60 MA's), (11, 39186), (12, 39300),

Gene: Jonghyun\_51 Start: 37660, Stop: 38049, Start Num: 3  
Candidate Starts for Jonghyun\_51:

(Start: 3 @37660 has 19 MA's), (Start: 7 @37687 has 167 MA's), (Start: 9 @37720 has 15 MA's),  
(Start: 10 @37726 has 60 MA's), (11, 37762), (12, 37876),

Gene: JorRay\_58 Start: 39158, Stop: 39529, Start Num: 7  
Candidate Starts for JorRay\_58:

(Start: 7 @39158 has 167 MA's), (Start: 8 @39188 has 1 MA's), (Start: 10 @39197 has 60 MA's), (11,  
39233), (12, 39347), (14, 39407), (15, 39455), (16, 39458),

Gene: Juice456\_80 Start: 48780, Stop: 49151, Start Num: 7  
Candidate Starts for Juice456\_80:

(Start: 7 @48780 has 167 MA's), (Start: 8 @48810 has 1 MA's), (Start: 10 @48819 has 60 MA's), (11,  
48855), (12, 48969), (14, 49029), (15, 49077), (16, 49080),

Gene: Juniper1\_83 Start: 49552, Stop: 49887, Start Num: 7  
Candidate Starts for Juniper1\_83:

(Start: 3 @49525 has 19 MA's), (Start: 7 @49552 has 167 MA's), (Start: 9 @49585 has 15 MA's),  
(Start: 10 @49591 has 60 MA's), (11, 49627), (12, 49741),

Gene: Kareem\_59 Start: 39937, Stop: 40308, Start Num: 7  
Candidate Starts for Kareem\_59:

(Start: 7 @39937 has 167 MA's), (Start: 8 @39967 has 1 MA's), (Start: 10 @39976 has 60 MA's), (11,  
40012), (12, 40126), (14, 40186), (15, 40234), (16, 40237),

Gene: Kasen3\_59 Start: 39926, Stop: 40297, Start Num: 7  
Candidate Starts for Kasen3\_59:

(Start: 7 @39926 has 167 MA's), (Start: 8 @39956 has 1 MA's), (Start: 10 @39965 has 60 MA's), (11,  
40001), (12, 40115), (14, 40175), (15, 40223), (16, 40226),

Gene: Kersh\_85 Start: 51387, Stop: 51758, Start Num: 7  
Candidate Starts for Kersh\_85:

(Start: 7 @51387 has 167 MA's), (Start: 8 @51417 has 1 MA's), (Start: 10 @51426 has 60 MA's), (11,  
51462), (12, 51576), (14, 51636), (15, 51684), (16, 51687),

Gene: Kimberlium\_84 Start: 48880, Stop: 49251, Start Num: 7  
Candidate Starts for Kimberlium\_84:

(Start: 7 @48880 has 167 MA's), (Start: 8 @48910 has 1 MA's), (Start: 10 @48919 has 60 MA's), (11,  
48955), (12, 49069), (14, 49129), (15, 49177), (16, 49180),

Gene: KingJulian\_76 Start: 49397, Stop: 49729, Start Num: 10  
Candidate Starts for KingJulian\_76:

(Start: 7 @49358 has 167 MA's), (Start: 8 @49388 has 1 MA's), (Start: 10 @49397 has 60 MA's), (11,  
49433), (12, 49547), (14, 49607), (15, 49655), (16, 49658),

Gene: Kingsley\_88 Start: 52466, Stop: 52804, Start Num: 9  
Candidate Starts for Kingsley\_88:

(Start: 3 @52406 has 19 MA's), (Start: 7 @52433 has 167 MA's), (Start: 9 @52466 has 15 MA's),  
(Start: 10 @52472 has 60 MA's), (11, 52508), (12, 52622),

Gene: Koella\_71 Start: 44654, Stop: 45025, Start Num: 7

Candidate Starts for Koella\_71:

(Start: 7 @44654 has 167 MA's), (Start: 8 @44684 has 1 MA's), (Start: 10 @44693 has 60 MA's), (11, 44729), (12, 44843), (14, 44903), (15, 44951), (16, 44954),

Gene: Krili\_23 Start: 10686, Stop: 11060, Start Num: 7

Candidate Starts for Krili\_23:

(Start: 7 @10686 has 167 MA's), (Start: 8 @10716 has 1 MA's), (Start: 10 @10725 has 60 MA's), (11, 10761), (12, 10875), (14, 10935), (20, 11046),

Gene: LastJedi\_73 Start: 47229, Stop: 47600, Start Num: 7

Candidate Starts for LastJedi\_73:

(Start: 7 @47229 has 167 MA's), (Start: 8 @47259 has 1 MA's), (Start: 10 @47268 has 60 MA's), (11, 47304), (12, 47418), (14, 47478), (15, 47526), (16, 47529),

Gene: Latretium\_85 Start: 49190, Stop: 49522, Start Num: 10

Candidate Starts for Latretium\_85:

(Start: 3 @49124 has 19 MA's), (Start: 7 @49151 has 167 MA's), (Start: 9 @49184 has 15 MA's), (Start: 10 @49190 has 60 MA's), (11, 49226), (12, 49340), (14, 49400), (15, 49448), (16, 49451),

Gene: Leozinho\_81 Start: 47032, Stop: 47403, Start Num: 7

Candidate Starts for Leozinho\_81:

(Start: 7 @47032 has 167 MA's), (Start: 8 @47062 has 1 MA's), (Start: 10 @47071 has 60 MA's), (11, 47107), (12, 47221), (14, 47281), (15, 47329), (16, 47332),

Gene: LilMoolah\_84 Start: 50169, Stop: 50540, Start Num: 7

Candidate Starts for LilMoolah\_84:

(Start: 7 @50169 has 167 MA's), (Start: 8 @50199 has 1 MA's), (Start: 10 @50208 has 60 MA's), (11, 50244), (12, 50358), (14, 50418), (15, 50466), (16, 50469),

Gene: LittleShirley\_89 Start: 50387, Stop: 50719, Start Num: 10

Candidate Starts for LittleShirley\_89:

(Start: 7 @50348 has 167 MA's), (Start: 8 @50378 has 1 MA's), (Start: 10 @50387 has 60 MA's), (11, 50423), (12, 50537), (14, 50597), (15, 50645), (16, 50648),

Gene: Lizziana\_85 Start: 50517, Stop: 50849, Start Num: 10

Candidate Starts for Lizziana\_85:

(Start: 7 @50478 has 167 MA's), (Start: 8 @50508 has 1 MA's), (Start: 10 @50517 has 60 MA's), (11, 50553), (12, 50667), (14, 50727), (15, 50775), (16, 50778),

Gene: Llama\_84 Start: 48720, Stop: 49091, Start Num: 7

Candidate Starts for Llama\_84:

(Start: 7 @48720 has 167 MA's), (Start: 8 @48750 has 1 MA's), (Start: 10 @48759 has 60 MA's), (11, 48795), (12, 48909), (14, 48969), (15, 49017), (16, 49020),

Gene: Llij\_79 Start: 46980, Stop: 47351, Start Num: 7

Candidate Starts for Llij\_79:

(Start: 7 @46980 has 167 MA's), (Start: 8 @47010 has 1 MA's), (Start: 10 @47019 has 60 MA's), (11, 47055), (12, 47169), (14, 47229), (15, 47277), (16, 47280),

Gene: Lorde\_83 Start: 46267, Stop: 46638, Start Num: 7

Candidate Starts for Lorde\_83:

(Start: 7 @46267 has 167 MA's), (Start: 8 @46297 has 1 MA's), (Start: 10 @46306 has 60 MA's), (11, 46342), (12, 46456), (14, 46516), (15, 46564), (16, 46567),

Gene: LouisV14\_60 Start: 42118, Stop: 42489, Start Num: 7

Candidate Starts for LouisV14\_60:

(Start: 7 @42118 has 167 MA's), (Start: 8 @42148 has 1 MA's), (Start: 10 @42157 has 60 MA's), (11, 42193), (12, 42307), (14, 42367), (15, 42415), (16, 42418),

Gene: LunaBlu\_87 Start: 50293, Stop: 50664, Start Num: 7

Candidate Starts for LunaBlu\_87:

(Start: 7 @50293 has 167 MA's), (Start: 8 @50323 has 1 MA's), (Start: 10 @50332 has 60 MA's), (11, 50368), (12, 50482), (14, 50542), (15, 50590), (16, 50593),

Gene: MadKillah\_24 Start: 10719, Stop: 11093, Start Num: 7

Candidate Starts for MadKillah\_24:

(Start: 7 @10719 has 167 MA's), (Start: 8 @10749 has 1 MA's), (Start: 10 @10758 has 60 MA's), (11, 10794), (12, 10908), (14, 10968), (20, 11079),

Gene: MadMen\_81 Start: 48084, Stop: 48416, Start Num: 10

Candidate Starts for MadMen\_81:

(Start: 7 @48045 has 167 MA's), (Start: 8 @48075 has 1 MA's), (Start: 10 @48084 has 60 MA's), (11, 48120), (12, 48234), (14, 48294), (15, 48342), (16, 48345),

Gene: Mahavrat\_84 Start: 48581, Stop: 48916, Start Num: 7

Candidate Starts for Mahavrat\_84:

(Start: 3 @48554 has 19 MA's), (Start: 7 @48581 has 167 MA's), (Start: 9 @48614 has 15 MA's), (Start: 10 @48620 has 60 MA's), (11, 48656), (12, 48770),

Gene: Mandlovu\_78 Start: 46728, Stop: 47099, Start Num: 7

Candidate Starts for Mandlovu\_78:

(Start: 7 @46728 has 167 MA's), (Start: 8 @46758 has 1 MA's), (Start: 10 @46767 has 60 MA's), (11, 46803), (12, 46917), (14, 46977), (15, 47025), (16, 47028),

Gene: Mantra\_80 Start: 49108, Stop: 49374, Start Num: 10

Candidate Starts for Mantra\_80:

(Start: 7 @49069 has 167 MA's), (Start: 8 @49099 has 1 MA's), (Start: 10 @49108 has 60 MA's), (11, 49144), (12, 49258), (14, 49318),

Gene: Marmie\_53 Start: 37626, Stop: 37997, Start Num: 7

Candidate Starts for Marmie\_53:

(Start: 3 @37599 has 19 MA's), (Start: 7 @37626 has 167 MA's), (Start: 9 @37659 has 15 MA's), (Start: 10 @37665 has 60 MA's), (11, 37701), (12, 37815),

Gene: Martik\_91 Start: 53788, Stop: 54120, Start Num: 10

Candidate Starts for Martik\_91:

(Start: 3 @53722 has 19 MA's), (Start: 7 @53749 has 167 MA's), (Start: 9 @53782 has 15 MA's), (Start: 10 @53788 has 60 MA's), (11, 53824), (12, 53938),

Gene: Mattes\_81 Start: 49773, Stop: 50105, Start Num: 10

Candidate Starts for Mattes\_81:

(Start: 7 @49734 has 167 MA's), (Start: 8 @49764 has 1 MA's), (Start: 10 @49773 has 60 MA's), (11, 49809), (12, 49923), (14, 49983), (15, 50031), (16, 50034),

Gene: Melissauren88\_84 Start: 49284, Stop: 49616, Start Num: 10  
Candidate Starts for Melissauren88\_84:  
(Start: 3 @49218 has 19 MA's), (Start: 7 @49245 has 167 MA's), (Start: 9 @49278 has 15 MA's),  
(Start: 10 @49284 has 60 MA's), (11, 49320), (12, 49434),

Gene: Melville\_64 Start: 37454, Stop: 37786, Start Num: 10  
Candidate Starts for Melville\_64:  
(Start: 3 @37388 has 19 MA's), (Start: 7 @37415 has 167 MA's), (Start: 9 @37448 has 15 MA's),  
(Start: 10 @37454 has 60 MA's), (11, 37490), (12, 37604),

Gene: MilanaBonita\_73 Start: 46918, Stop: 47250, Start Num: 10  
Candidate Starts for MilanaBonita\_73:  
(Start: 7 @46879 has 167 MA's), (Start: 8 @46909 has 1 MA's), (Start: 10 @46918 has 60 MA's), (11,  
46954), (12, 47068), (14, 47128), (15, 47176), (16, 47179),

Gene: MilleniumForce\_55 Start: 39071, Stop: 39469, Start Num: 3  
Candidate Starts for MilleniumForce\_55:  
(Start: 3 @39071 has 19 MA's), (Start: 7 @39098 has 167 MA's), (Start: 9 @39131 has 15 MA's),  
(Start: 10 @39137 has 60 MA's), (12, 39287),

Gene: MinionDave\_82 Start: 49981, Stop: 50352, Start Num: 7  
Candidate Starts for MinionDave\_82:  
(Start: 7 @49981 has 167 MA's), (Start: 8 @50011 has 1 MA's), (Start: 10 @50020 has 60 MA's), (11,  
50056), (12, 50170), (14, 50230), (15, 50278), (16, 50281),

Gene: Minnie\_87 Start: 53340, Stop: 53738, Start Num: 3  
Candidate Starts for Minnie\_87:  
(Start: 3 @53340 has 19 MA's), (Start: 7 @53367 has 167 MA's), (Start: 9 @53400 has 15 MA's),  
(Start: 10 @53406 has 60 MA's), (11, 53442), (12, 53556),

Gene: Misha28\_60 Start: 39332, Stop: 39664, Start Num: 10  
Candidate Starts for Misha28\_60:  
(Start: 7 @39293 has 167 MA's), (Start: 8 @39323 has 1 MA's), (Start: 10 @39332 has 60 MA's), (11,  
39368), (12, 39482), (14, 39542), (15, 39590), (16, 39593),

Gene: MisterCuddles\_81 Start: 49497, Stop: 49802, Start Num: 7  
Candidate Starts for MisterCuddles\_81:  
(Start: 7 @49497 has 167 MA's), (Start: 8 @49527 has 1 MA's), (Start: 10 @49536 has 60 MA's), (11,  
49572), (12, 49686), (14, 49746),

Gene: Modragons\_82 Start: 48747, Stop: 49079, Start Num: 10  
Candidate Starts for Modragons\_82:  
(Start: 7 @48708 has 167 MA's), (Start: 8 @48738 has 1 MA's), (Start: 10 @48747 has 60 MA's), (11,  
48783), (12, 48897), (14, 48957), (15, 49005), (16, 49008),

Gene: Moonbeam\_81 Start: 49081, Stop: 49452, Start Num: 7  
Candidate Starts for Moonbeam\_81:  
(Start: 7 @49081 has 167 MA's), (Start: 8 @49111 has 1 MA's), (Start: 10 @49120 has 60 MA's), (11,  
49156), (12, 49270), (14, 49330), (15, 49378), (16, 49381),

Gene: Mori\_23 Start: 10557, Stop: 10931, Start Num: 7  
Candidate Starts for Mori\_23:

(Start: 7 @10557 has 167 MA's), (Start: 8 @10587 has 1 MA's), (Start: 10 @10596 has 60 MA's), (11, 10632), (12, 10746), (14, 10806), (20, 10917),

Gene: Mova\_82 Start: 48387, Stop: 48758, Start Num: 7

Candidate Starts for Mova\_82:

(Start: 7 @48387 has 167 MA's), (Start: 8 @48417 has 1 MA's), (Start: 10 @48426 has 60 MA's), (11, 48462), (12, 48576), (14, 48636), (15, 48684), (16, 48687),

Gene: Mowgli\_53 Start: 37665, Stop: 37997, Start Num: 10

Candidate Starts for Mowgli\_53:

(Start: 3 @37599 has 19 MA's), (Start: 7 @37626 has 167 MA's), (Start: 9 @37659 has 15 MA's), (Start: 10 @37665 has 60 MA's), (11, 37701), (12, 37815),

Gene: MulchExplorer\_86 Start: 48590, Stop: 48922, Start Num: 10

Candidate Starts for MulchExplorer\_86:

(Start: 7 @48551 has 167 MA's), (Start: 8 @48581 has 1 MA's), (Start: 10 @48590 has 60 MA's), (11, 48626), (12, 48740), (14, 48800), (15, 48848), (16, 48851),

Gene: MulchSalad\_89 Start: 50988, Stop: 51320, Start Num: 10

Candidate Starts for MulchSalad\_89:

(Start: 8 @50979 has 1 MA's), (Start: 10 @50988 has 60 MA's), (11, 51024), (12, 51138), (14, 51198), (15, 51246), (16, 51249),

Gene: Murai\_23 Start: 10558, Stop: 10932, Start Num: 7

Candidate Starts for Murai\_23:

(Start: 7 @10558 has 167 MA's), (Start: 8 @10588 has 1 MA's), (Start: 10 @10597 has 60 MA's), (11, 10633), (12, 10747), (14, 10807), (20, 10918),

Gene: NewHope4\_86 Start: 48427, Stop: 48759, Start Num: 10

Candidate Starts for NewHope4\_86:

(Start: 7 @48388 has 167 MA's), (Start: 8 @48418 has 1 MA's), (Start: 10 @48427 has 60 MA's), (11, 48463), (12, 48577), (14, 48637), (15, 48685), (16, 48688),

Gene: NiebruSaylor\_23 Start: 10558, Stop: 10932, Start Num: 7

Candidate Starts for NiebruSaylor\_23:

(Start: 7 @10558 has 167 MA's), (Start: 8 @10588 has 1 MA's), (Start: 10 @10597 has 60 MA's), (11, 10633), (12, 10747), (14, 10807), (20, 10918),

Gene: Nivrat\_82 Start: 50042, Stop: 50413, Start Num: 7

Candidate Starts for Nivrat\_82:

(Start: 7 @50042 has 167 MA's), (Start: 8 @50072 has 1 MA's), (Start: 10 @50081 has 60 MA's), (11, 50117), (12, 50231), (14, 50291), (15, 50339), (16, 50342),

Gene: NormanBulbieJr\_76 Start: 48668, Stop: 49039, Start Num: 7

Candidate Starts for NormanBulbieJr\_76:

(Start: 7 @48668 has 167 MA's), (Start: 8 @48698 has 1 MA's), (Start: 10 @48707 has 60 MA's), (11, 48743), (12, 48857), (14, 48917), (15, 48965), (16, 48968),

Gene: Ochi17\_83 Start: 48315, Stop: 48686, Start Num: 7

Candidate Starts for Ochi17\_83:

(Start: 7 @48315 has 167 MA's), (Start: 8 @48345 has 1 MA's), (Start: 10 @48354 has 60 MA's), (11, 48390), (12, 48504), (14, 48564), (15, 48612), (16, 48615),



Gene: OctaviousRex\_57 Start: 39853, Stop: 40224, Start Num: 7  
Candidate Starts for OctaviousRex\_57:  
(Start: 7 @39853 has 167 MA's), (Start: 8 @39883 has 1 MA's), (Start: 10 @39892 has 60 MA's), (11, 39928), (12, 40042), (14, 40102), (15, 40150), (16, 40153),

Gene: OfUltron\_85 Start: 48864, Stop: 49235, Start Num: 7  
Candidate Starts for OfUltron\_85:  
(Start: 7 @48864 has 167 MA's), (Start: 8 @48894 has 1 MA's), (Start: 10 @48903 has 60 MA's), (11, 48939), (12, 49053), (14, 49113), (15, 49161), (16, 49164),

Gene: Ogopogo\_52 Start: 36584, Stop: 36955, Start Num: 7  
Candidate Starts for Ogopogo\_52:  
(Start: 7 @36584 has 167 MA's), (Start: 8 @36614 has 1 MA's), (Start: 10 @36623 has 60 MA's), (11, 36659), (12, 36773), (14, 36833), (15, 36881), (16, 36884),

Gene: Oksu\_84 Start: 50414, Stop: 50746, Start Num: 10  
Candidate Starts for Oksu\_84:  
(Start: 7 @50375 has 167 MA's), (Start: 8 @50405 has 1 MA's), (Start: 10 @50414 has 60 MA's), (11, 50450), (12, 50564), (14, 50624), (15, 50672), (16, 50675),

Gene: Olga\_59 Start: 39909, Stop: 40247, Start Num: 9  
Candidate Starts for Olga\_59:  
(Start: 3 @39849 has 19 MA's), (Start: 7 @39876 has 167 MA's), (Start: 9 @39909 has 15 MA's), (Start: 10 @39915 has 60 MA's), (11, 39951), (12, 40065),

Gene: OlympiaSaint\_83 Start: 49943, Stop: 50314, Start Num: 7  
Candidate Starts for OlympiaSaint\_83:  
(Start: 7 @49943 has 167 MA's), (Start: 8 @49973 has 1 MA's), (Start: 10 @49982 has 60 MA's), (11, 50018), (12, 50132), (14, 50192), (15, 50240), (16, 50243),

Gene: Ovechkin\_51 Start: 37481, Stop: 37813, Start Num: 10  
Candidate Starts for Ovechkin\_51:  
(Start: 3 @37415 has 19 MA's), (Start: 7 @37442 has 167 MA's), (Start: 9 @37475 has 15 MA's), (Start: 10 @37481 has 60 MA's), (11, 37517), (12, 37631),

Gene: OwlsT2W\_82 Start: 48750, Stop: 49121, Start Num: 7  
Candidate Starts for OwlsT2W\_82:  
(Start: 7 @48750 has 167 MA's), (Start: 8 @48780 has 1 MA's), (Start: 10 @48789 has 60 MA's), (11, 48825), (12, 48939), (13, 48996), (14, 48999), (15, 49047), (16, 49050),

Gene: PMC\_80 Start: 48476, Stop: 48808, Start Num: 10  
Candidate Starts for PMC\_80:  
(Start: 7 @48437 has 167 MA's), (Start: 8 @48467 has 1 MA's), (Start: 10 @48476 has 60 MA's), (11, 48512), (12, 48626), (14, 48686), (15, 48734), (16, 48737),

Gene: PR\_69 Start: 50566, Stop: 50937, Start Num: 7  
Candidate Starts for PR\_69:  
(Start: 7 @50566 has 167 MA's), (Start: 8 @50596 has 1 MA's), (Start: 10 @50605 has 60 MA's), (11, 50641), (12, 50755), (14, 50815), (15, 50863), (16, 50866),

Gene: Pacc40\_75 Start: 49133, Stop: 49504, Start Num: 7  
Candidate Starts for Pacc40\_75:

(Start: 7 @49133 has 167 MA's), (Start: 8 @49163 has 1 MA's), (Start: 10 @49172 has 60 MA's), (11, 49208), (12, 49322), (14, 49382), (15, 49430), (16, 49433),

Gene: Parmesanjohn\_59 Start: 37903, Stop: 38235, Start Num: 10

Candidate Starts for Parmesanjohn\_59:

(Start: 3 @37837 has 19 MA's), (Start: 7 @37864 has 167 MA's), (Start: 9 @37897 has 15 MA's), (Start: 10 @37903 has 60 MA's), (11, 37939), (12, 38053),

Gene: Peeb\_54 Start: 38273, Stop: 38644, Start Num: 7

Candidate Starts for Peeb\_54:

(Start: 7 @38273 has 167 MA's), (Start: 8 @38303 has 1 MA's), (Start: 10 @38312 has 60 MA's), (11, 38348), (12, 38462), (14, 38522), (15, 38570), (16, 38573),

Gene: Periodt\_54 Start: 38465, Stop: 38836, Start Num: 7

Candidate Starts for Periodt\_54:

(Start: 7 @38465 has 167 MA's), (Start: 8 @38495 has 1 MA's), (Start: 10 @38504 has 60 MA's), (11, 38540), (12, 38654), (14, 38714), (15, 38762), (16, 38765),

Gene: Phalconet\_80 Start: 48566, Stop: 48937, Start Num: 7

Candidate Starts for Phalconet\_80:

(Start: 7 @48566 has 167 MA's), (Start: 8 @48596 has 1 MA's), (Start: 10 @48605 has 60 MA's), (11, 48641), (12, 48755), (14, 48815), (15, 48863), (16, 48866),

Gene: Phanphagia\_82 Start: 49940, Stop: 50311, Start Num: 7

Candidate Starts for Phanphagia\_82:

(Start: 7 @49940 has 167 MA's), (Start: 8 @49970 has 1 MA's), (Start: 10 @49979 has 60 MA's), (11, 50015), (12, 50129), (14, 50189), (15, 50237), (16, 50240),

Gene: Phasih\_76 Start: 47316, Stop: 47648, Start Num: 10

Candidate Starts for Phasih\_76:

(Start: 7 @47277 has 167 MA's), (Start: 8 @47307 has 1 MA's), (Start: 10 @47316 has 60 MA's), (11, 47352), (12, 47466), (14, 47526), (15, 47574), (16, 47577),

Gene: Phatniss\_80 Start: 48075, Stop: 48446, Start Num: 7

Candidate Starts for Phatniss\_80:

(Start: 7 @48075 has 167 MA's), (Start: 8 @48105 has 1 MA's), (Start: 10 @48114 has 60 MA's), (11, 48150), (12, 48264), (14, 48324), (15, 48372), (16, 48375),

Gene: PhesterPhotato\_87 Start: 49734, Stop: 50105, Start Num: 7

Candidate Starts for PhesterPhotato\_87:

(Start: 7 @49734 has 167 MA's), (Start: 8 @49764 has 1 MA's), (Start: 10 @49773 has 60 MA's), (11, 49809), (12, 49923), (14, 49983), (15, 50031), (16, 50034),

Gene: Philonius\_59 Start: 38062, Stop: 38400, Start Num: 9

Candidate Starts for Philonius\_59:

(Start: 3 @38002 has 19 MA's), (Start: 7 @38029 has 167 MA's), (Start: 9 @38062 has 15 MA's), (Start: 10 @38068 has 60 MA's), (11, 38104), (12, 38218),

Gene: Philus\_86 Start: 51681, Stop: 52013, Start Num: 10

Candidate Starts for Philus\_86:

(Start: 7 @51642 has 167 MA's), (Start: 8 @51672 has 1 MA's), (Start: 10 @51681 has 60 MA's), (11, 51717), (12, 51831), (14, 51891), (15, 51939), (16, 51942),

Gene: Phish\_55 Start: 38643, Stop: 39014, Start Num: 7  
Candidate Starts for Phish\_55:  
(Start: 7 @38643 has 167 MA's), (Start: 8 @38673 has 1 MA's), (Start: 10 @38682 has 60 MA's), (11, 38718), (12, 38832), (14, 38892), (15, 38940), (16, 38943),

Gene: Phloss\_57 Start: 37304, Stop: 37642, Start Num: 9  
Candidate Starts for Phloss\_57:  
(Start: 3 @37244 has 19 MA's), (Start: 7 @37271 has 167 MA's), (Start: 9 @37304 has 15 MA's), (Start: 10 @37310 has 60 MA's), (11, 37346), (12, 37460),

Gene: Phreak\_53 Start: 37648, Stop: 38019, Start Num: 7  
Candidate Starts for Phreak\_53:  
(Start: 7 @37648 has 167 MA's), (Start: 8 @37678 has 1 MA's), (Start: 10 @37687 has 60 MA's), (11, 37723), (12, 37837), (14, 37897), (15, 37945), (16, 37948),

Gene: PinkYoshi\_58 Start: 39867, Stop: 40238, Start Num: 7  
Candidate Starts for PinkYoshi\_58:  
(Start: 3 @39840 has 19 MA's), (Start: 7 @39867 has 167 MA's), (Start: 9 @39900 has 15 MA's), (Start: 10 @39906 has 60 MA's), (11, 39942), (12, 40056),

Gene: Piper2020\_63 Start: 40188, Stop: 40559, Start Num: 7  
Candidate Starts for Piper2020\_63:  
(Start: 7 @40188 has 167 MA's), (Start: 8 @40218 has 1 MA's), (Start: 10 @40227 has 60 MA's), (11, 40263), (12, 40377), (14, 40437), (15, 40485), (16, 40488),

Gene: Pippy\_78 Start: 48138, Stop: 48509, Start Num: 7  
Candidate Starts for Pippy\_78:  
(Start: 7 @48138 has 167 MA's), (Start: 8 @48168 has 1 MA's), (Start: 10 @48177 has 60 MA's), (11, 48213), (12, 48327), (14, 48387), (15, 48435), (16, 48438),

Gene: Pipsqueaks\_60 Start: 37875, Stop: 38213, Start Num: 9  
Candidate Starts for Pipsqueaks\_60:  
(Start: 3 @37815 has 19 MA's), (Start: 7 @37842 has 167 MA's), (Start: 9 @37875 has 15 MA's), (Start: 10 @37881 has 60 MA's), (11, 37917), (12, 38031),

Gene: Plagueis\_53 Start: 37485, Stop: 37817, Start Num: 10  
Candidate Starts for Plagueis\_53:  
(Start: 3 @37419 has 19 MA's), (Start: 7 @37446 has 167 MA's), (Start: 9 @37479 has 15 MA's), (Start: 10 @37485 has 60 MA's), (11, 37521), (12, 37635),

Gene: Plumbus\_84 Start: 46988, Stop: 47329, Start Num: 8  
Candidate Starts for Plumbus\_84:  
(Start: 7 @46958 has 167 MA's), (Start: 8 @46988 has 1 MA's), (Start: 10 @46997 has 60 MA's), (11, 47033), (12, 47147), (14, 47207), (15, 47255), (16, 47258),

Gene: Polkaroo\_75 Start: 46717, Stop: 47088, Start Num: 7  
Candidate Starts for Polkaroo\_75:  
(Start: 3 @46690 has 19 MA's), (Start: 7 @46717 has 167 MA's), (Start: 9 @46750 has 15 MA's), (Start: 10 @46756 has 60 MA's), (11, 46792), (12, 46906),

Gene: Polo2Bam\_93 Start: 48281, Stop: 48613, Start Num: 10  
Candidate Starts for Polo2Bam\_93:

(Start: 7 @48242 has 167 MA's), (Start: 8 @48272 has 1 MA's), (Start: 10 @48281 has 60 MA's), (11, 48317), (12, 48431), (14, 48491), (15, 48539), (16, 48542),

Gene: PopTart\_75 Start: 46629, Stop: 47000, Start Num: 7

Candidate Starts for PopTart\_75:

(Start: 7 @46629 has 167 MA's), (Start: 8 @46659 has 1 MA's), (Start: 10 @46668 has 60 MA's), (11, 46704), (12, 46818), (14, 46878), (15, 46926), (16, 46929),

Gene: Priscilla\_78 Start: 48805, Stop: 49137, Start Num: 10

Candidate Starts for Priscilla\_78:

(Start: 7 @48766 has 167 MA's), (Start: 8 @48796 has 1 MA's), (Start: 10 @48805 has 60 MA's), (11, 48841), (12, 48955), (14, 49015), (15, 49063), (16, 49066),

Gene: QueenHazel\_64 Start: 42803, Stop: 43201, Start Num: 3

Candidate Starts for QueenHazel\_64:

(Start: 3 @42803 has 19 MA's), (Start: 7 @42830 has 167 MA's), (Start: 9 @42863 has 15 MA's), (Start: 10 @42869 has 60 MA's), (11, 42905), (12, 43019),

Gene: QuickMath\_82 Start: 49171, Stop: 49503, Start Num: 10

Candidate Starts for QuickMath\_82:

(Start: 7 @49132 has 167 MA's), (Start: 8 @49162 has 1 MA's), (Start: 10 @49171 has 60 MA's), (11, 49207), (12, 49321), (14, 49381), (15, 49429), (16, 49432),

Gene: Quico\_89 Start: 50922, Stop: 51254, Start Num: 10

Candidate Starts for Quico\_89:

(Start: 7 @50883 has 167 MA's), (Start: 8 @50913 has 1 MA's), (Start: 10 @50922 has 60 MA's), (11, 50958), (12, 51072), (14, 51132), (15, 51180), (16, 51183),

Gene: Remy19\_56 Start: 38643, Stop: 39014, Start Num: 7

Candidate Starts for Remy19\_56:

(Start: 7 @38643 has 167 MA's), (Start: 8 @38673 has 1 MA's), (Start: 10 @38682 has 60 MA's), (11, 38718), (12, 38832), (14, 38892), (15, 38940), (16, 38943),

Gene: Rialto\_87 Start: 49926, Stop: 50297, Start Num: 7

Candidate Starts for Rialto\_87:

(Start: 7 @49926 has 167 MA's), (Start: 8 @49956 has 1 MA's), (Start: 10 @49965 has 60 MA's), (11, 50001), (12, 50115), (14, 50175), (15, 50223), (16, 50226),

Gene: Rita\_90 Start: 52291, Stop: 52662, Start Num: 7

Candidate Starts for Rita\_90:

(Start: 7 @52291 has 167 MA's), (Start: 8 @52321 has 1 MA's), (Start: 10 @52330 has 60 MA's), (11, 52366), (12, 52480), (14, 52540), (15, 52588), (16, 52591),

Gene: Rockne\_84 Start: 48449, Stop: 48820, Start Num: 7

Candidate Starts for Rockne\_84:

(Start: 7 @48449 has 167 MA's), (Start: 8 @48479 has 1 MA's), (Start: 10 @48488 has 60 MA's), (11, 48524), (12, 48638), (14, 48698), (15, 48746), (16, 48749),

Gene: RockyHorror\_81 Start: 47659, Stop: 47991, Start Num: 10

Candidate Starts for RockyHorror\_81:

(Start: 7 @47620 has 167 MA's), (Start: 8 @47650 has 1 MA's), (Start: 10 @47659 has 60 MA's), (11, 47695), (12, 47809), (14, 47869), (15, 47917), (16, 47920),

Gene: RonRayGun\_35 Start: 30289, Stop: 29957, Start Num: 10  
Candidate Starts for RonRayGun\_35:  
(Start: 3 @30355 has 19 MA's), (Start: 7 @30328 has 167 MA's), (Start: 9 @30295 has 15 MA's),  
(Start: 10 @30289 has 60 MA's), (11, 30253), (12, 30139),

Gene: Royals2015\_88 Start: 49231, Stop: 49602, Start Num: 7  
Candidate Starts for Royals2015\_88:  
(Start: 7 @49231 has 167 MA's), (Start: 8 @49261 has 1 MA's), (Start: 10 @49270 has 60 MA's), (11,  
49306), (12, 49420), (14, 49480), (15, 49528), (16, 49531),

Gene: Ruby\_78 Start: 49498, Stop: 49803, Start Num: 7  
Candidate Starts for Ruby\_78:  
(Start: 7 @49498 has 167 MA's), (Start: 8 @49528 has 1 MA's), (Start: 10 @49537 has 60 MA's), (11,  
49573), (12, 49687), (14, 49747),

Gene: Ryadel\_25 Start: 11140, Stop: 11514, Start Num: 7  
Candidate Starts for Ryadel\_25:  
(Start: 7 @11140 has 167 MA's), (Start: 8 @11170 has 1 MA's), (Start: 10 @11179 has 60 MA's), (11,  
11215), (12, 11329), (14, 11389), (20, 11500),

Gene: Saal\_79 Start: 49849, Stop: 50220, Start Num: 7  
Candidate Starts for Saal\_79:  
(Start: 7 @49849 has 167 MA's), (Start: 8 @49879 has 1 MA's), (Start: 10 @49888 has 60 MA's), (11,  
49924), (12, 50038), (14, 50098), (15, 50146), (16, 50149),

Gene: Sabbb\_85 Start: 47362, Stop: 47733, Start Num: 7  
Candidate Starts for Sabbb\_85:  
(Start: 7 @47362 has 167 MA's), (Start: 8 @47392 has 1 MA's), (Start: 10 @47401 has 60 MA's), (11,  
47437), (12, 47551), (14, 47611), (15, 47659), (16, 47662),

Gene: Sandalphon\_88 Start: 52006, Stop: 52365, Start Num: 7  
Candidate Starts for Sandalphon\_88:  
(Start: 3 @51979 has 19 MA's), (Start: 7 @52006 has 167 MA's), (Start: 9 @52039 has 15 MA's),  
(Start: 10 @52045 has 60 MA's), (11, 52081), (12, 52195),

Gene: Sarma624\_83 Start: 46478, Stop: 46816, Start Num: 9  
Candidate Starts for Sarma624\_83:  
(Start: 3 @46418 has 19 MA's), (Start: 7 @46445 has 167 MA's), (Start: 9 @46478 has 15 MA's),  
(Start: 10 @46484 has 60 MA's), (11, 46520), (12, 46634),

Gene: SassyB\_75 Start: 46629, Stop: 47000, Start Num: 7  
Candidate Starts for SassyB\_75:  
(Start: 7 @46629 has 167 MA's), (Start: 8 @46659 has 1 MA's), (Start: 10 @46668 has 60 MA's), (11,  
46704), (12, 46818), (14, 46878), (15, 46926), (16, 46929),

Gene: Schnauzer\_60 Start: 37897, Stop: 38235, Start Num: 9  
Candidate Starts for Schnauzer\_60:  
(Start: 3 @37837 has 19 MA's), (Start: 7 @37864 has 167 MA's), (Start: 9 @37897 has 15 MA's),  
(Start: 10 @37903 has 60 MA's), (11, 37939), (12, 38053),

Gene: SchoolBus\_22 Start: 10327, Stop: 10701, Start Num: 7  
Candidate Starts for SchoolBus\_22:

(Start: 7 @10327 has 167 MA's), (Start: 8 @10357 has 1 MA's), (Start: 10 @10366 has 60 MA's), (11, 10402), (12, 10516), (14, 10576), (20, 10687),

Gene: Schuy\_24 Start: 10719, Stop: 11093, Start Num: 7

Candidate Starts for Schuy\_24:

(Start: 7 @10719 has 167 MA's), (Start: 8 @10749 has 1 MA's), (Start: 10 @10758 has 60 MA's), (11, 10794), (12, 10908), (14, 10968), (20, 11079),

Gene: Scitech\_53 Start: 37539, Stop: 37871, Start Num: 10

Candidate Starts for Scitech\_53:

(Start: 7 @37500 has 167 MA's), (Start: 8 @37530 has 1 MA's), (Start: 10 @37539 has 60 MA's), (11, 37575), (12, 37689), (14, 37749), (15, 37797), (16, 37800),

Gene: Seabastian\_85 Start: 48865, Stop: 49236, Start Num: 7

Candidate Starts for Seabastian\_85:

(Start: 7 @48865 has 167 MA's), (Start: 8 @48895 has 1 MA's), (Start: 10 @48904 has 60 MA's), (11, 48940), (12, 49054), (14, 49114), (15, 49162), (16, 49165),

Gene: Seagreen\_82 Start: 49771, Stop: 50103, Start Num: 10

Candidate Starts for Seagreen\_82:

(Start: 7 @49732 has 167 MA's), (Start: 8 @49762 has 1 MA's), (Start: 10 @49771 has 60 MA's), (11, 49807), (12, 49921), (14, 49981), (15, 50029), (16, 50032),

Gene: ShaboiShabazz\_55 Start: 38643, Stop: 39014, Start Num: 7

Candidate Starts for ShaboiShabazz\_55:

(Start: 7 @38643 has 167 MA's), (Start: 8 @38673 has 1 MA's), (Start: 10 @38682 has 60 MA's), (11, 38718), (12, 38832), (14, 38892), (15, 38940), (16, 38943),

Gene: ShiLan\_83 Start: 51456, Stop: 51827, Start Num: 7

Candidate Starts for ShiLan\_83:

(Start: 7 @51456 has 167 MA's), (Start: 8 @51486 has 1 MA's), (Start: 10 @51495 has 60 MA's), (11, 51531), (12, 51645), (14, 51705), (15, 51753), (16, 51756),

Gene: Shida\_23 Start: 10624, Stop: 10998, Start Num: 7

Candidate Starts for Shida\_23:

(Start: 7 @10624 has 167 MA's), (Start: 8 @10654 has 1 MA's), (Start: 10 @10663 has 60 MA's), (11, 10699), (12, 10813), (14, 10873), (20, 10984),

Gene: ShowerHandel\_93 Start: 51978, Stop: 52310, Start Num: 10

Candidate Starts for ShowerHandel\_93:

(Start: 3 @51912 has 19 MA's), (Start: 7 @51939 has 167 MA's), (Start: 9 @51972 has 15 MA's), (Start: 10 @51978 has 60 MA's), (11, 52014), (12, 52128),

Gene: SiSi\_79 Start: 48633, Stop: 48899, Start Num: 10

Candidate Starts for SiSi\_79:

(Start: 7 @48594 has 167 MA's), (Start: 8 @48624 has 1 MA's), (Start: 10 @48633 has 60 MA's), (11, 48669), (12, 48783), (14, 48843),

Gene: Silvafighter\_60 Start: 37440, Stop: 37778, Start Num: 9

Candidate Starts for Silvafighter\_60:

(Start: 3 @37380 has 19 MA's), (Start: 7 @37407 has 167 MA's), (Start: 9 @37440 has 15 MA's), (Start: 10 @37446 has 60 MA's), (11, 37482), (12, 37596),

Gene: SilverChicken\_47 Start: 31179, Stop: 30781, Start Num: 3  
Candidate Starts for SilverChicken\_47:  
(Start: 3 @31179 has 19 MA's), (Start: 7 @31152 has 167 MA's), (Start: 9 @31119 has 15 MA's),  
(Start: 10 @31113 has 60 MA's), (11, 31077), (12, 30963),

Gene: Silvy\_55 Start: 38473, Stop: 38871, Start Num: 3  
Candidate Starts for Silvy\_55:  
(Start: 3 @38473 has 19 MA's), (Start: 7 @38500 has 167 MA's), (Start: 9 @38533 has 15 MA's),  
(Start: 10 @38539 has 60 MA's), (11, 38575), (12, 38689),

Gene: Sizemore\_59 Start: 39926, Stop: 40297, Start Num: 7  
Candidate Starts for Sizemore\_59:  
(Start: 7 @39926 has 167 MA's), (Start: 8 @39956 has 1 MA's), (Start: 10 @39965 has 60 MA's), (11,  
40001), (12, 40115), (14, 40175), (15, 40223), (16, 40226),

Gene: Slim\_83 Start: 49185, Stop: 49517, Start Num: 10  
Candidate Starts for Slim\_83:  
(Start: 7 @49146 has 167 MA's), (Start: 8 @49176 has 1 MA's), (Start: 10 @49185 has 60 MA's), (11,  
49221), (12, 49335), (14, 49395), (15, 49443), (16, 49446),

Gene: Smooch\_26 Start: 12102, Stop: 12401, Start Num: 6  
Candidate Starts for Smooch\_26:  
(1, 11931), (2, 11970), (4, 12093), (5, 12096), (Start: 6 @12102 has 1 MA's), (Start: 8 @12144 has 1  
MA's), (Start: 10 @12153 has 60 MA's), (11, 12189), (12, 12303), (14, 12363),

Gene: Smurph\_59 Start: 37903, Stop: 38235, Start Num: 10  
Candidate Starts for Smurph\_59:  
(Start: 3 @37837 has 19 MA's), (Start: 7 @37864 has 167 MA's), (Start: 9 @37897 has 15 MA's),  
(Start: 10 @37903 has 60 MA's), (11, 37939), (12, 38053),

Gene: Sparkdehlily\_62 Start: 39634, Stop: 40032, Start Num: 3  
Candidate Starts for Sparkdehlily\_62:  
(Start: 3 @39634 has 19 MA's), (Start: 7 @39661 has 167 MA's), (Start: 9 @39694 has 15 MA's),  
(Start: 10 @39700 has 60 MA's), (11, 39736), (12, 39850),

Gene: Spoonbill\_79 Start: 47408, Stop: 47740, Start Num: 10  
Candidate Starts for Spoonbill\_79:  
(Start: 7 @47369 has 167 MA's), (Start: 8 @47399 has 1 MA's), (Start: 10 @47408 has 60 MA's), (11,  
47444), (12, 47558), (14, 47618), (15, 47666), (16, 47669),

Gene: Starcevich\_83 Start: 50629, Stop: 51000, Start Num: 7  
Candidate Starts for Starcevich\_83:  
(Start: 7 @50629 has 167 MA's), (Start: 8 @50659 has 1 MA's), (Start: 10 @50668 has 60 MA's), (11,  
50704), (12, 50818), (14, 50878), (15, 50926), (16, 50929),

Gene: Strokeseat\_78 Start: 46785, Stop: 47156, Start Num: 7  
Candidate Starts for Strokeseat\_78:  
(Start: 7 @46785 has 167 MA's), (Start: 8 @46815 has 1 MA's), (Start: 10 @46824 has 60 MA's), (11,  
46860), (12, 46974), (14, 47034), (15, 47082), (16, 47085),

Gene: SwagPigglett\_84 Start: 50985, Stop: 51356, Start Num: 7  
Candidate Starts for SwagPigglett\_84:

(Start: 7 @50985 has 167 MA's), (Start: 8 @51015 has 1 MA's), (Start: 10 @51024 has 60 MA's), (11, 51060), (12, 51174), (14, 51234), (15, 51282), (16, 51285),

Gene: Sweets\_58 Start: 39932, Stop: 40303, Start Num: 7

Candidate Starts for Sweets\_58:

(Start: 7 @39932 has 167 MA's), (Start: 8 @39962 has 1 MA's), (Start: 10 @39971 has 60 MA's), (11, 40007), (12, 40121), (14, 40181), (15, 40229), (16, 40232),

Gene: TDanisky\_62 Start: 39634, Stop: 40032, Start Num: 3

Candidate Starts for TDanisky\_62:

(Start: 3 @39634 has 19 MA's), (Start: 7 @39661 has 167 MA's), (Start: 9 @39694 has 15 MA's), (Start: 10 @39700 has 60 MA's), (11, 39736), (12, 39850),

Gene: Taj\_90 Start: 51483, Stop: 51854, Start Num: 7

Candidate Starts for Taj\_90:

(Start: 7 @51483 has 167 MA's), (Start: 8 @51513 has 1 MA's), (Start: 10 @51522 has 60 MA's), (11, 51558), (12, 51672), (14, 51732), (15, 51780), (16, 51783),

Gene: Taptic\_68 Start: 49502, Stop: 49873, Start Num: 7

Candidate Starts for Taptic\_68:

(Start: 7 @49502 has 167 MA's), (Start: 8 @49532 has 1 MA's), (Start: 10 @49541 has 60 MA's), (11, 49577), (12, 49691), (14, 49751), (15, 49799), (16, 49802),

Gene: ThetaBob\_82 Start: 48204, Stop: 48536, Start Num: 10

Candidate Starts for ThetaBob\_82:

(Start: 7 @48165 has 167 MA's), (Start: 8 @48195 has 1 MA's), (Start: 10 @48204 has 60 MA's), (11, 48240), (12, 48354), (14, 48414), (15, 48462), (16, 48465),

Gene: TomBrady\_56 Start: 38644, Stop: 39015, Start Num: 7

Candidate Starts for TomBrady\_56:

(Start: 7 @38644 has 167 MA's), (Start: 8 @38674 has 1 MA's), (Start: 10 @38683 has 60 MA's), (11, 38719), (12, 38833), (14, 38893), (15, 38941), (16, 38944),

Gene: TootsiePop\_60 Start: 39332, Stop: 39664, Start Num: 10

Candidate Starts for TootsiePop\_60:

(Start: 7 @39293 has 167 MA's), (Start: 8 @39323 has 1 MA's), (Start: 10 @39332 has 60 MA's), (11, 39368), (12, 39482), (14, 39542), (15, 39590), (16, 39593),

Gene: Totinger\_85 Start: 49425, Stop: 49796, Start Num: 7

Candidate Starts for Totinger\_85:

(Start: 7 @49425 has 167 MA's), (Start: 8 @49455 has 1 MA's), (Start: 10 @49464 has 60 MA's), (11, 49500), (12, 49614), (14, 49674), (15, 49722), (16, 49725),

Gene: Tweety\_84 Start: 50560, Stop: 50931, Start Num: 7

Candidate Starts for Tweety\_84:

(Start: 7 @50560 has 167 MA's), (Start: 8 @50590 has 1 MA's), (Start: 10 @50599 has 60 MA's), (11, 50635), (12, 50749), (14, 50809), (15, 50857), (16, 50860),

Gene: Typha\_50 Start: 37590, Stop: 37961, Start Num: 7

Candidate Starts for Typha\_50:

(Start: 7 @37590 has 167 MA's), (Start: 8 @37620 has 1 MA's), (Start: 10 @37629 has 60 MA's), (11, 37665), (12, 37779), (14, 37839), (15, 37887), (16, 37890),



Gene: UncleRicky\_82 Start: 48323, Stop: 48694, Start Num: 7

Candidate Starts for UncleRicky\_82:

(Start: 7 @48323 has 167 MA's), (Start: 8 @48353 has 1 MA's), (Start: 10 @48362 has 60 MA's), (11, 48398), (12, 48512), (14, 48572), (15, 48620), (16, 48623),

Gene: VRedHorse\_82 Start: 46932, Stop: 47303, Start Num: 7

Candidate Starts for VRedHorse\_82:

(Start: 7 @46932 has 167 MA's), (Start: 8 @46962 has 1 MA's), (Start: 10 @46971 has 60 MA's), (11, 47007), (12, 47121), (14, 47181), (15, 47229), (16, 47232),

Gene: Vagabond\_23 Start: 10601, Stop: 10975, Start Num: 7

Candidate Starts for Vagabond\_23:

(Start: 7 @10601 has 167 MA's), (Start: 8 @10631 has 1 MA's), (Start: 10 @10640 has 60 MA's), (11, 10676), (12, 10790), (14, 10850), (20, 10961),

Gene: Velveteen\_78 Start: 46484, Stop: 46816, Start Num: 10

Candidate Starts for Velveteen\_78:

(Start: 3 @46418 has 19 MA's), (Start: 7 @46445 has 167 MA's), (Start: 9 @46478 has 15 MA's), (Start: 10 @46484 has 60 MA's), (11, 46520), (12, 46634),

Gene: Venti\_74 Start: 44157, Stop: 44489, Start Num: 10

Candidate Starts for Venti\_74:

(Start: 3 @44091 has 19 MA's), (Start: 7 @44118 has 167 MA's), (Start: 9 @44151 has 15 MA's), (Start: 10 @44157 has 60 MA's), (11, 44193), (12, 44307),

Gene: Veteran\_75 Start: 48462, Stop: 48767, Start Num: 7

Candidate Starts for Veteran\_75:

(Start: 7 @48462 has 167 MA's), (Start: 8 @48492 has 1 MA's), (Start: 10 @48501 has 60 MA's), (11, 48537), (12, 48651), (14, 48711),

Gene: Violac\_88 Start: 51078, Stop: 51410, Start Num: 10

Candidate Starts for Violac\_88:

(Start: 7 @51039 has 167 MA's), (Start: 8 @51069 has 1 MA's), (Start: 10 @51078 has 60 MA's), (11, 51114), (12, 51228), (14, 51288), (15, 51336), (16, 51339),

Gene: Vivum\_85 Start: 51354, Stop: 51686, Start Num: 10

Candidate Starts for Vivum\_85:

(Start: 7 @51315 has 167 MA's), (Start: 8 @51345 has 1 MA's), (Start: 10 @51354 has 60 MA's), (11, 51390), (12, 51504), (14, 51564), (15, 51612), (16, 51615),

Gene: Vorrrps\_23 Start: 10558, Stop: 10932, Start Num: 7

Candidate Starts for Vorrrps\_23:

(Start: 7 @10558 has 167 MA's), (Start: 8 @10588 has 1 MA's), (Start: 10 @10597 has 60 MA's), (11, 10633), (12, 10747), (14, 10807), (20, 10918),

Gene: Wee\_89 Start: 51559, Stop: 51930, Start Num: 7

Candidate Starts for Wee\_89:

(Start: 7 @51559 has 167 MA's), (Start: 8 @51589 has 1 MA's), (Start: 10 @51598 has 60 MA's), (11, 51634), (12, 51748), (14, 51808), (15, 51856), (16, 51859),

Gene: Whouxphf\_78 Start: 48751, Stop: 49122, Start Num: 7

Candidate Starts for Whouxphf\_78:

(Start: 7 @48751 has 167 MA's), (Start: 8 @48781 has 1 MA's), (Start: 10 @48790 has 60 MA's), (11, 48826), (12, 48940), (14, 49000), (15, 49048), (16, 49051),

Gene: Wildflower\_23 Start: 10581, Stop: 10955, Start Num: 7

Candidate Starts for Wildflower\_23:

(Start: 7 @10581 has 167 MA's), (Start: 8 @10611 has 1 MA's), (Start: 10 @10620 has 60 MA's), (11, 10656), (12, 10770), (14, 10830), (20, 10941),

Gene: Winget\_23 Start: 10600, Stop: 10974, Start Num: 7

Candidate Starts for Winget\_23:

(Start: 7 @10600 has 167 MA's), (Start: 8 @10630 has 1 MA's), (Start: 10 @10639 has 60 MA's), (11, 10675), (12, 10789), (14, 10849), (20, 10960),

Gene: XFactor\_78 Start: 48679, Stop: 49011, Start Num: 10

Candidate Starts for XFactor\_78:

(Start: 7 @48640 has 167 MA's), (Start: 8 @48670 has 1 MA's), (Start: 10 @48679 has 60 MA's), (11, 48715), (12, 48829), (14, 48889), (15, 48937), (16, 48940),

Gene: Xerxes\_59 Start: 37894, Stop: 38232, Start Num: 9

Candidate Starts for Xerxes\_59:

(Start: 3 @37834 has 19 MA's), (Start: 7 @37861 has 167 MA's), (Start: 9 @37894 has 15 MA's), (Start: 10 @37900 has 60 MA's), (11, 37936), (12, 38050),

Gene: Xula\_65 Start: 43290, Stop: 43688, Start Num: 3

Candidate Starts for Xula\_65:

(Start: 3 @43290 has 19 MA's), (Start: 7 @43317 has 167 MA's), (Start: 9 @43350 has 15 MA's), (Start: 10 @43356 has 60 MA's), (11, 43392), (12, 43506),

Gene: Yorick\_76 Start: 49589, Stop: 49921, Start Num: 10

Candidate Starts for Yorick\_76:

(Start: 8 @49580 has 1 MA's), (Start: 10 @49589 has 60 MA's), (11, 49625), (12, 49739), (14, 49799), (15, 49847), (16, 49850),

Gene: Yoshi\_101 Start: 51721, Stop: 52092, Start Num: 7

Candidate Starts for Yoshi\_101:

(Start: 7 @51721 has 167 MA's), (Start: 8 @51751 has 1 MA's), (Start: 10 @51760 has 60 MA's), (11, 51796), (12, 51910), (14, 51970), (15, 52018), (16, 52021),

Gene: YungJamal\_25 Start: 10948, Stop: 11214, Start Num: 10

Candidate Starts for YungJamal\_25:

(Start: 7 @10909 has 167 MA's), (Start: 8 @10939 has 1 MA's), (Start: 10 @10948 has 60 MA's), (11, 10984), (12, 11098), (14, 11158),

Gene: Zakhe101\_48 Start: 24855, Stop: 24523, Start Num: 10

Candidate Starts for Zakhe101\_48:

(Start: 7 @24894 has 167 MA's), (Start: 8 @24864 has 1 MA's), (Start: 10 @24855 has 60 MA's), (11, 24819), (12, 24705),

Gene: ZenTime222\_54 Start: 38652, Stop: 39023, Start Num: 7

Candidate Starts for ZenTime222\_54:

(Start: 7 @38652 has 167 MA's), (Start: 8 @38682 has 1 MA's), (Start: 10 @38691 has 60 MA's), (11, 38727), (12, 38841), (14, 38901), (15, 38949), (16, 38952),

Gene: Zerg\_78 Start: 48274, Stop: 48645, Start Num: 7

Candidate Starts for Zerg\_78:

(Start: 7 @48274 has 167 MA's), (Start: 8 @48304 has 1 MA's), (Start: 10 @48313 has 60 MA's), (11, 48349), (12, 48463), (14, 48523), (15, 48571), (16, 48574),

Gene: Zizzle\_81 Start: 50087, Stop: 50458, Start Num: 7

Candidate Starts for Zizzle\_81:

(Start: 3 @50060 has 19 MA's), (Start: 7 @50087 has 167 MA's), (Start: 9 @50120 has 15 MA's), (Start: 10 @50126 has 60 MA's), (11, 50162), (12, 50276),

Gene: ZoMa\_57 Start: 39937, Stop: 40308, Start Num: 7

Candidate Starts for ZoMa\_57:

(Start: 7 @39937 has 167 MA's), (Start: 8 @39967 has 1 MA's), (Start: 10 @39976 has 60 MA's), (11, 40012), (12, 40126), (14, 40186), (15, 40234), (16, 40237),

Gene: Zombie\_57 Start: 39158, Stop: 39529, Start Num: 7

Candidate Starts for Zombie\_57:

(Start: 7 @39158 has 167 MA's), (Start: 8 @39188 has 1 MA's), (Start: 10 @39197 has 60 MA's), (11, 39233), (12, 39347), (14, 39407), (15, 39455), (16, 39458),