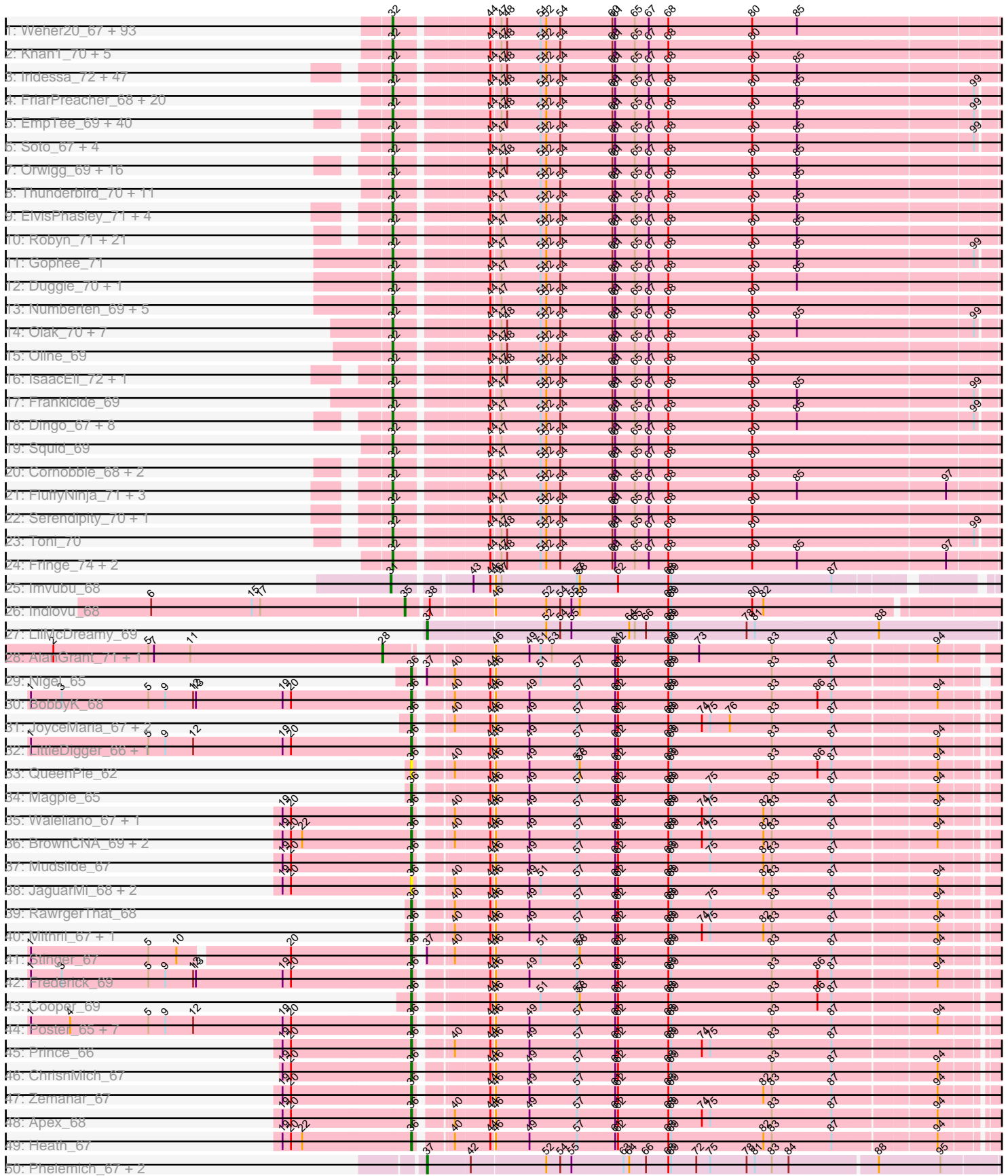


Pham 304626





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 304626 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304626 has 389 members, 51 are drafts.

Phages represented in each track:

- Track 1 : Weher20\_67, JDog\_69, Magic8\_69, Murdoc\_67, Mulan\_69, Podrick\_69, Taraxa\_70, Boehler\_69, Melc17\_67, CampRoach\_71, Vortex\_69, Pipsqueak\_67, Veritas\_69, Plata\_69, MichaelPhcott\_68, PallasAthena\_71, Chute\_70, Karn\_70, DelRivs\_68, Adriana\_71, Longacauda\_71, YouGoGlencoco\_70, UncleHowie\_67, Durga\_72, Buckeye\_70, Legolas\_71, LemonSlice\_70, Cobra\_70, TomBombadil\_70, Zelda\_70, AngelCake\_69, Pops\_68, HogWash\_70, DoLOn\_74, Gyarad\_0069, PhenghisKhan\_70, LeeLot\_69, KlimbOn\_69, Potter\_67, Doddsville\_68, Chaelin\_71, Sophia\_68, Cher\_70, Dati\_67, OSmaximus\_70, Gwilliam\_71, Hocus\_68, RedMaple\_70, Crownjwl\_68, Jiminy\_70, Kailash\_68, JakeO\_71, FugateOSU\_70, LostAndPhound\_69, Horchata\_67, Virgeve\_68, LeiMonet\_73, MelsMeow\_69, Nova1\_70, Phareon\_68, Gwennie1\_69, Morgushi\_68, Phergie\_70, HighStump\_71, Eremos\_69, Coletti\_73, Harvey\_67, Surely\_70, SassyCat97\_68, Lasso\_69, Trypo\_71, BlacksBerry\_70, Squiggle\_69, Roscoe\_70, Struggle\_70, Held\_68, Hartsy\_69, Soile\_71, Fozzie\_68, Mag7\_68, Fang\_71, PhrankReynolds\_69, Andre\_72, DonSanchon\_66, Chuni\_71, Apizium\_69, Haimas\_68, Jesabah\_72, Happabalu\_68, LasagnaCat\_71, PinheadLarry\_69, Aleia\_69, BatteryCK\_68, Inchworm\_71
- Track 2 : Khan1\_70, Emiris\_71, Scrick\_69, Slatt\_70, Rimu\_70, DuchessDung\_69
- Track 3 : Iridessa\_72, Vista\_69, Thora\_69, Anderson\_72, Badfish\_71, GeneCoco\_71, Hertubise\_70, Cannibal\_71, Mesh1\_71, Oosterbaan\_70, Orion\_70, Scoot17C\_71, Nathan\_71, Megatron\_71, Cornbread\_69, PhrodoBaggins\_72, Mosaic\_68, Altwerkus\_69, Katniss\_72, PG1\_70, Chah\_72, Mana\_69, HenryJackson\_71, Pinkman\_70, ThreeOh3D2\_72, Kahve\_71, SilverBell\_71, Eugenia\_71, Mutante\_71, MRabcd\_70, Skippy\_72, Hetaeria\_70, Maskar\_71, Piglet\_0071, Zonia\_71, Keitherie\_73, TallGrassMM\_69, Serpentine\_0071, Wallhey\_71, Jillium\_71, ImtiyazSitla\_71, Waterdiva\_71, Maru\_70, UAch1\_71, Ashraf\_71, Matalotodo\_69, Kwksand96\_71, Phipps\_70
- Track 4 : FriarPreacher\_68, Basato\_69, Plmatters\_68, Banjo\_68, QueenBeane\_70, Freya\_67, OneBrain\_73, Samaymay\_70, Lumine\_71, Craff\_73, MiniBoss\_67, CamL\_70, Placalicious\_70, True\_68, Simielle\_70, Orfeu\_69, Iridoclysis\_69, Puhltonio\_68, Bishoperium\_70, Phamished\_71, Ricotta\_70
- Track 5 : EmpTee\_69, FleetyMac\_73, LuckyMarjie\_67, Mesmerelda\_69, Pacifista\_69, Mecca\_70, Kimbrough\_71, Roy17\_68, Mcshane\_69, Sigman\_70, JacAttac\_70, Bluephacebaby\_69, ProfessorX\_68, Olive\_68, Omniscient\_71, RedRaider89\_69, ABU\_69, DoesntMatter\_67, NiaNia\_71, Lulumae\_67, Spartan300\_69, Beaglebox\_68, Roliet\_67, Virapocalypse\_71, Burr\_70, Tomlarah\_71, Phunky\_68, Zaider\_71, AltPhacts\_68, Vaticameos\_67, JangoPhett\_68, Dice\_69,

Nyala\_69, FremontTroll\_68, Nicole21\_71, Dione\_68, Selr12\_71, Riggan\_71, Telesworld\_68, Valjean\_69, BoogieWoogie\_70

- Track 6 : Soto\_67, SirBeauregard\_71, Labeouficaum\_70, Derpp\_70, TyrionL\_70
- Track 7 : Orwigg\_69, Riverton\_69, Manad\_69, Grand2040\_68, Etaye\_69, Brilliant\_73, Schueller\_68, Giraffe\_70, Haleema\_69, AbsoluteMadLad\_69, Megamind20\_70, Kwadwo\_69, Gareth\_70, CharlieGBrown\_68, Phleuron\_68, KingTut\_61, Caspiboi\_69
- Track 8 : Thunderbird\_70, Swiphy\_72, TooFast2Furius\_69, Solosis\_68, Windsor\_70, PhatLouie\_72, Inverness\_68, Jiraiya\_71, MrPhizzler\_73, SDcharge11\_69, Larson\_72, Flake\_69
- Track 9 : ElvisPhasley\_71, MitKao\_70, Daffy\_69, Hamish\_67, Chorkpop\_71
- Track 10 : Robyn\_71, Aelin\_69, Usavi\_71, Hekos\_68, KLucky39\_68, Suffolk\_68, Lopsy\_67, Newman\_68, Antonia\_69, Vaishali24\_71, Chunky\_70, Triad\_71, Chipette\_69, Carthage\_70, Timmi\_69, GreenChile\_69, Lehmann\_72, Kloppinator\_70, Schadenfreude\_70, Tooj\_68, Nacho\_0073, KingVeVeVe\_68
- Track 11 : Gophee\_71
- Track 12 : Duggie\_70, Charles1\_71
- Track 13 : Numberten\_69, Aonishiki\_71, Lulwa\_68, ShadowBud\_71, Morty\_71, Quisquiliae\_72
- Track 14 : Olak\_70, Xavier\_70, PhatCats2014\_71, Lego3393\_68, OliverWalter\_70, Cosmolli16\_72, Childish\_70, DaddyDaniels\_73
- Track 15 : Oline\_69
- Track 16 : IsaacEli\_72, Kikipoo\_72
- Track 17 : Frankicide\_69
- Track 18 : Dingo\_67, CheetO\_69, Daka\_72, DirtJuice\_70, Prickles\_71, HSavage\_68, Mikota\_67, Sheila\_66, BlueHusk\_71
- Track 19 : Squid\_69
- Track 20 : Cornobble\_68, SallyH\_72, Colbert\_68
- Track 21 : FluffyNinja\_71, Yoshand\_71, Pherdinand\_71, BlackStallion\_71
- Track 22 : Serendipity\_70, Swish\_71
- Track 23 : Toni\_70
- Track 24 : Fringe\_74, ShiVal\_68, Vivaldi\_70
- Track 25 : Imvubu\_68
- Track 26 : Indlovu\_68
- Track 27 : LilMcDreamy\_69
- Track 28 : AlanGrant\_71, Vincenzo\_70
- Track 29 : Nigel\_65
- Track 30 : BobbyK\_68
- Track 31 : JoyceMaria\_67, Austelle\_67, VioletZ\_69
- Track 32 : LittleDigger\_66, Renkei\_66
- Track 33 : QueenPie\_62
- Track 34 : Magpie\_65
- Track 35 : Waleliano\_67, Lolalove\_69
- Track 36 : BrownCNA\_69, Hangman\_68, Hydro\_68
- Track 37 : Mudslide\_67
- Track 38 : JaguarMi\_68, Xincheng\_67, Fanaw\_64
- Track 39 : RawrgerThat\_68
- Track 40 : Mithril\_67, Fortunato\_68
- Track 41 : Stinger\_67
- Track 42 : Frederick\_69
- Track 43 : Cooper\_69
- Track 44 : Poster\_65, GinPorsche\_67, Ahwei\_65, Lambano\_65, Nanao\_66, Epah\_65, Hally898\_65, Antihero\_65

- Track 45 : Prince\_66
- Track 46 : ChrisnMich\_67
- Track 47 : Zemanar\_67
- Track 48 : Apex\_68
- Track 49 : Heath\_67
- Track 50 : Phelemich\_67, Reprobate\_69, Nehemiah\_69
- Track 51 : Rita130\_70, EastView9101\_70, SirJeffery\_70, Acadian\_71
- Track 52 : Nangang\_70
- Track 53 : Shenyu\_71, DigitDog\_71
- Track 54 : Rich\_70
- Track 55 : Bae\_71
- Track 56 : Donny\_72
- Track 57 : StinkyVeggy\_70, KarasumaRum\_70
- Track 58 : Mysterious\_69
- Track 59 : Suigeneris\_72
- Track 60 : Reccee\_71
- Track 61 : Serendipitous\_69
- Track 62 : ForDig\_67
- Track 63 : 40BC\_068, 39HC\_068
- Track 64 : Hosp\_064, Jolie1\_066
- Track 65 : KayaCho\_66
- Track 66 : Saguaro\_66
- Track 67 : Thonko\_73
- Track 68 : Quesadilla\_69
- Track 69 : PenguinLover67\_68
- Track 70 : CRB2\_70
- Track 71 : Funsized\_71
- Track 72 : Rinkes\_67

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

The start number called the most often in the published annotations is 32, it was called in 288 of the 338 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ABU\_69, AbsoluteMadLad\_69, Adriana\_71, Aelin\_69, Aleia\_69, AltPhacts\_68, Altwerkus\_69, Anderson\_72, Andre\_72, AngelCake\_69, Antonia\_69, Aonishiki\_71, Apizium\_69, Ashraf\_71, Badfish\_71, Banjo\_68, Basato\_69, BatteryCK\_68, Beaglebox\_68, Bishoperium\_70, BlackStallion\_71, BlacksBerry\_70, BlueHusk\_71, Bluephacebaby\_69, Bohler\_69, BoogieWoogie\_70, Brilliant\_73, Buckeye\_70, Burr\_70, CamL\_70, CampRoach\_71, Cannibal\_71, Carthage\_70, Caspiboi\_69, Chaelin\_71, Chah\_72, Charles1\_71, CharlieGBrown\_68, CheetO\_69, Cher\_70, Childish\_70, Chipette\_69, Chorkpop\_71, Chuni\_71, Chunky\_70, Chute\_70, Cobra\_70, Colbert\_68, Coletti\_73, Cornbread\_69, Cornobble\_68, Cosmolli16\_72, Craff\_73, Crownjwl\_68, DaddyDaniels\_73, Daffy\_69, Daka\_72, Dati\_67, DelRivs\_68, Derpp\_70, Dice\_69, Dingo\_67, Dione\_68, DirtJuice\_70, Doddsville\_68, DoesntMatter\_67, DoIOn\_74, DonSanchon\_66, DuchessDung\_69, Duggie\_70, Durga\_72, ElvisPhasley\_71, Emiris\_71, EmpTee\_69, Eremos\_69, Etaye\_69, Eugenia\_71, Fang\_71, Flake\_69, FleetyMac\_73, FluffyNinja\_71, Fozzie\_68, Frankicide\_69, FremontTroll\_68, Freya\_67, FriarPreacher\_68, Fringe\_74,

FugateOSU\_70, Gareth\_70, GeneCoco\_71, Giraffe\_70, Gophee\_71, Grand2040\_68, GreenChile\_69, Gwennie1\_69, Gwilliam\_71, Gyarad\_0069, HSavage\_68, Haimas\_68, Haleema\_69, Hamish\_67, Happabalu\_68, Hartsy\_69, Harvey\_67, Hekos\_68, Held\_68, HenryJackson\_71, Hertubise\_70, Hetaeria\_70, HighStump\_71, Hocus\_68, HogWash\_70, Horchata\_67, ImtiyazSitla\_71, Inchworm\_71, Inverness\_68, Iridessa\_72, Iridoclysis\_69, IsaacEli\_72, JDog\_69, JacAttac\_70, JakeO\_71, JangoPhett\_68, Jesabah\_72, Jillium\_71, Jiminy\_70, Jiraiya\_71, KLucky39\_68, Kahve\_71, Kailash\_68, Karn\_70, Katniss\_72, Keitherie\_73, Khan1\_70, Kikipoo\_72, Kimbrough\_71, KingTut\_61, KingVeVeVe\_68, KlimbOn\_69, Kloppinator\_70, Kwadwo\_69, Kwksand96\_71, Labeouficaum\_70, Larson\_72, LasagnaCat\_71, Lasso\_69, LeeLot\_69, Lego3393\_68, Legolas\_71, Lehmann\_72, LeiMonet\_73, LemonSlice\_70, Longacauda\_71, Lopsy\_67, LostAndPhound\_69, LuckyMarjie\_67, Lulumae\_67, Lulwa\_68, Lumine\_71, MRabcd\_70, Mag7\_68, Magic8\_69, Mana\_69, Manad\_69, Maru\_70, Maskar\_71, Matalotodo\_69, Mcshane\_69, Mecca\_70, Megamind20\_70, Megatron\_71, Melc17\_67, MelsMeow\_69, Mesh1\_71, Mesmerelda\_69, MichaelPhcott\_68, Mikota\_67, MiniBoss\_67, MitKao\_70, Morgushi\_68, Morty\_71, Mosaic\_68, MrPhizzler\_73, Mulan\_69, Murdoc\_67, Mutante\_71, Nacho\_0073, Nathan\_71, Newman\_68, NiaNia\_71, Nicole21\_71, Nova1\_70, Numberben\_69, Nyala\_69, OSmaximus\_70, Olak\_70, Oline\_69, Olive\_68, OliverWalter\_70, Omniscient\_71, OneBrain\_73, Oosterbaan\_70, Orfeu\_69, Orion\_70, Orwigg\_69, PG1\_70, Pacifista\_69, PallasAthena\_71, Phamished\_71, Phareon\_68, PhatCats2014\_71, PhatLouie\_72, PhenghisKhan\_70, Pherdinand\_71, Phergie\_70, Phipps\_70, Phleuron\_68, PhrankReynolds\_69, PhrodoBaggins\_72, Phunky\_68, Piglet\_0071, PinheadLarry\_69, Pinkman\_70, Pipsqueak\_67, Placalicious\_70, Plata\_69, Plmatters\_68, Podrick\_69, Pops\_68, Potter\_67, Prickles\_71, ProfessorX\_68, Puhltonio\_68, QueenBeane\_70, Quisquilliae\_72, RedMaple\_70, RedRaider89\_69, Ricotta\_70, Riggan\_71, Rimu\_70, Riverton\_69, Robyn\_71, Roliet\_67, Roscoe\_70, Roy17\_68, SDcharge11\_69, SallyH\_72, Samaymay\_70, SassyCat97\_68, Schadenfreude\_70, Schueller\_68, Scoot17C\_71, Scrick\_69, Selr12\_71, Serendipity\_70, Serpentine\_0071, ShadowBud\_71, Sheila\_66, ShiVal\_68, Sigman\_70, SilverBell\_71, Simielle\_70, SirBeauregard\_71, Skippy\_72, Slatt\_70, Soile\_71, Solosis\_68, Sophia\_68, Soto\_67, Spartan300\_69, Squid\_69, Squiggle\_69, Struggle\_70, Suffolk\_68, Surely\_70, Swiphy\_72, Swish\_71, TallGrassMM\_69, Taraxa\_70, Telesworld\_68, Thora\_69, ThreeOh3D2\_72, Thunderbird\_70, Timmi\_69, TomBombadil\_70, Tomlarah\_71, Toni\_70, TooFast2Furius\_69, Tooj\_68, Triad\_71, True\_68, Trypo\_71, TyrionL\_70, UAch1\_71, UncleHowie\_67, Usavi\_71, Vaishali24\_71, Valjean\_69, Vaticameos\_67, Veritas\_69, Virapocalypse\_71, Virgeve\_68, Vista\_69, Vivaldi\_70, Vortex\_69, Wallhey\_71, Waterdiva\_71, Weher20\_67, Windsor\_70, Xavier\_70, Yoshand\_71, YouGoGlencoco\_70, Zaider\_71, Zelda\_70, Zonia\_71,

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

- Bae\_71, Rich\_70,

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

- 39HC\_068, 40BC\_068, Acadian\_71, Ahwei\_65, AlanGrant\_71, Antihero\_65, Apex\_68, Austelle\_67, BobbyK\_68, BrownCNA\_69, CRB2\_70, ChrisnMich\_67, Cooper\_69, DigitDog\_71, Donny\_72, EastView9101\_70, Epah\_65, Fanaw\_64, ForDig\_67, Fortunato\_68, Frederick\_69, Funsized\_71, GinPorsche\_67, Hally898\_65, Hangman\_68, Heath\_67, Hosp\_064, Hydro\_68, Imvubu\_68, Indlovu\_68, JaguarMi\_68, Jolie1\_066, JoyceMaria\_67, KarasumaRum\_70, KayaCho\_66, Lambano\_65, LilMcDreamy\_69, LittleDigger\_66, Lolalove\_69, Magpie\_65, Mithril\_67, Mudslide\_67, Mysterious\_69, Nanao\_66, Nangang\_70, Nehemiah\_69, Nigel\_65,

PenguinLover67\_68, Phelemich\_67, Poster\_65, Prince\_66, QueenPie\_62, Quesadilla\_69, RawrgerThat\_68, Reccee\_71, Renkei\_66, Reprobate\_69, Rinkes\_67, Rita130\_70, Saguaro\_66, Serendipitous\_69, Shenyu\_71, SirJeffery\_70, Stinger\_67, StinkyVeggy\_70, Suigeneris\_72, Thonko\_73, Vincenzo\_70, VioletZ\_69, Waleliano\_67, Xincheng\_67, Zemanar\_67,

### Summary by start number:

#### Start 28:

- Found in 2 of 389 ( 0.5% ) of genes in pham
- Manual Annotations of this start: 2 of 338
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlanGrant\_71 (B4), Vincenzo\_70 (B4),

#### Start 29:

- Found in 1 of 389 ( 0.3% ) of genes in pham
- Manual Annotations of this start: 1 of 338
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Funsized\_71 (B9),

#### Start 30:

- Found in 1 of 389 ( 0.3% ) of genes in pham
- Manual Annotations of this start: 1 of 338
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rinkes\_67 (B9),

#### Start 31:

- Found in 5 of 389 ( 1.3% ) of genes in pham
- Manual Annotations of this start: 4 of 338
- Called 80.0% of time when present
- Phage (with cluster) where this start called: CRB2\_70 (B9), Imvubu\_68 (B10), PenguinLover67\_68 (B9), Quesadilla\_69 (B9),

#### Start 32:

- Found in 317 of 389 ( 81.5% ) of genes in pham
- Manual Annotations of this start: 288 of 338
- Called 99.4% of time when present
- Phage (with cluster) where this start called: ABU\_69 (B1), AbsoluteMadLad\_69 (B1), Adriana\_71 (B1), Aelin\_69 (B1), Aleia\_69 (B1), AltPhacts\_68 (B1), Altwerkus\_69 (B1), Anderson\_72 (B1), Andre\_72 (B1), AngelCake\_69 (B1), Antonia\_69 (B1), Aonishiki\_71 (B1), Apizium\_69 (B1), Ashraf\_71 (B1), Badfish\_71 (B1), Banjo\_68 (B1), Basato\_69 (B1), BatteryCK\_68 (B1), Beaglebox\_68 (B1), Bishoperium\_70 (B1), BlackStallion\_71 (B1), BlacksBerry\_70 (B1), BlueHusk\_71 (B1), Bluephacebaby\_69 (B1), Boehler\_69 (B1), BoogieWoogie\_70 (B1), Brilliant\_73 (B1), Buckeye\_70 (B1), Burr\_70 (B1), CamL\_70 (B1), CampRoach\_71 (B1), Cannibal\_71 (B1), Carthage\_70 (B1), Caspiboi\_69 (B1), Chaelin\_71 (B1), Chah\_72 (B1), Charles1\_71 (B1), CharlieGBrown\_68 (B1), CheetO\_69 (B1), Cher\_70 (B1), Childish\_70 (B1), Chipette\_69 (B1), Chorkpop\_71 (B1), Chuni\_71 (B1), Chunky\_70 (B1), Chute\_70 (B1), Cobra\_70 (B1), Colbert\_68 (B1), Coletti\_73 (B1), Cornbread\_69 (B1), Cornobble\_68 (B1), Cosmolli16\_72 (B1), Craff\_73 (B1), Crownjwl\_68 (B1), DaddyDaniels\_73 (B1), Daffy\_69 (B1), Daka\_72 (B1), Dati\_67 (B1), DelRivs\_68 (B1), Derpp\_70 (B1), Dice\_69 (B1), Dingo\_67 (B1), Dione\_68 (B1), DirtJuice\_70 (B1), Doddsville\_68 (B1), DoesntMatter\_67 (B1), DolOn\_74 (B1), DonSanchon\_66 (B1),

DuchessDung\_69 (B1), Duggie\_70 (B1), Durga\_72 (B1), ElvisPhasley\_71 (B1), Emiris\_71 (B1), EmpTee\_69 (B1), Eremos\_69 (B1), Etaye\_69 (B1), Eugenia\_71 (B1), Fang\_71 (B1), Flake\_69 (B1), FleetyMac\_73 (B1), FluffyNinja\_71 (B1), Fozzie\_68 (B1), Frankicide\_69 (B1), FremontTroll\_68 (B1), Freya\_67 (B1), FriarPreacher\_68 (B1), Fringe\_74 (B1), FugateOSU\_70 (B1), Gareth\_70 (B1), GeneCoco\_71 (B1), Giraffe\_70 (B1), Gophee\_71 (B1), Grand2040\_68 (B1), GreenChile\_69 (B1), Gwennie1\_69 (B1), Gwilliam\_71 (B1), Gyarad\_0069 (B1), HSavage\_68 (B1), Haimas\_68 (B1), Haleema\_69 (B1), Hamish\_67 (B1), Happabalu\_68 (B1), Hartsy\_69 (B1), Harvey\_67 (B1), Hekos\_68 (B1), Held\_68 (B1), HenryJackson\_71 (B1), Hertubise\_70 (B1), Hetaeria\_70 (B1), HighStump\_71 (B1), Hocus\_68 (B1), HogWash\_70 (B1), Horchata\_67 (B1), ImtiyazSitla\_71 (B1), Inchworm\_71 (B1), Inverness\_68 (B1), Iridessa\_72 (B1), Iridoclysis\_69 (B1), IsaacEli\_72 (B1), JDog\_69 (B1), JacAttac\_70 (B1), JakeO\_71 (B1), JangoPhett\_68 (B1), Jesabah\_72 (B1), Jillium\_71 (B1), Jiminy\_70 (B1), Jiraiya\_71 (B1), KLucky39\_68 (B1), Kahve\_71 (B1), Kailash\_68 (B1), Karn\_70 (B1), Katniss\_72 (B1), Keitherie\_73 (B1), Khan1\_70 (B1), Kikipoo\_72 (B1), Kimbrough\_71 (B1), KingTut\_61 (B1), KingVeVeVe\_68 (B1), KlimbOn\_69 (B1), Kloppinator\_70 (B1), Kwadwo\_69 (B1), Kwksand96\_71 (B1), Labeouficaum\_70 (B1), Larson\_72 (B1), LasagnaCat\_71 (B1), Lasso\_69 (B1), LeeLot\_69 (B1), Lego3393\_68 (B1), Legolas\_71 (B1), Lehmann\_72 (B1), LeiMonet\_73 (B1), LemonSlice\_70 (B1), Longacauda\_71 (B1), Lopsy\_67 (B1), LostAndPhound\_69 (B1), LuckyMarjie\_67 (B1), Lulumae\_67 (B1), Lulwa\_68 (B1), Lumine\_71 (B1), MRabcd\_70 (B1), Mag7\_68 (B1), Magic8\_69 (B1), Mana\_69 (B1), Manad\_69 (B1), Maru\_70 (B1), Maskar\_71 (B1), Matalotodo\_69 (B1), Mcshane\_69 (B1), Mecca\_70 (B1), Megamind20\_70 (B1), Megatron\_71 (B1), Melc17\_67 (B1), MelsMeow\_69 (B1), Mesh1\_71 (B1), Mesmerelda\_69 (B1), MichaelPhcott\_68 (B1), Mikota\_67 (B1), MiniBoss\_67 (B1), MitKao\_70 (B1), Morgushi\_68 (B1), Morty\_71 (B1), Mosaic\_68 (B1), MrPhizzler\_73 (B1), Mulan\_69 (B1), Murdoc\_67 (B1), Mutante\_71 (B1), Nacho\_0073 (B1), Nathan\_71 (B1), Newman\_68 (B1), NiaNia\_71 (B1), Nicole21\_71 (B1), Nova1\_70 (B1), Numberten\_69 (B1), Nyala\_69 (B1), OSmaximus\_70 (B1), Olak\_70 (B1), Oline\_69 (B1), Olive\_68 (B1), OliverWalter\_70 (B1), Omniscient\_71 (B1), OneBrain\_73 (B1), Oosterbaan\_70 (B1), Orfeu\_69 (B1), Orion\_70 (B1), Orwigg\_69 (B1), PG1\_70 (B1), Pacifista\_69 (B1), PallasAthena\_71 (B1), Phamished\_71 (B1), Phareon\_68 (B1), PhatCats2014\_71 (B1), PhatLouie\_72 (B1), Phenghiskhan\_70 (B1), Pherdinand\_71 (B1), Phergie\_70 (B1), Phipps\_70 (B1), Phleuron\_68 (B1), PhrankReynolds\_69 (B1), PhrodoBaggins\_72 (B1), Phunky\_68 (B1), Piglet\_0071 (B1), PinheadLarry\_69 (B1), Pinkman\_70 (B1), Pipsqueak\_67 (B1), Placalicious\_70 (B1), Plata\_69 (B1), Plmatters\_68 (B1), Podrick\_69 (B1), Pops\_68 (B1), Potter\_67 (B1), Prickles\_71 (B1), ProfessorX\_68 (B1), Puhltonio\_68 (B1), QueenBeane\_70 (B1), Quisquiliae\_72 (B1), RedMaple\_70 (B1), RedRaider89\_69 (B1), Ricotta\_70 (B1), Riggan\_71 (B1), Rimu\_70 (B1), Riverton\_69 (B1), Robyn\_71 (B1), Roliet\_67 (B1), Roscoe\_70 (B1), Roy17\_68 (B1), SDcharge11\_69 (B1), SallyH\_72 (B1), Samaymay\_70 (B1), SassyCat97\_68 (B1), Schadenfreude\_70 (B1), Schueller\_68 (B1), Scoot17C\_71 (B1), Scrick\_69 (B1), Selr12\_71 (B1), Serendipity\_70 (B1), Serpentine\_0071 (B1), ShadowBud\_71 (B1), Sheila\_66 (B1), ShiVal\_68 (B1), Sigman\_70 (B1), SilverBell\_71 (B1), Simielle\_70 (B1), SirBeauregard\_71 (B1), Skippy\_72 (B1), Slatt\_70 (B1), Soile\_71 (B1), Solosis\_68 (B1), Sophia\_68 (B1), Soto\_67 (B1), Spartan300\_69 (B1), Squid\_69 (B1), Squiggle\_69 (B1), Struggle\_70 (B1), Suffolk\_68 (B1), Surely\_70 (B1), Swiphy\_72 (B1), Swish\_71 (B1), TallGrassMM\_69 (B1), Taraxa\_70 (B1), Telesworld\_68 (B1), Thora\_69 (B1), ThreeOh3D2\_72 (B1), Thunderbird\_70 (B1), Timmi\_69 (B1), TomBombadil\_70 (B1), Tomlarah\_71 (B1), Toni\_70 (B1), TooFast2Furius\_69 (B1), Tooj\_68 (B1), Triad\_71 (B1), True\_68 (B1), Trypo\_71 (B1), TyrionL\_70 (B1), UAch1\_71 (B1), UncleHowie\_67 (B1), Usavi\_71 (B1), Vaishali24\_71 (B1), Valjean\_69

(B1), Vaticameos\_67 (B1), Veritas\_69 (B1), Virapocalypse\_71 (B1), Virgeve\_68 (B1), Vista\_69 (B1), Vivaldi\_70 (B1), Vortex\_69 (B1), Wallhey\_71 (B1), Waterdiva\_71 (B1), Weher20\_67 (B1), Windsor\_70 (B1), Xavier\_70 (B1), Yoshand\_71 (B1), YouGoGlencoco\_70 (B1), Zaider\_71 (B1), Zelda\_70 (B1), Zonia\_71 (B1),

Start 35:

- Found in 2 of 389 ( 0.5% ) of genes in pham
- Manual Annotations of this start: 2 of 338
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlovu\_68 (B11), Thonko\_73 (B8),

Start 36:

- Found in 44 of 389 ( 11.3% ) of genes in pham
- Manual Annotations of this start: 28 of 338
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC\_068 (B6), 40BC\_068 (B6), Ahwei\_65 (B4), Antihero\_65 (B4), Apex\_68 (B4), Austelle\_67 (B4), BobbyK\_68 (B4), BrownCNA\_69 (B4), ChrisnMich\_67 (B4), Cooper\_69 (B4), Epah\_65 (B4), Fanaw\_64 (B4), ForDig\_67 (B6), Fortunato\_68 (B4), Frederick\_69 (B4), GinPorsche\_67 (B4), Hally898\_65 (B4), Hangman\_68 (B4), Heath\_67 (B4), Hosp\_064 (B6), Hydro\_68 (B4), JaguarMi\_68 (B4), Jolie1\_066 (B6), JoyceMaria\_67 (B4), KayaCho\_66 (B6), Lambano\_65 (B4), LittleDigger\_66 (B4), Lolalove\_69 (B4), Magpie\_65 (B4), Mithril\_67 (B4), Mudslide\_67 (B4), Nanao\_66 (B4), Nigel\_65 (B4), Poster\_65 (B4), Prince\_66 (B4), QueenPie\_62 (B4), RawrgerThat\_68 (B4), Renkei\_66 (B4), Saguaro\_66 (B7), Stinger\_67 (B4), VioletZ\_69 (B4), Waleliano\_67 (B4), Xincheng\_67 (B4), Zemanar\_67 (B4),

Start 37:

- Found in 22 of 389 ( 5.7% ) of genes in pham
- Manual Annotations of this start: 12 of 338
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Acadian\_71 (B5), Bae\_71 (B5), DigitDog\_71 (B5), Donny\_72 (B5), EastView9101\_70 (B5), KarasumaRum\_70 (B5), LilMcDreamy\_69 (B12), Mysterious\_69 (B5), Nangang\_70 (B5), Nehemiah\_69 (B5), Phelemich\_67 (B5), Reccee\_71 (B5), Reprobate\_69 (B5), Rich\_70 (B5), Rita130\_70 (B5), Serendipitous\_69 (B5), Shenyu\_71 (B5), SirJeffery\_70 (B5), StinkyVeggy\_70 (B5), Suigeneris\_72 (B5),

### Summary by clusters:

There are 10 clusters represented in this pham: B4, B5, B6, B7, B12, B1, B10, B11, B8, B9,

Info for manual annotations of cluster B1:

- Start number 32 was manually annotated 288 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 31 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 35 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 37 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B4:

- Start number 28 was manually annotated 2 times for cluster B4.
- Start number 36 was manually annotated 25 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 37 was manually annotated 11 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 36 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:

- Start number 36 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 35 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 29 was manually annotated 1 time for cluster B9.
- Start number 30 was manually annotated 1 time for cluster B9.
- Start number 31 was manually annotated 3 times for cluster B9.

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

Gene: 39HC\_068 Start: 58083, Stop: 58772, Start Num: 36

Candidate Starts for 39HC\_068:

(16, 57918), (18, 57927), (24, 57987), (26, 57993), (27, 58011), (33, 58065), (Start: 36 @58083 has 28 MA's), (40, 58113), (44, 58149), (46, 58152), (51, 58200), (53, 58212), (55, 58233), (61, 58278), (62, 58281), (68, 58335), (69, 58338), (71, 58362), (80, 58425), (89, 58581), (96, 58614),

Gene: 40BC\_068 Start: 58083, Stop: 58772, Start Num: 36

Candidate Starts for 40BC\_068:

(16, 57918), (18, 57927), (24, 57987), (26, 57993), (27, 58011), (33, 58065), (Start: 36 @58083 has 28 MA's), (40, 58113), (44, 58149), (46, 58152), (51, 58200), (53, 58212), (55, 58233), (61, 58278), (62, 58281), (68, 58335), (69, 58338), (71, 58362), (80, 58425), (89, 58581), (96, 58614),

Gene: ABU\_69 Start: 57848, Stop: 58543, Start Num: 32

Candidate Starts for ABU\_69:

(Start: 32 @57848 has 288 MA's), (44, 57938), (47, 57947), (48, 57953), (51, 57989), (52, 57995), (54, 58010), (60, 58064), (61, 58067), (65, 58088), (67, 58103), (68, 58124), (80, 58214), (85, 58262), (99, 58442),

Gene: AbsoluteMadLad\_69 Start: 57803, Stop: 58510, Start Num: 32

Candidate Starts for AbsoluteMadLad\_69:

(Start: 32 @57803 has 288 MA's), (44, 57893), (47, 57902), (48, 57908), (51, 57944), (52, 57950), (54, 57965), (60, 58019), (61, 58022), (65, 58043), (67, 58058), (68, 58079), (80, 58169), (85, 58217),

Gene: Acadian\_71 Start: 59118, Stop: 59765, Start Num: 37

Candidate Starts for Acadian\_71:

(23, 59004), (Start: 37 @59118 has 12 MA's), (52, 59241), (54, 59256), (55, 59268), (63, 59322), (64, 59328), (66, 59346), (68, 59370), (69, 59373), (77, 59442), (78, 59454), (81, 59463), (83, 59481), (88, 59589),

Gene: Adriana\_71 Start: 58383, Stop: 59081, Start Num: 32

Candidate Starts for Adriana\_71:

(Start: 32 @58383 has 288 MA's), (44, 58473), (47, 58482), (48, 58488), (51, 58524), (52, 58530), (54, 58545), (60, 58599), (61, 58602), (65, 58623), (67, 58638), (68, 58659), (80, 58749), (85, 58797),

Gene: Aelin\_69 Start: 57368, Stop: 58066, Start Num: 32

Candidate Starts for Aelin\_69:

(Start: 32 @57368 has 288 MA's), (44, 57458), (47, 57467), (51, 57509), (52, 57515), (54, 57530), (60, 57584), (61, 57587), (65, 57608), (67, 57623), (68, 57644), (80, 57734), (85, 57782),

Gene: Ahwei\_65 Start: 58476, Stop: 59063, Start Num: 36

Candidate Starts for Ahwei\_65:

(1, 58071), (4, 58113), (5, 58197), (9, 58215), (12, 58245), (19, 58341), (20, 58350), (Start: 36 @58476 has 28 MA's), (44, 58542), (46, 58545), (49, 58581), (57, 58632), (61, 58671), (62, 58674), (68, 58728), (69, 58731), (83, 58839), (87, 58902), (94, 59004),

Gene: AlanGrant\_71 Start: 60795, Stop: 61415, Start Num: 28

Candidate Starts for AlanGrant\_71:

(2, 60447), (5, 60546), (7, 60552), (11, 60591), (Start: 28 @60795 has 2 MA's), (46, 60891), (49, 60927), (51, 60939), (53, 60951), (61, 61017), (62, 61020), (68, 61074), (69, 61077), (73, 61107), (83, 61185), (87, 61248), (94, 61350),

Gene: Aleia\_69 Start: 57478, Stop: 58188, Start Num: 32

Candidate Starts for Aleia\_69:

(Start: 32 @57478 has 288 MA's), (44, 57568), (47, 57577), (48, 57583), (51, 57619), (52, 57625), (54, 57640), (60, 57694), (61, 57697), (65, 57718), (67, 57733), (68, 57754), (80, 57844), (85, 57892),

Gene: AltPhacts\_68 Start: 56900, Stop: 57595, Start Num: 32

Candidate Starts for AltPhacts\_68:

(Start: 32 @56900 has 288 MA's), (44, 56990), (47, 56999), (48, 57005), (51, 57041), (52, 57047), (54, 57062), (60, 57116), (61, 57119), (65, 57140), (67, 57155), (68, 57176), (80, 57266), (85, 57314), (99, 57494),

Gene: Altwerkus\_69 Start: 57155, Stop: 57862, Start Num: 32

Candidate Starts for Altwerkus\_69:

(Start: 32 @57155 has 288 MA's), (44, 57245), (47, 57254), (48, 57260), (51, 57296), (52, 57302), (54, 57317), (60, 57371), (61, 57374), (65, 57395), (67, 57410), (68, 57431), (80, 57521), (85, 57569),

Gene: Anderson\_72 Start: 57727, Stop: 58422, Start Num: 32

Candidate Starts for Anderson\_72:

(Start: 32 @57727 has 288 MA's), (44, 57817), (47, 57826), (48, 57832), (51, 57868), (52, 57874), (54, 57889), (60, 57943), (61, 57946), (65, 57967), (67, 57982), (68, 58003), (80, 58093), (85, 58141),

Gene: Andre\_72 Start: 57733, Stop: 58440, Start Num: 32

Candidate Starts for Andre\_72:

(Start: 32 @57733 has 288 MA's), (44, 57823), (47, 57832), (48, 57838), (51, 57874), (52, 57880), (54, 57895), (60, 57949), (61, 57952), (65, 57973), (67, 57988), (68, 58009), (80, 58099), (85, 58147),

Gene: AngelCake\_69 Start: 57470, Stop: 58165, Start Num: 32

Candidate Starts for AngelCake\_69:

(Start: 32 @57470 has 288 MA's), (44, 57560), (47, 57569), (48, 57575), (51, 57611), (52, 57617), (54, 57632), (60, 57686), (61, 57689), (65, 57710), (67, 57725), (68, 57746), (80, 57836), (85, 57884),

Gene: Antihero\_65 Start: 58474, Stop: 59061, Start Num: 36

Candidate Starts for Antihero\_65:

(1, 58069), (4, 58111), (5, 58195), (9, 58213), (12, 58243), (19, 58339), (20, 58348), (Start: 36 @58474 has 28 MA's), (44, 58540), (46, 58543), (49, 58579), (57, 58630), (61, 58669), (62, 58672), (68, 58726), (69, 58729), (83, 58837), (87, 58900), (94, 59002),

Gene: Antonia\_69 Start: 57367, Stop: 58065, Start Num: 32

Candidate Starts for Antonia\_69:

(Start: 32 @57367 has 288 MA's), (44, 57457), (47, 57466), (51, 57508), (52, 57514), (54, 57529), (60, 57583), (61, 57586), (65, 57607), (67, 57622), (68, 57643), (80, 57733), (85, 57781),

Gene: Aonishiki\_71 Start: 57647, Stop: 58354, Start Num: 32

Candidate Starts for Aonishiki\_71:

(Start: 32 @57647 has 288 MA's), (44, 57737), (47, 57746), (51, 57788), (52, 57794), (54, 57809), (60, 57863), (61, 57866), (65, 57887), (67, 57902), (68, 57923), (80, 58013),

Gene: Apex\_68 Start: 59579, Stop: 60166, Start Num: 36

Candidate Starts for Apex\_68:

(19, 59444), (20, 59453), (Start: 36 @59579 has 28 MA's), (40, 59609), (44, 59645), (46, 59648), (49, 59684), (57, 59735), (61, 59774), (62, 59777), (68, 59831), (69, 59834), (74, 59867), (75, 59876), (83, 59942), (87, 60005), (94, 60107),

Gene: Apizium\_69 Start: 56999, Stop: 57709, Start Num: 32

Candidate Starts for Apizium\_69:

(Start: 32 @56999 has 288 MA's), (44, 57089), (47, 57098), (48, 57104), (51, 57140), (52, 57146), (54, 57161), (60, 57215), (61, 57218), (65, 57239), (67, 57254), (68, 57275), (80, 57365), (85, 57413),

Gene: Ashraf\_71 Start: 57709, Stop: 58416, Start Num: 32

Candidate Starts for Ashraf\_71:

(Start: 32 @57709 has 288 MA's), (44, 57799), (47, 57808), (48, 57814), (51, 57850), (52, 57856), (54, 57871), (60, 57925), (61, 57928), (65, 57949), (67, 57964), (68, 57985), (80, 58075), (85, 58123),

Gene: Austelle\_67 Start: 60096, Stop: 60683, Start Num: 36

Candidate Starts for Austelle\_67:

(Start: 36 @60096 has 28 MA's), (40, 60126), (44, 60162), (46, 60165), (49, 60201), (57, 60252), (61, 60291), (62, 60294), (68, 60348), (69, 60351), (74, 60384), (75, 60393), (76, 60414), (83, 60459), (87, 60522),

Gene: Badfish\_71 Start: 58013, Stop: 58720, Start Num: 32

Candidate Starts for Badfish\_71:

(Start: 32 @58013 has 288 MA's), (44, 58103), (47, 58112), (48, 58118), (51, 58154), (52, 58160), (54, 58175), (60, 58229), (61, 58232), (65, 58253), (67, 58268), (68, 58289), (80, 58379), (85, 58427),

Gene: Bae\_71 Start: 60200, Stop: 60841, Start Num: 37

Candidate Starts for Bae\_71:

(Start: 32 @60167 has 288 MA's), (Start: 37 @60200 has 12 MA's), (40, 60230), (52, 60323), (63, 60404), (64, 60410), (66, 60428), (68, 60452), (69, 60455), (77, 60524), (78, 60536), (81, 60545), (83, 60563), (88, 60671), (95, 60737),

Gene: Banjo\_68 Start: 57312, Stop: 58007, Start Num: 32

Candidate Starts for Banjo\_68:

(Start: 32 @57312 has 288 MA's), (44, 57402), (47, 57411), (48, 57417), (51, 57453), (52, 57459), (54, 57474), (60, 57528), (61, 57531), (65, 57552), (67, 57567), (68, 57588), (80, 57678), (85, 57726), (99, 57906),

Gene: Basato\_69 Start: 57588, Stop: 58292, Start Num: 32

Candidate Starts for Basato\_69:

(Start: 32 @57588 has 288 MA's), (44, 57678), (47, 57687), (48, 57693), (51, 57729), (52, 57735), (54, 57750), (60, 57804), (61, 57807), (65, 57828), (67, 57843), (68, 57864), (80, 57954), (85, 58002), (99, 58182),

Gene: BatteryCK\_68 Start: 57282, Stop: 57980, Start Num: 32

Candidate Starts for BatteryCK\_68:

(Start: 32 @57282 has 288 MA's), (44, 57372), (47, 57381), (48, 57387), (51, 57423), (52, 57429), (54, 57444), (60, 57498), (61, 57501), (65, 57522), (67, 57537), (68, 57558), (80, 57648), (85, 57696),

Gene: Beaglebox\_68 Start: 57423, Stop: 58118, Start Num: 32

Candidate Starts for Beaglebox\_68:

(Start: 32 @57423 has 288 MA's), (44, 57513), (47, 57522), (48, 57528), (51, 57564), (52, 57570), (54, 57585), (60, 57639), (61, 57642), (65, 57663), (67, 57678), (68, 57699), (80, 57789), (85, 57837), (99, 58017),

Gene: Bishoperium\_70 Start: 57867, Stop: 58562, Start Num: 32

Candidate Starts for Bishoperium\_70:

(Start: 32 @57867 has 288 MA's), (44, 57957), (47, 57966), (48, 57972), (51, 58008), (52, 58014), (54, 58029), (60, 58083), (61, 58086), (65, 58107), (67, 58122), (68, 58143), (80, 58233), (85, 58281), (99, 58461),

Gene: BlackStallion\_71 Start: 57756, Stop: 58454, Start Num: 32

Candidate Starts for BlackStallion\_71:

(Start: 32 @57756 has 288 MA's), (44, 57846), (47, 57855), (51, 57897), (52, 57903), (54, 57918), (60, 57972), (61, 57975), (65, 57996), (67, 58011), (68, 58032), (80, 58122), (85, 58170), (97, 58323),

Gene: BlacksBerry\_70 Start: 57230, Stop: 57937, Start Num: 32

Candidate Starts for BlacksBerry\_70:

(Start: 32 @57230 has 288 MA's), (44, 57320), (47, 57329), (48, 57335), (51, 57371), (52, 57377), (54, 57392), (60, 57446), (61, 57449), (65, 57470), (67, 57485), (68, 57506), (80, 57596), (85, 57644),

Gene: BlueHusk\_71 Start: 57368, Stop: 58063, Start Num: 32

Candidate Starts for BlueHusk\_71:

(Start: 32 @57368 has 288 MA's), (44, 57458), (47, 57467), (51, 57509), (52, 57515), (54, 57530), (60, 57584), (61, 57587), (65, 57608), (67, 57623), (68, 57644), (80, 57734), (85, 57782), (99, 57962),

Gene: Bluephacebaby\_69 Start: 57900, Stop: 58595, Start Num: 32

Candidate Starts for Bluephacebaby\_69:

(Start: 32 @57900 has 288 MA's), (44, 57990), (47, 57999), (48, 58005), (51, 58041), (52, 58047), (54, 58062), (60, 58116), (61, 58119), (65, 58140), (67, 58155), (68, 58176), (80, 58266), (85, 58314), (99, 58494),

Gene: BobbyK\_68 Start: 59356, Stop: 59943, Start Num: 36

Candidate Starts for BobbyK\_68:

(1, 58951), (3, 58984), (5, 59077), (9, 59095), (12, 59125), (13, 59128), (19, 59221), (20, 59230), (Start: 36 @59356 has 28 MA's), (40, 59386), (44, 59422), (46, 59425), (49, 59461), (57, 59512), (61, 59551), (62, 59554), (68, 59608), (69, 59611), (83, 59719), (86, 59767), (87, 59782), (94, 59884),

Gene: Boehler\_69 Start: 57515, Stop: 58222, Start Num: 32

Candidate Starts for Boehler\_69:

(Start: 32 @57515 has 288 MA's), (44, 57605), (47, 57614), (48, 57620), (51, 57656), (52, 57662), (54, 57677), (60, 57731), (61, 57734), (65, 57755), (67, 57770), (68, 57791), (80, 57881), (85, 57929),

Gene: BoogieWoogie\_70 Start: 57333, Stop: 58028, Start Num: 32

Candidate Starts for BoogieWoogie\_70:

(Start: 32 @57333 has 288 MA's), (44, 57423), (47, 57432), (48, 57438), (51, 57474), (52, 57480), (54, 57495), (60, 57549), (61, 57552), (65, 57573), (67, 57588), (68, 57609), (80, 57699), (85, 57747), (99, 57927),

Gene: Brilliant\_73 Start: 57866, Stop: 58573, Start Num: 32

Candidate Starts for Brilliant\_73:

(Start: 32 @57866 has 288 MA's), (44, 57956), (47, 57965), (48, 57971), (51, 58007), (52, 58013), (54, 58028), (60, 58082), (61, 58085), (65, 58106), (67, 58121), (68, 58142), (80, 58232), (85, 58280),

Gene: BrownCNA\_69 Start: 59733, Stop: 60320, Start Num: 36

Candidate Starts for BrownCNA\_69:

(19, 59598), (20, 59607), (22, 59619), (Start: 36 @59733 has 28 MA's), (40, 59763), (44, 59799), (46, 59802), (49, 59838), (57, 59889), (61, 59928), (62, 59931), (68, 59985), (69, 59988), (74, 60021), (75, 60030), (82, 60087), (83, 60096), (87, 60159), (94, 60261),

Gene: Buckeye\_70 Start: 58402, Stop: 59109, Start Num: 32

Candidate Starts for Buckeye\_70:

(Start: 32 @58402 has 288 MA's), (44, 58492), (47, 58501), (48, 58507), (51, 58543), (52, 58549), (54, 58564), (60, 58618), (61, 58621), (65, 58642), (67, 58657), (68, 58678), (80, 58768), (85, 58816),

Gene: Burr\_70 Start: 57333, Stop: 58028, Start Num: 32

Candidate Starts for Burr\_70:

(Start: 32 @57333 has 288 MA's), (44, 57423), (47, 57432), (48, 57438), (51, 57474), (52, 57480), (54, 57495), (60, 57549), (61, 57552), (65, 57573), (67, 57588), (68, 57609), (80, 57699), (85, 57747), (99, 57927),

Gene: CRB2\_70 Start: 60958, Stop: 61668, Start Num: 31

Candidate Starts for CRB2\_70:

(Start: 31 @60958 has 4 MA's), (34, 60970), (38, 60991), (40, 61012), (44, 61048), (46, 61051), (57, 61138), (62, 61180), (68, 61234), (69, 61237), (72, 61264), (83, 61345),

Gene: CamL\_70 Start: 57635, Stop: 58330, Start Num: 32

Candidate Starts for CamL\_70:

(Start: 32 @57635 has 288 MA's), (44, 57725), (47, 57734), (48, 57740), (51, 57776), (52, 57782), (54, 57797), (60, 57851), (61, 57854), (65, 57875), (67, 57890), (68, 57911), (80, 58001), (85, 58049), (99, 58229),

Gene: CampRoach\_71 Start: 57742, Stop: 58440, Start Num: 32

Candidate Starts for CampRoach\_71:

(Start: 32 @57742 has 288 MA's), (44, 57832), (47, 57841), (48, 57847), (51, 57883), (52, 57889), (54, 57904), (60, 57958), (61, 57961), (65, 57982), (67, 57997), (68, 58018), (80, 58108), (85, 58156),

Gene: Cannibal\_71 Start: 57751, Stop: 58446, Start Num: 32

Candidate Starts for Cannibal\_71:

(Start: 32 @57751 has 288 MA's), (44, 57841), (47, 57850), (48, 57856), (51, 57892), (52, 57898), (54, 57913), (60, 57967), (61, 57970), (65, 57991), (67, 58006), (68, 58027), (80, 58117), (85, 58165),

Gene: Carthage\_70 Start: 57271, Stop: 57969, Start Num: 32

Candidate Starts for Carthage\_70:

(Start: 32 @57271 has 288 MA's), (44, 57361), (47, 57370), (51, 57412), (52, 57418), (54, 57433), (60, 57487), (61, 57490), (65, 57511), (67, 57526), (68, 57547), (80, 57637), (85, 57685),

Gene: Caspiboi\_69 Start: 57575, Stop: 58282, Start Num: 32

Candidate Starts for Caspiboi\_69:

(Start: 32 @57575 has 288 MA's), (44, 57665), (47, 57674), (48, 57680), (51, 57716), (52, 57722), (54, 57737), (60, 57791), (61, 57794), (65, 57815), (67, 57830), (68, 57851), (80, 57941), (85, 57989),

Gene: Chaelin\_71 Start: 57866, Stop: 58573, Start Num: 32

Candidate Starts for Chaelin\_71:

(Start: 32 @57866 has 288 MA's), (44, 57956), (47, 57965), (48, 57971), (51, 58007), (52, 58013), (54, 58028), (60, 58082), (61, 58085), (65, 58106), (67, 58121), (68, 58142), (80, 58232), (85, 58280),

Gene: Chah\_72 Start: 57454, Stop: 58161, Start Num: 32

Candidate Starts for Chah\_72:

(Start: 32 @57454 has 288 MA's), (44, 57544), (47, 57553), (48, 57559), (51, 57595), (52, 57601), (54, 57616), (60, 57670), (61, 57673), (65, 57694), (67, 57709), (68, 57730), (80, 57820), (85, 57868),

Gene: Charles1\_71 Start: 57641, Stop: 58348, Start Num: 32

Candidate Starts for Charles1\_71:

(Start: 32 @57641 has 288 MA's), (44, 57731), (47, 57740), (51, 57782), (52, 57788), (54, 57803), (60, 57857), (61, 57860), (65, 57881), (67, 57896), (68, 57917), (80, 58007), (85, 58055),

Gene: CharlieGBrown\_68 Start: 57257, Stop: 57955, Start Num: 32

Candidate Starts for CharlieGBrown\_68:

(Start: 32 @57257 has 288 MA's), (44, 57347), (47, 57356), (48, 57362), (51, 57398), (52, 57404), (54, 57419), (60, 57473), (61, 57476), (65, 57497), (67, 57512), (68, 57533), (80, 57623), (85, 57671),

Gene: CheetO\_69 Start: 57583, Stop: 58278, Start Num: 32

Candidate Starts for CheetO\_69:

(Start: 32 @57583 has 288 MA's), (44, 57673), (47, 57682), (51, 57724), (52, 57730), (54, 57745), (60, 57799), (61, 57802), (65, 57823), (67, 57838), (68, 57859), (80, 57949), (85, 57997), (99, 58177),

Gene: Cher\_70 Start: 57832, Stop: 58539, Start Num: 32

Candidate Starts for Cher\_70:

(Start: 32 @57832 has 288 MA's), (44, 57922), (47, 57931), (48, 57937), (51, 57973), (52, 57979), (54, 57994), (60, 58048), (61, 58051), (65, 58072), (67, 58087), (68, 58108), (80, 58198), (85, 58246),

Gene: Childish\_70 Start: 58030, Stop: 58737, Start Num: 32

Candidate Starts for Childish\_70:

(Start: 32 @58030 has 288 MA's), (44, 58120), (47, 58129), (48, 58135), (51, 58171), (52, 58177), (54, 58192), (60, 58246), (61, 58249), (65, 58270), (67, 58285), (68, 58306), (80, 58396), (85, 58444), (99, 58624),

Gene: Chipette\_69 Start: 57576, Stop: 58283, Start Num: 32

Candidate Starts for Chipette\_69:

(Start: 32 @57576 has 288 MA's), (44, 57666), (47, 57675), (51, 57717), (52, 57723), (54, 57738), (60, 57792), (61, 57795), (65, 57816), (67, 57831), (68, 57852), (80, 57942), (85, 57990),

Gene: Chorkpop\_71 Start: 57493, Stop: 58200, Start Num: 32

Candidate Starts for Chorkpop\_71:

(Start: 32 @57493 has 288 MA's), (44, 57583), (47, 57592), (51, 57634), (52, 57640), (54, 57655), (60, 57709), (61, 57712), (65, 57733), (67, 57748), (68, 57769), (80, 57859), (85, 57907),

Gene: ChrisnMich\_67 Start: 58458, Stop: 59045, Start Num: 36

Candidate Starts for ChrisnMich\_67:

(19, 58323), (20, 58332), (Start: 36 @58458 has 28 MA's), (44, 58524), (46, 58527), (49, 58563), (57, 58614), (61, 58653), (62, 58656), (68, 58710), (69, 58713), (83, 58821), (87, 58884), (94, 58986),

Gene: Chuni\_71 Start: 58094, Stop: 58789, Start Num: 32

Candidate Starts for Chuni\_71:

(Start: 32 @58094 has 288 MA's), (44, 58184), (47, 58193), (48, 58199), (51, 58235), (52, 58241), (54, 58256), (60, 58310), (61, 58313), (65, 58334), (67, 58349), (68, 58370), (80, 58460), (85, 58508),

Gene: Chunky\_70 Start: 57200, Stop: 57898, Start Num: 32

Candidate Starts for Chunky\_70:

(Start: 32 @57200 has 288 MA's), (44, 57290), (47, 57299), (51, 57341), (52, 57347), (54, 57362), (60, 57416), (61, 57419), (65, 57440), (67, 57455), (68, 57476), (80, 57566), (85, 57614),

Gene: Chute\_70 Start: 57894, Stop: 58592, Start Num: 32

Candidate Starts for Chute\_70:

(Start: 32 @57894 has 288 MA's), (44, 57984), (47, 57993), (48, 57999), (51, 58035), (52, 58041), (54, 58056), (60, 58110), (61, 58113), (65, 58134), (67, 58149), (68, 58170), (80, 58260), (85, 58308),

Gene: Cobra\_70 Start: 57863, Stop: 58570, Start Num: 32

Candidate Starts for Cobra\_70:

(Start: 32 @57863 has 288 MA's), (44, 57953), (47, 57962), (48, 57968), (51, 58004), (52, 58010), (54, 58025), (60, 58079), (61, 58082), (65, 58103), (67, 58118), (68, 58139), (80, 58229), (85, 58277),

Gene: Colbert\_68 Start: 56922, Stop: 57620, Start Num: 32

Candidate Starts for Colbert\_68:

(Start: 32 @56922 has 288 MA's), (44, 57012), (47, 57021), (51, 57063), (52, 57069), (54, 57084), (60, 57138), (61, 57141), (65, 57162), (67, 57177), (68, 57198), (80, 57288),

Gene: Coletti\_73 Start: 58394, Stop: 59092, Start Num: 32

Candidate Starts for Coletti\_73:

(Start: 32 @58394 has 288 MA's), (44, 58484), (47, 58493), (48, 58499), (51, 58535), (52, 58541), (54, 58556), (60, 58610), (61, 58613), (65, 58634), (67, 58649), (68, 58670), (80, 58760), (85, 58808),

Gene: Cooper\_69 Start: 59149, Stop: 59742, Start Num: 36

Candidate Starts for Cooper\_69:

(Start: 36 @59149 has 28 MA's), (44, 59215), (46, 59218), (51, 59266), (57, 59305), (58, 59308), (61, 59344), (62, 59347), (68, 59401), (69, 59404), (83, 59512), (86, 59560), (87, 59575),

Gene: Cornbread\_69 Start: 57532, Stop: 58230, Start Num: 32

Candidate Starts for Cornbread\_69:

(Start: 32 @57532 has 288 MA's), (44, 57622), (47, 57631), (48, 57637), (51, 57673), (52, 57679), (54, 57694), (60, 57748), (61, 57751), (65, 57772), (67, 57787), (68, 57808), (80, 57898), (85, 57946),

Gene: Cornobble\_68 Start: 57357, Stop: 58055, Start Num: 32

Candidate Starts for Cornobble\_68:

(Start: 32 @57357 has 288 MA's), (44, 57447), (47, 57456), (51, 57498), (52, 57504), (54, 57519), (60, 57573), (61, 57576), (65, 57597), (67, 57612), (68, 57633), (80, 57723),

Gene: Cosmolli16\_72 Start: 58211, Stop: 58915, Start Num: 32

Candidate Starts for Cosmolli16\_72:

(Start: 32 @58211 has 288 MA's), (44, 58301), (47, 58310), (48, 58316), (51, 58352), (52, 58358), (54, 58373), (60, 58427), (61, 58430), (65, 58451), (67, 58466), (68, 58487), (80, 58577), (85, 58625), (99, 58805),

Gene: Craff\_73 Start: 58266, Stop: 58961, Start Num: 32

Candidate Starts for Craff\_73:

(Start: 32 @58266 has 288 MA's), (44, 58356), (47, 58365), (48, 58371), (51, 58407), (52, 58413), (54, 58428), (60, 58482), (61, 58485), (65, 58506), (67, 58521), (68, 58542), (80, 58632), (85, 58680), (99, 58860),

Gene: Crownjwl\_68 Start: 57355, Stop: 58062, Start Num: 32

Candidate Starts for Crownjwl\_68:

(Start: 32 @57355 has 288 MA's), (44, 57445), (47, 57454), (48, 57460), (51, 57496), (52, 57502), (54, 57517), (60, 57571), (61, 57574), (65, 57595), (67, 57610), (68, 57631), (80, 57721), (85, 57769),

Gene: DaddyDaniels\_73 Start: 57987, Stop: 58682, Start Num: 32

Candidate Starts for DaddyDaniels\_73:

(Start: 32 @57987 has 288 MA's), (44, 58077), (47, 58086), (48, 58092), (51, 58128), (52, 58134), (54, 58149), (60, 58203), (61, 58206), (65, 58227), (67, 58242), (68, 58263), (80, 58353), (85, 58401), (99, 58581),

Gene: Daffy\_69 Start: 57478, Stop: 58185, Start Num: 32

Candidate Starts for Daffy\_69:

(Start: 32 @57478 has 288 MA's), (44, 57568), (47, 57577), (51, 57619), (52, 57625), (54, 57640), (60, 57694), (61, 57697), (65, 57718), (67, 57733), (68, 57754), (80, 57844), (85, 57892),

Gene: Daka\_72 Start: 57848, Stop: 58543, Start Num: 32

Candidate Starts for Daka\_72:

(Start: 32 @57848 has 288 MA's), (44, 57938), (47, 57947), (51, 57989), (52, 57995), (54, 58010), (60, 58064), (61, 58067), (65, 58088), (67, 58103), (68, 58124), (80, 58214), (85, 58262), (99, 58442),

Gene: Dati\_67 Start: 57648, Stop: 58355, Start Num: 32

Candidate Starts for Dati\_67:

(Start: 32 @57648 has 288 MA's), (44, 57738), (47, 57747), (48, 57753), (51, 57789), (52, 57795), (54, 57810), (60, 57864), (61, 57867), (65, 57888), (67, 57903), (68, 57924), (80, 58014), (85, 58062),

Gene: DelRivs\_68 Start: 57303, Stop: 58001, Start Num: 32

Candidate Starts for DelRivs\_68:

(Start: 32 @57303 has 288 MA's), (44, 57393), (47, 57402), (48, 57408), (51, 57444), (52, 57450), (54, 57465), (60, 57519), (61, 57522), (65, 57543), (67, 57558), (68, 57579), (80, 57669), (85, 57717),

Gene: Derpp\_70 Start: 57403, Stop: 58107, Start Num: 32

Candidate Starts for Derpp\_70:

(Start: 32 @57403 has 288 MA's), (44, 57493), (47, 57502), (51, 57544), (52, 57550), (54, 57565), (60, 57619), (61, 57622), (65, 57643), (67, 57658), (68, 57679), (80, 57769), (85, 57817), (99, 57997),

Gene: Dice\_69 Start: 57331, Stop: 58026, Start Num: 32

Candidate Starts for Dice\_69:

(Start: 32 @57331 has 288 MA's), (44, 57421), (47, 57430), (48, 57436), (51, 57472), (52, 57478), (54, 57493), (60, 57547), (61, 57550), (65, 57571), (67, 57586), (68, 57607), (80, 57697), (85, 57745), (99, 57925),

Gene: DigitDog\_71 Start: 59261, Stop: 59914, Start Num: 37

Candidate Starts for DigitDog\_71:

(8, 59000), (23, 59147), (Start: 37 @59261 has 12 MA's), (52, 59384), (54, 59399), (64, 59471), (66, 59489), (68, 59513), (69, 59516), (70, 59528), (77, 59585), (78, 59597), (81, 59606), (83, 59624), (88, 59732),

Gene: Dingo\_67 Start: 56876, Stop: 57583, Start Num: 32

Candidate Starts for Dingo\_67:

(Start: 32 @56876 has 288 MA's), (44, 56966), (47, 56975), (51, 57017), (52, 57023), (54, 57038), (60, 57092), (61, 57095), (65, 57116), (67, 57131), (68, 57152), (80, 57242), (85, 57290), (99, 57470),

Gene: Dione\_68 Start: 57065, Stop: 57760, Start Num: 32

Candidate Starts for Dione\_68:

(Start: 32 @57065 has 288 MA's), (44, 57155), (47, 57164), (48, 57170), (51, 57206), (52, 57212), (54, 57227), (60, 57281), (61, 57284), (65, 57305), (67, 57320), (68, 57341), (80, 57431), (85, 57479), (99, 57659),

Gene: DirtJuice\_70 Start: 57639, Stop: 58334, Start Num: 32

Candidate Starts for DirtJuice\_70:

(Start: 32 @57639 has 288 MA's), (44, 57729), (47, 57738), (51, 57780), (52, 57786), (54, 57801), (60, 57855), (61, 57858), (65, 57879), (67, 57894), (68, 57915), (80, 58005), (85, 58053), (99, 58233),

Gene: Doddsville\_68 Start: 57366, Stop: 58073, Start Num: 32

Candidate Starts for Doddsville\_68:

(Start: 32 @57366 has 288 MA's), (44, 57456), (47, 57465), (48, 57471), (51, 57507), (52, 57513), (54, 57528), (60, 57582), (61, 57585), (65, 57606), (67, 57621), (68, 57642), (80, 57732), (85, 57780),

Gene: DoesntMatter\_67 Start: 57355, Stop: 58050, Start Num: 32

Candidate Starts for DoesntMatter\_67:

(Start: 32 @57355 has 288 MA's), (44, 57445), (47, 57454), (48, 57460), (51, 57496), (52, 57502), (54, 57517), (60, 57571), (61, 57574), (65, 57595), (67, 57610), (68, 57631), (80, 57721), (85, 57769), (99, 57949),

Gene: DolOn\_74 Start: 58782, Stop: 59489, Start Num: 32

Candidate Starts for DolOn\_74:

(Start: 32 @58782 has 288 MA's), (44, 58872), (47, 58881), (48, 58887), (51, 58923), (52, 58929), (54, 58944), (60, 58998), (61, 59001), (65, 59022), (67, 59037), (68, 59058), (80, 59148), (85, 59196),

Gene: DonSanchon\_66 Start: 57001, Stop: 57708, Start Num: 32

Candidate Starts for DonSanchon\_66:

(Start: 32 @57001 has 288 MA's), (44, 57091), (47, 57100), (48, 57106), (51, 57142), (52, 57148), (54, 57163), (60, 57217), (61, 57220), (65, 57241), (67, 57256), (68, 57277), (80, 57367), (85, 57415),

Gene: Donny\_72 Start: 59155, Stop: 59805, Start Num: 37

Candidate Starts for Donny\_72:

(23, 59041), (Start: 37 @59155 has 12 MA's), (52, 59278), (54, 59293), (55, 59305), (63, 59359), (64, 59365), (66, 59383), (68, 59407), (69, 59410), (77, 59479), (78, 59491), (81, 59500), (83, 59518), (88,

59626),

Gene: DuchessDung\_69 Start: 56882, Stop: 57589, Start Num: 32

Candidate Starts for DuchessDung\_69:

(Start: 32 @56882 has 288 MA's), (44, 56972), (47, 56981), (48, 56987), (51, 57023), (52, 57029), (54, 57044), (60, 57098), (61, 57101), (65, 57122), (67, 57137), (68, 57158), (80, 57248),

Gene: Duggie\_70 Start: 57629, Stop: 58327, Start Num: 32

Candidate Starts for Duggie\_70:

(Start: 32 @57629 has 288 MA's), (44, 57719), (47, 57728), (51, 57770), (52, 57776), (54, 57791), (60, 57845), (61, 57848), (65, 57869), (67, 57884), (68, 57905), (80, 57995), (85, 58043),

Gene: Durga\_72 Start: 58109, Stop: 58816, Start Num: 32

Candidate Starts for Durga\_72:

(Start: 32 @58109 has 288 MA's), (44, 58199), (47, 58208), (48, 58214), (51, 58250), (52, 58256), (54, 58271), (60, 58325), (61, 58328), (65, 58349), (67, 58364), (68, 58385), (80, 58475), (85, 58523),

Gene: EastView9101\_70 Start: 58862, Stop: 59512, Start Num: 37

Candidate Starts for EastView9101\_70:

(23, 58748), (Start: 37 @58862 has 12 MA's), (52, 58985), (54, 59000), (55, 59012), (63, 59066), (64, 59072), (66, 59090), (68, 59114), (69, 59117), (77, 59186), (78, 59198), (81, 59207), (83, 59225), (88, 59333),

Gene: ElvisPhasley\_71 Start: 58509, Stop: 59207, Start Num: 32

Candidate Starts for ElvisPhasley\_71:

(Start: 32 @58509 has 288 MA's), (44, 58599), (47, 58608), (51, 58650), (52, 58656), (54, 58671), (60, 58725), (61, 58728), (65, 58749), (67, 58764), (68, 58785), (80, 58875), (85, 58923),

Gene: Emiris\_71 Start: 58018, Stop: 58725, Start Num: 32

Candidate Starts for Emiris\_71:

(Start: 32 @58018 has 288 MA's), (44, 58108), (47, 58117), (48, 58123), (51, 58159), (52, 58165), (54, 58180), (60, 58234), (61, 58237), (65, 58258), (67, 58273), (68, 58294), (80, 58384),

Gene: EmpTee\_69 Start: 57575, Stop: 58270, Start Num: 32

Candidate Starts for EmpTee\_69:

(Start: 32 @57575 has 288 MA's), (44, 57665), (47, 57674), (48, 57680), (51, 57716), (52, 57722), (54, 57737), (60, 57791), (61, 57794), (65, 57815), (67, 57830), (68, 57851), (80, 57941), (85, 57989), (99, 58169),

Gene: Epah\_65 Start: 58474, Stop: 59061, Start Num: 36

Candidate Starts for Epah\_65:

(1, 58069), (4, 58111), (5, 58195), (9, 58213), (12, 58243), (19, 58339), (20, 58348), (Start: 36 @58474 has 28 MA's), (44, 58540), (46, 58543), (49, 58579), (57, 58630), (61, 58669), (62, 58672), (68, 58726), (69, 58729), (83, 58837), (87, 58900), (94, 59002),

Gene: Eremos\_69 Start: 57540, Stop: 58247, Start Num: 32

Candidate Starts for Eremos\_69:

(Start: 32 @57540 has 288 MA's), (44, 57630), (47, 57639), (48, 57645), (51, 57681), (52, 57687), (54, 57702), (60, 57756), (61, 57759), (65, 57780), (67, 57795), (68, 57816), (80, 57906), (85, 57954),

Gene: Etaye\_69 Start: 58191, Stop: 58898, Start Num: 32

Candidate Starts for Etaye\_69:

(Start: 32 @58191 has 288 MA's), (44, 58281), (47, 58290), (48, 58296), (51, 58332), (52, 58338), (54, 58353), (60, 58407), (61, 58410), (65, 58431), (67, 58446), (68, 58467), (80, 58557), (85, 58605),

Gene: Eugenia\_71 Start: 58148, Stop: 58855, Start Num: 32

Candidate Starts for Eugenia\_71:

(Start: 32 @58148 has 288 MA's), (44, 58238), (47, 58247), (48, 58253), (51, 58289), (52, 58295), (54, 58310), (60, 58364), (61, 58367), (65, 58388), (67, 58403), (68, 58424), (80, 58514), (85, 58562),

Gene: Fanaw\_64 Start: 59510, Stop: 60097, Start Num: 36

Candidate Starts for Fanaw\_64:

(19, 59375), (20, 59384), (Start: 36 @59510 has 28 MA's), (40, 59540), (44, 59576), (46, 59579), (49, 59615), (51, 59627), (57, 59666), (61, 59705), (62, 59708), (68, 59762), (69, 59765), (82, 59864), (83, 59873), (87, 59936), (94, 60038),

Gene: Fang\_71 Start: 57851, Stop: 58558, Start Num: 32

Candidate Starts for Fang\_71:

(Start: 32 @57851 has 288 MA's), (44, 57941), (47, 57950), (48, 57956), (51, 57992), (52, 57998), (54, 58013), (60, 58067), (61, 58070), (65, 58091), (67, 58106), (68, 58127), (80, 58217), (85, 58265),

Gene: Flake\_69 Start: 57605, Stop: 58312, Start Num: 32

Candidate Starts for Flake\_69:

(Start: 32 @57605 has 288 MA's), (44, 57695), (47, 57704), (51, 57746), (52, 57752), (54, 57767), (60, 57821), (61, 57824), (65, 57845), (67, 57860), (68, 57881), (80, 57971), (85, 58019),

Gene: FleetyMac\_73 Start: 57546, Stop: 58241, Start Num: 32

Candidate Starts for FleetyMac\_73:

(Start: 32 @57546 has 288 MA's), (44, 57636), (47, 57645), (48, 57651), (51, 57687), (52, 57693), (54, 57708), (60, 57762), (61, 57765), (65, 57786), (67, 57801), (68, 57822), (80, 57912), (85, 57960), (99, 58140),

Gene: FluffyNinja\_71 Start: 57757, Stop: 58455, Start Num: 32

Candidate Starts for FluffyNinja\_71:

(Start: 32 @57757 has 288 MA's), (44, 57847), (47, 57856), (51, 57898), (52, 57904), (54, 57919), (60, 57973), (61, 57976), (65, 57997), (67, 58012), (68, 58033), (80, 58123), (85, 58171), (97, 58324),

Gene: ForDig\_67 Start: 58034, Stop: 58732, Start Num: 36

Candidate Starts for ForDig\_67:

(Start: 36 @58034 has 28 MA's), (40, 58064), (44, 58100), (46, 58103), (51, 58151), (53, 58163), (55, 58184), (61, 58229), (62, 58232), (68, 58286), (69, 58289), (71, 58313), (80, 58376), (96, 58574),

Gene: Fortunato\_68 Start: 59509, Stop: 60096, Start Num: 36

Candidate Starts for Fortunato\_68:

(Start: 36 @59509 has 28 MA's), (40, 59539), (44, 59575), (46, 59578), (49, 59614), (57, 59665), (61, 59704), (62, 59707), (68, 59761), (69, 59764), (74, 59797), (75, 59806), (82, 59863), (83, 59872), (87, 59935), (94, 60037),

Gene: Fozzie\_68 Start: 57856, Stop: 58563, Start Num: 32

Candidate Starts for Fozzie\_68:

(Start: 32 @57856 has 288 MA's), (44, 57946), (47, 57955), (48, 57961), (51, 57997), (52, 58003), (54, 58018), (60, 58072), (61, 58075), (65, 58096), (67, 58111), (68, 58132), (80, 58222), (85, 58270),

Gene: Frankicide\_69 Start: 57539, Stop: 58237, Start Num: 32

Candidate Starts for Frankicide\_69:

(Start: 32 @57539 has 288 MA's), (44, 57629), (47, 57638), (51, 57680), (52, 57686), (54, 57701), (60, 57755), (61, 57758), (65, 57779), (67, 57794), (68, 57815), (80, 57905), (85, 57953), (99, 58133),

Gene: Frederick\_69 Start: 59456, Stop: 60043, Start Num: 36

Candidate Starts for Frederick\_69:

(1, 59051), (3, 59084), (5, 59177), (9, 59195), (12, 59225), (13, 59228), (19, 59321), (20, 59330), (Start: 36 @59456 has 28 MA's), (44, 59522), (46, 59525), (49, 59561), (57, 59612), (61, 59651), (62, 59654), (68, 59708), (69, 59711), (83, 59819), (86, 59867), (87, 59882), (94, 59984),

Gene: FremontTroll\_68 Start: 57960, Stop: 58655, Start Num: 32

Candidate Starts for FremontTroll\_68:

(Start: 32 @57960 has 288 MA's), (44, 58050), (47, 58059), (48, 58065), (51, 58101), (52, 58107), (54, 58122), (60, 58176), (61, 58179), (65, 58200), (67, 58215), (68, 58236), (80, 58326), (85, 58374), (99, 58554),

Gene: Freya\_67 Start: 57025, Stop: 57729, Start Num: 32

Candidate Starts for Freya\_67:

(Start: 32 @57025 has 288 MA's), (44, 57115), (47, 57124), (48, 57130), (51, 57166), (52, 57172), (54, 57187), (60, 57241), (61, 57244), (65, 57265), (67, 57280), (68, 57301), (80, 57391), (85, 57439), (99, 57619),

Gene: FriarPreacher\_68 Start: 57402, Stop: 58097, Start Num: 32

Candidate Starts for FriarPreacher\_68:

(Start: 32 @57402 has 288 MA's), (44, 57492), (47, 57501), (48, 57507), (51, 57543), (52, 57549), (54, 57564), (60, 57618), (61, 57621), (65, 57642), (67, 57657), (68, 57678), (80, 57768), (85, 57816), (99, 57996),

Gene: Fringe\_74 Start: 58200, Stop: 58907, Start Num: 32

Candidate Starts for Fringe\_74:

(Start: 32 @58200 has 288 MA's), (44, 58290), (47, 58299), (48, 58305), (51, 58341), (52, 58347), (54, 58362), (60, 58416), (61, 58419), (65, 58440), (67, 58455), (68, 58476), (80, 58566), (85, 58614), (97, 58767),

Gene: FugateOSU\_70 Start: 58355, Stop: 59053, Start Num: 32

Candidate Starts for FugateOSU\_70:

(Start: 32 @58355 has 288 MA's), (44, 58445), (47, 58454), (48, 58460), (51, 58496), (52, 58502), (54, 58517), (60, 58571), (61, 58574), (65, 58595), (67, 58610), (68, 58631), (80, 58721), (85, 58769),

Gene: Funsized\_71 Start: 61219, Stop: 61962, Start Num: 29

Candidate Starts for Funsized\_71:

(Start: 29 @61219 has 1 MA's), (Start: 31 @61225 has 4 MA's), (44, 61312), (46, 61315), (52, 61369), (57, 61402), (58, 61405), (62, 61444), (68, 61498), (69, 61501), (82, 61600), (87, 61672), (91, 61747),

Gene: Gareth\_70 Start: 57851, Stop: 58558, Start Num: 32

Candidate Starts for Gareth\_70:

(Start: 32 @57851 has 288 MA's), (44, 57941), (47, 57950), (48, 57956), (51, 57992), (52, 57998), (54, 58013), (60, 58067), (61, 58070), (65, 58091), (67, 58106), (68, 58127), (80, 58217), (85, 58265),

Gene: GeneCoco\_71 Start: 58025, Stop: 58723, Start Num: 32

Candidate Starts for GeneCoco\_71:

(Start: 32 @58025 has 288 MA's), (44, 58115), (47, 58124), (48, 58130), (51, 58166), (52, 58172), (54, 58187), (60, 58241), (61, 58244), (65, 58265), (67, 58280), (68, 58301), (80, 58391), (85, 58439),

Gene: GinPorsche\_67 Start: 58474, Stop: 59061, Start Num: 36

Candidate Starts for GinPorsche\_67:

(1, 58069), (4, 58111), (5, 58195), (9, 58213), (12, 58243), (19, 58339), (20, 58348), (Start: 36 @58474 has 28 MA's), (44, 58540), (46, 58543), (49, 58579), (57, 58630), (61, 58669), (62, 58672), (68, 58726), (69, 58729), (83, 58837), (87, 58900), (94, 59002),

Gene: Giraffe\_70 Start: 57846, Stop: 58553, Start Num: 32

Candidate Starts for Giraffe\_70:

(Start: 32 @57846 has 288 MA's), (44, 57936), (47, 57945), (48, 57951), (51, 57987), (52, 57993), (54, 58008), (60, 58062), (61, 58065), (65, 58086), (67, 58101), (68, 58122), (80, 58212), (85, 58260),

Gene: Gophee\_71 Start: 57858, Stop: 58553, Start Num: 32

Candidate Starts for Gophee\_71:

(Start: 32 @57858 has 288 MA's), (44, 57948), (47, 57957), (51, 57999), (52, 58005), (54, 58020), (60, 58074), (61, 58077), (65, 58098), (67, 58113), (68, 58134), (80, 58224), (85, 58272), (99, 58452),

Gene: Grand2040\_68 Start: 57824, Stop: 58531, Start Num: 32

Candidate Starts for Grand2040\_68:

(Start: 32 @57824 has 288 MA's), (44, 57914), (47, 57923), (48, 57929), (51, 57965), (52, 57971), (54, 57986), (60, 58040), (61, 58043), (65, 58064), (67, 58079), (68, 58100), (80, 58190), (85, 58238),

Gene: GreenChile\_69 Start: 57376, Stop: 58074, Start Num: 32

Candidate Starts for GreenChile\_69:

(Start: 32 @57376 has 288 MA's), (44, 57466), (47, 57475), (51, 57517), (52, 57523), (54, 57538), (60, 57592), (61, 57595), (65, 57616), (67, 57631), (68, 57652), (80, 57742), (85, 57790),

Gene: Gwennie1\_69 Start: 57707, Stop: 58414, Start Num: 32

Candidate Starts for Gwennie1\_69:

(Start: 32 @57707 has 288 MA's), (44, 57797), (47, 57806), (48, 57812), (51, 57848), (52, 57854), (54, 57869), (60, 57923), (61, 57926), (65, 57947), (67, 57962), (68, 57983), (80, 58073), (85, 58121),

Gene: Gwilliam\_71 Start: 58215, Stop: 58922, Start Num: 32

Candidate Starts for Gwilliam\_71:

(Start: 32 @58215 has 288 MA's), (44, 58305), (47, 58314), (48, 58320), (51, 58356), (52, 58362), (54, 58377), (60, 58431), (61, 58434), (65, 58455), (67, 58470), (68, 58491), (80, 58581), (85, 58629),

Gene: Gyarad\_0069 Start: 57171, Stop: 57878, Start Num: 32

Candidate Starts for Gyarad\_0069:

(Start: 32 @57171 has 288 MA's), (44, 57261), (47, 57270), (48, 57276), (51, 57312), (52, 57318), (54, 57333), (60, 57387), (61, 57390), (65, 57411), (67, 57426), (68, 57447), (80, 57537), (85, 57585),

Gene: HSavage\_68 Start: 57373, Stop: 58068, Start Num: 32

Candidate Starts for HSavage\_68:

(Start: 32 @57373 has 288 MA's), (44, 57463), (47, 57472), (51, 57514), (52, 57520), (54, 57535), (60, 57589), (61, 57592), (65, 57613), (67, 57628), (68, 57649), (80, 57739), (85, 57787), (99, 57967),

Gene: Haimas\_68 Start: 57302, Stop: 58009, Start Num: 32

Candidate Starts for Haimas\_68:

(Start: 32 @57302 has 288 MA's), (44, 57392), (47, 57401), (48, 57407), (51, 57443), (52, 57449), (54, 57464), (60, 57518), (61, 57521), (65, 57542), (67, 57557), (68, 57578), (80, 57668), (85, 57716),

Gene: Haleema\_69 Start: 57392, Stop: 58099, Start Num: 32

Candidate Starts for Haleema\_69:

(Start: 32 @57392 has 288 MA's), (44, 57482), (47, 57491), (48, 57497), (51, 57533), (52, 57539), (54, 57554), (60, 57608), (61, 57611), (65, 57632), (67, 57647), (68, 57668), (80, 57758), (85, 57806),

Gene: Hally898\_65 Start: 58489, Stop: 59076, Start Num: 36

Candidate Starts for Hally898\_65:

(1, 58084), (4, 58126), (5, 58210), (9, 58228), (12, 58258), (19, 58354), (20, 58363), (Start: 36 @58489 has 28 MA's), (44, 58555), (46, 58558), (49, 58594), (57, 58645), (61, 58684), (62, 58687), (68, 58741), (69, 58744), (83, 58852), (87, 58915), (94, 59017),

Gene: Hamish\_67 Start: 57408, Stop: 58106, Start Num: 32

Candidate Starts for Hamish\_67:

(Start: 32 @57408 has 288 MA's), (44, 57498), (47, 57507), (51, 57549), (52, 57555), (54, 57570), (60, 57624), (61, 57627), (65, 57648), (67, 57663), (68, 57684), (80, 57774), (85, 57822),

Gene: Hangman\_68 Start: 59655, Stop: 60242, Start Num: 36

Candidate Starts for Hangman\_68:

(19, 59520), (20, 59529), (22, 59541), (Start: 36 @59655 has 28 MA's), (40, 59685), (44, 59721), (46, 59724), (49, 59760), (57, 59811), (61, 59850), (62, 59853), (68, 59907), (69, 59910), (74, 59943), (75, 59952), (82, 60009), (83, 60018), (87, 60081), (94, 60183),

Gene: Happabalu\_68 Start: 58494, Stop: 59201, Start Num: 32

Candidate Starts for Happabalu\_68:

(Start: 32 @58494 has 288 MA's), (44, 58584), (47, 58593), (48, 58599), (51, 58635), (52, 58641), (54, 58656), (60, 58710), (61, 58713), (65, 58734), (67, 58749), (68, 58770), (80, 58860), (85, 58908),

Gene: Hartsy\_69 Start: 57504, Stop: 58211, Start Num: 32

Candidate Starts for Hartsy\_69:

(Start: 32 @57504 has 288 MA's), (44, 57594), (47, 57603), (48, 57609), (51, 57645), (52, 57651), (54, 57666), (60, 57720), (61, 57723), (65, 57744), (67, 57759), (68, 57780), (80, 57870), (85, 57918),

Gene: Harvey\_67 Start: 57331, Stop: 58038, Start Num: 32

Candidate Starts for Harvey\_67:

(Start: 32 @57331 has 288 MA's), (44, 57421), (47, 57430), (48, 57436), (51, 57472), (52, 57478), (54, 57493), (60, 57547), (61, 57550), (65, 57571), (67, 57586), (68, 57607), (80, 57697), (85, 57745),

Gene: Heath\_67 Start: 59282, Stop: 59869, Start Num: 36

Candidate Starts for Heath\_67:

(19, 59147), (20, 59156), (22, 59168), (Start: 36 @59282 has 28 MA's), (40, 59312), (44, 59348), (46, 59351), (49, 59387), (57, 59438), (61, 59477), (62, 59480), (68, 59534), (69, 59537), (82, 59636), (83, 59645), (87, 59708), (94, 59810),

Gene: Hekos\_68 Start: 57208, Stop: 57903, Start Num: 32

Candidate Starts for Hekos\_68:

(Start: 32 @57208 has 288 MA's), (44, 57298), (47, 57307), (51, 57349), (52, 57355), (54, 57370), (60, 57424), (61, 57427), (65, 57448), (67, 57463), (68, 57484), (80, 57574), (85, 57622),

Gene: Held\_68 Start: 57305, Stop: 58012, Start Num: 32

Candidate Starts for Held\_68:

(Start: 32 @57305 has 288 MA's), (44, 57395), (47, 57404), (48, 57410), (51, 57446), (52, 57452), (54, 57467), (60, 57521), (61, 57524), (65, 57545), (67, 57560), (68, 57581), (80, 57671), (85, 57719),

Gene: HenryJackson\_71 Start: 58019, Stop: 58726, Start Num: 32

Candidate Starts for HenryJackson\_71:

(Start: 32 @58019 has 288 MA's), (44, 58109), (47, 58118), (48, 58124), (51, 58160), (52, 58166), (54, 58181), (60, 58235), (61, 58238), (65, 58259), (67, 58274), (68, 58295), (80, 58385), (85, 58433),

Gene: Hertubise\_70 Start: 57785, Stop: 58492, Start Num: 32

Candidate Starts for Hertubise\_70:

(Start: 32 @57785 has 288 MA's), (44, 57875), (47, 57884), (48, 57890), (51, 57926), (52, 57932), (54, 57947), (60, 58001), (61, 58004), (65, 58025), (67, 58040), (68, 58061), (80, 58151), (85, 58199),

Gene: Hetaeria\_70 Start: 57725, Stop: 58423, Start Num: 32

Candidate Starts for Hetaeria\_70:

(Start: 32 @57725 has 288 MA's), (44, 57815), (47, 57824), (48, 57830), (51, 57866), (52, 57872), (54, 57887), (60, 57941), (61, 57944), (65, 57965), (67, 57980), (68, 58001), (80, 58091), (85, 58139),

Gene: HighStump\_71 Start: 57808, Stop: 58515, Start Num: 32

Candidate Starts for HighStump\_71:

(Start: 32 @57808 has 288 MA's), (44, 57898), (47, 57907), (48, 57913), (51, 57949), (52, 57955), (54, 57970), (60, 58024), (61, 58027), (65, 58048), (67, 58063), (68, 58084), (80, 58174), (85, 58222),

Gene: Hocus\_68 Start: 57323, Stop: 58030, Start Num: 32

Candidate Starts for Hocus\_68:

(Start: 32 @57323 has 288 MA's), (44, 57413), (47, 57422), (48, 57428), (51, 57464), (52, 57470), (54, 57485), (60, 57539), (61, 57542), (65, 57563), (67, 57578), (68, 57599), (80, 57689), (85, 57737),

Gene: HogWash\_70 Start: 58196, Stop: 58903, Start Num: 32

Candidate Starts for HogWash\_70:

(Start: 32 @58196 has 288 MA's), (44, 58286), (47, 58295), (48, 58301), (51, 58337), (52, 58343), (54, 58358), (60, 58412), (61, 58415), (65, 58436), (67, 58451), (68, 58472), (80, 58562), (85, 58610),

Gene: Horchata\_67 Start: 57326, Stop: 58033, Start Num: 32

Candidate Starts for Horchata\_67:

(Start: 32 @57326 has 288 MA's), (44, 57416), (47, 57425), (48, 57431), (51, 57467), (52, 57473), (54, 57488), (60, 57542), (61, 57545), (65, 57566), (67, 57581), (68, 57602), (80, 57692), (85, 57740),

Gene: Hosp\_064 Start: 55830, Stop: 56528, Start Num: 36

Candidate Starts for Hosp\_064:

(Start: 36 @55830 has 28 MA's), (40, 55860), (44, 55896), (46, 55899), (53, 55959), (55, 55980), (61, 56025), (62, 56028), (68, 56082), (69, 56085), (71, 56109), (80, 56172), (96, 56370),

Gene: Hydro\_68 Start: 59593, Stop: 60180, Start Num: 36

Candidate Starts for Hydro\_68:

(19, 59458), (20, 59467), (22, 59479), (Start: 36 @59593 has 28 MA's), (40, 59623), (44, 59659), (46, 59662), (49, 59698), (57, 59749), (61, 59788), (62, 59791), (68, 59845), (69, 59848), (74, 59881), (75, 59890), (82, 59947), (83, 59956), (87, 60019), (94, 60121),

Gene: ImtiyazSitla\_71 Start: 57709, Stop: 58416, Start Num: 32

Candidate Starts for ImtiyazSitla\_71:

(Start: 32 @57709 has 288 MA's), (44, 57799), (47, 57808), (48, 57814), (51, 57850), (52, 57856), (54, 57871), (60, 57925), (61, 57928), (65, 57949), (67, 57964), (68, 57985), (80, 58075), (85, 58123),

Gene: Imvubu\_68 Start: 57987, Stop: 58691, Start Num: 31

Candidate Starts for Imvubu\_68:

(Start: 31 @57987 has 4 MA's), (43, 58059), (44, 58077), (46, 58080), (47, 58086), (57, 58167), (58, 58170), (62, 58209), (68, 58263), (69, 58266), (87, 58437),

Gene: Inchworm\_71 Start: 57702, Stop: 58397, Start Num: 32

Candidate Starts for Inchworm\_71:

(Start: 32 @57702 has 288 MA's), (44, 57792), (47, 57801), (48, 57807), (51, 57843), (52, 57849), (54, 57864), (60, 57918), (61, 57921), (65, 57942), (67, 57957), (68, 57978), (80, 58068), (85, 58116),

Gene: Indlovu\_68 Start: 59161, Stop: 59871, Start Num: 35

Candidate Starts for Indlovu\_68:

(6, 58894), (15, 59002), (17, 59011), (Start: 35 @59161 has 2 MA's), (38, 59182), (46, 59242), (52, 59296), (54, 59311), (55, 59323), (58, 59332), (68, 59425), (69, 59428), (80, 59515), (82, 59527),

Gene: Inverness\_68 Start: 57335, Stop: 58033, Start Num: 32

Candidate Starts for Inverness\_68:

(Start: 32 @57335 has 288 MA's), (44, 57425), (47, 57434), (51, 57476), (52, 57482), (54, 57497), (60, 57551), (61, 57554), (65, 57575), (67, 57590), (68, 57611), (80, 57701), (85, 57749),

Gene: Iridessa\_72 Start: 57444, Stop: 58142, Start Num: 32

Candidate Starts for Iridessa\_72:

(Start: 32 @57444 has 288 MA's), (44, 57534), (47, 57543), (48, 57549), (51, 57585), (52, 57591), (54, 57606), (60, 57660), (61, 57663), (65, 57684), (67, 57699), (68, 57720), (80, 57810), (85, 57858),

Gene: Iridoclysis\_69 Start: 57619, Stop: 58314, Start Num: 32

Candidate Starts for Iridoclysis\_69:

(Start: 32 @57619 has 288 MA's), (44, 57709), (47, 57718), (48, 57724), (51, 57760), (52, 57766), (54, 57781), (60, 57835), (61, 57838), (65, 57859), (67, 57874), (68, 57895), (80, 57985), (85, 58033), (99, 58213),

Gene: IsaacEli\_72 Start: 58008, Stop: 58706, Start Num: 32

Candidate Starts for IsaacEli\_72:

(Start: 32 @58008 has 288 MA's), (44, 58098), (47, 58107), (48, 58113), (51, 58149), (52, 58155), (54, 58170), (60, 58224), (61, 58227), (65, 58248), (67, 58263), (68, 58284), (80, 58374),

Gene: JDog\_69 Start: 57855, Stop: 58550, Start Num: 32

Candidate Starts for JDog\_69:

(Start: 32 @57855 has 288 MA's), (44, 57945), (47, 57954), (48, 57960), (51, 57996), (52, 58002), (54, 58017), (60, 58071), (61, 58074), (65, 58095), (67, 58110), (68, 58131), (80, 58221), (85, 58269),

Gene: JacAttac\_70 Start: 57329, Stop: 58024, Start Num: 32

Candidate Starts for JacAttac\_70:

(Start: 32 @57329 has 288 MA's), (44, 57419), (47, 57428), (48, 57434), (51, 57470), (52, 57476), (54, 57491), (60, 57545), (61, 57548), (65, 57569), (67, 57584), (68, 57605), (80, 57695), (85, 57743), (99, 57923),

Gene: JaguarMi\_68 Start: 60746, Stop: 61336, Start Num: 36

Candidate Starts for JaguarMi\_68:

(19, 60611), (20, 60620), (Start: 36 @60746 has 28 MA's), (40, 60776), (44, 60812), (46, 60815), (49, 60851), (51, 60863), (57, 60902), (61, 60941), (62, 60944), (68, 60998), (69, 61001), (82, 61100), (83, 61109), (87, 61172), (94, 61274),

Gene: JakeO\_71 Start: 57580, Stop: 58278, Start Num: 32

Candidate Starts for JakeO\_71:

(Start: 32 @57580 has 288 MA's), (44, 57670), (47, 57679), (48, 57685), (51, 57721), (52, 57727), (54, 57742), (60, 57796), (61, 57799), (65, 57820), (67, 57835), (68, 57856), (80, 57946), (85, 57994),

Gene: JangoPhett\_68 Start: 57670, Stop: 58365, Start Num: 32

Candidate Starts for JangoPhett\_68:

(Start: 32 @57670 has 288 MA's), (44, 57760), (47, 57769), (48, 57775), (51, 57811), (52, 57817), (54, 57832), (60, 57886), (61, 57889), (65, 57910), (67, 57925), (68, 57946), (80, 58036), (85, 58084), (99, 58264),

Gene: Jesabah\_72 Start: 58435, Stop: 59130, Start Num: 32

Candidate Starts for Jesabah\_72:

(Start: 32 @58435 has 288 MA's), (44, 58525), (47, 58534), (48, 58540), (51, 58576), (52, 58582), (54, 58597), (60, 58651), (61, 58654), (65, 58675), (67, 58690), (68, 58711), (80, 58801), (85, 58849),

Gene: Jillium\_71 Start: 58014, Stop: 58721, Start Num: 32

Candidate Starts for Jillium\_71:

(Start: 32 @58014 has 288 MA's), (44, 58104), (47, 58113), (48, 58119), (51, 58155), (52, 58161), (54, 58176), (60, 58230), (61, 58233), (65, 58254), (67, 58269), (68, 58290), (80, 58380), (85, 58428),

Gene: Jiminy\_70 Start: 57416, Stop: 58114, Start Num: 32

Candidate Starts for Jiminy\_70:

(Start: 32 @57416 has 288 MA's), (44, 57506), (47, 57515), (48, 57521), (51, 57557), (52, 57563), (54, 57578), (60, 57632), (61, 57635), (65, 57656), (67, 57671), (68, 57692), (80, 57782), (85, 57830),

Gene: Jiraiya\_71 Start: 57612, Stop: 58310, Start Num: 32

Candidate Starts for Jiraiya\_71:

(Start: 32 @57612 has 288 MA's), (44, 57702), (47, 57711), (51, 57753), (52, 57759), (54, 57774), (60, 57828), (61, 57831), (65, 57852), (67, 57867), (68, 57888), (80, 57978), (85, 58026),

Gene: Jolie1\_066 Start: 57958, Stop: 58656, Start Num: 36

Candidate Starts for Jolie1\_066:

(Start: 36 @57958 has 28 MA's), (40, 57988), (44, 58024), (46, 58027), (53, 58087), (55, 58108), (61, 58153), (62, 58156), (68, 58210), (69, 58213), (71, 58237), (80, 58300), (96, 58498),

Gene: JoyceMaria\_67 Start: 59619, Stop: 60206, Start Num: 36

Candidate Starts for JoyceMaria\_67:

(Start: 36 @59619 has 28 MA's), (40, 59649), (44, 59685), (46, 59688), (49, 59724), (57, 59775), (61, 59814), (62, 59817), (68, 59871), (69, 59874), (74, 59907), (75, 59916), (76, 59937), (83, 59982), (87, 60045),

Gene: KLucky39\_68 Start: 57216, Stop: 57923, Start Num: 32

Candidate Starts for KLucky39\_68:

(Start: 32 @57216 has 288 MA's), (44, 57306), (47, 57315), (51, 57357), (52, 57363), (54, 57378), (60, 57432), (61, 57435), (65, 57456), (67, 57471), (68, 57492), (80, 57582), (85, 57630),

Gene: Kahve\_71 Start: 58016, Stop: 58723, Start Num: 32

Candidate Starts for Kahve\_71:

(Start: 32 @58016 has 288 MA's), (44, 58106), (47, 58115), (48, 58121), (51, 58157), (52, 58163), (54, 58178), (60, 58232), (61, 58235), (65, 58256), (67, 58271), (68, 58292), (80, 58382), (85, 58430),

Gene: Kailash\_68 Start: 57726, Stop: 58424, Start Num: 32

Candidate Starts for Kailash\_68:

(Start: 32 @57726 has 288 MA's), (44, 57816), (47, 57825), (48, 57831), (51, 57867), (52, 57873), (54, 57888), (60, 57942), (61, 57945), (65, 57966), (67, 57981), (68, 58002), (80, 58092), (85, 58140),

Gene: KarasumaRum\_70 Start: 59079, Stop: 59732, Start Num: 37

Candidate Starts for KarasumaRum\_70:

(8, 58800), (23, 58959), (Start: 37 @59079 has 12 MA's), (47, 59154), (52, 59202), (54, 59217), (64, 59289), (66, 59307), (68, 59331), (69, 59334), (70, 59346), (77, 59403), (78, 59415), (81, 59424), (83, 59442), (88, 59550), (95, 59616),

Gene: Karn\_70 Start: 57576, Stop: 58283, Start Num: 32

Candidate Starts for Karn\_70:

(Start: 32 @57576 has 288 MA's), (44, 57666), (47, 57675), (48, 57681), (51, 57717), (52, 57723), (54, 57738), (60, 57792), (61, 57795), (65, 57816), (67, 57831), (68, 57852), (80, 57942), (85, 57990),

Gene: Katniss\_72 Start: 57456, Stop: 58163, Start Num: 32

Candidate Starts for Katniss\_72:

(Start: 32 @57456 has 288 MA's), (44, 57546), (47, 57555), (48, 57561), (51, 57597), (52, 57603), (54, 57618), (60, 57672), (61, 57675), (65, 57696), (67, 57711), (68, 57732), (80, 57822), (85, 57870),

Gene: KayaCho\_66 Start: 57943, Stop: 58623, Start Num: 36

Candidate Starts for KayaCho\_66:

(Start: 36 @57943 has 28 MA's), (40, 57973), (44, 58009), (46, 58012), (52, 58066), (55, 58093), (62, 58141), (68, 58195), (69, 58198), (71, 58222), (72, 58225), (80, 58285), (90, 58435), (96, 58468),

Gene: Keitherie\_73 Start: 58078, Stop: 58785, Start Num: 32

Candidate Starts for Keitherie\_73:

(Start: 32 @58078 has 288 MA's), (44, 58168), (47, 58177), (48, 58183), (51, 58219), (52, 58225), (54, 58240), (60, 58294), (61, 58297), (65, 58318), (67, 58333), (68, 58354), (80, 58444), (85, 58492),

Gene: Khan1\_70 Start: 57798, Stop: 58505, Start Num: 32

Candidate Starts for Khan1\_70:

(Start: 32 @57798 has 288 MA's), (44, 57888), (47, 57897), (48, 57903), (51, 57939), (52, 57945), (54, 57960), (60, 58014), (61, 58017), (65, 58038), (67, 58053), (68, 58074), (80, 58164),

Gene: Kikipoo\_72 Start: 58008, Stop: 58706, Start Num: 32

Candidate Starts for Kikipoo\_72:

(Start: 32 @58008 has 288 MA's), (44, 58098), (47, 58107), (48, 58113), (51, 58149), (52, 58155), (54, 58170), (60, 58224), (61, 58227), (65, 58248), (67, 58263), (68, 58284), (80, 58374),

Gene: Kimbrough\_71 Start: 57914, Stop: 58609, Start Num: 32

Candidate Starts for Kimbrough\_71:

(Start: 32 @57914 has 288 MA's), (44, 58004), (47, 58013), (48, 58019), (51, 58055), (52, 58061), (54, 58076), (60, 58130), (61, 58133), (65, 58154), (67, 58169), (68, 58190), (80, 58280), (85, 58328), (99, 58508),

Gene: KingTut\_61 Start: 54063, Stop: 54770, Start Num: 32

Candidate Starts for KingTut\_61:

(Start: 32 @54063 has 288 MA's), (44, 54153), (47, 54162), (48, 54168), (51, 54204), (52, 54210), (54, 54225), (60, 54279), (61, 54282), (65, 54303), (67, 54318), (68, 54339), (80, 54429), (85, 54477),

Gene: KingVeVeVe\_68 Start: 56866, Stop: 57573, Start Num: 32

Candidate Starts for KingVeVeVe\_68:

(Start: 32 @56866 has 288 MA's), (44, 56956), (47, 56965), (51, 57007), (52, 57013), (54, 57028), (60, 57082), (61, 57085), (65, 57106), (67, 57121), (68, 57142), (80, 57232), (85, 57280),

Gene: KlimbOn\_69 Start: 57343, Stop: 58041, Start Num: 32

Candidate Starts for KlimbOn\_69:

(Start: 32 @57343 has 288 MA's), (44, 57433), (47, 57442), (48, 57448), (51, 57484), (52, 57490), (54, 57505), (60, 57559), (61, 57562), (65, 57583), (67, 57598), (68, 57619), (80, 57709), (85, 57757),

Gene: Kloppinator\_70 Start: 57524, Stop: 58222, Start Num: 32

Candidate Starts for Kloppinator\_70:

(Start: 32 @57524 has 288 MA's), (44, 57614), (47, 57623), (51, 57665), (52, 57671), (54, 57686), (60, 57740), (61, 57743), (65, 57764), (67, 57779), (68, 57800), (80, 57890), (85, 57938),

Gene: Kwadwo\_69 Start: 57323, Stop: 58030, Start Num: 32

Candidate Starts for Kwadwo\_69:

(Start: 32 @57323 has 288 MA's), (44, 57413), (47, 57422), (48, 57428), (51, 57464), (52, 57470), (54, 57485), (60, 57539), (61, 57542), (65, 57563), (67, 57578), (68, 57599), (80, 57689), (85, 57737),

Gene: Kwksand96\_71 Start: 57590, Stop: 58297, Start Num: 32

Candidate Starts for Kwksand96\_71:

(Start: 32 @57590 has 288 MA's), (44, 57680), (47, 57689), (48, 57695), (51, 57731), (52, 57737), (54, 57752), (60, 57806), (61, 57809), (65, 57830), (67, 57845), (68, 57866), (80, 57956), (85, 58004),

Gene: Labeouficaum\_70 Start: 57403, Stop: 58107, Start Num: 32

Candidate Starts for Labeouficaum\_70:

(Start: 32 @57403 has 288 MA's), (44, 57493), (47, 57502), (51, 57544), (52, 57550), (54, 57565), (60, 57619), (61, 57622), (65, 57643), (67, 57658), (68, 57679), (80, 57769), (85, 57817), (99, 57997),

Gene: Lambano\_65 Start: 58489, Stop: 59076, Start Num: 36

Candidate Starts for Lambano\_65:

(1, 58084), (4, 58126), (5, 58210), (9, 58228), (12, 58258), (19, 58354), (20, 58363), (Start: 36 @58489 has 28 MA's), (44, 58555), (46, 58558), (49, 58594), (57, 58645), (61, 58684), (62, 58687), (68, 58741), (69, 58744), (83, 58852), (87, 58915), (94, 59017),

Gene: Larson\_72 Start: 57665, Stop: 58372, Start Num: 32

Candidate Starts for Larson\_72:

(Start: 32 @57665 has 288 MA's), (44, 57755), (47, 57764), (51, 57806), (52, 57812), (54, 57827), (60, 57881), (61, 57884), (65, 57905), (67, 57920), (68, 57941), (80, 58031), (85, 58079),

Gene: LasagnaCat\_71 Start: 57714, Stop: 58409, Start Num: 32

Candidate Starts for LasagnaCat\_71:

(Start: 32 @57714 has 288 MA's), (44, 57804), (47, 57813), (48, 57819), (51, 57855), (52, 57861), (54, 57876), (60, 57930), (61, 57933), (65, 57954), (67, 57969), (68, 57990), (80, 58080), (85, 58128),

Gene: Lasso\_69 Start: 57553, Stop: 58260, Start Num: 32

Candidate Starts for Lasso\_69:

(Start: 32 @57553 has 288 MA's), (44, 57643), (47, 57652), (48, 57658), (51, 57694), (52, 57700), (54, 57715), (60, 57769), (61, 57772), (65, 57793), (67, 57808), (68, 57829), (80, 57919), (85, 57967),

Gene: LeeLot\_69 Start: 57909, Stop: 58616, Start Num: 32

Candidate Starts for LeeLot\_69:

(Start: 32 @57909 has 288 MA's), (44, 57999), (47, 58008), (48, 58014), (51, 58050), (52, 58056), (54, 58071), (60, 58125), (61, 58128), (65, 58149), (67, 58164), (68, 58185), (80, 58275), (85, 58323),

Gene: Lego3393\_68 Start: 58035, Stop: 58730, Start Num: 32

Candidate Starts for Lego3393\_68:

(Start: 32 @58035 has 288 MA's), (44, 58125), (47, 58134), (48, 58140), (51, 58176), (52, 58182), (54, 58197), (60, 58251), (61, 58254), (65, 58275), (67, 58290), (68, 58311), (80, 58401), (85, 58449), (99, 58629),

Gene: Legolas\_71 Start: 57648, Stop: 58355, Start Num: 32

Candidate Starts for Legolas\_71:

(Start: 32 @57648 has 288 MA's), (44, 57738), (47, 57747), (48, 57753), (51, 57789), (52, 57795), (54, 57810), (60, 57864), (61, 57867), (65, 57888), (67, 57903), (68, 57924), (80, 58014), (85, 58062),

Gene: Lehmann\_72 Start: 57891, Stop: 58589, Start Num: 32

Candidate Starts for Lehmann\_72:

(Start: 32 @57891 has 288 MA's), (44, 57981), (47, 57990), (51, 58032), (52, 58038), (54, 58053), (60, 58107), (61, 58110), (65, 58131), (67, 58146), (68, 58167), (80, 58257), (85, 58305),

Gene: LeiMonet\_73 Start: 57786, Stop: 58493, Start Num: 32

Candidate Starts for LeiMonet\_73:

(Start: 32 @57786 has 288 MA's), (44, 57876), (47, 57885), (48, 57891), (51, 57927), (52, 57933), (54, 57948), (60, 58002), (61, 58005), (65, 58026), (67, 58041), (68, 58062), (80, 58152), (85, 58200),

Gene: LemonSlice\_70 Start: 57300, Stop: 58007, Start Num: 32

Candidate Starts for LemonSlice\_70:

(Start: 32 @57300 has 288 MA's), (44, 57390), (47, 57399), (48, 57405), (51, 57441), (52, 57447), (54, 57462), (60, 57516), (61, 57519), (65, 57540), (67, 57555), (68, 57576), (80, 57666), (85, 57714),

Gene: LilMcDreamy\_69 Start: 59015, Stop: 59680, Start Num: 37

Candidate Starts for LilMcDreamy\_69:

(Start: 37 @59015 has 12 MA's), (52, 59138), (54, 59153), (55, 59165), (64, 59225), (65, 59231), (66, 59243), (68, 59267), (69, 59270), (78, 59351), (81, 59360), (88, 59492),

Gene: LittleDigger\_66 Start: 58412, Stop: 58999, Start Num: 36

Candidate Starts for LittleDigger\_66:

(1, 58007), (5, 58133), (9, 58151), (12, 58181), (19, 58277), (20, 58286), (Start: 36 @58412 has 28 MA's), (44, 58478), (46, 58481), (49, 58517), (57, 58568), (61, 58607), (62, 58610), (68, 58664), (69, 58667), (83, 58775), (87, 58838), (94, 58940),

Gene: Lolalove\_69 Start: 59664, Stop: 60251, Start Num: 36

Candidate Starts for Lolalove\_69:

(19, 59529), (20, 59538), (Start: 36 @59664 has 28 MA's), (40, 59694), (44, 59730), (46, 59733), (49, 59769), (57, 59820), (61, 59859), (62, 59862), (68, 59916), (69, 59919), (74, 59952), (75, 59961), (82, 60018), (83, 60027), (87, 60090), (94, 60192),

Gene: Longacauda\_71 Start: 57689, Stop: 58396, Start Num: 32

Candidate Starts for Longacauda\_71:

(Start: 32 @57689 has 288 MA's), (44, 57779), (47, 57788), (48, 57794), (51, 57830), (52, 57836), (54, 57851), (60, 57905), (61, 57908), (65, 57929), (67, 57944), (68, 57965), (80, 58055), (85, 58103),

Gene: Lopsy\_67 Start: 57013, Stop: 57711, Start Num: 32

Candidate Starts for Lopsy\_67:

(Start: 32 @57013 has 288 MA's), (44, 57103), (47, 57112), (51, 57154), (52, 57160), (54, 57175), (60, 57229), (61, 57232), (65, 57253), (67, 57268), (68, 57289), (80, 57379), (85, 57427),

Gene: LostAndPhound\_69 Start: 57853, Stop: 58560, Start Num: 32

Candidate Starts for LostAndPhound\_69:

(Start: 32 @57853 has 288 MA's), (44, 57943), (47, 57952), (48, 57958), (51, 57994), (52, 58000), (54, 58015), (60, 58069), (61, 58072), (65, 58093), (67, 58108), (68, 58129), (80, 58219), (85, 58267),

Gene: LuckyMarjie\_67 Start: 57074, Stop: 57769, Start Num: 32

Candidate Starts for LuckyMarjie\_67:

(Start: 32 @57074 has 288 MA's), (44, 57164), (47, 57173), (48, 57179), (51, 57215), (52, 57221), (54, 57236), (60, 57290), (61, 57293), (65, 57314), (67, 57329), (68, 57350), (80, 57440), (85, 57488), (99, 57668),

Gene: Lulumae\_67 Start: 57058, Stop: 57753, Start Num: 32

Candidate Starts for Lulumae\_67:

(Start: 32 @57058 has 288 MA's), (44, 57148), (47, 57157), (48, 57163), (51, 57199), (52, 57205), (54, 57220), (60, 57274), (61, 57277), (65, 57298), (67, 57313), (68, 57334), (80, 57424), (85, 57472), (99, 57652),

Gene: Lulwa\_68 Start: 56677, Stop: 57384, Start Num: 32

Candidate Starts for Lulwa\_68:

(Start: 32 @56677 has 288 MA's), (44, 56767), (47, 56776), (51, 56818), (52, 56824), (54, 56839), (60, 56893), (61, 56896), (65, 56917), (67, 56932), (68, 56953), (80, 57043),

Gene: Lumine\_71 Start: 57512, Stop: 58207, Start Num: 32

Candidate Starts for Lumine\_71:

(Start: 32 @57512 has 288 MA's), (44, 57602), (47, 57611), (48, 57617), (51, 57653), (52, 57659), (54, 57674), (60, 57728), (61, 57731), (65, 57752), (67, 57767), (68, 57788), (80, 57878), (85, 57926), (99, 58106),

Gene: MRabcd\_70 Start: 57796, Stop: 58491, Start Num: 32

Candidate Starts for MRabcd\_70:

(Start: 32 @57796 has 288 MA's), (44, 57886), (47, 57895), (48, 57901), (51, 57937), (52, 57943), (54, 57958), (60, 58012), (61, 58015), (65, 58036), (67, 58051), (68, 58072), (80, 58162), (85, 58210),

Gene: Mag7\_68 Start: 57270, Stop: 57968, Start Num: 32

Candidate Starts for Mag7\_68:

(Start: 32 @57270 has 288 MA's), (44, 57360), (47, 57369), (48, 57375), (51, 57411), (52, 57417), (54, 57432), (60, 57486), (61, 57489), (65, 57510), (67, 57525), (68, 57546), (80, 57636), (85, 57684),

Gene: Magic8\_69 Start: 57634, Stop: 58332, Start Num: 32

Candidate Starts for Magic8\_69:

(Start: 32 @57634 has 288 MA's), (44, 57724), (47, 57733), (48, 57739), (51, 57775), (52, 57781), (54, 57796), (60, 57850), (61, 57853), (65, 57874), (67, 57889), (68, 57910), (80, 58000), (85, 58048),

Gene: Magpie\_65 Start: 59349, Stop: 59936, Start Num: 36

Candidate Starts for Magpie\_65:

(Start: 36 @59349 has 28 MA's), (44, 59415), (46, 59418), (49, 59454), (57, 59505), (61, 59544), (62, 59547), (68, 59601), (69, 59604), (75, 59646), (83, 59712), (87, 59775), (94, 59877),

Gene: Mana\_69 Start: 57469, Stop: 58176, Start Num: 32

Candidate Starts for Mana\_69:

(Start: 32 @57469 has 288 MA's), (44, 57559), (47, 57568), (48, 57574), (51, 57610), (52, 57616), (54, 57631), (60, 57685), (61, 57688), (65, 57709), (67, 57724), (68, 57745), (80, 57835), (85, 57883),

Gene: Manad\_69 Start: 57625, Stop: 58323, Start Num: 32

Candidate Starts for Manad\_69:

(Start: 32 @57625 has 288 MA's), (44, 57715), (47, 57724), (48, 57730), (51, 57766), (52, 57772), (54, 57787), (60, 57841), (61, 57844), (65, 57865), (67, 57880), (68, 57901), (80, 57991), (85, 58039),

Gene: Maru\_70 Start: 57908, Stop: 58615, Start Num: 32

Candidate Starts for Maru\_70:

(Start: 32 @57908 has 288 MA's), (44, 57998), (47, 58007), (48, 58013), (51, 58049), (52, 58055), (54, 58070), (60, 58124), (61, 58127), (65, 58148), (67, 58163), (68, 58184), (80, 58274), (85, 58322),

Gene: Maskar\_71 Start: 57709, Stop: 58416, Start Num: 32

Candidate Starts for Maskar\_71:

(Start: 32 @57709 has 288 MA's), (44, 57799), (47, 57808), (48, 57814), (51, 57850), (52, 57856), (54, 57871), (60, 57925), (61, 57928), (65, 57949), (67, 57964), (68, 57985), (80, 58075), (85, 58123),

Gene: Matalotodo\_69 Start: 58308, Stop: 59015, Start Num: 32

Candidate Starts for Matalotodo\_69:

(Start: 32 @58308 has 288 MA's), (44, 58398), (47, 58407), (48, 58413), (51, 58449), (52, 58455), (54, 58470), (60, 58524), (61, 58527), (65, 58548), (67, 58563), (68, 58584), (80, 58674), (85, 58722),

Gene: Mcshane\_69 Start: 57336, Stop: 58031, Start Num: 32

Candidate Starts for Mcshane\_69:

(Start: 32 @57336 has 288 MA's), (44, 57426), (47, 57435), (48, 57441), (51, 57477), (52, 57483), (54, 57498), (60, 57552), (61, 57555), (65, 57576), (67, 57591), (68, 57612), (80, 57702), (85, 57750), (99, 57930),

Gene: Mecca\_70 Start: 57901, Stop: 58596, Start Num: 32

Candidate Starts for Mecca\_70:

(Start: 32 @57901 has 288 MA's), (44, 57991), (47, 58000), (48, 58006), (51, 58042), (52, 58048), (54, 58063), (60, 58117), (61, 58120), (65, 58141), (67, 58156), (68, 58177), (80, 58267), (85, 58315), (99, 58495),

Gene: Megamind20\_70 Start: 57324, Stop: 58016, Start Num: 32

Candidate Starts for Megamind20\_70:

(Start: 32 @57324 has 288 MA's), (44, 57414), (47, 57423), (48, 57429), (51, 57465), (52, 57471), (54, 57486), (60, 57540), (61, 57543), (65, 57564), (67, 57579), (68, 57600), (80, 57690), (85, 57738),

Gene: Megatron\_71 Start: 57995, Stop: 58702, Start Num: 32

Candidate Starts for Megatron\_71:

(Start: 32 @57995 has 288 MA's), (44, 58085), (47, 58094), (48, 58100), (51, 58136), (52, 58142), (54, 58157), (60, 58211), (61, 58214), (65, 58235), (67, 58250), (68, 58271), (80, 58361), (85, 58409),

Gene: Melc17\_67 Start: 57936, Stop: 58643, Start Num: 32

Candidate Starts for Melc17\_67:

(Start: 32 @57936 has 288 MA's), (44, 58026), (47, 58035), (48, 58041), (51, 58077), (52, 58083), (54, 58098), (60, 58152), (61, 58155), (65, 58176), (67, 58191), (68, 58212), (80, 58302), (85, 58350),

Gene: MelsMeow\_69 Start: 57588, Stop: 58295, Start Num: 32

Candidate Starts for MelsMeow\_69:

(Start: 32 @57588 has 288 MA's), (44, 57678), (47, 57687), (48, 57693), (51, 57729), (52, 57735), (54, 57750), (60, 57804), (61, 57807), (65, 57828), (67, 57843), (68, 57864), (80, 57954), (85, 58002),

Gene: Mesh1\_71 Start: 58044, Stop: 58751, Start Num: 32

Candidate Starts for Mesh1\_71:

(Start: 32 @58044 has 288 MA's), (44, 58134), (47, 58143), (48, 58149), (51, 58185), (52, 58191), (54, 58206), (60, 58260), (61, 58263), (65, 58284), (67, 58299), (68, 58320), (80, 58410), (85, 58458),

Gene: Mesmerelda\_69 Start: 57894, Stop: 58589, Start Num: 32

Candidate Starts for Mesmerelda\_69:

(Start: 32 @57894 has 288 MA's), (44, 57984), (47, 57993), (48, 57999), (51, 58035), (52, 58041), (54, 58056), (60, 58110), (61, 58113), (65, 58134), (67, 58149), (68, 58170), (80, 58260), (85, 58308), (99, 58488),

Gene: MichaelPhcott\_68 Start: 57267, Stop: 57965, Start Num: 32

Candidate Starts for MichaelPhcott\_68:

(Start: 32 @57267 has 288 MA's), (44, 57357), (47, 57366), (48, 57372), (51, 57408), (52, 57414), (54, 57429), (60, 57483), (61, 57486), (65, 57507), (67, 57522), (68, 57543), (80, 57633), (85, 57681),

Gene: Mikota\_67 Start: 56864, Stop: 57571, Start Num: 32

Candidate Starts for Mikota\_67:

(Start: 32 @56864 has 288 MA's), (44, 56954), (47, 56963), (51, 57005), (52, 57011), (54, 57026), (60, 57080), (61, 57083), (65, 57104), (67, 57119), (68, 57140), (80, 57230), (85, 57278), (99, 57458),

Gene: MiniBoss\_67 Start: 56639, Stop: 57346, Start Num: 32

Candidate Starts for MiniBoss\_67:

(Start: 32 @56639 has 288 MA's), (44, 56729), (47, 56738), (48, 56744), (51, 56780), (52, 56786), (54, 56801), (60, 56855), (61, 56858), (65, 56879), (67, 56894), (68, 56915), (80, 57005), (85, 57053), (99, 57233),

Gene: MitKao\_70 Start: 57478, Stop: 58185, Start Num: 32

Candidate Starts for MitKao\_70:

(Start: 32 @57478 has 288 MA's), (44, 57568), (47, 57577), (51, 57619), (52, 57625), (54, 57640), (60, 57694), (61, 57697), (65, 57718), (67, 57733), (68, 57754), (80, 57844), (85, 57892),

Gene: Mithril\_67 Start: 59663, Stop: 60250, Start Num: 36

Candidate Starts for Mithril\_67:

(Start: 36 @59663 has 28 MA's), (40, 59693), (44, 59729), (46, 59732), (49, 59768), (57, 59819), (61, 59858), (62, 59861), (68, 59915), (69, 59918), (74, 59951), (75, 59960), (82, 60017), (83, 60026), (87, 60089), (94, 60191),

Gene: Morgushi\_68 Start: 57293, Stop: 58000, Start Num: 32

Candidate Starts for Morgushi\_68:

(Start: 32 @57293 has 288 MA's), (44, 57383), (47, 57392), (48, 57398), (51, 57434), (52, 57440), (54, 57455), (60, 57509), (61, 57512), (65, 57533), (67, 57548), (68, 57569), (80, 57659), (85, 57707),

Gene: Morty\_71 Start: 57886, Stop: 58593, Start Num: 32

Candidate Starts for Morty\_71:

(Start: 32 @57886 has 288 MA's), (44, 57976), (47, 57985), (51, 58027), (52, 58033), (54, 58048), (60, 58102), (61, 58105), (65, 58126), (67, 58141), (68, 58162), (80, 58252),

Gene: Mosaic\_68 Start: 57473, Stop: 58180, Start Num: 32

Candidate Starts for Mosaic\_68:

(Start: 32 @57473 has 288 MA's), (44, 57563), (47, 57572), (48, 57578), (51, 57614), (52, 57620), (54, 57635), (60, 57689), (61, 57692), (65, 57713), (67, 57728), (68, 57749), (80, 57839), (85, 57887),

Gene: MrPhizzler\_73 Start: 57775, Stop: 58482, Start Num: 32

Candidate Starts for MrPhizzler\_73:

(Start: 32 @57775 has 288 MA's), (44, 57865), (47, 57874), (51, 57916), (52, 57922), (54, 57937), (60, 57991), (61, 57994), (65, 58015), (67, 58030), (68, 58051), (80, 58141), (85, 58189),

Gene: Mudslide\_67 Start: 59684, Stop: 60271, Start Num: 36

Candidate Starts for Mudslide\_67:

(19, 59549), (20, 59558), (Start: 36 @59684 has 28 MA's), (44, 59750), (46, 59753), (49, 59789), (57, 59840), (61, 59879), (62, 59882), (68, 59936), (69, 59939), (75, 59981), (82, 60038), (83, 60047), (87, 60110),

Gene: Mulan\_69 Start: 57533, Stop: 58228, Start Num: 32

Candidate Starts for Mulan\_69:

(Start: 32 @57533 has 288 MA's), (44, 57623), (47, 57632), (48, 57638), (51, 57674), (52, 57680), (54, 57695), (60, 57749), (61, 57752), (65, 57773), (67, 57788), (68, 57809), (80, 57899), (85, 57947),

Gene: Murdoc\_67 Start: 57582, Stop: 58289, Start Num: 32

Candidate Starts for Murdoc\_67:

(Start: 32 @57582 has 288 MA's), (44, 57672), (47, 57681), (48, 57687), (51, 57723), (52, 57729), (54, 57744), (60, 57798), (61, 57801), (65, 57822), (67, 57837), (68, 57858), (80, 57948), (85, 57996),

Gene: Mutante\_71 Start: 57492, Stop: 58187, Start Num: 32

Candidate Starts for Mutante\_71:

(Start: 32 @57492 has 288 MA's), (44, 57582), (47, 57591), (48, 57597), (51, 57633), (52, 57639), (54, 57654), (60, 57708), (61, 57711), (65, 57732), (67, 57747), (68, 57768), (80, 57858), (85, 57906),

Gene: Mysterious\_69 Start: 59187, Stop: 59828, Start Num: 37

Candidate Starts for Mysterious\_69:

(Start: 37 @59187 has 12 MA's), (42, 59232), (52, 59310), (55, 59337), (63, 59391), (64, 59397), (66, 59415), (68, 59439), (69, 59442), (72, 59469), (75, 59484), (78, 59523), (81, 59532), (83, 59550), (84, 59568), (88, 59658),

Gene: Nacho\_0073 Start: 58386, Stop: 59093, Start Num: 32

Candidate Starts for Nacho\_0073:

(Start: 32 @58386 has 288 MA's), (44, 58476), (47, 58485), (51, 58527), (52, 58533), (54, 58548), (60, 58602), (61, 58605), (65, 58626), (67, 58641), (68, 58662), (80, 58752), (85, 58800),

Gene: Nanao\_66 Start: 58479, Stop: 59066, Start Num: 36

Candidate Starts for Nanao\_66:

(1, 58074), (4, 58116), (5, 58200), (9, 58218), (12, 58248), (19, 58344), (20, 58353), (Start: 36 @58479 has 28 MA's), (44, 58545), (46, 58548), (49, 58584), (57, 58635), (61, 58674), (62, 58677), (68, 58731), (69, 58734), (83, 58842), (87, 58905), (94, 59007),

Gene: Nangang\_70 Start: 59260, Stop: 59910, Start Num: 37

Candidate Starts for Nangang\_70:

(8, 58996), (23, 59146), (Start: 37 @59260 has 12 MA's), (42, 59302), (52, 59380), (54, 59395), (64, 59467), (66, 59485), (68, 59509), (69, 59512), (70, 59524), (77, 59581), (78, 59593), (79, 59596), (81, 59602), (83, 59620), (88, 59728),

Gene: Nathan\_71 Start: 57844, Stop: 58551, Start Num: 32

Candidate Starts for Nathan\_71:

(Start: 32 @57844 has 288 MA's), (44, 57934), (47, 57943), (48, 57949), (51, 57985), (52, 57991), (54, 58006), (60, 58060), (61, 58063), (65, 58084), (67, 58099), (68, 58120), (80, 58210), (85, 58258),

Gene: Nehemiah\_69 Start: 59025, Stop: 59666, Start Num: 37

Candidate Starts for Nehemiah\_69:

(Start: 37 @59025 has 12 MA's), (42, 59070), (52, 59148), (54, 59163), (55, 59175), (63, 59229), (64, 59235), (66, 59253), (68, 59277), (69, 59280), (72, 59307), (75, 59322), (78, 59361), (81, 59370), (83, 59388), (84, 59406), (88, 59496), (95, 59562),

Gene: Newman\_68 Start: 57663, Stop: 58361, Start Num: 32

Candidate Starts for Newman\_68:

(Start: 32 @57663 has 288 MA's), (44, 57753), (47, 57762), (51, 57804), (52, 57810), (54, 57825), (60, 57879), (61, 57882), (65, 57903), (67, 57918), (68, 57939), (80, 58029), (85, 58077),

Gene: NiaNia\_71 Start: 57371, Stop: 58066, Start Num: 32

Candidate Starts for NiaNia\_71:

(Start: 32 @57371 has 288 MA's), (44, 57461), (47, 57470), (48, 57476), (51, 57512), (52, 57518), (54, 57533), (60, 57587), (61, 57590), (65, 57611), (67, 57626), (68, 57647), (80, 57737), (85, 57785), (99, 57965),

Gene: Nicole21\_71 Start: 57628, Stop: 58323, Start Num: 32

Candidate Starts for Nicole21\_71:

(Start: 32 @57628 has 288 MA's), (44, 57718), (47, 57727), (48, 57733), (51, 57769), (52, 57775), (54, 57790), (60, 57844), (61, 57847), (65, 57868), (67, 57883), (68, 57904), (80, 57994), (85, 58042), (99, 58222),

Gene: Nigel\_65 Start: 58299, Stop: 58883, Start Num: 36

Candidate Starts for Nigel\_65:

(Start: 36 @58299 has 28 MA's), (Start: 37 @58305 has 12 MA's), (40, 58329), (44, 58365), (46, 58368), (51, 58416), (57, 58455), (61, 58494), (62, 58497), (68, 58551), (69, 58554), (83, 58662), (87, 58725),

Gene: Nova1\_70 Start: 57471, Stop: 58169, Start Num: 32

Candidate Starts for Nova1\_70:

(Start: 32 @57471 has 288 MA's), (44, 57561), (47, 57570), (48, 57576), (51, 57612), (52, 57618), (54, 57633), (60, 57687), (61, 57690), (65, 57711), (67, 57726), (68, 57747), (80, 57837), (85, 57885),

Gene: Numberten\_69 Start: 57592, Stop: 58299, Start Num: 32

Candidate Starts for Numberten\_69:

(Start: 32 @57592 has 288 MA's), (44, 57682), (47, 57691), (51, 57733), (52, 57739), (54, 57754), (60, 57808), (61, 57811), (65, 57832), (67, 57847), (68, 57868), (80, 57958),

Gene: Nyala\_69 Start: 57346, Stop: 58041, Start Num: 32

Candidate Starts for Nyala\_69:

(Start: 32 @57346 has 288 MA's), (44, 57436), (47, 57445), (48, 57451), (51, 57487), (52, 57493), (54, 57508), (60, 57562), (61, 57565), (65, 57586), (67, 57601), (68, 57622), (80, 57712), (85, 57760), (99, 57940),

Gene: OSmaximus\_70 Start: 58095, Stop: 58802, Start Num: 32

Candidate Starts for OSmaximus\_70:

(Start: 32 @58095 has 288 MA's), (44, 58185), (47, 58194), (48, 58200), (51, 58236), (52, 58242), (54, 58257), (60, 58311), (61, 58314), (65, 58335), (67, 58350), (68, 58371), (80, 58461), (85, 58509),

Gene: Olak\_70 Start: 57496, Stop: 58191, Start Num: 32

Candidate Starts for Olak\_70:

(Start: 32 @57496 has 288 MA's), (44, 57586), (47, 57595), (48, 57601), (51, 57637), (52, 57643), (54, 57658), (60, 57712), (61, 57715), (65, 57736), (67, 57751), (68, 57772), (80, 57862), (85, 57910), (99,

58090),

Gene: Oline\_69 Start: 57495, Stop: 58193, Start Num: 32

Candidate Starts for Oline\_69:

(Start: 32 @57495 has 288 MA's), (44, 57585), (47, 57594), (48, 57600), (51, 57636), (52, 57642), (54, 57657), (60, 57711), (61, 57714), (65, 57735), (67, 57750), (68, 57771), (80, 57861),

Gene: Olive\_68 Start: 57565, Stop: 58260, Start Num: 32

Candidate Starts for Olive\_68:

(Start: 32 @57565 has 288 MA's), (44, 57655), (47, 57664), (48, 57670), (51, 57706), (52, 57712), (54, 57727), (60, 57781), (61, 57784), (65, 57805), (67, 57820), (68, 57841), (80, 57931), (85, 57979), (99, 58159),

Gene: OliverWalter\_70 Start: 57815, Stop: 58510, Start Num: 32

Candidate Starts for OliverWalter\_70:

(Start: 32 @57815 has 288 MA's), (44, 57905), (47, 57914), (48, 57920), (51, 57956), (52, 57962), (54, 57977), (60, 58031), (61, 58034), (65, 58055), (67, 58070), (68, 58091), (80, 58181), (85, 58229), (99, 58409),

Gene: Omniscient\_71 Start: 58209, Stop: 58904, Start Num: 32

Candidate Starts for Omniscient\_71:

(Start: 32 @58209 has 288 MA's), (44, 58299), (47, 58308), (48, 58314), (51, 58350), (52, 58356), (54, 58371), (60, 58425), (61, 58428), (65, 58449), (67, 58464), (68, 58485), (80, 58575), (85, 58623), (99, 58803),

Gene: OneBrain\_73 Start: 57585, Stop: 58280, Start Num: 32

Candidate Starts for OneBrain\_73:

(Start: 32 @57585 has 288 MA's), (44, 57675), (47, 57684), (48, 57690), (51, 57726), (52, 57732), (54, 57747), (60, 57801), (61, 57804), (65, 57825), (67, 57840), (68, 57861), (80, 57951), (85, 57999), (99, 58179),

Gene: Oosterbaan\_70 Start: 57772, Stop: 58479, Start Num: 32

Candidate Starts for Oosterbaan\_70:

(Start: 32 @57772 has 288 MA's), (44, 57862), (47, 57871), (48, 57877), (51, 57913), (52, 57919), (54, 57934), (60, 57988), (61, 57991), (65, 58012), (67, 58027), (68, 58048), (80, 58138), (85, 58186),

Gene: Orfeu\_69 Start: 57855, Stop: 58550, Start Num: 32

Candidate Starts for Orfeu\_69:

(Start: 32 @57855 has 288 MA's), (44, 57945), (47, 57954), (48, 57960), (51, 57996), (52, 58002), (54, 58017), (60, 58071), (61, 58074), (65, 58095), (67, 58110), (68, 58131), (80, 58221), (85, 58269), (99, 58449),

Gene: Orion\_70 Start: 57434, Stop: 58141, Start Num: 32

Candidate Starts for Orion\_70:

(Start: 32 @57434 has 288 MA's), (44, 57524), (47, 57533), (48, 57539), (51, 57575), (52, 57581), (54, 57596), (60, 57650), (61, 57653), (65, 57674), (67, 57689), (68, 57710), (80, 57800), (85, 57848),

Gene: Orwigg\_69 Start: 57270, Stop: 57977, Start Num: 32

Candidate Starts for Orwigg\_69:

(Start: 32 @57270 has 288 MA's), (44, 57360), (47, 57369), (48, 57375), (51, 57411), (52, 57417), (54, 57432), (60, 57486), (61, 57489), (65, 57510), (67, 57525), (68, 57546), (80, 57636), (85, 57684),

Gene: PG1\_70 Start: 58005, Stop: 58712, Start Num: 32

Candidate Starts for PG1\_70:

(Start: 32 @58005 has 288 MA's), (44, 58095), (47, 58104), (48, 58110), (51, 58146), (52, 58152), (54, 58167), (60, 58221), (61, 58224), (65, 58245), (67, 58260), (68, 58281), (80, 58371), (85, 58419),

Gene: Pacifista\_69 Start: 57347, Stop: 58042, Start Num: 32

Candidate Starts for Pacifista\_69:

(Start: 32 @57347 has 288 MA's), (44, 57437), (47, 57446), (48, 57452), (51, 57488), (52, 57494), (54, 57509), (60, 57563), (61, 57566), (65, 57587), (67, 57602), (68, 57623), (80, 57713), (85, 57761), (99, 57941),

Gene: PallasAthena\_71 Start: 57324, Stop: 58019, Start Num: 32

Candidate Starts for PallasAthena\_71:

(Start: 32 @57324 has 288 MA's), (44, 57414), (47, 57423), (48, 57429), (51, 57465), (52, 57471), (54, 57486), (60, 57540), (61, 57543), (65, 57564), (67, 57579), (68, 57600), (80, 57690), (85, 57738),

Gene: PenguinLover67\_68 Start: 58680, Stop: 59375, Start Num: 31

Candidate Starts for PenguinLover67\_68:

(25, 58608), (Start: 31 @58680 has 4 MA's), (34, 58692), (38, 58713), (40, 58734), (44, 58770), (46, 58773), (47, 58779), (57, 58860), (62, 58902), (68, 58956), (69, 58959), (72, 58986), (75, 59001), (83, 59067),

Gene: Phamished\_71 Start: 57516, Stop: 58211, Start Num: 32

Candidate Starts for Phamished\_71:

(Start: 32 @57516 has 288 MA's), (44, 57606), (47, 57615), (48, 57621), (51, 57657), (52, 57663), (54, 57678), (60, 57732), (61, 57735), (65, 57756), (67, 57771), (68, 57792), (80, 57882), (85, 57930), (99, 58110),

Gene: Phareon\_68 Start: 57024, Stop: 57731, Start Num: 32

Candidate Starts for Phareon\_68:

(Start: 32 @57024 has 288 MA's), (44, 57114), (47, 57123), (48, 57129), (51, 57165), (52, 57171), (54, 57186), (60, 57240), (61, 57243), (65, 57264), (67, 57279), (68, 57300), (80, 57390), (85, 57438),

Gene: PhatCats2014\_71 Start: 58010, Stop: 58714, Start Num: 32

Candidate Starts for PhatCats2014\_71:

(Start: 32 @58010 has 288 MA's), (44, 58100), (47, 58109), (48, 58115), (51, 58151), (52, 58157), (54, 58172), (60, 58226), (61, 58229), (65, 58250), (67, 58265), (68, 58286), (80, 58376), (85, 58424), (99, 58604),

Gene: PhatLouie\_72 Start: 57855, Stop: 58562, Start Num: 32

Candidate Starts for PhatLouie\_72:

(Start: 32 @57855 has 288 MA's), (44, 57945), (47, 57954), (51, 57996), (52, 58002), (54, 58017), (60, 58071), (61, 58074), (65, 58095), (67, 58110), (68, 58131), (80, 58221), (85, 58269),

Gene: Phelemich\_67 Start: 59019, Stop: 59660, Start Num: 37

Candidate Starts for Phelemich\_67:

(Start: 37 @59019 has 12 MA's), (42, 59064), (52, 59142), (54, 59157), (55, 59169), (63, 59223), (64, 59229), (66, 59247), (68, 59271), (69, 59274), (72, 59301), (75, 59316), (78, 59355), (81, 59364), (83, 59382), (84, 59400), (88, 59490), (95, 59556),

Gene: PhenghisKhan\_70 Start: 57472, Stop: 58179, Start Num: 32

Candidate Starts for PhenghisKhan\_70:

(Start: 32 @57472 has 288 MA's), (44, 57562), (47, 57571), (48, 57577), (51, 57613), (52, 57619), (54, 57634), (60, 57688), (61, 57691), (65, 57712), (67, 57727), (68, 57748), (80, 57838), (85, 57886),

Gene: Pherdinand\_71 Start: 57759, Stop: 58457, Start Num: 32

Candidate Starts for Pherdinand\_71:

(Start: 32 @57759 has 288 MA's), (44, 57849), (47, 57858), (51, 57900), (52, 57906), (54, 57921), (60, 57975), (61, 57978), (65, 57999), (67, 58014), (68, 58035), (80, 58125), (85, 58173), (97, 58326),

Gene: Phergie\_70 Start: 57464, Stop: 58171, Start Num: 32

Candidate Starts for Phergie\_70:

(Start: 32 @57464 has 288 MA's), (44, 57554), (47, 57563), (48, 57569), (51, 57605), (52, 57611), (54, 57626), (60, 57680), (61, 57683), (65, 57704), (67, 57719), (68, 57740), (80, 57830), (85, 57878),

Gene: Phipps\_70 Start: 57557, Stop: 58264, Start Num: 32

Candidate Starts for Phipps\_70:

(Start: 32 @57557 has 288 MA's), (44, 57647), (47, 57656), (48, 57662), (51, 57698), (52, 57704), (54, 57719), (60, 57773), (61, 57776), (65, 57797), (67, 57812), (68, 57833), (80, 57923), (85, 57971),

Gene: Phleuron\_68 Start: 57300, Stop: 57998, Start Num: 32

Candidate Starts for Phleuron\_68:

(Start: 32 @57300 has 288 MA's), (44, 57390), (47, 57399), (48, 57405), (51, 57441), (52, 57447), (54, 57462), (60, 57516), (61, 57519), (65, 57540), (67, 57555), (68, 57576), (80, 57666), (85, 57714),

Gene: PhrankReynolds\_69 Start: 57469, Stop: 58176, Start Num: 32

Candidate Starts for PhrankReynolds\_69:

(Start: 32 @57469 has 288 MA's), (44, 57559), (47, 57568), (48, 57574), (51, 57610), (52, 57616), (54, 57631), (60, 57685), (61, 57688), (65, 57709), (67, 57724), (68, 57745), (80, 57835), (85, 57883),

Gene: PhrodoBaggins\_72 Start: 57863, Stop: 58570, Start Num: 32

Candidate Starts for PhrodoBaggins\_72:

(Start: 32 @57863 has 288 MA's), (44, 57953), (47, 57962), (48, 57968), (51, 58004), (52, 58010), (54, 58025), (60, 58079), (61, 58082), (65, 58103), (67, 58118), (68, 58139), (80, 58229), (85, 58277),

Gene: Phunky\_68 Start: 57369, Stop: 58064, Start Num: 32

Candidate Starts for Phunky\_68:

(Start: 32 @57369 has 288 MA's), (44, 57459), (47, 57468), (48, 57474), (51, 57510), (52, 57516), (54, 57531), (60, 57585), (61, 57588), (65, 57609), (67, 57624), (68, 57645), (80, 57735), (85, 57783), (99, 57963),

Gene: Piglet\_0071 Start: 57982, Stop: 58689, Start Num: 32

Candidate Starts for Piglet\_0071:

(Start: 32 @57982 has 288 MA's), (44, 58072), (47, 58081), (48, 58087), (51, 58123), (52, 58129), (54, 58144), (60, 58198), (61, 58201), (65, 58222), (67, 58237), (68, 58258), (80, 58348), (85, 58396),

Gene: PinheadLarry\_69 Start: 57631, Stop: 58338, Start Num: 32

Candidate Starts for PinheadLarry\_69:

(Start: 32 @57631 has 288 MA's), (44, 57721), (47, 57730), (48, 57736), (51, 57772), (52, 57778), (54, 57793), (60, 57847), (61, 57850), (65, 57871), (67, 57886), (68, 57907), (80, 57997), (85, 58045),

Gene: Pinkman\_70 Start: 57581, Stop: 58288, Start Num: 32

Candidate Starts for Pinkman\_70:

(Start: 32 @57581 has 288 MA's), (44, 57671), (47, 57680), (48, 57686), (51, 57722), (52, 57728), (54, 57743), (60, 57797), (61, 57800), (65, 57821), (67, 57836), (68, 57857), (80, 57947), (85, 57995),

Gene: Pipsqueak\_67 Start: 57310, Stop: 58017, Start Num: 32

Candidate Starts for Pipsqueak\_67:

(Start: 32 @57310 has 288 MA's), (44, 57400), (47, 57409), (48, 57415), (51, 57451), (52, 57457), (54, 57472), (60, 57526), (61, 57529), (65, 57550), (67, 57565), (68, 57586), (80, 57676), (85, 57724),

Gene: Placalicious\_70 Start: 58351, Stop: 59055, Start Num: 32

Candidate Starts for Placalicious\_70:

(Start: 32 @58351 has 288 MA's), (44, 58441), (47, 58450), (48, 58456), (51, 58492), (52, 58498), (54, 58513), (60, 58567), (61, 58570), (65, 58591), (67, 58606), (68, 58627), (80, 58717), (85, 58765), (99, 58945),

Gene: Plata\_69 Start: 57575, Stop: 58273, Start Num: 32

Candidate Starts for Plata\_69:

(Start: 32 @57575 has 288 MA's), (44, 57665), (47, 57674), (48, 57680), (51, 57716), (52, 57722), (54, 57737), (60, 57791), (61, 57794), (65, 57815), (67, 57830), (68, 57851), (80, 57941), (85, 57989),

Gene: Plmatters\_68 Start: 57322, Stop: 58017, Start Num: 32

Candidate Starts for Plmatters\_68:

(Start: 32 @57322 has 288 MA's), (44, 57412), (47, 57421), (48, 57427), (51, 57463), (52, 57469), (54, 57484), (60, 57538), (61, 57541), (65, 57562), (67, 57577), (68, 57598), (80, 57688), (85, 57736), (99, 57916),

Gene: Podrick\_69 Start: 57391, Stop: 58098, Start Num: 32

Candidate Starts for Podrick\_69:

(Start: 32 @57391 has 288 MA's), (44, 57481), (47, 57490), (48, 57496), (51, 57532), (52, 57538), (54, 57553), (60, 57607), (61, 57610), (65, 57631), (67, 57646), (68, 57667), (80, 57757), (85, 57805),

Gene: Pops\_68 Start: 57338, Stop: 58036, Start Num: 32

Candidate Starts for Pops\_68:

(Start: 32 @57338 has 288 MA's), (44, 57428), (47, 57437), (48, 57443), (51, 57479), (52, 57485), (54, 57500), (60, 57554), (61, 57557), (65, 57578), (67, 57593), (68, 57614), (80, 57704), (85, 57752),

Gene: Poster\_65 Start: 58480, Stop: 59067, Start Num: 36

Candidate Starts for Poster\_65:

(1, 58075), (4, 58117), (5, 58201), (9, 58219), (12, 58249), (19, 58345), (20, 58354), (Start: 36 @58480 has 28 MA's), (44, 58546), (46, 58549), (49, 58585), (57, 58636), (61, 58675), (62, 58678), (68, 58732), (69, 58735), (83, 58843), (87, 58906), (94, 59008),

Gene: Potter\_67 Start: 57316, Stop: 58023, Start Num: 32

Candidate Starts for Potter\_67:

(Start: 32 @57316 has 288 MA's), (44, 57406), (47, 57415), (48, 57421), (51, 57457), (52, 57463), (54, 57478), (60, 57532), (61, 57535), (65, 57556), (67, 57571), (68, 57592), (80, 57682), (85, 57730),

Gene: Prickles\_71 Start: 57847, Stop: 58542, Start Num: 32

Candidate Starts for Prickles\_71:

(Start: 32 @57847 has 288 MA's), (44, 57937), (47, 57946), (51, 57988), (52, 57994), (54, 58009), (60, 58063), (61, 58066), (65, 58087), (67, 58102), (68, 58123), (80, 58213), (85, 58261), (99, 58441),

Gene: Prince\_66 Start: 59594, Stop: 60181, Start Num: 36

Candidate Starts for Prince\_66:

(19, 59459), (20, 59468), (Start: 36 @59594 has 28 MA's), (40, 59624), (44, 59660), (46, 59663), (49, 59699), (57, 59750), (61, 59789), (62, 59792), (68, 59846), (69, 59849), (74, 59882), (75, 59891), (83, 59957), (87, 60020),

Gene: ProfessorX\_68 Start: 57363, Stop: 58058, Start Num: 32

Candidate Starts for ProfessorX\_68:

(Start: 32 @57363 has 288 MA's), (44, 57453), (47, 57462), (48, 57468), (51, 57504), (52, 57510), (54, 57525), (60, 57579), (61, 57582), (65, 57603), (67, 57618), (68, 57639), (80, 57729), (85, 57777), (99, 57957),

Gene: Puhltonio\_68 Start: 57592, Stop: 58287, Start Num: 32

Candidate Starts for Puhltonio\_68:

(Start: 32 @57592 has 288 MA's), (44, 57682), (47, 57691), (48, 57697), (51, 57733), (52, 57739), (54, 57754), (60, 57808), (61, 57811), (65, 57832), (67, 57847), (68, 57868), (80, 57958), (85, 58006), (99, 58186),

Gene: QueenBeane\_70 Start: 57635, Stop: 58330, Start Num: 32

Candidate Starts for QueenBeane\_70:

(Start: 32 @57635 has 288 MA's), (44, 57725), (47, 57734), (48, 57740), (51, 57776), (52, 57782), (54, 57797), (60, 57851), (61, 57854), (65, 57875), (67, 57890), (68, 57911), (80, 58001), (85, 58049), (99, 58229),

Gene: QueenPie\_62 Start: 58582, Stop: 59169, Start Num: 36

Candidate Starts for QueenPie\_62:

(Start: 36 @58582 has 28 MA's), (40, 58612), (44, 58648), (46, 58651), (49, 58687), (57, 58738), (58, 58741), (61, 58777), (62, 58780), (68, 58834), (69, 58837), (83, 58945), (86, 58993), (87, 59008), (94, 59110),

Gene: Quesadilla\_69 Start: 58834, Stop: 59553, Start Num: 31

Candidate Starts for Quesadilla\_69:

(Start: 31 @58834 has 4 MA's), (34, 58846), (39, 58879), (40, 58888), (41, 58891), (43, 58906), (44, 58924), (46, 58927), (57, 59014), (61, 59053), (62, 59056), (68, 59110), (69, 59113),

Gene: Quisquilliae\_72 Start: 57647, Stop: 58354, Start Num: 32

Candidate Starts for Quisquilliae\_72:

(Start: 32 @57647 has 288 MA's), (44, 57737), (47, 57746), (51, 57788), (52, 57794), (54, 57809), (60, 57863), (61, 57866), (65, 57887), (67, 57902), (68, 57923), (80, 58013),

Gene: RawrgerThat\_68 Start: 59487, Stop: 60074, Start Num: 36

Candidate Starts for RawrgerThat\_68:

(Start: 36 @59487 has 28 MA's), (40, 59517), (44, 59553), (46, 59556), (49, 59592), (57, 59643), (61, 59682), (62, 59685), (68, 59739), (69, 59742), (75, 59784), (83, 59850), (87, 59913), (94, 60015),

Gene: Reccee\_71 Start: 59243, Stop: 59887, Start Num: 37

Candidate Starts for Reccee\_71:

(23, 59129), (Start: 37 @59243 has 12 MA's), (52, 59366), (54, 59381), (55, 59393), (63, 59447), (64, 59453), (66, 59471), (68, 59495), (69, 59498), (77, 59567), (81, 59588), (83, 59606), (88, 59714),

Gene: RedMaple\_70 Start: 58074, Stop: 58781, Start Num: 32

Candidate Starts for RedMaple\_70:

(Start: 32 @58074 has 288 MA's), (44, 58164), (47, 58173), (48, 58179), (51, 58215), (52, 58221), (54, 58236), (60, 58290), (61, 58293), (65, 58314), (67, 58329), (68, 58350), (80, 58440), (85, 58488),

Gene: RedRaider89\_69 Start: 57777, Stop: 58481, Start Num: 32

Candidate Starts for RedRaider89\_69:

(Start: 32 @57777 has 288 MA's), (44, 57867), (47, 57876), (48, 57882), (51, 57918), (52, 57924), (54, 57939), (60, 57993), (61, 57996), (65, 58017), (67, 58032), (68, 58053), (80, 58143), (85, 58191), (99,

58371),

Gene: Renkei\_66 Start: 58406, Stop: 58993, Start Num: 36

Candidate Starts for Renkei\_66:

(1, 58001), (5, 58127), (9, 58145), (12, 58175), (19, 58271), (20, 58280), (Start: 36 @58406 has 28 MA's), (44, 58472), (46, 58475), (49, 58511), (57, 58562), (61, 58601), (62, 58604), (68, 58658), (69, 58661), (83, 58769), (87, 58832), (94, 58934),

Gene: Reprobate\_69 Start: 59024, Stop: 59665, Start Num: 37

Candidate Starts for Reprobate\_69:

(Start: 37 @59024 has 12 MA's), (42, 59069), (52, 59147), (54, 59162), (55, 59174), (63, 59228), (64, 59234), (66, 59252), (68, 59276), (69, 59279), (72, 59306), (75, 59321), (78, 59360), (81, 59369), (83, 59387), (84, 59405), (88, 59495), (95, 59561),

Gene: Rich\_70 Start: 60248, Stop: 60886, Start Num: 37

Candidate Starts for Rich\_70:

(Start: 32 @60227 has 288 MA's), (Start: 37 @60248 has 12 MA's), (40, 60278), (52, 60371), (63, 60452), (64, 60458), (66, 60476), (68, 60500), (69, 60503), (77, 60572), (78, 60584), (81, 60593), (83, 60611), (88, 60719), (95, 60785),

Gene: Ricotta\_70 Start: 57329, Stop: 58024, Start Num: 32

Candidate Starts for Ricotta\_70:

(Start: 32 @57329 has 288 MA's), (44, 57419), (47, 57428), (48, 57434), (51, 57470), (52, 57476), (54, 57491), (60, 57545), (61, 57548), (65, 57569), (67, 57584), (68, 57605), (80, 57695), (85, 57743), (99, 57923),

Gene: Riggan\_71 Start: 57658, Stop: 58353, Start Num: 32

Candidate Starts for Riggan\_71:

(Start: 32 @57658 has 288 MA's), (44, 57748), (47, 57757), (48, 57763), (51, 57799), (52, 57805), (54, 57820), (60, 57874), (61, 57877), (65, 57898), (67, 57913), (68, 57934), (80, 58024), (85, 58072), (99, 58252),

Gene: Rimu\_70 Start: 57796, Stop: 58503, Start Num: 32

Candidate Starts for Rimu\_70:

(Start: 32 @57796 has 288 MA's), (44, 57886), (47, 57895), (48, 57901), (51, 57937), (52, 57943), (54, 57958), (60, 58012), (61, 58015), (65, 58036), (67, 58051), (68, 58072), (80, 58162),

Gene: Rinkes\_67 Start: 58796, Stop: 59521, Start Num: 30

Candidate Starts for Rinkes\_67:

(Start: 30 @58796 has 1 MA's), (34, 58811), (44, 58898), (46, 58901), (51, 58949), (52, 58955), (57, 58988), (58, 58991), (68, 59084), (69, 59087), (81, 59177), (82, 59186), (93, 59345), (98, 59372),

Gene: Rita130\_70 Start: 59056, Stop: 59703, Start Num: 37

Candidate Starts for Rita130\_70:

(23, 58942), (Start: 37 @59056 has 12 MA's), (52, 59179), (54, 59194), (55, 59206), (63, 59260), (64, 59266), (66, 59284), (68, 59308), (69, 59311), (77, 59380), (78, 59392), (81, 59401), (83, 59419), (88, 59527),

Gene: Riverton\_69 Start: 57588, Stop: 58295, Start Num: 32

Candidate Starts for Riverton\_69:

(Start: 32 @57588 has 288 MA's), (44, 57678), (47, 57687), (48, 57693), (51, 57729), (52, 57735), (54, 57750), (60, 57804), (61, 57807), (65, 57828), (67, 57843), (68, 57864), (80, 57954), (85, 58002),

Gene: Robyn\_71 Start: 57931, Stop: 58629, Start Num: 32

Candidate Starts for Robyn\_71:

(Start: 32 @57931 has 288 MA's), (44, 58021), (47, 58030), (51, 58072), (52, 58078), (54, 58093), (60, 58147), (61, 58150), (65, 58171), (67, 58186), (68, 58207), (80, 58297), (85, 58345),

Gene: Roliet\_67 Start: 56687, Stop: 57394, Start Num: 32

Candidate Starts for Roliet\_67:

(Start: 32 @56687 has 288 MA's), (44, 56777), (47, 56786), (48, 56792), (51, 56828), (52, 56834), (54, 56849), (60, 56903), (61, 56906), (65, 56927), (67, 56942), (68, 56963), (80, 57053), (85, 57101), (99, 57281),

Gene: Roscoe\_70 Start: 57775, Stop: 58482, Start Num: 32

Candidate Starts for Roscoe\_70:

(Start: 32 @57775 has 288 MA's), (44, 57865), (47, 57874), (48, 57880), (51, 57916), (52, 57922), (54, 57937), (60, 57991), (61, 57994), (65, 58015), (67, 58030), (68, 58051), (80, 58141), (85, 58189),

Gene: Roy17\_68 Start: 57058, Stop: 57753, Start Num: 32

Candidate Starts for Roy17\_68:

(Start: 32 @57058 has 288 MA's), (44, 57148), (47, 57157), (48, 57163), (51, 57199), (52, 57205), (54, 57220), (60, 57274), (61, 57277), (65, 57298), (67, 57313), (68, 57334), (80, 57424), (85, 57472), (99, 57652),

Gene: SDcharge11\_69 Start: 56829, Stop: 57527, Start Num: 32

Candidate Starts for SDcharge11\_69:

(Start: 32 @56829 has 288 MA's), (44, 56919), (47, 56928), (51, 56970), (52, 56976), (54, 56991), (60, 57045), (61, 57048), (65, 57069), (67, 57084), (68, 57105), (80, 57195), (85, 57243),

Gene: Saguaro\_66 Start: 58049, Stop: 58765, Start Num: 36

Candidate Starts for Saguaro\_66:

(Start: 36 @58049 has 28 MA's), (42, 58094), (44, 58115), (46, 58118), (52, 58172), (53, 58178), (54, 58187), (56, 58202), (61, 58244), (68, 58301), (69, 58304), (80, 58391), (87, 58475), (92, 58559),

Gene: SallyH\_72 Start: 57598, Stop: 58299, Start Num: 32

Candidate Starts for SallyH\_72:

(Start: 32 @57598 has 288 MA's), (44, 57688), (47, 57697), (51, 57739), (52, 57745), (54, 57760), (60, 57814), (61, 57817), (65, 57838), (67, 57853), (68, 57874), (80, 57964),

Gene: Samaymay\_70 Start: 57635, Stop: 58330, Start Num: 32

Candidate Starts for Samaymay\_70:

(Start: 32 @57635 has 288 MA's), (44, 57725), (47, 57734), (48, 57740), (51, 57776), (52, 57782), (54, 57797), (60, 57851), (61, 57854), (65, 57875), (67, 57890), (68, 57911), (80, 58001), (85, 58049), (99, 58229),

Gene: SassyCat97\_68 Start: 57306, Stop: 58013, Start Num: 32

Candidate Starts for SassyCat97\_68:

(Start: 32 @57306 has 288 MA's), (44, 57396), (47, 57405), (48, 57411), (51, 57447), (52, 57453), (54, 57468), (60, 57522), (61, 57525), (65, 57546), (67, 57561), (68, 57582), (80, 57672), (85, 57720),

Gene: Schadenfreude\_70 Start: 57233, Stop: 57931, Start Num: 32

Candidate Starts for Schadenfreude\_70:

(Start: 32 @57233 has 288 MA's), (44, 57323), (47, 57332), (51, 57374), (52, 57380), (54, 57395), (60, 57449), (61, 57452), (65, 57473), (67, 57488), (68, 57509), (80, 57599), (85, 57647),

Gene: Schueller\_68 Start: 57590, Stop: 58285, Start Num: 32

Candidate Starts for Schueller\_68:

(Start: 32 @57590 has 288 MA's), (44, 57680), (47, 57689), (48, 57695), (51, 57731), (52, 57737), (54, 57752), (60, 57806), (61, 57809), (65, 57830), (67, 57845), (68, 57866), (80, 57956), (85, 58004),

Gene: Scoot17C\_71 Start: 57436, Stop: 58143, Start Num: 32

Candidate Starts for Scoot17C\_71:

(Start: 32 @57436 has 288 MA's), (44, 57526), (47, 57535), (48, 57541), (51, 57577), (52, 57583), (54, 57598), (60, 57652), (61, 57655), (65, 57676), (67, 57691), (68, 57712), (80, 57802), (85, 57850),

Gene: Scrick\_69 Start: 57318, Stop: 58025, Start Num: 32

Candidate Starts for Scrick\_69:

(Start: 32 @57318 has 288 MA's), (44, 57408), (47, 57417), (48, 57423), (51, 57459), (52, 57465), (54, 57480), (60, 57534), (61, 57537), (65, 57558), (67, 57573), (68, 57594), (80, 57684),

Gene: Selr12\_71 Start: 57375, Stop: 58070, Start Num: 32

Candidate Starts for Selr12\_71:

(Start: 32 @57375 has 288 MA's), (44, 57465), (47, 57474), (48, 57480), (51, 57516), (52, 57522), (54, 57537), (60, 57591), (61, 57594), (65, 57615), (67, 57630), (68, 57651), (80, 57741), (85, 57789), (99, 57969),

Gene: Serendipitous\_69 Start: 58599, Stop: 59252, Start Num: 37

Candidate Starts for Serendipitous\_69:

(8, 58341), (23, 58479), (Start: 37 @58599 has 12 MA's), (52, 58722), (54, 58737), (63, 58803), (64, 58809), (66, 58827), (68, 58851), (69, 58854), (70, 58866), (77, 58923), (78, 58935), (81, 58944), (83, 58962), (88, 59070),

Gene: Serendipity\_70 Start: 57791, Stop: 58498, Start Num: 32

Candidate Starts for Serendipity\_70:

(Start: 32 @57791 has 288 MA's), (44, 57881), (47, 57890), (51, 57932), (52, 57938), (54, 57953), (60, 58007), (61, 58010), (65, 58031), (67, 58046), (68, 58067), (80, 58157),

Gene: Serpentine\_0071 Start: 57874, Stop: 58581, Start Num: 32

Candidate Starts for Serpentine\_0071:

(Start: 32 @57874 has 288 MA's), (44, 57964), (47, 57973), (48, 57979), (51, 58015), (52, 58021), (54, 58036), (60, 58090), (61, 58093), (65, 58114), (67, 58129), (68, 58150), (80, 58240), (85, 58288),

Gene: ShadowBud\_71 Start: 57644, Stop: 58351, Start Num: 32

Candidate Starts for ShadowBud\_71:

(Start: 32 @57644 has 288 MA's), (44, 57734), (47, 57743), (51, 57785), (52, 57791), (54, 57806), (60, 57860), (61, 57863), (65, 57884), (67, 57899), (68, 57920), (80, 58010),

Gene: Sheila\_66 Start: 56718, Stop: 57425, Start Num: 32

Candidate Starts for Sheila\_66:

(Start: 32 @56718 has 288 MA's), (44, 56808), (47, 56817), (51, 56859), (52, 56865), (54, 56880), (60, 56934), (61, 56937), (65, 56958), (67, 56973), (68, 56994), (80, 57084), (85, 57132), (99, 57312),

Gene: Shenyu\_71 Start: 59626, Stop: 60279, Start Num: 37

Candidate Starts for Shenyu\_71:

(8, 59365), (23, 59512), (Start: 37 @59626 has 12 MA's), (52, 59749), (54, 59764), (64, 59836), (66, 59854), (68, 59878), (69, 59881), (70, 59893), (77, 59950), (78, 59962), (81, 59971), (83, 59989), (88, 60097),

Gene: ShiVal\_68 Start: 57343, Stop: 58050, Start Num: 32

Candidate Starts for ShiVal\_68:

(Start: 32 @57343 has 288 MA's), (44, 57433), (47, 57442), (48, 57448), (51, 57484), (52, 57490), (54, 57505), (60, 57559), (61, 57562), (65, 57583), (67, 57598), (68, 57619), (80, 57709), (85, 57757), (97, 57910),

Gene: Sigman\_70 Start: 57329, Stop: 58024, Start Num: 32

Candidate Starts for Sigman\_70:

(Start: 32 @57329 has 288 MA's), (44, 57419), (47, 57428), (48, 57434), (51, 57470), (52, 57476), (54, 57491), (60, 57545), (61, 57548), (65, 57569), (67, 57584), (68, 57605), (80, 57695), (85, 57743), (99, 57923),

Gene: SilverBell\_71 Start: 57754, Stop: 58461, Start Num: 32

Candidate Starts for SilverBell\_71:

(Start: 32 @57754 has 288 MA's), (44, 57844), (47, 57853), (48, 57859), (51, 57895), (52, 57901), (54, 57916), (60, 57970), (61, 57973), (65, 57994), (67, 58009), (68, 58030), (80, 58120), (85, 58168),

Gene: Simielle\_70 Start: 57300, Stop: 57995, Start Num: 32

Candidate Starts for Simielle\_70:

(Start: 32 @57300 has 288 MA's), (44, 57390), (47, 57399), (48, 57405), (51, 57441), (52, 57447), (54, 57462), (60, 57516), (61, 57519), (65, 57540), (67, 57555), (68, 57576), (80, 57666), (85, 57714), (99, 57894),

Gene: SirBeauregard\_71 Start: 57866, Stop: 58570, Start Num: 32

Candidate Starts for SirBeauregard\_71:

(Start: 32 @57866 has 288 MA's), (44, 57956), (47, 57965), (51, 58007), (52, 58013), (54, 58028), (60, 58082), (61, 58085), (65, 58106), (67, 58121), (68, 58142), (80, 58232), (85, 58280), (99, 58460),

Gene: SirJeffery\_70 Start: 59195, Stop: 59848, Start Num: 37

Candidate Starts for SirJeffery\_70:

(23, 59081), (Start: 37 @59195 has 12 MA's), (52, 59318), (54, 59333), (55, 59345), (63, 59399), (64, 59405), (66, 59423), (68, 59447), (69, 59450), (77, 59519), (78, 59531), (81, 59540), (83, 59558), (88, 59666),

Gene: Skippy\_72 Start: 57727, Stop: 58422, Start Num: 32

Candidate Starts for Skippy\_72:

(Start: 32 @57727 has 288 MA's), (44, 57817), (47, 57826), (48, 57832), (51, 57868), (52, 57874), (54, 57889), (60, 57943), (61, 57946), (65, 57967), (67, 57982), (68, 58003), (80, 58093), (85, 58141),

Gene: Slatt\_70 Start: 57602, Stop: 58309, Start Num: 32

Candidate Starts for Slatt\_70:

(Start: 32 @57602 has 288 MA's), (44, 57692), (47, 57701), (48, 57707), (51, 57743), (52, 57749), (54, 57764), (60, 57818), (61, 57821), (65, 57842), (67, 57857), (68, 57878), (80, 57968),

Gene: Soile\_71 Start: 57849, Stop: 58547, Start Num: 32

Candidate Starts for Soile\_71:

(Start: 32 @57849 has 288 MA's), (44, 57939), (47, 57948), (48, 57954), (51, 57990), (52, 57996), (54, 58011), (60, 58065), (61, 58068), (65, 58089), (67, 58104), (68, 58125), (80, 58215), (85, 58263),

Gene: Solosis\_68 Start: 57301, Stop: 58008, Start Num: 32

Candidate Starts for Solosis\_68:

(Start: 32 @57301 has 288 MA's), (44, 57391), (47, 57400), (51, 57442), (52, 57448), (54, 57463), (60, 57517), (61, 57520), (65, 57541), (67, 57556), (68, 57577), (80, 57667), (85, 57715),

Gene: Sophia\_68 Start: 57294, Stop: 58001, Start Num: 32

Candidate Starts for Sophia\_68:

(Start: 32 @57294 has 288 MA's), (44, 57384), (47, 57393), (48, 57399), (51, 57435), (52, 57441), (54, 57456), (60, 57510), (61, 57513), (65, 57534), (67, 57549), (68, 57570), (80, 57660), (85, 57708),

Gene: Soto\_67 Start: 56861, Stop: 57556, Start Num: 32

Candidate Starts for Soto\_67:

(Start: 32 @56861 has 288 MA's), (44, 56951), (47, 56960), (51, 57002), (52, 57008), (54, 57023), (60, 57077), (61, 57080), (65, 57101), (67, 57116), (68, 57137), (80, 57227), (85, 57275), (99, 57455),

Gene: Spartan300\_69 Start: 57570, Stop: 58265, Start Num: 32

Candidate Starts for Spartan300\_69:

(Start: 32 @57570 has 288 MA's), (44, 57660), (47, 57669), (48, 57675), (51, 57711), (52, 57717), (54, 57732), (60, 57786), (61, 57789), (65, 57810), (67, 57825), (68, 57846), (80, 57936), (85, 57984), (99, 58164),

Gene: Squid\_69 Start: 57594, Stop: 58292, Start Num: 32

Candidate Starts for Squid\_69:

(Start: 32 @57594 has 288 MA's), (44, 57684), (47, 57693), (51, 57735), (52, 57741), (54, 57756), (60, 57810), (61, 57813), (65, 57834), (67, 57849), (68, 57870), (80, 57960),

Gene: Squiggle\_69 Start: 57313, Stop: 58020, Start Num: 32

Candidate Starts for Squiggle\_69:

(Start: 32 @57313 has 288 MA's), (44, 57403), (47, 57412), (48, 57418), (51, 57454), (52, 57460), (54, 57475), (60, 57529), (61, 57532), (65, 57553), (67, 57568), (68, 57589), (80, 57679), (85, 57727),

Gene: Stinger\_67 Start: 58422, Stop: 59009, Start Num: 36

Candidate Starts for Stinger\_67:

(1, 58029), (5, 58155), (10, 58185), (20, 58296), (Start: 36 @58422 has 28 MA's), (Start: 37 @58428 has 12 MA's), (40, 58452), (44, 58488), (46, 58491), (51, 58539), (57, 58578), (58, 58581), (61, 58617), (62, 58620), (68, 58674), (69, 58677), (83, 58785), (87, 58848), (94, 58950),

Gene: StinkyVeggy\_70 Start: 59079, Stop: 59732, Start Num: 37

Candidate Starts for StinkyVeggy\_70:

(8, 58800), (23, 58959), (Start: 37 @59079 has 12 MA's), (47, 59154), (52, 59202), (54, 59217), (64, 59289), (66, 59307), (68, 59331), (69, 59334), (70, 59346), (77, 59403), (78, 59415), (81, 59424), (83, 59442), (88, 59550), (95, 59616),

Gene: Struggle\_70 Start: 57414, Stop: 58112, Start Num: 32

Candidate Starts for Struggle\_70:

(Start: 32 @57414 has 288 MA's), (44, 57504), (47, 57513), (48, 57519), (51, 57555), (52, 57561), (54, 57576), (60, 57630), (61, 57633), (65, 57654), (67, 57669), (68, 57690), (80, 57780), (85, 57828),

Gene: Suffolk\_68 Start: 57143, Stop: 57841, Start Num: 32

Candidate Starts for Suffolk\_68:

(Start: 32 @57143 has 288 MA's), (44, 57233), (47, 57242), (51, 57284), (52, 57290), (54, 57305), (60, 57359), (61, 57362), (65, 57383), (67, 57398), (68, 57419), (80, 57509), (85, 57557),

Gene: Suigeneris\_72 Start: 59346, Stop: 59990, Start Num: 37

Candidate Starts for Suigeneris\_72:

(23, 59232), (Start: 37 @59346 has 12 MA's), (52, 59469), (54, 59484), (55, 59496), (63, 59550), (64, 59556), (66, 59574), (68, 59598), (69, 59601), (77, 59670), (78, 59682), (81, 59691), (83, 59709), (88,

59817),

Gene: Surely\_70 Start: 57884, Stop: 58582, Start Num: 32

Candidate Starts for Surely\_70:

(Start: 32 @57884 has 288 MA's), (44, 57974), (47, 57983), (48, 57989), (51, 58025), (52, 58031), (54, 58046), (60, 58100), (61, 58103), (65, 58124), (67, 58139), (68, 58160), (80, 58250), (85, 58298),

Gene: Swiphy\_72 Start: 57855, Stop: 58562, Start Num: 32

Candidate Starts for Swiphy\_72:

(Start: 32 @57855 has 288 MA's), (44, 57945), (47, 57954), (51, 57996), (52, 58002), (54, 58017), (60, 58071), (61, 58074), (65, 58095), (67, 58110), (68, 58131), (80, 58221), (85, 58269),

Gene: Swish\_71 Start: 57744, Stop: 58445, Start Num: 32

Candidate Starts for Swish\_71:

(Start: 32 @57744 has 288 MA's), (44, 57834), (47, 57843), (51, 57885), (52, 57891), (54, 57906), (60, 57960), (61, 57963), (65, 57984), (67, 57999), (68, 58020), (80, 58110),

Gene: TallGrassMM\_69 Start: 57384, Stop: 58079, Start Num: 32

Candidate Starts for TallGrassMM\_69:

(Start: 32 @57384 has 288 MA's), (44, 57474), (47, 57483), (48, 57489), (51, 57525), (52, 57531), (54, 57546), (60, 57600), (61, 57603), (65, 57624), (67, 57639), (68, 57660), (80, 57750), (85, 57798),

Gene: Taraxa\_70 Start: 57213, Stop: 57911, Start Num: 32

Candidate Starts for Taraxa\_70:

(Start: 32 @57213 has 288 MA's), (44, 57303), (47, 57312), (48, 57318), (51, 57354), (52, 57360), (54, 57375), (60, 57429), (61, 57432), (65, 57453), (67, 57468), (68, 57489), (80, 57579), (85, 57627),

Gene: Telesworld\_68 Start: 57459, Stop: 58154, Start Num: 32

Candidate Starts for Telesworld\_68:

(Start: 32 @57459 has 288 MA's), (44, 57549), (47, 57558), (48, 57564), (51, 57600), (52, 57606), (54, 57621), (60, 57675), (61, 57678), (65, 57699), (67, 57714), (68, 57735), (80, 57825), (85, 57873), (99, 58053),

Gene: Thonko\_73 Start: 57522, Stop: 58262, Start Num: 35

Candidate Starts for Thonko\_73:

(14, 57327), (21, 57402), (Start: 35 @57522 has 2 MA's), (42, 57585), (44, 57606), (45, 57609), (50, 57654), (54, 57678), (59, 57717), (68, 57792), (82, 57894),

Gene: Thora\_69 Start: 57824, Stop: 58531, Start Num: 32

Candidate Starts for Thora\_69:

(Start: 32 @57824 has 288 MA's), (44, 57914), (47, 57923), (48, 57929), (51, 57965), (52, 57971), (54, 57986), (60, 58040), (61, 58043), (65, 58064), (67, 58079), (68, 58100), (80, 58190), (85, 58238),

Gene: ThreeOh3D2\_72 Start: 58001, Stop: 58708, Start Num: 32

Candidate Starts for ThreeOh3D2\_72:

(Start: 32 @58001 has 288 MA's), (44, 58091), (47, 58100), (48, 58106), (51, 58142), (52, 58148), (54, 58163), (60, 58217), (61, 58220), (65, 58241), (67, 58256), (68, 58277), (80, 58367), (85, 58415),

Gene: Thunderbird\_70 Start: 57567, Stop: 58274, Start Num: 32

Candidate Starts for Thunderbird\_70:

(Start: 32 @57567 has 288 MA's), (44, 57657), (47, 57666), (51, 57708), (52, 57714), (54, 57729), (60, 57783), (61, 57786), (65, 57807), (67, 57822), (68, 57843), (80, 57933), (85, 57981),

Gene: Timmi\_69 Start: 57341, Stop: 58048, Start Num: 32

Candidate Starts for Timmi\_69:

(Start: 32 @57341 has 288 MA's), (44, 57431), (47, 57440), (51, 57482), (52, 57488), (54, 57503), (60, 57557), (61, 57560), (65, 57581), (67, 57596), (68, 57617), (80, 57707), (85, 57755),

Gene: TomBombadil\_70 Start: 57868, Stop: 58575, Start Num: 32

Candidate Starts for TomBombadil\_70:

(Start: 32 @57868 has 288 MA's), (44, 57958), (47, 57967), (48, 57973), (51, 58009), (52, 58015), (54, 58030), (60, 58084), (61, 58087), (65, 58108), (67, 58123), (68, 58144), (80, 58234), (85, 58282),

Gene: Tomlarah\_71 Start: 58194, Stop: 58889, Start Num: 32

Candidate Starts for Tomlarah\_71:

(Start: 32 @58194 has 288 MA's), (44, 58284), (47, 58293), (48, 58299), (51, 58335), (52, 58341), (54, 58356), (60, 58410), (61, 58413), (65, 58434), (67, 58449), (68, 58470), (80, 58560), (85, 58608), (99, 58788),

Gene: Toni\_70 Start: 57786, Stop: 58481, Start Num: 32

Candidate Starts for Toni\_70:

(Start: 32 @57786 has 288 MA's), (44, 57876), (47, 57885), (48, 57891), (51, 57927), (52, 57933), (54, 57948), (60, 58002), (61, 58005), (65, 58026), (67, 58041), (68, 58062), (80, 58152), (99, 58380),

Gene: TooFast2Furius\_69 Start: 57561, Stop: 58268, Start Num: 32

Candidate Starts for TooFast2Furius\_69:

(Start: 32 @57561 has 288 MA's), (44, 57651), (47, 57660), (51, 57702), (52, 57708), (54, 57723), (60, 57777), (61, 57780), (65, 57801), (67, 57816), (68, 57837), (80, 57927), (85, 57975),

Gene: Tooj\_68 Start: 57011, Stop: 57709, Start Num: 32

Candidate Starts for Tooj\_68:

(Start: 32 @57011 has 288 MA's), (44, 57101), (47, 57110), (51, 57152), (52, 57158), (54, 57173), (60, 57227), (61, 57230), (65, 57251), (67, 57266), (68, 57287), (80, 57377), (85, 57425),

Gene: Triad\_71 Start: 57220, Stop: 57918, Start Num: 32

Candidate Starts for Triad\_71:

(Start: 32 @57220 has 288 MA's), (44, 57310), (47, 57319), (51, 57361), (52, 57367), (54, 57382), (60, 57436), (61, 57439), (65, 57460), (67, 57475), (68, 57496), (80, 57586), (85, 57634),

Gene: True\_68 Start: 57320, Stop: 58015, Start Num: 32

Candidate Starts for True\_68:

(Start: 32 @57320 has 288 MA's), (44, 57410), (47, 57419), (48, 57425), (51, 57461), (52, 57467), (54, 57482), (60, 57536), (61, 57539), (65, 57560), (67, 57575), (68, 57596), (80, 57686), (85, 57734), (99, 57914),

Gene: Trypo\_71 Start: 58035, Stop: 58742, Start Num: 32

Candidate Starts for Trypo\_71:

(Start: 32 @58035 has 288 MA's), (44, 58125), (47, 58134), (48, 58140), (51, 58176), (52, 58182), (54, 58197), (60, 58251), (61, 58254), (65, 58275), (67, 58290), (68, 58311), (80, 58401), (85, 58449),

Gene: TyrionL\_70 Start: 57403, Stop: 58107, Start Num: 32

Candidate Starts for TyrionL\_70:

(Start: 32 @57403 has 288 MA's), (44, 57493), (47, 57502), (51, 57544), (52, 57550), (54, 57565), (60, 57619), (61, 57622), (65, 57643), (67, 57658), (68, 57679), (80, 57769), (85, 57817), (99, 57997),

Gene: UAch1\_71 Start: 57725, Stop: 58423, Start Num: 32

Candidate Starts for UAch1\_71:

(Start: 32 @57725 has 288 MA's), (44, 57815), (47, 57824), (48, 57830), (51, 57866), (52, 57872), (54, 57887), (60, 57941), (61, 57944), (65, 57965), (67, 57980), (68, 58001), (80, 58091), (85, 58139),

Gene: UncleHowie\_67 Start: 57005, Stop: 57712, Start Num: 32

Candidate Starts for UncleHowie\_67:

(Start: 32 @57005 has 288 MA's), (44, 57095), (47, 57104), (48, 57110), (51, 57146), (52, 57152), (54, 57167), (60, 57221), (61, 57224), (65, 57245), (67, 57260), (68, 57281), (80, 57371), (85, 57419),

Gene: Usavi\_71 Start: 58009, Stop: 58716, Start Num: 32

Candidate Starts for Usavi\_71:

(Start: 32 @58009 has 288 MA's), (44, 58099), (47, 58108), (51, 58150), (52, 58156), (54, 58171), (60, 58225), (61, 58228), (65, 58249), (67, 58264), (68, 58285), (80, 58375), (85, 58423),

Gene: Vaishali24\_71 Start: 57680, Stop: 58378, Start Num: 32

Candidate Starts for Vaishali24\_71:

(Start: 32 @57680 has 288 MA's), (44, 57770), (47, 57779), (51, 57821), (52, 57827), (54, 57842), (60, 57896), (61, 57899), (65, 57920), (67, 57935), (68, 57956), (80, 58046), (85, 58094),

Gene: Valjean\_69 Start: 57580, Stop: 58275, Start Num: 32

Candidate Starts for Valjean\_69:

(Start: 32 @57580 has 288 MA's), (44, 57670), (47, 57679), (48, 57685), (51, 57721), (52, 57727), (54, 57742), (60, 57796), (61, 57799), (65, 57820), (67, 57835), (68, 57856), (80, 57946), (85, 57994), (99, 58174),

Gene: Vaticameos\_67 Start: 55884, Stop: 56579, Start Num: 32

Candidate Starts for Vaticameos\_67:

(Start: 32 @55884 has 288 MA's), (44, 55974), (47, 55983), (48, 55989), (51, 56025), (52, 56031), (54, 56046), (60, 56100), (61, 56103), (65, 56124), (67, 56139), (68, 56160), (80, 56250), (85, 56298), (99, 56478),

Gene: Veritas\_69 Start: 57482, Stop: 58189, Start Num: 32

Candidate Starts for Veritas\_69:

(Start: 32 @57482 has 288 MA's), (44, 57572), (47, 57581), (48, 57587), (51, 57623), (52, 57629), (54, 57644), (60, 57698), (61, 57701), (65, 57722), (67, 57737), (68, 57758), (80, 57848), (85, 57896),

Gene: Vincenzo\_70 Start: 60825, Stop: 61445, Start Num: 28

Candidate Starts for Vincenzo\_70:

(2, 60477), (5, 60576), (7, 60582), (11, 60621), (Start: 28 @60825 has 2 MA's), (46, 60921), (49, 60957), (51, 60969), (53, 60981), (61, 61047), (62, 61050), (68, 61104), (69, 61107), (73, 61137), (83, 61215), (87, 61278), (94, 61380),

Gene: VioletZ\_69 Start: 59597, Stop: 60184, Start Num: 36

Candidate Starts for VioletZ\_69:

(Start: 36 @59597 has 28 MA's), (40, 59627), (44, 59663), (46, 59666), (49, 59702), (57, 59753), (61, 59792), (62, 59795), (68, 59849), (69, 59852), (74, 59885), (75, 59894), (76, 59915), (83, 59960), (87, 60023),

Gene: Virapocalypse\_71 Start: 57679, Stop: 58374, Start Num: 32

Candidate Starts for Virapocalypse\_71:

(Start: 32 @57679 has 288 MA's), (44, 57769), (47, 57778), (48, 57784), (51, 57820), (52, 57826), (54, 57841), (60, 57895), (61, 57898), (65, 57919), (67, 57934), (68, 57955), (80, 58045), (85, 58093), (99, 58273),

Gene: Virgeve\_68 Start: 57284, Stop: 57991, Start Num: 32

Candidate Starts for Virgeve\_68:

(Start: 32 @57284 has 288 MA's), (44, 57374), (47, 57383), (48, 57389), (51, 57425), (52, 57431), (54, 57446), (60, 57500), (61, 57503), (65, 57524), (67, 57539), (68, 57560), (80, 57650), (85, 57698),

Gene: Vista\_69 Start: 57480, Stop: 58187, Start Num: 32

Candidate Starts for Vista\_69:

(Start: 32 @57480 has 288 MA's), (44, 57570), (47, 57579), (48, 57585), (51, 57621), (52, 57627), (54, 57642), (60, 57696), (61, 57699), (65, 57720), (67, 57735), (68, 57756), (80, 57846), (85, 57894),

Gene: Vivaldi\_70 Start: 57767, Stop: 58474, Start Num: 32

Candidate Starts for Vivaldi\_70:

(Start: 32 @57767 has 288 MA's), (44, 57857), (47, 57866), (48, 57872), (51, 57908), (52, 57914), (54, 57929), (60, 57983), (61, 57986), (65, 58007), (67, 58022), (68, 58043), (80, 58133), (85, 58181), (97, 58334),

Gene: Vortex\_69 Start: 57590, Stop: 58297, Start Num: 32

Candidate Starts for Vortex\_69:

(Start: 32 @57590 has 288 MA's), (44, 57680), (47, 57689), (48, 57695), (51, 57731), (52, 57737), (54, 57752), (60, 57806), (61, 57809), (65, 57830), (67, 57845), (68, 57866), (80, 57956), (85, 58004),

Gene: Waleliano\_67 Start: 59486, Stop: 60073, Start Num: 36

Candidate Starts for Waleliano\_67:

(19, 59351), (20, 59360), (Start: 36 @59486 has 28 MA's), (40, 59516), (44, 59552), (46, 59555), (49, 59591), (57, 59642), (61, 59681), (62, 59684), (68, 59738), (69, 59741), (74, 59774), (75, 59783), (82, 59840), (83, 59849), (87, 59912), (94, 60014),

Gene: Wallhey\_71 Start: 57587, Stop: 58294, Start Num: 32

Candidate Starts for Wallhey\_71:

(Start: 32 @57587 has 288 MA's), (44, 57677), (47, 57686), (48, 57692), (51, 57728), (52, 57734), (54, 57749), (60, 57803), (61, 57806), (65, 57827), (67, 57842), (68, 57863), (80, 57953), (85, 58001),

Gene: Waterdiva\_71 Start: 57857, Stop: 58564, Start Num: 32

Candidate Starts for Waterdiva\_71:

(Start: 32 @57857 has 288 MA's), (44, 57947), (47, 57956), (48, 57962), (51, 57998), (52, 58004), (54, 58019), (60, 58073), (61, 58076), (65, 58097), (67, 58112), (68, 58133), (80, 58223), (85, 58271),

Gene: Weher20\_67 Start: 57925, Stop: 58632, Start Num: 32

Candidate Starts for Weher20\_67:

(Start: 32 @57925 has 288 MA's), (44, 58015), (47, 58024), (48, 58030), (51, 58066), (52, 58072), (54, 58087), (60, 58141), (61, 58144), (65, 58165), (67, 58180), (68, 58201), (80, 58291), (85, 58339),

Gene: Windsor\_70 Start: 57870, Stop: 58577, Start Num: 32

Candidate Starts for Windsor\_70:

(Start: 32 @57870 has 288 MA's), (44, 57960), (47, 57969), (51, 58011), (52, 58017), (54, 58032), (60, 58086), (61, 58089), (65, 58110), (67, 58125), (68, 58146), (80, 58236), (85, 58284),

Gene: Xavier\_70 Start: 57485, Stop: 58189, Start Num: 32

Candidate Starts for Xavier\_70:

(Start: 32 @57485 has 288 MA's), (44, 57575), (47, 57584), (48, 57590), (51, 57626), (52, 57632), (54, 57647), (60, 57701), (61, 57704), (65, 57725), (67, 57740), (68, 57761), (80, 57851), (85, 57899), (99, 58079),

Gene: Xincheng\_67 Start: 60697, Stop: 61287, Start Num: 36

Candidate Starts for Xincheng\_67:

(19, 60562), (20, 60571), (Start: 36 @60697 has 28 MA's), (40, 60727), (44, 60763), (46, 60766), (49, 60802), (51, 60814), (57, 60853), (61, 60892), (62, 60895), (68, 60949), (69, 60952), (82, 61051), (83, 61060), (87, 61123), (94, 61225),

Gene: Yoshand\_71 Start: 57757, Stop: 58455, Start Num: 32

Candidate Starts for Yoshand\_71:

(Start: 32 @57757 has 288 MA's), (44, 57847), (47, 57856), (51, 57898), (52, 57904), (54, 57919), (60, 57973), (61, 57976), (65, 57997), (67, 58012), (68, 58033), (80, 58123), (85, 58171), (97, 58324),

Gene: YouGoGlencoco\_70 Start: 57595, Stop: 58302, Start Num: 32

Candidate Starts for YouGoGlencoco\_70:

(Start: 32 @57595 has 288 MA's), (44, 57685), (47, 57694), (48, 57700), (51, 57736), (52, 57742), (54, 57757), (60, 57811), (61, 57814), (65, 57835), (67, 57850), (68, 57871), (80, 57961), (85, 58009),

Gene: Zaider\_71 Start: 57820, Stop: 58515, Start Num: 32

Candidate Starts for Zaider\_71:

(Start: 32 @57820 has 288 MA's), (44, 57910), (47, 57919), (48, 57925), (51, 57961), (52, 57967), (54, 57982), (60, 58036), (61, 58039), (65, 58060), (67, 58075), (68, 58096), (80, 58186), (85, 58234), (99, 58414),

Gene: Zelda\_70 Start: 57935, Stop: 58642, Start Num: 32

Candidate Starts for Zelda\_70:

(Start: 32 @57935 has 288 MA's), (44, 58025), (47, 58034), (48, 58040), (51, 58076), (52, 58082), (54, 58097), (60, 58151), (61, 58154), (65, 58175), (67, 58190), (68, 58211), (80, 58301), (85, 58349),

Gene: Zemanar\_67 Start: 59384, Stop: 59971, Start Num: 36

Candidate Starts for Zemanar\_67:

(19, 59249), (20, 59258), (Start: 36 @59384 has 28 MA's), (44, 59450), (46, 59453), (49, 59489), (57, 59540), (61, 59579), (62, 59582), (68, 59636), (69, 59639), (82, 59738), (83, 59747), (87, 59810), (94, 59912),

Gene: Zonia\_71 Start: 58038, Stop: 58745, Start Num: 32

Candidate Starts for Zonia\_71:

(Start: 32 @58038 has 288 MA's), (44, 58128), (47, 58137), (48, 58143), (51, 58179), (52, 58185), (54, 58200), (60, 58254), (61, 58257), (65, 58278), (67, 58293), (68, 58314), (80, 58404), (85, 58452),