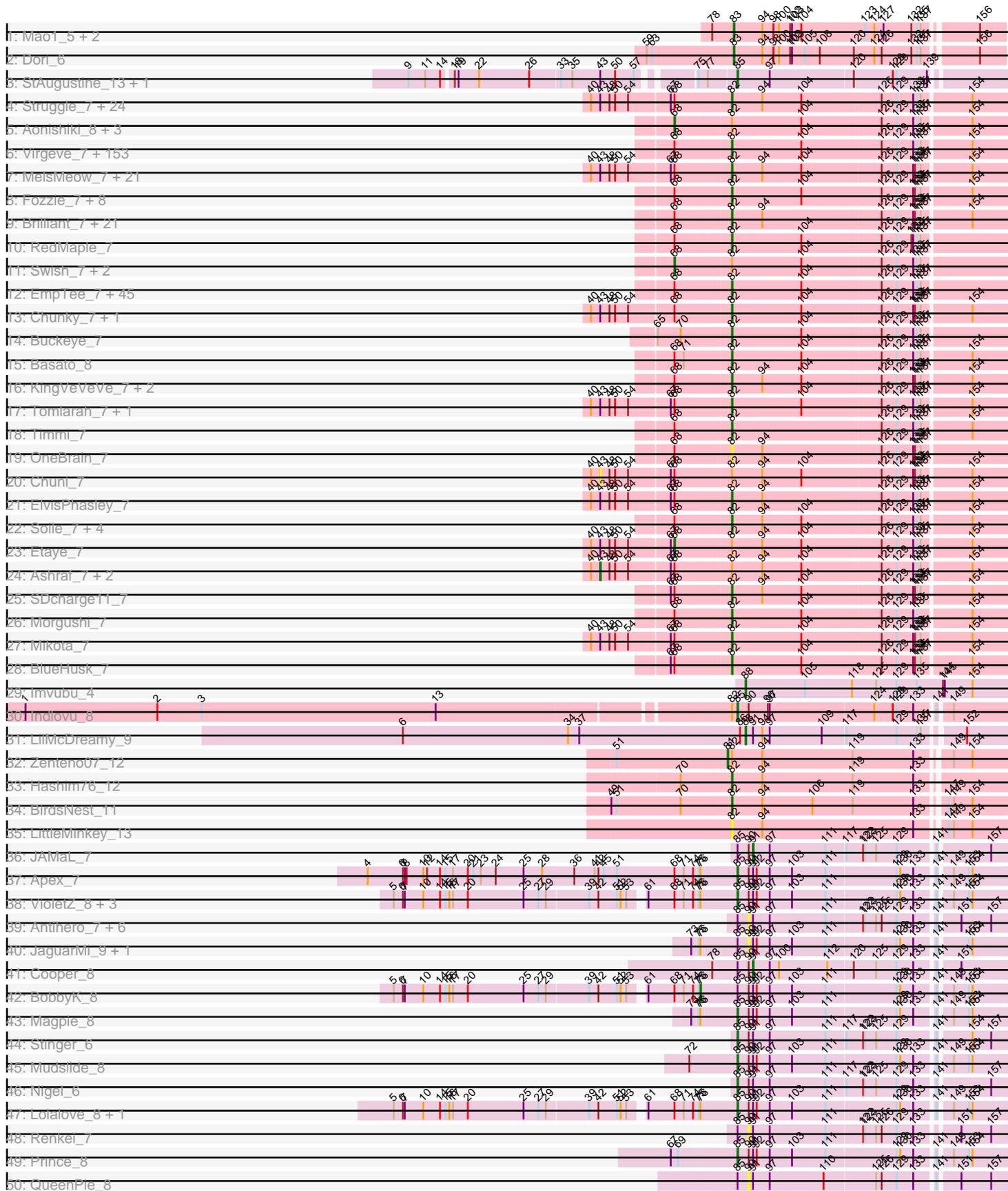
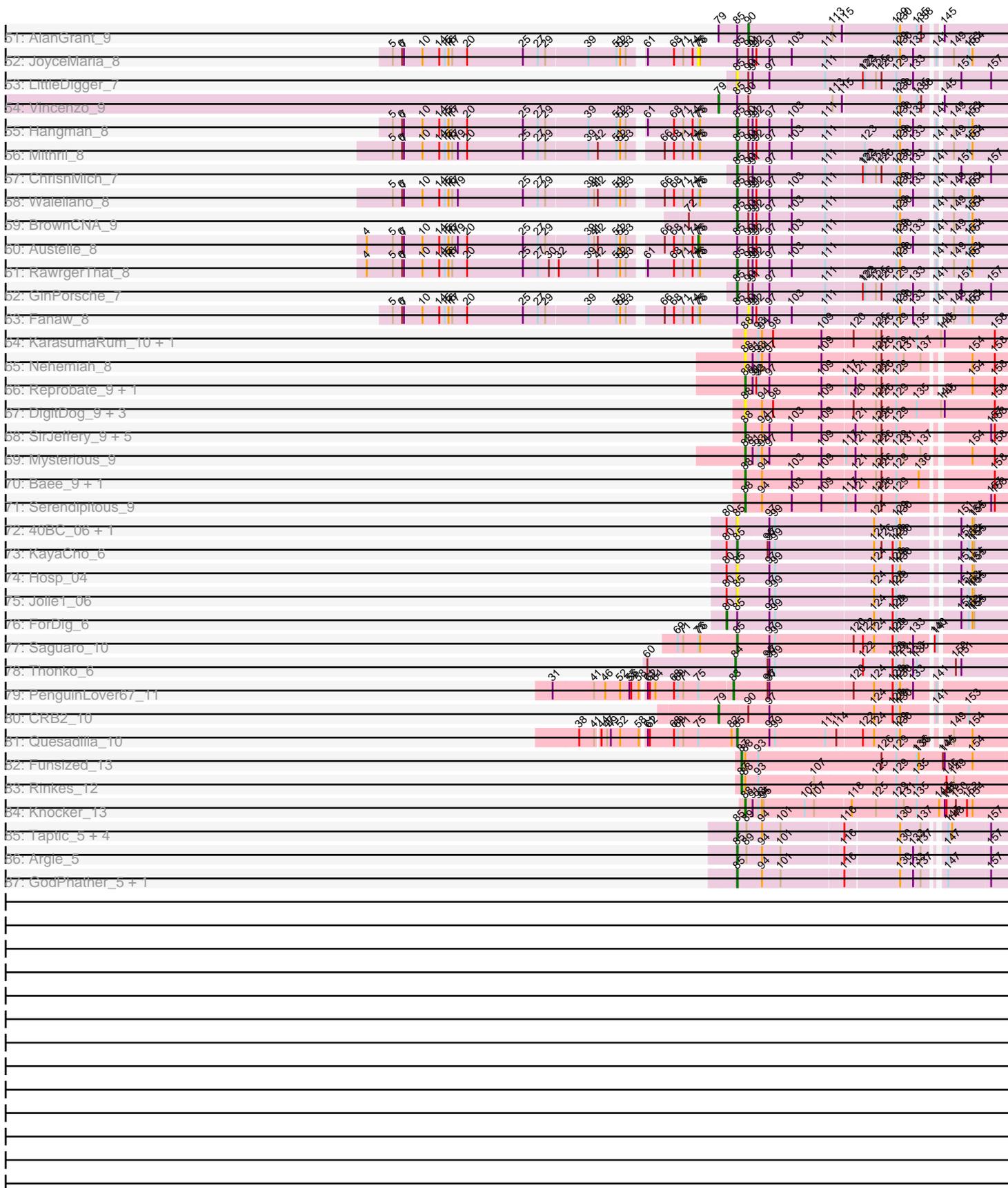


Pham 286761



Pham 286761



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 286761 Report

This analysis was run 03/28/26 on database version 641.

Pham number 286761 has 405 members, 60 are drafts.

Phages represented in each track:

- Track 1 : Mao1\_5, Mask\_6, Sejanus\_6
- Track 2 : Dori\_6
- Track 3 : StAugustine\_13, Causa\_15
- Track 4 : Struggle\_7, Veritas\_7, MichaelPhcott\_7, PhrankReynolds\_7, Trypo\_7, Riverton\_7, Wallhey\_7, Pinkman\_7, Kailash\_7, Mag7\_7, Labeouficaum\_7, Phleuron\_7, Freya\_7, Oline\_7, FleetyMac\_7, Coletti\_7, Derpp\_7, PhenghisKhan\_7, Doddsville\_7, DuchessDung\_7, BatteryCK\_7, Chute\_7, CharlieGBrown\_7, TyrionL\_7, Phergie\_7
- Track 5 : Aonishiki\_8, DoesntMatter\_7, FluffyNinja\_7, Beaglebox\_7
- Track 6 : Virgeve\_7, Morty\_7, HenryJackson\_7, Orion\_7, Weher20\_7, Childish\_7, Adriana\_7, Skippy\_7, Yoshand\_7, LemonSlice\_7, BoogieWoogie\_7, Kloppinator\_7, Legolas\_7, Puhltonio\_7, ThreeOh3D2\_7, ProfessorX\_7, DonSanchon\_7, Riggan\_7, PhrodoBaggins\_7, PallasAthena\_8, Pherdinand\_7, AngelCake\_7, ShiVal\_7, Orwigg\_7, Serendipity\_7, Slatt\_7, Chipette\_9, Craff\_7, TooFast2Furius\_9, Surely\_7, True\_7, Oosterbaan\_7, Haimas\_7, Megatron\_7, Cobra\_7, Burr\_7, Iridoclysis\_7, Mana\_7, Gophee\_7, DirtJuice\_7, Usavi\_7, Valjean\_7, Thora\_7, TomBombadil\_7, Zaider\_8, SilverBell\_7, Inchworm\_7, Placalicious\_7, Boehler\_7, Hamish\_7, Xavier\_7, Lulwa\_7, Spartan300\_7, Vaishali24\_7, TallGrassMM\_7, Schadenfreude\_7, Pipsqueak\_7, Hocus\_7, UncleHowie\_7, Squiggle\_7, FremontTroll\_8, Simielle\_7, BlackStallion\_7, Vista\_7, Schueller\_7, Solosis\_7, Potter\_7, Sigman\_7, Fang\_7, LeeLot\_7, Samaymay\_7, Sophia\_7, Chah\_7, Nyala\_7, Altwerkus\_7, Caspiwai\_7, Cher\_7, Zelda\_7, Hartsy\_7, Colbert\_7, Lehmann\_8, Andre\_7, ABU\_7, Kahve\_7, Blackberry\_7, MRabcd\_7, YouGoGlencoco\_7, IsaacEli\_7, AltPhacts\_7, Omniscient\_7, Mutante\_7, QueenBeane\_7, KLucky39\_7, Flake\_8, Bishoperium\_7, Apizium\_7, SassyCat97\_7, Charles1\_7, Piglet\_007, Mesh1\_7, Antonia\_7, Banjo\_7, Dice\_7, Triad\_7, LostAndPhound\_7, FriarPreacher\_7, Keitherie\_7, Kikipoo\_7, HighStump\_7, Lego3393\_7, Vortex\_7, PG1\_7, LasagnaCat\_7, Mecca\_7, PinheadLarry\_7, Hertubise\_7, Olive\_7, Larson\_8, ShadowBud\_8, Mosaic\_7, Emiris\_7, Megamind20\_8, Cornbread\_7, JacAttac\_7, Chorkpop\_7, Gareth\_7, Bluephacebaby\_7, Serpentine\_007, Phamished\_7, Phareon\_7, CamL\_7, Telesworld\_7, Cannibal\_7, Magic8\_7, Jillium\_7, Vaticameos\_7, Sheila\_7, Podrick\_7, Fringe\_7, Dati\_7, Quisquilliae\_7, UAch1\_7, Murdoc\_7, Manad\_7, Waterdiva\_7, Hetaeria\_7, Lasso\_7, Cornobble\_7, Squid\_7, Anderson\_7, Vivaldi\_7, Numberten\_7, Mcshane\_7, Horchata\_7
- Track 7 : MelsMeow\_7, Plmatters\_7, Windsor\_7, Mesmerelda\_7, Lumine\_7, Roliet\_7, Crownjwl\_8, Phipps\_7, Soto\_7, SirBeaugard\_7, Dione\_7, Roscoe\_8, Selr12\_7, Olak\_7, Scrick\_7, Haleema\_7, Phunky\_7, Dingo\_7, MiniBoss\_7,

Kwksand96\_7, Chaelin\_7, LuckyMarjie\_7  
• Track 8 : Fozzie\_7, RedRaider89\_8, Swiphy\_7, DoIOn\_9, Nathan\_7, GeneCoco\_7, Pacifista\_7, OSmaximus\_7, PhatLouie\_7  
• Track 9 : Brilliant\_7, DaddyDaniels\_7, Khan1\_7, Plata\_7, Longacauda\_7, MrPhizzler\_7, JakeO\_7, Karn\_7, Durga\_7, Thunderbird\_7, Jiminy\_7, JDog\_7, HogWash\_7, Happabalu\_7, Zonia\_7, Jiraiya\_7, Duggie\_7, Aleia\_7, LeiMonet\_7, Iridessa\_7, Gwennie1\_7, Rimu\_7  
• Track 10 : RedMaple\_7  
• Track 11 : Swish\_7, Katniss\_7, Badfish\_7  
• Track 12 : EmpTee\_7, Robyn\_7, Pops\_7, PhatCats2014\_7, Matalotodo\_7, Newman\_7, Grand2040\_7, Aelin\_7, Eremos\_7, KingTut\_7, Lulumae\_7, Hekos\_7, MitKao\_7, Gyarad\_007, Nacho\_007, Eugenia\_7, Prickles\_7, Roy17\_7, Held\_7, Lopsy\_7, Cosmolli16\_7, Tooj\_7, AbsoluteMadLad\_7, GreenChile\_8, OliverWalter\_7, Nicole21\_7, KlimbOn\_7, Daffy\_7, Suffolk\_7, Carthage\_7, Toni\_7, CampRoach\_7, Scoot17C\_7, Virapocalypse\_7, FugateOSU\_7, JangoPhett\_7, Frankicide\_7, Giraffe\_7, Mulan\_7, CheetO\_7, Maru\_7, Gwilliam\_7, Daka\_7, HSavage\_7, Inverness\_7, SallyH\_8  
• Track 13 : Chunky\_7, Melc17\_7  
• Track 14 : Buckeye\_7  
• Track 15 : Basato\_8  
• Track 16 : KingVeVeVe\_7, Ricotta\_7, Kwadwo\_7  
• Track 17 : Tomlarah\_7, Kimbrough\_7  
• Track 18 : Timmi\_7  
• Track 19 : OneBrain\_7  
• Track 20 : Chuni\_7  
• Track 21 : ElvisPhasley\_7  
• Track 22 : Soile\_7, Jesabah\_7, DelRivs\_7, Harvey\_7, Orfeu\_7  
• Track 23 : Etaye\_7  
• Track 24 : Ashraf\_7, ImtiyazSitla\_7, Maskar\_7  
• Track 25 : SDcharge11\_7  
• Track 26 : Morgushi\_7  
• Track 27 : Mikota\_7  
• Track 28 : BlueHusk\_7  
• Track 29 : Imvubu\_4  
• Track 30 : Indlovu\_8  
• Track 31 : LilMcDreamy\_9  
• Track 32 : Zenteno07\_12  
• Track 33 : Hashim76\_12  
• Track 34 : BirdsNest\_11  
• Track 35 : LittleMinkey\_13  
• Track 36 : JAMaL\_7  
• Track 37 : Apex\_7  
• Track 38 : VioletZ\_8, Zemanar\_9, Heath\_8, Frederick\_8  
• Track 39 : Antihero\_7, Ahwei\_7, Lambano\_7, Epah\_7, Hally898\_7, Poster\_7, Nanao\_7  
• Track 40 : JaguarMi\_9, Xincheng\_8  
• Track 41 : Cooper\_8  
• Track 42 : BobbyK\_8  
• Track 43 : Magpie\_8  
• Track 44 : Stinger\_6  
• Track 45 : Mudslide\_8  
• Track 46 : Nigel\_6  
• Track 47 : Lolalove\_8, Hydro\_8

- Track 48 : Renkei\_7
- Track 49 : Prince\_8
- Track 50 : QueenPie\_8
- Track 51 : AlanGrant\_9
- Track 52 : JoyceMaria\_8
- Track 53 : LittleDigger\_7
- Track 54 : Vincenzo\_9
- Track 55 : Hangman\_8
- Track 56 : Mithril\_8
- Track 57 : ChrisMich\_7
- Track 58 : Waleliano\_8
- Track 59 : BrownCNA\_9
- Track 60 : Austelle\_8
- Track 61 : RawrgerThat\_8
- Track 62 : GinPorsche\_7
- Track 63 : Fanaw\_8
- Track 64 : KarasumaRum\_10, StinkyVeggy\_10
- Track 65 : Nehemiah\_8
- Track 66 : Reprobate\_9, Phelemich\_9
- Track 67 : DigitDog\_9, Reccee\_10, Shenyu\_9, Nangang\_9
- Track 68 : SirJeffery\_9, Acadian\_9, Rita130\_9, Suigeneris\_9, Donny\_9, EastView9101\_9
- Track 69 : Mysterious\_9
- Track 70 : Bae\_9, Rich\_9
- Track 71 : Serendipitous\_9
- Track 72 : 40BC\_06, 39HC\_06
- Track 73 : KayaCho\_6
- Track 74 : Hosp\_04
- Track 75 : Jolie1\_06
- Track 76 : ForDig\_6
- Track 77 : Saguaro\_10
- Track 78 : Thonko\_6
- Track 79 : PenguinLover67\_11
- Track 80 : CRB2\_10
- Track 81 : Quesadilla\_10
- Track 82 : Funsized\_13
- Track 83 : Rinkes\_12
- Track 84 : Knocker\_13
- Track 85 : Taptic\_5, PR\_05, D12\_05, Megabear\_5, Cepens\_5
- Track 86 : Argie\_5
- Track 87 : GodPhather\_5, Jeon\_5

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

The start number called the most often in the published annotations is 82, it was called in 272 of the 345 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ABU\_7, AbsoluteMadLad\_7, Adriana\_7, Aelin\_7, Aleia\_7, AltPhacts\_7, Altwerkus\_7, Anderson\_7, Andre\_7, AngelCake\_7, Antonia\_7, Apizium\_7, Banjo\_7, Basato\_8,

BatteryCK\_7, BirdsNest\_11, Bishoperium\_7, BlackStallion\_7, BlacksBerry\_7, BlueHusk\_7, Bluephacebaby\_7, Boehler\_7, BoogieWoogie\_7, Brilliant\_7, Buckeye\_7, Burr\_7, CamL\_7, CampRoach\_7, Cannibal\_7, Carthage\_7, CaspiBoi\_7, Chaelin\_7, Chah\_7, Charles1\_7, CharlieGBrown\_7, CheetO\_7, Cher\_7, Childish\_7, Chipette\_9, Chorkpop\_7, Chunky\_7, Chute\_7, Cobra\_7, Colbert\_7, Coletti\_7, Cornbread\_7, Cornobble\_7, Cosmolli16\_7, Craff\_7, Crownjwl\_8, DaddyDaniels\_7, Daffy\_7, Daka\_7, Dati\_7, DelRivs\_7, Derpp\_7, Dice\_7, Dingo\_7, Dione\_7, DirtJuice\_7, Doddsville\_7, DolOn\_9, DonSanchon\_7, DuchessDung\_7, Duggie\_7, Durga\_7, ElvisPhasley\_7, Emiris\_7, EmpTee\_7, Eremos\_7, Eugenia\_7, Fang\_7, Flake\_8, FleetyMac\_7, Fozzie\_7, Frankicide\_7, FremontTroll\_8, Freya\_7, FriarPreacher\_7, Fringe\_7, FugateOSU\_7, Gareth\_7, GeneCoco\_7, Giraffe\_7, Gophee\_7, Grand2040\_7, GreenChile\_8, Gwennie1\_7, Gwilliam\_7, Gyarad\_007, HSavage\_7, Haimas\_7, Haleema\_7, Hamish\_7, Happabalu\_7, Hartsy\_7, Harvey\_7, Hashim76\_12, Hekos\_7, Held\_7, HenryJackson\_7, Hertubise\_7, Hetaeria\_7, HighStump\_7, Hocus\_7, HogWash\_7, Horchata\_7, Inchworm\_7, Inverness\_7, Iridessa\_7, Iridoclysis\_7, IsaacEli\_7, JDog\_7, JacAttac\_7, JakeO\_7, JangoPhett\_7, Jesabah\_7, Jillium\_7, Jiminy\_7, Jiraiya\_7, KLucky39\_7, Kahve\_7, Kailash\_7, Karn\_7, Keitherie\_7, Khan1\_7, Kikipoo\_7, Kimbrough\_7, KingTut\_7, KingVeVeVe\_7, KlimbOn\_7, Kloppinator\_7, Kwadwo\_7, Kwksand96\_7, Labeouficaum\_7, Larson\_8, LasagnaCat\_7, Lasso\_7, LeeLot\_7, Lego3393\_7, Legolas\_7, Lehmann\_8, LeiMonet\_7, LemonSlice\_7, LittleMinkey\_13, Longacauda\_7, Lopsy\_7, LostAndPhound\_7, LuckyMarjie\_7, Lulumae\_7, Lulwa\_7, Lumine\_7, MRabcd\_7, Mag7\_7, Magic8\_7, Mana\_7, Manad\_7, Maru\_7, Matalotodo\_7, Mcshane\_7, Mecca\_7, Megamind20\_8, Megatron\_7, Melc17\_7, MelsMeow\_7, Mesh1\_7, Mesmerelda\_7, MichaelPhcott\_7, Mikota\_7, MiniBoss\_7, MitKao\_7, Morgushi\_7, Morty\_7, Mosaic\_7, MrPhizzler\_7, Mulan\_7, Murdoc\_7, Mutante\_7, Nacho\_007, Nathan\_7, Newman\_7, Nicole21\_7, Numberten\_7, Nyala\_7, OSmaximus\_7, Olak\_7, Oline\_7, Olive\_7, OliverWalter\_7, Omniscient\_7, OneBrain\_7, Oosterbaan\_7, Orfeu\_7, Orion\_7, Orwigg\_7, PG1\_7, Pacifista\_7, PallasAthena\_8, Phamished\_7, Phareon\_7, PhatCats2014\_7, PhatLouie\_7, PhenghisKhan\_7, Pherdinand\_7, Phergie\_7, Phipps\_7, Phleuron\_7, PhrankReynolds\_7, PhrodoBaggins\_7, Phunky\_7, Piglet\_007, PinheadLarry\_7, Pinkman\_7, Pipsqueak\_7, Placalicious\_7, Plata\_7, Plmatters\_7, Podrick\_7, Pops\_7, Potter\_7, Prickles\_7, ProfessorX\_7, Puhltonio\_7, QueenBeane\_7, Quisquiliae\_7, RedMaple\_7, RedRaider89\_8, Ricotta\_7, Riggan\_7, Rimu\_7, Riverton\_7, Robyn\_7, Roliet\_7, Roscoe\_8, Roy17\_7, SDcharge11\_7, SallyH\_8, Samaymay\_7, SassyCat97\_7, Schadenfreude\_7, Schueller\_7, Scoot17C\_7, Scrick\_7, Selr12\_7, Serendipity\_7, Serpentine\_007, ShadowBud\_8, Sheila\_7, ShiVal\_7, Sigman\_7, SilverBell\_7, Simielle\_7, SirBeauregard\_7, Skippy\_7, Slatt\_7, Soile\_7, Solosis\_7, Sophia\_7, Soto\_7, Spartan300\_7, Squid\_7, Squiggle\_7, Struggle\_7, Suffolk\_7, Surely\_7, Swiphy\_7, TallGrassMM\_7, Telesworld\_7, Thora\_7, ThreeOh3D2\_7, Thunderbird\_7, Timmi\_7, TomBombadil\_7, Tomlarah\_7, Toni\_7, TooFast2Furius\_9, Tooj\_7, Triad\_7, True\_7, Trypo\_7, TyrionL\_7, UAch1\_7, UncleHowie\_7, Usavi\_7, Vaishali24\_7, Valjean\_7, Vaticameos\_7, Veritas\_7, Virapocalypse\_7, Virgeve\_7, Vista\_7, Vivaldi\_7, Vortex\_7, Wallhey\_7, Waterdiva\_7, Weher20\_7, Windsor\_7, Xavier\_7, Yoshand\_7, YouGoGlencoco\_7, Zaider\_8, Zelda\_7, Zonia\_7,

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

- Aonishiki\_8, Ashraf\_7, Badfish\_7, Beaglebox\_7, Chuni\_7, DoesntMatter\_7, Etaye\_7, FluffyNinja\_7, ImtiyazSitla\_7, Indlovu\_8, Katniss\_7, Maskar\_7, Quesadilla\_10, Swish\_7, Zenteno07\_12,

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

- 39HC\_06, 40BC\_06, Acadian\_9, Ahwei\_7, AlanGrant\_9, Antihero\_7, Apex\_7, Argie\_5, Austelle\_8, Bae\_9, BobbyK\_8, BrownCNA\_9, CRB2\_10, Causa\_15, Cepens\_5, ChrisnMich\_7, Cooper\_8, D12\_05, DigitDog\_9, Donny\_9, Dori\_6, EastView9101\_9, Epah\_7, Fanaw\_8, ForDig\_6, Frederick\_8, Funsized\_13, GinPorsche\_7, GodPhather\_5, Hally898\_7, Hangman\_8, Heath\_8, Hosp\_04, Hydro\_8, Imvubu\_4, JAMaL\_7, JaguarMi\_9, Jeon\_5, Jolie1\_06, JoyceMaria\_8, KarasumaRum\_10, KayaCho\_6, Knocker\_13, Lambano\_7, LilMcDreamy\_9, LittleDigger\_7, Lolalove\_8, Magpie\_8, Mao1\_5, Mask\_6, Megabear\_5, Mithril\_8, Mudslide\_8, Mysterious\_9, Nanao\_7, Nangang\_9, Nehemiah\_8, Nigel\_6, PR\_05, PenguinLover67\_11, Phelemich\_9, Poster\_7, Prince\_8, QueenPie\_8, RawrgerThat\_8, Reccee\_10, Renkei\_7, Reprobate\_9, Rich\_9, Rinkes\_12, Rita130\_9, Saguaro\_10, Sejanus\_6, Serendipitous\_9, Shenyu\_9, SirJeffery\_9, StAugustine\_13, Stinger\_6, StinkyVeggy\_10, Suigeneris\_9, Taptic\_5, Thonko\_6, Vincenzo\_9, VioletZ\_8, Waleliano\_8, Xincheng\_8, Zemanar\_9,

### Summary by start number:

#### Start 43:

- Found in 60 of 405 ( 14.8% ) of genes in pham
- Manual Annotations of this start: 3 of 345
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Ashraf\_7 (B1), Chuni\_7 (B1), IntiyazSitla\_7 (B1), Maskar\_7 (B1),

#### Start 68:

- Found in 328 of 405 ( 81.0% ) of genes in pham
- Manual Annotations of this start: 7 of 345
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Aonishiki\_8 (B1), Badfish\_7 (B1), Beaglebox\_7 (B1), DoesntMatter\_7 (B1), Etaye\_7 (B1), FluffyNinja\_7 (B1), Katniss\_7 (B1), Swish\_7 (B1),

#### Start 75:

- Found in 23 of 405 ( 5.7% ) of genes in pham
- Manual Annotations of this start: 1 of 345
- Called 8.7% of time when present
- Phage (with cluster) where this start called: Austelle\_8 (B4), JoyceMaria\_8 (B4),

#### Start 76:

- Found in 19 of 405 ( 4.7% ) of genes in pham
- Manual Annotations of this start: 1 of 345
- Called 5.3% of time when present
- Phage (with cluster) where this start called: BobbyK\_8 (B4),

#### Start 79:

- Found in 3 of 405 ( 0.7% ) of genes in pham
- Manual Annotations of this start: 2 of 345
- Called 66.7% of time when present
- Phage (with cluster) where this start called: CRB2\_10 (B9), Vincenzo\_9 (B4),

#### Start 80:

- Found in 6 of 405 ( 1.5% ) of genes in pham
- Manual Annotations of this start: 1 of 345

- Called 16.7% of time when present
- Phage (with cluster) where this start called: ForDig\_6 (B6),

Start 81:

- Found in 1 of 405 ( 0.2% ) of genes in pham
- Manual Annotations of this start: 1 of 345
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zenteno07\_12 (B13),

Start 82:

- Found in 318 of 405 ( 78.5% ) of genes in pham
- Manual Annotations of this start: 272 of 345
- Called 95.3% of time when present
- Phage (with cluster) where this start called: ABU\_7 (B1), AbsoluteMadLad\_7 (B1), Adriana\_7 (B1), Aelin\_7 (B1), Aleia\_7 (B1), AltPhacts\_7 (B1), Altwerkus\_7 (B1), Anderson\_7 (B1), Andre\_7 (B1), AngelCake\_7 (B1), Antonia\_7 (B1), Apizium\_7 (B1), Banjo\_7 (B1), Basato\_8 (B1), BatteryCK\_7 (B1), BirdsNest\_11 (B13), Bishoperium\_7 (B1), BlackStallion\_7 (B1), BlacksBerry\_7 (B1), BlueHusk\_7 (B1), Bluephacebaby\_7 (B1), Boehler\_7 (B1), BoogieWoogie\_7 (B1), Brilliant\_7 (B1), Buckeye\_7 (B1), Burr\_7 (B1), CamL\_7 (B1), CampRoach\_7 (B1), Cannibal\_7 (B1), Carthage\_7 (B1), Caspiboi\_7 (B1), Chaelin\_7 (B1), Chah\_7 (B1), Charles1\_7 (B1), CharlieGBrown\_7 (B1), CheetO\_7 (B1), Cher\_7 (B1), Childish\_7 (B1), Chipette\_9 (B1), Chorkpop\_7 (B1), Chunky\_7 (B1), Chute\_7 (B1), Cobra\_7 (B1), Colbert\_7 (B1), Coletti\_7 (B1), Cornbread\_7 (B1), Cornobble\_7 (B1), Cosmolli16\_7 (B1), Craff\_7 (B1), Crownjwl\_8 (B1), DaddyDaniels\_7 (B1), Daffy\_7 (B1), Daka\_7 (B1), Dati\_7 (B1), DelRivs\_7 (B1), Derpp\_7 (B1), Dice\_7 (B1), Dingo\_7 (B1), Dione\_7 (B1), DirtJuice\_7 (B1), Doddsville\_7 (B1), DolOn\_9 (B1), DonSanchon\_7 (B1), DuchessDung\_7 (B1), Duggie\_7 (B1), Durga\_7 (B1), ElvisPhasley\_7 (B1), Emiris\_7 (B1), EmpTee\_7 (B1), Eremos\_7 (B1), Eugenia\_7 (B1), Fang\_7 (B1), Flake\_8 (B1), FleetyMac\_7 (B1), Fozzie\_7 (B1), Frankicide\_7 (B1), FremontTroll\_8 (B1), Freya\_7 (B1), FriarPreacher\_7 (B1), Fringe\_7 (B1), FugateOSU\_7 (B1), Gareth\_7 (B1), GeneCoco\_7 (B1), Giraffe\_7 (B1), Gophee\_7 (B1), Grand2040\_7 (B1), GreenChile\_8 (B1), Gwennie1\_7 (B1), Gwilliam\_7 (B1), Gyarad\_007 (B1), HSavage\_7 (B1), Haimas\_7 (B1), Haleema\_7 (B1), Hamish\_7 (B1), Happabalu\_7 (B1), Hartsy\_7 (B1), Harvey\_7 (B1), Hashim76\_12 (B13), Hekos\_7 (B1), Held\_7 (B1), HenryJackson\_7 (B1), Hertubise\_7 (B1), Hetaeria\_7 (B1), HighStump\_7 (B1), Hocus\_7 (B1), HogWash\_7 (B1), Horchata\_7 (B1), Inchworm\_7 (B1), Inverness\_7 (B1), Iridessa\_7 (B1), Iridoclysis\_7 (B1), IsaacEli\_7 (B1), JDog\_7 (B1), JacAttac\_7 (B1), JakeO\_7 (B1), JangoPhett\_7 (B1), Jesabah\_7 (B1), Jillium\_7 (B1), Jiminy\_7 (B1), Jiraiya\_7 (B1), KLucky39\_7 (B1), Kahve\_7 (B1), Kailash\_7 (B1), Karn\_7 (B1), Keitherie\_7 (B1), Khan1\_7 (B1), Kikipoo\_7 (B1), Kimbrough\_7 (B1), KingTut\_7 (B1), KingVeVeVe\_7 (B1), KlimbOn\_7 (B1), Kloppinator\_7 (B1), Kwadwo\_7 (B1), Kwksand96\_7 (B1), Labeouficaum\_7 (B1), Larson\_8 (B1), LasagnaCat\_7 (B1), Lasso\_7 (B1), LeeLot\_7 (B1), Lego3393\_7 (B1), Legolas\_7 (B1), Lehmann\_8 (B1), LeiMonet\_7 (B1), LemonSlice\_7 (B1), LittleMinkey\_13 (B13), Longacauda\_7 (B1), Lopsy\_7 (B1), LostAndPhound\_7 (B1), LuckyMarjie\_7 (B1), Lulumae\_7 (B1), Lulwa\_7 (B1), Lumine\_7 (B1), MRabcd\_7 (B1), Mag7\_7 (B1), Magic8\_7 (B1), Mana\_7 (B1), Manad\_7 (B1), Maru\_7 (B1), Matalotodo\_7 (B1), Mcshane\_7 (B1), Mecca\_7 (B1), Megamind20\_8 (B1), Megatron\_7 (B1), Melc17\_7 (B1), MelsMeow\_7 (B1), Mesh1\_7 (B1), Mesmerelda\_7 (B1), MichaelPhcott\_7 (B1), Mikota\_7 (B1), MiniBoss\_7 (B1), MitKao\_7 (B1), Morgushi\_7 (B1), Morty\_7 (B1), Mosaic\_7 (B1), MrPhizzler\_7 (B1), Mulan\_7 (B1), Murdoc\_7 (B1), Mutante\_7 (B1), Nacho\_007 (B1), Nathan\_7 (B1), Newman\_7 (B1), Nicole21\_7 (B1), Numberten\_7 (B1), Nyala\_7 (B1), OSmaximus\_7

(B1), Olak\_7 (B1), Oline\_7 (B1), Olive\_7 (B1), OliverWalter\_7 (B1), Omniscient\_7 (B1), OneBrain\_7 (B1), Oosterbaan\_7 (B1), Orfeu\_7 (B1), Orion\_7 (B1), Orwigg\_7 (B1), PG1\_7 (B1), Pacifista\_7 (B1), PallasAthena\_8 (B1), Phamished\_7 (B1), Phareon\_7 (B1), PhatCats2014\_7 (B1), PhatLouie\_7 (B1), PhenghisKhan\_7 (B1), Pherdinand\_7 (B1), Phergie\_7 (B1), Phipps\_7 (B1), Phleuron\_7 (B1), PhrankReynolds\_7 (B1), PhrodoBaggins\_7 (B1), Phunky\_7 (B1), Piglet\_007 (B1), PinheadLarry\_7 (B1), Pinkman\_7 (B1), Pipsqueak\_7 (B1), Placalicious\_7 (B1), Plata\_7 (B1), Plmatters\_7 (B1), Podrick\_7 (B1), Pops\_7 (B1), Potter\_7 (B1), Prickles\_7 (B1), ProfessorX\_7 (B1), Puhltonio\_7 (B1), QueenBeane\_7 (B1), Quisquillae\_7 (B1), RedMaple\_7 (B1), RedRaider89\_8 (B1), Ricotta\_7 (B1), Riggan\_7 (B1), Rimu\_7 (B1), Riverton\_7 (B1), Robyn\_7 (B1), Roliet\_7 (B1), Roscoe\_8 (B1), Roy17\_7 (B1), SDcharge11\_7 (B1), SallyH\_8 (B1), Samaymay\_7 (B1), SassyCat97\_7 (B1), Schadenfreude\_7 (B1), Schueller\_7 (B1), Scoot17C\_7 (B1), Scrick\_7 (B1), Selr12\_7 (B1), Serendipity\_7 (B1), Serpentine\_007 (B1), ShadowBud\_8 (B1), Sheila\_7 (B1), ShiVal\_7 (B1), Sigman\_7 (B1), SilverBell\_7 (B1), Simielle\_7 (B1), SirBeauregard\_7 (B1), Skippy\_7 (B1), Slatt\_7 (B1), Soile\_7 (B1), Solosis\_7 (B1), Sophia\_7 (B1), Soto\_7 (B1), Spartan300\_7 (B1), Squid\_7 (B1), Squiggle\_7 (B1), Struggle\_7 (B1), Suffolk\_7 (B1), Surely\_7 (B1), Swiphy\_7 (B1), TallGrassMM\_7 (B1), Telesworld\_7 (B1), Thora\_7 (B1), ThreeOh3D2\_7 (B1), Thunderbird\_7 (B1), Timmi\_7 (B1), TomBombadil\_7 (B1), Tomlarah\_7 (B1), Toni\_7 (B1), TooFast2Furius\_9 (B1), Tooj\_7 (B1), Triad\_7 (B1), True\_7 (B1), Trypo\_7 (B1), TyrionL\_7 (B1), UAch1\_7 (B1), UncleHowie\_7 (B1), Usavi\_7 (B1), Vaishali24\_7 (B1), Valjean\_7 (B1), Vaticameos\_7 (B1), Veritas\_7 (B1), Virapocalypse\_7 (B1), Virgeve\_7 (B1), Vista\_7 (B1), Vivaldi\_7 (B1), Vortex\_7 (B1), Wallhey\_7 (B1), Waterdiva\_7 (B1), Weher20\_7 (B1), Windsor\_7 (B1), Xavier\_7 (B1), Yoshand\_7 (B1), YouGoGlencoco\_7 (B1), Zaider\_8 (B1), Zelda\_7 (B1), Zonia\_7 (B1),

#### Start 83:

- Found in 5 of 405 ( 1.2% ) of genes in pham
- Manual Annotations of this start: 5 of 345
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dori\_6 (AD), Mao1\_5 (AD), Mask\_6 (AD), PenguinLover67\_11 (B9), Sejanus\_6 (AD),

#### Start 84:

- Found in 1 of 405 ( 0.2% ) of genes in pham
- Manual Annotations of this start: 1 of 345
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thonko\_6 (B8),

#### Start 85:

- Found in 58 of 405 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 33 of 345
- Called 65.5% of time when present
- Phage (with cluster) where this start called: 39HC\_06 (B6), 40BC\_06 (B6), Apex\_7 (B4), Argie\_5 (W), BrownCNA\_9 (B4), Causa\_15 (AI), Cepens\_5 (W), ChrisnMich\_7 (B4), D12\_05 (W), Frederick\_8 (B4), GinPorsche\_7 (B4), GodPhather\_5 (W), Hangman\_8 (B4), Heath\_8 (B4), Hosp\_04 (B6), Hydro\_8 (B4), Indlovu\_8 (B11), Jeon\_5 (W), Jolie1\_06 (B6), KayaCho\_6 (B6), LittleDigger\_7 (B4), Lolalove\_8 (B4), Magpie\_8 (B4), Megabear\_5 (W), Mithril\_8 (B4), Mudslide\_8 (B4), Nigel\_6 (B4), PR\_05 (W), Prince\_8 (B4), Quesadilla\_10 (B9), RawrgerThat\_8 (B4), Saguario\_10 (B7), StAugustine\_13 (AI), Stinger\_6 (B4), Taptic\_5 (W), VioletZ\_8 (B4), Waleliano\_8 (B4), Zemanar\_9 (B4),

Start 87:

- Found in 2 of 405 ( 0.5% ) of genes in pham
- Manual Annotations of this start: 2 of 345
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Funsized\_13 (B9), Rinkes\_12 (B9),

Start 88:

- Found in 24 of 405 ( 5.9% ) of genes in pham
- Manual Annotations of this start: 13 of 345
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Acadian\_9 (B5), Bae\_9 (B5), DigitDog\_9 (B5), Donny\_9 (B5), EastView9101\_9 (B5), Imvubu\_4 (B10), KarasumaRum\_10 (B5), Knocker\_13 (B9), LilMcDreamy\_9 (B12), Mysterious\_9 (B5), Nangang\_9 (B5), Nehemiah\_8 (B5), Phelemich\_9 (B5), Reccee\_10 (B5), Reprobate\_9 (B5), Rich\_9 (B5), Rita130\_9 (B5), Serendipitous\_9 (B5), Shenyu\_9 (B5), SirJeffery\_9 (B5), StinkyVeggy\_10 (B5), Suigeneris\_9 (B5),

Start 90:

- Found in 41 of 405 ( 10.1% ) of genes in pham
- Manual Annotations of this start: 1 of 345
- Called 31.7% of time when present
- Phage (with cluster) where this start called: Ahwei\_7 (B4), AlanGrant\_9 (B4), Antihero\_7 (B4), Epah\_7 (B4), Fanaw\_8 (B4), Hally898\_7 (B4), JaguarMi\_9 (B4), Lambano\_7 (B4), Nanao\_7 (B4), Poster\_7 (B4), QueenPie\_8 (B4), Renkei\_7 (B4), Xincheng\_8 (B4),

Start 91:

- Found in 43 of 405 ( 10.6% ) of genes in pham
- Manual Annotations of this start: 2 of 345
- Called 4.7% of time when present
- Phage (with cluster) where this start called: Cooper\_8 (B4), JAMaL\_7 (B4),

### **Summary by clusters:**

There are 14 clusters represented in this pham: B10, A1, B4, B5, B6, B7, B12, B1, W, B11, AD, B8, B9, B13,

Info for manual annotations of cluster AD:

- Start number 83 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster A1:

- Start number 85 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster B1:

- Start number 43 was manually annotated 3 times for cluster B1.
- Start number 68 was manually annotated 7 times for cluster B1.
- Start number 82 was manually annotated 270 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 88 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 85 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 88 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 81 was manually annotated 1 time for cluster B13.
- Start number 82 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B4:

- Start number 75 was manually annotated 1 time for cluster B4.
- Start number 76 was manually annotated 1 time for cluster B4.
- Start number 79 was manually annotated 1 time for cluster B4.
- Start number 85 was manually annotated 19 times for cluster B4.
- Start number 90 was manually annotated 1 time for cluster B4.
- Start number 91 was manually annotated 2 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 88 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 80 was manually annotated 1 time for cluster B6.
- Start number 85 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 85 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 84 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 79 was manually annotated 1 time for cluster B9.
- Start number 83 was manually annotated 1 time for cluster B9.
- Start number 85 was manually annotated 1 time for cluster B9.
- Start number 87 was manually annotated 2 times for cluster B9.
- Start number 88 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster W:

- Start number 85 was manually annotated 8 times for cluster W.

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

Gene: 39HC\_06 Start: 4766, Stop: 5182, Start Num: 85

Candidate Starts for 39HC\_06:

(Start: 80 @4751 has 1 MA's), (Start: 85 @4766 has 33 MA's), (97, 4817), (99, 4826), (124, 4982), (129, 5018), (130, 5024), (151, 5102), (154, 5120), (155, 5123),

Gene: 40BC\_06 Start: 4766, Stop: 5182, Start Num: 85

Candidate Starts for 40BC\_06:

(Start: 80 @4751 has 1 MA's), (Start: 85 @4766 has 33 MA's), (97, 4817), (99, 4826), (124, 4982), (129, 5018), (130, 5024), (151, 5102), (154, 5120), (155, 5123),

Gene: ABU\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for ABU\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: AbsoluteMadLad\_7 Start: 3961, Stop: 4407, Start Num: 82

Candidate Starts for AbsoluteMadLad\_7:

(Start: 68 @3874 has 7 MA's), (Start: 82 @3961 has 272 MA's), (104, 4072), (126, 4198), (129, 4222), (133, 4249), (135, 4255), (137, 4261),

Gene: Acadian\_9 Start: 6265, Stop: 6666, Start Num: 88

Candidate Starts for Acadian\_9:

(Start: 88 @6265 has 13 MA's), (94, 6292), (97, 6304), (103, 6340), (109, 6388), (121, 6439), (125, 6472), (126, 6481), (129, 6505), (157, 6637), (158, 6643),

Gene: Adriana\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Adriana\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Aelin\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Aelin\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Ahwei\_7 Start: 5221, Stop: 5616, Start Num: 90

Candidate Starts for Ahwei\_7:

(Start: 85 @5203 has 33 MA's), (Start: 90 @5221 has 1 MA's), (Start: 91 @5227 has 2 MA's), (97, 5254), (111, 5344), (122, 5401), (123, 5404), (125, 5422), (126, 5431), (129, 5455), (133, 5482), (141, 5509), (151, 5539), (157, 5587),

Gene: AlanGrant\_9 Start: 7025, Stop: 7429, Start Num: 90

Candidate Starts for AlanGrant\_9:

(Start: 79 @6977 has 2 MA's), (Start: 85 @7007 has 33 MA's), (Start: 90 @7025 has 1 MA's), (113, 7160), (115, 7175), (129, 7259), (130, 7265), (135, 7292), (138, 7298), (145, 7316),

Gene: Aleia\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Aleia\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: AltPhacts\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for AltPhacts\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Altwerkus\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Altwerkus\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Anderson\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Anderson\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Andre\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Andre\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: AngelCake\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for AngelCake\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Antihero\_7 Start: 5221, Stop: 5616, Start Num: 90

Candidate Starts for Antihero\_7:

(Start: 85 @5203 has 33 MA's), (Start: 90 @5221 has 1 MA's), (Start: 91 @5227 has 2 MA's), (97, 5254), (111, 5344), (122, 5401), (123, 5404), (125, 5422), (126, 5431), (129, 5455), (133, 5482), (141, 5509), (151, 5539), (157, 5587),

Gene: Antonia\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Antonia\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Aonishiki\_8 Start: 3878, Stop: 4411, Start Num: 68

Candidate Starts for Aonishiki\_8:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Apex\_7 Start: 5846, Stop: 6265, Start Num: 85

Candidate Starts for Apex\_7:

(4, 5255), (6, 5312), (7, 5315), (8, 5318), (10, 5345), (12, 5351), (14, 5372), (15, 5381), (17, 5393), (20, 5417), (21, 5426), (23, 5438), (24, 5462), (25, 5507), (28, 5537), (36, 5588), (41, 5621), (42, 5627), (45, 5636), (51, 5657), (Start: 68 @5750 has 7 MA's), (71, 5765), (74, 5780), (Start: 75 @5786 has 1 MA's), (Start: 76 @5789 has 1 MA's), (Start: 85 @5846 has 33 MA's), (Start: 90 @5864 has 1 MA's), (Start: 91 @5870 has 2 MA's), (92, 5876), (97, 5897), (103, 5933), (111, 5987), (129, 6098), (130, 6104), (133, 6125), (141, 6152), (149, 6170), (153, 6194), (154, 6200),

Gene: Apizium\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Apizium\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Argie\_5 Start: 2882, Stop: 3286, Start Num: 85

Candidate Starts for Argie\_5:

(Start: 85 @2882 has 33 MA's), (89, 2897), (94, 2921), (101, 2951), (116, 3044), (130, 3128), (133, 3149), (137, 3161), (147, 3185), (157, 3251),

Gene: Ashraf\_7 Start: 3764, Stop: 4408, Start Num: 43

Candidate Starts for Ashraf\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129,

4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Austelle\_8 Start: 6242, Stop: 6721, Start Num: 75

Candidate Starts for Austelle\_8:

(4, 5732), (5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (19, 5879), (20, 5894), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (41, 6095), (42, 6101), (51, 6131), (52, 6137), (53, 6146), (66, 6191), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245 has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (129, 6554), (130, 6560), (133, 6581), (141, 6608), (149, 6626), (153, 6650), (154, 6656),

Gene: Badfish\_7 Start: 3878, Stop: 4411, Start Num: 68

Candidate Starts for Badfish\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Bae\_9 Start: 6271, Stop: 6672, Start Num: 88

Candidate Starts for Bae\_9:

(Start: 88 @6271 has 13 MA's), (94, 6298), (103, 6346), (109, 6394), (121, 6445), (125, 6478), (126, 6487), (129, 6511), (136, 6547), (158, 6649),

Gene: Banjo\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Banjo\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Basato\_8 Start: 4199, Stop: 4645, Start Num: 82

Candidate Starts for Basato\_8:

(Start: 68 @4112 has 7 MA's), (71, 4127), (Start: 82 @4199 has 272 MA's), (104, 4310), (126, 4436), (129, 4460), (133, 4487), (135, 4493), (137, 4499), (154, 4574),

Gene: BatteryCK\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for BatteryCK\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Beaglebox\_7 Start: 3878, Stop: 4411, Start Num: 68

Candidate Starts for Beaglebox\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: BirdsNest\_11 Start: 4695, Stop: 5120, Start Num: 82

Candidate Starts for BirdsNest\_11:

(49, 4506), (51, 4515), (70, 4617), (Start: 82 @4695 has 272 MA's), (94, 4740), (106, 4821), (119, 4884), (133, 4980), (147, 5016), (149, 5025), (154, 5055),

Gene: Bishoperium\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Bishoperium\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: BlackStallion\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for BlackStallion\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: BlackSBerry\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for BlackSBerry\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: BlueHusk\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for BlueHusk\_7:

(67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (134, 4253), (135, 4256), (137, 4262), (154, 4337),

Gene: Bluephacebaby\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Bluephacebaby\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: BobbyK\_8 Start: 6242, Stop: 6718, Start Num: 76

Candidate Starts for BobbyK\_8:

(5, 5771), (6, 5786), (7, 5789), (10, 5819), (14, 5846), (15, 5855), (16, 5861), (17, 5867), (20, 5891), (25, 5981), (27, 6005), (29, 6017), (39, 6083), (42, 6098), (51, 6128), (52, 6134), (53, 6143), (61, 6161), (Start: 68 @6203 has 7 MA's), (71, 6218), (74, 6233), (Start: 75 @6239 has 1 MA's), (Start: 76 @6242 has 1 MA's), (Start: 85 @6299 has 33 MA's), (Start: 90 @6317 has 1 MA's), (Start: 91 @6323 has 2 MA's), (92, 6329), (97, 6350), (103, 6386), (111, 6440), (129, 6551), (130, 6557), (133, 6578), (141, 6605), (149, 6623), (153, 6647), (154, 6653),

Gene: Boehler\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Boehler\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: BoogieWoogie\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for BoogieWoogie\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Brilliant\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Brilliant\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: BrownCNA\_9 Start: 6553, Stop: 6972, Start Num: 85

Candidate Starts for BrownCNA\_9:

(72, 6481), (Start: 85 @6553 has 33 MA's), (Start: 90 @6571 has 1 MA's), (Start: 91 @6577 has 2 MA's), (92, 6583), (97, 6604), (103, 6640), (111, 6694), (129, 6805), (130, 6811), (141, 6859), (149, 6877), (153, 6901), (154, 6907),

Gene: Buckeye\_7 Start: 3967, Stop: 4413, Start Num: 82

Candidate Starts for Buckeye\_7:

(65, 3853), (70, 3889), (Start: 82 @3967 has 272 MA's), (104, 4078), (126, 4204), (129, 4228), (133, 4255), (135, 4261), (137, 4267),

Gene: Burr\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Burr\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: CRB2\_10 Start: 6980, Stop: 7420, Start Num: 79

Candidate Starts for CRB2\_10:

(Start: 79 @6980 has 2 MA's), (Start: 90 @7025 has 1 MA's), (97, 7058), (124, 7223), (128, 7253), (129, 7259), (130, 7265), (141, 7313), (153, 7355),

Gene: CamL\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for CamL\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: CampRoach\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for CampRoach\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262),

Gene: Cannibal\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Cannibal\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Carthage\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Carthage\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: Caspiboi\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Caspiboi\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Causa\_15 Start: 8967, Stop: 9377, Start Num: 85

Candidate Starts for Causa\_15:

(9, 8490), (11, 8517), (14, 8541), (18, 8556), (19, 8562), (22, 8595), (26, 8676), (33, 8724), (35, 8742), (Start: 43 @8784 has 3 MA's), (50, 8808), (57, 8838), (Start: 75 @8910 has 1 MA's), (77, 8925), (Start: 85 @8967 has 33 MA's), (97, 9018), (120, 9150), (128, 9213), (129, 9219), (139, 9267),

Gene: Cepens\_5 Start: 2882, Stop: 3286, Start Num: 85

Candidate Starts for Cepens\_5:

(Start: 85 @2882 has 33 MA's), (89, 2897), (94, 2921), (101, 2951), (116, 3044), (130, 3128), (137, 3161), (147, 3185), (148, 3191), (157, 3251),

Gene: Chaelin\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Chaelin\_7:

(40, 3750), (Start: 43 @3765 has 3 MA's), (48, 3780), (50, 3789), (54, 3810), (67, 3870), (Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (94, 4011), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (134, 4254), (135, 4257), (137, 4263), (154, 4338),

Gene: Chah\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Chah\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Charles1\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Charles1\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: CharlieGBrown\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for CharlieGBrown\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: CheetO\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for CheetO\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Cher\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Cher\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Childish\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Childish\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Chipette\_9 Start: 4200, Stop: 4646, Start Num: 82

Candidate Starts for Chipette\_9:

(Start: 68 @4113 has 7 MA's), (Start: 82 @4200 has 272 MA's), (104, 4311), (126, 4437), (129, 4461), (133, 4488), (135, 4494), (137, 4500), (154, 4575),

Gene: Chorkpop\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Chorkpop\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: ChrisnMich\_7 Start: 5203, Stop: 5616, Start Num: 85

Candidate Starts for ChrisnMich\_7:

(Start: 85 @5203 has 33 MA's), (Start: 90 @5221 has 1 MA's), (Start: 91 @5227 has 2 MA's), (97, 5254), (111, 5344), (122, 5401), (123, 5404), (125, 5422), (126, 5431), (129, 5455), (130, 5461), (133, 5482), (141, 5509), (151, 5539), (157, 5587),

Gene: Chuni\_7 Start: 3765, Stop: 4409, Start Num: 43

Candidate Starts for Chuni\_7:

(40, 3750), (Start: 43 @3765 has 3 MA's), (48, 3780), (50, 3789), (54, 3810), (67, 3870), (Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (94, 4011), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (134, 4254), (135, 4257), (137, 4263), (154, 4338),

Gene: Chunky\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Chunky\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Chute\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Chute\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Cobra\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Cobra\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Colbert\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Colbert\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Coletti\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Coletti\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Cooper\_8 Start: 5288, Stop: 5677, Start Num: 91

Candidate Starts for Cooper\_8:

(78, 5225), (Start: 85 @5264 has 33 MA's), (Start: 90 @5282 has 1 MA's), (Start: 91 @5288 has 2 MA's), (97, 5315), (100, 5330), (112, 5408), (120, 5447), (125, 5483), (129, 5516), (133, 5543), (141, 5570), (151, 5600),

Gene: Cornbread\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Cornbread\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Cornobble\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Cornobble\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Cosmolli16\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Cosmolli16\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263),

Gene: Craff\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Craff\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Crownjwl\_8 Start: 4200, Stop: 4646, Start Num: 82

Candidate Starts for Crownjwl\_8:

(40, 3987), (Start: 43 @4002 has 3 MA's), (48, 4017), (50, 4026), (54, 4047), (67, 4107), (Start: 68 @4113 has 7 MA's), (Start: 82 @4200 has 272 MA's), (94, 4248), (104, 4311), (126, 4437), (129, 4461), (133, 4488), (134, 4491), (135, 4494), (137, 4500), (154, 4575),

Gene: D12\_05 Start: 2882, Stop: 3286, Start Num: 85

Candidate Starts for D12\_05:

(Start: 85 @2882 has 33 MA's), (89, 2897), (94, 2921), (101, 2951), (116, 3044), (130, 3128), (137, 3161), (147, 3185), (148, 3191), (157, 3251),

Gene: DaddyDaniels\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for DaddyDaniels\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Daffy\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Daffy\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Daka\_7 Start: 3968, Stop: 4414, Start Num: 82

Candidate Starts for Daka\_7:

(Start: 68 @3881 has 7 MA's), (Start: 82 @3968 has 272 MA's), (104, 4079), (126, 4205), (129, 4229), (133, 4256), (135, 4262), (137, 4268),

Gene: Dati\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Dati\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: DelRivs\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for DelRivs\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (135, 4258), (137, 4264), (154, 4339),

Gene: Derpp\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Derpp\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Dice\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Dice\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (135, 4258), (137, 4264), (154, 4339),

Gene: DigitDog\_9 Start: 6253, Stop: 6675, Start Num: 88

Candidate Starts for DigitDog\_9:

(Start: 88 @6253 has 13 MA's), (94, 6280), (98, 6298), (109, 6376), (120, 6424), (125, 6460), (126, 6469), (129, 6493), (135, 6526), (143, 6565), (145, 6571), (158, 6652),

Gene: Dingo\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Dingo\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (134, 4253), (135, 4256), (137, 4262), (154, 4337),

Gene: Dione\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Dione\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: DirtJuice\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for DirtJuice\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Doddsville\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Doddsville\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: DoesntMatter\_7 Start: 3875, Stop: 4408, Start Num: 68

Candidate Starts for DoesntMatter\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: DolOn\_9 Start: 4200, Stop: 4646, Start Num: 82

Candidate Starts for DolOn\_9:

(Start: 68 @4113 has 7 MA's), (Start: 82 @4200 has 272 MA's), (104, 4311), (126, 4437), (129, 4461), (133, 4488), (134, 4491), (135, 4494), (137, 4500), (154, 4575),

Gene: DonSanchon\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for DonSanchon\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Donny\_9 Start: 6267, Stop: 6668, Start Num: 88

Candidate Starts for Donny\_9:

(Start: 88 @6267 has 13 MA's), (94, 6294), (97, 6306), (103, 6342), (109, 6390), (121, 6441), (125, 6474), (126, 6483), (129, 6507), (157, 6639), (158, 6645),

Gene: Dori\_6 Start: 3274, Stop: 3681, Start Num: 83

Candidate Starts for Dori\_6:

(59, 3136), (63, 3145), (Start: 83 @3274 has 5 MA's), (94, 3319), (98, 3337), (100, 3346), (102, 3364), (103, 3367), (105, 3388), (108, 3412), (120, 3463), (124, 3496), (126, 3508), (132, 3556), (135, 3565), (137, 3571), (156, 3646),

Gene: DuchessDung\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for DuchessDung\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129,

4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Duggie\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Duggie\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Durga\_7 Start: 3961, Stop: 4407, Start Num: 82

Candidate Starts for Durga\_7:

(Start: 68 @3874 has 7 MA's), (Start: 82 @3961 has 272 MA's), (94, 4009), (126, 4198), (129, 4222), (133, 4249), (134, 4252), (135, 4255), (137, 4261), (154, 4336),

Gene: EastView9101\_9 Start: 6267, Stop: 6668, Start Num: 88

Candidate Starts for EastView9101\_9:

(Start: 88 @6267 has 13 MA's), (94, 6294), (97, 6306), (103, 6342), (109, 6390), (121, 6441), (125, 6474), (126, 6483), (129, 6507), (157, 6639), (158, 6645),

Gene: ElvisPhasley\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for ElvisPhasley\_7:

(40, 3753), (Start: 43 @3768 has 3 MA's), (48, 3783), (50, 3792), (54, 3813), (67, 3873), (Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (94, 4014), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Emiris\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Emiris\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: EmpTee\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for EmpTee\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: Epah\_7 Start: 5221, Stop: 5616, Start Num: 90

Candidate Starts for Epah\_7:

(Start: 85 @5203 has 33 MA's), (Start: 90 @5221 has 1 MA's), (Start: 91 @5227 has 2 MA's), (97, 5254), (111, 5344), (122, 5401), (123, 5404), (125, 5422), (126, 5431), (129, 5455), (133, 5482), (141, 5509), (151, 5539), (157, 5587),

Gene: Eremos\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Eremos\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Etaye\_7 Start: 3875, Stop: 4408, Start Num: 68

Candidate Starts for Etaye\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Eugenia\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Eugenia\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: Fanaw\_8 Start: 6320, Stop: 6721, Start Num: 90

Candidate Starts for Fanaw\_8:

(5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (20, 5894), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (51, 6131), (52, 6137), (53, 6146), (66, 6191), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245 has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (129, 6554), (130, 6560), (133, 6581), (141, 6608), (149, 6626), (153, 6650), (154, 6656),

Gene: Fang\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Fang\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Flake\_8 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Flake\_8:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (135, 4258), (137, 4264), (154, 4339),

Gene: FleetyMac\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for FleetyMac\_7:

(40, 3750), (Start: 43 @3765 has 3 MA's), (48, 3780), (50, 3789), (54, 3810), (67, 3870), (Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (94, 4011), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: FluffyNinja\_7 Start: 3876, Stop: 4409, Start Num: 68

Candidate Starts for FluffyNinja\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: ForDig\_6 Start: 4751, Stop: 5182, Start Num: 80

Candidate Starts for ForDig\_6:

(Start: 80 @4751 has 1 MA's), (Start: 85 @4766 has 33 MA's), (97, 4817), (99, 4826), (124, 4982), (128, 5012), (129, 5018), (151, 5102), (153, 5114), (154, 5120), (155, 5123),

Gene: Fozzie\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Fozzie\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (134, 4254), (135, 4257), (137, 4263), (154, 4338),

Gene: Frankicide\_7 Start: 3967, Stop: 4413, Start Num: 82

Candidate Starts for Frankicide\_7:

(Start: 68 @3880 has 7 MA's), (Start: 82 @3967 has 272 MA's), (104, 4078), (126, 4204), (129, 4228), (133, 4255), (135, 4261), (137, 4267),

Gene: Frederick\_8 Start: 6302, Stop: 6721, Start Num: 85

Candidate Starts for Frederick\_8:

(5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (20, 5894), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (42, 6101), (51, 6131), (52, 6137), (53, 6146), (61, 6164), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245

has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (129, 6554), (130, 6560), (133, 6581), (141, 6608), (149, 6626), (153, 6650), (154, 6656),

Gene: FremontTroll\_8 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for FremontTroll\_8:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Freya\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Freya\_7:

(40, 3753), (Start: 43 @3768 has 3 MA's), (48, 3783), (50, 3792), (54, 3813), (67, 3873), (Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (94, 4014), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: FriarPreacher\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for FriarPreacher\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Fringe\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Fringe\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: FugateOSU\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for FugateOSU\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Funsized\_13 Start: 8281, Stop: 8709, Start Num: 87

Candidate Starts for Funsized\_13:

(Start: 87 @8281 has 2 MA's), (Start: 88 @8287 has 13 MA's), (93, 8308), (126, 8506), (129, 8530), (135, 8563), (136, 8566), (144, 8605), (145, 8608), (154, 8653),

Gene: Gareth\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Gareth\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: GeneCoco\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for GeneCoco\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: GinPorsche\_7 Start: 5203, Stop: 5616, Start Num: 85

Candidate Starts for GinPorsche\_7:

(Start: 85 @5203 has 33 MA's), (Start: 90 @5221 has 1 MA's), (Start: 91 @5227 has 2 MA's), (97, 5254), (111, 5344), (122, 5401), (123, 5404), (125, 5422), (126, 5431), (129, 5455), (133, 5482), (141, 5509), (151, 5539), (157, 5587),

Gene: Giraffe\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Giraffe\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: GodPhather\_5 Start: 2882, Stop: 3286, Start Num: 85

Candidate Starts for GodPhather\_5:

(Start: 85 @2882 has 33 MA's), (94, 2921), (101, 2951), (116, 3044), (130, 3128), (133, 3149), (137, 3161), (147, 3185), (157, 3251),

Gene: Gophee\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Gophee\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Grand2040\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Grand2040\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263),

Gene: GreenChile\_8 Start: 3967, Stop: 4413, Start Num: 82

Candidate Starts for GreenChile\_8:

(Start: 68 @3880 has 7 MA's), (Start: 82 @3967 has 272 MA's), (104, 4078), (126, 4204), (129, 4228), (133, 4255), (135, 4261), (137, 4267),

Gene: Gwennie1\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Gwennie1\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Gwilliam\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Gwilliam\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262),

Gene: Gyarad\_007 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Gyarad\_007:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: HSavage\_7 Start: 3967, Stop: 4413, Start Num: 82

Candidate Starts for HSavage\_7:

(Start: 68 @3880 has 7 MA's), (Start: 82 @3967 has 272 MA's), (104, 4078), (126, 4204), (129, 4228), (133, 4255), (135, 4261), (137, 4267),

Gene: Haimas\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Haimas\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Haleema\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Haleema\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Hally898\_7 Start: 5221, Stop: 5616, Start Num: 90

Candidate Starts for Hally898\_7:

(Start: 85 @5203 has 33 MA's), (Start: 90 @5221 has 1 MA's), (Start: 91 @5227 has 2 MA's), (97, 5254), (111, 5344), (122, 5401), (123, 5404), (125, 5422), (126, 5431), (129, 5455), (133, 5482), (141, 5509), (151, 5539), (157, 5587),

Gene: Hamish\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Hamish\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Hangman\_8 Start: 6302, Stop: 6721, Start Num: 85

Candidate Starts for Hangman\_8:

(5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (20, 5894), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (51, 6131), (52, 6137), (53, 6146), (61, 6164), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245 has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (129, 6554), (130, 6560), (133, 6581), (141, 6608), (149, 6626), (153, 6650), (154, 6656),

Gene: Happabalu\_7 Start: 3961, Stop: 4407, Start Num: 82

Candidate Starts for Happabalu\_7:

(Start: 68 @3874 has 7 MA's), (Start: 82 @3961 has 272 MA's), (94, 4009), (126, 4198), (129, 4222), (133, 4249), (134, 4252), (135, 4255), (137, 4261), (154, 4336),

Gene: Hartsy\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Hartsy\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Harvey\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Harvey\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (94, 4014), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Hashim76\_12 Start: 5115, Stop: 5540, Start Num: 82

Candidate Starts for Hashim76\_12:

(70, 5037), (Start: 82 @5115 has 272 MA's), (94, 5160), (119, 5304), (133, 5400),

Gene: Heath\_8 Start: 6302, Stop: 6721, Start Num: 85

Candidate Starts for Heath\_8:

(5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (20, 5894), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (42, 6101), (51, 6131), (52, 6137), (53, 6146), (61, 6164), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245 has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (129, 6554), (130, 6560), (133, 6581), (141, 6608), (149, 6626), (153, 6650), (154, 6656),

Gene: Hekos\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Hekos\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (135, 4258), (137, 4264),

Gene: Held\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Held\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: HenryJackson\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for HenryJackson\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Hertubise\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Hertubise\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Hetaeria\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Hetaeria\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: HighStump\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for HighStump\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Hocus\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Hocus\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: HogWash\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for HogWash\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (126, 4199), (129, 4223), (133, 4250), (134, 4253), (135, 4256), (137, 4262), (154, 4337),

Gene: Horchata\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Horchata\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (135, 4258), (137, 4264), (154, 4339),

Gene: Hosp\_04 Start: 2968, Stop: 3384, Start Num: 85

Candidate Starts for Hosp\_04:

(Start: 80 @2953 has 1 MA's), (Start: 85 @2968 has 33 MA's), (97, 3019), (99, 3028), (124, 3184), (128, 3214), (129, 3220), (130, 3226), (151, 3304), (154, 3322), (155, 3325),

Gene: Hydro\_8 Start: 6299, Stop: 6718, Start Num: 85

Candidate Starts for Hydro\_8:

(5, 5771), (6, 5786), (7, 5789), (10, 5819), (14, 5846), (15, 5855), (16, 5861), (17, 5867), (20, 5891), (25, 5981), (27, 6005), (29, 6017), (39, 6083), (42, 6098), (51, 6128), (52, 6134), (53, 6143), (61, 6161), (Start: 68 @6203 has 7 MA's), (71, 6218), (74, 6233), (Start: 75 @6239 has 1 MA's), (Start: 76 @6242 has 1 MA's), (Start: 85 @6299 has 33 MA's), (Start: 90 @6317 has 1 MA's), (Start: 91 @6323 has 2 MA's), (92, 6329), (97, 6350), (103, 6386), (111, 6440), (129, 6551), (130, 6557), (133, 6578), (141,

6605), (149, 6623), (153, 6647), (154, 6653),

Gene: ImtiyazSitla\_7 Start: 3764, Stop: 4408, Start Num: 43

Candidate Starts for ImtiyazSitla\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Imvubu\_4 Start: 3089, Stop: 3511, Start Num: 88

Candidate Starts for Imvubu\_4:

(Start: 88 @3089 has 13 MA's), (105, 3185), (118, 3257), (125, 3296), (129, 3329), (135, 3362), (144, 3404), (145, 3407), (154, 3452),

Gene: Inchworm\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Inchworm\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Indlovu\_8 Start: 5946, Stop: 6359, Start Num: 85

Candidate Starts for Indlovu\_8:

(1, 4827), (2, 5040), (3, 5112), (13, 5490), (Start: 82 @5937 has 272 MA's), (Start: 85 @5946 has 33 MA's), (Start: 90 @5964 has 1 MA's), (96, 5994), (97, 5997), (124, 6162), (128, 6192), (129, 6198), (133, 6225), (141, 6252), (149, 6270),

Gene: Inverness\_7 Start: 3967, Stop: 4413, Start Num: 82

Candidate Starts for Inverness\_7:

(Start: 68 @3880 has 7 MA's), (Start: 82 @3967 has 272 MA's), (104, 4078), (126, 4204), (129, 4228), (133, 4255), (135, 4261), (137, 4267),

Gene: Iridessa\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Iridessa\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Iridoclysis\_7 Start: 3969, Stop: 4415, Start Num: 82

Candidate Starts for Iridoclysis\_7:

(Start: 68 @3882 has 7 MA's), (Start: 82 @3969 has 272 MA's), (104, 4080), (126, 4206), (129, 4230), (133, 4257), (135, 4263), (137, 4269), (154, 4344),

Gene: IsaacEli\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for IsaacEli\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: JAMaL\_7 Start: 5846, Stop: 6244, Start Num: 91

Candidate Starts for JAMaL\_7:

(Start: 85 @5822 has 33 MA's), (Start: 90 @5840 has 1 MA's), (Start: 91 @5846 has 2 MA's), (97, 5873), (111, 5963), (117, 5993), (122, 6020), (123, 6023), (125, 6041), (129, 6074), (141, 6128), (157, 6206),

Gene: JDog\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for JDog\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: JacAttac\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for JacAttac\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: JaguarMi\_9 Start: 6144, Stop: 6545, Start Num: 90

Candidate Starts for JaguarMi\_9:

(73, 6057), (Start: 75 @6066 has 1 MA's), (Start: 76 @6069 has 1 MA's), (Start: 85 @6126 has 33 MA's), (Start: 90 @6144 has 1 MA's), (Start: 91 @6150 has 2 MA's), (92, 6156), (97, 6177), (103, 6213), (111, 6267), (129, 6378), (130, 6384), (133, 6405), (141, 6432), (153, 6474), (154, 6480),

Gene: JakeO\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for JakeO\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: JangoPhett\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for JangoPhett\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263),

Gene: Jeon\_5 Start: 2882, Stop: 3286, Start Num: 85

Candidate Starts for Jeon\_5:

(Start: 85 @2882 has 33 MA's), (94, 2921), (101, 2951), (116, 3044), (130, 3128), (133, 3149), (137, 3161), (147, 3185), (157, 3251),

Gene: Jesabah\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Jesabah\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (94, 4014), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Jillium\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Jillium\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Jiminy\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Jiminy\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Jiraiya\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Jiraiya\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Jolie1\_06 Start: 4766, Stop: 5182, Start Num: 85

Candidate Starts for Jolie1\_06:

(Start: 80 @4751 has 1 MA's), (Start: 85 @4766 has 33 MA's), (97, 4817), (99, 4826), (124, 4982), (128, 5012), (129, 5018), (151, 5102), (153, 5114), (154, 5120), (155, 5123),

Gene: JoyceMaria\_8 Start: 6242, Stop: 6721, Start Num: 75

Candidate Starts for JoyceMaria\_8:

(5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (20, 5894), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (51, 6131), (52, 6137), (53, 6146), (61, 6164), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245 has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (129, 6554), (130, 6560), (133, 6581), (141, 6608), (149, 6626), (153, 6650), (154, 6656),

Gene: KLucky39\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for KLucky39\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Kahve\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Kahve\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Kailash\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Kailash\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: KarasumaRum\_10 Start: 6414, Stop: 6836, Start Num: 88

Candidate Starts for KarasumaRum\_10:

(Start: 88 @6414 has 13 MA's), (93, 6435), (94, 6441), (98, 6459), (109, 6537), (120, 6585), (125, 6621), (126, 6630), (129, 6654), (135, 6687), (143, 6726), (145, 6732), (158, 6813),

Gene: Karn\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Karn\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Katniss\_7 Start: 3879, Stop: 4412, Start Num: 68

Candidate Starts for Katniss\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: KayaCho\_6 Start: 4769, Stop: 5185, Start Num: 85

Candidate Starts for KayaCho\_6:

(Start: 80 @4754 has 1 MA's), (Start: 85 @4769 has 33 MA's), (96, 4817), (97, 4820), (99, 4829), (124, 4985), (126, 4997), (128, 5015), (129, 5021), (130, 5027), (151, 5105), (153, 5117), (154, 5123), (155, 5126),

Gene: Keitherie\_7 Start: 3961, Stop: 4407, Start Num: 82

Candidate Starts for Keitherie\_7:

(Start: 68 @3874 has 7 MA's), (Start: 82 @3961 has 272 MA's), (104, 4072), (126, 4198), (129, 4222), (133, 4249), (135, 4255), (137, 4261), (154, 4336),

Gene: Khan1\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Khan1\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Kikipoo\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Kikipoo\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Kimbrough\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Kimbrough\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: KingTut\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for KingTut\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: KingVeVeVe\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for KingVeVeVe\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (94, 4014), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (134, 4257), (135, 4260), (137, 4266), (154, 4341),

Gene: KlimbOn\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for KlimbOn\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Kloppinator\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Kloppinator\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Knocker\_13 Start: 8739, Stop: 9161, Start Num: 88

Candidate Starts for Knocker\_13:

(Start: 88 @8739 has 13 MA's), (Start: 91 @8751 has 2 MA's), (93, 8760), (94, 8766), (95, 8769), (105, 8835), (107, 8850), (118, 8907), (125, 8946), (129, 8979), (131, 8991), (135, 9012), (142, 9048), (145, 9057), (146, 9060), (150, 9075), (152, 9093), (154, 9102),

Gene: Kwadwo\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Kwadwo\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Kwksand96\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Kwksand96\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (134, 4253), (135, 4256), (137, 4262), (154, 4337),

Gene: Labeouficaum\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Labeouficaum\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Lambano\_7 Start: 5221, Stop: 5616, Start Num: 90

Candidate Starts for Lambano\_7:

(Start: 85 @5203 has 33 MA's), (Start: 90 @5221 has 1 MA's), (Start: 91 @5227 has 2 MA's), (97, 5254), (111, 5344), (122, 5401), (123, 5404), (125, 5422), (126, 5431), (129, 5455), (133, 5482), (141, 5509), (151, 5539), (157, 5587),

Gene: Larson\_8 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Larson\_8:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (135, 4258), (137, 4264), (154, 4339),

Gene: LasagnaCat\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for LasagnaCat\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Lasso\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Lasso\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: LeeLot\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for LeeLot\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Lego3393\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Lego3393\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Legolas\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Legolas\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Lehmann\_8 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Lehmann\_8:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: LeiMonet\_7 Start: 3961, Stop: 4407, Start Num: 82

Candidate Starts for LeiMonet\_7:

(Start: 68 @3874 has 7 MA's), (Start: 82 @3961 has 272 MA's), (94, 4009), (126, 4198), (129, 4222), (133, 4249), (134, 4252), (135, 4255), (137, 4261), (154, 4336),

Gene: LemonSlice\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for LemonSlice\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: LilMcDreamy\_9 Start: 7042, Stop: 7443, Start Num: 88

Candidate Starts for LilMcDreamy\_9:

(6, 6490), (34, 6757), (37, 6775), (86, 7033), (Start: 88 @7042 has 13 MA's), (Start: 91 @7054 has 2 MA's), (94, 7069), (97, 7081), (109, 7165), (117, 7201), (129, 7282), (135, 7315), (137, 7321), (152, 7375),

Gene: LittleDigger\_7 Start: 5204, Stop: 5617, Start Num: 85

Candidate Starts for LittleDigger\_7:

(Start: 85 @5204 has 33 MA's), (Start: 90 @5222 has 1 MA's), (Start: 91 @5228 has 2 MA's), (97, 5255), (111, 5345), (122, 5402), (123, 5405), (125, 5423), (126, 5432), (129, 5456), (133, 5483), (151, 5540), (157, 5588),

Gene: LittleMinkey\_13 Start: 5315, Stop: 5740, Start Num: 82

Candidate Starts for LittleMinkey\_13:

(Start: 82 @5315 has 272 MA's), (94, 5360), (133, 5600), (147, 5636), (149, 5645), (154, 5675),

Gene: Lolalove\_8 Start: 6299, Stop: 6718, Start Num: 85

Candidate Starts for Lolalove\_8:

(5, 5771), (6, 5786), (7, 5789), (10, 5819), (14, 5846), (15, 5855), (16, 5861), (17, 5867), (20, 5891), (25, 5981), (27, 6005), (29, 6017), (39, 6083), (42, 6098), (51, 6128), (52, 6134), (53, 6143), (61, 6161), (Start: 68 @6203 has 7 MA's), (71, 6218), (74, 6233), (Start: 75 @6239 has 1 MA's), (Start: 76 @6242 has 1 MA's), (Start: 85 @6299 has 33 MA's), (Start: 90 @6317 has 1 MA's), (Start: 91 @6323 has 2 MA's), (92, 6329), (97, 6350), (103, 6386), (111, 6440), (129, 6551), (130, 6557), (133, 6578), (141, 6605), (149, 6623), (153, 6647), (154, 6653),

Gene: Longacauda\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Longacauda\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Lopsy\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Lopsy\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: LostAndPhound\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for LostAndPhound\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: LuckyMarjie\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for LuckyMarjie\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Lulumae\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Lulumae\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: Lulwa\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Lulwa\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Lumine\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Lumine\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: MRabcd\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for MRabcd\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Mag7\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Mag7\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Magic8\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Magic8\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Magpie\_8 Start: 6457, Stop: 6876, Start Num: 85

Candidate Starts for Magpie\_8:

(73, 6388), (Start: 75 @6397 has 1 MA's), (Start: 76 @6400 has 1 MA's), (Start: 85 @6457 has 33 MA's), (Start: 90 @6475 has 1 MA's), (Start: 91 @6481 has 2 MA's), (92, 6487), (97, 6508), (103, 6544), (111, 6598), (129, 6709), (130, 6715), (133, 6736), (141, 6763), (149, 6781), (153, 6805), (154, 6811),

Gene: Mana\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Mana\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Manad\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Manad\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Mao1\_5 Start: 3670, Stop: 4077, Start Num: 83

Candidate Starts for Mao1\_5:

(78, 3637), (Start: 83 @3670 has 5 MA's), (94, 3715), (98, 3733), (100, 3742), (102, 3760), (103, 3763), (104, 3778), (123, 3877), (124, 3892), (127, 3907), (132, 3952), (135, 3961), (137, 3967), (156, 4042),

Gene: Maru\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Maru\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263),

Gene: Mask\_6 Start: 3671, Stop: 4078, Start Num: 83

Candidate Starts for Mask\_6:

(78, 3638), (Start: 83 @3671 has 5 MA's), (94, 3716), (98, 3734), (100, 3743), (102, 3761), (103, 3764), (104, 3779), (123, 3878), (124, 3893), (127, 3908), (132, 3953), (135, 3962), (137, 3968), (156, 4043),

Gene: Maskar\_7 Start: 3764, Stop: 4408, Start Num: 43

Candidate Starts for Maskar\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Matalotodo\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Matalotodo\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: Mcshane\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Mcshane\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Mecca\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Mecca\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Megabear\_5 Start: 2882, Stop: 3286, Start Num: 85

Candidate Starts for Megabear\_5:

(Start: 85 @2882 has 33 MA's), (89, 2897), (94, 2921), (101, 2951), (116, 3044), (130, 3128), (137, 3161), (147, 3185), (148, 3191), (157, 3251),

Gene: Megamind20\_8 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Megamind20\_8:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Megatron\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Megatron\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Melc17\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Melc17\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (134, 4253), (135, 4256), (137, 4262), (154, 4337),

Gene: MelsMeow\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for MelsMeow\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (134, 4253), (135, 4256), (137, 4262), (154, 4337),

Gene: Mesh1\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Mesh1\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Mesmerelda\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Mesmerelda\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: MichaelPhcott\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for MichaelPhcott\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Mikota\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Mikota\_7:

(40, 3750), (Start: 43 @3765 has 3 MA's), (48, 3780), (50, 3789), (54, 3810), (67, 3870), (Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (134, 4254), (135, 4257), (137, 4263), (154, 4338),

Gene: MiniBoss\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for MiniBoss\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: MitKao\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for MitKao\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Mithril\_8 Start: 6302, Stop: 6721, Start Num: 85

Candidate Starts for Mithril\_8:

(5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (19, 5879), (20, 5894), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (42, 6101), (51, 6131), (52, 6137), (53, 6146), (66, 6191), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245 has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (123, 6503), (129, 6554), (130, 6560), (133, 6581), (141, 6608), (149, 6626), (153, 6650), (154, 6656),

Gene: Morgushi\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Morgushi\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (154, 4338),

Gene: Morty\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Morty\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Mosaic\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Mosaic\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: MrPhizzler\_7 Start: 3961, Stop: 4407, Start Num: 82

Candidate Starts for MrPhizzler\_7:

(Start: 68 @3874 has 7 MA's), (Start: 82 @3961 has 272 MA's), (94, 4009), (126, 4198), (129, 4222), (133, 4249), (134, 4252), (135, 4255), (137, 4261), (154, 4336),

Gene: Mudslide\_8 Start: 6550, Stop: 6969, Start Num: 85

Candidate Starts for Mudslide\_8:

(72, 6478), (Start: 85 @6550 has 33 MA's), (Start: 90 @6568 has 1 MA's), (Start: 91 @6574 has 2 MA's), (92, 6580), (97, 6601), (103, 6637), (111, 6691), (129, 6802), (130, 6808), (133, 6829), (141, 6856), (149, 6874), (153, 6898), (154, 6904),

Gene: Mulan\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Mulan\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Murdoc\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Murdoc\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Mutante\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Mutante\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Mysterious\_9 Start: 6540, Stop: 6941, Start Num: 88

Candidate Starts for Mysterious\_9:

(Start: 88 @6540 has 13 MA's), (Start: 91 @6552 has 2 MA's), (93, 6561), (94, 6567), (97, 6579), (109, 6663), (117, 6699), (121, 6714), (125, 6747), (126, 6756), (129, 6780), (131, 6792), (137, 6819), (154, 6882), (158, 6918),

Gene: Nacho\_007 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Nacho\_007:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Nanao\_7 Start: 5221, Stop: 5616, Start Num: 90

Candidate Starts for Nanao\_7:

(Start: 85 @5203 has 33 MA's), (Start: 90 @5221 has 1 MA's), (Start: 91 @5227 has 2 MA's), (97, 5254), (111, 5344), (122, 5401), (123, 5404), (125, 5422), (126, 5431), (129, 5455), (133, 5482), (141, 5509), (151, 5539), (157, 5587),

Gene: Nangang\_9 Start: 6253, Stop: 6675, Start Num: 88

Candidate Starts for Nangang\_9:

(Start: 88 @6253 has 13 MA's), (94, 6280), (98, 6298), (109, 6376), (120, 6424), (125, 6460), (126, 6469), (129, 6493), (135, 6526), (143, 6565), (145, 6571), (158, 6652),

Gene: Nathan\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Nathan\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (134, 4254), (135, 4257), (137, 4263), (154, 4338),

Gene: Nehemiah\_8 Start: 6540, Stop: 6941, Start Num: 88

Candidate Starts for Nehemiah\_8:

(Start: 88 @6540 has 13 MA's), (Start: 91 @6552 has 2 MA's), (93, 6561), (94, 6567), (97, 6579), (109, 6663), (125, 6747), (126, 6756), (129, 6780), (131, 6792), (137, 6819), (154, 6882), (158, 6918),

Gene: Newman\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Newman\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Nicole21\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Nicole21\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263),

Gene: Nigel\_6 Start: 5100, Stop: 5522, Start Num: 85

Candidate Starts for Nigel\_6:

(Start: 85 @5100 has 33 MA's), (Start: 90 @5118 has 1 MA's), (Start: 91 @5124 has 2 MA's), (97, 5151), (111, 5241), (117, 5271), (122, 5298), (123, 5301), (125, 5319), (129, 5352), (133, 5379), (141, 5406), (157, 5484),

Gene: Numberten\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Numberten\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Nyala\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Nyala\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: OSmaximus\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for OSmaximus\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (134, 4254), (135, 4257), (137, 4263), (154, 4338),

Gene: Olak\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Olak\_7:

(40, 3750), (Start: 43 @3765 has 3 MA's), (48, 3780), (50, 3789), (54, 3810), (67, 3870), (Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (94, 4011), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (134, 4254), (135, 4257), (137, 4263), (154, 4338),

Gene: Oline\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Oline\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Olive\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Olive\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: OliverWalter\_7 Start: 3961, Stop: 4407, Start Num: 82

Candidate Starts for OliverWalter\_7:

(Start: 68 @3874 has 7 MA's), (Start: 82 @3961 has 272 MA's), (104, 4072), (126, 4198), (129, 4222), (133, 4249), (135, 4255), (137, 4261),

Gene: Omniscient\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Omniscient\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: OneBrain\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for OneBrain\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264),

Gene: Oosterbaan\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Oosterbaan\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Orfeu\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Orfeu\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (135, 4258), (137, 4264), (154, 4339),

Gene: Orion\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Orion\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Orwigg\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Orwigg\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: PG1\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for PG1\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: PR\_05 Start: 2882, Stop: 3286, Start Num: 85

Candidate Starts for PR\_05:

(Start: 85 @2882 has 33 MA's), (89, 2897), (94, 2921), (101, 2951), (116, 3044), (130, 3128), (137, 3161), (147, 3185), (148, 3191), (157, 3251),

Gene: Pacifista\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Pacifista\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (134, 4253), (135, 4256), (137, 4262), (154, 4337),

Gene: PallasAthena\_8 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for PallasAthena\_8:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: PenguinLover67\_11 Start: 7154, Stop: 7573, Start Num: 83

Candidate Starts for PenguinLover67\_11:

(31, 6878), (41, 6944), (46, 6962), (52, 6986), (55, 7001), (56, 7004), (58, 7016), (61, 7022), (62, 7025), (64, 7034), (Start: 68 @7064 has 7 MA's), (69, 7070), (71, 7079), (Start: 75 @7103 has 1 MA's), (Start: 83 @7154 has 5 MA's), (96, 7208), (97, 7211), (120, 7343), (124, 7376), (128, 7406), (129, 7412), (130, 7418), (133, 7439), (141, 7466),

Gene: Phamished\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Phamished\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Phareon\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Phareon\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: PhatCats2014\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for PhatCats2014\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: PhatLouie\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for PhatLouie\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Phelemich\_9 Start: 6543, Stop: 6944, Start Num: 88

Candidate Starts for Phelemich\_9:

(Start: 88 @6543 has 13 MA's), (Start: 91 @6555 has 2 MA's), (92, 6561), (93, 6564), (97, 6582), (109, 6666), (117, 6702), (121, 6717), (125, 6750), (126, 6759), (129, 6783), (154, 6885), (158, 6921),

Gene: PhenghisKhan\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for PhenghisKhan\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Pherdinand\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Pherdinand\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Phergie\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Phergie\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Phipps\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Phipps\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Phleuron\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Phleuron\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: PhrankReynolds\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for PhrankReynolds\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: PhrodoBaggins\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for PhrodoBaggins\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Phunky\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Phunky\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Piglet\_007 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Piglet\_007:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: PinheadLarry\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for PinheadLarry\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Pinkman\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Pinkman\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Pipsqueak\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Pipsqueak\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Placalicious\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Placalicious\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Plata\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Plata\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Plmatters\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Plmatters\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Podrick\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Podrick\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Pops\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Pops\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265),

Gene: Poster\_7 Start: 5221, Stop: 5616, Start Num: 90

Candidate Starts for Poster\_7:

(Start: 85 @5203 has 33 MA's), (Start: 90 @5221 has 1 MA's), (Start: 91 @5227 has 2 MA's), (97, 5254), (111, 5344), (122, 5401), (123, 5404), (125, 5422), (126, 5431), (129, 5455), (133, 5482), (141, 5509), (151, 5539), (157, 5587),

Gene: Potter\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Potter\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Prickles\_7 Start: 3971, Stop: 4417, Start Num: 82

Candidate Starts for Prickles\_7:

(Start: 68 @3884 has 7 MA's), (Start: 82 @3971 has 272 MA's), (104, 4082), (126, 4208), (129, 4232), (133, 4259), (135, 4265), (137, 4271),

Gene: Prince\_8 Start: 6462, Stop: 6881, Start Num: 85

Candidate Starts for Prince\_8:

(67, 6366), (69, 6378), (Start: 85 @6462 has 33 MA's), (Start: 90 @6480 has 1 MA's), (Start: 91 @6486 has 2 MA's), (92, 6492), (97, 6513), (103, 6549), (111, 6603), (129, 6714), (130, 6720), (133, 6741), (141, 6768), (149, 6786), (153, 6810), (154, 6816),

Gene: ProfessorX\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for ProfessorX\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Puhltonio\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Puhltonio\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: QueenBeane\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for QueenBeane\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: QueenPie\_8 Start: 6109, Stop: 6507, Start Num: 90

Candidate Starts for QueenPie\_8:

(Start: 85 @6091 has 33 MA's), (Start: 90 @6109 has 1 MA's), (Start: 91 @6115 has 2 MA's), (97, 6142), (110, 6229), (125, 6310), (126, 6319), (129, 6343), (133, 6370), (141, 6397), (151, 6427), (157, 6475),

Gene: Quesadilla\_10 Start: 6979, Stop: 7392, Start Num: 85

Candidate Starts for Quesadilla\_10:

(38, 6742), (41, 6766), (44, 6772), (47, 6781), (49, 6787), (52, 6802), (58, 6832), (61, 6838), (62, 6841), (Start: 68 @6880 has 7 MA's), (69, 6886), (71, 6895), (Start: 75 @6919 has 1 MA's), (Start: 82 @6970 has 272 MA's), (Start: 85 @6979 has 33 MA's), (97, 7030), (99, 7039), (111, 7120), (114, 7138), (122, 7177), (124, 7195), (129, 7231), (130, 7237), (149, 7303), (154, 7333),

Gene: Quisquilliae\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Quisquilliae\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: RawrgerThat\_8 Start: 6296, Stop: 6715, Start Num: 85

Candidate Starts for RawrgerThat\_8:

(4, 5729), (5, 5771), (6, 5786), (7, 5789), (10, 5819), (14, 5846), (15, 5855), (16, 5861), (17, 5867), (20, 5891), (25, 5981), (27, 6005), (30, 6023), (32, 6032), (39, 6080), (42, 6095), (51, 6125), (52, 6131), (53, 6140), (61, 6158), (Start: 68 @6200 has 7 MA's), (71, 6215), (74, 6230), (Start: 75 @6236 has 1 MA's), (Start: 76 @6239 has 1 MA's), (Start: 85 @6296 has 33 MA's), (Start: 90 @6314 has 1 MA's), (Start: 91 @6320 has 2 MA's), (92, 6326), (97, 6347), (103, 6383), (111, 6437), (129, 6548), (130, 6554), (141, 6602), (149, 6620), (153, 6644), (154, 6650),

Gene: Reccee\_10 Start: 6426, Stop: 6848, Start Num: 88

Candidate Starts for Reccee\_10:

(Start: 88 @6426 has 13 MA's), (94, 6453), (98, 6471), (109, 6549), (120, 6597), (125, 6633), (126, 6642), (129, 6666), (135, 6699), (143, 6738), (145, 6744), (158, 6825),

Gene: RedMaple\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for RedMaple\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (132, 4247), (133, 4250), (135, 4256), (137, 4262),

Gene: RedRaider89\_8 Start: 4197, Stop: 4643, Start Num: 82

Candidate Starts for RedRaider89\_8:

(Start: 68 @4110 has 7 MA's), (Start: 82 @4197 has 272 MA's), (104, 4308), (126, 4434), (129, 4458), (133, 4485), (134, 4488), (135, 4491), (137, 4497), (154, 4572),

Gene: Renkei\_7 Start: 5222, Stop: 5617, Start Num: 90

Candidate Starts for Renkei\_7:

(Start: 85 @5204 has 33 MA's), (Start: 90 @5222 has 1 MA's), (Start: 91 @5228 has 2 MA's), (97, 5255), (111, 5345), (122, 5402), (123, 5405), (125, 5423), (126, 5432), (129, 5456), (133, 5483), (151, 5540), (157, 5588),

Gene: Reprobate\_9 Start: 6540, Stop: 6941, Start Num: 88

Candidate Starts for Reprobate\_9:

(Start: 88 @6540 has 13 MA's), (Start: 91 @6552 has 2 MA's), (92, 6558), (93, 6561), (97, 6579), (109, 6663), (117, 6699), (121, 6714), (125, 6747), (126, 6756), (129, 6780), (154, 6882), (158, 6918),

Gene: Rich\_9 Start: 6268, Stop: 6669, Start Num: 88

Candidate Starts for Rich\_9:

(Start: 88 @6268 has 13 MA's), (94, 6295), (103, 6343), (109, 6391), (121, 6442), (125, 6475), (126, 6484), (129, 6508), (136, 6544), (158, 6646),

Gene: Ricotta\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Ricotta\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Riggan\_7 Start: 3969, Stop: 4415, Start Num: 82

Candidate Starts for Riggan\_7:

(Start: 68 @3882 has 7 MA's), (Start: 82 @3969 has 272 MA's), (104, 4080), (126, 4206), (129, 4230), (133, 4257), (135, 4263), (137, 4269), (154, 4344),

Gene: Rimu\_7 Start: 3961, Stop: 4407, Start Num: 82

Candidate Starts for Rimu\_7:

(Start: 68 @3874 has 7 MA's), (Start: 82 @3961 has 272 MA's), (94, 4009), (126, 4198), (129, 4222), (133, 4249), (134, 4252), (135, 4255), (137, 4261), (154, 4336),

Gene: Rinkes\_12 Start: 8096, Stop: 8527, Start Num: 87

Candidate Starts for Rinkes\_12:

(Start: 87 @8096 has 2 MA's), (Start: 88 @8102 has 13 MA's), (93, 8123), (107, 8213), (125, 8312), (129, 8345), (135, 8378), (146, 8426), (149, 8438),

Gene: Rita130\_9 Start: 6267, Stop: 6668, Start Num: 88

Candidate Starts for Rita130\_9:

(Start: 88 @6267 has 13 MA's), (94, 6294), (97, 6306), (103, 6342), (109, 6390), (121, 6441), (125, 6474), (126, 6483), (129, 6507), (157, 6639), (158, 6645),

Gene: Riverton\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Riverton\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Robyn\_7 Start: 3967, Stop: 4413, Start Num: 82

Candidate Starts for Robyn\_7:

(Start: 68 @3880 has 7 MA's), (Start: 82 @3967 has 272 MA's), (104, 4078), (126, 4204), (129, 4228), (133, 4255), (135, 4261), (137, 4267),

Gene: Roliet\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Roliet\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Roscoe\_8 Start: 4200, Stop: 4646, Start Num: 82

Candidate Starts for Roscoe\_8:

(40, 3987), (Start: 43 @4002 has 3 MA's), (48, 4017), (50, 4026), (54, 4047), (67, 4107), (Start: 68 @4113 has 7 MA's), (Start: 82 @4200 has 272 MA's), (94, 4248), (104, 4311), (126, 4437), (129, 4461), (133, 4488), (134, 4491), (135, 4494), (137, 4500), (154, 4575),

Gene: Roy17\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Roy17\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: SDcharge11\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for SDcharge11\_7:

(67, 3871), (Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Saguaro\_10 Start: 7187, Stop: 7600, Start Num: 85

Candidate Starts for Saguaro\_10:

(69, 7094), (71, 7103), (Start: 75 @7127 has 1 MA's), (Start: 76 @7130 has 1 MA's), (Start: 85 @7187 has 33 MA's), (97, 7238), (99, 7247), (120, 7370), (122, 7385), (124, 7403), (128, 7433), (129, 7439), (133, 7466), (140, 7490), (141, 7493),

Gene: SallyH\_8 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for SallyH\_8:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263),

Gene: Samaymay\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Samaymay\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: SassyCat97\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for SassyCat97\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Schadenfreude\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Schadenfreude\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Schueller\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Schueller\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Scoot17C\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Scoot17C\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: Scrick\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Scrick\_7:

(40, 3753), (Start: 43 @3768 has 3 MA's), (48, 3783), (50, 3792), (54, 3813), (67, 3873), (Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (94, 4014), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (134, 4257), (135, 4260), (137, 4266), (154, 4341),

Gene: Sejanus\_6 Start: 3671, Stop: 4078, Start Num: 83

Candidate Starts for Sejanus\_6:

(78, 3638), (Start: 83 @3671 has 5 MA's), (94, 3716), (98, 3734), (100, 3743), (102, 3761), (103, 3764), (104, 3779), (123, 3878), (124, 3893), (127, 3908), (132, 3953), (135, 3962), (137, 3968), (156, 4043),

Gene: Selr12\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Selr12\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (94, 4013), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Serendipitous\_9 Start: 6319, Stop: 6720, Start Num: 88

Candidate Starts for Serendipitous\_9:

(Start: 88 @6319 has 13 MA's), (94, 6346), (103, 6394), (109, 6442), (117, 6478), (121, 6493), (125, 6526), (126, 6535), (129, 6559), (157, 6691), (158, 6697),

Gene: Serendipity\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Serendipity\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Serpentine\_007 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Serpentine\_007:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: ShadowBud\_8 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for ShadowBud\_8:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Sheila\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Sheila\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Shenyu\_9 Start: 6253, Stop: 6675, Start Num: 88

Candidate Starts for Shenyu\_9:

(Start: 88 @6253 has 13 MA's), (94, 6280), (98, 6298), (109, 6376), (120, 6424), (125, 6460), (126, 6469), (129, 6493), (135, 6526), (143, 6565), (145, 6571), (158, 6652),

Gene: ShiVal\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for ShiVal\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Sigman\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Sigman\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: SilverBell\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for SilverBell\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Simielle\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Simielle\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: SirBeauregard\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for SirBeauregard\_7:

(40, 3750), (Start: 43 @3765 has 3 MA's), (48, 3780), (50, 3789), (54, 3810), (67, 3870), (Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (94, 4011), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (134, 4254), (135, 4257), (137, 4263), (154, 4338),

Gene: SirJeffery\_9 Start: 6267, Stop: 6668, Start Num: 88

Candidate Starts for SirJeffery\_9:

(Start: 88 @6267 has 13 MA's), (94, 6294), (97, 6306), (103, 6342), (109, 6390), (121, 6441), (125, 6474), (126, 6483), (129, 6507), (157, 6639), (158, 6645),

Gene: Skippy\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Skippy\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Slatt\_7 Start: 3967, Stop: 4413, Start Num: 82

Candidate Starts for Slatt\_7:

(Start: 68 @3880 has 7 MA's), (Start: 82 @3967 has 272 MA's), (104, 4078), (126, 4204), (129, 4228), (133, 4255), (135, 4261), (137, 4267), (154, 4342),

Gene: Soile\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Soile\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (135, 4258), (137, 4264), (154, 4339),

Gene: Solosis\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Solosis\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Sophia\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Sophia\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Soto\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Soto\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (134, 4253), (135, 4256), (137, 4262), (154, 4337),

Gene: Spartan300\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Spartan300\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Squid\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Squid\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Squiggle\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Squiggle\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: StAugustine\_13 Start: 8961, Stop: 9371, Start Num: 85

Candidate Starts for StAugustine\_13:

(9, 8484), (11, 8511), (14, 8535), (18, 8550), (19, 8556), (22, 8589), (26, 8670), (33, 8718), (35, 8736), (Start: 43 @8778 has 3 MA's), (50, 8802), (57, 8832), (Start: 75 @8904 has 1 MA's), (77, 8919), (Start: 85 @8961 has 33 MA's), (97, 9012), (120, 9144), (128, 9207), (129, 9213), (139, 9261),

Gene: Stinger\_6 Start: 4739, Stop: 5161, Start Num: 85

Candidate Starts for Stinger\_6:

(Start: 85 @4739 has 33 MA's), (Start: 90 @4757 has 1 MA's), (Start: 91 @4763 has 2 MA's), (97, 4790), (111, 4880), (117, 4910), (122, 4937), (123, 4940), (125, 4958), (129, 4991), (141, 5045), (154, 5093), (157, 5123),

Gene: StinkyVeggy\_10 Start: 6414, Stop: 6836, Start Num: 88

Candidate Starts for StinkyVeggy\_10:

(Start: 88 @6414 has 13 MA's), (93, 6435), (94, 6441), (98, 6459), (109, 6537), (120, 6585), (125, 6621), (126, 6630), (129, 6654), (135, 6687), (143, 6726), (145, 6732), (158, 6813),

Gene: Struggle\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Struggle\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Suffolk\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Suffolk\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (104, 4075), (126, 4201), (129, 4225), (133, 4252), (135, 4258), (137, 4264),

Gene: Suigeneris\_9 Start: 6267, Stop: 6668, Start Num: 88

Candidate Starts for Suigeneris\_9:

(Start: 88 @6267 has 13 MA's), (94, 6294), (97, 6306), (103, 6342), (109, 6390), (121, 6441), (125, 6474), (126, 6483), (129, 6507), (157, 6639), (158, 6645),

Gene: Surely\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Surely\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Swiphy\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Swiphy\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (134, 4256), (135, 4259), (137, 4265), (154, 4340),

Gene: Swish\_7 Start: 3879, Stop: 4412, Start Num: 68

Candidate Starts for Swish\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: TallGrassMM\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for TallGrassMM\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Taptic\_5 Start: 2882, Stop: 3286, Start Num: 85

Candidate Starts for Taptic\_5:

(Start: 85 @2882 has 33 MA's), (89, 2897), (94, 2921), (101, 2951), (116, 3044), (130, 3128), (137, 3161), (147, 3185), (148, 3191), (157, 3251),

Gene: Telesworld\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Telesworld\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Thonko\_6 Start: 3289, Stop: 3702, Start Num: 84

Candidate Starts for Thonko\_6:

(60, 3148), (Start: 84 @3289 has 1 MA's), (96, 3340), (97, 3343), (99, 3352), (122, 3490), (128, 3538), (129, 3544), (131, 3556), (133, 3571), (135, 3577), (150, 3619), (151, 3628),

Gene: Thora\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Thora\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: ThreeOh3D2\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for ThreeOh3D2\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Thunderbird\_7 Start: 3964, Stop: 4410, Start Num: 82

Candidate Starts for Thunderbird\_7:

(Start: 68 @3877 has 7 MA's), (Start: 82 @3964 has 272 MA's), (94, 4012), (126, 4201), (129, 4225), (133, 4252), (134, 4255), (135, 4258), (137, 4264), (154, 4339),

Gene: Timmi\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Timmi\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: TomBombadil\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for TomBombadil\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Tomlarah\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Tomlarah\_7:

(40, 3752), (Start: 43 @3767 has 3 MA's), (48, 3782), (50, 3791), (54, 3812), (67, 3872), (Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Toni\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Toni\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266),

Gene: TooFast2Furius\_9 Start: 4200, Stop: 4646, Start Num: 82

Candidate Starts for TooFast2Furius\_9:

(Start: 68 @4113 has 7 MA's), (Start: 82 @4200 has 272 MA's), (104, 4311), (126, 4437), (129, 4461), (133, 4488), (135, 4494), (137, 4500), (154, 4575),

Gene: Tooj\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Tooj\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263),

Gene: Triad\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Triad\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: True\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for True\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Trypo\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Trypo\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: TyrionL\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for TyrionL\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: UAch1\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for UAch1\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: UncleHowie\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for UncleHowie\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Usavi\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Usavi\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Vaishali24\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Vaishali24\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Valjean\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Valjean\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Vaticameos\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Vaticameos\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Veritas\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Veritas\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Vincenzo\_9 Start: 6977, Stop: 7429, Start Num: 79

Candidate Starts for Vincenzo\_9:

(Start: 79 @6977 has 2 MA's), (Start: 85 @7007 has 33 MA's), (Start: 90 @7025 has 1 MA's), (113, 7160), (115, 7175), (129, 7259), (130, 7265), (135, 7292), (138, 7298), (145, 7316),

Gene: VioletZ\_8 Start: 6302, Stop: 6721, Start Num: 85

Candidate Starts for VioletZ\_8:

(5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (20, 5894), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (42, 6101), (51, 6131), (52, 6137), (53, 6146), (61, 6164), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245 has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (129, 6554), (130, 6560), (133, 6581), (141,

6608), (149, 6626), (153, 6650), (154, 6656),

Gene: Virapocalypse\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Virapocalypse\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263),

Gene: Virgeve\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Virgeve\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Vista\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Vista\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Vivaldi\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Vivaldi\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: Vortex\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Vortex\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Waleliano\_8 Start: 6302, Stop: 6721, Start Num: 85

Candidate Starts for Waleliano\_8:

(5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (19, 5879), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (41, 6095), (42, 6101), (51, 6131), (52, 6137), (53, 6146), (66, 6191), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245 has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (129, 6554), (130, 6560), (133, 6581), (141, 6608), (149, 6626), (153, 6650), (154, 6656),

Gene: Wallhey\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Wallhey\_7:

(40, 3749), (Start: 43 @3764 has 3 MA's), (48, 3779), (50, 3788), (54, 3809), (67, 3869), (Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (94, 4010), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Waterdiva\_7 Start: 3966, Stop: 4412, Start Num: 82

Candidate Starts for Waterdiva\_7:

(Start: 68 @3879 has 7 MA's), (Start: 82 @3966 has 272 MA's), (104, 4077), (126, 4203), (129, 4227), (133, 4254), (135, 4260), (137, 4266), (154, 4341),

Gene: Weher20\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for Weher20\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Windsor\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Windsor\_7:

(40, 3750), (Start: 43 @3765 has 3 MA's), (48, 3780), (50, 3789), (54, 3810), (67, 3870), (Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (94, 4011), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (134, 4254), (135, 4257), (137, 4263), (154, 4338),

Gene: Xavier\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Xavier\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Xincheng\_8 Start: 6144, Stop: 6545, Start Num: 90

Candidate Starts for Xincheng\_8:

(73, 6057), (Start: 75 @6066 has 1 MA's), (Start: 76 @6069 has 1 MA's), (Start: 85 @6126 has 33 MA's), (Start: 90 @6144 has 1 MA's), (Start: 91 @6150 has 2 MA's), (92, 6156), (97, 6177), (103, 6213), (111, 6267), (129, 6378), (130, 6384), (133, 6405), (141, 6432), (153, 6474), (154, 6480),

Gene: Yoshand\_7 Start: 3963, Stop: 4409, Start Num: 82

Candidate Starts for Yoshand\_7:

(Start: 68 @3876 has 7 MA's), (Start: 82 @3963 has 272 MA's), (104, 4074), (126, 4200), (129, 4224), (133, 4251), (135, 4257), (137, 4263), (154, 4338),

Gene: YouGoGlencoco\_7 Start: 3962, Stop: 4408, Start Num: 82

Candidate Starts for YouGoGlencoco\_7:

(Start: 68 @3875 has 7 MA's), (Start: 82 @3962 has 272 MA's), (104, 4073), (126, 4199), (129, 4223), (133, 4250), (135, 4256), (137, 4262), (154, 4337),

Gene: Zaider\_8 Start: 4195, Stop: 4641, Start Num: 82

Candidate Starts for Zaider\_8:

(Start: 68 @4108 has 7 MA's), (Start: 82 @4195 has 272 MA's), (104, 4306), (126, 4432), (129, 4456), (133, 4483), (135, 4489), (137, 4495), (154, 4570),

Gene: Zelda\_7 Start: 3965, Stop: 4411, Start Num: 82

Candidate Starts for Zelda\_7:

(Start: 68 @3878 has 7 MA's), (Start: 82 @3965 has 272 MA's), (104, 4076), (126, 4202), (129, 4226), (133, 4253), (135, 4259), (137, 4265), (154, 4340),

Gene: Zemanar\_9 Start: 6302, Stop: 6721, Start Num: 85

Candidate Starts for Zemanar\_9:

(5, 5774), (6, 5789), (7, 5792), (10, 5822), (14, 5849), (15, 5858), (16, 5864), (17, 5870), (20, 5894), (25, 5984), (27, 6008), (29, 6020), (39, 6086), (42, 6101), (51, 6131), (52, 6137), (53, 6146), (61, 6164), (Start: 68 @6206 has 7 MA's), (71, 6221), (74, 6236), (Start: 75 @6242 has 1 MA's), (Start: 76 @6245 has 1 MA's), (Start: 85 @6302 has 33 MA's), (Start: 90 @6320 has 1 MA's), (Start: 91 @6326 has 2 MA's), (92, 6332), (97, 6353), (103, 6389), (111, 6443), (129, 6554), (130, 6560), (133, 6581), (141, 6608), (149, 6626), (153, 6650), (154, 6656),

Gene: Zenteno07\_12 Start: 5148, Stop: 5579, Start Num: 81

Candidate Starts for Zenteno07\_12:

(51, 4974), (Start: 81 @5148 has 1 MA's), (Start: 82 @5154 has 272 MA's), (94, 5199), (119, 5343), (133, 5439), (149, 5484), (154, 5514),

Gene: Zonia\_7 Start: 3961, Stop: 4407, Start Num: 82

Candidate Starts for Zonia\_7:

(Start: 68 @3874 has 7 MA's), (Start: 82 @3961 has 272 MA's), (94, 4009), (126, 4198), (129, 4222),  
(133, 4249), (134, 4252), (135, 4255), (137, 4261), (154, 4336),