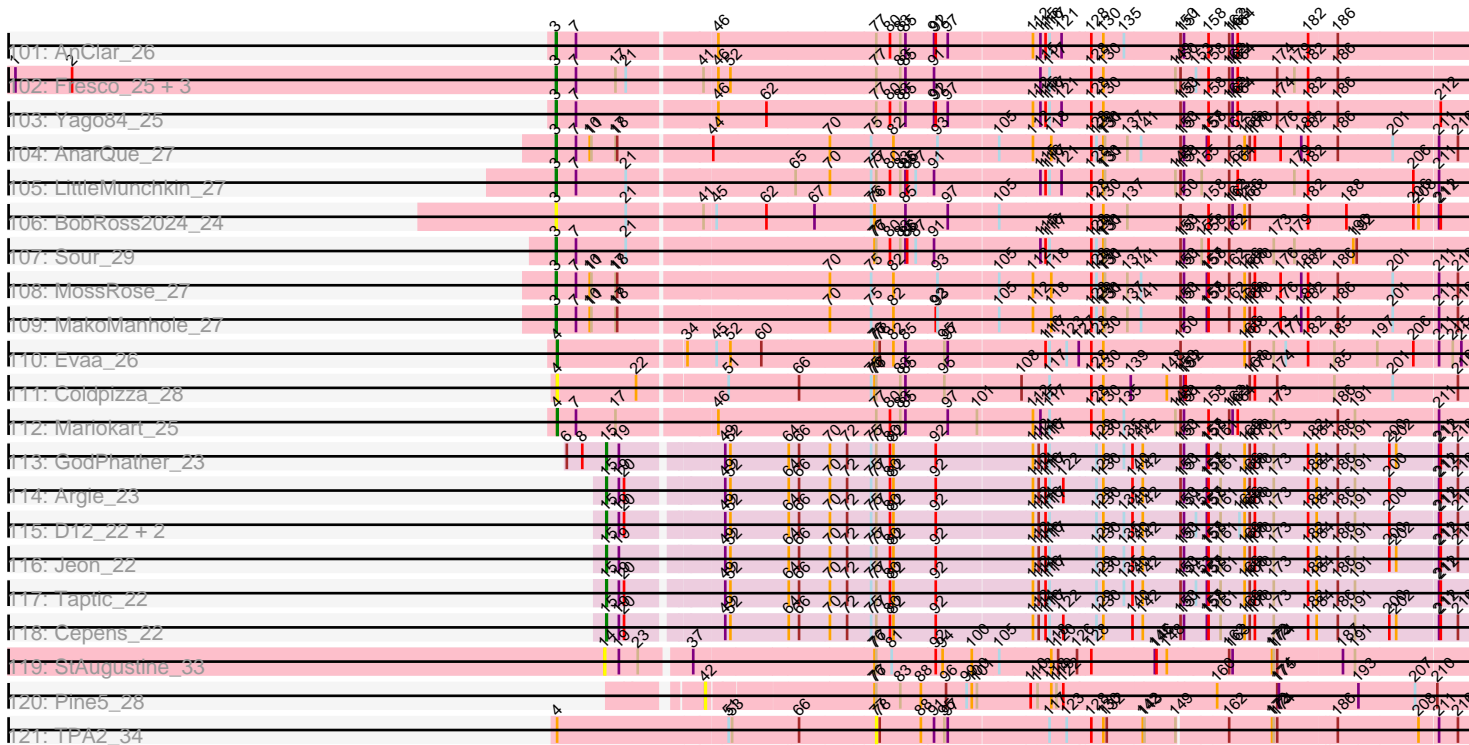


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1: Mask_25 + 2	14	20	21	30	40	50	51	52	70	80	90	100	102	120	130	144	150	161	170	184	194	212	216
2: Don_25	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
3: Jiminy_28 + 9	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
4: Giraffe_29 + 197	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
5: Mikota_29 + 7	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
6: Pops_29	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
7: Pneuron_28 + 11	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
8: Deirivs_28 + 1	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
9: DuchessDung_27 + 25	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
10: Inchworm_29 + 1	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
11: Mecca_28	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
12: Thunderbird_28	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
13: OSmaximus_29 + 2	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
14: JDog_28 + 3	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
15: CheetO_29	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
16: PinheadLarry_29	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
17: GeneCoco_29	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
18: Dati_29	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
19: MimiBoss_29	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
20: Apizium_28	14	21	30	40	50	51	52	70	80	90	100	102	110	130	140	144	150	161	170	184	194	212	216
21: Chaelin_29	14	26	30	30	30	51	52	53	70	80	90	100	111	120	130	144	150	161	170	184	194	212	216
22: Imvubu_22	14	26	30	30	30	51	52	53	70	80	90	100	111	120	130	144	150	161	170	184	194	212	216
23: Indiovu_26	14	21	31	30	30	31	51	53	70	80	90	100	111	120	130	144	150	161	170	184	194	212	216
24: LilMcDreamy_25	14	21	30	30	30	51	52	53	70	80	90	100	112	121	130	144	150	161	170	184	194	212	216
25: Hashim76_32	14	21	30	30	30	51	52	53	70	80	90	100	112	121	130	144	150	161	170	184	194	212	216
26: Zenteno07_32	14	21	30	30	30	51	52	53	70	80	90	100	112	121	130	144	150	161	170	184	194	212	216
27: BirdsNest_31	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
28: Lars_30 + 22	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
29: Kaleb_30 + 2	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
30: Calamitous_30 + 4	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
31: ItsyBitsy1_30	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
32: Vic9_31 + 1	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
33: Godines_30	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
34: Bernardo_29	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
35: Briakia_29 + 1	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
36: Baloo_29 + 14	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
37: Gervas_29 + 2	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
38: Athena_30	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
39: Ben11_28	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
40: Jackstina_26 + 6	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
41: MimasCarm_29	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
42: YinZ_29	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
43: Phaedrus_27 + 3	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
44: Roma1_29 + 2	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
45: HarveySr_29	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
46: Phayeta_29 + 3	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
47: Pipelish_30	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
48: Hairpint_28	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
49: Nozo_29	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216
50: Haily898_25 + 7	14	20	31	30	30	51	52	53	70	80	90	100	111	121	130	144	150	161	170	184	194	212	216



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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 190953 Report

This analysis was run 11/02/24 on database version 579.

Pham number 190953 has 467 members, 48 are drafts.

Phages represented in each track:

- Track 1 : Mask\_25, Mao1\_24, Sejanus\_25
- Track 2 : Dori\_25
- Track 3 : Jiminy\_28, Etaye\_29, Coletti\_28, Duggie\_28, Chute\_28, Keitherie\_29, Windsor\_28, Virgeve\_28, DaddyDaniels\_29, Struggle\_28
- Track 4 : Giraffe\_29, Banjo\_28, Serpentine\_0029, Haimas\_29, KingTut\_20, Iridoclysis\_29, Nacho\_0029, Adriana\_29, Kimbrough\_29, Hetaeria\_29, OliverWalter\_29, Oosterbaan\_29, Maru\_28, Burr\_28, Selr12\_29, KingVeVeVe\_29, Valjean\_29, UncleHowie\_29, SilverBell\_29, FluffyNinja\_29, Usavi\_29, Olive\_29, Zelda\_29, Gyarad\_0029, Eugenia\_29, EmpTee\_29, Prickles\_29, Mulan\_28, Pherdinand\_29, LuckyMarjie\_28, Orwigg\_29, Thora\_29, Altwerkus\_28, Zonia\_29, Boehler\_29, Murdoc\_29, Cher\_28, KLucky39\_29, Buckeye\_29, Toni\_28, Skippy\_29, Pipsqueak\_29, Gwilliam\_29, SDcharge11\_29, Plmatters\_29, Gareth\_28, Antonia\_28, Megamind20\_29, Chah\_30, Newman\_29, Kwadwo\_28, Manad\_28, Simielle\_28, Mana\_28, Squid\_29, Daffy\_29, Olak\_28, Freya\_28, Cornobble\_28, Numberten\_29, ABU\_29, BlackStallion\_29, ThreeOh3D2\_29, Orfeu\_28, Andre\_29, Scoot17C\_29, Mcshane\_28, Yoshand\_29, Schadenfreude\_28, LostAndPhound\_28, MitKao\_29, Haleema\_28, Scrick\_29, Swish\_29, Lulumae\_28, Mutante\_28, Bishoperium\_28, Roy17\_29, Sigman\_29, Orion\_29, Serendipity\_29, Xavier\_28, Spartan300\_29, Lumine\_28, Emiris\_29, Megatron\_29, LeeLot\_29, Dingo\_29, Bluephacebaby\_28, KlimbOn\_29, IsaacEli\_29, Basato\_30, PhrodoBaggins\_28, Beaglebox\_28, Lopsy\_28, Lulwa\_29, Jillium\_28, Sophia\_28, Surely\_29, Grand2040\_28, Chunky\_29, Slatt\_29, Mosaic\_28, Chorkpop\_29, ProfessorX\_29, Crownjwl\_29, Kikipoo\_29, Harvey\_29, Charles1\_29, Telesworld\_28, SassyCat97\_28, Childish\_28, QueenBeane\_29, Hertubise\_29, Omniscient\_29, Ricotta\_28, Zaidler\_30, Badfish\_29, Roscoe\_30, Held\_29, Lego3393\_29, Horchata\_29, Matalotodo\_29, DoesntMatter\_29, Colbert\_29, Nyala\_28, Phareon\_29, AbsoluteMadLad\_28, Inverness\_29, LeiMonet\_29, Fang\_29, Kahve\_28, YouGoGlencoco\_29, Quisquiliae\_29, Cosmolli16\_28, ShiVal\_29, LemonSlice\_29, DonSanchon\_28, Legolas\_28, Gophee\_29, Cannibal\_29, Waterdiva\_29, HighStump\_28, HSavage\_29, Suffolk\_29, Eremos\_29, Morgushi\_29, Dice\_28, Carthage\_27, MRabcd\_28, JacAttac\_29, Riggan\_29, Puhltonio\_29, UAch1\_29, Lasso\_29, Dione\_28, Samaymay\_29, Mesh1\_29, Sheila\_29, True\_28, Katniss\_29, Timmi\_28, TomBombadil\_29, AltPhacts\_29, Phipps\_29, PhatCats2014\_29, Kloppinator\_29, Craff\_29, Potter\_28, Soto\_29, Morty\_29, Vaticameos\_29, Piglet\_0028, Phunky\_29, HenryJackson\_28, CamL\_29, Phamished\_29, Fringe\_29, Vaishali24\_28, FugateOSU\_28, Robyn\_28, BlueHusk\_29, FriarPreacher\_29, Podrick\_29, Squiggle\_29, Vista\_29, Tooj\_29, RedMaple\_28, Pacifista\_28, Aelin\_28, Anderson\_29, TallGrassMM\_29, Tomlarah\_29, Hamish\_29,

Placalicious\_28, Vortex\_29, PG1\_29, Vivaldi\_29

- Track 5 : Mikota\_29, Nicole21\_29, Frankicide\_29, DirtJuice\_29, Virapocalypse\_29, Roliet\_29, JangoPhett\_29, Daka\_29
- Track 6 : Pops\_29
- Track 7 : Phleuron\_28, BatteryCK\_28, Phergie\_28, Magic8\_29, Veritas\_28, MichaelPhcott\_28, Kailash\_29, PhrankReynolds\_28, PhenghisKhan\_28, LasagnaCat\_29, Hartsy\_29, Mag7\_28
- Track 8 : DelRivs\_28, Soile\_29
- Track 9 : DuchessDung\_27, Swiphy\_30, MrPhizzler\_28, Oline\_28, Maskar\_28, Derpp\_28, TyrionL\_28, Trypo\_29, Hocus\_28, Doddsville\_29, JakeO\_28, Wallhey\_28, Pinkman\_28, Ashraf\_28, ImtiyazSitla\_28, Durga\_29, Cobra\_29, Kwksand96\_28, Longacauda\_28, Rimu\_30, Schueller\_29, Brilliant\_29, PhatLouie\_29, CharlieGBrown\_28, Jiraiya\_29, Labeouficaum\_28
- Track 10 : Inchworm\_29, CampRoach\_29
- Track 11 : Mecca\_28
- Track 12 : Thunderbird\_28
- Track 13 : OSmaximus\_29, Solosis\_28, Fozzie\_28
- Track 14 : JDog\_28, MelsMeow\_28, Weher20\_29, Melc17\_29
- Track 15 : CheetO\_29
- Track 16 : PinheadLarry\_29
- Track 17 : GeneCoco\_29
- Track 18 : Dati\_29
- Track 19 : MiniBoss\_29
- Track 20 : Apizium\_28
- Track 21 : Chaelin\_29
- Track 22 : Imvubu\_22
- Track 23 : Indlovu\_26
- Track 24 : LilMcDreamy\_25
- Track 25 : Hashim76\_32
- Track 26 : Zenteno07\_32
- Track 27 : BirdsNest\_31
- Track 28 : Lars\_30, Rosebush\_30, TA17A\_30, Opia\_30, Glass\_30, Allegro\_30, Sabella\_30, MasterPo\_30, Eaglehorse\_30, LizLemon\_30, Arbiter\_30, Holeinone\_30, Hedgerow\_30, Coffee\_30, Blocker23\_30, Ares\_30, West99\_30, Lephleur\_30, FrenchFry\_30, Tinciduntolum\_31, Qyrzula\_28, Tres\_30, Brownie5\_30
- Track 29 : Kaleb\_30, Kheth\_30, Rhinoforte\_30
- Track 30 : Calamitous\_30, Bananafish\_30, Boyle\_30, Phantasmagoria\_30, Faze9\_30
- Track 31 : ItsyBitsy1\_30
- Track 32 : Vic9\_31, Laurie\_30
- Track 33 : Godines\_30
- Track 34 : Bernardo\_29
- Track 35 : Briakila\_29, ChaChing\_29
- Track 36 : Baloo\_29, OrangeOswald\_29, LestyG\_29, RagingRooster\_29, Neos5\_29, Gadget\_30, Corofin\_29, SlippinJimmy\_29, Devonte\_29, Heathcliff\_29, Akoma\_29, Chandler\_29, Abinghost\_29, Deenasa\_29, SynergyX\_29
- Track 37 : Gervas\_29, Rita1961\_29, Kronus\_28
- Track 38 : Athena\_30
- Track 39 : Ben11\_28
- Track 40 : Jackstina\_26, GlenHope\_30, Phlyer\_29, Yahalom\_29, Daisy\_29, Philly\_28, Compostia\_30
- Track 41 : MmasiCarm\_29
- Track 42 : Yinz\_29

- Track 43 : Phaedrus\_27, Tydolla\_29, Marley1013\_29, Morty007\_29
- Track 44 : RomaT\_29, Audrey\_29, Kamiyu\_29
- Track 45 : HarveySr\_29
- Track 46 : Phayeta\_29, Obutu\_29, Mortcellus\_28, Casbah\_28
- Track 47 : Pipefish\_30
- Track 48 : Halfpint\_28
- Track 49 : Nozo\_29
- Track 50 : Hally898\_25, Antihero\_25, Ahwei\_25, Lambano\_25, Epah\_25, GinPorsche\_25, Poster\_25, Nanao\_25
- Track 51 : BobbyK\_26, Magpie\_25, Frederick\_26, Apex\_26
- Track 52 : VioletZ\_26, BrownCNA\_27, Mithril\_26
- Track 53 : QueenPie\_25
- Track 54 : Hangman\_26, Waleliano\_26
- Track 55 : Stinger\_24
- Track 56 : Mudslide\_26
- Track 57 : RawrgerThat\_26, Fortunato\_26
- Track 58 : Xincheng\_25, JaguarMi\_26
- Track 59 : Fanaw\_25
- Track 60 : ChrisnMich\_25
- Track 61 : Heath\_25
- Track 62 : JAMaL\_26
- Track 63 : Cooper\_26
- Track 64 : Prince\_26
- Track 65 : AlanGrant\_27, Vincenzo\_27
- Track 66 : Austelle\_27
- Track 67 : Hydro\_26
- Track 68 : Lolalove\_26
- Track 69 : Nigel\_24
- Track 70 : Zemanar\_27
- Track 71 : Phelemich\_28, Reprobate\_28
- Track 72 : Serendipitous\_27
- Track 73 : SirJeffery\_28, Donny\_28, Suigeneris\_28
- Track 74 : Shenyu\_28, StinkyVeggy\_30, KarasumaRum\_30, Nangang\_28
- Track 75 : Rich\_27
- Track 76 : Acadian\_28
- Track 77 : DigitDog\_28
- Track 78 : Bae\_27
- Track 79 : EastView9101\_27
- Track 80 : Mysterious\_29
- Track 81 : Nehemiah\_27
- Track 82 : KayaCho\_24
- Track 83 : 40BC\_024, 39HC\_024
- Track 84 : Hosp\_022
- Track 85 : Jolie1\_024
- Track 86 : Saguaro\_29
- Track 87 : Thonko\_27
- Track 88 : Knocker\_30
- Track 89 : Rinkes\_31
- Track 90 : Funsized\_31
- Track 91 : Quesadilla\_29
- Track 92 : PenguinLover67\_30
- Track 93 : CRB2\_31
- Track 94 : CaiB\_27

- Track 95 : BiggityBass\_25
- Track 96 : NHagos\_25
- Track 97 : Sisko\_25
- Track 98 : CloverMinnie\_27
- Track 99 : CharlottesWeb\_25
- Track 100 : Wooper\_27
- Track 101 : AnClar\_26
- Track 102 : Fresco\_25, Axumite\_25, Shatter\_25, Ligma\_25
- Track 103 : Yago84\_25
- Track 104 : AnarQue\_27
- Track 105 : LittleMunchkin\_27
- Track 106 : BobRoss2024\_24
- Track 107 : Sour\_29
- Track 108 : MossRose\_27
- Track 109 : MakoManhole\_27
- Track 110 : Evaa\_26
- Track 111 : Coldpizza\_28
- Track 112 : Mariokart\_25
- Track 113 : GodPhather\_23
- Track 114 : Argie\_23
- Track 115 : D12\_22, Megabear\_22, PR\_22
- Track 116 : Jeon\_22
- Track 117 : Taptic\_22
- Track 118 : Cepens\_22
- Track 119 : StAugustine\_33
- Track 120 : Pine5\_28
- Track 121 : TPA2\_34

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

The start number called the most often in the published annotations is 13, it was called in 308 of the 419 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC\_024, 40BC\_024, ABU\_29, AbsoluteMadLad\_28, Acadian\_28, Adriana\_29, Aelin\_28, Ahwei\_25, AlanGrant\_27, AltPhacts\_29, Altwerkus\_28, Anderson\_29, Andre\_29, Antihero\_25, Antonia\_28, Apex\_26, Apizium\_28, Ashraf\_28, Austelle\_27, Badfish\_29, Bae\_27, Banjo\_28, Basato\_30, BatteryCK\_28, Beaglebox\_28, BirdsNest\_31, Bishoperium\_28, BlackStallion\_29, BlueHusk\_29, Bluephacebaby\_28, BobbyK\_26, Boehler\_29, Brilliant\_29, BrownCNA\_27, Buckeye\_29, Burr\_28, CRB2\_31, CamL\_29, CampRoach\_29, Cannibal\_29, Carthage\_27, Chaelin\_29, Chah\_30, Charles1\_29, CharlieGBrown\_28, CheetO\_29, Cher\_28, Childish\_28, Chorkpop\_29, ChrisnMich\_25, Chunky\_29, Chute\_28, Cobra\_29, Colbert\_29, Coletti\_28, Cooper\_26, Cornobble\_28, Cosmolli16\_28, Craff\_29, Crownjwl\_29, DaddyDaniels\_29, Daffy\_29, Daka\_29, Dati\_29, DelRivs\_28, Derpp\_28, Dice\_28, DigitDog\_28, Dingo\_29, Dione\_28, DirtJuice\_29, Doddsville\_29, DoesntMatter\_29, DonSanchon\_28, Donny\_28, DuchessDung\_27, Duggie\_28, Durga\_29, EastView9101\_27, Emiris\_29, EmpTee\_29, Epah\_25, Eremos\_29, Etaye\_29, Eugenia\_29, Fanaw\_25, Fang\_29, FluffyNinja\_29, Fortunato\_26, Fozzie\_28, Frankicide\_29, Frederick\_26, Freya\_28, FriarPreacher\_29, Fringe\_29,

FugateOSU\_28, Funsized\_31, Gareth\_28, GeneCoco\_29, GinPorsche\_25, Giraffe\_29, Gophee\_29, Grand2040\_28, Gwilliam\_29, Gyarad\_0029, HSavage\_29, Haimas\_29, Haleema\_28, Hally898\_25, Hamish\_29, Hangman\_26, Hartsy\_29, Harvey\_29, Hashim76\_32, Heath\_25, Held\_29, HenryJackson\_28, Hertubise\_29, Hetaeria\_29, HighStump\_28, Hocus\_28, Horchata\_29, Hosp\_022, Hydro\_26, ImtiyazSitla\_28, Imvubu\_22, Inchworm\_29, Indlovu\_26, Inverness\_29, Iridoclysis\_29, IsaacEli\_29, JAMaL\_26, JDog\_28, JacAttac\_29, JaguarMi\_26, JakeO\_28, JangoPhett\_29, Jillium\_28, Jiminy\_28, Jiraiya\_29, Jolie1\_024, KLucky39\_29, Kahve\_28, Kailash\_29, KarasumaRum\_30, Katniss\_29, KayaCho\_24, Keitherie\_29, Kikipoo\_29, Kimbrough\_29, KingTut\_20, KingVeVeVe\_29, KlimbOn\_29, Kloppinator\_29, Knocker\_30, Kwadwo\_28, Kwksand96\_28, Labeouficaum\_28, Lambano\_25, LasagnaCat\_29, Lasso\_29, LeeLot\_29, Lego3393\_29, Legolas\_28, LeiMonet\_29, LemonSlice\_29, LilMcDreamy\_25, Lolalove\_26, Longacauda\_28, Lopsy\_28, LostAndPhound\_28, LuckyMarjie\_28, Lulumae\_28, Lulwa\_29, Lumine\_28, MRabcd\_28, Mag7\_28, Magic8\_29, Magpie\_25, Mana\_28, Manad\_28, Maru\_28, Maskar\_28, Matalotodo\_29, Mcshane\_28, Mecca\_28, Megamind20\_29, Megatron\_29, Melc17\_29, MelsMeow\_28, Mesh1\_29, MichaelPhcott\_28, Mikota\_29, MiniBoss\_29, MitKao\_29, Mithril\_26, Morgushi\_29, Morty\_29, Mosaic\_28, MrPhizzler\_28, Mudslide\_26, Mulan\_28, Murdoc\_29, Mutante\_28, Nacho\_0029, Nanao\_25, Nangang\_28, Newman\_29, Nicole21\_29, Nigel\_24, Numberben\_29, Nyala\_28, OSmaximus\_29, Olak\_28, Oline\_28, Olive\_29, OliverWalter\_29, Omniscient\_29, Oosterbaan\_29, Orfeu\_28, Orion\_29, Orwigg\_29, PG1\_29, Pacifista\_28, PenguinLover67\_30, Phamished\_29, Phareon\_29, PhatCats2014\_29, PhatLouie\_29, PhenghisKhan\_28, Pherdinand\_29, Phergie\_28, Phipps\_29, Phleuron\_28, PhrankReynolds\_28, PhrodoBaggins\_28, Phunky\_29, Piglet\_0028, PinheadLarry\_29, Pinkman\_28, Pipsqueak\_29, Placalicious\_28, Plmatters\_29, Podrick\_29, Pops\_29, Poster\_25, Potter\_28, Prickles\_29, Prince\_26, ProfessorX\_29, Puhltonio\_29, QueenBeane\_29, QueenPie\_25, Quesadilla\_29, Quisquilliae\_29, RawrgerThat\_26, RedMaple\_28, Rich\_27, Ricotta\_28, Riggan\_29, Rimu\_30, Rinkes\_31, Robyn\_28, Roliet\_29, Roscoe\_30, Roy17\_29, SDcharge11\_29, Saguaro\_29, Samaymay\_29, SassyCat97\_28, Schadenfreude\_28, Schueller\_29, Scoot17C\_29, Scrick\_29, Selr12\_29, Serendipitous\_27, Serendipity\_29, Serpentine\_0029, Sheila\_29, Shenyu\_28, ShiVal\_29, Sigman\_29, SilverBell\_29, Simielle\_28, SirJeffery\_28, Skippy\_29, Slatt\_29, Soile\_29, Solosis\_28, Sophia\_28, Soto\_29, Spartan300\_29, Squid\_29, Squiggle\_29, Stinger\_24, StinkyVeggy\_30, Struggle\_28, Suffolk\_29, Suigeneris\_28, Surely\_29, Swiphy\_30, Swish\_29, TallGrassMM\_29, Telesworld\_28, Thora\_29, ThreeOh3D2\_29, Thunderbird\_28, Timmi\_28, TomBombadil\_29, Tomlarah\_29, Toni\_28, Tooj\_29, True\_28, Trypo\_29, TyrionL\_28, UAch1\_29, UncleHowie\_29, Usavi\_29, Vaishali24\_28, Valjean\_29, Vaticameos\_29, Veritas\_28, Vincenzo\_27, VioletZ\_26, Virapocalypse\_29, Virgeve\_28, Vista\_29, Vivaldi\_29, Vortex\_29, Waleliano\_26, Wallhey\_28, Waterdiva\_29, Weher20\_29, Windsor\_28, Xavier\_28, Xincheng\_25, Yoshand\_29, YouGoGlencoco\_29, Zaider\_30, Zelda\_29, Zemanar\_27, Zenteno07\_32, Zonia\_29,

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

- Wooper\_27,

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

- Abinghost\_29, Akoma\_29, Allegro\_30, AnClar\_26, AnarQue\_27, Arbiter\_30, Ares\_30, Argie\_23, Athena\_30, Audrey\_29, Axumite\_25, Baloo\_29, Bananafish\_30, Ben11\_28, Bernardo\_29, BiggityBass\_25, Blocker23\_30, BobRoss2024\_24, Boyle\_30, Briakila\_29, Brownie5\_30, CaiB\_27, Calamitous\_30, Casbah\_28, Cepens\_22, ChaChing\_29, Chandler\_29, CharlottesWeb\_25, CloverMinnie\_27,



Coffee\_30, Coldpizza\_28, Compostia\_30, Corofin\_29, D12\_22, Daisy\_29, Deenasa\_29, Devonte\_29, Dori\_25, Eaglehorse\_30, Evaa\_26, Faze9\_30, FrenchFry\_30, Fresco\_25, Gadget\_30, Gervas\_29, Glass\_30, GlenHope\_30, GodPhather\_23, Godines\_30, Halfpint\_28, HarveySr\_29, Heathcliff\_29, Hedgerow\_30, Holeinone\_30, ItsyBitsy1\_30, Jackstina\_26, Jeon\_22, Kaleb\_30, Kamiyu\_29, Kheth\_30, Kronus\_28, Lars\_30, Laurie\_30, Lephleur\_30, LestyG\_29, Ligma\_25, LittleMunchkin\_27, LizLemon\_30, MakoManhole\_27, Mao1\_24, Mariokart\_25, Marley1013\_29, Mask\_25, MasterPo\_30, Megabear\_22, MmasiCarm\_29, Mortcellus\_28, Morty007\_29, MossRose\_27, Mysterious\_29, NHagos\_25, Nehemiah\_27, Neos5\_29, Nozo\_29, Obutu\_29, Opia\_30, OrangeOswald\_29, PR\_22, Phaedrus\_27, Phantasmagoria\_30, Phayeta\_29, Phelemich\_28, Philly\_28, Phlyer\_29, Pine5\_28, Pipefish\_30, Qyrzula\_28, RagingRooster\_29, Reprobate\_28, Rhinoforte\_30, Rita1961\_29, RomaT\_29, Rosebush\_30, Sabella\_30, Sejanus\_25, Shatter\_25, Sisko\_25, SlippinJimmy\_29, Sour\_29, StAugustine\_33, SynergyX\_29, TA17A\_30, TPA2\_34, Taptic\_22, Thonko\_27, Tinciduntolum\_31, Tres\_30, Tydolla\_29, Vic9\_31, West99\_30, Yago84\_25, Yahalom\_29, Yinz\_29,

### Summary by start number:

#### Start 3:

- Found in 18 of 467 ( 3.9% ) of genes in pham
- Manual Annotations of this start: 17 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnClar\_26 (DR), AnarQue\_27 (DR), Axumite\_25 (DR), BiggityBass\_25 (DR), BobRoss2024\_24 (DR), CaiB\_27 (DR), CloverMinnie\_27 (DR), Fresco\_25 (DR), Ligma\_25 (DR), LittleMunchkin\_27 (DR), MakoManhole\_27 (DR), MossRose\_27 (DR), NHagos\_25 (DR), Shatter\_25 (DR), Sisko\_25 (DR), Sour\_29 (DR), Wooper\_27 (DR), Yago84\_25 (DR),

#### Start 4:

- Found in 5 of 467 ( 1.1% ) of genes in pham
- Manual Annotations of this start: 2 of 419
- Called 80.0% of time when present
- Phage (with cluster) where this start called: CharlottesWeb\_25 (DR), Coldpizza\_28 (DR), Evaa\_26 (DR), Mariokart\_25 (DR),

#### Start 9:

- Found in 2 of 467 ( 0.4% ) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bernardo\_29 (B3),

#### Start 13:

- Found in 344 of 467 ( 73.7% ) of genes in pham
- Manual Annotations of this start: 308 of 419
- Called 99.7% of time when present
- Phage (with cluster) where this start called: 39HC\_024 (B6), 40BC\_024 (B6), ABU\_29 (B1), AbsoluteMadLad\_28 (B1), Acadian\_28 (B5), Adriana\_29 (B1), Aelin\_28 (B1), Ahwei\_25 (B4), AlanGrant\_27 (B4), AltPhacts\_29 (B1), Altwerkus\_28 (B1), Anderson\_29 (B1), Andre\_29 (B1), Antihero\_25 (B4), Antonia\_28 (B1), Apex\_26 (B4), Apizium\_28 (B1), Ashraf\_28 (B1), Austelle\_27 (B4), Badfish\_29 (B1), Bae\_27 (B5), Banjo\_28 (B1), Basato\_30 (B1), BatteryCK\_28 (B1), Beaglebox\_28

(B1), BirdsNest\_31 (B13), Bishoperium\_28 (B1), BlackStallion\_29 (B1), BlueHusk\_29 (B1), Bluephacebaby\_28 (B1), BobbyK\_26 (B4), Boehler\_29 (B1), Brilliant\_29 (B1), BrownCNA\_27 (B4), Buckeye\_29 (B1), Burr\_28 (B1), CRB2\_31 (B9), CamL\_29 (B1), CampRoach\_29 (B1), Cannibal\_29 (B1), Carthage\_27 (B1), Chaelin\_29 (B1), Chah\_30 (B1), Charles1\_29 (B1), CharlieGBrown\_28 (B1), CheetO\_29 (B1), Cher\_28 (B1), Childish\_28 (B1), Chorkpop\_29 (B1), ChrisnMich\_25 (B4), Chunky\_29 (B1), Chute\_28 (B1), Cobra\_29 (B1), Colbert\_29 (B1), Coletti\_28 (B1), Cooper\_26 (B4), Cornobble\_28 (B1), Cosmolli16\_28 (B1), Craff\_29 (B1), Crownjwl\_29 (B1), DaddyDaniels\_29 (B1), Daffy\_29 (B1), Daka\_29 (B1), Dati\_29 (B1), DelRivs\_28 (B1), Derpp\_28 (B1), Dice\_28 (B1), DigitDog\_28 (B5), Dingo\_29 (B1), Dione\_28 (B1), DirtJuice\_29 (B1), Doddsville\_29 (B1), DoesntMatter\_29 (B1), DonSanchon\_28 (B1), Donny\_28 (B5), DuchessDung\_27 (B1), Duggie\_28 (B1), Durga\_29 (B1), EastView9101\_27 (B5), Emiris\_29 (B1), EmpTee\_29 (B1), Epah\_25 (B4), Eremos\_29 (B1), Etaye\_29 (B1), Eugenia\_29 (B1), Fanaw\_25 (B4), Fang\_29 (B1), FluffyNinja\_29 (B1), Fortunato\_26 (B4), Fozzie\_28 (B1), Frankicide\_29 (B1), Frederick\_26 (B4), Freya\_28 (B1), FriarPreacher\_29 (B1), Fringe\_29 (B1), FugateOSU\_28 (B1), Funsized\_31 (B9), Gareth\_28 (B1), GeneCoco\_29 (B1), GinPorsche\_25 (B4), Giraffe\_29 (B1), Gophee\_29 (B1), Grand2040\_28 (B1), Gwilliam\_29 (B1), Gyarad\_0029 (B1), HSavage\_29 (B1), Haimas\_29 (B1), Haleema\_28 (B1), Hally898\_25 (B4), Hamish\_29 (B1), Hangman\_26 (B4), Hartsy\_29 (B1), Harvey\_29 (B1), Hashim76\_32 (B13), Heath\_25 (B4), Held\_29 (B1), HenryJackson\_28 (B1), Hertubise\_29 (B1), Hetaeria\_29 (B1), HighStump\_28 (B1), Hocus\_28 (B1), Horchata\_29 (B1), Hosp\_022 (B6), Hydro\_26 (B4), ImtiyazSitla\_28 (B1), Imvubu\_22 (B10), Inchworm\_29 (B1), Indlovu\_26 (B11), Inverness\_29 (B1), Iridoclysis\_29 (B1), IsaacEli\_29 (B1), JAMaL\_26 (B4), JDog\_28 (B1), JacAttac\_29 (B1), JaguarMi\_26 (B4), JakeO\_28 (B1), JangoPhett\_29 (B1), Jillium\_28 (B1), Jiminy\_28 (B1), Jiraiya\_29 (B1), Jolie1\_024 (B6), KLucky39\_29 (B1), Kahve\_28 (B1), Kailash\_29 (B1), KarasumaRum\_30 (B5), Katniss\_29 (B1), KayaCho\_24 (B6), Keitherie\_29 (B1), Kikipoo\_29 (B1), Kimbrough\_29 (B1), KingTut\_20 (B1), KingVeVeVe\_29 (B1), KlimbOn\_29 (B1), Kloppinator\_29 (B1), Knocker\_30 (B9), Kwadwo\_28 (B1), Kwksand96\_28 (B1), Labeouficaum\_28 (B1), Lambano\_25 (B4), LasagnaCat\_29 (B1), Lasso\_29 (B1), LeeLot\_29 (B1), Lego3393\_29 (B1), Legolas\_28 (B1), LeiMonet\_29 (B1), LemonSlice\_29 (B1), LilMcDreamy\_25 (B12), Lolalove\_26 (B4), Longacauda\_28 (B1), Lopsy\_28 (B1), LostAndPhound\_28 (B1), LuckyMarjie\_28 (B1), Lulumae\_28 (B1), Lulwa\_29 (B1), Lumine\_28 (B1), MRabcd\_28 (B1), Mag7\_28 (B1), Magic8\_29 (B1), Magpie\_25 (B4), Mana\_28 (B1), Manad\_28 (B1), Maru\_28 (B1), Maskar\_28 (B1), Matalotodo\_29 (B1), Mcshane\_28 (B1), Mecca\_28 (B1), Megamind20\_29 (B1), Megatron\_29 (B1), Melc17\_29 (B1), MelsMeow\_28 (B1), Mesh1\_29 (B1), MichaelPhcott\_28 (B1), Mikota\_29 (B1), MiniBoss\_29 (B1), MitKao\_29 (B1), Mithril\_26 (B4), Morgushi\_29 (B1), Morty\_29 (B1), Mosaic\_28 (B1), MrPhizzler\_28 (B1), Mudslide\_26 (B4), Mulan\_28 (B1), Murdoc\_29 (B1), Mutante\_28 (B1), Nacho\_0029 (B1), Nanao\_25 (B4), Nangang\_28 (B5), Newman\_29 (B1), Nicole21\_29 (B1), Nigel\_24 (B4), Numberten\_29 (B1), Nyala\_28 (B1), OSmaximus\_29 (B1), Olak\_28 (B1), Oline\_28 (B1), Olive\_29 (B1), OliverWalter\_29 (B1), Omniscient\_29 (B1), Oosterbaan\_29 (B1), Orfeu\_28 (B1), Orion\_29 (B1), Orwigg\_29 (B1), PG1\_29 (B1), Pacifista\_28 (B1), PenguinLover67\_30 (B9), Phamished\_29 (B1), Phareon\_29 (B1), PhatCats2014\_29 (B1), PhatLouie\_29 (B1), PhenghisKhan\_28 (B1), Pherdinand\_29 (B1), Phergie\_28 (B1), Phipps\_29 (B1), Phleuron\_28 (B1), PhrankReynolds\_28 (B1), PhrodoBaggins\_28 (B1), Phunky\_29 (B1), Piglet\_0028 (B1), PinheadLarry\_29 (B1), Pinkman\_28 (B1), Pipsqueak\_29 (B1), Placalicious\_28 (B1), Plmatters\_29 (B1), Podrick\_29 (B1), Pops\_29 (B1), Poster\_25 (B4), Potter\_28 (B1), Prickles\_29 (B1), Prince\_26 (B4), ProfessorX\_29 (B1), Puhltonio\_29 (B1), QueenBeane\_29 (B1), QueenPie\_25 (B4), Quesadilla\_29 (B9),

Quisquilliae\_29 (B1), RawrgerThat\_26 (B4), RedMaple\_28 (B1), Rich\_27 (B5), Ricotta\_28 (B1), Riggan\_29 (B1), Rimu\_30 (B1), Rinkes\_31 (B9), Robyn\_28 (B1), Roliet\_29 (B1), Roscoe\_30 (B1), Roy17\_29 (B1), SDcharge11\_29 (B1), Saguario\_29 (B7), Samaymay\_29 (B1), SassyCat97\_28 (B1), Schadenfreude\_28 (B1), Schueller\_29 (B1), Scoot17C\_29 (B1), Scrick\_29 (B1), Selr12\_29 (B1), Serendipitous\_27 (B5), Serendipity\_29 (B1), Serpentine\_0029 (B1), Sheila\_29 (B1), Shenyu\_28 (B5), ShiVal\_29 (B1), Sigman\_29 (B1), SilverBell\_29 (B1), Simielle\_28 (B1), SirJeffery\_28 (B5), Skippy\_29 (B1), Slatt\_29 (B1), Soile\_29 (B1), Solosis\_28 (B1), Sophia\_28 (B1), Soto\_29 (B1), Spartan300\_29 (B1), Squid\_29 (B1), Squiggle\_29 (B1), Stinger\_24 (B4), StinkyVeggy\_30 (B5), Struggle\_28 (B1), Suffolk\_29 (B1), Suigeneris\_28 (B5), Surely\_29 (B1), Swiphy\_30 (B1), Swish\_29 (B1), TallGrassMM\_29 (B1), Telesworld\_28 (B1), Thora\_29 (B1), ThreeOh3D2\_29 (B1), Thunderbird\_28 (B1), Timmi\_28 (B1), TomBombadil\_29 (B1), Tomlarah\_29 (B1), Toni\_28 (B1), Tooj\_29 (B1), True\_28 (B1), Trypo\_29 (B1), TyrionL\_28 (B1), UAch1\_29 (B1), UncleHowie\_29 (B1), Usavi\_29 (B1), Vaishali24\_28 (B1), Valjean\_29 (B1), Vaticameos\_29 (B1), Veritas\_28 (B1), Vincenzo\_27 (B4), VioletZ\_26 (B4), Virapocalypse\_29 (B1), Virgeve\_28 (B1), Vista\_29 (B1), Vivaldi\_29 (B1), Vortex\_29 (B1), Waleliano\_26 (B4), Wallhey\_28 (B1), Waterdiva\_29 (B1), Weher20\_29 (B1), Windsor\_28 (B1), Xavier\_28 (B1), Xincheng\_25 (B4), Yoshand\_29 (B1), YouGoGlencoco\_29 (B1), Zaider\_30 (B1), Zelda\_29 (B1), Zemanar\_27 (B4), Zenteno07\_32 (B13), Zonia\_29 (B1),

#### Start 14:

- Found in 92 of 467 ( 19.7% ) of genes in pham
- Manual Annotations of this start: 83 of 419
- Called 98.9% of time when present
- Phage (with cluster) where this start called: Abinghost\_29 (B3), Akoma\_29 (B3), Allegro\_30 (B2), Arbiter\_30 (B2), Ares\_30 (B2), Athena\_30 (B3), Audrey\_29 (B3), Baloo\_29 (B3), Bananafish\_30 (B2), Ben11\_28 (B3), Blocker23\_30 (B2), Boyle\_30 (B2), Briakila\_29 (B3), Brownie5\_30 (B2), Calamitous\_30 (B2), Casbah\_28 (B3), ChaChing\_29 (B3), Chandler\_29 (B3), Coffee\_30 (B2), Compostia\_30 (B3), Corofin\_29 (B3), Daisy\_29 (B3), Deenasa\_29 (B3), Devonte\_29 (B3), Dori\_25 (AD), Eaglehorse\_30 (B2), Faze9\_30 (B2), FrenchFry\_30 (B2), Gadget\_30 (B3), Gervas\_29 (B3), Glass\_30 (B2), GlenHope\_30 (B3), Godines\_30 (B2), Halfpint\_28 (B3), HarveySr\_29 (B3), Heathcliff\_29 (B3), Hedgerow\_30 (B2), Holeinone\_30 (B2), ItsyBitsy1\_30 (B2), Jackstina\_26 (B3), Kaleb\_30 (B2), Kamiyu\_29 (B3), Kheth\_30 (B2), Kronus\_28 (B3), Lars\_30 (B2), Laurie\_30 (B2), Lephleur\_30 (B2), LestyG\_29 (B3), LizLemon\_30 (B2), Mao1\_24 (AD), Marley1013\_29 (B3), Mask\_25 (AD), MasterPo\_30 (B2), MmasiCarm\_29 (B3), Mortcellus\_28 (B3), Morty007\_29 (B3), Mysterious\_29 (B5), Nehemiah\_27 (B5), Neos5\_29 (B3), Nozo\_29 (B3), Obutu\_29 (B3), Opia\_30 (B2), OrangeOswald\_29 (B3), Phaedrus\_27 (B3), Phantasmagoria\_30 (B2), Phayeta\_29 (B3), Phelemich\_28 (B5), Philly\_28 (B3), Phlyer\_29 (B3), Pipefish\_30 (B3), Qyrzula\_28 (B2), RagingRooster\_29 (B3), Reprobate\_28 (B5), Rhinoforte\_30 (B2), Rita1961\_29 (B3), RomaT\_29 (B3), Rosebush\_30 (B2), Sabella\_30 (B2), Sejanus\_25 (AD), SlippinJimmy\_29 (B3), StAugustine\_33 (singleton), SynergyX\_29 (B3), TA17A\_30 (B2), Thonko\_27 (B8), Tinciduntolum\_31 (B2), Tres\_30 (B2), Tydolla\_29 (B3), Vic9\_31 (B2), West99\_30 (B2), Yahalom\_29 (B3), Yinz\_29 (B3),

#### Start 15:

- Found in 8 of 467 ( 1.7% ) of genes in pham
- Manual Annotations of this start: 8 of 419
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Argie\_23 (W), Cepens\_22 (W), D12\_22 (W), GodPhather\_23 (W), Jeon\_22 (W), Megabear\_22 (W), PR\_22 (W), Taptic\_22 (W),

Start 42:

- Found in 2 of 467 ( 0.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Pine5\_28 (singleton),

Start 77:

- Found in 449 of 467 ( 96.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 0.2% of time when present
- Phage (with cluster) where this start called: TPA2\_34 (singleton),

### **Summary by clusters:**

There are 17 clusters represented in this pham: singleton, W, B10, B8, B11, B4, B5, B6, B7, B12, B1, B2, B3, AD, DR, B9, B13,

Info for manual annotations of cluster AD:

- Start number 14 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster B1:

- Start number 13 was manually annotated 263 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 13 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 13 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 13 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 13 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 14 was manually annotated 32 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 9 was manually annotated 1 time for cluster B3.
- Start number 14 was manually annotated 44 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 13 was manually annotated 25 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 13 was manually annotated 7 times for cluster B5.
- Start number 14 was manually annotated 2 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 13 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 13 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 14 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 13 was manually annotated 6 times for cluster B9.

Info for manual annotations of cluster DR:

- Start number 3 was manually annotated 17 times for cluster DR.
- Start number 4 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster W:

- Start number 15 was manually annotated 8 times for cluster W.

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

Gene: 39HC\_024 Start: 25054, Stop: 26487, Start Num: 13

Candidate Starts for 39HC\_024:

(Start: 13 @25054 has 308 MA's), (23, 25111), (26, 25129), (33, 25171), (59, 25297), (63, 25336), (68, 25396), (74, 25450), (76, 25483), (77, 25486), (85, 25537), (97, 25609), (107, 25705), (116, 25768), (117, 25771), (121, 25792), (124, 25804), (128, 25840), (139, 25909), (143, 25930), (150, 25990), (158, 26038), (162, 26071), (163, 26077), (168, 26107), (173, 26149), (186, 26257), (195, 26317), (202, 26353), (203, 26356), (211, 26422),

Gene: 40BC\_024 Start: 25054, Stop: 26487, Start Num: 13

Candidate Starts for 40BC\_024:

(Start: 13 @25054 has 308 MA's), (23, 25111), (26, 25129), (33, 25171), (59, 25297), (63, 25336), (68, 25396), (74, 25450), (76, 25483), (77, 25486), (85, 25537), (97, 25609), (107, 25705), (116, 25768), (117, 25771), (121, 25792), (124, 25804), (128, 25840), (139, 25909), (143, 25930), (150, 25990), (158, 26038), (162, 26071), (163, 26077), (168, 26107), (173, 26149), (186, 26257), (195, 26317), (202, 26353), (203, 26356), (211, 26422),

Gene: ABU\_29 Start: 26217, Stop: 27650, Start Num: 13

Candidate Starts for ABU\_29:

(Start: 13 @26217 has 308 MA's), (23, 26274), (27, 26298), (32, 26322), (48, 26397), (74, 26613), (75, 26640), (77, 26649), (79, 26670), (83, 26691), (85, 26700), (94, 26763), (105, 26856), (112, 26913), (116, 26931), (136, 27063), (145, 27111), (150, 27153), (151, 27159), (152, 27162), (158, 27201), (162, 27234), (163, 27240), (164, 27249), (167, 27264), (172, 27309), (185, 27414), (191, 27450), (201, 27510), (203, 27519), (212, 27588),

Gene: Abinghost\_29 Start: 26146, Stop: 27576, Start Num: 14

Candidate Starts for Abinghost\_29:

(Start: 14 @26146 has 83 MA's), (23, 26203), (27, 26227), (28, 26236), (50, 26323), (67, 26473), (70, 26500), (77, 26575), (82, 26605), (85, 26626), (87, 26644), (97, 26698), (99, 26731), (117, 26860), (129, 26938), (130, 26950), (133, 26971), (135, 26986), (139, 26998), (150, 27079), (151, 27085), (159, 27133), (161, 27145), (166, 27187), (170, 27205), (173, 27238), (181, 27286), (186, 27346),

(188, 27361), (191, 27376), (192, 27379), (202, 27442), (212, 27514), (216, 27544),

Gene: AbsoluteMadLad\_28 Start: 26226, Stop: 27659, Start Num: 13

Candidate Starts for AbsoluteMadLad\_28:

(Start: 13 @26226 has 308 MA's), (23, 26283), (27, 26307), (32, 26331), (48, 26406), (74, 26622), (75, 26649), (77, 26658), (79, 26679), (83, 26700), (85, 26709), (94, 26772), (105, 26865), (112, 26922), (116, 26940), (136, 27072), (145, 27120), (150, 27162), (151, 27168), (152, 27171), (158, 27210), (162, 27243), (163, 27249), (164, 27258), (167, 27273), (172, 27318), (185, 27423), (191, 27459), (201, 27519), (203, 27528), (212, 27597),

Gene: Acadian\_28 Start: 26458, Stop: 27891, Start Num: 13

Candidate Starts for Acadian\_28:

(5, 26392), (Start: 13 @26458 has 308 MA's), (29, 26554), (31, 26560), (41, 26611), (54, 26659), (61, 26710), (63, 26740), (69, 26803), (77, 26890), (78, 26896), (83, 26932), (85, 26941), (92, 26992), (115, 27163), (117, 27175), (139, 27313), (142, 27331), (150, 27394), (168, 27511), (169, 27517), (186, 27661), (194, 27703), (216, 27859), (217, 27865),

Gene: Adriana\_29 Start: 26215, Stop: 27648, Start Num: 13

Candidate Starts for Adriana\_29:

(Start: 13 @26215 has 308 MA's), (23, 26272), (27, 26296), (32, 26320), (48, 26395), (74, 26611), (75, 26638), (77, 26647), (79, 26668), (83, 26689), (85, 26698), (94, 26761), (105, 26854), (112, 26911), (116, 26929), (136, 27061), (145, 27109), (150, 27151), (151, 27157), (152, 27160), (158, 27199), (162, 27232), (163, 27238), (164, 27247), (167, 27262), (172, 27307), (185, 27412), (191, 27448), (201, 27508), (203, 27517), (212, 27586),

Gene: Aelin\_28 Start: 25778, Stop: 27211, Start Num: 13

Candidate Starts for Aelin\_28:

(Start: 13 @25778 has 308 MA's), (23, 25835), (27, 25859), (32, 25883), (48, 25958), (74, 26174), (75, 26201), (77, 26210), (79, 26231), (83, 26252), (85, 26261), (94, 26324), (105, 26417), (112, 26474), (116, 26492), (136, 26624), (145, 26672), (150, 26714), (151, 26720), (152, 26723), (158, 26762), (162, 26795), (163, 26801), (164, 26810), (167, 26825), (172, 26870), (185, 26975), (191, 27011), (201, 27071), (203, 27080), (212, 27149),

Gene: Ahwei\_25 Start: 25433, Stop: 26866, Start Num: 13

Candidate Starts for Ahwei\_25:

(Start: 13 @25433 has 308 MA's), (20, 25466), (23, 25490), (24, 25493), (28, 25523), (35, 25562), (36, 25565), (38, 25571), (48, 25613), (57, 25646), (62, 25688), (63, 25715), (74, 25829), (76, 25862), (77, 25865), (78, 25871), (83, 25907), (85, 25916), (92, 25967), (98, 26009), (107, 26084), (109, 26120), (115, 26138), (116, 26147), (117, 26150), (121, 26171), (129, 26228), (130, 26240), (137, 26282), (139, 26288), (150, 26369), (151, 26375), (154, 26399), (158, 26417), (162, 26450), (164, 26465), (166, 26477), (173, 26528), (176, 26540), (190, 26663), (191, 26666), (202, 26732), (205, 26753), (211, 26801), (217, 26840), (220, 26861),

Gene: Akoma\_29 Start: 26147, Stop: 27577, Start Num: 14

Candidate Starts for Akoma\_29:

(Start: 14 @26147 has 83 MA's), (23, 26204), (27, 26228), (28, 26237), (50, 26324), (67, 26474), (70, 26501), (77, 26576), (82, 26606), (85, 26627), (87, 26645), (97, 26699), (99, 26732), (117, 26861), (129, 26939), (130, 26951), (133, 26972), (135, 26987), (139, 26999), (150, 27080), (151, 27086), (159, 27134), (161, 27146), (166, 27188), (170, 27206), (173, 27239), (181, 27287), (186, 27347), (188, 27362), (191, 27377), (192, 27380), (202, 27443), (212, 27515), (216, 27545),

Gene: AlanGrant\_27 Start: 27172, Stop: 28605, Start Num: 13

Candidate Starts for AlanGrant\_27:

(Start: 13 @27172 has 308 MA's), (23, 27229), (28, 27262), (38, 27310), (44, 27337), (48, 27352), (62, 27427), (63, 27454), (68, 27514), (74, 27568), (76, 27601), (77, 27604), (89, 27685), (92, 27706), (98, 27748), (105, 27811), (109, 27859), (116, 27886), (117, 27889), (128, 27958), (129, 27967), (130, 27979), (132, 27985), (139, 28027), (142, 28045), (145, 28066), (150, 28108), (151, 28114), (157, 28153), (162, 28189), (173, 28267), (176, 28279), (187, 28384), (191, 28405), (202, 28471), (211, 28540), (212, 28543), (216, 28573), (217, 28579), (219, 28588), (220, 28600),

Gene: Allegro\_30 Start: 27475, Stop: 28911, Start Num: 14

Candidate Starts for Allegro\_30:

(Start: 14 @27475 has 83 MA's), (20, 27508), (23, 27532), (24, 27535), (27, 27556), (31, 27577), (39, 27610), (49, 27655), (52, 27664), (62, 27727), (76, 27907), (77, 27910), (79, 27931), (84, 27955), (85, 27961), (87, 27979), (91, 28009), (92, 28012), (95, 28027), (97, 28033), (104, 28102), (108, 28156), (112, 28174), (116, 28192), (117, 28195), (122, 28219), (129, 28273), (134, 28312), (138, 28330), (142, 28351), (149, 28408), (150, 28414), (152, 28423), (161, 28480), (168, 28531), (170, 28540), (173, 28573), (175, 28582), (184, 28648), (187, 28690), (191, 28711), (194, 28723), (195, 28741), (203, 28780), (211, 28846), (212, 28849), (216, 28879),

Gene: AltPhacts\_29 Start: 26204, Stop: 27637, Start Num: 13

Candidate Starts for AltPhacts\_29:

(Start: 13 @26204 has 308 MA's), (23, 26261), (27, 26285), (32, 26309), (48, 26384), (74, 26600), (75, 26627), (77, 26636), (79, 26657), (83, 26678), (85, 26687), (94, 26750), (105, 26843), (112, 26900), (116, 26918), (136, 27050), (145, 27098), (150, 27140), (151, 27146), (152, 27149), (158, 27188), (162, 27221), (163, 27227), (164, 27236), (167, 27251), (172, 27296), (185, 27401), (191, 27437), (201, 27497), (203, 27506), (212, 27575),

Gene: Altwerkus\_28 Start: 25904, Stop: 27337, Start Num: 13

Candidate Starts for Altwerkus\_28:

(Start: 13 @25904 has 308 MA's), (23, 25961), (27, 25985), (32, 26009), (48, 26084), (74, 26300), (75, 26327), (77, 26336), (79, 26357), (83, 26378), (85, 26387), (94, 26450), (105, 26543), (112, 26600), (116, 26618), (136, 26750), (145, 26798), (150, 26840), (151, 26846), (152, 26849), (158, 26888), (162, 26921), (163, 26927), (164, 26936), (167, 26951), (172, 26996), (185, 27101), (191, 27137), (201, 27197), (203, 27206), (212, 27275),

Gene: AnClar\_26 Start: 25988, Stop: 27517, Start Num: 3

Candidate Starts for AnClar\_26:

(Start: 3 @25988 has 17 MA's), (7, 26021), (46, 26252), (77, 26516), (80, 26540), (83, 26558), (85, 26567), (91, 26615), (92, 26618), (97, 26639), (112, 26780), (115, 26789), (116, 26798), (117, 26801), (121, 26822), (128, 26870), (130, 26891), (135, 26927), (150, 27020), (151, 27026), (158, 27068), (162, 27101), (163, 27107), (164, 27116), (182, 27239), (186, 27287),

Gene: AnarQue\_27 Start: 25498, Stop: 27024, Start Num: 3

Candidate Starts for AnarQue\_27:

(Start: 3 @25498 has 17 MA's), (7, 25531), (10, 25555), (11, 25558), (17, 25600), (18, 25603), (44, 25753), (70, 25948), (75, 26014), (82, 26053), (93, 26128), (105, 26230), (112, 26287), (118, 26311), (128, 26377), (129, 26386), (130, 26398), (131, 26401), (137, 26440), (141, 26461), (150, 26527), (151, 26533), (157, 26572), (158, 26575), (162, 26608), (166, 26635), (168, 26644), (170, 26653), (176, 26698), (181, 26734), (182, 26746), (186, 26794), (201, 26884), (211, 26959), (216, 26992),

Gene: Anderson\_29 Start: 26210, Stop: 27643, Start Num: 13

Candidate Starts for Anderson\_29:

(Start: 13 @26210 has 308 MA's), (23, 26267), (27, 26291), (32, 26315), (48, 26390), (74, 26606), (75, 26633), (77, 26642), (79, 26663), (83, 26684), (85, 26693), (94, 26756), (105, 26849), (112, 26906), (116, 26924), (136, 27056), (145, 27104), (150, 27146), (151, 27152), (152, 27155), (158, 27194),

(162, 27227), (163, 27233), (164, 27242), (167, 27257), (172, 27302), (185, 27407), (191, 27443), (201, 27503), (203, 27512), (212, 27581),

Gene: Andre\_29 Start: 26208, Stop: 27641, Start Num: 13

Candidate Starts for Andre\_29:

(Start: 13 @26208 has 308 MA's), (23, 26265), (27, 26289), (32, 26313), (48, 26388), (74, 26604), (75, 26631), (77, 26640), (79, 26661), (83, 26682), (85, 26691), (94, 26754), (105, 26847), (112, 26904), (116, 26922), (136, 27054), (145, 27102), (150, 27144), (151, 27150), (152, 27153), (158, 27192), (162, 27225), (163, 27231), (164, 27240), (167, 27255), (172, 27300), (185, 27405), (191, 27441), (201, 27501), (203, 27510), (212, 27579),

Gene: Antihero\_25 Start: 25433, Stop: 26866, Start Num: 13

Candidate Starts for Antihero\_25:

(Start: 13 @25433 has 308 MA's), (20, 25466), (23, 25490), (24, 25493), (28, 25523), (35, 25562), (36, 25565), (38, 25571), (48, 25613), (57, 25646), (62, 25688), (63, 25715), (74, 25829), (76, 25862), (77, 25865), (78, 25871), (83, 25907), (85, 25916), (92, 25967), (98, 26009), (107, 26084), (109, 26120), (115, 26138), (116, 26147), (117, 26150), (121, 26171), (129, 26228), (130, 26240), (137, 26282), (139, 26288), (150, 26369), (151, 26375), (154, 26399), (158, 26417), (162, 26450), (164, 26465), (166, 26477), (173, 26528), (176, 26540), (190, 26663), (191, 26666), (202, 26732), (205, 26753), (211, 26801), (217, 26840), (220, 26861),

Gene: Antonia\_28 Start: 25778, Stop: 27211, Start Num: 13

Candidate Starts for Antonia\_28:

(Start: 13 @25778 has 308 MA's), (23, 25835), (27, 25859), (32, 25883), (48, 25958), (74, 26174), (75, 26201), (77, 26210), (79, 26231), (83, 26252), (85, 26261), (94, 26324), (105, 26417), (112, 26474), (116, 26492), (136, 26624), (145, 26672), (150, 26714), (151, 26720), (152, 26723), (158, 26762), (162, 26795), (163, 26801), (164, 26810), (167, 26825), (172, 26870), (185, 26975), (191, 27011), (201, 27071), (203, 27080), (212, 27149),

Gene: Apex\_26 Start: 26640, Stop: 28073, Start Num: 13

Candidate Starts for Apex\_26:

(Start: 13 @26640 has 308 MA's), (20, 26673), (23, 26697), (24, 26700), (28, 26730), (36, 26772), (38, 26778), (48, 26820), (57, 26853), (62, 26895), (74, 27036), (77, 27072), (78, 27078), (83, 27114), (85, 27123), (92, 27174), (98, 27216), (109, 27327), (115, 27345), (116, 27354), (121, 27378), (129, 27435), (130, 27447), (137, 27489), (139, 27495), (150, 27576), (151, 27582), (154, 27606), (158, 27624), (162, 27657), (164, 27672), (166, 27684), (173, 27735), (176, 27747), (190, 27870), (191, 27873), (202, 27939), (205, 27960), (211, 28008), (217, 28047), (220, 28068),

Gene: Apizium\_28 Start: 25969, Stop: 27402, Start Num: 13

Candidate Starts for Apizium\_28:

(Start: 13 @25969 has 308 MA's), (23, 26026), (27, 26050), (32, 26074), (48, 26149), (74, 26365), (75, 26392), (77, 26401), (79, 26422), (83, 26443), (85, 26452), (94, 26515), (105, 26608), (112, 26665), (116, 26683), (136, 26815), (145, 26863), (150, 26905), (151, 26911), (152, 26914), (158, 26953), (162, 26986), (163, 26992), (164, 27001), (172, 27061), (185, 27166), (191, 27202), (201, 27262), (203, 27271), (212, 27340),

Gene: Arbiter\_30 Start: 27564, Stop: 29000, Start Num: 14

Candidate Starts for Arbiter\_30:

(Start: 14 @27564 has 83 MA's), (20, 27597), (23, 27621), (24, 27624), (27, 27645), (31, 27666), (39, 27699), (49, 27744), (52, 27753), (62, 27816), (76, 27996), (77, 27999), (79, 28020), (84, 28044), (85, 28050), (87, 28068), (91, 28098), (92, 28101), (95, 28116), (97, 28122), (104, 28191), (108, 28245), (112, 28263), (116, 28281), (117, 28284), (122, 28308), (129, 28362), (134, 28401), (138, 28419), (142, 28440), (149, 28497), (150, 28503), (152, 28512), (161, 28569), (168, 28620), (170, 28629),



(173, 28662), (175, 28671), (184, 28737), (187, 28779), (191, 28800), (194, 28812), (195, 28830), (203, 28869), (211, 28935), (212, 28938), (216, 28968),

Gene: Ares\_30 Start: 27486, Stop: 28922, Start Num: 14

Candidate Starts for Ares\_30:

(Start: 14 @27486 has 83 MA's), (20, 27519), (23, 27543), (24, 27546), (27, 27567), (31, 27588), (39, 27621), (49, 27666), (52, 27675), (62, 27738), (76, 27918), (77, 27921), (79, 27942), (84, 27966), (85, 27972), (87, 27990), (91, 28020), (92, 28023), (95, 28038), (97, 28044), (104, 28113), (108, 28167), (112, 28185), (116, 28203), (117, 28206), (122, 28230), (129, 28284), (134, 28323), (138, 28341), (142, 28362), (149, 28419), (150, 28425), (152, 28434), (161, 28491), (168, 28542), (170, 28551), (173, 28584), (175, 28593), (184, 28659), (187, 28701), (191, 28722), (194, 28734), (195, 28752), (203, 28791), (211, 28857), (212, 28860), (216, 28890),

Gene: Argie\_23 Start: 25025, Stop: 26461, Start Num: 15

Candidate Starts for Argie\_23:

(Start: 15 @25025 has 8 MA's), (19, 25046), (20, 25055), (49, 25202), (52, 25211), (64, 25313), (66, 25331), (70, 25382), (72, 25412), (75, 25448), (77, 25457), (80, 25481), (82, 25487), (92, 25559), (112, 25721), (114, 25727), (116, 25739), (117, 25742), (122, 25766), (129, 25820), (130, 25832), (140, 25883), (142, 25901), (150, 25964), (151, 25970), (157, 26009), (158, 26012), (161, 26030), (166, 26072), (168, 26081), (170, 26090), (173, 26123), (182, 26183), (184, 26198), (186, 26231), (191, 26261), (200, 26315), (211, 26396), (212, 26399), (216, 26429),

Gene: Ashraf\_28 Start: 25776, Stop: 27209, Start Num: 13

Candidate Starts for Ashraf\_28:

(Start: 13 @25776 has 308 MA's), (23, 25833), (27, 25857), (32, 25881), (48, 25956), (75, 26199), (77, 26208), (79, 26229), (83, 26250), (85, 26259), (94, 26322), (105, 26415), (106, 26418), (112, 26472), (116, 26490), (136, 26622), (145, 26670), (150, 26712), (151, 26718), (152, 26721), (158, 26760), (161, 26778), (162, 26793), (163, 26799), (164, 26808), (167, 26823), (172, 26868), (185, 26973), (191, 27009), (201, 27069), (203, 27078), (206, 27105), (212, 27147), (215, 27168),

Gene: Athena\_30 Start: 26897, Stop: 28327, Start Num: 14

Candidate Starts for Athena\_30:

(Start: 14 @26897 has 83 MA's), (23, 26954), (27, 26978), (28, 26987), (50, 27074), (67, 27224), (70, 27251), (77, 27326), (82, 27356), (85, 27377), (87, 27395), (97, 27449), (101, 27500), (117, 27611), (129, 27689), (130, 27701), (133, 27722), (135, 27737), (139, 27749), (150, 27830), (151, 27836), (161, 27896), (166, 27938), (170, 27956), (173, 27989), (181, 28037), (186, 28097), (188, 28112), (191, 28127), (192, 28130), (202, 28193), (212, 28265), (216, 28295),

Gene: Audrey\_29 Start: 26146, Stop: 27576, Start Num: 14

Candidate Starts for Audrey\_29:

(Start: 14 @26146 has 83 MA's), (23, 26203), (27, 26227), (28, 26236), (50, 26323), (67, 26473), (70, 26500), (77, 26575), (82, 26605), (85, 26626), (87, 26644), (97, 26698), (99, 26731), (101, 26749), (117, 26860), (129, 26938), (130, 26950), (133, 26971), (135, 26986), (139, 26998), (150, 27079), (151, 27085), (161, 27145), (166, 27187), (170, 27205), (173, 27238), (181, 27286), (186, 27346), (188, 27361), (191, 27376), (192, 27379), (202, 27442), (212, 27514), (216, 27544),

Gene: Austelle\_27 Start: 27096, Stop: 28529, Start Num: 13

Candidate Starts for Austelle\_27:

(Start: 13 @27096 has 308 MA's), (20, 27129), (23, 27153), (24, 27156), (28, 27186), (36, 27228), (38, 27234), (48, 27276), (57, 27309), (62, 27351), (71, 27468), (74, 27492), (77, 27528), (78, 27534), (83, 27570), (85, 27579), (92, 27630), (98, 27672), (109, 27783), (115, 27801), (116, 27810), (117, 27813), (121, 27834), (129, 27891), (130, 27903), (137, 27945), (139, 27951), (150, 28032), (151, 28038), (154, 28062), (158, 28080), (162, 28113), (164, 28128), (166, 28140), (173, 28191), (176, 28203),

(190, 28326), (191, 28329), (202, 28395), (205, 28416), (211, 28464), (217, 28503), (220, 28524),

Gene: Axumite\_25 Start: 23515, Stop: 25044, Start Num: 3

Candidate Starts for Axumite\_25:

(1, 22570), (2, 22669), (Start: 3 @23515 has 17 MA's), (7, 23548), (17, 23617), (21, 23635), (41, 23758), (46, 23779), (52, 23800), (77, 24043), (83, 24085), (85, 24094), (91, 24142), (115, 24316), (117, 24328), (128, 24397), (130, 24418), (149, 24541), (150, 24547), (153, 24574), (158, 24595), (162, 24628), (163, 24634), (164, 24643), (174, 24712), (179, 24742), (182, 24766), (186, 24814),

Gene: Badfish\_29 Start: 26239, Stop: 27672, Start Num: 13

Candidate Starts for Badfish\_29:

(Start: 13 @26239 has 308 MA's), (23, 26296), (27, 26320), (32, 26344), (48, 26419), (74, 26635), (75, 26662), (77, 26671), (79, 26692), (83, 26713), (85, 26722), (94, 26785), (105, 26878), (112, 26935), (116, 26953), (136, 27085), (145, 27133), (150, 27175), (151, 27181), (152, 27184), (158, 27223), (162, 27256), (163, 27262), (164, 27271), (167, 27286), (172, 27331), (185, 27436), (191, 27472), (201, 27532), (203, 27541), (212, 27610),

Gene: Bae\_27 Start: 26232, Stop: 27665, Start Num: 13

Candidate Starts for Bae\_27:

(Start: 13 @26232 has 308 MA's), (29, 26328), (31, 26334), (61, 26484), (63, 26514), (77, 26664), (78, 26670), (85, 26715), (92, 26766), (117, 26949), (129, 27027), (132, 27045), (139, 27087), (150, 27168), (166, 27276), (168, 27285), (169, 27291), (194, 27477), (196, 27498), (216, 27633), (217, 27639),

Gene: Baloo\_29 Start: 26149, Stop: 27579, Start Num: 14

Candidate Starts for Baloo\_29:

(Start: 14 @26149 has 83 MA's), (23, 26206), (27, 26230), (28, 26239), (50, 26326), (67, 26476), (70, 26503), (77, 26578), (82, 26608), (85, 26629), (87, 26647), (97, 26701), (99, 26734), (117, 26863), (129, 26941), (130, 26953), (133, 26974), (135, 26989), (139, 27001), (150, 27082), (151, 27088), (159, 27136), (161, 27148), (166, 27190), (170, 27208), (173, 27241), (181, 27289), (186, 27349), (188, 27364), (191, 27379), (192, 27382), (202, 27445), (212, 27517), (216, 27547),

Gene: Bananafish\_30 Start: 27484, Stop: 28920, Start Num: 14

Candidate Starts for Bananafish\_30:

(Start: 14 @27484 has 83 MA's), (20, 27517), (23, 27541), (24, 27544), (27, 27565), (31, 27586), (39, 27619), (49, 27664), (52, 27673), (62, 27736), (76, 27916), (77, 27919), (79, 27940), (84, 27964), (85, 27970), (87, 27988), (91, 28018), (92, 28021), (97, 28042), (104, 28111), (108, 28165), (112, 28183), (116, 28201), (117, 28204), (122, 28228), (129, 28282), (134, 28321), (138, 28339), (142, 28360), (149, 28417), (150, 28423), (152, 28432), (161, 28489), (168, 28540), (170, 28549), (173, 28582), (175, 28591), (184, 28657), (187, 28699), (191, 28720), (194, 28732), (195, 28750), (203, 28789), (211, 28855), (212, 28858), (216, 28888),

Gene: Banjo\_28 Start: 25915, Stop: 27348, Start Num: 13

Candidate Starts for Banjo\_28:

(Start: 13 @25915 has 308 MA's), (23, 25972), (27, 25996), (32, 26020), (48, 26095), (74, 26311), (75, 26338), (77, 26347), (79, 26368), (83, 26389), (85, 26398), (94, 26461), (105, 26554), (112, 26611), (116, 26629), (136, 26761), (145, 26809), (150, 26851), (151, 26857), (152, 26860), (158, 26899), (162, 26932), (163, 26938), (164, 26947), (167, 26962), (172, 27007), (185, 27112), (191, 27148), (201, 27208), (203, 27217), (212, 27286),

Gene: Basato\_30 Start: 26443, Stop: 27876, Start Num: 13

Candidate Starts for Basato\_30:

(Start: 13 @26443 has 308 MA's), (23, 26500), (27, 26524), (32, 26548), (48, 26623), (74, 26839), (75, 26866), (77, 26875), (79, 26896), (83, 26917), (85, 26926), (94, 26989), (105, 27082), (112, 27139), (116, 27157), (136, 27289), (145, 27337), (150, 27379), (151, 27385), (152, 27388), (158, 27427), (162, 27460), (163, 27466), (164, 27475), (167, 27490), (172, 27535), (185, 27640), (191, 27676), (201, 27736), (203, 27745), (212, 27814),

Gene: BatteryCK\_28 Start: 25834, Stop: 27267, Start Num: 13

Candidate Starts for BatteryCK\_28:

(Start: 13 @25834 has 308 MA's), (23, 25891), (27, 25915), (32, 25939), (48, 26014), (75, 26257), (77, 26266), (79, 26287), (83, 26308), (85, 26317), (94, 26380), (105, 26473), (112, 26530), (116, 26548), (136, 26680), (145, 26728), (150, 26770), (151, 26776), (152, 26779), (158, 26818), (161, 26836), (162, 26851), (163, 26857), (164, 26866), (167, 26881), (172, 26926), (185, 27031), (191, 27067), (201, 27127), (203, 27136), (206, 27163), (212, 27205), (215, 27226),

Gene: Beaglebox\_28 Start: 25935, Stop: 27368, Start Num: 13

Candidate Starts for Beaglebox\_28:

(Start: 13 @25935 has 308 MA's), (23, 25992), (27, 26016), (32, 26040), (48, 26115), (74, 26331), (75, 26358), (77, 26367), (79, 26388), (83, 26409), (85, 26418), (94, 26481), (105, 26574), (112, 26631), (116, 26649), (136, 26781), (145, 26829), (150, 26871), (151, 26877), (152, 26880), (158, 26919), (162, 26952), (163, 26958), (164, 26967), (167, 26982), (172, 27027), (185, 27132), (191, 27168), (201, 27228), (203, 27237), (212, 27306),

Gene: Ben11\_28 Start: 25968, Stop: 27398, Start Num: 14

Candidate Starts for Ben11\_28:

(Start: 14 @25968 has 83 MA's), (23, 26025), (27, 26049), (28, 26058), (50, 26145), (67, 26295), (70, 26322), (77, 26397), (82, 26427), (85, 26448), (87, 26466), (97, 26520), (99, 26553), (101, 26571), (117, 26682), (129, 26760), (130, 26772), (133, 26793), (135, 26808), (139, 26820), (150, 26901), (151, 26907), (159, 26955), (161, 26967), (166, 27009), (170, 27027), (173, 27060), (181, 27108), (186, 27168), (188, 27183), (191, 27198), (192, 27201), (202, 27264), (212, 27336), (216, 27366),

Gene: Bernardo\_29 Start: 26209, Stop: 27666, Start Num: 9

Candidate Starts for Bernardo\_29:

(Start: 9 @26209 has 1 MA's), (12, 26227), (Start: 14 @26236 has 83 MA's), (19, 26260), (23, 26293), (27, 26317), (28, 26326), (50, 26413), (67, 26563), (70, 26590), (77, 26665), (82, 26695), (85, 26716), (87, 26734), (97, 26788), (99, 26821), (101, 26839), (117, 26950), (129, 27028), (130, 27040), (133, 27061), (135, 27076), (139, 27088), (150, 27169), (151, 27175), (161, 27235), (166, 27277), (170, 27295), (173, 27328), (181, 27376), (186, 27436), (188, 27451), (191, 27466), (192, 27469), (212, 27604), (216, 27634),

Gene: BiggityBass\_25 Start: 25779, Stop: 27308, Start Num: 3

Candidate Starts for BiggityBass\_25:

(Start: 3 @25779 has 17 MA's), (7, 25812), (33, 25986), (46, 26043), (62, 26127), (77, 26307), (80, 26331), (83, 26349), (85, 26358), (91, 26406), (92, 26409), (97, 26430), (112, 26571), (115, 26580), (116, 26589), (117, 26592), (121, 26613), (128, 26661), (130, 26682), (135, 26718), (150, 26811), (151, 26817), (162, 26892), (163, 26898), (164, 26907), (182, 27030), (186, 27078), (212, 27246),

Gene: BirdsNest\_31 Start: 25822, Stop: 27255, Start Num: 13

Candidate Starts for BirdsNest\_31:

(Start: 13 @25822 has 308 MA's), (24, 25882), (27, 25903), (32, 25927), (37, 25957), (48, 26002), (67, 26155), (76, 26251), (90, 26341), (92, 26356), (112, 26518), (124, 26572), (128, 26608), (135, 26665), (137, 26671), (139, 26677), (140, 26680), (150, 26758), (157, 26803), (164, 26854), (168, 26875), (172, 26914), (194, 27067), (203, 27124), (214, 27208), (217, 27229),

Gene: Bishoperium\_28 Start: 25924, Stop: 27357, Start Num: 13

Candidate Starts for Bishoperium\_28:

(Start: 13 @25924 has 308 MA's), (23, 25981), (27, 26005), (32, 26029), (48, 26104), (74, 26320), (75, 26347), (77, 26356), (79, 26377), (83, 26398), (85, 26407), (94, 26470), (105, 26563), (112, 26620), (116, 26638), (136, 26770), (145, 26818), (150, 26860), (151, 26866), (152, 26869), (158, 26908), (162, 26941), (163, 26947), (164, 26956), (167, 26971), (172, 27016), (185, 27121), (191, 27157), (201, 27217), (203, 27226), (212, 27295),

Gene: BlackStallion\_29 Start: 26226, Stop: 27659, Start Num: 13

Candidate Starts for BlackStallion\_29:

(Start: 13 @26226 has 308 MA's), (23, 26283), (27, 26307), (32, 26331), (48, 26406), (74, 26622), (75, 26649), (77, 26658), (79, 26679), (83, 26700), (85, 26709), (94, 26772), (105, 26865), (112, 26922), (116, 26940), (136, 27072), (145, 27120), (150, 27162), (151, 27168), (152, 27171), (158, 27210), (162, 27243), (163, 27249), (164, 27258), (167, 27273), (172, 27318), (185, 27423), (191, 27459), (201, 27519), (203, 27528), (212, 27597),

Gene: Blocker23\_30 Start: 27605, Stop: 29041, Start Num: 14

Candidate Starts for Blocker23\_30:

(Start: 14 @27605 has 83 MA's), (20, 27638), (23, 27662), (24, 27665), (27, 27686), (31, 27707), (39, 27740), (49, 27785), (52, 27794), (62, 27857), (76, 28037), (77, 28040), (79, 28061), (84, 28085), (85, 28091), (87, 28109), (91, 28139), (92, 28142), (95, 28157), (97, 28163), (104, 28232), (108, 28286), (112, 28304), (116, 28322), (117, 28325), (122, 28349), (129, 28403), (134, 28442), (138, 28460), (142, 28481), (149, 28538), (150, 28544), (152, 28553), (161, 28610), (168, 28661), (170, 28670), (173, 28703), (175, 28712), (184, 28778), (187, 28820), (191, 28841), (194, 28853), (195, 28871), (203, 28910), (211, 28976), (212, 28979), (216, 29009),

Gene: BlueHusk\_29 Start: 25723, Stop: 27156, Start Num: 13

Candidate Starts for BlueHusk\_29:

(Start: 13 @25723 has 308 MA's), (23, 25780), (27, 25804), (32, 25828), (48, 25903), (74, 26119), (75, 26146), (77, 26155), (79, 26176), (83, 26197), (85, 26206), (94, 26269), (105, 26362), (112, 26419), (116, 26437), (136, 26569), (145, 26617), (150, 26659), (151, 26665), (152, 26668), (158, 26707), (162, 26740), (163, 26746), (164, 26755), (167, 26770), (172, 26815), (185, 26920), (191, 26956), (201, 27016), (203, 27025), (212, 27094),

Gene: Bluephacebaby\_28 Start: 25921, Stop: 27354, Start Num: 13

Candidate Starts for Bluephacebaby\_28:

(Start: 13 @25921 has 308 MA's), (23, 25978), (27, 26002), (32, 26026), (48, 26101), (74, 26317), (75, 26344), (77, 26353), (79, 26374), (83, 26395), (85, 26404), (94, 26467), (105, 26560), (112, 26617), (116, 26635), (136, 26767), (145, 26815), (150, 26857), (151, 26863), (152, 26866), (158, 26905), (162, 26938), (163, 26944), (164, 26953), (167, 26968), (172, 27013), (185, 27118), (191, 27154), (201, 27214), (203, 27223), (212, 27292),

Gene: BobRoss2024\_24 Start: 23544, Stop: 25073, Start Num: 3

Candidate Starts for BobRoss2024\_24:

(Start: 3 @23544 has 17 MA's), (21, 23664), (41, 23787), (45, 23805), (62, 23892), (67, 23973), (75, 24063), (76, 24069), (85, 24123), (97, 24195), (105, 24279), (128, 24426), (130, 24447), (137, 24489), (150, 24576), (158, 24624), (162, 24657), (163, 24663), (166, 24684), (168, 24693), (182, 24795), (188, 24858), (206, 24969), (208, 24978), (211, 25008), (212, 25011),

Gene: BobbyK\_26 Start: 26465, Stop: 27898, Start Num: 13

Candidate Starts for BobbyK\_26:

(Start: 13 @26465 has 308 MA's), (20, 26498), (23, 26522), (24, 26525), (28, 26555), (36, 26597), (38, 26603), (48, 26645), (57, 26678), (62, 26720), (74, 26861), (77, 26897), (78, 26903), (83, 26939), (85,

26948), (92, 26999), (98, 27041), (109, 27152), (115, 27170), (116, 27179), (121, 27203), (129, 27260), (130, 27272), (137, 27314), (139, 27320), (150, 27401), (151, 27407), (154, 27431), (158, 27449), (162, 27482), (164, 27497), (166, 27509), (173, 27560), (176, 27572), (190, 27695), (191, 27698), (202, 27764), (205, 27785), (211, 27833), (217, 27872), (220, 27893),

Gene: Boehler\_29 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Boehler\_29:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Boyle\_30 Start: 27603, Stop: 29039, Start Num: 14

Candidate Starts for Boyle\_30:

(Start: 14 @27603 has 83 MA's), (20, 27636), (23, 27660), (24, 27663), (27, 27684), (31, 27705), (39, 27738), (49, 27783), (52, 27792), (62, 27855), (76, 28035), (77, 28038), (79, 28059), (84, 28083), (85, 28089), (87, 28107), (91, 28137), (92, 28140), (97, 28161), (104, 28230), (108, 28284), (112, 28302), (116, 28320), (117, 28323), (122, 28347), (129, 28401), (134, 28440), (138, 28458), (142, 28479), (149, 28536), (150, 28542), (152, 28551), (161, 28608), (168, 28659), (170, 28668), (173, 28701), (175, 28710), (184, 28776), (187, 28818), (191, 28839), (194, 28851), (195, 28869), (203, 28908), (211, 28974), (212, 28977), (216, 29007),

Gene: Briakila\_29 Start: 26911, Stop: 28341, Start Num: 14

Candidate Starts for Briakila\_29:

(Start: 14 @26911 has 83 MA's), (23, 26968), (27, 26992), (28, 27001), (50, 27088), (70, 27265), (75, 27331), (77, 27340), (82, 27370), (85, 27391), (87, 27409), (97, 27463), (117, 27625), (129, 27703), (130, 27715), (133, 27736), (135, 27751), (139, 27763), (150, 27844), (151, 27850), (159, 27898), (161, 27910), (166, 27952), (170, 27970), (173, 28003), (181, 28051), (186, 28111), (188, 28126), (191, 28141), (192, 28144), (212, 28279), (216, 28309),

Gene: Brilliant\_29 Start: 25932, Stop: 27365, Start Num: 13

Candidate Starts for Brilliant\_29:

(Start: 13 @25932 has 308 MA's), (23, 25989), (27, 26013), (32, 26037), (48, 26112), (75, 26355), (77, 26364), (79, 26385), (83, 26406), (85, 26415), (94, 26478), (105, 26571), (106, 26574), (112, 26628), (116, 26646), (136, 26778), (145, 26826), (150, 26868), (151, 26874), (152, 26877), (158, 26916), (161, 26934), (162, 26949), (163, 26955), (164, 26964), (167, 26979), (172, 27024), (185, 27129), (191, 27165), (201, 27225), (203, 27234), (206, 27261), (212, 27303), (215, 27324),

Gene: BrownCNA\_27 Start: 26726, Stop: 28159, Start Num: 13

Candidate Starts for BrownCNA\_27:

(Start: 13 @26726 has 308 MA's), (20, 26759), (23, 26783), (24, 26786), (28, 26816), (36, 26858), (38, 26864), (48, 26906), (57, 26939), (62, 26981), (71, 27098), (74, 27122), (77, 27158), (78, 27164), (83, 27200), (85, 27209), (92, 27260), (98, 27302), (109, 27413), (115, 27431), (116, 27440), (117, 27443), (121, 27464), (129, 27521), (130, 27533), (137, 27575), (139, 27581), (150, 27662), (151, 27668), (154, 27692), (158, 27710), (162, 27743), (164, 27758), (166, 27770), (173, 27821), (174, 27827), (176, 27833), (187, 27938), (190, 27956), (191, 27959), (202, 28025), (205, 28046), (211, 28094), (217, 28133), (220, 28154),

Gene: Brownie5\_30 Start: 27609, Stop: 29045, Start Num: 14

Candidate Starts for Brownie5\_30:

(Start: 14 @27609 has 83 MA's), (20, 27642), (23, 27666), (24, 27669), (27, 27690), (31, 27711), (39, 27744), (49, 27789), (52, 27798), (62, 27861), (76, 28041), (77, 28044), (79, 28065), (84, 28089), (85,

28095), (87, 28113), (91, 28143), (92, 28146), (95, 28161), (97, 28167), (104, 28236), (108, 28290), (112, 28308), (116, 28326), (117, 28329), (122, 28353), (129, 28407), (134, 28446), (138, 28464), (142, 28485), (149, 28542), (150, 28548), (152, 28557), (161, 28614), (168, 28665), (170, 28674), (173, 28707), (175, 28716), (184, 28782), (187, 28824), (191, 28845), (194, 28857), (195, 28875), (203, 28914), (211, 28980), (212, 28983), (216, 29013),

Gene: Buckeye\_29 Start: 26244, Stop: 27677, Start Num: 13

Candidate Starts for Buckeye\_29:

(Start: 13 @26244 has 308 MA's), (23, 26301), (27, 26325), (32, 26349), (48, 26424), (74, 26640), (75, 26667), (77, 26676), (79, 26697), (83, 26718), (85, 26727), (94, 26790), (105, 26883), (112, 26940), (116, 26958), (136, 27090), (145, 27138), (150, 27180), (151, 27186), (152, 27189), (158, 27228), (162, 27261), (163, 27267), (164, 27276), (167, 27291), (172, 27336), (185, 27441), (191, 27477), (201, 27537), (203, 27546), (212, 27615),

Gene: Burr\_28 Start: 25920, Stop: 27353, Start Num: 13

Candidate Starts for Burr\_28:

(Start: 13 @25920 has 308 MA's), (23, 25977), (27, 26001), (32, 26025), (48, 26100), (74, 26316), (75, 26343), (77, 26352), (79, 26373), (83, 26394), (85, 26403), (94, 26466), (105, 26559), (112, 26616), (116, 26634), (136, 26766), (145, 26814), (150, 26856), (151, 26862), (152, 26865), (158, 26904), (162, 26937), (163, 26943), (164, 26952), (167, 26967), (172, 27012), (185, 27117), (191, 27153), (201, 27213), (203, 27222), (212, 27291),

Gene: CRB2\_31 Start: 29200, Stop: 30636, Start Num: 13

Candidate Starts for CRB2\_31:

(Start: 13 @29200 has 308 MA's), (23, 29257), (24, 29260), (27, 29281), (48, 29380), (57, 29413), (68, 29542), (74, 29596), (76, 29629), (77, 29632), (78, 29638), (85, 29683), (89, 29713), (95, 29749), (97, 29755), (105, 29839), (112, 29896), (117, 29917), (128, 29986), (129, 29995), (132, 30013), (135, 30043), (141, 30070), (150, 30139), (151, 30145), (157, 30184), (158, 30187), (164, 30235), (166, 30247), (168, 30256), (172, 30295), (183, 30370), (199, 30487), (211, 30571), (213, 30577),

Gene: CaiB\_27 Start: 25484, Stop: 27010, Start Num: 3

Candidate Starts for CaiB\_27:

(Start: 3 @25484 has 17 MA's), (7, 25517), (10, 25541), (11, 25544), (17, 25586), (18, 25589), (70, 25934), (71, 25949), (75, 26000), (82, 26039), (92, 26111), (93, 26114), (105, 26216), (112, 26273), (118, 26297), (128, 26363), (129, 26372), (130, 26384), (131, 26387), (137, 26426), (141, 26447), (150, 26513), (151, 26519), (157, 26558), (158, 26561), (162, 26594), (166, 26621), (168, 26630), (170, 26639), (176, 26684), (181, 26720), (182, 26732), (186, 26780), (201, 26870), (211, 26945), (216, 26978),

Gene: Calamitous\_30 Start: 27489, Stop: 28925, Start Num: 14

Candidate Starts for Calamitous\_30:

(Start: 14 @27489 has 83 MA's), (20, 27522), (23, 27546), (24, 27549), (27, 27570), (31, 27591), (39, 27624), (49, 27669), (52, 27678), (62, 27741), (76, 27921), (77, 27924), (79, 27945), (84, 27969), (85, 27975), (87, 27993), (91, 28023), (92, 28026), (97, 28047), (104, 28116), (108, 28170), (112, 28188), (116, 28206), (117, 28209), (122, 28233), (129, 28287), (134, 28326), (138, 28344), (142, 28365), (149, 28422), (150, 28428), (152, 28437), (161, 28494), (168, 28545), (170, 28554), (173, 28587), (175, 28596), (184, 28662), (187, 28704), (191, 28725), (194, 28737), (195, 28755), (203, 28794), (211, 28860), (212, 28863), (216, 28893),

Gene: CamL\_29 Start: 26222, Stop: 27655, Start Num: 13

Candidate Starts for CamL\_29:

(Start: 13 @26222 has 308 MA's), (23, 26279), (27, 26303), (32, 26327), (48, 26402), (74, 26618), (75, 26645), (77, 26654), (79, 26675), (83, 26696), (85, 26705), (94, 26768), (105, 26861), (112, 26918),

(116, 26936), (136, 27068), (145, 27116), (150, 27158), (151, 27164), (152, 27167), (158, 27206), (162, 27239), (163, 27245), (164, 27254), (167, 27269), (172, 27314), (185, 27419), (191, 27455), (201, 27515), (203, 27524), (212, 27593),

Gene: CampRoach\_29 Start: 26212, Stop: 27645, Start Num: 13

Candidate Starts for CampRoach\_29:

(Start: 13 @26212 has 308 MA's), (23, 26269), (27, 26293), (32, 26317), (48, 26392), (75, 26635), (77, 26644), (79, 26665), (83, 26686), (85, 26695), (94, 26758), (105, 26851), (106, 26854), (112, 26908), (116, 26926), (136, 27058), (145, 27106), (150, 27148), (151, 27154), (152, 27157), (158, 27196), (161, 27214), (162, 27229), (163, 27235), (164, 27244), (167, 27259), (172, 27304), (185, 27409), (191, 27445), (201, 27505), (203, 27514), (212, 27583),

Gene: Cannibal\_29 Start: 26205, Stop: 27638, Start Num: 13

Candidate Starts for Cannibal\_29:

(Start: 13 @26205 has 308 MA's), (23, 26262), (27, 26286), (32, 26310), (48, 26385), (74, 26601), (75, 26628), (77, 26637), (79, 26658), (83, 26679), (85, 26688), (94, 26751), (105, 26844), (112, 26901), (116, 26919), (136, 27051), (145, 27099), (150, 27141), (151, 27147), (152, 27150), (158, 27189), (162, 27222), (163, 27228), (164, 27237), (167, 27252), (172, 27297), (185, 27402), (191, 27438), (201, 27498), (203, 27507), (212, 27576),

Gene: Carthage\_27 Start: 25131, Stop: 26564, Start Num: 13

Candidate Starts for Carthage\_27:

(Start: 13 @25131 has 308 MA's), (23, 25188), (27, 25212), (32, 25236), (48, 25311), (74, 25527), (75, 25554), (77, 25563), (79, 25584), (83, 25605), (85, 25614), (94, 25677), (105, 25770), (112, 25827), (116, 25845), (136, 25977), (145, 26025), (150, 26067), (151, 26073), (152, 26076), (158, 26115), (162, 26148), (163, 26154), (164, 26163), (167, 26178), (172, 26223), (185, 26328), (191, 26364), (201, 26424), (203, 26433), (212, 26502),

Gene: Casbah\_28 Start: 25998, Stop: 27428, Start Num: 14

Candidate Starts for Casbah\_28:

(Start: 14 @25998 has 83 MA's), (23, 26055), (27, 26079), (28, 26088), (50, 26175), (67, 26325), (70, 26352), (77, 26427), (82, 26457), (85, 26478), (87, 26496), (97, 26550), (99, 26583), (117, 26712), (129, 26790), (130, 26802), (133, 26823), (135, 26838), (139, 26850), (150, 26931), (151, 26937), (161, 26997), (166, 27039), (170, 27057), (173, 27090), (181, 27138), (186, 27198), (188, 27213), (191, 27228), (192, 27231), (202, 27294), (212, 27366), (216, 27396),

Gene: Cepens\_22 Start: 24746, Stop: 26182, Start Num: 15

Candidate Starts for Cepens\_22:

(Start: 15 @24746 has 8 MA's), (19, 24767), (20, 24776), (49, 24923), (52, 24932), (64, 25034), (66, 25052), (70, 25103), (72, 25133), (75, 25169), (77, 25178), (80, 25202), (82, 25208), (92, 25280), (112, 25442), (114, 25448), (116, 25460), (117, 25463), (122, 25487), (129, 25541), (130, 25553), (140, 25604), (142, 25622), (150, 25685), (151, 25691), (157, 25730), (158, 25733), (161, 25751), (166, 25793), (168, 25802), (170, 25811), (173, 25844), (182, 25904), (184, 25919), (186, 25952), (191, 25982), (200, 26036), (202, 26048), (211, 26117), (212, 26120), (216, 26150),

Gene: ChaChing\_29 Start: 26161, Stop: 27591, Start Num: 14

Candidate Starts for ChaChing\_29:

(Start: 14 @26161 has 83 MA's), (23, 26218), (27, 26242), (28, 26251), (50, 26338), (70, 26515), (75, 26581), (77, 26590), (82, 26620), (85, 26641), (87, 26659), (97, 26713), (117, 26875), (129, 26953), (130, 26965), (133, 26986), (135, 27001), (139, 27013), (150, 27094), (151, 27100), (159, 27148), (161, 27160), (166, 27202), (170, 27220), (173, 27253), (181, 27301), (186, 27361), (188, 27376), (191, 27391), (192, 27394), (212, 27529), (216, 27559),

Gene: Chaelin\_29 Start: 25919, Stop: 27352, Start Num: 13

Candidate Starts for Chaelin\_29:

(Start: 13 @25919 has 308 MA's), (23, 25976), (27, 26000), (32, 26024), (48, 26099), (74, 26315), (75, 26342), (77, 26351), (79, 26372), (83, 26393), (85, 26402), (94, 26465), (105, 26558), (106, 26561), (112, 26615), (116, 26633), (136, 26765), (145, 26813), (150, 26855), (151, 26861), (152, 26864), (158, 26903), (161, 26921), (162, 26936), (163, 26942), (164, 26951), (167, 26966), (172, 27011), (185, 27116), (191, 27152), (201, 27212), (203, 27221), (212, 27290),

Gene: Chah\_30 Start: 26239, Stop: 27672, Start Num: 13

Candidate Starts for Chah\_30:

(Start: 13 @26239 has 308 MA's), (23, 26296), (27, 26320), (32, 26344), (48, 26419), (74, 26635), (75, 26662), (77, 26671), (79, 26692), (83, 26713), (85, 26722), (94, 26785), (105, 26878), (112, 26935), (116, 26953), (136, 27085), (145, 27133), (150, 27175), (151, 27181), (152, 27184), (158, 27223), (162, 27256), (163, 27262), (164, 27271), (167, 27286), (172, 27331), (185, 27436), (191, 27472), (201, 27532), (203, 27541), (212, 27610),

Gene: Chandler\_29 Start: 26926, Stop: 28356, Start Num: 14

Candidate Starts for Chandler\_29:

(Start: 14 @26926 has 83 MA's), (23, 26983), (27, 27007), (28, 27016), (50, 27103), (67, 27253), (70, 27280), (77, 27355), (82, 27385), (85, 27406), (87, 27424), (97, 27478), (99, 27511), (117, 27640), (129, 27718), (130, 27730), (133, 27751), (135, 27766), (139, 27778), (150, 27859), (151, 27865), (159, 27913), (161, 27925), (166, 27967), (170, 27985), (173, 28018), (181, 28066), (186, 28126), (188, 28141), (191, 28156), (192, 28159), (202, 28222), (212, 28294), (216, 28324),

Gene: Charles1\_29 Start: 26207, Stop: 27640, Start Num: 13

Candidate Starts for Charles1\_29:

(Start: 13 @26207 has 308 MA's), (23, 26264), (27, 26288), (32, 26312), (48, 26387), (74, 26603), (75, 26630), (77, 26639), (79, 26660), (83, 26681), (85, 26690), (94, 26753), (105, 26846), (112, 26903), (116, 26921), (136, 27053), (145, 27101), (150, 27143), (151, 27149), (152, 27152), (158, 27191), (162, 27224), (163, 27230), (164, 27239), (167, 27254), (172, 27299), (185, 27404), (191, 27440), (201, 27500), (203, 27509), (212, 27578),

Gene: CharlieGBrown\_28 Start: 25796, Stop: 27229, Start Num: 13

Candidate Starts for CharlieGBrown\_28:

(Start: 13 @25796 has 308 MA's), (23, 25853), (27, 25877), (32, 25901), (48, 25976), (75, 26219), (77, 26228), (79, 26249), (83, 26270), (85, 26279), (94, 26342), (105, 26435), (106, 26438), (112, 26492), (116, 26510), (136, 26642), (145, 26690), (150, 26732), (151, 26738), (152, 26741), (158, 26780), (161, 26798), (162, 26813), (163, 26819), (164, 26828), (167, 26843), (172, 26888), (185, 26993), (191, 27029), (201, 27089), (203, 27098), (206, 27125), (212, 27167), (215, 27188),

Gene: CharlottesWeb\_25 Start: 23434, Stop: 24963, Start Num: 4

Candidate Starts for CharlottesWeb\_25:

(Start: 4 @23434 has 2 MA's), (7, 23467), (17, 23536), (46, 23698), (77, 23962), (80, 23986), (83, 24004), (85, 24013), (91, 24061), (97, 24085), (101, 24136), (112, 24226), (115, 24235), (117, 24247), (128, 24316), (130, 24337), (135, 24373), (149, 24460), (150, 24466), (151, 24472), (158, 24514), (162, 24547), (163, 24553), (164, 24562), (173, 24625), (186, 24733), (191, 24763), (211, 24898),

Gene: CheetO\_29 Start: 26221, Stop: 27654, Start Num: 13

Candidate Starts for CheetO\_29:

(Start: 13 @26221 has 308 MA's), (23, 26278), (27, 26302), (32, 26326), (48, 26401), (74, 26617), (75, 26644), (77, 26653), (79, 26674), (83, 26695), (85, 26704), (94, 26767), (105, 26860), (112, 26917), (116, 26935), (136, 27067), (145, 27115), (150, 27157), (151, 27163), (152, 27166), (158, 27205), (161, 27223), (162, 27238), (163, 27244), (164, 27253), (167, 27268), (172, 27313), (185, 27418),



(191, 27454), (201, 27514), (203, 27523), (206, 27550), (212, 27592), (215, 27613),

Gene: Cher\_28 Start: 25944, Stop: 27377, Start Num: 13

Candidate Starts for Cher\_28:

(Start: 13 @25944 has 308 MA's), (23, 26001), (27, 26025), (32, 26049), (48, 26124), (74, 26340), (75, 26367), (77, 26376), (79, 26397), (83, 26418), (85, 26427), (94, 26490), (105, 26583), (112, 26640), (116, 26658), (136, 26790), (145, 26838), (150, 26880), (151, 26886), (152, 26889), (158, 26928), (162, 26961), (163, 26967), (164, 26976), (167, 26991), (172, 27036), (185, 27141), (191, 27177), (201, 27237), (203, 27246), (212, 27315),

Gene: Childish\_28 Start: 25947, Stop: 27380, Start Num: 13

Candidate Starts for Childish\_28:

(Start: 13 @25947 has 308 MA's), (23, 26004), (27, 26028), (32, 26052), (48, 26127), (74, 26343), (75, 26370), (77, 26379), (79, 26400), (83, 26421), (85, 26430), (94, 26493), (105, 26586), (112, 26643), (116, 26661), (136, 26793), (145, 26841), (150, 26883), (151, 26889), (152, 26892), (158, 26931), (162, 26964), (163, 26970), (164, 26979), (167, 26994), (172, 27039), (185, 27144), (191, 27180), (201, 27240), (203, 27249), (212, 27318),

Gene: Chorkpop\_29 Start: 25943, Stop: 27376, Start Num: 13

Candidate Starts for Chorkpop\_29:

(Start: 13 @25943 has 308 MA's), (23, 26000), (27, 26024), (32, 26048), (48, 26123), (74, 26339), (75, 26366), (77, 26375), (79, 26396), (83, 26417), (85, 26426), (94, 26489), (105, 26582), (112, 26639), (116, 26657), (136, 26789), (145, 26837), (150, 26879), (151, 26885), (152, 26888), (158, 26927), (162, 26960), (163, 26966), (164, 26975), (167, 26990), (172, 27035), (185, 27140), (191, 27176), (201, 27236), (203, 27245), (212, 27314),

Gene: ChrisnMich\_25 Start: 25425, Stop: 26858, Start Num: 13

Candidate Starts for ChrisnMich\_25:

(Start: 13 @25425 has 308 MA's), (20, 25458), (23, 25482), (24, 25485), (28, 25515), (36, 25557), (38, 25563), (48, 25605), (57, 25638), (62, 25680), (63, 25707), (74, 25821), (76, 25854), (77, 25857), (78, 25863), (83, 25899), (85, 25908), (92, 25959), (98, 26001), (107, 26076), (109, 26112), (115, 26130), (116, 26139), (117, 26142), (121, 26163), (129, 26220), (130, 26232), (137, 26274), (139, 26280), (150, 26361), (151, 26367), (154, 26391), (158, 26409), (162, 26442), (164, 26457), (166, 26469), (173, 26520), (176, 26532), (190, 26655), (191, 26658), (202, 26724), (205, 26745), (211, 26793), (217, 26832), (220, 26853),

Gene: Chunky\_29 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Chunky\_29:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Chute\_28 Start: 26262, Stop: 27695, Start Num: 13

Candidate Starts for Chute\_28:

(Start: 13 @26262 has 308 MA's), (23, 26319), (27, 26343), (32, 26367), (48, 26442), (74, 26658), (75, 26685), (77, 26694), (79, 26715), (83, 26736), (85, 26745), (94, 26808), (105, 26901), (116, 26976), (136, 27108), (145, 27156), (150, 27198), (151, 27204), (152, 27207), (158, 27246), (161, 27264), (162, 27279), (163, 27285), (164, 27294), (167, 27309), (172, 27354), (185, 27459), (191, 27495), (201, 27555), (203, 27564), (206, 27591), (212, 27633), (215, 27654),

Gene: CloverMinnie\_27 Start: 25424, Stop: 26950, Start Num: 3

Candidate Starts for CloverMinnie\_27:

(Start: 3 @25424 has 17 MA's), (7, 25457), (10, 25481), (11, 25484), (17, 25526), (18, 25529), (70, 25874), (75, 25940), (82, 25979), (92, 26051), (105, 26156), (112, 26213), (118, 26237), (128, 26303), (129, 26312), (130, 26324), (131, 26327), (134, 26351), (137, 26366), (141, 26387), (150, 26453), (151, 26459), (157, 26498), (158, 26501), (162, 26534), (166, 26561), (168, 26570), (170, 26579), (176, 26624), (181, 26660), (182, 26672), (186, 26720), (201, 26810), (211, 26885), (216, 26918),

Gene: Cobra\_29 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Cobra\_29:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (106, 26869), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (161, 27229), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (206, 27556), (212, 27598), (215, 27619),

Gene: Coffee\_30 Start: 27592, Stop: 29028, Start Num: 14

Candidate Starts for Coffee\_30:

(Start: 14 @27592 has 83 MA's), (20, 27625), (23, 27649), (24, 27652), (27, 27673), (31, 27694), (39, 27727), (49, 27772), (52, 27781), (62, 27844), (76, 28024), (77, 28027), (79, 28048), (84, 28072), (85, 28078), (87, 28096), (91, 28126), (92, 28129), (95, 28144), (97, 28150), (104, 28219), (108, 28273), (112, 28291), (116, 28309), (117, 28312), (122, 28336), (129, 28390), (134, 28429), (138, 28447), (142, 28468), (149, 28525), (150, 28531), (152, 28540), (161, 28597), (168, 28648), (170, 28657), (173, 28690), (175, 28699), (184, 28765), (187, 28807), (191, 28828), (194, 28840), (195, 28858), (203, 28897), (211, 28963), (212, 28966), (216, 28996),

Gene: Colbert\_29 Start: 26280, Stop: 27713, Start Num: 13

Candidate Starts for Colbert\_29:

(Start: 13 @26280 has 308 MA's), (23, 26337), (27, 26361), (32, 26385), (48, 26460), (74, 26676), (75, 26703), (77, 26712), (79, 26733), (83, 26754), (85, 26763), (94, 26826), (105, 26919), (112, 26976), (116, 26994), (136, 27126), (145, 27174), (150, 27216), (151, 27222), (152, 27225), (158, 27264), (162, 27297), (163, 27303), (164, 27312), (167, 27327), (172, 27372), (185, 27477), (191, 27513), (201, 27573), (203, 27582), (212, 27651),

Gene: Coldpizza\_28 Start: 27947, Stop: 29473, Start Num: 4

Candidate Starts for Coldpizza\_28:

(Start: 4 @27947 has 2 MA's), (22, 28082), (51, 28226), (66, 28343), (75, 28460), (76, 28466), (77, 28469), (83, 28511), (85, 28520), (95, 28586), (108, 28715), (117, 28754), (128, 28826), (130, 28847), (139, 28895), (148, 28955), (150, 28976), (151, 28982), (152, 28985), (168, 29093), (170, 29102), (174, 29141), (185, 29237), (201, 29333), (216, 29441),

Gene: Coletti\_28 Start: 26262, Stop: 27695, Start Num: 13

Candidate Starts for Coletti\_28:

(Start: 13 @26262 has 308 MA's), (23, 26319), (27, 26343), (32, 26367), (48, 26442), (74, 26658), (75, 26685), (77, 26694), (79, 26715), (83, 26736), (85, 26745), (94, 26808), (105, 26901), (116, 26976), (136, 27108), (145, 27156), (150, 27198), (151, 27204), (152, 27207), (158, 27246), (161, 27264), (162, 27279), (163, 27285), (164, 27294), (167, 27309), (172, 27354), (185, 27459), (191, 27495), (201, 27555), (203, 27564), (206, 27591), (212, 27633), (215, 27654),

Gene: Compostia\_30 Start: 26576, Stop: 28006, Start Num: 14

Candidate Starts for Compostia\_30:

(Start: 14 @26576 has 83 MA's), (23, 26633), (27, 26657), (28, 26666), (50, 26753), (67, 26903), (70, 26930), (77, 27005), (82, 27035), (85, 27056), (87, 27074), (97, 27128), (99, 27161), (117, 27290), (129, 27368), (130, 27380), (133, 27401), (135, 27416), (139, 27428), (150, 27509), (151, 27515),

(159, 27563), (161, 27575), (166, 27617), (170, 27635), (173, 27668), (181, 27716), (186, 27776), (188, 27791), (191, 27806), (192, 27809), (212, 27944), (216, 27974),

Gene: Cooper\_26 Start: 25647, Stop: 27080, Start Num: 13

Candidate Starts for Cooper\_26:

(Start: 13 @25647 has 308 MA's), (20, 25680), (23, 25704), (24, 25707), (28, 25737), (38, 25785), (48, 25827), (57, 25860), (62, 25902), (63, 25929), (74, 26043), (75, 26070), (76, 26076), (78, 26085), (82, 26109), (83, 26121), (85, 26130), (89, 26160), (109, 26334), (115, 26352), (116, 26361), (117, 26364), (121, 26385), (129, 26442), (130, 26454), (137, 26496), (139, 26502), (150, 26583), (151, 26589), (154, 26613), (158, 26631), (162, 26664), (166, 26691), (169, 26706), (173, 26742), (176, 26754), (185, 26844), (187, 26859), (191, 26880), (202, 26946), (205, 26967), (211, 27015), (212, 27018), (217, 27054), (220, 27075),

Gene: Cornobble\_28 Start: 25779, Stop: 27212, Start Num: 13

Candidate Starts for Cornobble\_28:

(Start: 13 @25779 has 308 MA's), (23, 25836), (27, 25860), (32, 25884), (48, 25959), (74, 26175), (75, 26202), (77, 26211), (79, 26232), (83, 26253), (85, 26262), (94, 26325), (105, 26418), (112, 26475), (116, 26493), (136, 26625), (145, 26673), (150, 26715), (151, 26721), (152, 26724), (158, 26763), (162, 26796), (163, 26802), (164, 26811), (167, 26826), (172, 26871), (185, 26976), (191, 27012), (201, 27072), (203, 27081), (212, 27150),

Gene: Corofin\_29 Start: 26171, Stop: 27601, Start Num: 14

Candidate Starts for Corofin\_29:

(Start: 14 @26171 has 83 MA's), (23, 26228), (27, 26252), (28, 26261), (50, 26348), (67, 26498), (70, 26525), (77, 26600), (82, 26630), (85, 26651), (87, 26669), (97, 26723), (99, 26756), (117, 26885), (129, 26963), (130, 26975), (133, 26996), (135, 27011), (139, 27023), (150, 27104), (151, 27110), (159, 27158), (161, 27170), (166, 27212), (170, 27230), (173, 27263), (181, 27311), (186, 27371), (188, 27386), (191, 27401), (192, 27404), (202, 27467), (212, 27539), (216, 27569),

Gene: Cosmolli16\_28 Start: 25941, Stop: 27374, Start Num: 13

Candidate Starts for Cosmolli16\_28:

(Start: 13 @25941 has 308 MA's), (23, 25998), (27, 26022), (32, 26046), (48, 26121), (74, 26337), (75, 26364), (77, 26373), (79, 26394), (83, 26415), (85, 26424), (94, 26487), (105, 26580), (112, 26637), (116, 26655), (136, 26787), (145, 26835), (150, 26877), (151, 26883), (152, 26886), (158, 26925), (162, 26958), (163, 26964), (164, 26973), (167, 26988), (172, 27033), (185, 27138), (191, 27174), (201, 27234), (203, 27243), (212, 27312),

Gene: Craff\_29 Start: 26225, Stop: 27658, Start Num: 13

Candidate Starts for Craff\_29:

(Start: 13 @26225 has 308 MA's), (23, 26282), (27, 26306), (32, 26330), (48, 26405), (74, 26621), (75, 26648), (77, 26657), (79, 26678), (83, 26699), (85, 26708), (94, 26771), (105, 26864), (112, 26921), (116, 26939), (136, 27071), (145, 27119), (150, 27161), (151, 27167), (152, 27170), (158, 27209), (162, 27242), (163, 27248), (164, 27257), (167, 27272), (172, 27317), (185, 27422), (191, 27458), (201, 27518), (203, 27527), (212, 27596),

Gene: Crownjwl\_29 Start: 25994, Stop: 27427, Start Num: 13

Candidate Starts for Crownjwl\_29:

(Start: 13 @25994 has 308 MA's), (23, 26051), (27, 26075), (32, 26099), (48, 26174), (74, 26390), (75, 26417), (77, 26426), (79, 26447), (83, 26468), (85, 26477), (94, 26540), (105, 26633), (112, 26690), (116, 26708), (136, 26840), (145, 26888), (150, 26930), (151, 26936), (152, 26939), (158, 26978), (162, 27011), (163, 27017), (164, 27026), (167, 27041), (172, 27086), (185, 27191), (191, 27227), (201, 27287), (203, 27296), (212, 27365),

Gene: D12\_22 Start: 24760, Stop: 26196, Start Num: 15

Candidate Starts for D12\_22:

(Start: 15 @24760 has 8 MA's), (19, 24781), (20, 24790), (49, 24937), (52, 24946), (64, 25048), (66, 25066), (70, 25117), (72, 25147), (75, 25183), (77, 25192), (80, 25216), (82, 25222), (92, 25294), (112, 25456), (114, 25462), (116, 25474), (117, 25477), (129, 25555), (130, 25567), (135, 25603), (140, 25618), (142, 25636), (150, 25699), (151, 25705), (153, 25726), (157, 25744), (158, 25747), (161, 25765), (165, 25798), (166, 25807), (168, 25816), (170, 25825), (173, 25858), (182, 25918), (184, 25933), (186, 25966), (191, 25996), (200, 26050), (211, 26131), (212, 26134), (216, 26164),

Gene: DaddyDaniels\_29 Start: 25916, Stop: 27349, Start Num: 13

Candidate Starts for DaddyDaniels\_29:

(Start: 13 @25916 has 308 MA's), (23, 25973), (27, 25997), (32, 26021), (48, 26096), (74, 26312), (75, 26339), (77, 26348), (79, 26369), (83, 26390), (85, 26399), (94, 26462), (105, 26555), (116, 26630), (136, 26762), (145, 26810), (150, 26852), (151, 26858), (152, 26861), (158, 26900), (161, 26918), (162, 26933), (163, 26939), (164, 26948), (167, 26963), (172, 27008), (185, 27113), (191, 27149), (201, 27209), (203, 27218), (206, 27245), (212, 27287), (215, 27308),

Gene: Daffy\_29 Start: 25947, Stop: 27380, Start Num: 13

Candidate Starts for Daffy\_29:

(Start: 13 @25947 has 308 MA's), (23, 26004), (27, 26028), (32, 26052), (48, 26127), (74, 26343), (75, 26370), (77, 26379), (79, 26400), (83, 26421), (85, 26430), (94, 26493), (105, 26586), (112, 26643), (116, 26661), (136, 26793), (145, 26841), (150, 26883), (151, 26889), (152, 26892), (158, 26931), (162, 26964), (163, 26970), (164, 26979), (167, 26994), (172, 27039), (185, 27144), (191, 27180), (201, 27240), (203, 27249), (212, 27318),

Gene: Daisy\_29 Start: 26173, Stop: 27603, Start Num: 14

Candidate Starts for Daisy\_29:

(Start: 14 @26173 has 83 MA's), (23, 26230), (27, 26254), (28, 26263), (50, 26350), (67, 26500), (70, 26527), (77, 26602), (82, 26632), (85, 26653), (87, 26671), (97, 26725), (99, 26758), (117, 26887), (129, 26965), (130, 26977), (133, 26998), (135, 27013), (139, 27025), (150, 27106), (151, 27112), (159, 27160), (161, 27172), (166, 27214), (170, 27232), (173, 27265), (181, 27313), (186, 27373), (188, 27388), (191, 27403), (192, 27406), (212, 27541), (216, 27571),

Gene: Daka\_29 Start: 26221, Stop: 27654, Start Num: 13

Candidate Starts for Daka\_29:

(Start: 13 @26221 has 308 MA's), (23, 26278), (27, 26302), (32, 26326), (48, 26401), (74, 26617), (75, 26644), (77, 26653), (79, 26674), (83, 26695), (85, 26704), (94, 26767), (105, 26860), (112, 26917), (116, 26935), (136, 27067), (145, 27115), (150, 27157), (151, 27163), (152, 27166), (158, 27205), (161, 27223), (162, 27238), (163, 27244), (164, 27253), (167, 27268), (172, 27313), (185, 27418), (191, 27454), (201, 27514), (203, 27523), (212, 27592),

Gene: Dati\_29 Start: 25941, Stop: 27374, Start Num: 13

Candidate Starts for Dati\_29:

(Start: 13 @25941 has 308 MA's), (23, 25998), (27, 26022), (32, 26046), (48, 26121), (75, 26364), (77, 26373), (79, 26394), (83, 26415), (85, 26424), (94, 26487), (105, 26580), (112, 26637), (116, 26655), (145, 26835), (150, 26877), (151, 26883), (152, 26886), (158, 26925), (161, 26943), (162, 26958), (163, 26964), (164, 26973), (167, 26988), (172, 27033), (185, 27138), (191, 27174), (201, 27234), (203, 27243), (212, 27312),

Gene: Deenasa\_29 Start: 26909, Stop: 28339, Start Num: 14

Candidate Starts for Deenasa\_29:

(Start: 14 @26909 has 83 MA's), (23, 26966), (27, 26990), (28, 26999), (50, 27086), (67, 27236), (70, 27263), (77, 27338), (82, 27368), (85, 27389), (87, 27407), (97, 27461), (99, 27494), (117, 27623),

(129, 27701), (130, 27713), (133, 27734), (135, 27749), (139, 27761), (150, 27842), (151, 27848), (159, 27896), (161, 27908), (166, 27950), (170, 27968), (173, 28001), (181, 28049), (186, 28109), (188, 28124), (191, 28139), (192, 28142), (202, 28205), (212, 28277), (216, 28307),

Gene: DelRivs\_28 Start: 25942, Stop: 27375, Start Num: 13

Candidate Starts for DelRivs\_28:

(Start: 13 @25942 has 308 MA's), (23, 25999), (27, 26023), (32, 26047), (48, 26122), (74, 26338), (75, 26365), (77, 26374), (79, 26395), (83, 26416), (85, 26425), (94, 26488), (105, 26581), (106, 26584), (112, 26638), (116, 26656), (136, 26788), (145, 26836), (150, 26878), (151, 26884), (152, 26887), (158, 26926), (162, 26959), (163, 26965), (164, 26974), (167, 26989), (172, 27034), (185, 27139), (191, 27175), (201, 27235), (203, 27244), (212, 27313),

Gene: Derpp\_28 Start: 25786, Stop: 27219, Start Num: 13

Candidate Starts for Derpp\_28:

(Start: 13 @25786 has 308 MA's), (23, 25843), (27, 25867), (32, 25891), (48, 25966), (75, 26209), (77, 26218), (79, 26239), (83, 26260), (85, 26269), (94, 26332), (105, 26425), (106, 26428), (112, 26482), (116, 26500), (136, 26632), (145, 26680), (150, 26722), (151, 26728), (152, 26731), (158, 26770), (161, 26788), (162, 26803), (163, 26809), (164, 26818), (167, 26833), (172, 26878), (185, 26983), (191, 27019), (201, 27079), (203, 27088), (206, 27115), (212, 27157), (215, 27178),

Gene: Devonte\_29 Start: 26137, Stop: 27567, Start Num: 14

Candidate Starts for Devonte\_29:

(Start: 14 @26137 has 83 MA's), (23, 26194), (27, 26218), (28, 26227), (50, 26314), (67, 26464), (70, 26491), (77, 26566), (82, 26596), (85, 26617), (87, 26635), (97, 26689), (99, 26722), (117, 26851), (129, 26929), (130, 26941), (133, 26962), (135, 26977), (139, 26989), (150, 27070), (151, 27076), (159, 27124), (161, 27136), (166, 27178), (170, 27196), (173, 27229), (181, 27277), (186, 27337), (188, 27352), (191, 27367), (192, 27370), (202, 27433), (212, 27505), (216, 27535),

Gene: Dice\_28 Start: 25921, Stop: 27354, Start Num: 13

Candidate Starts for Dice\_28:

(Start: 13 @25921 has 308 MA's), (23, 25978), (27, 26002), (32, 26026), (48, 26101), (74, 26317), (75, 26344), (77, 26353), (79, 26374), (83, 26395), (85, 26404), (94, 26467), (105, 26560), (112, 26617), (116, 26635), (136, 26767), (145, 26815), (150, 26857), (151, 26863), (152, 26866), (158, 26905), (162, 26938), (163, 26944), (164, 26953), (167, 26968), (172, 27013), (185, 27118), (191, 27154), (201, 27214), (203, 27223), (212, 27292),

Gene: DigitDog\_28 Start: 26052, Stop: 27485, Start Num: 13

Candidate Starts for DigitDog\_28:

(Start: 13 @26052 has 308 MA's), (31, 26154), (61, 26304), (63, 26334), (65, 26352), (68, 26394), (77, 26484), (78, 26490), (83, 26526), (85, 26535), (96, 26604), (117, 26769), (139, 26907), (142, 26925), (150, 26988), (168, 27105), (169, 27111), (186, 27255), (194, 27297), (196, 27318), (216, 27453), (217, 27459),

Gene: Dingo\_29 Start: 26204, Stop: 27637, Start Num: 13

Candidate Starts for Dingo\_29:

(Start: 13 @26204 has 308 MA's), (23, 26261), (27, 26285), (32, 26309), (48, 26384), (74, 26600), (75, 26627), (77, 26636), (79, 26657), (83, 26678), (85, 26687), (94, 26750), (105, 26843), (112, 26900), (116, 26918), (136, 27050), (145, 27098), (150, 27140), (151, 27146), (152, 27149), (158, 27188), (162, 27221), (163, 27227), (164, 27236), (167, 27251), (172, 27296), (185, 27401), (191, 27437), (201, 27497), (203, 27506), (212, 27575),

Gene: Dione\_28 Start: 25926, Stop: 27359, Start Num: 13

Candidate Starts for Dione\_28:

(Start: 13 @25926 has 308 MA's), (23, 25983), (27, 26007), (32, 26031), (48, 26106), (74, 26322), (75, 26349), (77, 26358), (79, 26379), (83, 26400), (85, 26409), (94, 26472), (105, 26565), (112, 26622), (116, 26640), (136, 26772), (145, 26820), (150, 26862), (151, 26868), (152, 26871), (158, 26910), (162, 26943), (163, 26949), (164, 26958), (167, 26973), (172, 27018), (185, 27123), (191, 27159), (201, 27219), (203, 27228), (212, 27297),

Gene: DirtJuice\_29 Start: 26210, Stop: 27643, Start Num: 13

Candidate Starts for DirtJuice\_29:

(Start: 13 @26210 has 308 MA's), (23, 26267), (27, 26291), (32, 26315), (48, 26390), (74, 26606), (75, 26633), (77, 26642), (79, 26663), (83, 26684), (85, 26693), (94, 26756), (105, 26849), (112, 26906), (116, 26924), (136, 27056), (145, 27104), (150, 27146), (151, 27152), (152, 27155), (158, 27194), (161, 27212), (162, 27227), (163, 27233), (164, 27242), (167, 27257), (172, 27302), (185, 27407), (191, 27443), (201, 27503), (203, 27512), (212, 27581),

Gene: Doddsville\_29 Start: 25940, Stop: 27373, Start Num: 13

Candidate Starts for Doddsville\_29:

(Start: 13 @25940 has 308 MA's), (23, 25997), (27, 26021), (32, 26045), (48, 26120), (75, 26363), (77, 26372), (79, 26393), (83, 26414), (85, 26423), (94, 26486), (105, 26579), (106, 26582), (112, 26636), (116, 26654), (136, 26786), (145, 26834), (150, 26876), (151, 26882), (152, 26885), (158, 26924), (161, 26942), (162, 26957), (163, 26963), (164, 26972), (167, 26987), (172, 27032), (185, 27137), (191, 27173), (201, 27233), (203, 27242), (206, 27269), (212, 27311), (215, 27332),

Gene: DoesntMatter\_29 Start: 26206, Stop: 27639, Start Num: 13

Candidate Starts for DoesntMatter\_29:

(Start: 13 @26206 has 308 MA's), (23, 26263), (27, 26287), (32, 26311), (48, 26386), (74, 26602), (75, 26629), (77, 26638), (79, 26659), (83, 26680), (85, 26689), (94, 26752), (105, 26845), (112, 26902), (116, 26920), (136, 27052), (145, 27100), (150, 27142), (151, 27148), (152, 27151), (158, 27190), (162, 27223), (163, 27229), (164, 27238), (167, 27253), (172, 27298), (185, 27403), (191, 27439), (201, 27499), (203, 27508), (212, 27577),

Gene: DonSanchon\_28 Start: 25920, Stop: 27353, Start Num: 13

Candidate Starts for DonSanchon\_28:

(Start: 13 @25920 has 308 MA's), (23, 25977), (27, 26001), (32, 26025), (48, 26100), (74, 26316), (75, 26343), (77, 26352), (79, 26373), (83, 26394), (85, 26403), (94, 26466), (105, 26559), (112, 26616), (116, 26634), (136, 26766), (145, 26814), (150, 26856), (151, 26862), (152, 26865), (158, 26904), (162, 26937), (163, 26943), (164, 26952), (167, 26967), (172, 27012), (185, 27117), (191, 27153), (201, 27213), (203, 27222), (212, 27291),

Gene: Donny\_28 Start: 26463, Stop: 27896, Start Num: 13

Candidate Starts for Donny\_28:

(5, 26397), (Start: 13 @26463 has 308 MA's), (29, 26559), (31, 26565), (41, 26616), (61, 26715), (63, 26745), (69, 26808), (77, 26895), (78, 26901), (83, 26937), (85, 26946), (92, 26997), (115, 27168), (117, 27180), (129, 27258), (139, 27318), (142, 27336), (150, 27399), (168, 27516), (169, 27522), (186, 27666), (194, 27708), (216, 27864), (217, 27870),

Gene: Dori\_25 Start: 23120, Stop: 24547, Start Num: 14

Candidate Starts for Dori\_25:

(Start: 14 @23120 has 83 MA's), (20, 23153), (27, 23201), (30, 23216), (31, 23222), (40, 23264), (52, 23306), (57, 23327), (62, 23369), (75, 23537), (76, 23543), (85, 23597), (92, 23648), (95, 23663), (97, 23669), (100, 23711), (108, 23792), (112, 23810), (115, 23819), (128, 23900), (130, 23921), (135, 23957), (137, 23963), (144, 23999), (150, 24050), (151, 24056), (152, 24059), (153, 24077), (157, 24095), (161, 24116), (168, 24167), (170, 24176), (173, 24209), (184, 24284), (191, 24347), (194, 24359), (212, 24485), (216, 24515),

Gene: DuchessDung\_27 Start: 25077, Stop: 26510, Start Num: 13

Candidate Starts for DuchessDung\_27:

(Start: 13 @25077 has 308 MA's), (23, 25134), (27, 25158), (32, 25182), (48, 25257), (75, 25500), (77, 25509), (79, 25530), (83, 25551), (85, 25560), (94, 25623), (105, 25716), (106, 25719), (112, 25773), (116, 25791), (136, 25923), (145, 25971), (150, 26013), (151, 26019), (152, 26022), (158, 26061), (161, 26079), (162, 26094), (163, 26100), (164, 26109), (167, 26124), (172, 26169), (185, 26274), (191, 26310), (201, 26370), (203, 26379), (206, 26406), (212, 26448), (215, 26469),

Gene: Duggie\_28 Start: 25942, Stop: 27375, Start Num: 13

Candidate Starts for Duggie\_28:

(Start: 13 @25942 has 308 MA's), (23, 25999), (27, 26023), (32, 26047), (48, 26122), (74, 26338), (75, 26365), (77, 26374), (79, 26395), (83, 26416), (85, 26425), (94, 26488), (105, 26581), (116, 26656), (136, 26788), (145, 26836), (150, 26878), (151, 26884), (152, 26887), (158, 26926), (161, 26944), (162, 26959), (163, 26965), (164, 26974), (167, 26989), (172, 27034), (185, 27139), (191, 27175), (201, 27235), (203, 27244), (206, 27271), (212, 27313), (215, 27334),

Gene: Durga\_29 Start: 26239, Stop: 27672, Start Num: 13

Candidate Starts for Durga\_29:

(Start: 13 @26239 has 308 MA's), (23, 26296), (27, 26320), (32, 26344), (48, 26419), (75, 26662), (77, 26671), (79, 26692), (83, 26713), (85, 26722), (94, 26785), (105, 26878), (106, 26881), (112, 26935), (116, 26953), (136, 27085), (145, 27133), (150, 27175), (151, 27181), (152, 27184), (158, 27223), (161, 27241), (162, 27256), (163, 27262), (164, 27271), (167, 27286), (172, 27331), (185, 27436), (191, 27472), (201, 27532), (203, 27541), (206, 27568), (212, 27610), (215, 27631),

Gene: Eaglehorse\_30 Start: 27516, Stop: 28952, Start Num: 14

Candidate Starts for Eaglehorse\_30:

(Start: 14 @27516 has 83 MA's), (20, 27549), (23, 27573), (24, 27576), (27, 27597), (31, 27618), (39, 27651), (49, 27696), (52, 27705), (62, 27768), (76, 27948), (77, 27951), (79, 27972), (84, 27996), (85, 28002), (87, 28020), (91, 28050), (92, 28053), (95, 28068), (97, 28074), (104, 28143), (108, 28197), (112, 28215), (116, 28233), (117, 28236), (122, 28260), (129, 28314), (134, 28353), (138, 28371), (142, 28392), (149, 28449), (150, 28455), (152, 28464), (161, 28521), (168, 28572), (170, 28581), (173, 28614), (175, 28623), (184, 28689), (187, 28731), (191, 28752), (194, 28764), (195, 28782), (203, 28821), (211, 28887), (212, 28890), (216, 28920),

Gene: EastView9101\_27 Start: 26113, Stop: 27546, Start Num: 13

Candidate Starts for EastView9101\_27:

(5, 26047), (Start: 13 @26113 has 308 MA's), (29, 26209), (31, 26215), (41, 26266), (61, 26365), (63, 26395), (69, 26458), (77, 26545), (78, 26551), (83, 26587), (85, 26596), (92, 26647), (112, 26809), (115, 26818), (117, 26830), (129, 26908), (132, 26926), (139, 26968), (150, 27049), (168, 27166), (169, 27172), (186, 27316), (194, 27358), (216, 27514), (217, 27520),

Gene: Emiris\_29 Start: 26210, Stop: 27643, Start Num: 13

Candidate Starts for Emiris\_29:

(Start: 13 @26210 has 308 MA's), (23, 26267), (27, 26291), (32, 26315), (48, 26390), (74, 26606), (75, 26633), (77, 26642), (79, 26663), (83, 26684), (85, 26693), (94, 26756), (105, 26849), (112, 26906), (116, 26924), (136, 27056), (145, 27104), (150, 27146), (151, 27152), (152, 27155), (158, 27194), (162, 27227), (163, 27233), (164, 27242), (167, 27257), (172, 27302), (185, 27407), (191, 27443), (201, 27503), (203, 27512), (212, 27581),

Gene: EmpTee\_29 Start: 26220, Stop: 27653, Start Num: 13

Candidate Starts for EmpTee\_29:

(Start: 13 @26220 has 308 MA's), (23, 26277), (27, 26301), (32, 26325), (48, 26400), (74, 26616), (75, 26643), (77, 26652), (79, 26673), (83, 26694), (85, 26703), (94, 26766), (105, 26859), (112, 26916), (116, 26934), (136, 27066), (145, 27114), (150, 27156), (151, 27162), (152, 27165), (158, 27204), (162, 27237), (163, 27243), (164, 27252), (167, 27267), (172, 27312), (185, 27417), (191, 27453), (201, 27513), (203, 27522), (212, 27591),

Gene: Epah\_25 Start: 25433, Stop: 26866, Start Num: 13

Candidate Starts for Epah\_25:

(Start: 13 @25433 has 308 MA's), (20, 25466), (23, 25490), (24, 25493), (28, 25523), (35, 25562), (36, 25565), (38, 25571), (48, 25613), (57, 25646), (62, 25688), (63, 25715), (74, 25829), (76, 25862), (77, 25865), (78, 25871), (83, 25907), (85, 25916), (92, 25967), (98, 26009), (107, 26084), (109, 26120), (115, 26138), (116, 26147), (117, 26150), (121, 26171), (129, 26228), (130, 26240), (137, 26282), (139, 26288), (150, 26369), (151, 26375), (154, 26399), (158, 26417), (162, 26450), (164, 26465), (166, 26477), (173, 26528), (176, 26540), (190, 26663), (191, 26666), (202, 26732), (205, 26753), (211, 26801), (217, 26840), (220, 26861),

Gene: Eremos\_29 Start: 26219, Stop: 27652, Start Num: 13

Candidate Starts for Eremos\_29:

(Start: 13 @26219 has 308 MA's), (23, 26276), (27, 26300), (32, 26324), (48, 26399), (74, 26615), (75, 26642), (77, 26651), (79, 26672), (83, 26693), (85, 26702), (94, 26765), (105, 26858), (112, 26915), (116, 26933), (136, 27065), (145, 27113), (150, 27155), (151, 27161), (152, 27164), (158, 27203), (162, 27236), (163, 27242), (164, 27251), (167, 27266), (172, 27311), (185, 27416), (191, 27452), (201, 27512), (203, 27521), (212, 27590),

Gene: Etaye\_29 Start: 26209, Stop: 27642, Start Num: 13

Candidate Starts for Etaye\_29:

(Start: 13 @26209 has 308 MA's), (23, 26266), (27, 26290), (32, 26314), (48, 26389), (74, 26605), (75, 26632), (77, 26641), (79, 26662), (83, 26683), (85, 26692), (94, 26755), (105, 26848), (116, 26923), (136, 27055), (145, 27103), (150, 27145), (151, 27151), (152, 27154), (158, 27193), (161, 27211), (162, 27226), (163, 27232), (164, 27241), (167, 27256), (172, 27301), (185, 27406), (191, 27442), (201, 27502), (203, 27511), (206, 27538), (212, 27580), (215, 27601),

Gene: Eugenia\_29 Start: 26229, Stop: 27662, Start Num: 13

Candidate Starts for Eugenia\_29:

(Start: 13 @26229 has 308 MA's), (23, 26286), (27, 26310), (32, 26334), (48, 26409), (74, 26625), (75, 26652), (77, 26661), (79, 26682), (83, 26703), (85, 26712), (94, 26775), (105, 26868), (112, 26925), (116, 26943), (136, 27075), (145, 27123), (150, 27165), (151, 27171), (152, 27174), (158, 27213), (162, 27246), (163, 27252), (164, 27261), (167, 27276), (172, 27321), (185, 27426), (191, 27462), (201, 27522), (203, 27531), (212, 27600),

Gene: Evaa\_26 Start: 25002, Stop: 26525, Start Num: 4

Candidate Starts for Evaa\_26:

(Start: 4 @25002 has 2 MA's), (34, 25209), (45, 25257), (52, 25281), (60, 25335), (76, 25518), (77, 25521), (78, 25527), (82, 25551), (85, 25572), (95, 25638), (97, 25644), (116, 25803), (117, 25806), (123, 25836), (127, 25857), (128, 25878), (130, 25899), (150, 26028), (166, 26136), (168, 26145), (173, 26187), (177, 26208), (182, 26247), (185, 26289), (197, 26361), (206, 26421), (211, 26460), (215, 26484), (217, 26499),

Gene: Fanaw\_25 Start: 26128, Stop: 27561, Start Num: 13

Candidate Starts for Fanaw\_25:

(Start: 13 @26128 has 308 MA's), (20, 26161), (23, 26185), (24, 26188), (28, 26218), (36, 26260), (38, 26266), (48, 26308), (57, 26341), (62, 26383), (74, 26524), (77, 26560), (78, 26566), (83, 26602), (85, 26611), (92, 26662), (98, 26704), (109, 26815), (115, 26833), (116, 26842), (117, 26845), (121,



26866), (129, 26923), (130, 26935), (137, 26977), (139, 26983), (150, 27064), (151, 27070), (154, 27094), (158, 27112), (162, 27145), (164, 27160), (166, 27172), (173, 27223), (176, 27235), (190, 27358), (191, 27361), (202, 27427), (205, 27448), (211, 27496), (217, 27535), (220, 27556),

Gene: Fang\_29 Start: 26233, Stop: 27666, Start Num: 13

Candidate Starts for Fang\_29:

(Start: 13 @26233 has 308 MA's), (23, 26290), (27, 26314), (32, 26338), (48, 26413), (74, 26629), (75, 26656), (77, 26665), (79, 26686), (83, 26707), (85, 26716), (94, 26779), (105, 26872), (112, 26929), (116, 26947), (136, 27079), (145, 27127), (150, 27169), (151, 27175), (152, 27178), (158, 27217), (162, 27250), (163, 27256), (164, 27265), (167, 27280), (172, 27325), (185, 27430), (191, 27466), (201, 27526), (203, 27535), (212, 27604),

Gene: Faze9\_30 Start: 27612, Stop: 29048, Start Num: 14

Candidate Starts for Faze9\_30:

(Start: 14 @27612 has 83 MA's), (20, 27645), (23, 27669), (24, 27672), (27, 27693), (31, 27714), (39, 27747), (49, 27792), (52, 27801), (62, 27864), (76, 28044), (77, 28047), (79, 28068), (84, 28092), (85, 28098), (87, 28116), (91, 28146), (92, 28149), (97, 28170), (104, 28239), (108, 28293), (112, 28311), (116, 28329), (117, 28332), (122, 28356), (129, 28410), (134, 28449), (138, 28467), (142, 28488), (149, 28545), (150, 28551), (152, 28560), (161, 28617), (168, 28668), (170, 28677), (173, 28710), (175, 28719), (184, 28785), (187, 28827), (191, 28848), (194, 28860), (195, 28878), (203, 28917), (211, 28983), (212, 28986), (216, 29016),

Gene: FluffyNinja\_29 Start: 26226, Stop: 27659, Start Num: 13

Candidate Starts for FluffyNinja\_29:

(Start: 13 @26226 has 308 MA's), (23, 26283), (27, 26307), (32, 26331), (48, 26406), (74, 26622), (75, 26649), (77, 26658), (79, 26679), (83, 26700), (85, 26709), (94, 26772), (105, 26865), (112, 26922), (116, 26940), (136, 27072), (145, 27120), (150, 27162), (151, 27168), (152, 27171), (158, 27210), (162, 27243), (163, 27249), (164, 27258), (167, 27273), (172, 27318), (185, 27423), (191, 27459), (201, 27519), (203, 27528), (212, 27597),

Gene: Fortunato\_26 Start: 26456, Stop: 27889, Start Num: 13

Candidate Starts for Fortunato\_26:

(Start: 13 @26456 has 308 MA's), (20, 26489), (23, 26513), (24, 26516), (28, 26546), (36, 26588), (38, 26594), (48, 26636), (57, 26669), (62, 26711), (68, 26798), (74, 26852), (77, 26888), (78, 26894), (83, 26930), (85, 26939), (92, 26990), (98, 27032), (109, 27143), (115, 27161), (116, 27170), (117, 27173), (121, 27194), (129, 27251), (130, 27263), (137, 27305), (139, 27311), (150, 27392), (151, 27398), (154, 27422), (158, 27440), (162, 27473), (164, 27488), (166, 27500), (176, 27563), (191, 27689), (202, 27755), (205, 27776), (211, 27824), (217, 27863), (220, 27884),

Gene: Fozzie\_28 Start: 26235, Stop: 27668, Start Num: 13

Candidate Starts for Fozzie\_28:

(Start: 13 @26235 has 308 MA's), (23, 26292), (27, 26316), (32, 26340), (48, 26415), (74, 26631), (75, 26658), (77, 26667), (79, 26688), (83, 26709), (85, 26718), (94, 26781), (105, 26874), (112, 26931), (116, 26949), (136, 27081), (145, 27129), (150, 27171), (151, 27177), (152, 27180), (158, 27219), (162, 27252), (163, 27258), (164, 27267), (167, 27282), (172, 27327), (185, 27432), (191, 27468), (201, 27528), (203, 27537), (206, 27564), (212, 27606),

Gene: Frankicide\_29 Start: 26238, Stop: 27671, Start Num: 13

Candidate Starts for Frankicide\_29:

(Start: 13 @26238 has 308 MA's), (23, 26295), (27, 26319), (32, 26343), (48, 26418), (74, 26634), (75, 26661), (77, 26670), (79, 26691), (83, 26712), (85, 26721), (94, 26784), (105, 26877), (112, 26934), (116, 26952), (136, 27084), (145, 27132), (150, 27174), (151, 27180), (152, 27183), (158, 27222), (161, 27240), (162, 27255), (163, 27261), (164, 27270), (167, 27285), (172, 27330), (185, 27435),

(191, 27471), (201, 27531), (203, 27540), (212, 27609),

Gene: Frederick\_26 Start: 26465, Stop: 27898, Start Num: 13

Candidate Starts for Frederick\_26:

(Start: 13 @26465 has 308 MA's), (20, 26498), (23, 26522), (24, 26525), (28, 26555), (36, 26597), (38, 26603), (48, 26645), (57, 26678), (62, 26720), (74, 26861), (77, 26897), (78, 26903), (83, 26939), (85, 26948), (92, 26999), (98, 27041), (109, 27152), (115, 27170), (116, 27179), (121, 27203), (129, 27260), (130, 27272), (137, 27314), (139, 27320), (150, 27401), (151, 27407), (154, 27431), (158, 27449), (162, 27482), (164, 27497), (166, 27509), (173, 27560), (176, 27572), (190, 27695), (191, 27698), (202, 27764), (205, 27785), (211, 27833), (217, 27872), (220, 27893),

Gene: FrenchFry\_30 Start: 27606, Stop: 29042, Start Num: 14

Candidate Starts for FrenchFry\_30:

(Start: 14 @27606 has 83 MA's), (20, 27639), (23, 27663), (24, 27666), (27, 27687), (31, 27708), (39, 27741), (49, 27786), (52, 27795), (62, 27858), (76, 28038), (77, 28041), (79, 28062), (84, 28086), (85, 28092), (87, 28110), (91, 28140), (92, 28143), (95, 28158), (97, 28164), (104, 28233), (108, 28287), (112, 28305), (116, 28323), (117, 28326), (122, 28350), (129, 28404), (134, 28443), (138, 28461), (142, 28482), (149, 28539), (150, 28545), (152, 28554), (161, 28611), (168, 28662), (170, 28671), (173, 28704), (175, 28713), (184, 28779), (187, 28821), (191, 28842), (194, 28854), (195, 28872), (203, 28911), (211, 28977), (212, 28980), (216, 29010),

Gene: Fresco\_25 Start: 23515, Stop: 25044, Start Num: 3

Candidate Starts for Fresco\_25:

(1, 22570), (2, 22669), (Start: 3 @23515 has 17 MA's), (7, 23548), (17, 23617), (21, 23635), (41, 23758), (46, 23779), (52, 23800), (77, 24043), (83, 24085), (85, 24094), (91, 24142), (115, 24316), (117, 24328), (128, 24397), (130, 24418), (149, 24541), (150, 24547), (153, 24574), (158, 24595), (162, 24628), (163, 24634), (164, 24643), (174, 24712), (179, 24742), (182, 24766), (186, 24814),

Gene: Freya\_28 Start: 25917, Stop: 27350, Start Num: 13

Candidate Starts for Freya\_28:

(Start: 13 @25917 has 308 MA's), (23, 25974), (27, 25998), (32, 26022), (48, 26097), (74, 26313), (75, 26340), (77, 26349), (79, 26370), (83, 26391), (85, 26400), (94, 26463), (105, 26556), (112, 26613), (116, 26631), (136, 26763), (145, 26811), (150, 26853), (151, 26859), (152, 26862), (158, 26901), (162, 26934), (163, 26940), (164, 26949), (167, 26964), (172, 27009), (185, 27114), (191, 27150), (201, 27210), (203, 27219), (212, 27288),

Gene: FriarPreacher\_29 Start: 26244, Stop: 27677, Start Num: 13

Candidate Starts for FriarPreacher\_29:

(Start: 13 @26244 has 308 MA's), (23, 26301), (27, 26325), (32, 26349), (48, 26424), (74, 26640), (75, 26667), (77, 26676), (79, 26697), (83, 26718), (85, 26727), (94, 26790), (105, 26883), (112, 26940), (116, 26958), (136, 27090), (145, 27138), (150, 27180), (151, 27186), (152, 27189), (158, 27228), (162, 27261), (163, 27267), (164, 27276), (167, 27291), (172, 27336), (185, 27441), (191, 27477), (201, 27537), (203, 27546), (212, 27615),

Gene: Fringe\_29 Start: 26208, Stop: 27641, Start Num: 13

Candidate Starts for Fringe\_29:

(Start: 13 @26208 has 308 MA's), (23, 26265), (27, 26289), (32, 26313), (48, 26388), (74, 26604), (75, 26631), (77, 26640), (79, 26661), (83, 26682), (85, 26691), (94, 26754), (105, 26847), (112, 26904), (116, 26922), (136, 27054), (145, 27102), (150, 27144), (151, 27150), (152, 27153), (158, 27192), (162, 27225), (163, 27231), (164, 27240), (167, 27255), (172, 27300), (185, 27405), (191, 27441), (201, 27501), (203, 27510), (212, 27579),

Gene: FugateOSU\_28 Start: 25922, Stop: 27355, Start Num: 13

Candidate Starts for FugateOSU\_28:

(Start: 13 @25922 has 308 MA's), (23, 25979), (27, 26003), (32, 26027), (48, 26102), (74, 26318), (75, 26345), (77, 26354), (79, 26375), (83, 26396), (85, 26405), (94, 26468), (105, 26561), (112, 26618), (116, 26636), (136, 26768), (145, 26816), (150, 26858), (151, 26864), (152, 26867), (158, 26906), (162, 26939), (163, 26945), (164, 26954), (167, 26969), (172, 27014), (185, 27119), (191, 27155), (201, 27215), (203, 27224), (212, 27293),

Gene: Funsized\_31 Start: 29174, Stop: 30607, Start Num: 13

Candidate Starts for Funsized\_31:

(Start: 13 @29174 has 308 MA's), (23, 29231), (32, 29279), (44, 29339), (48, 29354), (61, 29426), (68, 29516), (75, 29597), (76, 29603), (77, 29606), (78, 29612), (83, 29648), (85, 29657), (92, 29708), (112, 29870), (115, 29879), (116, 29888), (117, 29891), (118, 29894), (128, 29960), (129, 29969), (137, 30023), (141, 30044), (143, 30050), (145, 30068), (150, 30110), (158, 30158), (162, 30191), (163, 30197), (164, 30206), (168, 30227), (174, 30275), (175, 30278), (176, 30281), (186, 30377), (190, 30404), (194, 30419), (217, 30581),

Gene: Gadget\_30 Start: 26153, Stop: 27583, Start Num: 14

Candidate Starts for Gadget\_30:

(Start: 14 @26153 has 83 MA's), (23, 26210), (27, 26234), (28, 26243), (50, 26330), (67, 26480), (70, 26507), (77, 26582), (82, 26612), (85, 26633), (87, 26651), (97, 26705), (99, 26738), (117, 26867), (129, 26945), (130, 26957), (133, 26978), (135, 26993), (139, 27005), (150, 27086), (151, 27092), (159, 27140), (161, 27152), (166, 27194), (170, 27212), (173, 27245), (181, 27293), (186, 27353), (188, 27368), (191, 27383), (192, 27386), (202, 27449), (212, 27521), (216, 27551),

Gene: Gareth\_28 Start: 25924, Stop: 27357, Start Num: 13

Candidate Starts for Gareth\_28:

(Start: 13 @25924 has 308 MA's), (23, 25981), (27, 26005), (32, 26029), (48, 26104), (74, 26320), (75, 26347), (77, 26356), (79, 26377), (83, 26398), (85, 26407), (94, 26470), (105, 26563), (112, 26620), (116, 26638), (136, 26770), (145, 26818), (150, 26860), (151, 26866), (152, 26869), (158, 26908), (162, 26941), (163, 26947), (164, 26956), (167, 26971), (172, 27016), (185, 27121), (191, 27157), (201, 27217), (203, 27226), (212, 27295),

Gene: GeneCoco\_29 Start: 26234, Stop: 27667, Start Num: 13

Candidate Starts for GeneCoco\_29:

(Start: 13 @26234 has 308 MA's), (23, 26291), (27, 26315), (32, 26339), (48, 26414), (75, 26657), (77, 26666), (79, 26687), (83, 26708), (85, 26717), (94, 26780), (105, 26873), (106, 26876), (112, 26930), (116, 26948), (136, 27080), (145, 27128), (150, 27170), (151, 27176), (152, 27179), (158, 27218), (161, 27236), (162, 27251), (163, 27257), (164, 27266), (167, 27281), (172, 27326), (185, 27431), (191, 27467), (201, 27527), (203, 27536), (206, 27563), (209, 27587), (212, 27605), (215, 27626),

Gene: Gervas\_29 Start: 26127, Stop: 27557, Start Num: 14

Candidate Starts for Gervas\_29:

(Start: 14 @26127 has 83 MA's), (23, 26184), (27, 26208), (28, 26217), (50, 26304), (67, 26454), (70, 26481), (77, 26556), (82, 26586), (85, 26607), (87, 26625), (97, 26679), (99, 26712), (117, 26841), (129, 26919), (130, 26931), (133, 26952), (135, 26967), (139, 26979), (150, 27060), (151, 27066), (161, 27126), (166, 27168), (170, 27186), (173, 27219), (181, 27267), (186, 27327), (188, 27342), (191, 27357), (192, 27360), (212, 27495), (216, 27525),

Gene: GinPorsche\_25 Start: 25433, Stop: 26866, Start Num: 13

Candidate Starts for GinPorsche\_25:

(Start: 13 @25433 has 308 MA's), (20, 25466), (23, 25490), (24, 25493), (28, 25523), (35, 25562), (36, 25565), (38, 25571), (48, 25613), (57, 25646), (62, 25688), (63, 25715), (74, 25829), (76, 25862), (77, 25865), (78, 25871), (83, 25907), (85, 25916), (92, 25967), (98, 26009), (107, 26084), (109, 26120),

(115, 26138), (116, 26147), (117, 26150), (121, 26171), (129, 26228), (130, 26240), (137, 26282), (139, 26288), (150, 26369), (151, 26375), (154, 26399), (158, 26417), (162, 26450), (164, 26465), (166, 26477), (173, 26528), (176, 26540), (190, 26663), (191, 26666), (202, 26732), (205, 26753), (211, 26801), (217, 26840), (220, 26861),

Gene: Giraffe\_29 Start: 25928, Stop: 27361, Start Num: 13

Candidate Starts for Giraffe\_29:

(Start: 13 @25928 has 308 MA's), (23, 25985), (27, 26009), (32, 26033), (48, 26108), (74, 26324), (75, 26351), (77, 26360), (79, 26381), (83, 26402), (85, 26411), (94, 26474), (105, 26567), (112, 26624), (116, 26642), (136, 26774), (145, 26822), (150, 26864), (151, 26870), (152, 26873), (158, 26912), (162, 26945), (163, 26951), (164, 26960), (167, 26975), (172, 27020), (185, 27125), (191, 27161), (201, 27221), (203, 27230), (212, 27299),

Gene: Glass\_30 Start: 27606, Stop: 29042, Start Num: 14

Candidate Starts for Glass\_30:

(Start: 14 @27606 has 83 MA's), (20, 27639), (23, 27663), (24, 27666), (27, 27687), (31, 27708), (39, 27741), (49, 27786), (52, 27795), (62, 27858), (76, 28038), (77, 28041), (79, 28062), (84, 28086), (85, 28092), (87, 28110), (91, 28140), (92, 28143), (95, 28158), (97, 28164), (104, 28233), (108, 28287), (112, 28305), (116, 28323), (117, 28326), (122, 28350), (129, 28404), (134, 28443), (138, 28461), (142, 28482), (149, 28539), (150, 28545), (152, 28554), (161, 28611), (168, 28662), (170, 28671), (173, 28704), (175, 28713), (184, 28779), (187, 28821), (191, 28842), (194, 28854), (195, 28872), (203, 28911), (211, 28977), (212, 28980), (216, 29010),

Gene: GlenHope\_30 Start: 26139, Stop: 27569, Start Num: 14

Candidate Starts for GlenHope\_30:

(Start: 14 @26139 has 83 MA's), (23, 26196), (27, 26220), (28, 26229), (50, 26316), (67, 26466), (70, 26493), (77, 26568), (82, 26598), (85, 26619), (87, 26637), (97, 26691), (99, 26724), (117, 26853), (129, 26931), (130, 26943), (133, 26964), (135, 26979), (139, 26991), (150, 27072), (151, 27078), (159, 27126), (161, 27138), (166, 27180), (170, 27198), (173, 27231), (181, 27279), (186, 27339), (188, 27354), (191, 27369), (192, 27372), (212, 27507), (216, 27537),

Gene: GodPhather\_23 Start: 25022, Stop: 26458, Start Num: 15

Candidate Starts for GodPhather\_23:

(6, 24953), (8, 24980), (Start: 15 @25022 has 8 MA's), (19, 25043), (49, 25199), (52, 25208), (64, 25310), (66, 25328), (70, 25379), (72, 25409), (75, 25445), (77, 25454), (80, 25478), (82, 25484), (92, 25556), (112, 25718), (114, 25724), (116, 25736), (117, 25739), (129, 25817), (130, 25829), (135, 25865), (140, 25880), (142, 25898), (150, 25961), (151, 25967), (157, 26006), (158, 26009), (161, 26027), (166, 26069), (168, 26078), (170, 26087), (173, 26120), (182, 26180), (184, 26195), (186, 26228), (191, 26258), (200, 26312), (202, 26324), (211, 26393), (212, 26396), (216, 26426),

Gene: Godines\_30 Start: 27486, Stop: 28922, Start Num: 14

Candidate Starts for Godines\_30:

(Start: 14 @27486 has 83 MA's), (20, 27519), (23, 27543), (24, 27546), (27, 27567), (31, 27588), (39, 27621), (49, 27666), (52, 27675), (62, 27738), (76, 27918), (77, 27921), (79, 27942), (84, 27966), (85, 27972), (87, 27990), (91, 28020), (92, 28023), (95, 28038), (97, 28044), (104, 28113), (108, 28167), (116, 28203), (117, 28206), (122, 28230), (129, 28284), (134, 28323), (138, 28341), (142, 28362), (149, 28419), (150, 28425), (152, 28434), (161, 28491), (168, 28542), (170, 28551), (173, 28584), (175, 28593), (184, 28659), (187, 28701), (191, 28722), (194, 28734), (195, 28752), (203, 28791), (211, 28857), (212, 28860), (216, 28890),

Gene: Gophee\_29 Start: 26210, Stop: 27643, Start Num: 13

Candidate Starts for Gophee\_29:

(Start: 13 @26210 has 308 MA's), (23, 26267), (27, 26291), (32, 26315), (48, 26390), (74, 26606), (75, 26633), (77, 26642), (79, 26663), (83, 26684), (85, 26693), (94, 26756), (105, 26849), (112, 26906), (116, 26924), (136, 27056), (145, 27104), (150, 27146), (151, 27152), (152, 27155), (158, 27194), (162, 27227), (163, 27233), (164, 27242), (167, 27257), (172, 27302), (185, 27407), (191, 27443), (201, 27503), (203, 27512), (212, 27581),

Gene: Grand2040\_28 Start: 25943, Stop: 27376, Start Num: 13

Candidate Starts for Grand2040\_28:

(Start: 13 @25943 has 308 MA's), (23, 26000), (27, 26024), (32, 26048), (48, 26123), (74, 26339), (75, 26366), (77, 26375), (79, 26396), (83, 26417), (85, 26426), (94, 26489), (105, 26582), (112, 26639), (116, 26657), (136, 26789), (145, 26837), (150, 26879), (151, 26885), (152, 26888), (158, 26927), (162, 26960), (163, 26966), (164, 26975), (167, 26990), (172, 27035), (185, 27140), (191, 27176), (201, 27236), (203, 27245), (212, 27314),

Gene: Gwilliam\_29 Start: 26222, Stop: 27655, Start Num: 13

Candidate Starts for Gwilliam\_29:

(Start: 13 @26222 has 308 MA's), (23, 26279), (27, 26303), (32, 26327), (48, 26402), (74, 26618), (75, 26645), (77, 26654), (79, 26675), (83, 26696), (85, 26705), (94, 26768), (105, 26861), (112, 26918), (116, 26936), (136, 27068), (145, 27116), (150, 27158), (151, 27164), (152, 27167), (158, 27206), (162, 27239), (163, 27245), (164, 27254), (167, 27269), (172, 27314), (185, 27419), (191, 27455), (201, 27515), (203, 27524), (212, 27593),

Gene: Gyarad\_0029 Start: 26224, Stop: 27657, Start Num: 13

Candidate Starts for Gyarad\_0029:

(Start: 13 @26224 has 308 MA's), (23, 26281), (27, 26305), (32, 26329), (48, 26404), (74, 26620), (75, 26647), (77, 26656), (79, 26677), (83, 26698), (85, 26707), (94, 26770), (105, 26863), (112, 26920), (116, 26938), (136, 27070), (145, 27118), (150, 27160), (151, 27166), (152, 27169), (158, 27208), (162, 27241), (163, 27247), (164, 27256), (167, 27271), (172, 27316), (185, 27421), (191, 27457), (201, 27517), (203, 27526), (212, 27595),

Gene: HSavage\_29 Start: 26229, Stop: 27662, Start Num: 13

Candidate Starts for HSavage\_29:

(Start: 13 @26229 has 308 MA's), (23, 26286), (27, 26310), (32, 26334), (48, 26409), (74, 26625), (75, 26652), (77, 26661), (79, 26682), (83, 26703), (85, 26712), (94, 26775), (105, 26868), (112, 26925), (116, 26943), (136, 27075), (145, 27123), (150, 27165), (151, 27171), (152, 27174), (158, 27213), (162, 27246), (163, 27252), (164, 27261), (167, 27276), (172, 27321), (185, 27426), (191, 27462), (201, 27522), (203, 27531), (212, 27600),

Gene: Haimas\_29 Start: 26220, Stop: 27653, Start Num: 13

Candidate Starts for Haimas\_29:

(Start: 13 @26220 has 308 MA's), (23, 26277), (27, 26301), (32, 26325), (48, 26400), (74, 26616), (75, 26643), (77, 26652), (79, 26673), (83, 26694), (85, 26703), (94, 26766), (105, 26859), (112, 26916), (116, 26934), (136, 27066), (145, 27114), (150, 27156), (151, 27162), (152, 27165), (158, 27204), (162, 27237), (163, 27243), (164, 27252), (167, 27267), (172, 27312), (185, 27417), (191, 27453), (201, 27513), (203, 27522), (212, 27591),

Gene: Haleema\_28 Start: 25943, Stop: 27376, Start Num: 13

Candidate Starts for Haleema\_28:

(Start: 13 @25943 has 308 MA's), (23, 26000), (27, 26024), (32, 26048), (48, 26123), (74, 26339), (75, 26366), (77, 26375), (79, 26396), (83, 26417), (85, 26426), (94, 26489), (105, 26582), (112, 26639), (116, 26657), (136, 26789), (145, 26837), (150, 26879), (151, 26885), (152, 26888), (158, 26927), (162, 26960), (163, 26966), (164, 26975), (167, 26990), (172, 27035), (185, 27140), (191, 27176), (201, 27236), (203, 27245), (212, 27314),

Gene: Halfpint\_28 Start: 25962, Stop: 27392, Start Num: 14

Candidate Starts for Halfpint\_28:

(Start: 14 @25962 has 83 MA's), (23, 26019), (27, 26043), (28, 26052), (50, 26139), (67, 26289), (70, 26316), (77, 26391), (82, 26421), (85, 26442), (87, 26460), (97, 26514), (99, 26547), (101, 26565), (117, 26676), (129, 26754), (130, 26766), (133, 26787), (135, 26802), (139, 26814), (150, 26895), (151, 26901), (161, 26961), (166, 27003), (170, 27021), (173, 27054), (181, 27102), (186, 27162), (188, 27177), (191, 27192), (192, 27195), (212, 27330), (216, 27360),

Gene: Hally898\_25 Start: 25445, Stop: 26878, Start Num: 13

Candidate Starts for Hally898\_25:

(Start: 13 @25445 has 308 MA's), (20, 25478), (23, 25502), (24, 25505), (28, 25535), (35, 25574), (36, 25577), (38, 25583), (48, 25625), (57, 25658), (62, 25700), (63, 25727), (74, 25841), (76, 25874), (77, 25877), (78, 25883), (83, 25919), (85, 25928), (92, 25979), (98, 26021), (107, 26096), (109, 26132), (115, 26150), (116, 26159), (117, 26162), (121, 26183), (129, 26240), (130, 26252), (137, 26294), (139, 26300), (150, 26381), (151, 26387), (154, 26411), (158, 26429), (162, 26462), (164, 26477), (166, 26489), (173, 26540), (176, 26552), (190, 26675), (191, 26678), (202, 26744), (205, 26765), (211, 26813), (217, 26852), (220, 26873),

Gene: Hamish\_29 Start: 26212, Stop: 27645, Start Num: 13

Candidate Starts for Hamish\_29:

(Start: 13 @26212 has 308 MA's), (23, 26269), (27, 26293), (32, 26317), (48, 26392), (74, 26608), (75, 26635), (77, 26644), (79, 26665), (83, 26686), (85, 26695), (94, 26758), (105, 26851), (112, 26908), (116, 26926), (136, 27058), (145, 27106), (150, 27148), (151, 27154), (152, 27157), (158, 27196), (162, 27229), (163, 27235), (164, 27244), (167, 27259), (172, 27304), (185, 27409), (191, 27445), (201, 27505), (203, 27514), (212, 27583),

Gene: Hangman\_26 Start: 26457, Stop: 27890, Start Num: 13

Candidate Starts for Hangman\_26:

(Start: 13 @26457 has 308 MA's), (20, 26490), (23, 26514), (24, 26517), (28, 26547), (36, 26589), (38, 26595), (48, 26637), (57, 26670), (62, 26712), (71, 26829), (74, 26853), (77, 26889), (78, 26895), (83, 26931), (85, 26940), (92, 26991), (98, 27033), (109, 27144), (115, 27162), (116, 27171), (117, 27174), (121, 27195), (129, 27252), (130, 27264), (137, 27306), (139, 27312), (150, 27393), (151, 27399), (154, 27423), (157, 27438), (158, 27441), (162, 27474), (164, 27489), (166, 27501), (173, 27552), (174, 27558), (176, 27564), (187, 27669), (190, 27687), (191, 27690), (202, 27756), (205, 27777), (211, 27825), (217, 27864), (220, 27885),

Gene: Hartsy\_29 Start: 26263, Stop: 27696, Start Num: 13

Candidate Starts for Hartsy\_29:

(Start: 13 @26263 has 308 MA's), (23, 26320), (27, 26344), (32, 26368), (48, 26443), (75, 26686), (77, 26695), (79, 26716), (83, 26737), (85, 26746), (94, 26809), (105, 26902), (112, 26959), (116, 26977), (136, 27109), (145, 27157), (150, 27199), (151, 27205), (152, 27208), (158, 27247), (161, 27265), (162, 27280), (163, 27286), (164, 27295), (167, 27310), (172, 27355), (185, 27460), (191, 27496), (201, 27556), (203, 27565), (206, 27592), (212, 27634), (215, 27655),

Gene: Harvey\_29 Start: 26238, Stop: 27671, Start Num: 13

Candidate Starts for Harvey\_29:

(Start: 13 @26238 has 308 MA's), (23, 26295), (27, 26319), (32, 26343), (48, 26418), (74, 26634), (75, 26661), (77, 26670), (79, 26691), (83, 26712), (85, 26721), (94, 26784), (105, 26877), (112, 26934), (116, 26952), (136, 27084), (145, 27132), (150, 27174), (151, 27180), (152, 27183), (158, 27222), (162, 27255), (163, 27261), (164, 27270), (167, 27285), (172, 27330), (185, 27435), (191, 27471), (201, 27531), (203, 27540), (212, 27609),

Gene: HarveySr\_29 Start: 26126, Stop: 27556, Start Num: 14

Candidate Starts for HarveySr\_29:

(Start: 14 @26126 has 83 MA's), (23, 26183), (27, 26207), (28, 26216), (50, 26303), (70, 26480), (75, 26546), (77, 26555), (82, 26585), (85, 26606), (87, 26624), (97, 26678), (117, 26840), (129, 26918), (130, 26930), (133, 26951), (135, 26966), (139, 26978), (150, 27059), (151, 27065), (161, 27125), (166, 27167), (170, 27185), (173, 27218), (181, 27266), (186, 27326), (188, 27341), (191, 27356), (192, 27359), (212, 27494), (216, 27524),

Gene: Hashim76\_32 Start: 26274, Stop: 27707, Start Num: 13

Candidate Starts for Hashim76\_32:

(Start: 13 @26274 has 308 MA's), (24, 26334), (27, 26355), (32, 26379), (35, 26403), (37, 26409), (48, 26454), (67, 26607), (76, 26703), (90, 26793), (92, 26808), (98, 26850), (112, 26970), (124, 27024), (128, 27060), (129, 27069), (135, 27117), (137, 27123), (139, 27129), (140, 27132), (150, 27210), (157, 27255), (164, 27306), (168, 27327), (172, 27366), (203, 27576), (214, 27660), (217, 27681),

Gene: Heath\_25 Start: 26058, Stop: 27491, Start Num: 13

Candidate Starts for Heath\_25:

(Start: 13 @26058 has 308 MA's), (20, 26091), (23, 26115), (24, 26118), (28, 26148), (38, 26196), (48, 26238), (57, 26271), (62, 26313), (63, 26340), (74, 26454), (76, 26487), (78, 26496), (83, 26532), (85, 26541), (92, 26592), (98, 26634), (109, 26745), (116, 26772), (117, 26775), (121, 26796), (129, 26853), (130, 26865), (137, 26907), (139, 26913), (150, 26994), (151, 27000), (154, 27024), (158, 27042), (162, 27075), (164, 27090), (166, 27102), (173, 27153), (176, 27165), (190, 27288), (191, 27291), (202, 27357), (205, 27378), (211, 27426), (217, 27465), (220, 27486),

Gene: Heathcliff\_29 Start: 26108, Stop: 27538, Start Num: 14

Candidate Starts for Heathcliff\_29:

(Start: 14 @26108 has 83 MA's), (23, 26165), (27, 26189), (28, 26198), (50, 26285), (67, 26435), (70, 26462), (77, 26537), (82, 26567), (85, 26588), (87, 26606), (97, 26660), (99, 26693), (117, 26822), (129, 26900), (130, 26912), (133, 26933), (135, 26948), (139, 26960), (150, 27041), (151, 27047), (159, 27095), (161, 27107), (166, 27149), (170, 27167), (173, 27200), (181, 27248), (186, 27308), (188, 27323), (191, 27338), (192, 27341), (202, 27404), (212, 27476), (216, 27506),

Gene: Hedgerow\_30 Start: 27588, Stop: 29024, Start Num: 14

Candidate Starts for Hedgerow\_30:

(Start: 14 @27588 has 83 MA's), (20, 27621), (23, 27645), (24, 27648), (27, 27669), (31, 27690), (39, 27723), (49, 27768), (52, 27777), (62, 27840), (76, 28020), (77, 28023), (79, 28044), (84, 28068), (85, 28074), (87, 28092), (91, 28122), (92, 28125), (95, 28140), (97, 28146), (104, 28215), (108, 28269), (112, 28287), (116, 28305), (117, 28308), (122, 28332), (129, 28386), (134, 28425), (138, 28443), (142, 28464), (149, 28521), (150, 28527), (152, 28536), (161, 28593), (168, 28644), (170, 28653), (173, 28686), (175, 28695), (184, 28761), (187, 28803), (191, 28824), (194, 28836), (195, 28854), (203, 28893), (211, 28959), (212, 28962), (216, 28992),

Gene: Held\_29 Start: 25927, Stop: 27360, Start Num: 13

Candidate Starts for Held\_29:

(Start: 13 @25927 has 308 MA's), (23, 25984), (27, 26008), (32, 26032), (48, 26107), (74, 26323), (75, 26350), (77, 26359), (79, 26380), (83, 26401), (85, 26410), (94, 26473), (105, 26566), (112, 26623), (116, 26641), (136, 26773), (145, 26821), (150, 26863), (151, 26869), (152, 26872), (158, 26911), (162, 26944), (163, 26950), (164, 26959), (167, 26974), (172, 27019), (185, 27124), (191, 27160), (201, 27220), (203, 27229), (212, 27298),

Gene: HenryJackson\_28 Start: 25943, Stop: 27376, Start Num: 13

Candidate Starts for HenryJackson\_28:

(Start: 13 @25943 has 308 MA's), (23, 26000), (27, 26024), (32, 26048), (48, 26123), (74, 26339), (75, 26366), (77, 26375), (79, 26396), (83, 26417), (85, 26426), (94, 26489), (105, 26582), (112, 26639), (116, 26657), (136, 26789), (145, 26837), (150, 26879), (151, 26885), (152, 26888), (158, 26927), (162, 26960), (163, 26966), (164, 26975), (167, 26990), (172, 27035), (185, 27140), (191, 27176), (201, 27236), (203, 27245), (212, 27314),

Gene: Hertubise\_29 Start: 26234, Stop: 27667, Start Num: 13

Candidate Starts for Hertubise\_29:

(Start: 13 @26234 has 308 MA's), (23, 26291), (27, 26315), (32, 26339), (48, 26414), (74, 26630), (75, 26657), (77, 26666), (79, 26687), (83, 26708), (85, 26717), (94, 26780), (105, 26873), (112, 26930), (116, 26948), (136, 27080), (145, 27128), (150, 27170), (151, 27176), (152, 27179), (158, 27218), (162, 27251), (163, 27257), (164, 27266), (167, 27281), (172, 27326), (185, 27431), (191, 27467), (201, 27527), (203, 27536), (212, 27605),

Gene: Hetaeria\_29 Start: 26236, Stop: 27669, Start Num: 13

Candidate Starts for Hetaeria\_29:

(Start: 13 @26236 has 308 MA's), (23, 26293), (27, 26317), (32, 26341), (48, 26416), (74, 26632), (75, 26659), (77, 26668), (79, 26689), (83, 26710), (85, 26719), (94, 26782), (105, 26875), (112, 26932), (116, 26950), (136, 27082), (145, 27130), (150, 27172), (151, 27178), (152, 27181), (158, 27220), (162, 27253), (163, 27259), (164, 27268), (167, 27283), (172, 27328), (185, 27433), (191, 27469), (201, 27529), (203, 27538), (212, 27607),

Gene: HighStump\_28 Start: 25926, Stop: 27359, Start Num: 13

Candidate Starts for HighStump\_28:

(Start: 13 @25926 has 308 MA's), (23, 25983), (27, 26007), (32, 26031), (48, 26106), (74, 26322), (75, 26349), (77, 26358), (79, 26379), (83, 26400), (85, 26409), (94, 26472), (105, 26565), (112, 26622), (116, 26640), (136, 26772), (145, 26820), (150, 26862), (151, 26868), (152, 26871), (158, 26910), (162, 26943), (163, 26949), (164, 26958), (167, 26973), (172, 27018), (185, 27123), (191, 27159), (201, 27219), (203, 27228), (212, 27297),

Gene: Hocus\_28 Start: 25935, Stop: 27368, Start Num: 13

Candidate Starts for Hocus\_28:

(Start: 13 @25935 has 308 MA's), (23, 25992), (27, 26016), (32, 26040), (48, 26115), (75, 26358), (77, 26367), (79, 26388), (83, 26409), (85, 26418), (94, 26481), (105, 26574), (106, 26577), (112, 26631), (116, 26649), (136, 26781), (145, 26829), (150, 26871), (151, 26877), (152, 26880), (158, 26919), (161, 26937), (162, 26952), (163, 26958), (164, 26967), (167, 26982), (172, 27027), (185, 27132), (191, 27168), (201, 27228), (203, 27237), (206, 27264), (212, 27306), (215, 27327),

Gene: Holeinone\_30 Start: 27468, Stop: 28904, Start Num: 14

Candidate Starts for Holeinone\_30:

(Start: 14 @27468 has 83 MA's), (20, 27501), (23, 27525), (24, 27528), (27, 27549), (31, 27570), (39, 27603), (49, 27648), (52, 27657), (62, 27720), (76, 27900), (77, 27903), (79, 27924), (84, 27948), (85, 27954), (87, 27972), (91, 28002), (92, 28005), (95, 28020), (97, 28026), (104, 28095), (108, 28149), (112, 28167), (116, 28185), (117, 28188), (122, 28212), (129, 28266), (134, 28305), (138, 28323), (142, 28344), (149, 28401), (150, 28407), (152, 28416), (161, 28473), (168, 28524), (170, 28533), (173, 28566), (175, 28575), (184, 28641), (187, 28683), (191, 28704), (194, 28716), (195, 28734), (203, 28773), (211, 28839), (212, 28842), (216, 28872),

Gene: Horchata\_29 Start: 26214, Stop: 27647, Start Num: 13

Candidate Starts for Horchata\_29:

(Start: 13 @26214 has 308 MA's), (23, 26271), (27, 26295), (32, 26319), (48, 26394), (74, 26610), (75, 26637), (77, 26646), (79, 26667), (83, 26688), (85, 26697), (94, 26760), (105, 26853), (112, 26910), (116, 26928), (136, 27060), (145, 27108), (150, 27150), (151, 27156), (152, 27159), (158, 27198),



(162, 27231), (163, 27237), (164, 27246), (167, 27261), (172, 27306), (185, 27411), (191, 27447), (201, 27507), (203, 27516), (212, 27585),

Gene: Hosp\_022 Start: 23250, Stop: 24683, Start Num: 13

Candidate Starts for Hosp\_022:

(Start: 13 @23250 has 308 MA's), (23, 23307), (26, 23325), (33, 23367), (59, 23493), (62, 23505), (63, 23532), (68, 23592), (74, 23646), (76, 23679), (77, 23682), (78, 23688), (85, 23733), (97, 23805), (107, 23901), (116, 23964), (117, 23967), (121, 23988), (124, 24000), (128, 24036), (139, 24105), (143, 24126), (150, 24186), (158, 24234), (162, 24267), (163, 24273), (168, 24303), (173, 24345), (186, 24453), (195, 24513), (202, 24549), (203, 24552), (211, 24618),

Gene: Hydro\_26 Start: 26474, Stop: 27907, Start Num: 13

Candidate Starts for Hydro\_26:

(Start: 13 @26474 has 308 MA's), (20, 26507), (23, 26531), (24, 26534), (28, 26564), (36, 26606), (38, 26612), (48, 26654), (57, 26687), (62, 26729), (71, 26846), (74, 26870), (77, 26906), (78, 26912), (83, 26948), (85, 26957), (92, 27008), (98, 27050), (109, 27161), (115, 27179), (116, 27188), (117, 27191), (121, 27212), (129, 27269), (130, 27281), (137, 27323), (139, 27329), (150, 27410), (151, 27416), (154, 27440), (158, 27458), (162, 27491), (164, 27506), (166, 27518), (173, 27569), (176, 27581), (190, 27704), (191, 27707), (202, 27773), (205, 27794), (211, 27842), (217, 27881), (220, 27902),

Gene: ImtiyazSitla\_28 Start: 25776, Stop: 27209, Start Num: 13

Candidate Starts for ImtiyazSitla\_28:

(Start: 13 @25776 has 308 MA's), (23, 25833), (27, 25857), (32, 25881), (48, 25956), (75, 26199), (77, 26208), (79, 26229), (83, 26250), (85, 26259), (94, 26322), (105, 26415), (106, 26418), (112, 26472), (116, 26490), (136, 26622), (145, 26670), (150, 26712), (151, 26718), (152, 26721), (158, 26760), (161, 26778), (162, 26793), (163, 26799), (164, 26808), (167, 26823), (172, 26868), (185, 26973), (191, 27009), (201, 27069), (203, 27078), (206, 27105), (212, 27147), (215, 27168),

Gene: Imvubu\_22 Start: 23956, Stop: 25392, Start Num: 13

Candidate Starts for Imvubu\_22:

(Start: 13 @23956 has 308 MA's), (26, 24031), (43, 24118), (47, 24133), (48, 24136), (63, 24238), (74, 24355), (77, 24391), (79, 24412), (85, 24442), (92, 24493), (100, 24556), (112, 24655), (117, 24676), (128, 24745), (129, 24754), (132, 24772), (137, 24808), (139, 24814), (141, 24829), (143, 24835), (154, 24925), (168, 25012), (170, 25021), (176, 25066), (181, 25102), (186, 25162), (195, 25222), (216, 25360), (217, 25366), (218, 25369),

Gene: Inchworm\_29 Start: 26212, Stop: 27645, Start Num: 13

Candidate Starts for Inchworm\_29:

(Start: 13 @26212 has 308 MA's), (23, 26269), (27, 26293), (32, 26317), (48, 26392), (75, 26635), (77, 26644), (79, 26665), (83, 26686), (85, 26695), (94, 26758), (105, 26851), (106, 26854), (112, 26908), (116, 26926), (136, 27058), (145, 27106), (150, 27148), (151, 27154), (152, 27157), (158, 27196), (161, 27214), (162, 27229), (163, 27235), (164, 27244), (167, 27259), (172, 27304), (185, 27409), (191, 27445), (201, 27505), (203, 27514), (212, 27583),

Gene: Indlovu\_26 Start: 26231, Stop: 27664, Start Num: 13

Candidate Starts for Indlovu\_26:

(Start: 13 @26231 has 308 MA's), (23, 26288), (25, 26300), (38, 26369), (48, 26411), (57, 26444), (76, 26660), (77, 26663), (83, 26705), (85, 26714), (95, 26780), (117, 26948), (120, 26963), (128, 27017), (129, 27026), (150, 27167), (151, 27173), (157, 27212), (163, 27254), (164, 27263), (168, 27284), (172, 27323), (186, 27434), (191, 27464), (211, 27599), (216, 27632),

Gene: Inverness\_29 Start: 26226, Stop: 27659, Start Num: 13

Candidate Starts for Inverness\_29:

(Start: 13 @26226 has 308 MA's), (23, 26283), (27, 26307), (32, 26331), (48, 26406), (74, 26622), (75, 26649), (77, 26658), (79, 26679), (83, 26700), (85, 26709), (94, 26772), (105, 26865), (112, 26922), (116, 26940), (136, 27072), (145, 27120), (150, 27162), (151, 27168), (152, 27171), (158, 27210), (162, 27243), (163, 27249), (164, 27258), (167, 27273), (172, 27318), (185, 27423), (191, 27459), (201, 27519), (203, 27528), (212, 27597),

Gene: Iridoclysis\_29 Start: 26206, Stop: 27639, Start Num: 13

Candidate Starts for Iridoclysis\_29:

(Start: 13 @26206 has 308 MA's), (23, 26263), (27, 26287), (32, 26311), (48, 26386), (74, 26602), (75, 26629), (77, 26638), (79, 26659), (83, 26680), (85, 26689), (94, 26752), (105, 26845), (112, 26902), (116, 26920), (136, 27052), (145, 27100), (150, 27142), (151, 27148), (152, 27151), (158, 27190), (162, 27223), (163, 27229), (164, 27238), (167, 27253), (172, 27298), (185, 27403), (191, 27439), (201, 27499), (203, 27508), (212, 27577),

Gene: IsaacEli\_29 Start: 26230, Stop: 27663, Start Num: 13

Candidate Starts for IsaacEli\_29:

(Start: 13 @26230 has 308 MA's), (23, 26287), (27, 26311), (32, 26335), (48, 26410), (74, 26626), (75, 26653), (77, 26662), (79, 26683), (83, 26704), (85, 26713), (94, 26776), (105, 26869), (112, 26926), (116, 26944), (136, 27076), (145, 27124), (150, 27166), (151, 27172), (152, 27175), (158, 27214), (162, 27247), (163, 27253), (164, 27262), (167, 27277), (172, 27322), (185, 27427), (191, 27463), (201, 27523), (203, 27532), (212, 27601),

Gene: ItsyBitsy1\_30 Start: 27470, Stop: 28906, Start Num: 14

Candidate Starts for ItsyBitsy1\_30:

(Start: 14 @27470 has 83 MA's), (20, 27503), (23, 27527), (24, 27530), (27, 27551), (31, 27572), (39, 27605), (49, 27650), (50, 27653), (52, 27659), (62, 27722), (76, 27902), (77, 27905), (79, 27926), (84, 27950), (85, 27956), (87, 27974), (91, 28004), (92, 28007), (95, 28022), (97, 28028), (104, 28097), (108, 28151), (112, 28169), (116, 28187), (117, 28190), (122, 28214), (129, 28268), (134, 28307), (138, 28325), (142, 28346), (149, 28403), (150, 28409), (152, 28418), (161, 28475), (168, 28526), (170, 28535), (173, 28568), (175, 28577), (184, 28643), (187, 28685), (191, 28706), (194, 28718), (195, 28736), (203, 28775), (211, 28841), (212, 28844), (216, 28874),

Gene: JAMaL\_26 Start: 26644, Stop: 28077, Start Num: 13

Candidate Starts for JAMaL\_26:

(Start: 13 @26644 has 308 MA's), (20, 26677), (23, 26701), (24, 26704), (28, 26734), (36, 26776), (38, 26782), (48, 26824), (57, 26857), (62, 26899), (63, 26926), (74, 27040), (76, 27073), (77, 27076), (78, 27082), (83, 27118), (85, 27127), (92, 27178), (98, 27220), (109, 27331), (115, 27349), (116, 27358), (117, 27361), (121, 27382), (129, 27439), (130, 27451), (137, 27493), (139, 27499), (150, 27580), (151, 27586), (154, 27610), (158, 27628), (162, 27661), (166, 27688), (173, 27739), (176, 27751), (190, 27874), (191, 27877), (202, 27943), (205, 27964), (211, 28012), (217, 28051), (220, 28072),

Gene: JDog\_28 Start: 25939, Stop: 27372, Start Num: 13

Candidate Starts for JDog\_28:

(Start: 13 @25939 has 308 MA's), (23, 25996), (27, 26020), (32, 26044), (48, 26119), (75, 26362), (77, 26371), (79, 26392), (83, 26413), (85, 26422), (94, 26485), (105, 26578), (112, 26635), (116, 26653), (145, 26833), (150, 26875), (151, 26881), (152, 26884), (158, 26923), (161, 26941), (162, 26956), (163, 26962), (164, 26971), (167, 26986), (172, 27031), (185, 27136), (191, 27172), (201, 27232), (203, 27241), (206, 27268), (212, 27310), (215, 27331),

Gene: JacAttac\_29 Start: 26212, Stop: 27645, Start Num: 13

Candidate Starts for JacAttac\_29:

(Start: 13 @26212 has 308 MA's), (23, 26269), (27, 26293), (32, 26317), (48, 26392), (74, 26608), (75, 26635), (77, 26644), (79, 26665), (83, 26686), (85, 26695), (94, 26758), (105, 26851), (112, 26908),

(116, 26926), (136, 27058), (145, 27106), (150, 27148), (151, 27154), (152, 27157), (158, 27196), (162, 27229), (163, 27235), (164, 27244), (167, 27259), (172, 27304), (185, 27409), (191, 27445), (201, 27505), (203, 27514), (212, 27583),

Gene: Jackstina\_26 Start: 26069, Stop: 27499, Start Num: 14

Candidate Starts for Jackstina\_26:

(Start: 14 @26069 has 83 MA's), (23, 26126), (27, 26150), (28, 26159), (50, 26246), (67, 26396), (70, 26423), (77, 26498), (82, 26528), (85, 26549), (87, 26567), (97, 26621), (99, 26654), (117, 26783), (129, 26861), (130, 26873), (133, 26894), (135, 26909), (139, 26921), (150, 27002), (151, 27008), (159, 27056), (161, 27068), (166, 27110), (170, 27128), (173, 27161), (181, 27209), (186, 27269), (188, 27284), (191, 27299), (192, 27302), (212, 27437), (216, 27467),

Gene: JaguarMi\_26 Start: 25942, Stop: 27375, Start Num: 13

Candidate Starts for JaguarMi\_26:

(Start: 13 @25942 has 308 MA's), (20, 25975), (23, 25999), (24, 26002), (28, 26032), (36, 26074), (38, 26080), (41, 26095), (48, 26122), (57, 26155), (62, 26197), (63, 26224), (74, 26338), (76, 26371), (77, 26374), (78, 26380), (83, 26416), (85, 26425), (92, 26476), (109, 26629), (115, 26647), (116, 26656), (117, 26659), (121, 26680), (125, 26698), (128, 26728), (129, 26737), (130, 26749), (137, 26791), (139, 26797), (150, 26878), (151, 26884), (154, 26908), (157, 26923), (158, 26926), (162, 26959), (164, 26974), (166, 26986), (173, 27037), (176, 27049), (187, 27154), (190, 27172), (191, 27175), (202, 27241), (205, 27262), (211, 27310), (216, 27343), (217, 27349), (220, 27370),

Gene: JakeO\_28 Start: 25942, Stop: 27375, Start Num: 13

Candidate Starts for JakeO\_28:

(Start: 13 @25942 has 308 MA's), (23, 25999), (27, 26023), (32, 26047), (48, 26122), (75, 26365), (77, 26374), (79, 26395), (83, 26416), (85, 26425), (94, 26488), (105, 26581), (106, 26584), (112, 26638), (116, 26656), (136, 26788), (145, 26836), (150, 26878), (151, 26884), (152, 26887), (158, 26926), (161, 26944), (162, 26959), (163, 26965), (164, 26974), (167, 26989), (172, 27034), (185, 27139), (191, 27175), (201, 27235), (203, 27244), (206, 27271), (212, 27313), (215, 27334),

Gene: JangoPhett\_29 Start: 26213, Stop: 27646, Start Num: 13

Candidate Starts for JangoPhett\_29:

(Start: 13 @26213 has 308 MA's), (23, 26270), (27, 26294), (32, 26318), (48, 26393), (74, 26609), (75, 26636), (77, 26645), (79, 26666), (83, 26687), (85, 26696), (94, 26759), (105, 26852), (112, 26909), (116, 26927), (136, 27059), (145, 27107), (150, 27149), (151, 27155), (152, 27158), (158, 27197), (161, 27215), (162, 27230), (163, 27236), (164, 27245), (167, 27260), (172, 27305), (185, 27410), (191, 27446), (201, 27506), (203, 27515), (212, 27584),

Gene: Jeon\_22 Start: 24764, Stop: 26200, Start Num: 15

Candidate Starts for Jeon\_22:

(Start: 15 @24764 has 8 MA's), (19, 24785), (49, 24941), (52, 24950), (64, 25052), (66, 25070), (70, 25121), (72, 25151), (75, 25187), (77, 25196), (80, 25220), (82, 25226), (92, 25298), (112, 25460), (114, 25466), (116, 25478), (117, 25481), (129, 25559), (130, 25571), (135, 25607), (140, 25622), (142, 25640), (150, 25703), (151, 25709), (157, 25748), (158, 25751), (161, 25769), (166, 25811), (168, 25820), (170, 25829), (173, 25862), (182, 25922), (184, 25937), (186, 25970), (191, 26000), (200, 26054), (202, 26066), (211, 26135), (212, 26138), (216, 26168),

Gene: Jillium\_28 Start: 25936, Stop: 27369, Start Num: 13

Candidate Starts for Jillium\_28:

(Start: 13 @25936 has 308 MA's), (23, 25993), (27, 26017), (32, 26041), (48, 26116), (74, 26332), (75, 26359), (77, 26368), (79, 26389), (83, 26410), (85, 26419), (94, 26482), (105, 26575), (112, 26632), (116, 26650), (136, 26782), (145, 26830), (150, 26872), (151, 26878), (152, 26881), (158, 26920), (162, 26953), (163, 26959), (164, 26968), (167, 26983), (172, 27028), (185, 27133), (191, 27169),

(201, 27229), (203, 27238), (212, 27307),

Gene: Jiminy\_28 Start: 25780, Stop: 27213, Start Num: 13

Candidate Starts for Jiminy\_28:

(Start: 13 @25780 has 308 MA's), (23, 25837), (27, 25861), (32, 25885), (48, 25960), (74, 26176), (75, 26203), (77, 26212), (79, 26233), (83, 26254), (85, 26263), (94, 26326), (105, 26419), (116, 26494), (136, 26626), (145, 26674), (150, 26716), (151, 26722), (152, 26725), (158, 26764), (161, 26782), (162, 26797), (163, 26803), (164, 26812), (167, 26827), (172, 26872), (185, 26977), (191, 27013), (201, 27073), (203, 27082), (206, 27109), (212, 27151), (215, 27172),

Gene: Jiraiya\_29 Start: 25933, Stop: 27366, Start Num: 13

Candidate Starts for Jiraiya\_29:

(Start: 13 @25933 has 308 MA's), (23, 25990), (27, 26014), (32, 26038), (48, 26113), (75, 26356), (77, 26365), (79, 26386), (83, 26407), (85, 26416), (94, 26479), (105, 26572), (106, 26575), (112, 26629), (116, 26647), (136, 26779), (145, 26827), (150, 26869), (151, 26875), (152, 26878), (158, 26917), (161, 26935), (162, 26950), (163, 26956), (164, 26965), (167, 26980), (172, 27025), (185, 27130), (191, 27166), (201, 27226), (203, 27235), (206, 27262), (212, 27304), (215, 27325),

Gene: Jolie1\_024 Start: 25046, Stop: 26479, Start Num: 13

Candidate Starts for Jolie1\_024:

(Start: 13 @25046 has 308 MA's), (23, 25103), (26, 25121), (33, 25163), (59, 25289), (63, 25328), (68, 25388), (74, 25442), (76, 25475), (77, 25478), (85, 25529), (97, 25601), (107, 25697), (116, 25760), (117, 25763), (118, 25766), (121, 25784), (124, 25796), (128, 25832), (137, 25895), (139, 25901), (143, 25922), (150, 25982), (158, 26030), (162, 26063), (163, 26069), (168, 26099), (173, 26141), (186, 26249), (195, 26309), (202, 26345), (203, 26348), (211, 26414),

Gene: KLucky39\_29 Start: 26224, Stop: 27657, Start Num: 13

Candidate Starts for KLucky39\_29:

(Start: 13 @26224 has 308 MA's), (23, 26281), (27, 26305), (32, 26329), (48, 26404), (74, 26620), (75, 26647), (77, 26656), (79, 26677), (83, 26698), (85, 26707), (94, 26770), (105, 26863), (112, 26920), (116, 26938), (136, 27070), (145, 27118), (150, 27160), (151, 27166), (152, 27169), (158, 27208), (162, 27241), (163, 27247), (164, 27256), (167, 27271), (172, 27316), (185, 27421), (191, 27457), (201, 27517), (203, 27526), (212, 27595),

Gene: Kahve\_28 Start: 25940, Stop: 27373, Start Num: 13

Candidate Starts for Kahve\_28:

(Start: 13 @25940 has 308 MA's), (23, 25997), (27, 26021), (32, 26045), (48, 26120), (74, 26336), (75, 26363), (77, 26372), (79, 26393), (83, 26414), (85, 26423), (94, 26486), (105, 26579), (112, 26636), (116, 26654), (136, 26786), (145, 26834), (150, 26876), (151, 26882), (152, 26885), (158, 26924), (162, 26957), (163, 26963), (164, 26972), (167, 26987), (172, 27032), (185, 27137), (191, 27173), (201, 27233), (203, 27242), (212, 27311),

Gene: Kailash\_29 Start: 26278, Stop: 27711, Start Num: 13

Candidate Starts for Kailash\_29:

(Start: 13 @26278 has 308 MA's), (23, 26335), (27, 26359), (32, 26383), (48, 26458), (75, 26701), (77, 26710), (79, 26731), (83, 26752), (85, 26761), (94, 26824), (105, 26917), (112, 26974), (116, 26992), (136, 27124), (145, 27172), (150, 27214), (151, 27220), (152, 27223), (158, 27262), (161, 27280), (162, 27295), (163, 27301), (164, 27310), (167, 27325), (172, 27370), (185, 27475), (191, 27511), (201, 27571), (203, 27580), (206, 27607), (212, 27649), (215, 27670),

Gene: Kaleb\_30 Start: 27603, Stop: 29039, Start Num: 14

Candidate Starts for Kaleb\_30:

(Start: 14 @27603 has 83 MA's), (20, 27636), (23, 27660), (24, 27663), (27, 27684), (31, 27705), (39, 27738), (49, 27783), (62, 27855), (76, 28035), (77, 28038), (79, 28059), (84, 28083), (85, 28089), (87, 28107), (91, 28137), (92, 28140), (95, 28155), (97, 28161), (104, 28230), (108, 28284), (112, 28302), (116, 28320), (117, 28323), (122, 28347), (129, 28401), (134, 28440), (138, 28458), (142, 28479), (149, 28536), (150, 28542), (152, 28551), (161, 28608), (168, 28659), (170, 28668), (173, 28701), (175, 28710), (184, 28776), (187, 28818), (191, 28839), (194, 28851), (195, 28869), (203, 28908), (211, 28974), (212, 28977), (216, 29007),

Gene: Kamiyu\_29 Start: 26115, Stop: 27545, Start Num: 14

Candidate Starts for Kamiyu\_29:

(Start: 14 @26115 has 83 MA's), (23, 26172), (27, 26196), (28, 26205), (50, 26292), (67, 26442), (70, 26469), (77, 26544), (82, 26574), (85, 26595), (87, 26613), (97, 26667), (99, 26700), (101, 26718), (117, 26829), (129, 26907), (130, 26919), (133, 26940), (135, 26955), (139, 26967), (150, 27048), (151, 27054), (161, 27114), (166, 27156), (170, 27174), (173, 27207), (181, 27255), (186, 27315), (188, 27330), (191, 27345), (192, 27348), (202, 27411), (212, 27483), (216, 27513),

Gene: KarasumaRum\_30 Start: 26607, Stop: 28040, Start Num: 13

Candidate Starts for KarasumaRum\_30:

(Start: 13 @26607 has 308 MA's), (31, 26709), (61, 26859), (63, 26889), (65, 26907), (68, 26949), (77, 27039), (78, 27045), (83, 27081), (85, 27090), (96, 27159), (117, 27324), (139, 27462), (142, 27480), (150, 27543), (168, 27660), (169, 27666), (186, 27810), (194, 27852), (196, 27873), (216, 28008), (217, 28014),

Gene: Katniss\_29 Start: 26239, Stop: 27672, Start Num: 13

Candidate Starts for Katniss\_29:

(Start: 13 @26239 has 308 MA's), (23, 26296), (27, 26320), (32, 26344), (48, 26419), (74, 26635), (75, 26662), (77, 26671), (79, 26692), (83, 26713), (85, 26722), (94, 26785), (105, 26878), (112, 26935), (116, 26953), (136, 27085), (145, 27133), (150, 27175), (151, 27181), (152, 27184), (158, 27223), (162, 27256), (163, 27262), (164, 27271), (167, 27286), (172, 27331), (185, 27436), (191, 27472), (201, 27532), (203, 27541), (212, 27610),

Gene: KayaCho\_24 Start: 25048, Stop: 26481, Start Num: 13

Candidate Starts for KayaCho\_24:

(Start: 13 @25048 has 308 MA's), (23, 25105), (26, 25123), (33, 25165), (36, 25180), (63, 25330), (68, 25390), (74, 25444), (77, 25480), (78, 25486), (85, 25531), (97, 25603), (117, 25765), (118, 25768), (124, 25798), (128, 25834), (139, 25903), (143, 25924), (150, 25984), (156, 26023), (158, 26032), (162, 26065), (163, 26071), (168, 26101), (173, 26143), (186, 26251), (195, 26311), (202, 26347), (203, 26350), (211, 26416), (212, 26419),

Gene: Keitherie\_29 Start: 26271, Stop: 27704, Start Num: 13

Candidate Starts for Keitherie\_29:

(Start: 13 @26271 has 308 MA's), (23, 26328), (27, 26352), (32, 26376), (48, 26451), (74, 26667), (75, 26694), (77, 26703), (79, 26724), (83, 26745), (85, 26754), (94, 26817), (105, 26910), (116, 26985), (136, 27117), (145, 27165), (150, 27207), (151, 27213), (152, 27216), (158, 27255), (161, 27273), (162, 27288), (163, 27294), (164, 27303), (167, 27318), (172, 27363), (185, 27468), (191, 27504), (201, 27564), (203, 27573), (206, 27600), (212, 27642), (215, 27663),

Gene: Kheth\_30 Start: 27488, Stop: 28924, Start Num: 14

Candidate Starts for Kheth\_30:

(Start: 14 @27488 has 83 MA's), (20, 27521), (23, 27545), (24, 27548), (27, 27569), (31, 27590), (39, 27623), (49, 27668), (62, 27740), (76, 27920), (77, 27923), (79, 27944), (84, 27968), (85, 27974), (87, 27992), (91, 28022), (92, 28025), (95, 28040), (97, 28046), (104, 28115), (108, 28169), (112, 28187), (116, 28205), (117, 28208), (122, 28232), (129, 28286), (134, 28325), (138, 28343), (142, 28364),

(149, 28421), (150, 28427), (152, 28436), (161, 28493), (168, 28544), (170, 28553), (173, 28586), (175, 28595), (184, 28661), (187, 28703), (191, 28724), (194, 28736), (195, 28754), (203, 28793), (211, 28859), (212, 28862), (216, 28892),

Gene: Kikipoo\_29 Start: 26230, Stop: 27663, Start Num: 13

Candidate Starts for Kikipoo\_29:

(Start: 13 @26230 has 308 MA's), (23, 26287), (27, 26311), (32, 26335), (48, 26410), (74, 26626), (75, 26653), (77, 26662), (79, 26683), (83, 26704), (85, 26713), (94, 26776), (105, 26869), (112, 26926), (116, 26944), (136, 27076), (145, 27124), (150, 27166), (151, 27172), (152, 27175), (158, 27214), (162, 27247), (163, 27253), (164, 27262), (167, 27277), (172, 27322), (185, 27427), (191, 27463), (201, 27523), (203, 27532), (212, 27601),

Gene: Kimbrough\_29 Start: 25932, Stop: 27365, Start Num: 13

Candidate Starts for Kimbrough\_29:

(Start: 13 @25932 has 308 MA's), (23, 25989), (27, 26013), (32, 26037), (48, 26112), (74, 26328), (75, 26355), (77, 26364), (79, 26385), (83, 26406), (85, 26415), (94, 26478), (105, 26571), (112, 26628), (116, 26646), (136, 26778), (145, 26826), (150, 26868), (151, 26874), (152, 26877), (158, 26916), (162, 26949), (163, 26955), (164, 26964), (167, 26979), (172, 27024), (185, 27129), (191, 27165), (201, 27225), (203, 27234), (212, 27303),

Gene: KingTut\_20 Start: 21601, Stop: 23034, Start Num: 13

Candidate Starts for KingTut\_20:

(Start: 13 @21601 has 308 MA's), (23, 21658), (27, 21682), (32, 21706), (48, 21781), (74, 21997), (75, 22024), (77, 22033), (79, 22054), (83, 22075), (85, 22084), (94, 22147), (105, 22240), (112, 22297), (116, 22315), (136, 22447), (145, 22495), (150, 22537), (151, 22543), (152, 22546), (158, 22585), (162, 22618), (163, 22624), (164, 22633), (167, 22648), (172, 22693), (185, 22798), (191, 22834), (201, 22894), (203, 22903), (212, 22972),

Gene: KingVeVeVe\_29 Start: 26205, Stop: 27638, Start Num: 13

Candidate Starts for KingVeVeVe\_29:

(Start: 13 @26205 has 308 MA's), (23, 26262), (27, 26286), (32, 26310), (48, 26385), (74, 26601), (75, 26628), (77, 26637), (79, 26658), (83, 26679), (85, 26688), (94, 26751), (105, 26844), (112, 26901), (116, 26919), (136, 27051), (145, 27099), (150, 27141), (151, 27147), (152, 27150), (158, 27189), (162, 27222), (163, 27228), (164, 27237), (167, 27252), (172, 27297), (185, 27402), (191, 27438), (201, 27498), (203, 27507), (212, 27576),

Gene: KlimbOn\_29 Start: 26218, Stop: 27651, Start Num: 13

Candidate Starts for KlimbOn\_29:

(Start: 13 @26218 has 308 MA's), (23, 26275), (27, 26299), (32, 26323), (48, 26398), (74, 26614), (75, 26641), (77, 26650), (79, 26671), (83, 26692), (85, 26701), (94, 26764), (105, 26857), (112, 26914), (116, 26932), (136, 27064), (145, 27112), (150, 27154), (151, 27160), (152, 27163), (158, 27202), (162, 27235), (163, 27241), (164, 27250), (167, 27265), (172, 27310), (185, 27415), (191, 27451), (201, 27511), (203, 27520), (212, 27589),

Gene: Kloppinator\_29 Start: 26241, Stop: 27674, Start Num: 13

Candidate Starts for Kloppinator\_29:

(Start: 13 @26241 has 308 MA's), (23, 26298), (27, 26322), (32, 26346), (48, 26421), (74, 26637), (75, 26664), (77, 26673), (79, 26694), (83, 26715), (85, 26724), (94, 26787), (105, 26880), (112, 26937), (116, 26955), (136, 27087), (145, 27135), (150, 27177), (151, 27183), (152, 27186), (158, 27225), (162, 27258), (163, 27264), (164, 27273), (167, 27288), (172, 27333), (185, 27438), (191, 27474), (201, 27534), (203, 27543), (212, 27612),

Gene: Knocker\_30 Start: 28907, Stop: 30340, Start Num: 13

Candidate Starts for Knocker\_30:

(Start: 13 @28907 has 308 MA's), (23, 28964), (24, 28967), (35, 29036), (38, 29045), (44, 29072), (48, 29087), (58, 29138), (76, 29336), (77, 29339), (78, 29345), (79, 29360), (83, 29381), (85, 29390), (102, 29516), (105, 29546), (106, 29549), (111, 29600), (112, 29603), (128, 29693), (129, 29702), (130, 29714), (137, 29756), (140, 29765), (150, 29843), (157, 29888), (158, 29891), (163, 29930), (164, 29939), (168, 29960), (171, 29981), (172, 29999), (176, 30014), (179, 30038), (183, 30074), (185, 30104), (186, 30110), (190, 30137), (205, 30227), (212, 30278), (218, 30317),

Gene: Kronus\_28 Start: 26729, Stop: 28159, Start Num: 14

Candidate Starts for Kronus\_28:

(Start: 14 @26729 has 83 MA's), (23, 26786), (27, 26810), (28, 26819), (50, 26906), (67, 27056), (70, 27083), (77, 27158), (82, 27188), (85, 27209), (87, 27227), (97, 27281), (99, 27314), (117, 27443), (129, 27521), (130, 27533), (133, 27554), (135, 27569), (139, 27581), (150, 27662), (151, 27668), (161, 27728), (166, 27770), (170, 27788), (173, 27821), (181, 27869), (186, 27929), (188, 27944), (191, 27959), (192, 27962), (212, 28097), (216, 28127),

Gene: Kwadwo\_28 Start: 25922, Stop: 27355, Start Num: 13

Candidate Starts for Kwadwo\_28:

(Start: 13 @25922 has 308 MA's), (23, 25979), (27, 26003), (32, 26027), (48, 26102), (74, 26318), (75, 26345), (77, 26354), (79, 26375), (83, 26396), (85, 26405), (94, 26468), (105, 26561), (112, 26618), (116, 26636), (136, 26768), (145, 26816), (150, 26858), (151, 26864), (152, 26867), (158, 26906), (162, 26939), (163, 26945), (164, 26954), (167, 26969), (172, 27014), (185, 27119), (191, 27155), (201, 27215), (203, 27224), (212, 27293),

Gene: Kwksand96\_28 Start: 25790, Stop: 27223, Start Num: 13

Candidate Starts for Kwksand96\_28:

(Start: 13 @25790 has 308 MA's), (23, 25847), (27, 25871), (32, 25895), (48, 25970), (75, 26213), (77, 26222), (79, 26243), (83, 26264), (85, 26273), (94, 26336), (105, 26429), (106, 26432), (112, 26486), (116, 26504), (136, 26636), (145, 26684), (150, 26726), (151, 26732), (152, 26735), (158, 26774), (161, 26792), (162, 26807), (163, 26813), (164, 26822), (167, 26837), (172, 26882), (185, 26987), (191, 27023), (201, 27083), (203, 27092), (206, 27119), (212, 27161), (215, 27182),

Gene: Labeouficaum\_28 Start: 25786, Stop: 27219, Start Num: 13

Candidate Starts for Labeouficaum\_28:

(Start: 13 @25786 has 308 MA's), (23, 25843), (27, 25867), (32, 25891), (48, 25966), (75, 26209), (77, 26218), (79, 26239), (83, 26260), (85, 26269), (94, 26332), (105, 26425), (106, 26428), (112, 26482), (116, 26500), (136, 26632), (145, 26680), (150, 26722), (151, 26728), (152, 26731), (158, 26770), (161, 26788), (162, 26803), (163, 26809), (164, 26818), (167, 26833), (172, 26878), (185, 26983), (191, 27019), (201, 27079), (203, 27088), (206, 27115), (212, 27157), (215, 27178),

Gene: Lambano\_25 Start: 25445, Stop: 26878, Start Num: 13

Candidate Starts for Lambano\_25:

(Start: 13 @25445 has 308 MA's), (20, 25478), (23, 25502), (24, 25505), (28, 25535), (35, 25574), (36, 25577), (38, 25583), (48, 25625), (57, 25658), (62, 25700), (63, 25727), (74, 25841), (76, 25874), (77, 25877), (78, 25883), (83, 25919), (85, 25928), (92, 25979), (98, 26021), (107, 26096), (109, 26132), (115, 26150), (116, 26159), (117, 26162), (121, 26183), (129, 26240), (130, 26252), (137, 26294), (139, 26300), (150, 26381), (151, 26387), (154, 26411), (158, 26429), (162, 26462), (164, 26477), (166, 26489), (173, 26540), (176, 26552), (190, 26675), (191, 26678), (202, 26744), (205, 26765), (211, 26813), (217, 26852), (220, 26873),

Gene: Lars\_30 Start: 27593, Stop: 29029, Start Num: 14

Candidate Starts for Lars\_30:

(Start: 14 @27593 has 83 MA's), (20, 27626), (23, 27650), (24, 27653), (27, 27674), (31, 27695), (39, 27728), (49, 27773), (52, 27782), (62, 27845), (76, 28025), (77, 28028), (79, 28049), (84, 28073), (85, 28079), (87, 28097), (91, 28127), (92, 28130), (95, 28145), (97, 28151), (104, 28220), (108, 28274), (112, 28292), (116, 28310), (117, 28313), (122, 28337), (129, 28391), (134, 28430), (138, 28448), (142, 28469), (149, 28526), (150, 28532), (152, 28541), (161, 28598), (168, 28649), (170, 28658), (173, 28691), (175, 28700), (184, 28766), (187, 28808), (191, 28829), (194, 28841), (195, 28859), (203, 28898), (211, 28964), (212, 28967), (216, 28997),

Gene: LasagnaCat\_29 Start: 26224, Stop: 27657, Start Num: 13

Candidate Starts for LasagnaCat\_29:

(Start: 13 @26224 has 308 MA's), (23, 26281), (27, 26305), (32, 26329), (48, 26404), (75, 26647), (77, 26656), (79, 26677), (83, 26698), (85, 26707), (94, 26770), (105, 26863), (112, 26920), (116, 26938), (136, 27070), (145, 27118), (150, 27160), (151, 27166), (152, 27169), (158, 27208), (161, 27226), (162, 27241), (163, 27247), (164, 27256), (167, 27271), (172, 27316), (185, 27421), (191, 27457), (201, 27517), (203, 27526), (206, 27553), (212, 27595), (215, 27616),

Gene: Lasso\_29 Start: 26197, Stop: 27630, Start Num: 13

Candidate Starts for Lasso\_29:

(Start: 13 @26197 has 308 MA's), (23, 26254), (27, 26278), (32, 26302), (48, 26377), (74, 26593), (75, 26620), (77, 26629), (79, 26650), (83, 26671), (85, 26680), (94, 26743), (105, 26836), (112, 26893), (116, 26911), (136, 27043), (145, 27091), (150, 27133), (151, 27139), (152, 27142), (158, 27181), (162, 27214), (163, 27220), (164, 27229), (167, 27244), (172, 27289), (185, 27394), (191, 27430), (201, 27490), (203, 27499), (212, 27568),

Gene: Laurie\_30 Start: 27477, Stop: 28913, Start Num: 14

Candidate Starts for Laurie\_30:

(Start: 14 @27477 has 83 MA's), (20, 27510), (23, 27534), (24, 27537), (27, 27558), (31, 27579), (39, 27612), (49, 27657), (52, 27666), (62, 27729), (76, 27909), (77, 27912), (79, 27933), (84, 27957), (85, 27963), (87, 27981), (91, 28011), (92, 28014), (95, 28029), (97, 28035), (104, 28104), (108, 28158), (112, 28176), (116, 28194), (117, 28197), (122, 28221), (129, 28275), (134, 28314), (138, 28332), (142, 28353), (149, 28410), (150, 28416), (152, 28425), (161, 28482), (168, 28533), (170, 28542), (173, 28575), (175, 28584), (184, 28650), (187, 28692), (191, 28713), (194, 28725), (195, 28743), (202, 28779), (203, 28782), (211, 28848), (212, 28851), (216, 28881),

Gene: LeeLot\_29 Start: 26228, Stop: 27661, Start Num: 13

Candidate Starts for LeeLot\_29:

(Start: 13 @26228 has 308 MA's), (23, 26285), (27, 26309), (32, 26333), (48, 26408), (74, 26624), (75, 26651), (77, 26660), (79, 26681), (83, 26702), (85, 26711), (94, 26774), (105, 26867), (112, 26924), (116, 26942), (136, 27074), (145, 27122), (150, 27164), (151, 27170), (152, 27173), (158, 27212), (162, 27245), (163, 27251), (164, 27260), (167, 27275), (172, 27320), (185, 27425), (191, 27461), (201, 27521), (203, 27530), (212, 27599),

Gene: Lego3393\_29 Start: 26233, Stop: 27666, Start Num: 13

Candidate Starts for Lego3393\_29:

(Start: 13 @26233 has 308 MA's), (23, 26290), (27, 26314), (32, 26338), (48, 26413), (74, 26629), (75, 26656), (77, 26665), (79, 26686), (83, 26707), (85, 26716), (94, 26779), (105, 26872), (112, 26929), (116, 26947), (136, 27079), (145, 27127), (150, 27169), (151, 27175), (152, 27178), (158, 27217), (162, 27250), (163, 27256), (164, 27265), (167, 27280), (172, 27325), (185, 27430), (191, 27466), (201, 27526), (203, 27535), (212, 27604),

Gene: Legolas\_28 Start: 25938, Stop: 27371, Start Num: 13

Candidate Starts for Legolas\_28:



(Start: 13 @25938 has 308 MA's), (23, 25995), (27, 26019), (32, 26043), (48, 26118), (74, 26334), (75, 26361), (77, 26370), (79, 26391), (83, 26412), (85, 26421), (94, 26484), (105, 26577), (112, 26634), (116, 26652), (136, 26784), (145, 26832), (150, 26874), (151, 26880), (152, 26883), (158, 26922), (162, 26955), (163, 26961), (164, 26970), (167, 26985), (172, 27030), (185, 27135), (191, 27171), (201, 27231), (203, 27240), (212, 27309),

Gene: LeiMonet\_29 Start: 25929, Stop: 27362, Start Num: 13

Candidate Starts for LeiMonet\_29:

(Start: 13 @25929 has 308 MA's), (23, 25986), (27, 26010), (32, 26034), (48, 26109), (74, 26325), (75, 26352), (77, 26361), (79, 26382), (83, 26403), (85, 26412), (94, 26475), (105, 26568), (112, 26625), (116, 26643), (136, 26775), (145, 26823), (150, 26865), (151, 26871), (152, 26874), (158, 26913), (162, 26946), (163, 26952), (164, 26961), (167, 26976), (172, 27021), (185, 27126), (191, 27162), (201, 27222), (203, 27231), (212, 27300),

Gene: LemonSlice\_29 Start: 25925, Stop: 27358, Start Num: 13

Candidate Starts for LemonSlice\_29:

(Start: 13 @25925 has 308 MA's), (23, 25982), (27, 26006), (32, 26030), (48, 26105), (74, 26321), (75, 26348), (77, 26357), (79, 26378), (83, 26399), (85, 26408), (94, 26471), (105, 26564), (112, 26621), (116, 26639), (136, 26771), (145, 26819), (150, 26861), (151, 26867), (152, 26870), (158, 26909), (162, 26942), (163, 26948), (164, 26957), (167, 26972), (172, 27017), (185, 27122), (191, 27158), (201, 27218), (203, 27227), (212, 27296),

Gene: Lephleur\_30 Start: 27486, Stop: 28922, Start Num: 14

Candidate Starts for Lephleur\_30:

(Start: 14 @27486 has 83 MA's), (20, 27519), (23, 27543), (24, 27546), (27, 27567), (31, 27588), (39, 27621), (49, 27666), (52, 27675), (62, 27738), (76, 27918), (77, 27921), (79, 27942), (84, 27966), (85, 27972), (87, 27990), (91, 28020), (92, 28023), (95, 28038), (97, 28044), (104, 28113), (108, 28167), (112, 28185), (116, 28203), (117, 28206), (122, 28230), (129, 28284), (134, 28323), (138, 28341), (142, 28362), (149, 28419), (150, 28425), (152, 28434), (161, 28491), (168, 28542), (170, 28551), (173, 28584), (175, 28593), (184, 28659), (187, 28701), (191, 28722), (194, 28734), (195, 28752), (203, 28791), (211, 28857), (212, 28860), (216, 28890),

Gene: LestyG\_29 Start: 26150, Stop: 27580, Start Num: 14

Candidate Starts for LestyG\_29:

(Start: 14 @26150 has 83 MA's), (23, 26207), (27, 26231), (28, 26240), (50, 26327), (67, 26477), (70, 26504), (77, 26579), (82, 26609), (85, 26630), (87, 26648), (97, 26702), (99, 26735), (117, 26864), (129, 26942), (130, 26954), (133, 26975), (135, 26990), (139, 27002), (150, 27083), (151, 27089), (159, 27137), (161, 27149), (166, 27191), (170, 27209), (173, 27242), (181, 27290), (186, 27350), (188, 27365), (191, 27380), (192, 27383), (202, 27446), (212, 27518), (216, 27548),

Gene: Ligma\_25 Start: 23515, Stop: 25044, Start Num: 3

Candidate Starts for Ligma\_25:

(1, 22570), (2, 22669), (Start: 3 @23515 has 17 MA's), (7, 23548), (17, 23617), (21, 23635), (41, 23758), (46, 23779), (52, 23800), (77, 24043), (83, 24085), (85, 24094), (91, 24142), (115, 24316), (117, 24328), (128, 24397), (130, 24418), (149, 24541), (150, 24547), (153, 24574), (158, 24595), (162, 24628), (163, 24634), (164, 24643), (174, 24712), (179, 24742), (182, 24766), (186, 24814),

Gene: LilMcDreamy\_25 Start: 26621, Stop: 28051, Start Num: 13

Candidate Starts for LilMcDreamy\_25:

(Start: 13 @26621 has 308 MA's), (27, 26702), (31, 26723), (54, 26819), (61, 26870), (63, 26900), (73, 27008), (76, 27047), (83, 27092), (85, 27101), (92, 27152), (95, 27167), (98, 27194), (103, 27239), (105, 27257), (112, 27314), (115, 27323), (117, 27335), (130, 27425), (144, 27503), (150, 27554), (151, 27560), (153, 27581), (168, 27671), (174, 27719), (186, 27821), (190, 27848), (191, 27851),

(198, 27896), (212, 27989), (217, 28025),

Gene: LittleMunchkin\_27 Start: 26568, Stop: 28097, Start Num: 3

Candidate Starts for LittleMunchkin\_27:

(Start: 3 @26568 has 17 MA's), (7, 26601), (21, 26688), (65, 26964), (70, 27021), (75, 27087), (77, 27096), (80, 27120), (83, 27138), (85, 27147), (86, 27150), (87, 27165), (91, 27195), (115, 27369), (116, 27378), (117, 27381), (121, 27402), (128, 27450), (130, 27471), (131, 27474), (149, 27594), (150, 27600), (151, 27606), (155, 27636), (162, 27681), (164, 27696), (179, 27795), (182, 27819), (206, 27993), (211, 28032),

Gene: LizLemon\_30 Start: 27602, Stop: 29038, Start Num: 14

Candidate Starts for LizLemon\_30:

(Start: 14 @27602 has 83 MA's), (20, 27635), (23, 27659), (24, 27662), (27, 27683), (31, 27704), (39, 27737), (49, 27782), (52, 27791), (62, 27854), (76, 28034), (77, 28037), (79, 28058), (84, 28082), (85, 28088), (87, 28106), (91, 28136), (92, 28139), (95, 28154), (97, 28160), (104, 28229), (108, 28283), (112, 28301), (116, 28319), (117, 28322), (122, 28346), (129, 28400), (134, 28439), (138, 28457), (142, 28478), (149, 28535), (150, 28541), (152, 28550), (161, 28607), (168, 28658), (170, 28667), (173, 28700), (175, 28709), (184, 28775), (187, 28817), (191, 28838), (194, 28850), (195, 28868), (203, 28907), (211, 28973), (212, 28976), (216, 29006),

Gene: Lolalove\_26 Start: 26471, Stop: 27904, Start Num: 13

Candidate Starts for Lolalove\_26:

(Start: 13 @26471 has 308 MA's), (20, 26504), (23, 26528), (24, 26531), (28, 26561), (36, 26603), (38, 26609), (48, 26651), (57, 26684), (62, 26726), (71, 26843), (74, 26867), (77, 26903), (78, 26909), (83, 26945), (85, 26954), (92, 27005), (98, 27047), (109, 27158), (115, 27176), (116, 27185), (121, 27209), (129, 27266), (130, 27278), (137, 27320), (139, 27326), (150, 27407), (151, 27413), (154, 27437), (158, 27455), (162, 27488), (164, 27503), (166, 27515), (173, 27566), (176, 27578), (190, 27701), (191, 27704), (202, 27770), (205, 27791), (211, 27839), (217, 27878), (220, 27899),

Gene: Longacauda\_28 Start: 25930, Stop: 27363, Start Num: 13

Candidate Starts for Longacauda\_28:

(Start: 13 @25930 has 308 MA's), (23, 25987), (27, 26011), (32, 26035), (48, 26110), (75, 26353), (77, 26362), (79, 26383), (83, 26404), (85, 26413), (94, 26476), (105, 26569), (106, 26572), (112, 26626), (116, 26644), (136, 26776), (145, 26824), (150, 26866), (151, 26872), (152, 26875), (158, 26914), (161, 26932), (162, 26947), (163, 26953), (164, 26962), (167, 26977), (172, 27022), (185, 27127), (191, 27163), (201, 27223), (203, 27232), (206, 27259), (212, 27301), (215, 27322),

Gene: Lopsy\_28 Start: 25780, Stop: 27213, Start Num: 13

Candidate Starts for Lopsy\_28:

(Start: 13 @25780 has 308 MA's), (23, 25837), (27, 25861), (32, 25885), (48, 25960), (74, 26176), (75, 26203), (77, 26212), (79, 26233), (83, 26254), (85, 26263), (94, 26326), (105, 26419), (112, 26476), (116, 26494), (136, 26626), (145, 26674), (150, 26716), (151, 26722), (152, 26725), (158, 26764), (162, 26797), (163, 26803), (164, 26812), (167, 26827), (172, 26872), (185, 26977), (191, 27013), (201, 27073), (203, 27082), (212, 27151),

Gene: LostAndPhound\_28 Start: 25931, Stop: 27364, Start Num: 13

Candidate Starts for LostAndPhound\_28:

(Start: 13 @25931 has 308 MA's), (23, 25988), (27, 26012), (32, 26036), (48, 26111), (74, 26327), (75, 26354), (77, 26363), (79, 26384), (83, 26405), (85, 26414), (94, 26477), (105, 26570), (112, 26627), (116, 26645), (136, 26777), (145, 26825), (150, 26867), (151, 26873), (152, 26876), (158, 26915), (162, 26948), (163, 26954), (164, 26963), (167, 26978), (172, 27023), (185, 27128), (191, 27164), (201, 27224), (203, 27233), (212, 27302),

Gene: LuckyMarjie\_28 Start: 25940, Stop: 27373, Start Num: 13

Candidate Starts for LuckyMarjie\_28:

(Start: 13 @25940 has 308 MA's), (23, 25997), (27, 26021), (32, 26045), (48, 26120), (74, 26336), (75, 26363), (77, 26372), (79, 26393), (83, 26414), (85, 26423), (94, 26486), (105, 26579), (112, 26636), (116, 26654), (136, 26786), (145, 26834), (150, 26876), (151, 26882), (152, 26885), (158, 26924), (162, 26957), (163, 26963), (164, 26972), (167, 26987), (172, 27032), (185, 27137), (191, 27173), (201, 27233), (203, 27242), (212, 27311),

Gene: Lulumae\_28 Start: 25922, Stop: 27355, Start Num: 13

Candidate Starts for Lulumae\_28:

(Start: 13 @25922 has 308 MA's), (23, 25979), (27, 26003), (32, 26027), (48, 26102), (74, 26318), (75, 26345), (77, 26354), (79, 26375), (83, 26396), (85, 26405), (94, 26468), (105, 26561), (112, 26618), (116, 26636), (136, 26768), (145, 26816), (150, 26858), (151, 26864), (152, 26867), (158, 26906), (162, 26939), (163, 26945), (164, 26954), (167, 26969), (172, 27014), (185, 27119), (191, 27155), (201, 27215), (203, 27224), (212, 27293),

Gene: Lulwa\_29 Start: 26209, Stop: 27642, Start Num: 13

Candidate Starts for Lulwa\_29:

(Start: 13 @26209 has 308 MA's), (23, 26266), (27, 26290), (32, 26314), (48, 26389), (74, 26605), (75, 26632), (77, 26641), (79, 26662), (83, 26683), (85, 26692), (94, 26755), (105, 26848), (112, 26905), (116, 26923), (136, 27055), (145, 27103), (150, 27145), (151, 27151), (152, 27154), (158, 27193), (162, 27226), (163, 27232), (164, 27241), (167, 27256), (172, 27301), (185, 27406), (191, 27442), (201, 27502), (203, 27511), (212, 27580),

Gene: Lumine\_28 Start: 25918, Stop: 27351, Start Num: 13

Candidate Starts for Lumine\_28:

(Start: 13 @25918 has 308 MA's), (23, 25975), (27, 25999), (32, 26023), (48, 26098), (74, 26314), (75, 26341), (77, 26350), (79, 26371), (83, 26392), (85, 26401), (94, 26464), (105, 26557), (112, 26614), (116, 26632), (136, 26764), (145, 26812), (150, 26854), (151, 26860), (152, 26863), (158, 26902), (162, 26935), (163, 26941), (164, 26950), (167, 26965), (172, 27010), (185, 27115), (191, 27151), (201, 27211), (203, 27220), (212, 27289),

Gene: MRabcd\_28 Start: 25922, Stop: 27355, Start Num: 13

Candidate Starts for MRabcd\_28:

(Start: 13 @25922 has 308 MA's), (23, 25979), (27, 26003), (32, 26027), (48, 26102), (74, 26318), (75, 26345), (77, 26354), (79, 26375), (83, 26396), (85, 26405), (94, 26468), (105, 26561), (112, 26618), (116, 26636), (136, 26768), (145, 26816), (150, 26858), (151, 26864), (152, 26867), (158, 26906), (162, 26939), (163, 26945), (164, 26954), (167, 26969), (172, 27014), (185, 27119), (191, 27155), (201, 27215), (203, 27224), (212, 27293),

Gene: Mag7\_28 Start: 25828, Stop: 27261, Start Num: 13

Candidate Starts for Mag7\_28:

(Start: 13 @25828 has 308 MA's), (23, 25885), (27, 25909), (32, 25933), (48, 26008), (75, 26251), (77, 26260), (79, 26281), (83, 26302), (85, 26311), (94, 26374), (105, 26467), (112, 26524), (116, 26542), (136, 26674), (145, 26722), (150, 26764), (151, 26770), (152, 26773), (158, 26812), (161, 26830), (162, 26845), (163, 26851), (164, 26860), (167, 26875), (172, 26920), (185, 27025), (191, 27061), (201, 27121), (203, 27130), (206, 27157), (212, 27199), (215, 27220),

Gene: Magic8\_29 Start: 26263, Stop: 27696, Start Num: 13

Candidate Starts for Magic8\_29:

(Start: 13 @26263 has 308 MA's), (23, 26320), (27, 26344), (32, 26368), (48, 26443), (75, 26686), (77, 26695), (79, 26716), (83, 26737), (85, 26746), (94, 26809), (105, 26902), (112, 26959), (116, 26977), (136, 27109), (145, 27157), (150, 27199), (151, 27205), (152, 27208), (158, 27247), (161, 27265),

(162, 27280), (163, 27286), (164, 27295), (167, 27310), (172, 27355), (185, 27460), (191, 27496), (201, 27556), (203, 27565), (206, 27592), (212, 27634), (215, 27655),

Gene: Magpie\_25 Start: 26300, Stop: 27733, Start Num: 13

Candidate Starts for Magpie\_25:

(Start: 13 @26300 has 308 MA's), (20, 26333), (23, 26357), (24, 26360), (28, 26390), (36, 26432), (38, 26438), (48, 26480), (57, 26513), (62, 26555), (74, 26696), (77, 26732), (78, 26738), (83, 26774), (85, 26783), (92, 26834), (98, 26876), (109, 26987), (115, 27005), (116, 27014), (121, 27038), (129, 27095), (130, 27107), (137, 27149), (139, 27155), (150, 27236), (151, 27242), (154, 27266), (158, 27284), (162, 27317), (164, 27332), (166, 27344), (173, 27395), (176, 27407), (190, 27530), (191, 27533), (202, 27599), (205, 27620), (211, 27668), (217, 27707), (220, 27728),

Gene: MakoManhole\_27 Start: 25502, Stop: 27028, Start Num: 3

Candidate Starts for MakoManhole\_27:

(Start: 3 @25502 has 17 MA's), (7, 25535), (10, 25559), (11, 25562), (17, 25604), (18, 25607), (70, 25952), (75, 26018), (82, 26057), (92, 26129), (93, 26132), (105, 26234), (112, 26291), (118, 26315), (128, 26381), (129, 26390), (130, 26402), (131, 26405), (137, 26444), (141, 26465), (150, 26531), (151, 26537), (157, 26576), (158, 26579), (162, 26612), (166, 26639), (168, 26648), (170, 26657), (176, 26702), (181, 26738), (182, 26750), (186, 26798), (201, 26888), (211, 26963), (216, 26996),

Gene: Mana\_28 Start: 25937, Stop: 27370, Start Num: 13

Candidate Starts for Mana\_28:

(Start: 13 @25937 has 308 MA's), (23, 25994), (27, 26018), (32, 26042), (48, 26117), (74, 26333), (75, 26360), (77, 26369), (79, 26390), (83, 26411), (85, 26420), (94, 26483), (105, 26576), (112, 26633), (116, 26651), (136, 26783), (145, 26831), (150, 26873), (151, 26879), (152, 26882), (158, 26921), (162, 26954), (163, 26960), (164, 26969), (167, 26984), (172, 27029), (185, 27134), (191, 27170), (201, 27230), (203, 27239), (212, 27308),

Gene: Manad\_28 Start: 25776, Stop: 27209, Start Num: 13

Candidate Starts for Manad\_28:

(Start: 13 @25776 has 308 MA's), (23, 25833), (27, 25857), (32, 25881), (48, 25956), (74, 26172), (75, 26199), (77, 26208), (79, 26229), (83, 26250), (85, 26259), (94, 26322), (105, 26415), (112, 26472), (116, 26490), (136, 26622), (145, 26670), (150, 26712), (151, 26718), (152, 26721), (158, 26760), (162, 26793), (163, 26799), (164, 26808), (167, 26823), (172, 26868), (185, 26973), (191, 27009), (201, 27069), (203, 27078), (212, 27147),

Gene: Mao1\_24 Start: 23526, Stop: 24953, Start Num: 14

Candidate Starts for Mao1\_24:

(Start: 14 @23526 has 83 MA's), (20, 23559), (27, 23607), (30, 23622), (31, 23628), (40, 23670), (52, 23712), (57, 23733), (62, 23775), (75, 23943), (76, 23949), (85, 24003), (92, 24054), (95, 24069), (97, 24075), (100, 24117), (108, 24198), (112, 24216), (128, 24306), (130, 24327), (135, 24363), (137, 24369), (144, 24405), (150, 24456), (152, 24465), (153, 24483), (161, 24522), (168, 24573), (170, 24582), (173, 24615), (184, 24690), (191, 24753), (194, 24765), (212, 24891), (216, 24921),

Gene: Mariokart\_25 Start: 23433, Stop: 24962, Start Num: 4

Candidate Starts for Mariokart\_25:

(Start: 4 @23433 has 2 MA's), (7, 23466), (17, 23535), (46, 23697), (77, 23961), (80, 23985), (83, 24003), (85, 24012), (97, 24084), (101, 24135), (112, 24225), (115, 24234), (117, 24246), (128, 24315), (130, 24336), (135, 24372), (149, 24459), (150, 24465), (151, 24471), (158, 24513), (162, 24546), (163, 24552), (164, 24561), (173, 24624), (186, 24732), (191, 24762), (211, 24897),

Gene: Marley1013\_29 Start: 26928, Stop: 28358, Start Num: 14

Candidate Starts for Marley1013\_29:

(Start: 14 @26928 has 83 MA's), (23, 26985), (27, 27009), (28, 27018), (50, 27105), (70, 27282), (75, 27348), (77, 27357), (82, 27387), (85, 27408), (87, 27426), (97, 27480), (117, 27642), (129, 27720), (130, 27732), (133, 27753), (135, 27768), (139, 27780), (150, 27861), (151, 27867), (159, 27915), (161, 27927), (166, 27969), (170, 27987), (173, 28020), (181, 28068), (186, 28128), (188, 28143), (191, 28158), (192, 28161), (202, 28224), (212, 28296), (216, 28326),

Gene: Maru\_28 Start: 25930, Stop: 27363, Start Num: 13

Candidate Starts for Maru\_28:

(Start: 13 @25930 has 308 MA's), (23, 25987), (27, 26011), (32, 26035), (48, 26110), (74, 26326), (75, 26353), (77, 26362), (79, 26383), (83, 26404), (85, 26413), (94, 26476), (105, 26569), (112, 26626), (116, 26644), (136, 26776), (145, 26824), (150, 26866), (151, 26872), (152, 26875), (158, 26914), (162, 26947), (163, 26953), (164, 26962), (167, 26977), (172, 27022), (185, 27127), (191, 27163), (201, 27223), (203, 27232), (212, 27301),

Gene: Mask\_25 Start: 23519, Stop: 24946, Start Num: 14

Candidate Starts for Mask\_25:

(Start: 14 @23519 has 83 MA's), (20, 23552), (27, 23600), (30, 23615), (31, 23621), (40, 23663), (52, 23705), (57, 23726), (62, 23768), (75, 23936), (76, 23942), (85, 23996), (92, 24047), (95, 24062), (97, 24068), (100, 24110), (108, 24191), (112, 24209), (128, 24299), (130, 24320), (135, 24356), (137, 24362), (144, 24398), (150, 24449), (152, 24458), (153, 24476), (161, 24515), (168, 24566), (170, 24575), (173, 24608), (184, 24683), (191, 24746), (194, 24758), (212, 24884), (216, 24914),

Gene: Maskar\_28 Start: 25776, Stop: 27209, Start Num: 13

Candidate Starts for Maskar\_28:

(Start: 13 @25776 has 308 MA's), (23, 25833), (27, 25857), (32, 25881), (48, 25956), (75, 26199), (77, 26208), (79, 26229), (83, 26250), (85, 26259), (94, 26322), (105, 26415), (106, 26418), (112, 26472), (116, 26490), (136, 26622), (145, 26670), (150, 26712), (151, 26718), (152, 26721), (158, 26760), (161, 26778), (162, 26793), (163, 26799), (164, 26808), (167, 26823), (172, 26868), (185, 26973), (191, 27009), (201, 27069), (203, 27078), (206, 27105), (212, 27147), (215, 27168),

Gene: MasterPo\_30 Start: 27489, Stop: 28925, Start Num: 14

Candidate Starts for MasterPo\_30:

(Start: 14 @27489 has 83 MA's), (20, 27522), (23, 27546), (24, 27549), (27, 27570), (31, 27591), (39, 27624), (49, 27669), (52, 27678), (62, 27741), (76, 27921), (77, 27924), (79, 27945), (84, 27969), (85, 27975), (87, 27993), (91, 28023), (92, 28026), (95, 28041), (97, 28047), (104, 28116), (108, 28170), (112, 28188), (116, 28206), (117, 28209), (122, 28233), (129, 28287), (134, 28326), (138, 28344), (142, 28365), (149, 28422), (150, 28428), (152, 28437), (161, 28494), (168, 28545), (170, 28554), (173, 28587), (175, 28596), (184, 28662), (187, 28704), (191, 28725), (194, 28737), (195, 28755), (203, 28794), (211, 28860), (212, 28863), (216, 28893),

Gene: Matalotodo\_29 Start: 26223, Stop: 27656, Start Num: 13

Candidate Starts for Matalotodo\_29:

(Start: 13 @26223 has 308 MA's), (23, 26280), (27, 26304), (32, 26328), (48, 26403), (74, 26619), (75, 26646), (77, 26655), (79, 26676), (83, 26697), (85, 26706), (94, 26769), (105, 26862), (112, 26919), (116, 26937), (136, 27069), (145, 27117), (150, 27159), (151, 27165), (152, 27168), (158, 27207), (162, 27240), (163, 27246), (164, 27255), (167, 27270), (172, 27315), (185, 27420), (191, 27456), (201, 27516), (203, 27525), (212, 27594),

Gene: Mcshane\_28 Start: 25920, Stop: 27353, Start Num: 13

Candidate Starts for Mcshane\_28:

(Start: 13 @25920 has 308 MA's), (23, 25977), (27, 26001), (32, 26025), (48, 26100), (74, 26316), (75, 26343), (77, 26352), (79, 26373), (83, 26394), (85, 26403), (94, 26466), (105, 26559), (112, 26616), (116, 26634), (136, 26766), (145, 26814), (150, 26856), (151, 26862), (152, 26865), (158, 26904),

(162, 26937), (163, 26943), (164, 26952), (167, 26967), (172, 27012), (185, 27117), (191, 27153),  
(201, 27213), (203, 27222), (212, 27291),

Gene: Mecca\_28 Start: 25923, Stop: 27356, Start Num: 13

Candidate Starts for Mecca\_28:

(Start: 13 @25923 has 308 MA's), (23, 25980), (27, 26004), (32, 26028), (48, 26103), (74, 26319), (75, 26346), (77, 26355), (79, 26376), (83, 26397), (85, 26406), (94, 26469), (105, 26562), (112, 26619), (116, 26637), (136, 26769), (145, 26817), (150, 26859), (151, 26865), (152, 26868), (158, 26907), (162, 26940), (163, 26946), (164, 26955), (167, 26970), (185, 27120), (191, 27156), (201, 27216), (203, 27225), (212, 27294),

Gene: Megabear\_22 Start: 24689, Stop: 26125, Start Num: 15

Candidate Starts for Megabear\_22:

(Start: 15 @24689 has 8 MA's), (19, 24710), (20, 24719), (49, 24866), (52, 24875), (64, 24977), (66, 24995), (70, 25046), (72, 25076), (75, 25112), (77, 25121), (80, 25145), (82, 25151), (92, 25223), (112, 25385), (114, 25391), (116, 25403), (117, 25406), (129, 25484), (130, 25496), (135, 25532), (140, 25547), (142, 25565), (150, 25628), (151, 25634), (153, 25655), (157, 25673), (158, 25676), (161, 25694), (165, 25727), (166, 25736), (168, 25745), (170, 25754), (173, 25787), (182, 25847), (184, 25862), (186, 25895), (191, 25925), (200, 25979), (211, 26060), (212, 26063), (216, 26093),

Gene: Megamind20\_29 Start: 25945, Stop: 27378, Start Num: 13

Candidate Starts for Megamind20\_29:

(Start: 13 @25945 has 308 MA's), (23, 26002), (27, 26026), (32, 26050), (48, 26125), (74, 26341), (75, 26368), (77, 26377), (79, 26398), (83, 26419), (85, 26428), (94, 26491), (105, 26584), (112, 26641), (116, 26659), (136, 26791), (145, 26839), (150, 26881), (151, 26887), (152, 26890), (158, 26929), (162, 26962), (163, 26968), (164, 26977), (167, 26992), (172, 27037), (185, 27142), (191, 27178), (201, 27238), (203, 27247), (212, 27316),

Gene: Megatron\_29 Start: 26221, Stop: 27654, Start Num: 13

Candidate Starts for Megatron\_29:

(Start: 13 @26221 has 308 MA's), (23, 26278), (27, 26302), (32, 26326), (48, 26401), (74, 26617), (75, 26644), (77, 26653), (79, 26674), (83, 26695), (85, 26704), (94, 26767), (105, 26860), (112, 26917), (116, 26935), (136, 27067), (145, 27115), (150, 27157), (151, 27163), (152, 27166), (158, 27205), (162, 27238), (163, 27244), (164, 27253), (167, 27268), (172, 27313), (185, 27418), (191, 27454), (201, 27514), (203, 27523), (212, 27592),

Gene: Melc17\_29 Start: 26218, Stop: 27651, Start Num: 13

Candidate Starts for Melc17\_29:

(Start: 13 @26218 has 308 MA's), (23, 26275), (27, 26299), (32, 26323), (48, 26398), (75, 26641), (77, 26650), (79, 26671), (83, 26692), (85, 26701), (94, 26764), (105, 26857), (112, 26914), (116, 26932), (145, 27112), (150, 27154), (151, 27160), (152, 27163), (158, 27202), (161, 27220), (162, 27235), (163, 27241), (164, 27250), (167, 27265), (172, 27310), (185, 27415), (191, 27451), (201, 27511), (203, 27520), (206, 27547), (212, 27589), (215, 27610),

Gene: MelsMeow\_28 Start: 25822, Stop: 27255, Start Num: 13

Candidate Starts for MelsMeow\_28:

(Start: 13 @25822 has 308 MA's), (23, 25879), (27, 25903), (32, 25927), (48, 26002), (75, 26245), (77, 26254), (79, 26275), (83, 26296), (85, 26305), (94, 26368), (105, 26461), (112, 26518), (116, 26536), (145, 26716), (150, 26758), (151, 26764), (152, 26767), (158, 26806), (161, 26824), (162, 26839), (163, 26845), (164, 26854), (167, 26869), (172, 26914), (185, 27019), (191, 27055), (201, 27115), (203, 27124), (206, 27151), (212, 27193), (215, 27214),

Gene: Mesh1\_29 Start: 26235, Stop: 27668, Start Num: 13

Candidate Starts for Mesh1\_29:

(Start: 13 @26235 has 308 MA's), (23, 26292), (27, 26316), (32, 26340), (48, 26415), (74, 26631), (75, 26658), (77, 26667), (79, 26688), (83, 26709), (85, 26718), (94, 26781), (105, 26874), (112, 26931), (116, 26949), (136, 27081), (145, 27129), (150, 27171), (151, 27177), (152, 27180), (158, 27219), (162, 27252), (163, 27258), (164, 27267), (167, 27282), (172, 27327), (185, 27432), (191, 27468), (201, 27528), (203, 27537), (212, 27606),

Gene: MichaelPhcott\_28 Start: 25825, Stop: 27258, Start Num: 13

Candidate Starts for MichaelPhcott\_28:

(Start: 13 @25825 has 308 MA's), (23, 25882), (27, 25906), (32, 25930), (48, 26005), (75, 26248), (77, 26257), (79, 26278), (83, 26299), (85, 26308), (94, 26371), (105, 26464), (112, 26521), (116, 26539), (136, 26671), (145, 26719), (150, 26761), (151, 26767), (152, 26770), (158, 26809), (161, 26827), (162, 26842), (163, 26848), (164, 26857), (167, 26872), (172, 26917), (185, 27022), (191, 27058), (201, 27118), (203, 27127), (206, 27154), (212, 27196), (215, 27217),

Gene: Mikota\_29 Start: 26208, Stop: 27641, Start Num: 13

Candidate Starts for Mikota\_29:

(Start: 13 @26208 has 308 MA's), (23, 26265), (27, 26289), (32, 26313), (48, 26388), (74, 26604), (75, 26631), (77, 26640), (79, 26661), (83, 26682), (85, 26691), (94, 26754), (105, 26847), (112, 26904), (116, 26922), (136, 27054), (145, 27102), (150, 27144), (151, 27150), (152, 27153), (158, 27192), (161, 27210), (162, 27225), (163, 27231), (164, 27240), (167, 27255), (172, 27300), (185, 27405), (191, 27441), (201, 27501), (203, 27510), (212, 27579),

Gene: MiniBoss\_29 Start: 26214, Stop: 27647, Start Num: 13

Candidate Starts for MiniBoss\_29:

(Start: 13 @26214 has 308 MA's), (23, 26271), (27, 26295), (32, 26319), (48, 26394), (74, 26610), (75, 26637), (77, 26646), (79, 26667), (83, 26688), (85, 26697), (94, 26760), (105, 26853), (116, 26928), (136, 27060), (145, 27108), (150, 27150), (151, 27156), (152, 27159), (158, 27198), (162, 27231), (163, 27237), (164, 27246), (167, 27261), (172, 27306), (185, 27411), (191, 27447), (201, 27507), (203, 27516), (212, 27585),

Gene: MitKao\_29 Start: 25929, Stop: 27362, Start Num: 13

Candidate Starts for MitKao\_29:

(Start: 13 @25929 has 308 MA's), (23, 25986), (27, 26010), (32, 26034), (48, 26109), (74, 26325), (75, 26352), (77, 26361), (79, 26382), (83, 26403), (85, 26412), (94, 26475), (105, 26568), (112, 26625), (116, 26643), (136, 26775), (145, 26823), (150, 26865), (151, 26871), (152, 26874), (158, 26913), (162, 26946), (163, 26952), (164, 26961), (167, 26976), (172, 27021), (185, 27126), (191, 27162), (201, 27222), (203, 27231), (212, 27300),

Gene: Mithril\_26 Start: 26475, Stop: 27908, Start Num: 13

Candidate Starts for Mithril\_26:

(Start: 13 @26475 has 308 MA's), (20, 26508), (23, 26532), (24, 26535), (28, 26565), (36, 26607), (38, 26613), (48, 26655), (57, 26688), (62, 26730), (71, 26847), (74, 26871), (77, 26907), (78, 26913), (83, 26949), (85, 26958), (92, 27009), (98, 27051), (109, 27162), (115, 27180), (116, 27189), (117, 27192), (121, 27213), (129, 27270), (130, 27282), (137, 27324), (139, 27330), (150, 27411), (151, 27417), (154, 27441), (158, 27459), (162, 27492), (164, 27507), (166, 27519), (173, 27570), (174, 27576), (176, 27582), (187, 27687), (190, 27705), (191, 27708), (202, 27774), (205, 27795), (211, 27843), (217, 27882), (220, 27903),

Gene: MmasiCarm\_29 Start: 26132, Stop: 27562, Start Num: 14

Candidate Starts for MmasiCarm\_29:

(Start: 14 @26132 has 83 MA's), (23, 26189), (27, 26213), (28, 26222), (50, 26309), (67, 26459), (70, 26486), (75, 26552), (77, 26561), (82, 26591), (85, 26612), (87, 26630), (97, 26684), (99, 26717),

(117, 26846), (129, 26924), (130, 26936), (133, 26957), (135, 26972), (139, 26984), (150, 27065), (151, 27071), (159, 27119), (161, 27131), (166, 27173), (170, 27191), (173, 27224), (181, 27272), (186, 27332), (188, 27347), (191, 27362), (192, 27365), (212, 27500), (216, 27530),

Gene: Morgushi\_29 Start: 25930, Stop: 27363, Start Num: 13

Candidate Starts for Morgushi\_29:

(Start: 13 @25930 has 308 MA's), (23, 25987), (27, 26011), (32, 26035), (48, 26110), (74, 26326), (75, 26353), (77, 26362), (79, 26383), (83, 26404), (85, 26413), (94, 26476), (105, 26569), (112, 26626), (116, 26644), (136, 26776), (145, 26824), (150, 26866), (151, 26872), (152, 26875), (158, 26914), (162, 26947), (163, 26953), (164, 26962), (167, 26977), (172, 27022), (185, 27127), (191, 27163), (201, 27223), (203, 27232), (212, 27301),

Gene: Mortcellus\_28 Start: 26784, Stop: 28214, Start Num: 14

Candidate Starts for Mortcellus\_28:

(Start: 14 @26784 has 83 MA's), (23, 26841), (27, 26865), (28, 26874), (50, 26961), (67, 27111), (70, 27138), (77, 27213), (82, 27243), (85, 27264), (87, 27282), (97, 27336), (99, 27369), (117, 27498), (129, 27576), (130, 27588), (133, 27609), (135, 27624), (139, 27636), (150, 27717), (151, 27723), (161, 27783), (166, 27825), (170, 27843), (173, 27876), (181, 27924), (186, 27984), (188, 27999), (191, 28014), (192, 28017), (202, 28080), (212, 28152), (216, 28182),

Gene: Morty\_29 Start: 26230, Stop: 27663, Start Num: 13

Candidate Starts for Morty\_29:

(Start: 13 @26230 has 308 MA's), (23, 26287), (27, 26311), (32, 26335), (48, 26410), (74, 26626), (75, 26653), (77, 26662), (79, 26683), (83, 26704), (85, 26713), (94, 26776), (105, 26869), (112, 26926), (116, 26944), (136, 27076), (145, 27124), (150, 27166), (151, 27172), (152, 27175), (158, 27214), (162, 27247), (163, 27253), (164, 27262), (167, 27277), (172, 27322), (185, 27427), (191, 27463), (201, 27523), (203, 27532), (212, 27601),

Gene: Morty007\_29 Start: 26928, Stop: 28358, Start Num: 14

Candidate Starts for Morty007\_29:

(Start: 14 @26928 has 83 MA's), (23, 26985), (27, 27009), (28, 27018), (50, 27105), (70, 27282), (75, 27348), (77, 27357), (82, 27387), (85, 27408), (87, 27426), (97, 27480), (117, 27642), (129, 27720), (130, 27732), (133, 27753), (135, 27768), (139, 27780), (150, 27861), (151, 27867), (159, 27915), (161, 27927), (166, 27969), (170, 27987), (173, 28020), (181, 28068), (186, 28128), (188, 28143), (191, 28158), (192, 28161), (202, 28224), (212, 28296), (216, 28326),

Gene: Mosaic\_28 Start: 25935, Stop: 27368, Start Num: 13

Candidate Starts for Mosaic\_28:

(Start: 13 @25935 has 308 MA's), (23, 25992), (27, 26016), (32, 26040), (48, 26115), (74, 26331), (75, 26358), (77, 26367), (79, 26388), (83, 26409), (85, 26418), (94, 26481), (105, 26574), (112, 26631), (116, 26649), (136, 26781), (145, 26829), (150, 26871), (151, 26877), (152, 26880), (158, 26919), (162, 26952), (163, 26958), (164, 26967), (167, 26982), (172, 27027), (185, 27132), (191, 27168), (201, 27228), (203, 27237), (212, 27306),

Gene: MossRose\_27 Start: 25481, Stop: 27007, Start Num: 3

Candidate Starts for MossRose\_27:

(Start: 3 @25481 has 17 MA's), (7, 25514), (10, 25538), (11, 25541), (17, 25583), (18, 25586), (70, 25931), (75, 25997), (82, 26036), (93, 26111), (105, 26213), (112, 26270), (118, 26294), (128, 26360), (129, 26369), (130, 26381), (131, 26384), (137, 26423), (141, 26444), (150, 26510), (151, 26516), (157, 26555), (158, 26558), (162, 26591), (166, 26618), (168, 26627), (170, 26636), (176, 26681), (181, 26717), (182, 26729), (186, 26777), (201, 26867), (211, 26942), (216, 26975),

Gene: MrPhizzler\_28 Start: 25937, Stop: 27370, Start Num: 13



Candidate Starts for MrPhizzler\_28:

(Start: 13 @25937 has 308 MA's), (23, 25994), (27, 26018), (32, 26042), (48, 26117), (75, 26360), (77, 26369), (79, 26390), (83, 26411), (85, 26420), (94, 26483), (105, 26576), (106, 26579), (112, 26633), (116, 26651), (136, 26783), (145, 26831), (150, 26873), (151, 26879), (152, 26882), (158, 26921), (161, 26939), (162, 26954), (163, 26960), (164, 26969), (167, 26984), (172, 27029), (185, 27134), (191, 27170), (201, 27230), (203, 27239), (206, 27266), (212, 27308), (215, 27329),

Gene: Mudslide\_26 Start: 26707, Stop: 28140, Start Num: 13

Candidate Starts for Mudslide\_26:

(Start: 13 @26707 has 308 MA's), (20, 26740), (23, 26764), (24, 26767), (28, 26797), (36, 26839), (38, 26845), (48, 26887), (57, 26920), (62, 26962), (71, 27079), (74, 27103), (77, 27139), (78, 27145), (83, 27181), (85, 27190), (92, 27241), (98, 27283), (109, 27394), (115, 27412), (116, 27421), (117, 27424), (121, 27445), (129, 27502), (130, 27514), (137, 27556), (139, 27562), (150, 27643), (151, 27649), (154, 27673), (157, 27688), (158, 27691), (162, 27724), (164, 27739), (166, 27751), (173, 27802), (176, 27814), (190, 27937), (191, 27940), (202, 28006), (205, 28027), (211, 28075), (217, 28114), (220, 28135),

Gene: Mulan\_28 Start: 25947, Stop: 27380, Start Num: 13

Candidate Starts for Mulan\_28:

(Start: 13 @25947 has 308 MA's), (23, 26004), (27, 26028), (32, 26052), (48, 26127), (74, 26343), (75, 26370), (77, 26379), (79, 26400), (83, 26421), (85, 26430), (94, 26493), (105, 26586), (112, 26643), (116, 26661), (136, 26793), (145, 26841), (150, 26883), (151, 26889), (152, 26892), (158, 26931), (162, 26964), (163, 26970), (164, 26979), (167, 26994), (172, 27039), (185, 27144), (191, 27180), (201, 27240), (203, 27249), (212, 27318),

Gene: Murdoc\_29 Start: 26222, Stop: 27655, Start Num: 13

Candidate Starts for Murdoc\_29:

(Start: 13 @26222 has 308 MA's), (23, 26279), (27, 26303), (32, 26327), (48, 26402), (74, 26618), (75, 26645), (77, 26654), (79, 26675), (83, 26696), (85, 26705), (94, 26768), (105, 26861), (112, 26918), (116, 26936), (136, 27068), (145, 27116), (150, 27158), (151, 27164), (152, 27167), (158, 27206), (162, 27239), (163, 27245), (164, 27254), (167, 27269), (172, 27314), (185, 27419), (191, 27455), (201, 27515), (203, 27524), (212, 27593),

Gene: Mutante\_28 Start: 25929, Stop: 27362, Start Num: 13

Candidate Starts for Mutante\_28:

(Start: 13 @25929 has 308 MA's), (23, 25986), (27, 26010), (32, 26034), (48, 26109), (74, 26325), (75, 26352), (77, 26361), (79, 26382), (83, 26403), (85, 26412), (94, 26475), (105, 26568), (112, 26625), (116, 26643), (136, 26775), (145, 26823), (150, 26865), (151, 26871), (152, 26874), (158, 26913), (162, 26946), (163, 26952), (164, 26961), (167, 26976), (172, 27021), (185, 27126), (191, 27162), (201, 27222), (203, 27231), (212, 27300),

Gene: Mysterious\_29 Start: 26714, Stop: 28147, Start Num: 14

Candidate Starts for Mysterious\_29:

(Start: 14 @26714 has 83 MA's), (31, 26816), (41, 26867), (54, 26915), (61, 26966), (63, 26996), (77, 27146), (78, 27152), (83, 27188), (85, 27197), (112, 27410), (117, 27431), (129, 27509), (132, 27527), (139, 27569), (141, 27584), (142, 27587), (150, 27650), (157, 27695), (166, 27758), (168, 27767), (169, 27773), (174, 27815), (176, 27821), (196, 27980), (203, 28016), (216, 28115), (217, 28121),

Gene: NHagos\_25 Start: 24022, Stop: 25548, Start Num: 3

Candidate Starts for NHagos\_25:

(Start: 3 @24022 has 17 MA's), (7, 24055), (10, 24079), (16, 24118), (17, 24124), (18, 24127), (21, 24142), (62, 24367), (70, 24472), (75, 24538), (76, 24544), (82, 24577), (105, 24754), (115, 24820), (117, 24832), (128, 24901), (129, 24910), (130, 24922), (135, 24958), (137, 24964), (141, 24985),

(150, 25051), (151, 25057), (155, 25087), (158, 25099), (162, 25132), (166, 25159), (168, 25168), (170, 25177), (173, 25210), (176, 25222), (189, 25342), (209, 25468), (211, 25483),

Gene: Nacho\_0029 Start: 26221, Stop: 27654, Start Num: 13

Candidate Starts for Nacho\_0029:

(Start: 13 @26221 has 308 MA's), (23, 26278), (27, 26302), (32, 26326), (48, 26401), (74, 26617), (75, 26644), (77, 26653), (79, 26674), (83, 26695), (85, 26704), (94, 26767), (105, 26860), (112, 26917), (116, 26935), (136, 27067), (145, 27115), (150, 27157), (151, 27163), (152, 27166), (158, 27205), (162, 27238), (163, 27244), (164, 27253), (167, 27268), (172, 27313), (185, 27418), (191, 27454), (201, 27514), (203, 27523), (212, 27592),

Gene: Nanao\_25 Start: 25432, Stop: 26865, Start Num: 13

Candidate Starts for Nanao\_25:

(Start: 13 @25432 has 308 MA's), (20, 25465), (23, 25489), (24, 25492), (28, 25522), (35, 25561), (36, 25564), (38, 25570), (48, 25612), (57, 25645), (62, 25687), (63, 25714), (74, 25828), (76, 25861), (77, 25864), (78, 25870), (83, 25906), (85, 25915), (92, 25966), (98, 26008), (107, 26083), (109, 26119), (115, 26137), (116, 26146), (117, 26149), (121, 26170), (129, 26227), (130, 26239), (137, 26281), (139, 26287), (150, 26368), (151, 26374), (154, 26398), (158, 26416), (162, 26449), (164, 26464), (166, 26476), (173, 26527), (176, 26539), (190, 26662), (191, 26665), (202, 26731), (205, 26752), (211, 26800), (217, 26839), (220, 26860),

Gene: Nangang\_28 Start: 26417, Stop: 27850, Start Num: 13

Candidate Starts for Nangang\_28:

(Start: 13 @26417 has 308 MA's), (31, 26519), (61, 26669), (63, 26699), (65, 26717), (68, 26759), (77, 26849), (78, 26855), (83, 26891), (85, 26900), (96, 26969), (117, 27134), (139, 27272), (142, 27290), (150, 27353), (168, 27470), (169, 27476), (186, 27620), (194, 27662), (196, 27683), (216, 27818), (217, 27824),

Gene: Nehemiah\_27 Start: 26714, Stop: 28147, Start Num: 14

Candidate Starts for Nehemiah\_27:

(Start: 14 @26714 has 83 MA's), (31, 26816), (41, 26867), (54, 26915), (58, 26945), (61, 26966), (63, 26996), (77, 27146), (78, 27152), (83, 27188), (85, 27197), (111, 27407), (112, 27410), (117, 27431), (129, 27509), (132, 27527), (139, 27569), (142, 27587), (150, 27650), (157, 27695), (166, 27758), (168, 27767), (169, 27773), (174, 27815), (176, 27821), (196, 27980), (203, 28016), (216, 28115), (217, 28121),

Gene: Neos5\_29 Start: 26944, Stop: 28374, Start Num: 14

Candidate Starts for Neos5\_29:

(Start: 14 @26944 has 83 MA's), (23, 27001), (27, 27025), (28, 27034), (50, 27121), (67, 27271), (70, 27298), (77, 27373), (82, 27403), (85, 27424), (87, 27442), (97, 27496), (99, 27529), (117, 27658), (129, 27736), (130, 27748), (133, 27769), (135, 27784), (139, 27796), (150, 27877), (151, 27883), (159, 27931), (161, 27943), (166, 27985), (170, 28003), (173, 28036), (181, 28084), (186, 28144), (188, 28159), (191, 28174), (192, 28177), (202, 28240), (212, 28312), (216, 28342),

Gene: Newman\_29 Start: 26217, Stop: 27650, Start Num: 13

Candidate Starts for Newman\_29:

(Start: 13 @26217 has 308 MA's), (23, 26274), (27, 26298), (32, 26322), (48, 26397), (74, 26613), (75, 26640), (77, 26649), (79, 26670), (83, 26691), (85, 26700), (94, 26763), (105, 26856), (112, 26913), (116, 26931), (136, 27063), (145, 27111), (150, 27153), (151, 27159), (152, 27162), (158, 27201), (162, 27234), (163, 27240), (164, 27249), (167, 27264), (172, 27309), (185, 27414), (191, 27450), (201, 27510), (203, 27519), (212, 27588),

Gene: Nicole21\_29 Start: 26219, Stop: 27652, Start Num: 13

Candidate Starts for Nicole21\_29:

(Start: 13 @26219 has 308 MA's), (23, 26276), (27, 26300), (32, 26324), (48, 26399), (74, 26615), (75, 26642), (77, 26651), (79, 26672), (83, 26693), (85, 26702), (94, 26765), (105, 26858), (112, 26915), (116, 26933), (136, 27065), (145, 27113), (150, 27155), (151, 27161), (152, 27164), (158, 27203), (161, 27221), (162, 27236), (163, 27242), (164, 27251), (167, 27266), (172, 27311), (185, 27416), (191, 27452), (201, 27512), (203, 27521), (212, 27590),

Gene: Nigel\_24 Start: 25343, Stop: 26776, Start Num: 13

Candidate Starts for Nigel\_24:

(Start: 13 @25343 has 308 MA's), (20, 25376), (23, 25400), (24, 25403), (28, 25433), (38, 25481), (48, 25523), (57, 25556), (62, 25598), (74, 25739), (76, 25772), (77, 25775), (78, 25781), (83, 25817), (85, 25826), (89, 25856), (92, 25877), (97, 25898), (109, 26030), (115, 26048), (116, 26057), (117, 26060), (121, 26081), (129, 26138), (130, 26150), (137, 26192), (139, 26198), (150, 26279), (151, 26285), (154, 26309), (162, 26360), (163, 26366), (164, 26375), (176, 26450), (187, 26555), (191, 26576), (202, 26642), (204, 26654), (205, 26663), (211, 26711), (212, 26714), (217, 26750), (220, 26771),

Gene: Nozo\_29 Start: 26908, Stop: 28338, Start Num: 14

Candidate Starts for Nozo\_29:

(Start: 14 @26908 has 83 MA's), (23, 26965), (27, 26989), (28, 26998), (50, 27085), (70, 27262), (75, 27328), (77, 27337), (82, 27367), (85, 27388), (87, 27406), (97, 27460), (99, 27493), (117, 27622), (129, 27700), (130, 27712), (133, 27733), (135, 27748), (139, 27760), (150, 27841), (151, 27847), (161, 27907), (166, 27949), (170, 27967), (173, 28000), (181, 28048), (186, 28108), (188, 28123), (191, 28138), (192, 28141), (202, 28204), (212, 28276), (216, 28306),

Gene: Numberten\_29 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Numberten\_29:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Nyala\_28 Start: 25921, Stop: 27354, Start Num: 13

Candidate Starts for Nyala\_28:

(Start: 13 @25921 has 308 MA's), (23, 25978), (27, 26002), (32, 26026), (48, 26101), (74, 26317), (75, 26344), (77, 26353), (79, 26374), (83, 26395), (85, 26404), (94, 26467), (105, 26560), (112, 26617), (116, 26635), (136, 26767), (145, 26815), (150, 26857), (151, 26863), (152, 26866), (158, 26905), (162, 26938), (163, 26944), (164, 26953), (167, 26968), (172, 27013), (185, 27118), (191, 27154), (201, 27214), (203, 27223), (212, 27292),

Gene: OSmaximus\_29 Start: 26256, Stop: 27689, Start Num: 13

Candidate Starts for OSmaximus\_29:

(Start: 13 @26256 has 308 MA's), (23, 26313), (27, 26337), (32, 26361), (48, 26436), (74, 26652), (75, 26679), (77, 26688), (79, 26709), (83, 26730), (85, 26739), (94, 26802), (105, 26895), (112, 26952), (116, 26970), (136, 27102), (145, 27150), (150, 27192), (151, 27198), (152, 27201), (158, 27240), (162, 27273), (163, 27279), (164, 27288), (167, 27303), (172, 27348), (185, 27453), (191, 27489), (201, 27549), (203, 27558), (206, 27585), (212, 27627),

Gene: Obutu\_29 Start: 26132, Stop: 27562, Start Num: 14

Candidate Starts for Obutu\_29:

(Start: 14 @26132 has 83 MA's), (23, 26189), (27, 26213), (28, 26222), (50, 26309), (67, 26459), (70, 26486), (77, 26561), (82, 26591), (85, 26612), (87, 26630), (97, 26684), (99, 26717), (117, 26846), (129, 26924), (130, 26936), (133, 26957), (135, 26972), (139, 26984), (150, 27065), (151, 27071),

(161, 27131), (166, 27173), (170, 27191), (173, 27224), (181, 27272), (186, 27332), (188, 27347),  
(191, 27362), (192, 27365), (202, 27428), (212, 27500), (216, 27530),

Gene: Olak\_28 Start: 25925, Stop: 27358, Start Num: 13

Candidate Starts for Olak\_28:

(Start: 13 @25925 has 308 MA's), (23, 25982), (27, 26006), (32, 26030), (48, 26105), (74, 26321), (75, 26348), (77, 26357), (79, 26378), (83, 26399), (85, 26408), (94, 26471), (105, 26564), (112, 26621), (116, 26639), (136, 26771), (145, 26819), (150, 26861), (151, 26867), (152, 26870), (158, 26909), (162, 26942), (163, 26948), (164, 26957), (167, 26972), (172, 27017), (185, 27122), (191, 27158), (201, 27218), (203, 27227), (212, 27296),

Gene: Oline\_28 Start: 25790, Stop: 27223, Start Num: 13

Candidate Starts for Oline\_28:

(Start: 13 @25790 has 308 MA's), (23, 25847), (27, 25871), (32, 25895), (48, 25970), (75, 26213), (77, 26222), (79, 26243), (83, 26264), (85, 26273), (94, 26336), (105, 26429), (106, 26432), (112, 26486), (116, 26504), (136, 26636), (145, 26684), (150, 26726), (151, 26732), (152, 26735), (158, 26774), (161, 26792), (162, 26807), (163, 26813), (164, 26822), (167, 26837), (172, 26882), (185, 26987), (191, 27023), (201, 27083), (203, 27092), (206, 27119), (212, 27161), (215, 27182),

Gene: Olive\_29 Start: 26211, Stop: 27644, Start Num: 13

Candidate Starts for Olive\_29:

(Start: 13 @26211 has 308 MA's), (23, 26268), (27, 26292), (32, 26316), (48, 26391), (74, 26607), (75, 26634), (77, 26643), (79, 26664), (83, 26685), (85, 26694), (94, 26757), (105, 26850), (112, 26907), (116, 26925), (136, 27057), (145, 27105), (150, 27147), (151, 27153), (152, 27156), (158, 27195), (162, 27228), (163, 27234), (164, 27243), (167, 27258), (172, 27303), (185, 27408), (191, 27444), (201, 27504), (203, 27513), (212, 27582),

Gene: OliverWalter\_29 Start: 26230, Stop: 27663, Start Num: 13

Candidate Starts for OliverWalter\_29:

(Start: 13 @26230 has 308 MA's), (23, 26287), (27, 26311), (32, 26335), (48, 26410), (74, 26626), (75, 26653), (77, 26662), (79, 26683), (83, 26704), (85, 26713), (94, 26776), (105, 26869), (112, 26926), (116, 26944), (136, 27076), (145, 27124), (150, 27166), (151, 27172), (152, 27175), (158, 27214), (162, 27247), (163, 27253), (164, 27262), (167, 27277), (172, 27322), (185, 27427), (191, 27463), (201, 27523), (203, 27532), (212, 27601),

Gene: Omniscient\_29 Start: 26230, Stop: 27663, Start Num: 13

Candidate Starts for Omniscient\_29:

(Start: 13 @26230 has 308 MA's), (23, 26287), (27, 26311), (32, 26335), (48, 26410), (74, 26626), (75, 26653), (77, 26662), (79, 26683), (83, 26704), (85, 26713), (94, 26776), (105, 26869), (112, 26926), (116, 26944), (136, 27076), (145, 27124), (150, 27166), (151, 27172), (152, 27175), (158, 27214), (162, 27247), (163, 27253), (164, 27262), (167, 27277), (172, 27322), (185, 27427), (191, 27463), (201, 27523), (203, 27532), (212, 27601),

Gene: Oosterbaan\_29 Start: 26221, Stop: 27654, Start Num: 13

Candidate Starts for Oosterbaan\_29:

(Start: 13 @26221 has 308 MA's), (23, 26278), (27, 26302), (32, 26326), (48, 26401), (74, 26617), (75, 26644), (77, 26653), (79, 26674), (83, 26695), (85, 26704), (94, 26767), (105, 26860), (112, 26917), (116, 26935), (136, 27067), (145, 27115), (150, 27157), (151, 27163), (152, 27166), (158, 27205), (162, 27238), (163, 27244), (164, 27253), (167, 27268), (172, 27313), (185, 27418), (191, 27454), (201, 27514), (203, 27523), (212, 27592),

Gene: Opia\_30 Start: 27476, Stop: 28912, Start Num: 14

Candidate Starts for Opia\_30:

(Start: 14 @27476 has 83 MA's), (20, 27509), (23, 27533), (24, 27536), (27, 27557), (31, 27578), (39, 27611), (49, 27656), (52, 27665), (62, 27728), (76, 27908), (77, 27911), (79, 27932), (84, 27956), (85, 27962), (87, 27980), (91, 28010), (92, 28013), (95, 28028), (97, 28034), (104, 28103), (108, 28157), (112, 28175), (116, 28193), (117, 28196), (122, 28220), (129, 28274), (134, 28313), (138, 28331), (142, 28352), (149, 28409), (150, 28415), (152, 28424), (161, 28481), (168, 28532), (170, 28541), (173, 28574), (175, 28583), (184, 28649), (187, 28691), (191, 28712), (194, 28724), (195, 28742), (203, 28781), (211, 28847), (212, 28850), (216, 28880),

Gene: OrangeOswald\_29 Start: 26146, Stop: 27576, Start Num: 14

Candidate Starts for OrangeOswald\_29:

(Start: 14 @26146 has 83 MA's), (23, 26203), (27, 26227), (28, 26236), (50, 26323), (67, 26473), (70, 26500), (77, 26575), (82, 26605), (85, 26626), (87, 26644), (97, 26698), (99, 26731), (117, 26860), (129, 26938), (130, 26950), (133, 26971), (135, 26986), (139, 26998), (150, 27079), (151, 27085), (159, 27133), (161, 27145), (166, 27187), (170, 27205), (173, 27238), (181, 27286), (186, 27346), (188, 27361), (191, 27376), (192, 27379), (202, 27442), (212, 27514), (216, 27544),

Gene: Orfeu\_28 Start: 25929, Stop: 27362, Start Num: 13

Candidate Starts for Orfeu\_28:

(Start: 13 @25929 has 308 MA's), (23, 25986), (27, 26010), (32, 26034), (48, 26109), (74, 26325), (75, 26352), (77, 26361), (79, 26382), (83, 26403), (85, 26412), (94, 26475), (105, 26568), (112, 26625), (116, 26643), (136, 26775), (145, 26823), (150, 26865), (151, 26871), (152, 26874), (158, 26913), (162, 26946), (163, 26952), (164, 26961), (167, 26976), (172, 27021), (185, 27126), (191, 27162), (201, 27222), (203, 27231), (212, 27300),

Gene: Orion\_29 Start: 26219, Stop: 27652, Start Num: 13

Candidate Starts for Orion\_29:

(Start: 13 @26219 has 308 MA's), (23, 26276), (27, 26300), (32, 26324), (48, 26399), (74, 26615), (75, 26642), (77, 26651), (79, 26672), (83, 26693), (85, 26702), (94, 26765), (105, 26858), (112, 26915), (116, 26933), (136, 27065), (145, 27113), (150, 27155), (151, 27161), (152, 27164), (158, 27203), (162, 27236), (163, 27242), (164, 27251), (167, 27266), (172, 27311), (185, 27416), (191, 27452), (201, 27512), (203, 27521), (212, 27590),

Gene: Orwigg\_29 Start: 25917, Stop: 27350, Start Num: 13

Candidate Starts for Orwigg\_29:

(Start: 13 @25917 has 308 MA's), (23, 25974), (27, 25998), (32, 26022), (48, 26097), (74, 26313), (75, 26340), (77, 26349), (79, 26370), (83, 26391), (85, 26400), (94, 26463), (105, 26556), (112, 26613), (116, 26631), (136, 26763), (145, 26811), (150, 26853), (151, 26859), (152, 26862), (158, 26901), (162, 26934), (163, 26940), (164, 26949), (167, 26964), (172, 27009), (185, 27114), (191, 27150), (201, 27210), (203, 27219), (212, 27288),

Gene: PG1\_29 Start: 26232, Stop: 27665, Start Num: 13

Candidate Starts for PG1\_29:

(Start: 13 @26232 has 308 MA's), (23, 26289), (27, 26313), (32, 26337), (48, 26412), (74, 26628), (75, 26655), (77, 26664), (79, 26685), (83, 26706), (85, 26715), (94, 26778), (105, 26871), (112, 26928), (116, 26946), (136, 27078), (145, 27126), (150, 27168), (151, 27174), (152, 27177), (158, 27216), (162, 27249), (163, 27255), (164, 27264), (167, 27279), (172, 27324), (185, 27429), (191, 27465), (201, 27525), (203, 27534), (212, 27603),

Gene: PR\_22 Start: 24737, Stop: 26173, Start Num: 15

Candidate Starts for PR\_22:

(Start: 15 @24737 has 8 MA's), (19, 24758), (20, 24767), (49, 24914), (52, 24923), (64, 25025), (66, 25043), (70, 25094), (72, 25124), (75, 25160), (77, 25169), (80, 25193), (82, 25199), (92, 25271), (112, 25433), (114, 25439), (116, 25451), (117, 25454), (129, 25532), (130, 25544), (135, 25580),

(140, 25595), (142, 25613), (150, 25676), (151, 25682), (153, 25703), (157, 25721), (158, 25724), (161, 25742), (165, 25775), (166, 25784), (168, 25793), (170, 25802), (173, 25835), (182, 25895), (184, 25910), (186, 25943), (191, 25973), (200, 26027), (211, 26108), (212, 26111), (216, 26141),

Gene: Pacifista\_28 Start: 25923, Stop: 27356, Start Num: 13

Candidate Starts for Pacifista\_28:

(Start: 13 @25923 has 308 MA's), (23, 25980), (27, 26004), (32, 26028), (48, 26103), (74, 26319), (75, 26346), (77, 26355), (79, 26376), (83, 26397), (85, 26406), (94, 26469), (105, 26562), (112, 26619), (116, 26637), (136, 26769), (145, 26817), (150, 26859), (151, 26865), (152, 26868), (158, 26907), (162, 26940), (163, 26946), (164, 26955), (167, 26970), (172, 27015), (185, 27120), (191, 27156), (201, 27216), (203, 27225), (212, 27294),

Gene: PenguinLover67\_30 Start: 28415, Stop: 29851, Start Num: 13

Candidate Starts for PenguinLover67\_30:

(Start: 13 @28415 has 308 MA's), (23, 28472), (24, 28475), (27, 28496), (48, 28595), (57, 28628), (62, 28670), (74, 28811), (76, 28844), (77, 28847), (78, 28853), (85, 28898), (89, 28928), (95, 28964), (97, 28970), (112, 29111), (117, 29132), (128, 29201), (132, 29228), (135, 29258), (141, 29285), (150, 29354), (151, 29360), (157, 29399), (158, 29402), (164, 29450), (165, 29453), (168, 29471), (172, 29510), (183, 29585), (213, 29792),

Gene: Phaedrus\_27 Start: 26065, Stop: 27495, Start Num: 14

Candidate Starts for Phaedrus\_27:

(Start: 14 @26065 has 83 MA's), (23, 26122), (27, 26146), (28, 26155), (50, 26242), (70, 26419), (75, 26485), (77, 26494), (82, 26524), (85, 26545), (87, 26563), (97, 26617), (117, 26779), (129, 26857), (130, 26869), (133, 26890), (135, 26905), (139, 26917), (150, 26998), (151, 27004), (159, 27052), (161, 27064), (166, 27106), (170, 27124), (173, 27157), (181, 27205), (186, 27265), (188, 27280), (191, 27295), (192, 27298), (202, 27361), (212, 27433), (216, 27463),

Gene: Phamished\_29 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Phamished\_29:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Phantasmagoria\_30 Start: 27487, Stop: 28923, Start Num: 14

Candidate Starts for Phantasmagoria\_30:

(Start: 14 @27487 has 83 MA's), (20, 27520), (23, 27544), (24, 27547), (27, 27568), (31, 27589), (39, 27622), (49, 27667), (52, 27676), (62, 27739), (76, 27919), (77, 27922), (79, 27943), (84, 27967), (85, 27973), (87, 27991), (91, 28021), (92, 28024), (97, 28045), (104, 28114), (108, 28168), (112, 28186), (116, 28204), (117, 28207), (122, 28231), (129, 28285), (134, 28324), (138, 28342), (142, 28363), (149, 28420), (150, 28426), (152, 28435), (161, 28492), (168, 28543), (170, 28552), (173, 28585), (175, 28594), (184, 28660), (187, 28702), (191, 28723), (194, 28735), (195, 28753), (203, 28792), (211, 28858), (212, 28861), (216, 28891),

Gene: Phareon\_29 Start: 25931, Stop: 27364, Start Num: 13

Candidate Starts for Phareon\_29:

(Start: 13 @25931 has 308 MA's), (23, 25988), (27, 26012), (32, 26036), (48, 26111), (74, 26327), (75, 26354), (77, 26363), (79, 26384), (83, 26405), (85, 26414), (94, 26477), (105, 26570), (112, 26627), (116, 26645), (136, 26777), (145, 26825), (150, 26867), (151, 26873), (152, 26876), (158, 26915), (162, 26948), (163, 26954), (164, 26963), (167, 26978), (172, 27023), (185, 27128), (191, 27164), (201, 27224), (203, 27233), (212, 27302),

Gene: PhatCats2014\_29 Start: 26236, Stop: 27669, Start Num: 13

Candidate Starts for PhatCats2014\_29:

(Start: 13 @26236 has 308 MA's), (23, 26293), (27, 26317), (32, 26341), (48, 26416), (74, 26632), (75, 26659), (77, 26668), (79, 26689), (83, 26710), (85, 26719), (94, 26782), (105, 26875), (112, 26932), (116, 26950), (136, 27082), (145, 27130), (150, 27172), (151, 27178), (152, 27181), (158, 27220), (162, 27253), (163, 27259), (164, 27268), (167, 27283), (172, 27328), (185, 27433), (191, 27469), (201, 27529), (203, 27538), (212, 27607),

Gene: PhatLouie\_29 Start: 26225, Stop: 27658, Start Num: 13

Candidate Starts for PhatLouie\_29:

(Start: 13 @26225 has 308 MA's), (23, 26282), (27, 26306), (32, 26330), (48, 26405), (75, 26648), (77, 26657), (79, 26678), (83, 26699), (85, 26708), (94, 26771), (105, 26864), (106, 26867), (112, 26921), (116, 26939), (136, 27071), (145, 27119), (150, 27161), (151, 27167), (152, 27170), (158, 27209), (161, 27227), (162, 27242), (163, 27248), (164, 27257), (167, 27272), (172, 27317), (185, 27422), (191, 27458), (201, 27518), (203, 27527), (206, 27554), (212, 27596), (215, 27617),

Gene: Phayeta\_29 Start: 26013, Stop: 27443, Start Num: 14

Candidate Starts for Phayeta\_29:

(Start: 14 @26013 has 83 MA's), (23, 26070), (27, 26094), (28, 26103), (50, 26190), (67, 26340), (70, 26367), (77, 26442), (82, 26472), (85, 26493), (87, 26511), (97, 26565), (99, 26598), (117, 26727), (129, 26805), (130, 26817), (133, 26838), (135, 26853), (139, 26865), (150, 26946), (151, 26952), (161, 27012), (166, 27054), (170, 27072), (173, 27105), (181, 27153), (186, 27213), (188, 27228), (191, 27243), (192, 27246), (202, 27309), (212, 27381), (216, 27411),

Gene: Phelemich\_28 Start: 26710, Stop: 28143, Start Num: 14

Candidate Starts for Phelemich\_28:

(Start: 14 @26710 has 83 MA's), (31, 26812), (41, 26863), (54, 26911), (61, 26962), (63, 26992), (77, 27142), (78, 27148), (83, 27184), (85, 27193), (112, 27406), (129, 27505), (130, 27517), (132, 27523), (139, 27565), (141, 27580), (142, 27583), (150, 27646), (157, 27691), (166, 27754), (168, 27763), (169, 27769), (174, 27811), (176, 27817), (196, 27976), (203, 28012), (216, 28111), (217, 28117),

Gene: PhenghisKhan\_28 Start: 25831, Stop: 27264, Start Num: 13

Candidate Starts for PhenghisKhan\_28:

(Start: 13 @25831 has 308 MA's), (23, 25888), (27, 25912), (32, 25936), (48, 26011), (75, 26254), (77, 26263), (79, 26284), (83, 26305), (85, 26314), (94, 26377), (105, 26470), (112, 26527), (116, 26545), (136, 26677), (145, 26725), (150, 26767), (151, 26773), (152, 26776), (158, 26815), (161, 26833), (162, 26848), (163, 26854), (164, 26863), (167, 26878), (172, 26923), (185, 27028), (191, 27064), (201, 27124), (203, 27133), (206, 27160), (212, 27202), (215, 27223),

Gene: Pherdinand\_29 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Pherdinand\_29:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Phergie\_28 Start: 25822, Stop: 27255, Start Num: 13

Candidate Starts for Phergie\_28:

(Start: 13 @25822 has 308 MA's), (23, 25879), (27, 25903), (32, 25927), (48, 26002), (75, 26245), (77, 26254), (79, 26275), (83, 26296), (85, 26305), (94, 26368), (105, 26461), (112, 26518), (116, 26536), (136, 26668), (145, 26716), (150, 26758), (151, 26764), (152, 26767), (158, 26806), (161, 26824),

(162, 26839), (163, 26845), (164, 26854), (167, 26869), (172, 26914), (185, 27019), (191, 27055), (201, 27115), (203, 27124), (206, 27151), (212, 27193), (215, 27214),

Gene: Philly\_28 Start: 26000, Stop: 27430, Start Num: 14

Candidate Starts for Philly\_28:

(Start: 14 @26000 has 83 MA's), (23, 26057), (27, 26081), (28, 26090), (50, 26177), (67, 26327), (70, 26354), (77, 26429), (82, 26459), (85, 26480), (87, 26498), (97, 26552), (99, 26585), (117, 26714), (129, 26792), (130, 26804), (133, 26825), (135, 26840), (139, 26852), (150, 26933), (151, 26939), (159, 26987), (161, 26999), (166, 27041), (170, 27059), (173, 27092), (181, 27140), (186, 27200), (188, 27215), (191, 27230), (192, 27233), (212, 27368), (216, 27398),

Gene: Phipps\_29 Start: 26197, Stop: 27630, Start Num: 13

Candidate Starts for Phipps\_29:

(Start: 13 @26197 has 308 MA's), (23, 26254), (27, 26278), (32, 26302), (48, 26377), (74, 26593), (75, 26620), (77, 26629), (79, 26650), (83, 26671), (85, 26680), (94, 26743), (105, 26836), (112, 26893), (116, 26911), (136, 27043), (145, 27091), (150, 27133), (151, 27139), (152, 27142), (158, 27181), (162, 27214), (163, 27220), (164, 27229), (167, 27244), (172, 27289), (185, 27394), (191, 27430), (201, 27490), (203, 27499), (212, 27568),

Gene: Phleuron\_28 Start: 25828, Stop: 27261, Start Num: 13

Candidate Starts for Phleuron\_28:

(Start: 13 @25828 has 308 MA's), (23, 25885), (27, 25909), (32, 25933), (48, 26008), (75, 26251), (77, 26260), (79, 26281), (83, 26302), (85, 26311), (94, 26374), (105, 26467), (112, 26524), (116, 26542), (136, 26674), (145, 26722), (150, 26764), (151, 26770), (152, 26773), (158, 26812), (161, 26830), (162, 26845), (163, 26851), (164, 26860), (167, 26875), (172, 26920), (185, 27025), (191, 27061), (201, 27121), (203, 27130), (206, 27157), (212, 27199), (215, 27220),

Gene: Phlyer\_29 Start: 26881, Stop: 28311, Start Num: 14

Candidate Starts for Phlyer\_29:

(Start: 14 @26881 has 83 MA's), (23, 26938), (27, 26962), (28, 26971), (50, 27058), (67, 27208), (70, 27235), (77, 27310), (82, 27340), (85, 27361), (87, 27379), (97, 27433), (99, 27466), (117, 27595), (129, 27673), (130, 27685), (133, 27706), (135, 27721), (139, 27733), (150, 27814), (151, 27820), (159, 27868), (161, 27880), (166, 27922), (170, 27940), (173, 27973), (181, 28021), (186, 28081), (188, 28096), (191, 28111), (192, 28114), (212, 28249), (216, 28279),

Gene: PhrankReynolds\_28 Start: 25828, Stop: 27261, Start Num: 13

Candidate Starts for PhrankReynolds\_28:

(Start: 13 @25828 has 308 MA's), (23, 25885), (27, 25909), (32, 25933), (48, 26008), (75, 26251), (77, 26260), (79, 26281), (83, 26302), (85, 26311), (94, 26374), (105, 26467), (112, 26524), (116, 26542), (136, 26674), (145, 26722), (150, 26764), (151, 26770), (152, 26773), (158, 26812), (161, 26830), (162, 26845), (163, 26851), (164, 26860), (167, 26875), (172, 26920), (185, 27025), (191, 27061), (201, 27121), (203, 27130), (206, 27157), (212, 27199), (215, 27220),

Gene: PhrodoBaggins\_28 Start: 26215, Stop: 27648, Start Num: 13

Candidate Starts for PhrodoBaggins\_28:

(Start: 13 @26215 has 308 MA's), (23, 26272), (27, 26296), (32, 26320), (48, 26395), (74, 26611), (75, 26638), (77, 26647), (79, 26668), (83, 26689), (85, 26698), (94, 26761), (105, 26854), (112, 26911), (116, 26929), (136, 27061), (145, 27109), (150, 27151), (151, 27157), (152, 27160), (158, 27199), (162, 27232), (163, 27238), (164, 27247), (167, 27262), (172, 27307), (185, 27412), (191, 27448), (201, 27508), (203, 27517), (212, 27586),

Gene: Phunky\_29 Start: 26228, Stop: 27661, Start Num: 13

Candidate Starts for Phunky\_29:



(Start: 13 @26228 has 308 MA's), (23, 26285), (27, 26309), (32, 26333), (48, 26408), (74, 26624), (75, 26651), (77, 26660), (79, 26681), (83, 26702), (85, 26711), (94, 26774), (105, 26867), (112, 26924), (116, 26942), (136, 27074), (145, 27122), (150, 27164), (151, 27170), (152, 27173), (158, 27212), (162, 27245), (163, 27251), (164, 27260), (167, 27275), (172, 27320), (185, 27425), (191, 27461), (201, 27521), (203, 27530), (212, 27599),

Gene: Piglet\_0028 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Piglet\_0028:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Pine5\_28 Start: 25851, Stop: 27155, Start Num: 42

Candidate Starts for Pine5\_28:

(42, 25851), (76, 26121), (77, 26124), (83, 26166), (88, 26202), (96, 26244), (99, 26280), (100, 26289), (101, 26298), (110, 26391), (113, 26403), (118, 26427), (119, 26436), (122, 26448), (160, 26706), (174, 26808), (175, 26811), (193, 26949), (207, 27048), (210, 27087),

Gene: PinheadLarry\_29 Start: 25941, Stop: 27374, Start Num: 13

Candidate Starts for PinheadLarry\_29:

(Start: 13 @25941 has 308 MA's), (23, 25998), (27, 26022), (32, 26046), (48, 26121), (74, 26337), (75, 26364), (77, 26373), (79, 26394), (83, 26415), (85, 26424), (94, 26487), (105, 26580), (106, 26583), (112, 26637), (116, 26655), (136, 26787), (145, 26835), (150, 26877), (151, 26883), (152, 26886), (158, 26925), (161, 26943), (162, 26958), (163, 26964), (164, 26973), (167, 26988), (172, 27033), (185, 27138), (191, 27174), (201, 27234), (203, 27243), (206, 27270), (212, 27312),

Gene: Pinkman\_28 Start: 25784, Stop: 27217, Start Num: 13

Candidate Starts for Pinkman\_28:

(Start: 13 @25784 has 308 MA's), (23, 25841), (27, 25865), (32, 25889), (48, 25964), (75, 26207), (77, 26216), (79, 26237), (83, 26258), (85, 26267), (94, 26330), (105, 26423), (106, 26426), (112, 26480), (116, 26498), (136, 26630), (145, 26678), (150, 26720), (151, 26726), (152, 26729), (158, 26768), (161, 26786), (162, 26801), (163, 26807), (164, 26816), (167, 26831), (172, 26876), (185, 26981), (191, 27017), (201, 27077), (203, 27086), (206, 27113), (212, 27155), (215, 27176),

Gene: Pipefish\_30 Start: 27538, Stop: 28968, Start Num: 14

Candidate Starts for Pipefish\_30:

(Start: 9 @27511 has 1 MA's), (12, 27529), (Start: 14 @27538 has 83 MA's), (19, 27562), (23, 27595), (27, 27619), (28, 27628), (50, 27715), (67, 27865), (70, 27892), (77, 27967), (82, 27997), (85, 28018), (87, 28036), (97, 28090), (99, 28123), (101, 28141), (117, 28252), (129, 28330), (130, 28342), (133, 28363), (135, 28378), (139, 28390), (150, 28471), (151, 28477), (161, 28537), (166, 28579), (170, 28597), (173, 28630), (181, 28678), (186, 28738), (188, 28753), (191, 28768), (192, 28771), (202, 28834), (212, 28906), (216, 28936),

Gene: Pipsqueak\_29 Start: 26226, Stop: 27659, Start Num: 13

Candidate Starts for Pipsqueak\_29:

(Start: 13 @26226 has 308 MA's), (23, 26283), (27, 26307), (32, 26331), (48, 26406), (74, 26622), (75, 26649), (77, 26658), (79, 26679), (83, 26700), (85, 26709), (94, 26772), (105, 26865), (112, 26922), (116, 26940), (136, 27072), (145, 27120), (150, 27162), (151, 27168), (152, 27171), (158, 27210), (162, 27243), (163, 27249), (164, 27258), (167, 27273), (172, 27318), (185, 27423), (191, 27459), (201, 27519), (203, 27528), (212, 27597),

Gene: Placalicious\_28 Start: 25919, Stop: 27352, Start Num: 13

Candidate Starts for Placalicious\_28:

(Start: 13 @25919 has 308 MA's), (23, 25976), (27, 26000), (32, 26024), (48, 26099), (74, 26315), (75, 26342), (77, 26351), (79, 26372), (83, 26393), (85, 26402), (94, 26465), (105, 26558), (112, 26615), (116, 26633), (136, 26765), (145, 26813), (150, 26855), (151, 26861), (152, 26864), (158, 26903), (162, 26936), (163, 26942), (164, 26951), (167, 26966), (172, 27011), (185, 27116), (191, 27152), (201, 27212), (203, 27221), (212, 27290),

Gene: Plmatters\_29 Start: 26224, Stop: 27657, Start Num: 13

Candidate Starts for Plmatters\_29:

(Start: 13 @26224 has 308 MA's), (23, 26281), (27, 26305), (32, 26329), (48, 26404), (74, 26620), (75, 26647), (77, 26656), (79, 26677), (83, 26698), (85, 26707), (94, 26770), (105, 26863), (112, 26920), (116, 26938), (136, 27070), (145, 27118), (150, 27160), (151, 27166), (152, 27169), (158, 27208), (162, 27241), (163, 27247), (164, 27256), (167, 27271), (172, 27316), (185, 27421), (191, 27457), (201, 27517), (203, 27526), (212, 27595),

Gene: Podrick\_29 Start: 26216, Stop: 27649, Start Num: 13

Candidate Starts for Podrick\_29:

(Start: 13 @26216 has 308 MA's), (23, 26273), (27, 26297), (32, 26321), (48, 26396), (74, 26612), (75, 26639), (77, 26648), (79, 26669), (83, 26690), (85, 26699), (94, 26762), (105, 26855), (112, 26912), (116, 26930), (136, 27062), (145, 27110), (150, 27152), (151, 27158), (152, 27161), (158, 27200), (162, 27233), (163, 27239), (164, 27248), (167, 27263), (172, 27308), (185, 27413), (191, 27449), (201, 27509), (203, 27518), (212, 27587),

Gene: Pops\_29 Start: 26236, Stop: 27669, Start Num: 13

Candidate Starts for Pops\_29:

(Start: 13 @26236 has 308 MA's), (23, 26293), (27, 26317), (32, 26341), (48, 26416), (74, 26632), (75, 26659), (77, 26668), (79, 26689), (83, 26710), (85, 26719), (94, 26782), (105, 26875), (112, 26932), (116, 26950), (136, 27082), (145, 27130), (150, 27172), (151, 27178), (158, 27220), (161, 27238), (162, 27253), (163, 27259), (164, 27268), (167, 27283), (172, 27328), (185, 27433), (191, 27469), (201, 27529), (203, 27538), (212, 27607),

Gene: Poster\_25 Start: 25433, Stop: 26866, Start Num: 13

Candidate Starts for Poster\_25:

(Start: 13 @25433 has 308 MA's), (20, 25466), (23, 25490), (24, 25493), (28, 25523), (35, 25562), (36, 25565), (38, 25571), (48, 25613), (57, 25646), (62, 25688), (63, 25715), (74, 25829), (76, 25862), (77, 25865), (78, 25871), (83, 25907), (85, 25916), (92, 25967), (98, 26009), (107, 26084), (109, 26120), (115, 26138), (116, 26147), (117, 26150), (121, 26171), (129, 26228), (130, 26240), (137, 26282), (139, 26288), (150, 26369), (151, 26375), (154, 26399), (158, 26417), (162, 26450), (164, 26465), (166, 26477), (173, 26528), (176, 26540), (190, 26663), (191, 26666), (202, 26732), (205, 26753), (211, 26801), (217, 26840), (220, 26861),

Gene: Potter\_28 Start: 25940, Stop: 27373, Start Num: 13

Candidate Starts for Potter\_28:

(Start: 13 @25940 has 308 MA's), (23, 25997), (27, 26021), (32, 26045), (48, 26120), (74, 26336), (75, 26363), (77, 26372), (79, 26393), (83, 26414), (85, 26423), (94, 26486), (105, 26579), (112, 26636), (116, 26654), (136, 26786), (145, 26834), (150, 26876), (151, 26882), (152, 26885), (158, 26924), (162, 26957), (163, 26963), (164, 26972), (167, 26987), (172, 27032), (185, 27137), (191, 27173), (201, 27233), (203, 27242), (212, 27311),

Gene: Prickles\_29 Start: 26216, Stop: 27649, Start Num: 13

Candidate Starts for Prickles\_29:

(Start: 13 @26216 has 308 MA's), (23, 26273), (27, 26297), (32, 26321), (48, 26396), (74, 26612), (75, 26639), (77, 26648), (79, 26669), (83, 26690), (85, 26699), (94, 26762), (105, 26855), (112, 26912), (116, 26930), (136, 27062), (145, 27110), (150, 27152), (151, 27158), (152, 27161), (158, 27200), (162, 27233), (163, 27239), (164, 27248), (167, 27263), (172, 27308), (185, 27413), (191, 27449), (201, 27509), (203, 27518), (212, 27587),

Gene: Prince\_26 Start: 26616, Stop: 28049, Start Num: 13

Candidate Starts for Prince\_26:

(Start: 13 @26616 has 308 MA's), (20, 26649), (23, 26673), (24, 26676), (28, 26706), (36, 26748), (38, 26754), (48, 26796), (57, 26829), (62, 26871), (63, 26898), (74, 27012), (76, 27045), (77, 27048), (78, 27054), (83, 27090), (85, 27099), (92, 27150), (98, 27192), (109, 27303), (116, 27330), (117, 27333), (121, 27354), (129, 27411), (130, 27423), (137, 27465), (139, 27471), (150, 27552), (151, 27558), (154, 27582), (158, 27600), (162, 27633), (164, 27648), (166, 27660), (173, 27711), (176, 27723), (190, 27846), (191, 27849), (202, 27915), (205, 27936), (211, 27984), (217, 28023), (220, 28044),

Gene: ProfessorX\_29 Start: 26211, Stop: 27644, Start Num: 13

Candidate Starts for ProfessorX\_29:

(Start: 13 @26211 has 308 MA's), (23, 26268), (27, 26292), (32, 26316), (48, 26391), (74, 26607), (75, 26634), (77, 26643), (79, 26664), (83, 26685), (85, 26694), (94, 26757), (105, 26850), (112, 26907), (116, 26925), (136, 27057), (145, 27105), (150, 27147), (151, 27153), (152, 27156), (158, 27195), (162, 27228), (163, 27234), (164, 27243), (167, 27258), (172, 27303), (185, 27408), (191, 27444), (201, 27504), (203, 27513), (212, 27582),

Gene: Puhltonio\_29 Start: 26231, Stop: 27664, Start Num: 13

Candidate Starts for Puhltonio\_29:

(Start: 13 @26231 has 308 MA's), (23, 26288), (27, 26312), (32, 26336), (48, 26411), (74, 26627), (75, 26654), (77, 26663), (79, 26684), (83, 26705), (85, 26714), (94, 26777), (105, 26870), (112, 26927), (116, 26945), (136, 27077), (145, 27125), (150, 27167), (151, 27173), (152, 27176), (158, 27215), (162, 27248), (163, 27254), (164, 27263), (167, 27278), (172, 27323), (185, 27428), (191, 27464), (201, 27524), (203, 27533), (212, 27602),

Gene: QueenBeane\_29 Start: 26222, Stop: 27655, Start Num: 13

Candidate Starts for QueenBeane\_29:

(Start: 13 @26222 has 308 MA's), (23, 26279), (27, 26303), (32, 26327), (48, 26402), (74, 26618), (75, 26645), (77, 26654), (79, 26675), (83, 26696), (85, 26705), (94, 26768), (105, 26861), (112, 26918), (116, 26936), (136, 27068), (145, 27116), (150, 27158), (151, 27164), (152, 27167), (158, 27206), (162, 27239), (163, 27245), (164, 27254), (167, 27269), (172, 27314), (185, 27419), (191, 27455), (201, 27515), (203, 27524), (212, 27593),

Gene: QueenPie\_25 Start: 26557, Stop: 27990, Start Num: 13

Candidate Starts for QueenPie\_25:

(Start: 13 @26557 has 308 MA's), (20, 26590), (23, 26614), (24, 26617), (28, 26647), (36, 26689), (38, 26695), (48, 26737), (57, 26770), (62, 26812), (74, 26953), (76, 26986), (77, 26989), (78, 26995), (83, 27031), (85, 27040), (92, 27091), (98, 27133), (109, 27244), (116, 27271), (117, 27274), (121, 27295), (129, 27352), (130, 27364), (137, 27406), (139, 27412), (150, 27493), (151, 27499), (154, 27523), (158, 27541), (162, 27574), (164, 27589), (166, 27601), (173, 27652), (176, 27664), (190, 27787), (191, 27790), (202, 27856), (205, 27877), (211, 27925), (217, 27964), (220, 27985),

Gene: Quesadilla\_29 Start: 28309, Stop: 29742, Start Num: 13

Candidate Starts for Quesadilla\_29:

(Start: 13 @28309 has 308 MA's), (20, 28342), (23, 28366), (24, 28369), (27, 28390), (35, 28438), (42, 28465), (48, 28489), (73, 28699), (74, 28705), (77, 28741), (78, 28747), (83, 28783), (85, 28792), (97, 28864), (105, 28948), (112, 29005), (117, 29026), (128, 29095), (137, 29158), (139, 29164), (141,

29179), (150, 29245), (151, 29251), (157, 29290), (158, 29293), (164, 29341), (165, 29344), (166, 29353), (174, 29410), (176, 29416), (178, 29431), (211, 29677),

Gene: Quisquilliae\_29 Start: 26250, Stop: 27683, Start Num: 13

Candidate Starts for Quisquilliae\_29:

(Start: 13 @26250 has 308 MA's), (23, 26307), (27, 26331), (32, 26355), (48, 26430), (74, 26646), (75, 26673), (77, 26682), (79, 26703), (83, 26724), (85, 26733), (94, 26796), (105, 26889), (112, 26946), (116, 26964), (136, 27096), (145, 27144), (150, 27186), (151, 27192), (152, 27195), (158, 27234), (162, 27267), (163, 27273), (164, 27282), (167, 27297), (172, 27342), (185, 27447), (191, 27483), (201, 27543), (203, 27552), (212, 27621),

Gene: Qyrzula\_28 Start: 27571, Stop: 29007, Start Num: 14

Candidate Starts for Qyrzula\_28:

(Start: 14 @27571 has 83 MA's), (20, 27604), (23, 27628), (24, 27631), (27, 27652), (31, 27673), (39, 27706), (49, 27751), (52, 27760), (62, 27823), (76, 28003), (77, 28006), (79, 28027), (84, 28051), (85, 28057), (87, 28075), (91, 28105), (92, 28108), (95, 28123), (97, 28129), (104, 28198), (108, 28252), (112, 28270), (116, 28288), (117, 28291), (122, 28315), (129, 28369), (134, 28408), (138, 28426), (142, 28447), (149, 28504), (150, 28510), (152, 28519), (161, 28576), (168, 28627), (170, 28636), (173, 28669), (175, 28678), (184, 28744), (187, 28786), (191, 28807), (194, 28819), (195, 28837), (203, 28876), (211, 28942), (212, 28945), (216, 28975),

Gene: RagingRooster\_29 Start: 26147, Stop: 27577, Start Num: 14

Candidate Starts for RagingRooster\_29:

(Start: 14 @26147 has 83 MA's), (23, 26204), (27, 26228), (28, 26237), (50, 26324), (67, 26474), (70, 26501), (77, 26576), (82, 26606), (85, 26627), (87, 26645), (97, 26699), (99, 26732), (117, 26861), (129, 26939), (130, 26951), (133, 26972), (135, 26987), (139, 26999), (150, 27080), (151, 27086), (159, 27134), (161, 27146), (166, 27188), (170, 27206), (173, 27239), (181, 27287), (186, 27347), (188, 27362), (191, 27377), (192, 27380), (202, 27443), (212, 27515), (216, 27545),

Gene: RawrgerThat\_26 Start: 26459, Stop: 27892, Start Num: 13

Candidate Starts for RawrgerThat\_26:

(Start: 13 @26459 has 308 MA's), (20, 26492), (23, 26516), (24, 26519), (28, 26549), (36, 26591), (38, 26597), (48, 26639), (57, 26672), (62, 26714), (68, 26801), (74, 26855), (77, 26891), (78, 26897), (83, 26933), (85, 26942), (92, 26993), (98, 27035), (109, 27146), (115, 27164), (116, 27173), (117, 27176), (121, 27197), (129, 27254), (130, 27266), (137, 27308), (139, 27314), (150, 27395), (151, 27401), (154, 27425), (158, 27443), (162, 27476), (164, 27491), (166, 27503), (176, 27566), (191, 27692), (202, 27758), (205, 27779), (211, 27827), (217, 27866), (220, 27887),

Gene: RedMaple\_28 Start: 26226, Stop: 27659, Start Num: 13

Candidate Starts for RedMaple\_28:

(Start: 13 @26226 has 308 MA's), (23, 26283), (27, 26307), (32, 26331), (48, 26406), (74, 26622), (75, 26649), (77, 26658), (79, 26679), (83, 26700), (85, 26709), (94, 26772), (105, 26865), (112, 26922), (116, 26940), (136, 27072), (145, 27120), (150, 27162), (151, 27168), (152, 27171), (158, 27210), (162, 27243), (163, 27249), (164, 27258), (167, 27273), (172, 27318), (185, 27423), (191, 27459), (201, 27519), (203, 27528), (212, 27597),

Gene: Reprobate\_28 Start: 26715, Stop: 28148, Start Num: 14

Candidate Starts for Reprobate\_28:

(Start: 14 @26715 has 83 MA's), (31, 26817), (41, 26868), (54, 26916), (61, 26967), (63, 26997), (77, 27147), (78, 27153), (83, 27189), (85, 27198), (112, 27411), (129, 27510), (130, 27522), (132, 27528), (139, 27570), (141, 27585), (142, 27588), (150, 27651), (157, 27696), (166, 27759), (168, 27768), (169, 27774), (174, 27816), (176, 27822), (196, 27981), (203, 28017), (216, 28116), (217, 28122),

Gene: Rhinoforte\_30 Start: 27596, Stop: 29032, Start Num: 14

Candidate Starts for Rhinoforte\_30:

(Start: 14 @27596 has 83 MA's), (20, 27629), (23, 27653), (24, 27656), (27, 27677), (31, 27698), (39, 27731), (49, 27776), (62, 27848), (76, 28028), (77, 28031), (79, 28052), (84, 28076), (85, 28082), (87, 28100), (91, 28130), (92, 28133), (95, 28148), (97, 28154), (104, 28223), (108, 28277), (112, 28295), (116, 28313), (117, 28316), (122, 28340), (129, 28394), (134, 28433), (138, 28451), (142, 28472), (149, 28529), (150, 28535), (152, 28544), (161, 28601), (168, 28652), (170, 28661), (173, 28694), (175, 28703), (184, 28769), (187, 28811), (191, 28832), (194, 28844), (195, 28862), (203, 28901), (211, 28967), (212, 28970), (216, 29000),

Gene: Rich\_27 Start: 26202, Stop: 27635, Start Num: 13

Candidate Starts for Rich\_27:

(Start: 13 @26202 has 308 MA's), (29, 26298), (31, 26304), (61, 26454), (63, 26484), (71, 26574), (77, 26634), (78, 26640), (85, 26685), (92, 26736), (117, 26919), (118, 26922), (129, 26997), (132, 27015), (139, 27057), (150, 27138), (166, 27246), (168, 27255), (169, 27261), (194, 27447), (196, 27468), (216, 27603), (217, 27609),

Gene: Ricotta\_28 Start: 25949, Stop: 27382, Start Num: 13

Candidate Starts for Ricotta\_28:

(Start: 13 @25949 has 308 MA's), (23, 26006), (27, 26030), (32, 26054), (48, 26129), (74, 26345), (75, 26372), (77, 26381), (79, 26402), (83, 26423), (85, 26432), (94, 26495), (105, 26588), (112, 26645), (116, 26663), (136, 26795), (145, 26843), (150, 26885), (151, 26891), (152, 26894), (158, 26933), (162, 26966), (163, 26972), (164, 26981), (167, 26996), (172, 27041), (185, 27146), (191, 27182), (201, 27242), (203, 27251), (212, 27320),

Gene: Riggan\_29 Start: 26208, Stop: 27641, Start Num: 13

Candidate Starts for Riggan\_29:

(Start: 13 @26208 has 308 MA's), (23, 26265), (27, 26289), (32, 26313), (48, 26388), (74, 26604), (75, 26631), (77, 26640), (79, 26661), (83, 26682), (85, 26691), (94, 26754), (105, 26847), (112, 26904), (116, 26922), (136, 27054), (145, 27102), (150, 27144), (151, 27150), (152, 27153), (158, 27192), (162, 27225), (163, 27231), (164, 27240), (167, 27255), (172, 27300), (185, 27405), (191, 27441), (201, 27501), (203, 27510), (212, 27579),

Gene: Rimu\_30 Start: 25957, Stop: 27390, Start Num: 13

Candidate Starts for Rimu\_30:

(Start: 13 @25957 has 308 MA's), (23, 26014), (27, 26038), (32, 26062), (48, 26137), (75, 26380), (77, 26389), (79, 26410), (83, 26431), (85, 26440), (94, 26503), (105, 26596), (106, 26599), (112, 26653), (116, 26671), (136, 26803), (145, 26851), (150, 26893), (151, 26899), (152, 26902), (158, 26941), (161, 26959), (162, 26974), (163, 26980), (164, 26989), (167, 27004), (172, 27049), (185, 27154), (191, 27190), (201, 27250), (203, 27259), (206, 27286), (212, 27328), (215, 27349),

Gene: Rinke\_31 Start: 28822, Stop: 30255, Start Num: 13

Candidate Starts for Rinke\_31:

(Start: 13 @28822 has 308 MA's), (23, 28879), (27, 28903), (32, 28927), (41, 28975), (44, 28987), (48, 29002), (56, 29026), (74, 29218), (76, 29251), (77, 29254), (78, 29260), (79, 29275), (83, 29296), (85, 29305), (92, 29356), (106, 29464), (111, 29515), (112, 29518), (117, 29539), (128, 29608), (129, 29617), (130, 29629), (132, 29635), (137, 29671), (139, 29677), (140, 29680), (147, 29734), (150, 29758), (154, 29788), (157, 29803), (158, 29806), (163, 29845), (164, 29854), (168, 29875), (174, 29923), (180, 29959), (181, 29965), (186, 30025), (194, 30067), (203, 30124), (216, 30223), (217, 30229), (218, 30232),

Gene: Rita1961\_29 Start: 26133, Stop: 27563, Start Num: 14

Candidate Starts for Rita1961\_29:

(Start: 14 @26133 has 83 MA's), (23, 26190), (27, 26214), (28, 26223), (50, 26310), (67, 26460), (70, 26487), (77, 26562), (82, 26592), (85, 26613), (87, 26631), (97, 26685), (99, 26718), (117, 26847), (129, 26925), (130, 26937), (133, 26958), (135, 26973), (139, 26985), (150, 27066), (151, 27072), (161, 27132), (166, 27174), (170, 27192), (173, 27225), (181, 27273), (186, 27333), (188, 27348), (191, 27363), (192, 27366), (212, 27501), (216, 27531),

Gene: Robyn\_28 Start: 25790, Stop: 27223, Start Num: 13

Candidate Starts for Robyn\_28:

(Start: 13 @25790 has 308 MA's), (23, 25847), (27, 25871), (32, 25895), (48, 25970), (74, 26186), (75, 26213), (77, 26222), (79, 26243), (83, 26264), (85, 26273), (94, 26336), (105, 26429), (112, 26486), (116, 26504), (136, 26636), (145, 26684), (150, 26726), (151, 26732), (152, 26735), (158, 26774), (162, 26807), (163, 26813), (164, 26822), (167, 26837), (172, 26882), (185, 26987), (191, 27023), (201, 27083), (203, 27092), (212, 27161),

Gene: Roliet\_29 Start: 26218, Stop: 27651, Start Num: 13

Candidate Starts for Roliet\_29:

(Start: 13 @26218 has 308 MA's), (23, 26275), (27, 26299), (32, 26323), (48, 26398), (74, 26614), (75, 26641), (77, 26650), (79, 26671), (83, 26692), (85, 26701), (94, 26764), (105, 26857), (112, 26914), (116, 26932), (136, 27064), (145, 27112), (150, 27154), (151, 27160), (152, 27163), (158, 27202), (161, 27220), (162, 27235), (163, 27241), (164, 27250), (167, 27265), (172, 27310), (185, 27415), (191, 27451), (201, 27511), (203, 27520), (212, 27589),

Gene: RomaT\_29 Start: 26923, Stop: 28353, Start Num: 14

Candidate Starts for RomaT\_29:

(Start: 14 @26923 has 83 MA's), (23, 26980), (27, 27004), (28, 27013), (50, 27100), (67, 27250), (70, 27277), (77, 27352), (82, 27382), (85, 27403), (87, 27421), (97, 27475), (99, 27508), (101, 27526), (117, 27637), (129, 27715), (130, 27727), (133, 27748), (135, 27763), (139, 27775), (150, 27856), (151, 27862), (161, 27922), (166, 27964), (170, 27982), (173, 28015), (181, 28063), (186, 28123), (188, 28138), (191, 28153), (192, 28156), (202, 28219), (212, 28291), (216, 28321),

Gene: Roscoe\_30 Start: 26456, Stop: 27889, Start Num: 13

Candidate Starts for Roscoe\_30:

(Start: 13 @26456 has 308 MA's), (23, 26513), (27, 26537), (32, 26561), (48, 26636), (74, 26852), (75, 26879), (77, 26888), (79, 26909), (83, 26930), (85, 26939), (94, 27002), (105, 27095), (112, 27152), (116, 27170), (136, 27302), (145, 27350), (150, 27392), (151, 27398), (152, 27401), (158, 27440), (162, 27473), (163, 27479), (164, 27488), (167, 27503), (172, 27548), (185, 27653), (191, 27689), (201, 27749), (203, 27758), (212, 27827),

Gene: Rosebush\_30 Start: 27603, Stop: 29039, Start Num: 14

Candidate Starts for Rosebush\_30:

(Start: 14 @27603 has 83 MA's), (20, 27636), (23, 27660), (24, 27663), (27, 27684), (31, 27705), (39, 27738), (49, 27783), (52, 27792), (62, 27855), (76, 28035), (77, 28038), (79, 28059), (84, 28083), (85, 28089), (87, 28107), (91, 28137), (92, 28140), (95, 28155), (97, 28161), (104, 28230), (108, 28284), (112, 28302), (116, 28320), (117, 28323), (122, 28347), (129, 28401), (134, 28440), (138, 28458), (142, 28479), (149, 28536), (150, 28542), (152, 28551), (161, 28608), (168, 28659), (170, 28668), (173, 28701), (175, 28710), (184, 28776), (187, 28818), (191, 28839), (194, 28851), (195, 28869), (203, 28908), (211, 28974), (212, 28977), (216, 29007),

Gene: Roy17\_29 Start: 25922, Stop: 27355, Start Num: 13

Candidate Starts for Roy17\_29:

(Start: 13 @25922 has 308 MA's), (23, 25979), (27, 26003), (32, 26027), (48, 26102), (74, 26318), (75, 26345), (77, 26354), (79, 26375), (83, 26396), (85, 26405), (94, 26468), (105, 26561), (112, 26618), (116, 26636), (136, 26768), (145, 26816), (150, 26858), (151, 26864), (152, 26867), (158, 26906),

(162, 26939), (163, 26945), (164, 26954), (167, 26969), (172, 27014), (185, 27119), (191, 27155), (201, 27215), (203, 27224), (212, 27293),

Gene: SDcharge11\_29 Start: 26196, Stop: 27629, Start Num: 13

Candidate Starts for SDcharge11\_29:

(Start: 13 @26196 has 308 MA's), (23, 26253), (27, 26277), (32, 26301), (48, 26376), (74, 26592), (75, 26619), (77, 26628), (79, 26649), (83, 26670), (85, 26679), (94, 26742), (105, 26835), (112, 26892), (116, 26910), (136, 27042), (145, 27090), (150, 27132), (151, 27138), (152, 27141), (158, 27180), (162, 27213), (163, 27219), (164, 27228), (167, 27243), (172, 27288), (185, 27393), (191, 27429), (201, 27489), (203, 27498), (212, 27567),

Gene: Sabella\_30 Start: 27480, Stop: 28916, Start Num: 14

Candidate Starts for Sabella\_30:

(Start: 14 @27480 has 83 MA's), (20, 27513), (23, 27537), (24, 27540), (27, 27561), (31, 27582), (39, 27615), (49, 27660), (52, 27669), (62, 27732), (76, 27912), (77, 27915), (79, 27936), (84, 27960), (85, 27966), (87, 27984), (91, 28014), (92, 28017), (95, 28032), (97, 28038), (104, 28107), (108, 28161), (112, 28179), (116, 28197), (117, 28200), (122, 28224), (129, 28278), (134, 28317), (138, 28335), (142, 28356), (149, 28413), (150, 28419), (152, 28428), (161, 28485), (168, 28536), (170, 28545), (173, 28578), (175, 28587), (184, 28653), (187, 28695), (191, 28716), (194, 28728), (195, 28746), (203, 28785), (211, 28851), (212, 28854), (216, 28884),

Gene: Saguaro\_29 Start: 28434, Stop: 29867, Start Num: 13

Candidate Starts for Saguaro\_29:

(Start: 13 @28434 has 308 MA's), (20, 28467), (24, 28494), (32, 28539), (35, 28563), (61, 28686), (73, 28824), (74, 28830), (75, 28857), (76, 28863), (77, 28866), (78, 28872), (85, 28917), (95, 28983), (105, 29073), (112, 29130), (116, 29148), (117, 29151), (128, 29220), (129, 29229), (135, 29277), (137, 29283), (139, 29289), (150, 29370), (151, 29376), (163, 29457), (164, 29466), (172, 29526), (175, 29538), (176, 29541), (203, 29736), (211, 29802), (216, 29835),

Gene: Samaymay\_29 Start: 26222, Stop: 27655, Start Num: 13

Candidate Starts for Samaymay\_29:

(Start: 13 @26222 has 308 MA's), (23, 26279), (27, 26303), (32, 26327), (48, 26402), (74, 26618), (75, 26645), (77, 26654), (79, 26675), (83, 26696), (85, 26705), (94, 26768), (105, 26861), (112, 26918), (116, 26936), (136, 27068), (145, 27116), (150, 27158), (151, 27164), (152, 27167), (158, 27206), (162, 27239), (163, 27245), (164, 27254), (167, 27269), (172, 27314), (185, 27419), (191, 27455), (201, 27515), (203, 27524), (212, 27593),

Gene: SassyCat97\_28 Start: 25928, Stop: 27361, Start Num: 13

Candidate Starts for SassyCat97\_28:

(Start: 13 @25928 has 308 MA's), (23, 25985), (27, 26009), (32, 26033), (48, 26108), (74, 26324), (75, 26351), (77, 26360), (79, 26381), (83, 26402), (85, 26411), (94, 26474), (105, 26567), (112, 26624), (116, 26642), (136, 26774), (145, 26822), (150, 26864), (151, 26870), (152, 26873), (158, 26912), (162, 26945), (163, 26951), (164, 26960), (167, 26975), (172, 27020), (185, 27125), (191, 27161), (201, 27221), (203, 27230), (212, 27299),

Gene: Schadenfreude\_28 Start: 25776, Stop: 27209, Start Num: 13

Candidate Starts for Schadenfreude\_28:

(Start: 13 @25776 has 308 MA's), (23, 25833), (27, 25857), (32, 25881), (48, 25956), (74, 26172), (75, 26199), (77, 26208), (79, 26229), (83, 26250), (85, 26259), (94, 26322), (105, 26415), (112, 26472), (116, 26490), (136, 26622), (145, 26670), (150, 26712), (151, 26718), (152, 26721), (158, 26760), (162, 26793), (163, 26799), (164, 26808), (167, 26823), (172, 26868), (185, 26973), (191, 27009), (201, 27069), (203, 27078), (212, 27147),

Gene: Schueller\_29 Start: 25943, Stop: 27376, Start Num: 13

Candidate Starts for Schueller\_29:

(Start: 13 @25943 has 308 MA's), (23, 26000), (27, 26024), (32, 26048), (48, 26123), (75, 26366), (77, 26375), (79, 26396), (83, 26417), (85, 26426), (94, 26489), (105, 26582), (106, 26585), (112, 26639), (116, 26657), (136, 26789), (145, 26837), (150, 26879), (151, 26885), (152, 26888), (158, 26927), (161, 26945), (162, 26960), (163, 26966), (164, 26975), (167, 26990), (172, 27035), (185, 27140), (191, 27176), (201, 27236), (203, 27245), (206, 27272), (212, 27314), (215, 27335),

Gene: Scoot17C\_29 Start: 26221, Stop: 27654, Start Num: 13

Candidate Starts for Scoot17C\_29:

(Start: 13 @26221 has 308 MA's), (23, 26278), (27, 26302), (32, 26326), (48, 26401), (74, 26617), (75, 26644), (77, 26653), (79, 26674), (83, 26695), (85, 26704), (94, 26767), (105, 26860), (112, 26917), (116, 26935), (136, 27067), (145, 27115), (150, 27157), (151, 27163), (152, 27166), (158, 27205), (162, 27238), (163, 27244), (164, 27253), (167, 27268), (172, 27313), (185, 27418), (191, 27454), (201, 27514), (203, 27523), (212, 27592),

Gene: Scrick\_29 Start: 25946, Stop: 27379, Start Num: 13

Candidate Starts for Scrick\_29:

(Start: 13 @25946 has 308 MA's), (23, 26003), (27, 26027), (32, 26051), (48, 26126), (74, 26342), (75, 26369), (77, 26378), (79, 26399), (83, 26420), (85, 26429), (94, 26492), (105, 26585), (112, 26642), (116, 26660), (136, 26792), (145, 26840), (150, 26882), (151, 26888), (152, 26891), (158, 26930), (162, 26963), (163, 26969), (164, 26978), (167, 26993), (172, 27038), (185, 27143), (191, 27179), (201, 27239), (203, 27248), (212, 27317),

Gene: Sejanus\_25 Start: 24460, Stop: 25887, Start Num: 14

Candidate Starts for Sejanus\_25:

(Start: 14 @24460 has 83 MA's), (20, 24493), (27, 24541), (30, 24556), (31, 24562), (40, 24604), (52, 24646), (57, 24667), (62, 24709), (75, 24877), (76, 24883), (85, 24937), (92, 24988), (95, 25003), (97, 25009), (100, 25051), (108, 25132), (112, 25150), (128, 25240), (130, 25261), (135, 25297), (137, 25303), (144, 25339), (150, 25390), (152, 25399), (153, 25417), (161, 25456), (168, 25507), (170, 25516), (173, 25549), (184, 25624), (191, 25687), (194, 25699), (212, 25825), (216, 25855),

Gene: Selr12\_29 Start: 25950, Stop: 27383, Start Num: 13

Candidate Starts for Selr12\_29:

(Start: 13 @25950 has 308 MA's), (23, 26007), (27, 26031), (32, 26055), (48, 26130), (74, 26346), (75, 26373), (77, 26382), (79, 26403), (83, 26424), (85, 26433), (94, 26496), (105, 26589), (112, 26646), (116, 26664), (136, 26796), (145, 26844), (150, 26886), (151, 26892), (152, 26895), (158, 26934), (162, 26967), (163, 26973), (164, 26982), (167, 26997), (172, 27042), (185, 27147), (191, 27183), (201, 27243), (203, 27252), (212, 27321),

Gene: Serendipitous\_27 Start: 26265, Stop: 27698, Start Num: 13

Candidate Starts for Serendipitous\_27:

(Start: 13 @26265 has 308 MA's), (31, 26367), (41, 26418), (63, 26547), (65, 26565), (77, 26697), (78, 26703), (83, 26739), (85, 26748), (92, 26799), (117, 26982), (129, 27060), (130, 27072), (139, 27120), (142, 27138), (150, 27201), (169, 27324), (194, 27510), (196, 27531), (216, 27666), (217, 27672),

Gene: Serendipity\_29 Start: 26246, Stop: 27679, Start Num: 13

Candidate Starts for Serendipity\_29:

(Start: 13 @26246 has 308 MA's), (23, 26303), (27, 26327), (32, 26351), (48, 26426), (74, 26642), (75, 26669), (77, 26678), (79, 26699), (83, 26720), (85, 26729), (94, 26792), (105, 26885), (112, 26942), (116, 26960), (136, 27092), (145, 27140), (150, 27182), (151, 27188), (152, 27191), (158, 27230), (162, 27263), (163, 27269), (164, 27278), (167, 27293), (172, 27338), (185, 27443), (191, 27479), (201, 27539), (203, 27548), (212, 27617),



Gene: Serpentine\_0029 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Serpentine\_0029:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Shatter\_25 Start: 23515, Stop: 25044, Start Num: 3

Candidate Starts for Shatter\_25:

(1, 22570), (2, 22669), (Start: 3 @23515 has 17 MA's), (7, 23548), (17, 23617), (21, 23635), (41, 23758), (46, 23779), (52, 23800), (77, 24043), (83, 24085), (85, 24094), (91, 24142), (115, 24316), (117, 24328), (128, 24397), (130, 24418), (149, 24541), (150, 24547), (153, 24574), (158, 24595), (162, 24628), (163, 24634), (164, 24643), (174, 24712), (179, 24742), (182, 24766), (186, 24814),

Gene: Sheila\_29 Start: 26216, Stop: 27649, Start Num: 13

Candidate Starts for Sheila\_29:

(Start: 13 @26216 has 308 MA's), (23, 26273), (27, 26297), (32, 26321), (48, 26396), (74, 26612), (75, 26639), (77, 26648), (79, 26669), (83, 26690), (85, 26699), (94, 26762), (105, 26855), (112, 26912), (116, 26930), (136, 27062), (145, 27110), (150, 27152), (151, 27158), (152, 27161), (158, 27200), (162, 27233), (163, 27239), (164, 27248), (167, 27263), (172, 27308), (185, 27413), (191, 27449), (201, 27509), (203, 27518), (212, 27587),

Gene: Shenyu\_28 Start: 26417, Stop: 27850, Start Num: 13

Candidate Starts for Shenyu\_28:

(Start: 13 @26417 has 308 MA's), (31, 26519), (61, 26669), (63, 26699), (65, 26717), (68, 26759), (77, 26849), (78, 26855), (83, 26891), (85, 26900), (96, 26969), (117, 27134), (139, 27272), (142, 27290), (150, 27353), (168, 27470), (169, 27476), (186, 27620), (194, 27662), (196, 27683), (216, 27818), (217, 27824),

Gene: ShiVal\_29 Start: 26220, Stop: 27653, Start Num: 13

Candidate Starts for ShiVal\_29:

(Start: 13 @26220 has 308 MA's), (23, 26277), (27, 26301), (32, 26325), (48, 26400), (74, 26616), (75, 26643), (77, 26652), (79, 26673), (83, 26694), (85, 26703), (94, 26766), (105, 26859), (112, 26916), (116, 26934), (136, 27066), (145, 27114), (150, 27156), (151, 27162), (152, 27165), (158, 27204), (162, 27237), (163, 27243), (164, 27252), (167, 27267), (172, 27312), (185, 27417), (191, 27453), (201, 27513), (203, 27522), (212, 27591),

Gene: Sigman\_29 Start: 26212, Stop: 27645, Start Num: 13

Candidate Starts for Sigman\_29:

(Start: 13 @26212 has 308 MA's), (23, 26269), (27, 26293), (32, 26317), (48, 26392), (74, 26608), (75, 26635), (77, 26644), (79, 26665), (83, 26686), (85, 26695), (94, 26758), (105, 26851), (112, 26908), (116, 26926), (136, 27058), (145, 27106), (150, 27148), (151, 27154), (152, 27157), (158, 27196), (162, 27229), (163, 27235), (164, 27244), (167, 27259), (172, 27304), (185, 27409), (191, 27445), (201, 27505), (203, 27514), (212, 27583),

Gene: SilverBell\_29 Start: 26242, Stop: 27675, Start Num: 13

Candidate Starts for SilverBell\_29:

(Start: 13 @26242 has 308 MA's), (23, 26299), (27, 26323), (32, 26347), (48, 26422), (74, 26638), (75, 26665), (77, 26674), (79, 26695), (83, 26716), (85, 26725), (94, 26788), (105, 26881), (112, 26938), (116, 26956), (136, 27088), (145, 27136), (150, 27178), (151, 27184), (152, 27187), (158, 27226), (162, 27259), (163, 27265), (164, 27274), (167, 27289), (172, 27334), (185, 27439), (191, 27475),

(201, 27535), (203, 27544), (212, 27613),

Gene: Simielle\_28 Start: 25915, Stop: 27348, Start Num: 13

Candidate Starts for Simielle\_28:

(Start: 13 @25915 has 308 MA's), (23, 25972), (27, 25996), (32, 26020), (48, 26095), (74, 26311), (75, 26338), (77, 26347), (79, 26368), (83, 26389), (85, 26398), (94, 26461), (105, 26554), (112, 26611), (116, 26629), (136, 26761), (145, 26809), (150, 26851), (151, 26857), (152, 26860), (158, 26899), (162, 26932), (163, 26938), (164, 26947), (167, 26962), (172, 27007), (185, 27112), (191, 27148), (201, 27208), (203, 27217), (212, 27286),

Gene: SirJeffery\_28 Start: 26460, Stop: 27893, Start Num: 13

Candidate Starts for SirJeffery\_28:

(5, 26394), (Start: 13 @26460 has 308 MA's), (29, 26556), (31, 26562), (41, 26613), (61, 26712), (63, 26742), (69, 26805), (77, 26892), (78, 26898), (83, 26934), (85, 26943), (92, 26994), (115, 27165), (117, 27177), (129, 27255), (139, 27315), (142, 27333), (150, 27396), (168, 27513), (169, 27519), (186, 27663), (194, 27705), (216, 27861), (217, 27867),

Gene: Sisko\_25 Start: 23995, Stop: 25524, Start Num: 3

Candidate Starts for Sisko\_25:

(Start: 3 @23995 has 17 MA's), (7, 24028), (46, 24259), (62, 24343), (77, 24523), (80, 24547), (83, 24565), (85, 24574), (91, 24622), (92, 24625), (97, 24646), (112, 24787), (115, 24796), (116, 24805), (117, 24808), (121, 24829), (128, 24877), (130, 24898), (135, 24934), (150, 25027), (151, 25033), (158, 25075), (162, 25108), (163, 25114), (164, 25123), (174, 25192), (182, 25246), (186, 25294), (212, 25462),

Gene: Skippy\_29 Start: 26210, Stop: 27643, Start Num: 13

Candidate Starts for Skippy\_29:

(Start: 13 @26210 has 308 MA's), (23, 26267), (27, 26291), (32, 26315), (48, 26390), (74, 26606), (75, 26633), (77, 26642), (79, 26663), (83, 26684), (85, 26693), (94, 26756), (105, 26849), (112, 26906), (116, 26924), (136, 27056), (145, 27104), (150, 27146), (151, 27152), (152, 27155), (158, 27194), (162, 27227), (163, 27233), (164, 27242), (167, 27257), (172, 27302), (185, 27407), (191, 27443), (201, 27503), (203, 27512), (212, 27581),

Gene: Slatt\_29 Start: 26235, Stop: 27668, Start Num: 13

Candidate Starts for Slatt\_29:

(Start: 13 @26235 has 308 MA's), (23, 26292), (27, 26316), (32, 26340), (48, 26415), (74, 26631), (75, 26658), (77, 26667), (79, 26688), (83, 26709), (85, 26718), (94, 26781), (105, 26874), (112, 26931), (116, 26949), (136, 27081), (145, 27129), (150, 27171), (151, 27177), (152, 27180), (158, 27219), (162, 27252), (163, 27258), (164, 27267), (167, 27282), (172, 27327), (185, 27432), (191, 27468), (201, 27528), (203, 27537), (212, 27606),

Gene: SlippinJimmy\_29 Start: 26911, Stop: 28341, Start Num: 14

Candidate Starts for SlippinJimmy\_29:

(Start: 14 @26911 has 83 MA's), (23, 26968), (27, 26992), (28, 27001), (50, 27088), (67, 27238), (70, 27265), (77, 27340), (82, 27370), (85, 27391), (87, 27409), (97, 27463), (99, 27496), (117, 27625), (129, 27703), (130, 27715), (133, 27736), (135, 27751), (139, 27763), (150, 27844), (151, 27850), (159, 27898), (161, 27910), (166, 27952), (170, 27970), (173, 28003), (181, 28051), (186, 28111), (188, 28126), (191, 28141), (192, 28144), (202, 28207), (212, 28279), (216, 28309),

Gene: Soile\_29 Start: 25942, Stop: 27375, Start Num: 13

Candidate Starts for Soile\_29:

(Start: 13 @25942 has 308 MA's), (23, 25999), (27, 26023), (32, 26047), (48, 26122), (74, 26338), (75, 26365), (77, 26374), (79, 26395), (83, 26416), (85, 26425), (94, 26488), (105, 26581), (106, 26584),

(112, 26638), (116, 26656), (136, 26788), (145, 26836), (150, 26878), (151, 26884), (152, 26887), (158, 26926), (162, 26959), (163, 26965), (164, 26974), (167, 26989), (172, 27034), (185, 27139), (191, 27175), (201, 27235), (203, 27244), (212, 27313),

Gene: Solosis\_28 Start: 25937, Stop: 27370, Start Num: 13

Candidate Starts for Solosis\_28:

(Start: 13 @25937 has 308 MA's), (23, 25994), (27, 26018), (32, 26042), (48, 26117), (74, 26333), (75, 26360), (77, 26369), (79, 26390), (83, 26411), (85, 26420), (94, 26483), (105, 26576), (112, 26633), (116, 26651), (136, 26783), (145, 26831), (150, 26873), (151, 26879), (152, 26882), (158, 26921), (162, 26954), (163, 26960), (164, 26969), (167, 26984), (172, 27029), (185, 27134), (191, 27170), (201, 27230), (203, 27239), (206, 27266), (212, 27308),

Gene: Sophia\_28 Start: 25937, Stop: 27370, Start Num: 13

Candidate Starts for Sophia\_28:

(Start: 13 @25937 has 308 MA's), (23, 25994), (27, 26018), (32, 26042), (48, 26117), (74, 26333), (75, 26360), (77, 26369), (79, 26390), (83, 26411), (85, 26420), (94, 26483), (105, 26576), (112, 26633), (116, 26651), (136, 26783), (145, 26831), (150, 26873), (151, 26879), (152, 26882), (158, 26921), (162, 26954), (163, 26960), (164, 26969), (167, 26984), (172, 27029), (185, 27134), (191, 27170), (201, 27230), (203, 27239), (212, 27308),

Gene: Soto\_29 Start: 26230, Stop: 27663, Start Num: 13

Candidate Starts for Soto\_29:

(Start: 13 @26230 has 308 MA's), (23, 26287), (27, 26311), (32, 26335), (48, 26410), (74, 26626), (75, 26653), (77, 26662), (79, 26683), (83, 26704), (85, 26713), (94, 26776), (105, 26869), (112, 26926), (116, 26944), (136, 27076), (145, 27124), (150, 27166), (151, 27172), (152, 27175), (158, 27214), (162, 27247), (163, 27253), (164, 27262), (167, 27277), (172, 27322), (185, 27427), (191, 27463), (201, 27523), (203, 27532), (212, 27601),

Gene: Sour\_29 Start: 27744, Stop: 29273, Start Num: 3

Candidate Starts for Sour\_29:

(Start: 3 @27744 has 17 MA's), (7, 27777), (21, 27864), (76, 28269), (77, 28272), (80, 28296), (83, 28314), (85, 28323), (86, 28326), (87, 28341), (91, 28371), (115, 28545), (116, 28554), (117, 28557), (128, 28626), (129, 28635), (130, 28647), (131, 28650), (150, 28776), (151, 28782), (155, 28812), (158, 28824), (162, 28857), (173, 28935), (179, 28971), (190, 29070), (192, 29076),

Gene: Spartan300\_29 Start: 26216, Stop: 27649, Start Num: 13

Candidate Starts for Spartan300\_29:

(Start: 13 @26216 has 308 MA's), (23, 26273), (27, 26297), (32, 26321), (48, 26396), (74, 26612), (75, 26639), (77, 26648), (79, 26669), (83, 26690), (85, 26699), (94, 26762), (105, 26855), (112, 26912), (116, 26930), (136, 27062), (145, 27110), (150, 27152), (151, 27158), (152, 27161), (158, 27200), (162, 27233), (163, 27239), (164, 27248), (167, 27263), (172, 27308), (185, 27413), (191, 27449), (201, 27509), (203, 27518), (212, 27587),

Gene: Squid\_29 Start: 25928, Stop: 27361, Start Num: 13

Candidate Starts for Squid\_29:

(Start: 13 @25928 has 308 MA's), (23, 25985), (27, 26009), (32, 26033), (48, 26108), (74, 26324), (75, 26351), (77, 26360), (79, 26381), (83, 26402), (85, 26411), (94, 26474), (105, 26567), (112, 26624), (116, 26642), (136, 26774), (145, 26822), (150, 26864), (151, 26870), (152, 26873), (158, 26912), (162, 26945), (163, 26951), (164, 26960), (167, 26975), (172, 27020), (185, 27125), (191, 27161), (201, 27221), (203, 27230), (212, 27299),

Gene: Squiggle\_29 Start: 25940, Stop: 27373, Start Num: 13

Candidate Starts for Squiggle\_29:

(Start: 13 @25940 has 308 MA's), (23, 25997), (27, 26021), (32, 26045), (48, 26120), (74, 26336), (75, 26363), (77, 26372), (79, 26393), (83, 26414), (85, 26423), (94, 26486), (105, 26579), (112, 26636), (116, 26654), (136, 26786), (145, 26834), (150, 26876), (151, 26882), (152, 26885), (158, 26924), (162, 26957), (163, 26963), (164, 26972), (167, 26987), (172, 27032), (185, 27137), (191, 27173), (201, 27233), (203, 27242), (212, 27311),

Gene: StAugustine\_33 Start: 29356, Stop: 30786, Start Num: 14

Candidate Starts for StAugustine\_33:

(Start: 14 @29356 has 83 MA's), (19, 29380), (23, 29413), (37, 29491), (76, 29785), (77, 29788), (81, 29815), (92, 29890), (94, 29902), (100, 29953), (105, 29992), (118, 30070), (120, 30082), (126, 30115), (128, 30136), (145, 30244), (146, 30247), (148, 30265), (162, 30370), (163, 30376), (172, 30445), (173, 30448), (174, 30454), (187, 30565), (191, 30586),

Gene: Stinger\_24 Start: 25034, Stop: 26467, Start Num: 13

Candidate Starts for Stinger\_24:

(Start: 13 @25034 has 308 MA's), (20, 25067), (23, 25091), (24, 25094), (28, 25124), (38, 25172), (48, 25214), (57, 25247), (62, 25289), (74, 25430), (76, 25463), (77, 25466), (78, 25472), (83, 25508), (85, 25517), (89, 25547), (92, 25568), (94, 25580), (101, 25640), (109, 25721), (115, 25739), (116, 25748), (117, 25751), (121, 25772), (128, 25820), (129, 25829), (130, 25841), (137, 25883), (139, 25889), (142, 25907), (143, 25910), (150, 25970), (151, 25976), (158, 26018), (162, 26051), (164, 26066), (166, 26078), (173, 26129), (176, 26141), (187, 26246), (191, 26267), (202, 26333), (204, 26345), (205, 26354), (211, 26402), (216, 26435), (217, 26441), (220, 26462),

Gene: StinkyVeggy\_30 Start: 26607, Stop: 28040, Start Num: 13

Candidate Starts for StinkyVeggy\_30:

(Start: 13 @26607 has 308 MA's), (31, 26709), (61, 26859), (63, 26889), (65, 26907), (68, 26949), (77, 27039), (78, 27045), (83, 27081), (85, 27090), (96, 27159), (117, 27324), (139, 27462), (142, 27480), (150, 27543), (168, 27660), (169, 27666), (186, 27810), (194, 27852), (196, 27873), (216, 28008), (217, 28014),

Gene: Struggle\_28 Start: 25778, Stop: 27211, Start Num: 13

Candidate Starts for Struggle\_28:

(Start: 13 @25778 has 308 MA's), (23, 25835), (27, 25859), (32, 25883), (48, 25958), (74, 26174), (75, 26201), (77, 26210), (79, 26231), (83, 26252), (85, 26261), (94, 26324), (105, 26417), (116, 26492), (136, 26624), (145, 26672), (150, 26714), (151, 26720), (152, 26723), (158, 26762), (161, 26780), (162, 26795), (163, 26801), (164, 26810), (167, 26825), (172, 26870), (185, 26975), (191, 27011), (201, 27071), (203, 27080), (206, 27107), (212, 27149), (215, 27170),

Gene: Suffolk\_29 Start: 26224, Stop: 27657, Start Num: 13

Candidate Starts for Suffolk\_29:

(Start: 13 @26224 has 308 MA's), (23, 26281), (27, 26305), (32, 26329), (48, 26404), (74, 26620), (75, 26647), (77, 26656), (79, 26677), (83, 26698), (85, 26707), (94, 26770), (105, 26863), (112, 26920), (116, 26938), (136, 27070), (145, 27118), (150, 27160), (151, 27166), (152, 27169), (158, 27208), (162, 27241), (163, 27247), (164, 27256), (167, 27271), (172, 27316), (185, 27421), (191, 27457), (201, 27517), (203, 27526), (212, 27595),

Gene: Suigeneris\_28 Start: 26463, Stop: 27896, Start Num: 13

Candidate Starts for Suigeneris\_28:

(5, 26397), (Start: 13 @26463 has 308 MA's), (29, 26559), (31, 26565), (41, 26616), (61, 26715), (63, 26745), (69, 26808), (77, 26895), (78, 26901), (83, 26937), (85, 26946), (92, 26997), (115, 27168), (117, 27180), (129, 27258), (139, 27318), (142, 27336), (150, 27399), (168, 27516), (169, 27522), (186, 27666), (194, 27708), (216, 27864), (217, 27870),

Gene: Surely\_29 Start: 26230, Stop: 27663, Start Num: 13

Candidate Starts for Surely\_29:

(Start: 13 @26230 has 308 MA's), (23, 26287), (27, 26311), (32, 26335), (48, 26410), (74, 26626), (75, 26653), (77, 26662), (79, 26683), (83, 26704), (85, 26713), (94, 26776), (105, 26869), (112, 26926), (116, 26944), (136, 27076), (145, 27124), (150, 27166), (151, 27172), (152, 27175), (158, 27214), (162, 27247), (163, 27253), (164, 27262), (167, 27277), (172, 27322), (185, 27427), (191, 27463), (201, 27523), (203, 27532), (212, 27601),

Gene: Swiphy\_30 Start: 26225, Stop: 27658, Start Num: 13

Candidate Starts for Swiphy\_30:

(Start: 13 @26225 has 308 MA's), (23, 26282), (27, 26306), (32, 26330), (48, 26405), (75, 26648), (77, 26657), (79, 26678), (83, 26699), (85, 26708), (94, 26771), (105, 26864), (106, 26867), (112, 26921), (116, 26939), (136, 27071), (145, 27119), (150, 27161), (151, 27167), (152, 27170), (158, 27209), (161, 27227), (162, 27242), (163, 27248), (164, 27257), (167, 27272), (172, 27317), (185, 27422), (191, 27458), (201, 27518), (203, 27527), (206, 27554), (212, 27596), (215, 27617),

Gene: Swish\_29 Start: 26213, Stop: 27646, Start Num: 13

Candidate Starts for Swish\_29:

(Start: 13 @26213 has 308 MA's), (23, 26270), (27, 26294), (32, 26318), (48, 26393), (74, 26609), (75, 26636), (77, 26645), (79, 26666), (83, 26687), (85, 26696), (94, 26759), (105, 26852), (112, 26909), (116, 26927), (136, 27059), (145, 27107), (150, 27149), (151, 27155), (152, 27158), (158, 27197), (162, 27230), (163, 27236), (164, 27245), (167, 27260), (172, 27305), (185, 27410), (191, 27446), (201, 27506), (203, 27515), (212, 27584),

Gene: SynergyX\_29 Start: 26147, Stop: 27577, Start Num: 14

Candidate Starts for SynergyX\_29:

(Start: 14 @26147 has 83 MA's), (23, 26204), (27, 26228), (28, 26237), (50, 26324), (67, 26474), (70, 26501), (77, 26576), (82, 26606), (85, 26627), (87, 26645), (97, 26699), (99, 26732), (117, 26861), (129, 26939), (130, 26951), (133, 26972), (135, 26987), (139, 26999), (150, 27080), (151, 27086), (159, 27134), (161, 27146), (166, 27188), (170, 27206), (173, 27239), (181, 27287), (186, 27347), (188, 27362), (191, 27377), (192, 27380), (202, 27443), (212, 27515), (216, 27545),

Gene: TA17A\_30 Start: 27470, Stop: 28906, Start Num: 14

Candidate Starts for TA17A\_30:

(Start: 14 @27470 has 83 MA's), (20, 27503), (23, 27527), (24, 27530), (27, 27551), (31, 27572), (39, 27605), (49, 27650), (52, 27659), (62, 27722), (76, 27902), (77, 27905), (79, 27926), (84, 27950), (85, 27956), (87, 27974), (91, 28004), (92, 28007), (95, 28022), (97, 28028), (104, 28097), (108, 28151), (112, 28169), (116, 28187), (117, 28190), (122, 28214), (129, 28268), (134, 28307), (138, 28325), (142, 28346), (149, 28403), (150, 28409), (152, 28418), (161, 28475), (168, 28526), (170, 28535), (173, 28568), (175, 28577), (184, 28643), (187, 28685), (191, 28706), (194, 28718), (195, 28736), (203, 28775), (211, 28841), (212, 28844), (216, 28874),

Gene: TPA2\_34 Start: 28281, Stop: 29273, Start Num: 77

Candidate Starts for TPA2\_34:

(Start: 4 @27750 has 2 MA's), (51, 28038), (53, 28044), (66, 28155), (77, 28281), (78, 28287), (88, 28359), (91, 28380), (95, 28398), (97, 28404), (117, 28566), (123, 28596), (128, 28635), (130, 28656), (132, 28662), (142, 28722), (143, 28725), (149, 28779), (162, 28860), (172, 28935), (173, 28938), (174, 28944), (186, 29043), (208, 29178), (211, 29208), (216, 29241),

Gene: TallGrassMM\_29 Start: 25852, Stop: 27285, Start Num: 13

Candidate Starts for TallGrassMM\_29:

(Start: 13 @25852 has 308 MA's), (23, 25909), (27, 25933), (32, 25957), (48, 26032), (74, 26248), (75, 26275), (77, 26284), (79, 26305), (83, 26326), (85, 26335), (94, 26398), (105, 26491), (112, 26548),

(116, 26566), (136, 26698), (145, 26746), (150, 26788), (151, 26794), (152, 26797), (158, 26836), (162, 26869), (163, 26875), (164, 26884), (167, 26899), (172, 26944), (185, 27049), (191, 27085), (201, 27145), (203, 27154), (212, 27223),

Gene: Taptic\_22 Start: 24689, Stop: 26125, Start Num: 15

Candidate Starts for Taptic\_22:

(Start: 15 @24689 has 8 MA's), (19, 24710), (20, 24719), (49, 24866), (52, 24875), (64, 24977), (66, 24995), (70, 25046), (72, 25076), (75, 25112), (77, 25121), (80, 25145), (82, 25151), (92, 25223), (112, 25385), (114, 25391), (116, 25403), (117, 25406), (129, 25484), (130, 25496), (135, 25532), (140, 25547), (142, 25565), (150, 25628), (151, 25634), (153, 25655), (157, 25673), (158, 25676), (161, 25694), (166, 25736), (168, 25745), (170, 25754), (173, 25787), (182, 25847), (184, 25862), (186, 25895), (191, 25925), (211, 26060), (212, 26063),

Gene: Telesworld\_28 Start: 25924, Stop: 27357, Start Num: 13

Candidate Starts for Telesworld\_28:

(Start: 13 @25924 has 308 MA's), (23, 25981), (27, 26005), (32, 26029), (48, 26104), (74, 26320), (75, 26347), (77, 26356), (79, 26377), (83, 26398), (85, 26407), (94, 26470), (105, 26563), (112, 26620), (116, 26638), (136, 26770), (145, 26818), (150, 26860), (151, 26866), (152, 26869), (158, 26908), (162, 26941), (163, 26947), (164, 26956), (167, 26971), (172, 27016), (185, 27121), (191, 27157), (201, 27217), (203, 27226), (212, 27295),

Gene: Thonko\_27 Start: 24655, Stop: 26097, Start Num: 14

Candidate Starts for Thonko\_27:

(Start: 14 @24655 has 83 MA's), (36, 24796), (48, 24844), (60, 24910), (75, 25087), (77, 25096), (87, 25165), (105, 25303), (117, 25381), (129, 25459), (130, 25471), (132, 25477), (150, 25600), (151, 25606), (162, 25681), (166, 25708), (168, 25717), (173, 25759), (176, 25771), (185, 25861), (186, 25867), (190, 25894),

Gene: Thora\_29 Start: 26229, Stop: 27662, Start Num: 13

Candidate Starts for Thora\_29:

(Start: 13 @26229 has 308 MA's), (23, 26286), (27, 26310), (32, 26334), (48, 26409), (74, 26625), (75, 26652), (77, 26661), (79, 26682), (83, 26703), (85, 26712), (94, 26775), (105, 26868), (112, 26925), (116, 26943), (136, 27075), (145, 27123), (150, 27165), (151, 27171), (152, 27174), (158, 27213), (162, 27246), (163, 27252), (164, 27261), (167, 27276), (172, 27321), (185, 27426), (191, 27462), (201, 27522), (203, 27531), (212, 27600),

Gene: ThreeOh3D2\_29 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for ThreeOh3D2\_29:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Thunderbird\_28 Start: 25933, Stop: 27366, Start Num: 13

Candidate Starts for Thunderbird\_28:

(Start: 13 @25933 has 308 MA's), (23, 25990), (27, 26014), (32, 26038), (48, 26113), (75, 26356), (77, 26365), (79, 26386), (83, 26407), (85, 26416), (94, 26479), (105, 26572), (106, 26575), (116, 26647), (136, 26779), (145, 26827), (150, 26869), (151, 26875), (152, 26878), (158, 26917), (161, 26935), (162, 26950), (163, 26956), (164, 26965), (167, 26980), (172, 27025), (185, 27130), (191, 27166), (201, 27226), (203, 27235), (206, 27262), (212, 27304), (215, 27325),

Gene: Timmi\_28 Start: 25938, Stop: 27371, Start Num: 13

Candidate Starts for Timmi\_28:

(Start: 13 @25938 has 308 MA's), (23, 25995), (27, 26019), (32, 26043), (48, 26118), (74, 26334), (75, 26361), (77, 26370), (79, 26391), (83, 26412), (85, 26421), (94, 26484), (105, 26577), (112, 26634), (116, 26652), (136, 26784), (145, 26832), (150, 26874), (151, 26880), (152, 26883), (158, 26922), (162, 26955), (163, 26961), (164, 26970), (167, 26985), (172, 27030), (185, 27135), (191, 27171), (201, 27231), (203, 27240), (212, 27309),

Gene: Tinciduntolum\_31 Start: 27608, Stop: 29044, Start Num: 14

Candidate Starts for Tinciduntolum\_31:

(Start: 14 @27608 has 83 MA's), (20, 27641), (23, 27665), (24, 27668), (27, 27689), (31, 27710), (39, 27743), (49, 27788), (52, 27797), (62, 27860), (76, 28040), (77, 28043), (79, 28064), (84, 28088), (85, 28094), (87, 28112), (91, 28142), (92, 28145), (95, 28160), (97, 28166), (104, 28235), (108, 28289), (112, 28307), (116, 28325), (117, 28328), (122, 28352), (129, 28406), (134, 28445), (138, 28463), (142, 28484), (149, 28541), (150, 28547), (152, 28556), (161, 28613), (168, 28664), (170, 28673), (173, 28706), (175, 28715), (184, 28781), (187, 28823), (191, 28844), (194, 28856), (195, 28874), (203, 28913), (211, 28979), (212, 28982), (216, 29012),

Gene: TomBombadil\_29 Start: 26223, Stop: 27656, Start Num: 13

Candidate Starts for TomBombadil\_29:

(Start: 13 @26223 has 308 MA's), (23, 26280), (27, 26304), (32, 26328), (48, 26403), (74, 26619), (75, 26646), (77, 26655), (79, 26676), (83, 26697), (85, 26706), (94, 26769), (105, 26862), (112, 26919), (116, 26937), (136, 27069), (145, 27117), (150, 27159), (151, 27165), (152, 27168), (158, 27207), (162, 27240), (163, 27246), (164, 27255), (167, 27270), (172, 27315), (185, 27420), (191, 27456), (201, 27516), (203, 27525), (212, 27594),

Gene: Tomlarah\_29 Start: 26214, Stop: 27647, Start Num: 13

Candidate Starts for Tomlarah\_29:

(Start: 13 @26214 has 308 MA's), (23, 26271), (27, 26295), (32, 26319), (48, 26394), (74, 26610), (75, 26637), (77, 26646), (79, 26667), (83, 26688), (85, 26697), (94, 26760), (105, 26853), (112, 26910), (116, 26928), (136, 27060), (145, 27108), (150, 27150), (151, 27156), (152, 27159), (158, 27198), (162, 27231), (163, 27237), (164, 27246), (167, 27261), (172, 27306), (185, 27411), (191, 27447), (201, 27507), (203, 27516), (212, 27585),

Gene: Toni\_28 Start: 25930, Stop: 27363, Start Num: 13

Candidate Starts for Toni\_28:

(Start: 13 @25930 has 308 MA's), (23, 25987), (27, 26011), (32, 26035), (48, 26110), (74, 26326), (75, 26353), (77, 26362), (79, 26383), (83, 26404), (85, 26413), (94, 26476), (105, 26569), (112, 26626), (116, 26644), (136, 26776), (145, 26824), (150, 26866), (151, 26872), (152, 26875), (158, 26914), (162, 26947), (163, 26953), (164, 26962), (167, 26977), (172, 27022), (185, 27127), (191, 27163), (201, 27223), (203, 27232), (212, 27301),

Gene: Tooj\_29 Start: 26284, Stop: 27717, Start Num: 13

Candidate Starts for Tooj\_29:

(Start: 13 @26284 has 308 MA's), (23, 26341), (27, 26365), (32, 26389), (48, 26464), (74, 26680), (75, 26707), (77, 26716), (79, 26737), (83, 26758), (85, 26767), (94, 26830), (105, 26923), (112, 26980), (116, 26998), (136, 27130), (145, 27178), (150, 27220), (151, 27226), (152, 27229), (158, 27268), (162, 27301), (163, 27307), (164, 27316), (167, 27331), (172, 27376), (185, 27481), (191, 27517), (201, 27577), (203, 27586), (212, 27655),

Gene: Tres\_30 Start: 27483, Stop: 28919, Start Num: 14

Candidate Starts for Tres\_30:

(Start: 14 @27483 has 83 MA's), (20, 27516), (23, 27540), (24, 27543), (27, 27564), (31, 27585), (39, 27618), (49, 27663), (52, 27672), (62, 27735), (76, 27915), (77, 27918), (79, 27939), (84, 27963), (85,

27969), (87, 27987), (91, 28017), (92, 28020), (95, 28035), (97, 28041), (104, 28110), (108, 28164), (112, 28182), (116, 28200), (117, 28203), (122, 28227), (129, 28281), (134, 28320), (138, 28338), (142, 28359), (149, 28416), (150, 28422), (152, 28431), (161, 28488), (168, 28539), (170, 28548), (173, 28581), (175, 28590), (184, 28656), (187, 28698), (191, 28719), (194, 28731), (195, 28749), (203, 28788), (211, 28854), (212, 28857), (216, 28887),

Gene: True\_28 Start: 25927, Stop: 27360, Start Num: 13

Candidate Starts for True\_28:

(Start: 13 @25927 has 308 MA's), (23, 25984), (27, 26008), (32, 26032), (48, 26107), (74, 26323), (75, 26350), (77, 26359), (79, 26380), (83, 26401), (85, 26410), (94, 26473), (105, 26566), (112, 26623), (116, 26641), (136, 26773), (145, 26821), (150, 26863), (151, 26869), (152, 26872), (158, 26911), (162, 26944), (163, 26950), (164, 26959), (167, 26974), (172, 27019), (185, 27124), (191, 27160), (201, 27220), (203, 27229), (212, 27298),

Gene: Trypo\_29 Start: 26222, Stop: 27655, Start Num: 13

Candidate Starts for Trypo\_29:

(Start: 13 @26222 has 308 MA's), (23, 26279), (27, 26303), (32, 26327), (48, 26402), (75, 26645), (77, 26654), (79, 26675), (83, 26696), (85, 26705), (94, 26768), (105, 26861), (106, 26864), (112, 26918), (116, 26936), (136, 27068), (145, 27116), (150, 27158), (151, 27164), (152, 27167), (158, 27206), (161, 27224), (162, 27239), (163, 27245), (164, 27254), (167, 27269), (172, 27314), (185, 27419), (191, 27455), (201, 27515), (203, 27524), (206, 27551), (212, 27593), (215, 27614),

Gene: Tydolla\_29 Start: 26884, Stop: 28314, Start Num: 14

Candidate Starts for Tydolla\_29:

(Start: 14 @26884 has 83 MA's), (23, 26941), (27, 26965), (28, 26974), (50, 27061), (70, 27238), (75, 27304), (77, 27313), (82, 27343), (85, 27364), (87, 27382), (97, 27436), (117, 27598), (129, 27676), (130, 27688), (133, 27709), (135, 27724), (139, 27736), (150, 27817), (151, 27823), (159, 27871), (161, 27883), (166, 27925), (170, 27943), (173, 27976), (181, 28024), (186, 28084), (188, 28099), (191, 28114), (192, 28117), (202, 28180), (212, 28252), (216, 28282),

Gene: TyrionL\_28 Start: 25786, Stop: 27219, Start Num: 13

Candidate Starts for TyrionL\_28:

(Start: 13 @25786 has 308 MA's), (23, 25843), (27, 25867), (32, 25891), (48, 25966), (75, 26209), (77, 26218), (79, 26239), (83, 26260), (85, 26269), (94, 26332), (105, 26425), (106, 26428), (112, 26482), (116, 26500), (136, 26632), (145, 26680), (150, 26722), (151, 26728), (152, 26731), (158, 26770), (161, 26788), (162, 26803), (163, 26809), (164, 26818), (167, 26833), (172, 26878), (185, 26983), (191, 27019), (201, 27079), (203, 27088), (206, 27115), (212, 27157), (215, 27178),

Gene: UAch1\_29 Start: 26236, Stop: 27669, Start Num: 13

Candidate Starts for UAch1\_29:

(Start: 13 @26236 has 308 MA's), (23, 26293), (27, 26317), (32, 26341), (48, 26416), (74, 26632), (75, 26659), (77, 26668), (79, 26689), (83, 26710), (85, 26719), (94, 26782), (105, 26875), (112, 26932), (116, 26950), (136, 27082), (145, 27130), (150, 27172), (151, 27178), (152, 27181), (158, 27220), (162, 27253), (163, 27259), (164, 27268), (167, 27283), (172, 27328), (185, 27433), (191, 27469), (201, 27529), (203, 27538), (212, 27607),

Gene: UncleHowie\_29 Start: 25926, Stop: 27359, Start Num: 13

Candidate Starts for UncleHowie\_29:

(Start: 13 @25926 has 308 MA's), (23, 25983), (27, 26007), (32, 26031), (48, 26106), (74, 26322), (75, 26349), (77, 26358), (79, 26379), (83, 26400), (85, 26409), (94, 26472), (105, 26565), (112, 26622), (116, 26640), (136, 26772), (145, 26820), (150, 26862), (151, 26868), (152, 26871), (158, 26910), (162, 26943), (163, 26949), (164, 26958), (167, 26973), (172, 27018), (185, 27123), (191, 27159), (201, 27219), (203, 27228), (212, 27297),



Gene: Usavi\_29 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Usavi\_29:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Vaishali24\_28 Start: 25888, Stop: 27321, Start Num: 13

Candidate Starts for Vaishali24\_28:

(Start: 13 @25888 has 308 MA's), (23, 25945), (27, 25969), (32, 25993), (48, 26068), (74, 26284), (75, 26311), (77, 26320), (79, 26341), (83, 26362), (85, 26371), (94, 26434), (105, 26527), (112, 26584), (116, 26602), (136, 26734), (145, 26782), (150, 26824), (151, 26830), (152, 26833), (158, 26872), (162, 26905), (163, 26911), (164, 26920), (167, 26935), (172, 26980), (185, 27085), (191, 27121), (201, 27181), (203, 27190), (212, 27259),

Gene: Valjean\_29 Start: 26219, Stop: 27652, Start Num: 13

Candidate Starts for Valjean\_29:

(Start: 13 @26219 has 308 MA's), (23, 26276), (27, 26300), (32, 26324), (48, 26399), (74, 26615), (75, 26642), (77, 26651), (79, 26672), (83, 26693), (85, 26702), (94, 26765), (105, 26858), (112, 26915), (116, 26933), (136, 27065), (145, 27113), (150, 27155), (151, 27161), (152, 27164), (158, 27203), (162, 27236), (163, 27242), (164, 27251), (167, 27266), (172, 27311), (185, 27416), (191, 27452), (201, 27512), (203, 27521), (212, 27590),

Gene: Vaticameos\_29 Start: 25917, Stop: 27350, Start Num: 13

Candidate Starts for Vaticameos\_29:

(Start: 13 @25917 has 308 MA's), (23, 25974), (27, 25998), (32, 26022), (48, 26097), (74, 26313), (75, 26340), (77, 26349), (79, 26370), (83, 26391), (85, 26400), (94, 26463), (105, 26556), (112, 26613), (116, 26631), (136, 26763), (145, 26811), (150, 26853), (151, 26859), (152, 26862), (158, 26901), (162, 26934), (163, 26940), (164, 26949), (167, 26964), (172, 27009), (185, 27114), (191, 27150), (201, 27210), (203, 27219), (212, 27288),

Gene: Veritas\_28 Start: 25789, Stop: 27222, Start Num: 13

Candidate Starts for Veritas\_28:

(Start: 13 @25789 has 308 MA's), (23, 25846), (27, 25870), (32, 25894), (48, 25969), (75, 26212), (77, 26221), (79, 26242), (83, 26263), (85, 26272), (94, 26335), (105, 26428), (112, 26485), (116, 26503), (136, 26635), (145, 26683), (150, 26725), (151, 26731), (152, 26734), (158, 26773), (161, 26791), (162, 26806), (163, 26812), (164, 26821), (167, 26836), (172, 26881), (185, 26986), (191, 27022), (201, 27082), (203, 27091), (206, 27118), (212, 27160), (215, 27181),

Gene: Vic9\_31 Start: 27927, Stop: 29363, Start Num: 14

Candidate Starts for Vic9\_31:

(Start: 14 @27927 has 83 MA's), (20, 27960), (23, 27984), (24, 27987), (27, 28008), (31, 28029), (39, 28062), (49, 28107), (52, 28116), (62, 28179), (76, 28359), (77, 28362), (79, 28383), (84, 28407), (85, 28413), (87, 28431), (91, 28461), (92, 28464), (95, 28479), (97, 28485), (104, 28554), (108, 28608), (112, 28626), (116, 28644), (117, 28647), (122, 28671), (129, 28725), (134, 28764), (138, 28782), (142, 28803), (149, 28860), (150, 28866), (152, 28875), (161, 28932), (168, 28983), (170, 28992), (173, 29025), (175, 29034), (184, 29100), (187, 29142), (191, 29163), (194, 29175), (195, 29193), (202, 29229), (203, 29232), (211, 29298), (212, 29301), (216, 29331),

Gene: Vincenzo\_27 Start: 27172, Stop: 28605, Start Num: 13

Candidate Starts for Vincenzo\_27:

(Start: 13 @27172 has 308 MA's), (23, 27229), (28, 27262), (38, 27310), (44, 27337), (48, 27352), (62, 27427), (63, 27454), (68, 27514), (74, 27568), (76, 27601), (77, 27604), (89, 27685), (92, 27706), (98, 27748), (105, 27811), (109, 27859), (116, 27886), (117, 27889), (128, 27958), (129, 27967), (130, 27979), (132, 27985), (139, 28027), (142, 28045), (145, 28066), (150, 28108), (151, 28114), (157, 28153), (162, 28189), (173, 28267), (176, 28279), (187, 28384), (191, 28405), (202, 28471), (211, 28540), (212, 28543), (216, 28573), (217, 28579), (219, 28588), (220, 28600),

Gene: VioletZ\_26 Start: 26533, Stop: 27966, Start Num: 13

Candidate Starts for VioletZ\_26:

(Start: 13 @26533 has 308 MA's), (20, 26566), (23, 26590), (24, 26593), (28, 26623), (36, 26665), (38, 26671), (48, 26713), (57, 26746), (62, 26788), (71, 26905), (74, 26929), (77, 26965), (78, 26971), (83, 27007), (85, 27016), (92, 27067), (98, 27109), (109, 27220), (115, 27238), (116, 27247), (117, 27250), (121, 27271), (129, 27328), (130, 27340), (137, 27382), (139, 27388), (150, 27469), (151, 27475), (154, 27499), (158, 27517), (162, 27550), (164, 27565), (166, 27577), (173, 27628), (174, 27634), (176, 27640), (187, 27745), (190, 27763), (191, 27766), (202, 27832), (205, 27853), (211, 27901), (217, 27940), (220, 27961),

Gene: Virapocalypse\_29 Start: 26213, Stop: 27646, Start Num: 13

Candidate Starts for Virapocalypse\_29:

(Start: 13 @26213 has 308 MA's), (23, 26270), (27, 26294), (32, 26318), (48, 26393), (74, 26609), (75, 26636), (77, 26645), (79, 26666), (83, 26687), (85, 26696), (94, 26759), (105, 26852), (112, 26909), (116, 26927), (136, 27059), (145, 27107), (150, 27149), (151, 27155), (152, 27158), (158, 27197), (161, 27215), (162, 27230), (163, 27236), (164, 27245), (167, 27260), (172, 27305), (185, 27410), (191, 27446), (201, 27506), (203, 27515), (212, 27584),

Gene: Virgeve\_28 Start: 25988, Stop: 27421, Start Num: 13

Candidate Starts for Virgeve\_28:

(Start: 13 @25988 has 308 MA's), (23, 26045), (27, 26069), (32, 26093), (48, 26168), (74, 26384), (75, 26411), (77, 26420), (79, 26441), (83, 26462), (85, 26471), (94, 26534), (105, 26627), (116, 26702), (136, 26834), (145, 26882), (150, 26924), (151, 26930), (152, 26933), (158, 26972), (161, 26990), (162, 27005), (163, 27011), (164, 27020), (167, 27035), (172, 27080), (185, 27185), (191, 27221), (201, 27281), (203, 27290), (206, 27317), (212, 27359), (215, 27380),

Gene: Vista\_29 Start: 26227, Stop: 27660, Start Num: 13

Candidate Starts for Vista\_29:

(Start: 13 @26227 has 308 MA's), (23, 26284), (27, 26308), (32, 26332), (48, 26407), (74, 26623), (75, 26650), (77, 26659), (79, 26680), (83, 26701), (85, 26710), (94, 26773), (105, 26866), (112, 26923), (116, 26941), (136, 27073), (145, 27121), (150, 27163), (151, 27169), (152, 27172), (158, 27211), (162, 27244), (163, 27250), (164, 27259), (167, 27274), (172, 27319), (185, 27424), (191, 27460), (201, 27520), (203, 27529), (212, 27598),

Gene: Vivaldi\_29 Start: 26253, Stop: 27686, Start Num: 13

Candidate Starts for Vivaldi\_29:

(Start: 13 @26253 has 308 MA's), (23, 26310), (27, 26334), (32, 26358), (48, 26433), (74, 26649), (75, 26676), (77, 26685), (79, 26706), (83, 26727), (85, 26736), (94, 26799), (105, 26892), (112, 26949), (116, 26967), (136, 27099), (145, 27147), (150, 27189), (151, 27195), (152, 27198), (158, 27237), (162, 27270), (163, 27276), (164, 27285), (167, 27300), (172, 27345), (185, 27450), (191, 27486), (201, 27546), (203, 27555), (212, 27624),

Gene: Vortex\_29 Start: 25933, Stop: 27366, Start Num: 13

Candidate Starts for Vortex\_29:

(Start: 13 @25933 has 308 MA's), (23, 25990), (27, 26014), (32, 26038), (48, 26113), (74, 26329), (75, 26356), (77, 26365), (79, 26386), (83, 26407), (85, 26416), (94, 26479), (105, 26572), (112, 26629),

(116, 26647), (136, 26779), (145, 26827), (150, 26869), (151, 26875), (152, 26878), (158, 26917), (162, 26950), (163, 26956), (164, 26965), (167, 26980), (172, 27025), (185, 27130), (191, 27166), (201, 27226), (203, 27235), (212, 27304),

Gene: Waleliano\_26 Start: 26460, Stop: 27893, Start Num: 13

Candidate Starts for Waleliano\_26:

(Start: 13 @26460 has 308 MA's), (20, 26493), (23, 26517), (24, 26520), (28, 26550), (36, 26592), (38, 26598), (48, 26640), (57, 26673), (62, 26715), (71, 26832), (74, 26856), (77, 26892), (78, 26898), (83, 26934), (85, 26943), (92, 26994), (98, 27036), (109, 27147), (115, 27165), (116, 27174), (117, 27177), (121, 27198), (129, 27255), (130, 27267), (137, 27309), (139, 27315), (150, 27396), (151, 27402), (154, 27426), (157, 27441), (158, 27444), (162, 27477), (164, 27492), (166, 27504), (173, 27555), (174, 27561), (176, 27567), (187, 27672), (190, 27690), (191, 27693), (202, 27759), (205, 27780), (211, 27828), (217, 27867), (220, 27888),

Gene: Wallhey\_28 Start: 25790, Stop: 27223, Start Num: 13

Candidate Starts for Wallhey\_28:

(Start: 13 @25790 has 308 MA's), (23, 25847), (27, 25871), (32, 25895), (48, 25970), (75, 26213), (77, 26222), (79, 26243), (83, 26264), (85, 26273), (94, 26336), (105, 26429), (106, 26432), (112, 26486), (116, 26504), (136, 26636), (145, 26684), (150, 26726), (151, 26732), (152, 26735), (158, 26774), (161, 26792), (162, 26807), (163, 26813), (164, 26822), (167, 26837), (172, 26882), (185, 26987), (191, 27023), (201, 27083), (203, 27092), (206, 27119), (212, 27161), (215, 27182),

Gene: Waterdiva\_29 Start: 26219, Stop: 27652, Start Num: 13

Candidate Starts for Waterdiva\_29:

(Start: 13 @26219 has 308 MA's), (23, 26276), (27, 26300), (32, 26324), (48, 26399), (74, 26615), (75, 26642), (77, 26651), (79, 26672), (83, 26693), (85, 26702), (94, 26765), (105, 26858), (112, 26915), (116, 26933), (136, 27065), (145, 27113), (150, 27155), (151, 27161), (152, 27164), (158, 27203), (162, 27236), (163, 27242), (164, 27251), (167, 27266), (172, 27311), (185, 27416), (191, 27452), (201, 27512), (203, 27521), (212, 27590),

Gene: Weher20\_29 Start: 26218, Stop: 27651, Start Num: 13

Candidate Starts for Weher20\_29:

(Start: 13 @26218 has 308 MA's), (23, 26275), (27, 26299), (32, 26323), (48, 26398), (75, 26641), (77, 26650), (79, 26671), (83, 26692), (85, 26701), (94, 26764), (105, 26857), (112, 26914), (116, 26932), (145, 27112), (150, 27154), (151, 27160), (152, 27163), (158, 27202), (161, 27220), (162, 27235), (163, 27241), (164, 27250), (167, 27265), (172, 27310), (185, 27415), (191, 27451), (201, 27511), (203, 27520), (206, 27547), (212, 27589), (215, 27610),

Gene: West99\_30 Start: 27603, Stop: 29039, Start Num: 14

Candidate Starts for West99\_30:

(Start: 14 @27603 has 83 MA's), (20, 27636), (23, 27660), (24, 27663), (27, 27684), (31, 27705), (39, 27738), (49, 27783), (52, 27792), (62, 27855), (76, 28035), (77, 28038), (79, 28059), (84, 28083), (85, 28089), (87, 28107), (91, 28137), (92, 28140), (95, 28155), (97, 28161), (104, 28230), (108, 28284), (112, 28302), (116, 28320), (117, 28323), (122, 28347), (129, 28401), (134, 28440), (138, 28458), (142, 28479), (149, 28536), (150, 28542), (152, 28551), (161, 28608), (168, 28659), (170, 28668), (173, 28701), (175, 28710), (184, 28776), (187, 28818), (191, 28839), (194, 28851), (195, 28869), (203, 28908), (211, 28974), (212, 28977), (216, 29007),

Gene: Windsor\_28 Start: 25917, Stop: 27350, Start Num: 13

Candidate Starts for Windsor\_28:

(Start: 13 @25917 has 308 MA's), (23, 25974), (27, 25998), (32, 26022), (48, 26097), (74, 26313), (75, 26340), (77, 26349), (79, 26370), (83, 26391), (85, 26400), (94, 26463), (105, 26556), (116, 26631), (136, 26763), (145, 26811), (150, 26853), (151, 26859), (152, 26862), (158, 26901), (161, 26919),

(162, 26934), (163, 26940), (164, 26949), (167, 26964), (172, 27009), (185, 27114), (191, 27150), (201, 27210), (203, 27219), (206, 27246), (212, 27288), (215, 27309),

Gene: Wooper\_27 Start: 25493, Stop: 27019, Start Num: 3

Candidate Starts for Wooper\_27:

(Start: 3 @25493 has 17 MA's), (7, 25526), (10, 25550), (11, 25553), (Start: 13 @25574 has 308 MA's), (16, 25589), (17, 25595), (18, 25598), (41, 25736), (55, 25787), (70, 25943), (75, 26009), (82, 26048), (93, 26123), (105, 26225), (112, 26282), (128, 26372), (129, 26381), (130, 26393), (137, 26435), (141, 26456), (150, 26522), (151, 26528), (157, 26567), (158, 26570), (162, 26603), (166, 26630), (168, 26639), (170, 26648), (176, 26693), (181, 26729), (182, 26741), (186, 26789), (201, 26879), (211, 26954), (216, 26987),

Gene: Xavier\_28 Start: 25940, Stop: 27373, Start Num: 13

Candidate Starts for Xavier\_28:

(Start: 13 @25940 has 308 MA's), (23, 25997), (27, 26021), (32, 26045), (48, 26120), (74, 26336), (75, 26363), (77, 26372), (79, 26393), (83, 26414), (85, 26423), (94, 26486), (105, 26579), (112, 26636), (116, 26654), (136, 26786), (145, 26834), (150, 26876), (151, 26882), (152, 26885), (158, 26924), (162, 26957), (163, 26963), (164, 26972), (167, 26987), (172, 27032), (185, 27137), (191, 27173), (201, 27233), (203, 27242), (212, 27311),

Gene: Xincheng\_25 Start: 25918, Stop: 27351, Start Num: 13

Candidate Starts for Xincheng\_25:

(Start: 13 @25918 has 308 MA's), (20, 25951), (23, 25975), (24, 25978), (28, 26008), (36, 26050), (38, 26056), (41, 26071), (48, 26098), (57, 26131), (62, 26173), (63, 26200), (74, 26314), (76, 26347), (77, 26350), (78, 26356), (83, 26392), (85, 26401), (92, 26452), (109, 26605), (115, 26623), (116, 26632), (117, 26635), (121, 26656), (125, 26674), (128, 26704), (129, 26713), (130, 26725), (137, 26767), (139, 26773), (150, 26854), (151, 26860), (154, 26884), (157, 26899), (158, 26902), (162, 26935), (164, 26950), (166, 26962), (173, 27013), (176, 27025), (187, 27130), (190, 27148), (191, 27151), (202, 27217), (205, 27238), (211, 27286), (216, 27319), (217, 27325), (220, 27346),

Gene: Yago84\_25 Start: 24069, Stop: 25598, Start Num: 3

Candidate Starts for Yago84\_25:

(Start: 3 @24069 has 17 MA's), (7, 24102), (46, 24333), (62, 24417), (77, 24597), (80, 24621), (83, 24639), (85, 24648), (91, 24696), (92, 24699), (97, 24720), (112, 24861), (115, 24870), (116, 24879), (117, 24882), (121, 24903), (128, 24951), (130, 24972), (150, 25101), (151, 25107), (158, 25149), (162, 25182), (163, 25188), (164, 25197), (174, 25266), (182, 25320), (186, 25368), (212, 25536),

Gene: Yahalom\_29 Start: 26159, Stop: 27589, Start Num: 14

Candidate Starts for Yahalom\_29:

(Start: 14 @26159 has 83 MA's), (23, 26216), (27, 26240), (28, 26249), (50, 26336), (67, 26486), (70, 26513), (77, 26588), (82, 26618), (85, 26639), (87, 26657), (97, 26711), (99, 26744), (117, 26873), (129, 26951), (130, 26963), (133, 26984), (135, 26999), (139, 27011), (150, 27092), (151, 27098), (159, 27146), (161, 27158), (166, 27200), (170, 27218), (173, 27251), (181, 27299), (186, 27359), (188, 27374), (191, 27389), (192, 27392), (212, 27527), (216, 27557),

Gene: Yinz\_29 Start: 26182, Stop: 27612, Start Num: 14

Candidate Starts for Yinz\_29:

(Start: 14 @26182 has 83 MA's), (23, 26239), (27, 26263), (28, 26272), (50, 26359), (67, 26509), (70, 26536), (75, 26602), (77, 26611), (82, 26641), (85, 26662), (87, 26680), (97, 26734), (117, 26896), (129, 26974), (130, 26986), (133, 27007), (135, 27022), (139, 27034), (150, 27115), (151, 27121), (159, 27169), (161, 27181), (166, 27223), (170, 27241), (173, 27274), (181, 27322), (186, 27382), (188, 27397), (191, 27412), (192, 27415), (212, 27550), (216, 27580),

Gene: Yoshand\_29 Start: 26226, Stop: 27659, Start Num: 13

Candidate Starts for Yoshand\_29:

(Start: 13 @26226 has 308 MA's), (23, 26283), (27, 26307), (32, 26331), (48, 26406), (74, 26622), (75, 26649), (77, 26658), (79, 26679), (83, 26700), (85, 26709), (94, 26772), (105, 26865), (112, 26922), (116, 26940), (136, 27072), (145, 27120), (150, 27162), (151, 27168), (152, 27171), (158, 27210), (162, 27243), (163, 27249), (164, 27258), (167, 27273), (172, 27318), (185, 27423), (191, 27459), (201, 27519), (203, 27528), (212, 27597),

Gene: YouGoGlencoco\_29 Start: 26221, Stop: 27654, Start Num: 13

Candidate Starts for YouGoGlencoco\_29:

(Start: 13 @26221 has 308 MA's), (23, 26278), (27, 26302), (32, 26326), (48, 26401), (74, 26617), (75, 26644), (77, 26653), (79, 26674), (83, 26695), (85, 26704), (94, 26767), (105, 26860), (112, 26917), (116, 26935), (136, 27067), (145, 27115), (150, 27157), (151, 27163), (152, 27166), (158, 27205), (162, 27238), (163, 27244), (164, 27253), (167, 27268), (172, 27313), (185, 27418), (191, 27454), (201, 27514), (203, 27523), (212, 27592),

Gene: Zaider\_30 Start: 26451, Stop: 27884, Start Num: 13

Candidate Starts for Zaider\_30:

(Start: 13 @26451 has 308 MA's), (23, 26508), (27, 26532), (32, 26556), (48, 26631), (74, 26847), (75, 26874), (77, 26883), (79, 26904), (83, 26925), (85, 26934), (94, 26997), (105, 27090), (112, 27147), (116, 27165), (136, 27297), (145, 27345), (150, 27387), (151, 27393), (152, 27396), (158, 27435), (162, 27468), (163, 27474), (164, 27483), (167, 27498), (172, 27543), (185, 27648), (191, 27684), (201, 27744), (203, 27753), (212, 27822),

Gene: Zelda\_29 Start: 26217, Stop: 27650, Start Num: 13

Candidate Starts for Zelda\_29:

(Start: 13 @26217 has 308 MA's), (23, 26274), (27, 26298), (32, 26322), (48, 26397), (74, 26613), (75, 26640), (77, 26649), (79, 26670), (83, 26691), (85, 26700), (94, 26763), (105, 26856), (112, 26913), (116, 26931), (136, 27063), (145, 27111), (150, 27153), (151, 27159), (152, 27162), (158, 27201), (162, 27234), (163, 27240), (164, 27249), (167, 27264), (172, 27309), (185, 27414), (191, 27450), (201, 27510), (203, 27519), (212, 27588),

Gene: Zemanar\_27 Start: 26460, Stop: 27893, Start Num: 13

Candidate Starts for Zemanar\_27:

(Start: 13 @26460 has 308 MA's), (20, 26493), (23, 26517), (24, 26520), (28, 26550), (36, 26592), (38, 26598), (48, 26640), (57, 26673), (62, 26715), (74, 26856), (77, 26892), (78, 26898), (83, 26934), (85, 26943), (92, 26994), (98, 27036), (109, 27147), (115, 27165), (116, 27174), (117, 27177), (121, 27198), (129, 27255), (130, 27267), (137, 27309), (139, 27315), (150, 27396), (151, 27402), (154, 27426), (158, 27444), (162, 27477), (164, 27492), (166, 27504), (173, 27555), (176, 27567), (190, 27690), (191, 27693), (202, 27759), (205, 27780), (211, 27828), (217, 27867), (220, 27888),

Gene: Zenteno07\_32 Start: 26206, Stop: 27639, Start Num: 13

Candidate Starts for Zenteno07\_32:

(Start: 13 @26206 has 308 MA's), (24, 26266), (27, 26287), (32, 26311), (37, 26341), (48, 26386), (67, 26539), (76, 26635), (90, 26725), (92, 26740), (112, 26902), (124, 26956), (139, 27061), (140, 27064), (150, 27142), (157, 27187), (164, 27238), (172, 27298), (203, 27508), (212, 27577), (214, 27592), (217, 27613),

Gene: Zonia\_29 Start: 26240, Stop: 27673, Start Num: 13

Candidate Starts for Zonia\_29:

(Start: 13 @26240 has 308 MA's), (23, 26297), (27, 26321), (32, 26345), (48, 26420), (74, 26636), (75, 26663), (77, 26672), (79, 26693), (83, 26714), (85, 26723), (94, 26786), (105, 26879), (112, 26936), (116, 26954), (136, 27086), (145, 27134), (150, 27176), (151, 27182), (152, 27185), (158, 27224),

(162, 27257), (163, 27263), (164, 27272), (167, 27287), (172, 27332), (185, 27437), (191, 27473),  
(201, 27533), (203, 27542), (212, 27611),