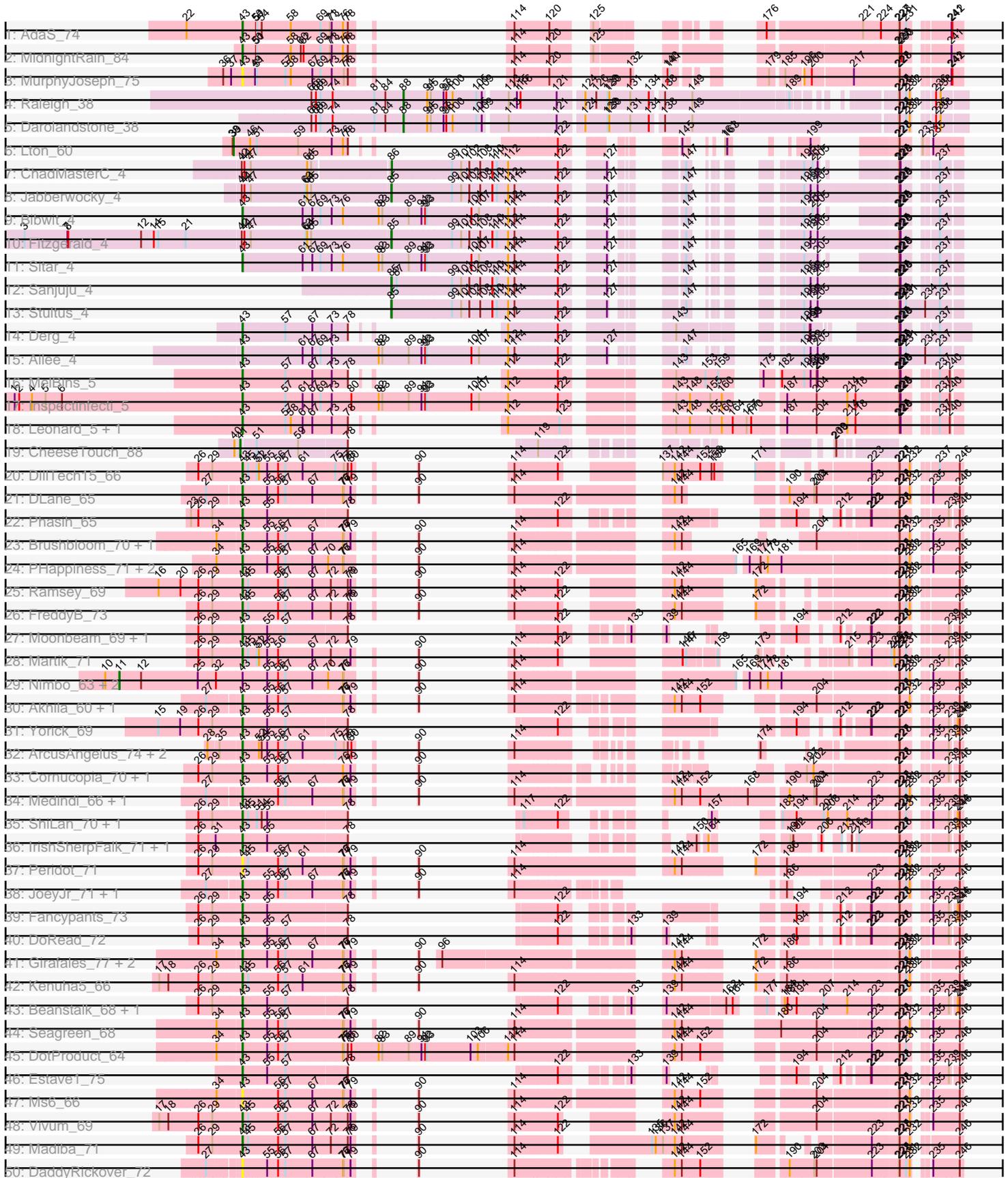
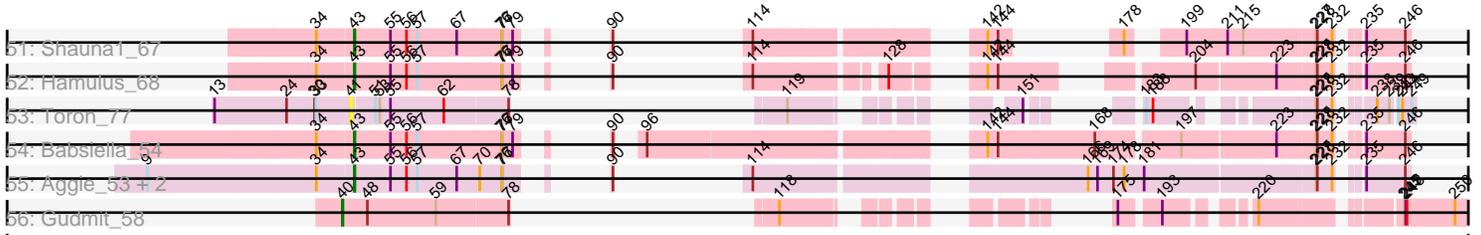


Pham 291106



Pham 291106



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 291106 Report

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

Pham number 291106 has 76 members, 7 are drafts.

Phages represented in each track:

- Track 1 : AdaS_74
- Track 2 : MidnightRain_84
- Track 3 : MurphyJoseph_75
- Track 4 : Raleigh_38
- Track 5 : Darolandstone_38
- Track 6 : Lton_60
- Track 7 : ChadMasterC_4
- Track 8 : Jabberwocky_4
- Track 9 : Bibwit_4
- Track 10 : Fitzgerald_4
- Track 11 : Sitar_4
- Track 12 : Sanjuju_4
- Track 13 : Stultus_4
- Track 14 : Derg_4
- Track 15 : Ailee_4
- Track 16 : MelBins_5
- Track 17 : Inspectinfecti_5
- Track 18 : Leonard_5, Phinally_5
- Track 19 : CheeseTouch_88
- Track 20 : DillTech15_66
- Track 21 : DLane_65
- Track 22 : Phasih_65
- Track 23 : Brushbloom_70, Batiatus_66
- Track 24 : PHappiness_71, Daenerys_70, OldBen_68
- Track 25 : Ramsey_69
- Track 26 : FreddyB_73
- Track 27 : Moonbeam_69, Starcevich_69
- Track 28 : Martik_71
- Track 29 : Nimbo_63, Geralt_64, Deb65_64
- Track 30 : Akhila_60, MilanaBonita_59
- Track 31 : Yorick_69
- Track 32 : ArcusAngelus_74, Tweety_72, Chevrolet_76
- Track 33 : Cornucopia_70, VRedHorse_68
- Track 34 : Medindi_66, Filuzino_68
- Track 35 : ShiLan_70, Rita_76
- Track 36 : IrishSherpFalk_71, WillSterrel_71
- Track 37 : Peridot_71

- Track 38 : JoeyJr_71, RitaG_71
- Track 39 : Fancypants_73
- Track 40 : DoRead_72
- Track 41 : Girafales_77, Quico_77, Florinda_80
- Track 42 : Kenuha5_66
- Track 43 : Beanstalk_68, Wachhund_69
- Track 44 : Seagreen_68
- Track 45 : DotProduct_64
- Track 46 : Estave1_75
- Track 47 : Ms6_66
- Track 48 : Vivum_69
- Track 49 : Madiba_71
- Track 50 : DaddyRickover_72
- Track 51 : Shauna1_67
- Track 52 : Hamulus_68
- Track 53 : Toron_77
- Track 54 : Babsiella_54
- Track 55 : Aggie_53, Silvy_53, Philonius_55
- Track 56 : Gudmit_58

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

The start number called the most often in the published annotations is 43, it was called in 56 of the 69 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdaS_74, Aggie_53, Ailee_4, Akhila_60, ArcusAngelus_74, Babsiella_54, Batiatus_66, Beanstalk_68, Bibwit_4, Brushbloom_70, Chevrolet_76, Cornucopia_70, DLane_65, DaddyRickover_72, Daenerys_70, Derg_4, DillTech15_66, DoRead_72, DotProduct_64, Estave1_75, Fancypants_73, Filuzino_68, Florinda_80, FreddyB_73, Girafales_77, Hamulus_68, Inspectinfecti_5, IrishSherpFalk_71, JoeyJr_71, Kenuha5_66, Leonard_5, Madiba_71, Martik_71, Medindi_66, MelBins_5, MidnightRain_84, MilanaBonita_59, Moonbeam_69, Ms6_66, MurphyJoseph_75, OldBen_68, PHappiness_71, Peridot_71, Phasih_65, Philonius_55, Phinally_5, Quico_77, Ramsey_69, RitaG_71, Rita_76, Seagreen_68, Shauna1_67, ShiLan_70, Silvy_53, Sitar_4, Starcevich_69, Tweety_72, VRedHorse_68, Vivum_69, Wachhund_69, WillSterrel_71, Yorick_69,

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

- Deb65_64, Geralt_64, Nimbo_63,

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

- ChadMasterC_4, CheeseTouch_88, Darolandstone_38, Fitzgerald_4, Gudmit_58, Jabberwocky_4, Lton_60, Raleigh_38, Sanjuju_4, Stultus_4, Toron_77,

Summary by start number:

Start 11:

- Found in 3 of 76 (3.9%) of genes in pham
- Manual Annotations of this start: 3 of 69

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Deb65_64 (F1), Geralt_64 (F1), Nimbo_63 (F1),

Start 39:

- Found in 1 of 76 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lton_60 (CZ),

Start 40:

- Found in 2 of 76 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 69
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gudmit_58 (singleton),

Start 41:

- Found in 2 of 76 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CheeseTouch_88 (DN1), Toron_77 (F6),

Start 43:

- Found in 65 of 76 (85.5%) of genes in pham
- Manual Annotations of this start: 56 of 69
- Called 95.4% of time when present
- Phage (with cluster) where this start called: AdaS_74 (AY), Aggie_53 (N), Ailee_4 (DE1), Akhila_60 (F1), ArcusAngelus_74 (F1), Babsiella_54 (I1), Batiatus_66 (F1), Beanstalk_68 (F1), Bibwit_4 (DE1), Brushbloom_70 (F1), Chevrolet_76 (F1), Cornucopia_70 (F1), DLane_65 (F1), DaddyRickover_72 (F1), Daenerys_70 (F1), Derg_4 (DE1), DillTech15_66 (F1), DoRead_72 (F1), DotProduct_64 (F1), Estave1_75 (F1), Fancypants_73 (F1), Filuzino_68 (F1), Florinda_80 (F1), FreddyB_73 (F1), Girafales_77 (F1), Hamulus_68 (F1), Inspectinfecti_5 (DE2), IrishSherpFalk_71 (F1), JoeyJr_71 (F1), Kenuha5_66 (F1), Leonard_5 (DE2), Madiba_71 (F1), Martik_71 (F1), Medindi_66 (F1), MelBins_5 (DE2), MidnightRain_84 (AY), MilanaBonita_59 (F1), Moonbeam_69 (F1), Ms6_66 (F1), MurphyJoseph_75 (AY), OldBen_68 (F1), PHappiness_71 (F1), Peridot_71 (F1), Phasih_65 (F1), Philonius_55 (N), Phinally_5 (DE2), Quico_77 (F1), Ramsey_69 (F1), RitaG_71 (F1), Rita_76 (F1), Seagreen_68 (F1), Shauna1_67 (F1), ShiLan_70 (F1), Silvy_53 (N), Sitar_4 (DE1), Starcevic_69 (F1), Tweety_72 (F1), VRedHorse_68 (F1), Vivum_69 (F1), Wachhund_69 (F1), WillSterrel_71 (F1), Yorick_69 (F1),

Start 85:

- Found in 4 of 76 (5.3%) of genes in pham
- Manual Annotations of this start: 4 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fitzgerald_4 (DE1), Jabberwocky_4 (DE1), Sanjuju_4 (DE1), Stultus_4 (DE1),

Start 86:

- Found in 1 of 76 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 69
- Called 100.0% of time when present

- Phage (with cluster) where this start called: ChadMasterC_4 (DE1),

Start 88:

- Found in 2 of 76 (2.6%) of genes in pham
- Manual Annotations of this start: 2 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Darolandstone_38 (BC2), Raleigh_38 (BC2),

Summary by clusters:

There are 11 clusters represented in this pham: F1, singleton, F6, I1, DE1, DE2, N, CZ, DN1, AY, BC2,

Info for manual annotations of cluster AY:

- Start number 43 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster BC2:

- Start number 88 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster CZ:

- Start number 39 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster DE1:

- Start number 43 was manually annotated 4 times for cluster DE1.
- Start number 85 was manually annotated 4 times for cluster DE1.
- Start number 86 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 43 was manually annotated 4 times for cluster DE2.

Info for manual annotations of cluster DN1:

- Start number 41 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster F1:

- Start number 11 was manually annotated 3 times for cluster F1.
- Start number 43 was manually annotated 42 times for cluster F1.

Info for manual annotations of cluster I1:

- Start number 43 was manually annotated 1 time for cluster I1.

Info for manual annotations of cluster N:

- Start number 43 was manually annotated 3 times for cluster N.

Gene Information:

Gene: AdaS_74 Start: 41281, Stop: 42669, Start Num: 43

Candidate Starts for AdaS_74:

(22, 41101), (Start: 43 @41281 has 56 MA's), (50, 41320), (51, 41323), (54, 41338), (58, 41434), (69, 41530), (71, 41560), (73, 41566), (76, 41602), (78, 41617), (114, 41674), (120, 41785), (125, 41863),

(176, 42127), (221, 42412), (224, 42457), (227, 42511), (228, 42514), (231, 42535), (241, 42631), (242, 42634),

Gene: Aggie_53 Start: 35734, Stop: 37386, Start Num: 43

Candidate Starts for Aggie_53:

(9, 35296), (34, 35668), (Start: 43 @35734 has 56 MA's), (55, 35809), (56, 35845), (57, 35869), (67, 35956), (70, 36007), (76, 36055), (77, 36058), (90, 36106), (114, 36127), (166, 36757), (169, 36778), (174, 36814), (178, 36838), (181, 36883), (227, 37234), (228, 37237), (232, 37267), (235, 37294), (246, 37375),

Gene: Ailee_4 Start: 2435, Stop: 4309, Start Num: 43

Candidate Starts for Ailee_4:

(Start: 43 @2435 has 56 MA's), (61, 2627), (67, 2657), (69, 2684), (73, 2720), (82, 2873), (83, 2885), (89, 2972), (91, 3014), (92, 3026), (93, 3032), (104, 3176), (107, 3200), (112, 3296), (114, 3317), (122, 3452), (127, 3557), (147, 3653), (195, 3821), (199, 3842), (205, 3863), (227, 4112), (228, 4115), (229, 4118), (231, 4136), (234, 4199), (237, 4247),

Gene: Akhila_60 Start: 39092, Stop: 40543, Start Num: 43

Candidate Starts for Akhila_60:

(27, 39011), (Start: 43 @39092 has 56 MA's), (55, 39167), (56, 39203), (57, 39227), (76, 39413), (77, 39416), (79, 39437), (90, 39464), (114, 39485), (142, 39830), (144, 39851), (152, 39911), (204, 40151), (227, 40391), (228, 40394), (232, 40424), (235, 40451), (246, 40532),

Gene: ArcusAngelus_74 Start: 44743, Stop: 45855, Start Num: 43

Candidate Starts for ArcusAngelus_74:

(28, 44644), (35, 44677), (Start: 43 @44743 has 56 MA's), (52, 44791), (54, 44800), (55, 44818), (56, 44854), (57, 44878), (61, 44935), (75, 45040), (77, 45067), (78, 45079), (80, 45091), (90, 45115), (114, 45136), (174, 45472), (227, 45712), (228, 45715), (235, 45772), (239, 45820), (246, 45844),

Gene: Babsiella_54 Start: 36714, Stop: 38561, Start Num: 43

Candidate Starts for Babsiella_54:

(34, 36648), (Start: 43 @36714 has 56 MA's), (55, 36789), (56, 36825), (57, 36849), (76, 37035), (77, 37038), (79, 37059), (90, 37086), (96, 37107), (142, 37737), (144, 37758), (168, 37974), (197, 38139), (223, 38331), (227, 38409), (228, 38412), (232, 38442), (235, 38469), (246, 38550),

Gene: Batiatus_66 Start: 42780, Stop: 44096, Start Num: 43

Candidate Starts for Batiatus_66:

(34, 42714), (Start: 43 @42780 has 56 MA's), (55, 42855), (56, 42891), (57, 42915), (67, 43002), (76, 43101), (77, 43104), (79, 43125), (90, 43152), (114, 43173), (142, 43572), (144, 43593), (204, 43695), (227, 43944), (228, 43947), (232, 43977), (235, 44004), (246, 44085),

Gene: Beanstalk_68 Start: 43692, Stop: 45113, Start Num: 43

Candidate Starts for Beanstalk_68:

(26, 43569), (29, 43611), (Start: 43 @43692 has 56 MA's), (55, 43767), (57, 43827), (78, 44022), (122, 44145), (133, 44289), (139, 44310), (162, 44499), (164, 44520), (177, 44580), (184, 44616), (188, 44625), (194, 44652), (207, 44736), (214, 44811), (223, 44892), (227, 44970), (228, 44973), (235, 45030), (239, 45078), (244, 45096), (246, 45102),

Gene: Bibwit_4 Start: 2433, Stop: 4142, Start Num: 43

Candidate Starts for Bibwit_4:

(Start: 43 @2433 has 56 MA's), (61, 2625), (67, 2655), (69, 2682), (73, 2718), (76, 2754), (82, 2871), (83, 2883), (89, 2970), (91, 3012), (92, 3024), (93, 3030), (104, 3174), (107, 3198), (112, 3294), (114, 3315), (122, 3450), (127, 3555), (147, 3651), (195, 3819), (201, 3846), (205, 3861), (227, 3996), (228,

3999), (229, 4002), (237, 4080),

Gene: Brushbloom_70 Start: 43712, Stop: 45028, Start Num: 43

Candidate Starts for Brushbloom_70:

(34, 43646), (Start: 43 @43712 has 56 MA's), (55, 43787), (56, 43823), (57, 43847), (67, 43934), (76, 44033), (77, 44036), (79, 44057), (90, 44084), (114, 44105), (142, 44504), (144, 44525), (204, 44627), (227, 44876), (228, 44879), (232, 44909), (235, 44936), (246, 45017),

Gene: ChadMasterC_4 Start: 2379, Stop: 3599, Start Num: 86

Candidate Starts for ChadMasterC_4:

(42, 1923), (44, 1932), (47, 1950), (64, 2130), (65, 2142), (Start: 86 @2379 has 1 MA's), (99, 2571), (101, 2601), (102, 2628), (108, 2664), (110, 2700), (111, 2715), (112, 2751), (122, 2907), (127, 3012), (147, 3108), (195, 3276), (201, 3303), (205, 3318), (227, 3453), (228, 3456), (229, 3459), (237, 3537),

Gene: CheeseTouch_88 Start: 43473, Stop: 44507, Start Num: 41

Candidate Starts for CheeseTouch_88:

(Start: 40 @43464 has 1 MA's), (Start: 41 @43473 has 1 MA's), (51, 43515), (59, 43650), (78, 43803), (119, 43863), (209, 44355), (210, 44358),

Gene: Chevrolet_76 Start: 44744, Stop: 45856, Start Num: 43

Candidate Starts for Chevrolet_76:

(28, 44645), (35, 44678), (Start: 43 @44744 has 56 MA's), (52, 44792), (54, 44801), (55, 44819), (56, 44855), (57, 44879), (61, 44936), (75, 45041), (77, 45068), (78, 45080), (80, 45092), (90, 45116), (114, 45137), (174, 45473), (227, 45713), (228, 45716), (235, 45773), (239, 45821), (246, 45845),

Gene: Cornucopia_70 Start: 43350, Stop: 44651, Start Num: 43

Candidate Starts for Cornucopia_70:

(26, 43227), (29, 43269), (Start: 43 @43350 has 56 MA's), (55, 43425), (56, 43461), (57, 43485), (76, 43671), (79, 43695), (90, 43722), (197, 44238), (202, 44259), (227, 44508), (228, 44511), (239, 44616), (246, 44640),

Gene: DLane_65 Start: 42636, Stop: 44030, Start Num: 43

Candidate Starts for DLane_65:

(27, 42555), (Start: 43 @42636 has 56 MA's), (55, 42711), (56, 42747), (57, 42771), (67, 42858), (76, 42957), (77, 42960), (79, 42981), (90, 43008), (114, 43029), (142, 43428), (144, 43449), (190, 43554), (203, 43632), (204, 43638), (223, 43800), (227, 43878), (228, 43881), (232, 43911), (235, 43938), (246, 44019),

Gene: DaddyRickover_72 Start: 45172, Stop: 46629, Start Num: 43

Candidate Starts for DaddyRickover_72:

(27, 45091), (Start: 43 @45172 has 56 MA's), (55, 45247), (56, 45283), (57, 45307), (67, 45394), (76, 45493), (77, 45496), (79, 45517), (90, 45544), (114, 45565), (142, 45910), (144, 45931), (152, 45991), (190, 46153), (203, 46231), (204, 46237), (223, 46399), (227, 46477), (228, 46480), (231, 46501), (232, 46510), (235, 46537), (246, 46618),

Gene: Daenerys_70 Start: 45291, Stop: 46922, Start Num: 43

Candidate Starts for Daenerys_70:

(34, 45210), (Start: 43 @45291 has 56 MA's), (55, 45366), (56, 45402), (57, 45426), (67, 45513), (70, 45564), (76, 45612), (77, 45615), (90, 45663), (114, 45684), (165, 46293), (169, 46314), (174, 46350), (178, 46374), (181, 46419), (227, 46770), (228, 46773), (231, 46794), (232, 46803), (235, 46830), (246, 46911),

Gene: Darolandstone_38 Start: 28753, Stop: 30447, Start Num: 88

Candidate Starts for Darolandstone_38:

(66, 28456), (68, 28471), (69, 28486), (74, 28522), (81, 28657), (84, 28693), (Start: 88 @28753 has 2 MA's), (94, 28831), (95, 28843), (97, 28885), (98, 28894), (100, 28915), (105, 28993), (109, 29011), (113, 29080), (121, 29233), (124, 29308), (129, 29377), (130, 29383), (131, 29452), (134, 29512), (138, 29545), (149, 29635), (227, 30283), (228, 30286), (231, 30307), (232, 30316), (236, 30352), (238, 30367),

Gene: Deb65_64 Start: 42619, Stop: 44643, Start Num: 11

Candidate Starts for Deb65_64:

(10, 42574), (Start: 11 @42619 has 3 MA's), (12, 42688), (25, 42871), (32, 42928), (Start: 43 @43012 has 56 MA's), (55, 43087), (56, 43123), (57, 43147), (67, 43234), (70, 43285), (76, 43333), (77, 43336), (90, 43384), (114, 43405), (165, 44014), (169, 44035), (174, 44071), (178, 44095), (181, 44140), (227, 44491), (228, 44494), (231, 44515), (232, 44524), (235, 44551), (246, 44632),

Gene: Derg_4 Start: 2405, Stop: 3790, Start Num: 43

Candidate Starts for Derg_4:

(Start: 43 @2405 has 56 MA's), (57, 2540), (67, 2627), (73, 2690), (78, 2741), (112, 2777), (122, 2933), (143, 3158), (195, 3425), (198, 3443), (199, 3446), (227, 3617), (228, 3620), (229, 3623), (237, 3701),

Gene: DillTech15_66 Start: 41528, Stop: 42871, Start Num: 43

Candidate Starts for DillTech15_66:

(26, 41405), (29, 41447), (Start: 43 @41528 has 56 MA's), (45, 41543), (51, 41570), (52, 41576), (55, 41603), (56, 41639), (57, 41663), (61, 41720), (75, 41825), (77, 41852), (78, 41864), (80, 41876), (90, 41900), (114, 41921), (122, 42056), (137, 42206), (142, 42242), (144, 42263), (152, 42323), (156, 42359), (158, 42368), (171, 42395), (223, 42638), (227, 42719), (228, 42722), (232, 42752), (237, 42800), (246, 42860),

Gene: DoRead_72 Start: 43076, Stop: 44179, Start Num: 43

Candidate Starts for DoRead_72:

(26, 42953), (29, 42995), (Start: 43 @43076 has 56 MA's), (55, 43151), (57, 43211), (78, 43406), (122, 43529), (133, 43673), (139, 43694), (194, 43823), (212, 43889), (222, 43955), (223, 43958), (227, 44036), (228, 44039), (235, 44096), (239, 44144), (246, 44168),

Gene: DotProduct_64 Start: 41819, Stop: 43810, Start Num: 43

Candidate Starts for DotProduct_64:

(34, 41753), (Start: 43 @41819 has 56 MA's), (55, 41894), (56, 41930), (57, 41954), (76, 42140), (77, 42143), (78, 42155), (80, 42167), (82, 42257), (83, 42269), (89, 42356), (91, 42398), (92, 42410), (93, 42416), (103, 42560), (106, 42584), (112, 42677), (114, 42698), (142, 43097), (144, 43118), (152, 43178), (204, 43418), (223, 43580), (227, 43658), (228, 43661), (231, 43682), (235, 43718), (246, 43799),

Gene: Estave1_75 Start: 47847, Stop: 48950, Start Num: 43

Candidate Starts for Estave1_75:

(Start: 43 @47847 has 56 MA's), (55, 47922), (57, 47982), (78, 48177), (122, 48300), (133, 48444), (139, 48465), (194, 48594), (212, 48660), (222, 48726), (223, 48729), (227, 48807), (228, 48810), (235, 48867), (239, 48915), (246, 48939),

Gene: Fancypants_73 Start: 46022, Stop: 47248, Start Num: 43

Candidate Starts for Fancypants_73:

(26, 45899), (29, 45941), (Start: 43 @46022 has 56 MA's), (55, 46097), (78, 46352), (122, 46475), (194, 46892), (212, 46958), (222, 47024), (223, 47027), (227, 47105), (228, 47108), (235, 47165), (239, 47213), (244, 47231), (246, 47237),

Gene: Filuzino_68 Start: 42971, Stop: 44581, Start Num: 43

Candidate Starts for Filuzino_68:

(27, 42890), (Start: 43 @42971 has 56 MA's), (56, 43082), (57, 43106), (67, 43193), (76, 43292), (77, 43295), (79, 43316), (90, 43343), (114, 43364), (142, 43763), (144, 43784), (152, 43844), (168, 43994), (190, 44105), (203, 44183), (204, 44189), (223, 44351), (227, 44429), (228, 44432), (231, 44453), (232, 44462), (235, 44489), (246, 44570),

Gene: Fitzgerald_4 Start: 2397, Stop: 3731, Start Num: 85

Candidate Starts for Fitzgerald_4:

(3, 1218), (7, 1359), (8, 1362), (12, 1602), (14, 1644), (15, 1659), (21, 1749), (42, 1923), (44, 1932), (47, 1950), (63, 2127), (64, 2130), (65, 2142), (Start: 85 @2397 has 4 MA's), (99, 2589), (101, 2619), (102, 2646), (108, 2682), (110, 2718), (111, 2733), (112, 2769), (114, 2790), (122, 2925), (127, 3030), (147, 3126), (195, 3294), (199, 3315), (205, 3336), (227, 3585), (228, 3588), (229, 3591), (237, 3669),

Gene: Florinda_80 Start: 44991, Stop: 46736, Start Num: 43

Candidate Starts for Florinda_80:

(34, 44925), (Start: 43 @44991 has 56 MA's), (55, 45066), (56, 45102), (57, 45126), (67, 45213), (76, 45312), (77, 45315), (79, 45336), (90, 45363), (96, 45384), (142, 46014), (144, 46035), (172, 46170), (186, 46251), (227, 46584), (228, 46587), (231, 46608), (232, 46617), (246, 46725),

Gene: FreddyB_73 Start: 44628, Stop: 45971, Start Num: 43

Candidate Starts for FreddyB_73:

(26, 44505), (29, 44547), (Start: 43 @44628 has 56 MA's), (45, 44643), (56, 44739), (57, 44763), (67, 44850), (72, 44910), (78, 44964), (79, 44973), (90, 45000), (114, 45021), (122, 45156), (142, 45342), (144, 45363), (172, 45498), (227, 45819), (228, 45822), (231, 45843), (232, 45852), (246, 45960),

Gene: Geralt_64 Start: 42618, Stop: 44642, Start Num: 11

Candidate Starts for Geralt_64:

(10, 42573), (Start: 11 @42618 has 3 MA's), (12, 42687), (25, 42870), (32, 42927), (Start: 43 @43011 has 56 MA's), (55, 43086), (56, 43122), (57, 43146), (67, 43233), (70, 43284), (76, 43332), (77, 43335), (90, 43383), (114, 43404), (165, 44013), (169, 44034), (174, 44070), (178, 44094), (181, 44139), (227, 44490), (228, 44493), (231, 44514), (232, 44523), (235, 44550), (246, 44631),

Gene: Girafales_77 Start: 44782, Stop: 46527, Start Num: 43

Candidate Starts for Girafales_77:

(34, 44716), (Start: 43 @44782 has 56 MA's), (55, 44857), (56, 44893), (57, 44917), (67, 45004), (76, 45103), (77, 45106), (79, 45127), (90, 45154), (96, 45175), (142, 45805), (144, 45826), (172, 45961), (186, 46042), (227, 46375), (228, 46378), (231, 46399), (232, 46408), (246, 46516),

Gene: Gudmit_58 Start: 34535, Stop: 35920, Start Num: 40

Candidate Starts for Gudmit_58:

(Start: 40 @34535 has 1 MA's), (48, 34586), (59, 34739), (78, 34892), (118, 34937), (175, 35306), (193, 35381), (220, 35516), (245, 35765), (247, 35768), (248, 35771), (250, 35879),

Gene: Hamulus_68 Start: 43189, Stop: 44649, Start Num: 43

Candidate Starts for Hamulus_68:

(34, 43123), (Start: 43 @43189 has 56 MA's), (55, 43264), (56, 43300), (57, 43324), (76, 43510), (77, 43513), (79, 43534), (90, 43561), (114, 43582), (128, 43828), (142, 43936), (144, 43957), (204, 44257), (223, 44419), (227, 44497), (228, 44500), (232, 44530), (235, 44557), (246, 44638),

Gene: Inspectinfecti_5 Start: 2791, Stop: 4749, Start Num: 43

Candidate Starts for Inspectinfecti_5:

(1, 2047), (2, 2062), (4, 2104), (5, 2149), (6, 2203), (Start: 43 @2791 has 56 MA's), (57, 2926), (61, 2983), (67, 3013), (69, 3040), (73, 3076), (80, 3139), (82, 3229), (83, 3241), (89, 3328), (91, 3370), (92, 3382), (93, 3388), (104, 3532), (107, 3556), (112, 3652), (122, 3808), (143, 4033), (148, 4075), (155, 4138), (160, 4174), (187, 4270), (204, 4360), (214, 4444), (218, 4471), (227, 4603), (228, 4606), (229, 4609), (237, 4687), (240, 4717),

Gene: IrishSherpFalk_71 Start: 45147, Stop: 46322, Start Num: 43

Candidate Starts for IrishSherpFalk_71:

(26, 45024), (31, 45072), (Start: 43 @45147 has 56 MA's), (55, 45222), (78, 45477), (150, 45804), (154, 45828), (191, 45924), (192, 45930), (206, 45993), (213, 46026), (216, 46041), (219, 46053), (227, 46179), (228, 46182), (239, 46287), (246, 46311),

Gene: Jabberwocky_4 Start: 2397, Stop: 3731, Start Num: 85

Candidate Starts for Jabberwocky_4:

(42, 1923), (44, 1932), (47, 1950), (63, 2127), (64, 2130), (65, 2142), (Start: 85 @2397 has 4 MA's), (99, 2589), (101, 2619), (102, 2646), (108, 2682), (110, 2718), (111, 2733), (112, 2769), (114, 2790), (122, 2925), (127, 3030), (147, 3126), (195, 3294), (199, 3315), (205, 3336), (227, 3585), (228, 3588), (229, 3591), (237, 3669),

Gene: JoeyJr_71 Start: 45459, Stop: 46547, Start Num: 43

Candidate Starts for JoeyJr_71:

(27, 45378), (Start: 43 @45459 has 56 MA's), (55, 45534), (56, 45570), (57, 45594), (67, 45681), (76, 45780), (77, 45783), (79, 45804), (90, 45831), (114, 45852), (186, 46155), (223, 46317), (227, 46395), (228, 46398), (231, 46419), (232, 46428), (235, 46455), (246, 46536),

Gene: Kenuha5_66 Start: 44310, Stop: 45839, Start Num: 43

Candidate Starts for Kenuha5_66:

(17, 44061), (18, 44091), (26, 44187), (29, 44229), (Start: 43 @44310 has 56 MA's), (45, 44325), (56, 44421), (57, 44445), (61, 44502), (76, 44631), (77, 44634), (79, 44655), (90, 44682), (114, 44703), (142, 45117), (144, 45138), (172, 45273), (186, 45354), (227, 45687), (228, 45690), (231, 45711), (232, 45720), (246, 45828),

Gene: Leonard_5 Start: 2785, Stop: 4344, Start Num: 43

Candidate Starts for Leonard_5:

(Start: 43 @2785 has 56 MA's), (57, 2920), (58, 2938), (61, 2977), (67, 3007), (73, 3070), (78, 3121), (112, 3157), (123, 3319), (143, 3538), (148, 3580), (155, 3643), (160, 3679), (164, 3715), (167, 3760), (170, 3775), (187, 3862), (204, 3952), (214, 4039), (218, 4066), (227, 4198), (228, 4201), (229, 4204), (237, 4282), (240, 4312),

Gene: Lton_60 Start: 35512, Stop: 36642, Start Num: 39

Candidate Starts for Lton_60:

(38, 35509), (Start: 39 @35512 has 1 MA's), (46, 35560), (51, 35578), (59, 35713), (73, 35821), (76, 35857), (78, 35872), (122, 36064), (145, 36241), (161, 36268), (163, 36274), (199, 36346), (227, 36490), (228, 36493), (233, 36532), (235, 36550),

Gene: Madiba_71 Start: 44963, Stop: 46402, Start Num: 43

Candidate Starts for Madiba_71:

(26, 44840), (29, 44882), (Start: 43 @44963 has 56 MA's), (45, 44978), (56, 45074), (57, 45098), (67, 45185), (72, 45245), (78, 45299), (79, 45308), (90, 45335), (114, 45356), (122, 45491), (135, 45698), (136, 45710), (137, 45734), (142, 45770), (144, 45791), (172, 45926), (223, 46169), (227, 46250), (228, 46253), (232, 46283), (246, 46391),

Gene: Martik_71 Start: 45731, Stop: 46957, Start Num: 43

Candidate Starts for Martik_71:

(26, 45608), (29, 45650), (Start: 43 @45731 has 56 MA's), (45, 45746), (51, 45773), (52, 45779), (55, 45806), (56, 45842), (67, 45953), (72, 46013), (79, 46076), (90, 46103), (114, 46124), (122, 46259), (146, 46466), (147, 46478), (159, 46553), (173, 46562), (215, 46682), (223, 46736), (225, 46790), (226, 46799), (227, 46814), (228, 46817), (231, 46838), (239, 46922), (246, 46946),

Gene: Medindi_66 Start: 41626, Stop: 43236, Start Num: 43

Candidate Starts for Medindi_66:

(27, 41545), (Start: 43 @41626 has 56 MA's), (56, 41737), (57, 41761), (67, 41848), (76, 41947), (77, 41950), (79, 41971), (90, 41998), (114, 42019), (142, 42418), (144, 42439), (152, 42499), (168, 42649), (190, 42760), (203, 42838), (204, 42844), (223, 43006), (227, 43084), (228, 43087), (231, 43108), (232, 43117), (235, 43144), (246, 43225),

Gene: MelBins_5 Start: 2786, Stop: 4273, Start Num: 43

Candidate Starts for MelBins_5:

(Start: 43 @2786 has 56 MA's), (57, 2921), (67, 3008), (73, 3071), (78, 3122), (112, 3158), (122, 3314), (143, 3539), (153, 3632), (159, 3674), (175, 3737), (182, 3773), (195, 3836), (199, 3857), (204, 3875), (205, 3878), (227, 4127), (228, 4130), (229, 4133), (237, 4211), (240, 4241),

Gene: MidnightRain_84 Start: 45169, Stop: 46623, Start Num: 43

Candidate Starts for MidnightRain_84:

(Start: 43 @45169 has 56 MA's), (50, 45208), (51, 45211), (58, 45322), (60, 45355), (62, 45364), (69, 45418), (71, 45448), (73, 45454), (76, 45490), (78, 45505), (114, 45562), (120, 45673), (125, 45751), (227, 46465), (228, 46468), (230, 46474), (241, 46585),

Gene: MilanaBonita_59 Start: 39092, Stop: 40543, Start Num: 43

Candidate Starts for MilanaBonita_59:

(27, 39011), (Start: 43 @39092 has 56 MA's), (55, 39167), (56, 39203), (57, 39227), (76, 39413), (77, 39416), (79, 39437), (90, 39464), (114, 39485), (142, 39830), (144, 39851), (152, 39911), (204, 40151), (227, 40391), (228, 40394), (232, 40424), (235, 40451), (246, 40532),

Gene: Moonbeam_69 Start: 44939, Stop: 46042, Start Num: 43

Candidate Starts for Moonbeam_69:

(26, 44816), (29, 44858), (Start: 43 @44939 has 56 MA's), (55, 45014), (57, 45074), (78, 45269), (122, 45392), (133, 45536), (139, 45557), (194, 45686), (212, 45752), (222, 45818), (223, 45821), (227, 45899), (228, 45902), (239, 46007), (246, 46031),

Gene: Ms6_66 Start: 38754, Stop: 40259, Start Num: 43

Candidate Starts for Ms6_66:

(34, 38688), (Start: 43 @38754 has 56 MA's), (56, 38865), (57, 38889), (67, 38976), (76, 39075), (77, 39078), (79, 39099), (90, 39126), (114, 39147), (142, 39546), (144, 39567), (152, 39627), (204, 39867), (227, 40107), (228, 40110), (232, 40140), (235, 40167), (246, 40248),

Gene: MurphyJoseph_75 Start: 42444, Stop: 43799, Start Num: 43

Candidate Starts for MurphyJoseph_75:

(36, 42384), (37, 42408), (Start: 43 @42444 has 56 MA's), (49, 42480), (51, 42486), (57, 42579), (58, 42597), (67, 42666), (69, 42693), (73, 42729), (77, 42768), (78, 42780), (114, 42837), (120, 42948), (132, 43128), (140, 43149), (141, 43155), (179, 43296), (185, 43332), (196, 43383), (200, 43404), (217, 43521), (227, 43641), (228, 43644), (241, 43761), (242, 43764),

Gene: Nimbo_63 Start: 42621, Stop: 44645, Start Num: 11

Candidate Starts for Nimbo_63:

(10, 42576), (Start: 11 @42621 has 3 MA's), (12, 42690), (25, 42873), (32, 42930), (Start: 43 @43014 has 56 MA's), (55, 43089), (56, 43125), (57, 43149), (67, 43236), (70, 43287), (76, 43335), (77, 43338), (90, 43386), (114, 43407), (165, 44016), (169, 44037), (174, 44073), (178, 44097), (181, 44142), (227, 44493), (228, 44496), (231, 44517), (232, 44526), (235, 44553), (246, 44634),

Gene: OldBen_68 Start: 44406, Stop: 46037, Start Num: 43

Candidate Starts for OldBen_68:

(34, 44325), (Start: 43 @44406 has 56 MA's), (55, 44481), (56, 44517), (57, 44541), (67, 44628), (70, 44679), (76, 44727), (77, 44730), (90, 44778), (114, 44799), (165, 45408), (169, 45429), (174, 45465), (178, 45489), (181, 45534), (227, 45885), (228, 45888), (231, 45909), (232, 45918), (235, 45945), (246, 46026),

Gene: PHappiness_71 Start: 45235, Stop: 46866, Start Num: 43

Candidate Starts for PHappiness_71:

(34, 45154), (Start: 43 @45235 has 56 MA's), (55, 45310), (56, 45346), (57, 45370), (67, 45457), (70, 45508), (76, 45556), (77, 45559), (90, 45607), (114, 45628), (165, 46237), (169, 46258), (174, 46294), (178, 46318), (181, 46363), (227, 46714), (228, 46717), (231, 46738), (232, 46747), (235, 46774), (246, 46855),

Gene: Peridot_71 Start: 43687, Stop: 45216, Start Num: 43

Candidate Starts for Peridot_71:

(26, 43564), (29, 43606), (Start: 43 @43687 has 56 MA's), (45, 43702), (56, 43798), (57, 43822), (61, 43879), (76, 44008), (77, 44011), (79, 44032), (90, 44059), (114, 44080), (142, 44494), (144, 44515), (172, 44650), (186, 44731), (227, 45064), (228, 45067), (231, 45088), (232, 45097), (246, 45205),

Gene: Phasih_65 Start: 42908, Stop: 44134, Start Num: 43

Candidate Starts for Phasih_65:

(23, 42761), (26, 42785), (29, 42827), (Start: 43 @42908 has 56 MA's), (55, 42983), (78, 43238), (122, 43361), (194, 43778), (212, 43844), (222, 43910), (223, 43913), (227, 43991), (228, 43994), (239, 44099), (246, 44123),

Gene: Philonius_55 Start: 35263, Stop: 36915, Start Num: 43

Candidate Starts for Philonius_55:

(9, 34825), (34, 35197), (Start: 43 @35263 has 56 MA's), (55, 35338), (56, 35374), (57, 35398), (67, 35485), (70, 35536), (76, 35584), (77, 35587), (90, 35635), (114, 35656), (166, 36286), (169, 36307), (174, 36343), (178, 36367), (181, 36412), (227, 36763), (228, 36766), (232, 36796), (235, 36823), (246, 36904),

Gene: Phinally_5 Start: 2785, Stop: 4341, Start Num: 43

Candidate Starts for Phinally_5:

(Start: 43 @2785 has 56 MA's), (57, 2920), (58, 2938), (61, 2977), (67, 3007), (73, 3070), (78, 3121), (112, 3157), (123, 3319), (143, 3538), (148, 3580), (155, 3643), (160, 3679), (164, 3715), (167, 3760), (170, 3775), (187, 3862), (204, 3952), (214, 4036), (218, 4063), (227, 4195), (228, 4198), (229, 4201), (237, 4279), (240, 4309),

Gene: Quico_77 Start: 44811, Stop: 46556, Start Num: 43

Candidate Starts for Quico_77:

(34, 44745), (Start: 43 @44811 has 56 MA's), (55, 44886), (56, 44922), (57, 44946), (67, 45033), (76, 45132), (77, 45135), (79, 45156), (90, 45183), (96, 45204), (142, 45834), (144, 45855), (172, 45990), (186, 46071), (227, 46404), (228, 46407), (231, 46428), (232, 46437), (246, 46545),

Gene: Raleigh_38 Start: 29256, Stop: 30815, Start Num: 88

Candidate Starts for Raleigh_38:

(66, 28959), (68, 28974), (69, 28989), (74, 29025), (81, 29160), (84, 29196), (Start: 88 @29256 has 2 MA's), (94, 29334), (95, 29346), (97, 29388), (98, 29397), (100, 29418), (105, 29496), (109, 29514), (113, 29583), (115, 29610), (116, 29622), (121, 29736), (124, 29811), (126, 29847), (129, 29880), (130, 29886), (131, 29955), (134, 30015), (138, 30048), (149, 30138), (189, 30435), (227, 30651), (228, 30654), (231, 30675), (232, 30684), (236, 30720), (238, 30735),

Gene: Ramsey_69 Start: 45364, Stop: 46707, Start Num: 43

Candidate Starts for Ramsey_69:

(16, 45112), (20, 45184), (26, 45241), (29, 45283), (Start: 43 @45364 has 56 MA's), (45, 45379), (56, 45475), (57, 45499), (67, 45586), (72, 45646), (78, 45700), (79, 45709), (90, 45736), (114, 45757), (122, 45892), (142, 46078), (144, 46099), (172, 46234), (227, 46555), (228, 46558), (231, 46579), (232, 46588), (246, 46696),

Gene: Rita_76 Start: 46350, Stop: 47519, Start Num: 43

Candidate Starts for Rita_76:

(26, 46227), (29, 46269), (Start: 43 @46350 has 56 MA's), (45, 46365), (51, 46392), (54, 46407), (55, 46425), (78, 46680), (117, 46698), (122, 46803), (157, 46950), (183, 47019), (194, 47061), (207, 47145), (208, 47154), (214, 47217), (223, 47298), (227, 47376), (228, 47379), (231, 47400), (235, 47436), (239, 47484), (244, 47502), (246, 47508),

Gene: RitaG_71 Start: 45580, Stop: 46668, Start Num: 43

Candidate Starts for RitaG_71:

(27, 45499), (Start: 43 @45580 has 56 MA's), (55, 45655), (56, 45691), (57, 45715), (67, 45802), (76, 45901), (77, 45904), (79, 45925), (90, 45952), (114, 45973), (186, 46276), (223, 46438), (227, 46516), (228, 46519), (231, 46540), (232, 46549), (235, 46576), (246, 46657),

Gene: Sanjuju_4 Start: 2435, Stop: 3769, Start Num: 85

Candidate Starts for Sanjuju_4:

(Start: 85 @2435 has 4 MA's), (87, 2450), (99, 2627), (101, 2657), (102, 2684), (108, 2720), (110, 2756), (111, 2771), (112, 2807), (114, 2828), (122, 2963), (127, 3068), (147, 3164), (195, 3332), (199, 3353), (205, 3374), (227, 3623), (228, 3626), (229, 3629), (237, 3707),

Gene: Seagreen_68 Start: 42620, Stop: 44155, Start Num: 43

Candidate Starts for Seagreen_68:

(34, 42554), (Start: 43 @42620 has 56 MA's), (55, 42695), (56, 42731), (57, 42755), (76, 42941), (77, 42944), (79, 42965), (90, 42992), (114, 43013), (142, 43412), (144, 43433), (180, 43649), (204, 43754), (223, 43925), (227, 44003), (228, 44006), (232, 44036), (235, 44063), (246, 44144),

Gene: Shauna1_67 Start: 43160, Stop: 44527, Start Num: 43

Candidate Starts for Shauna1_67:

(34, 43094), (Start: 43 @43160 has 56 MA's), (55, 43235), (56, 43271), (57, 43295), (67, 43382), (76, 43481), (77, 43484), (79, 43505), (90, 43532), (114, 43553), (142, 43952), (144, 43973), (178, 44033), (199, 44105), (211, 44189), (215, 44222), (227, 44375), (228, 44378), (232, 44408), (235, 44435), (246, 44516),

Gene: ShiLan_70 Start: 46343, Stop: 47512, Start Num: 43

Candidate Starts for ShiLan_70:

(26, 46220), (29, 46262), (Start: 43 @46343 has 56 MA's), (45, 46358), (51, 46385), (54, 46400), (55, 46418), (78, 46673), (117, 46691), (122, 46796), (157, 46943), (183, 47012), (194, 47054), (207, 47138), (208, 47147), (214, 47210), (223, 47291), (227, 47369), (228, 47372), (231, 47393), (235, 47429), (239, 47477), (244, 47495), (246, 47501),

Gene: Silvy_53 Start: 35734, Stop: 37386, Start Num: 43

Candidate Starts for Silvy_53:

(9, 35296), (34, 35668), (Start: 43 @35734 has 56 MA's), (55, 35809), (56, 35845), (57, 35869), (67, 35956), (70, 36007), (76, 36055), (77, 36058), (90, 36106), (114, 36127), (166, 36757), (169, 36778), (174, 36814), (178, 36838), (181, 36883), (227, 37234), (228, 37237), (232, 37267), (235, 37294), (246, 37375),

Gene: Sitar_4 Start: 2434, Stop: 4143, Start Num: 43

Candidate Starts for Sitar_4:

(Start: 43 @2434 has 56 MA's), (61, 2626), (67, 2656), (69, 2683), (73, 2719), (76, 2755), (82, 2872), (83, 2884), (89, 2971), (91, 3013), (92, 3025), (93, 3031), (104, 3175), (107, 3199), (112, 3295), (114, 3316), (122, 3451), (127, 3556), (147, 3652), (195, 3820), (205, 3862), (227, 3997), (228, 4000), (229, 4003), (237, 4081),

Gene: Starcevich_69 Start: 45704, Stop: 46807, Start Num: 43

Candidate Starts for Starcevich_69:

(26, 45581), (29, 45623), (Start: 43 @45704 has 56 MA's), (55, 45779), (57, 45839), (78, 46034), (122, 46157), (133, 46301), (139, 46322), (194, 46451), (212, 46517), (222, 46583), (223, 46586), (227, 46664), (228, 46667), (239, 46772), (246, 46796),

Gene: Stultus_4 Start: 2433, Stop: 3818, Start Num: 85

Candidate Starts for Stultus_4:

(Start: 85 @2433 has 4 MA's), (99, 2625), (101, 2655), (102, 2682), (108, 2718), (110, 2754), (111, 2769), (112, 2805), (114, 2826), (122, 2961), (127, 3066), (147, 3162), (195, 3330), (199, 3351), (205, 3372), (227, 3621), (228, 3624), (229, 3627), (231, 3645), (234, 3708), (237, 3756),

Gene: Toron_77 Start: 47150, Stop: 48340, Start Num: 41

Candidate Starts for Toron_77:

(13, 46868), (24, 47030), (30, 47087), (33, 47090), (Start: 41 @47150 has 1 MA's), (51, 47192), (53, 47201), (55, 47225), (62, 47345), (78, 47480), (119, 47540), (151, 47825), (183, 47912), (188, 47927), (227, 48185), (228, 48188), (232, 48218), (238, 48269), (239, 48293), (243, 48302), (244, 48311), (249, 48332),

Gene: Tweety_72 Start: 45824, Stop: 46936, Start Num: 43

Candidate Starts for Tweety_72:

(28, 45725), (35, 45758), (Start: 43 @45824 has 56 MA's), (52, 45872), (54, 45881), (55, 45899), (56, 45935), (57, 45959), (61, 46016), (75, 46121), (77, 46148), (78, 46160), (80, 46172), (90, 46196), (114, 46217), (174, 46553), (227, 46793), (228, 46796), (235, 46853), (239, 46901), (246, 46925),

Gene: VRedHorse_68 Start: 42168, Stop: 43469, Start Num: 43

Candidate Starts for VRedHorse_68:

(26, 42045), (29, 42087), (Start: 43 @42168 has 56 MA's), (55, 42243), (56, 42279), (57, 42303), (76, 42489), (79, 42513), (90, 42540), (197, 43056), (202, 43077), (227, 43326), (228, 43329), (239, 43434), (246, 43458),

Gene: Vivum_69 Start: 45738, Stop: 47165, Start Num: 43

Candidate Starts for Vivum_69:

(17, 45489), (18, 45519), (26, 45615), (29, 45657), (Start: 43 @45738 has 56 MA's), (45, 45753), (56, 45849), (57, 45873), (67, 45960), (72, 46020), (78, 46074), (79, 46083), (90, 46110), (114, 46131), (122, 46266), (142, 46452), (144, 46473), (204, 46773), (227, 47013), (228, 47016), (232, 47046), (235, 47073), (246, 47154),

Gene: Wachhund_69 Start: 42634, Stop: 44055, Start Num: 43

Candidate Starts for Wachhund_69:

(26, 42511), (29, 42553), (Start: 43 @42634 has 56 MA's), (55, 42709), (57, 42769), (78, 42964), (122, 43087), (133, 43231), (139, 43252), (162, 43441), (164, 43462), (177, 43522), (184, 43558), (188, 43567), (194, 43594), (207, 43678), (214, 43753), (223, 43834), (227, 43912), (228, 43915), (235, 43972), (239, 44020), (244, 44038), (246, 44044),

Gene: WillSterrel_71 Start: 45180, Stop: 46355, Start Num: 43

Candidate Starts for WillSterrel_71:

(26, 45057), (31, 45105), (Start: 43 @45180 has 56 MA's), (55, 45255), (78, 45510), (150, 45837), (154, 45861), (191, 45957), (192, 45963), (206, 46026), (213, 46059), (216, 46074), (219, 46086), (227, 46212), (228, 46215), (239, 46320), (246, 46344),

Gene: Yorick_69 Start: 45654, Stop: 46880, Start Num: 43

Candidate Starts for Yorick_69:

(15, 45402), (19, 45474), (26, 45531), (29, 45573), (Start: 43 @45654 has 56 MA's), (55, 45729), (57, 45789), (78, 45984), (122, 46107), (194, 46524), (212, 46590), (222, 46656), (223, 46659), (227, 46737), (228, 46740), (235, 46797), (239, 46845), (244, 46863), (246, 46869),