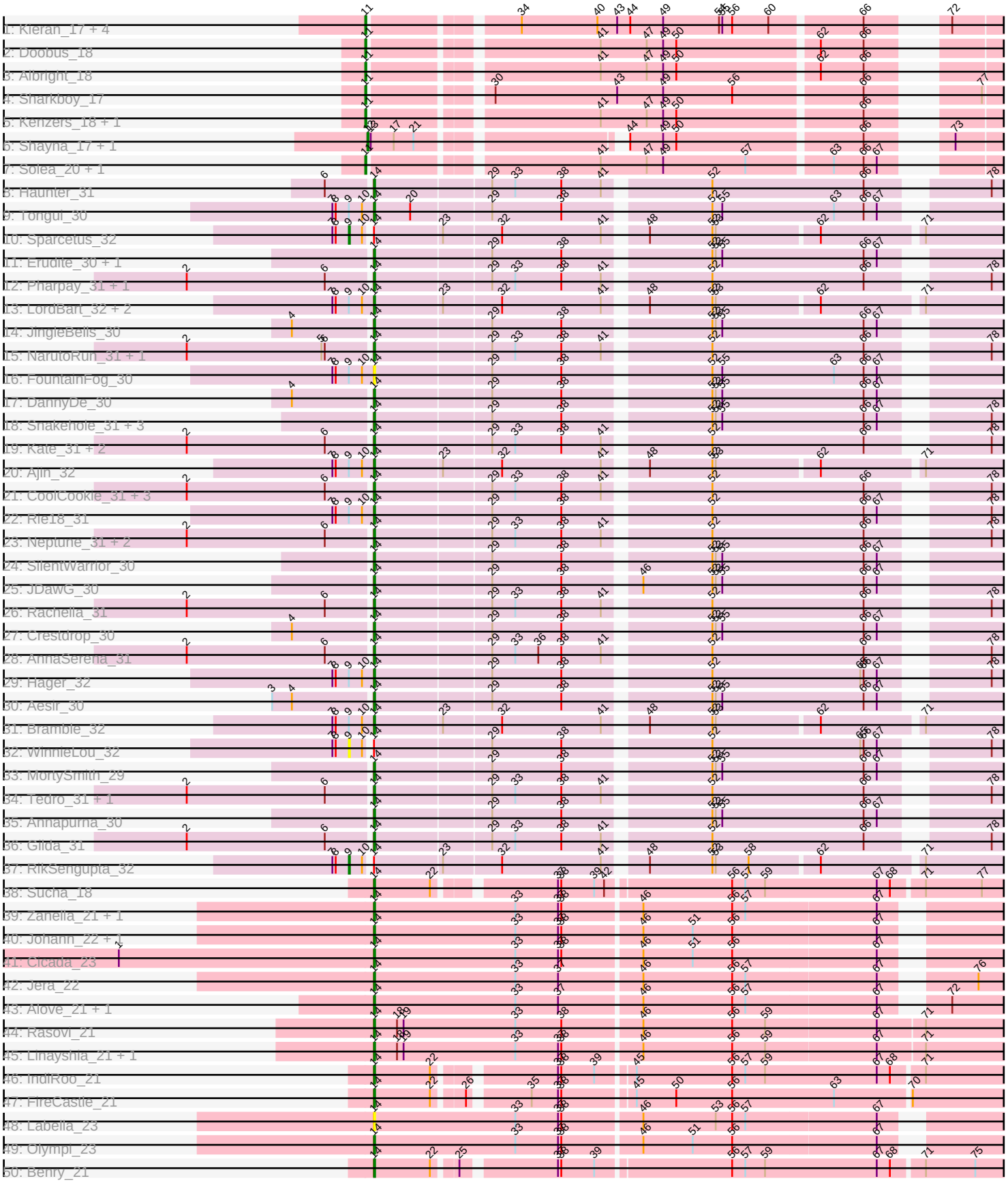
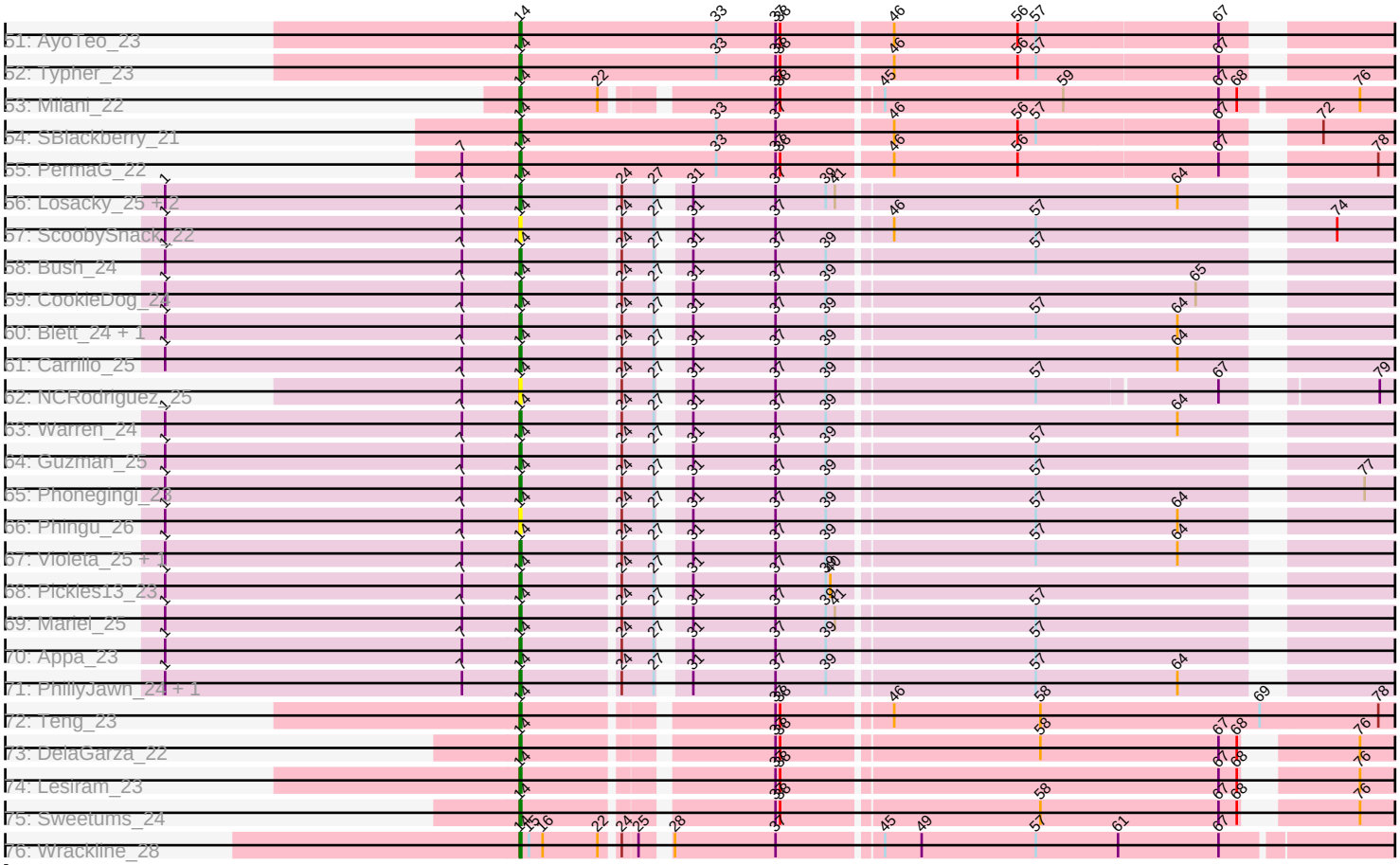
Zoomed Pham 347439



Zoomed Pham 347439



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 347439 Report

This analysis was run 11/14/26 on database version 672.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347439 has 108 members, 10 are drafts.

Phages represented in each track:
- Track 1 : Kieran_17, Rona_17, ChiliPepper_17, Kamdara_17, Dismas_17
- Track 2 : Doobus_18
- Track 3 : Albright_18
- Track 4 : Sharkboy_17
- Track 5 : Kenzers_18, Lynlen_18
- Track 6 : Shayna_17, SunnyD_17
- Track 7 : Solea_20, Milomuff_19
- Track 8 : Haunter_31
- Track 9 : Tongui_30
- Track 10 : Sparcetus_32
- Track 11 : Erudite_30, Dauntless_30
- Track 12 : Pharpay_31, Artiphact_31
- Track 13 : LordBart_32, TinyMiny_32, Kors_32
- Track 14 : JingleBells_30
- Track 15 : NarutoRun_31, Anakin_31
- Track 16 : FountainFog_30
- Track 17 : DannyDe_30
- Track 18 : Snakehole_31, Hiddenleaf_30, FreddieHg_30, Chivey_30
- Track 19 : Kate_31, OhDear_31, OverHedge_31
- Track 20 : Ajin_32
- Track 21 : CoolCookie_31, Potty_31, Krampus_31, SafetyGuy_31
- Track 22 : Rie18_31
- Track 23 : Neptune_31, PhunaPhoke_31, Cybele_31
- Track 24 : SilentWarrior_30
- Track 25 : JDawG_30
- Track 26 : Rachella_31
- Track 27 : Crestdrop_30
- Track 28 : AnnaSerena_31
- Track 29 : Hager_32
- Track 30 : Aesir_30
- Track 31 : Bramble_32
- Track 32 : WinnieLou_32
- Track 33 : MortySmith_29

• Track 34 : Tedro_31, Tiggy93_31
• Track 35 : Annapurna_30
• Track 36 : Gilda_31
• Track 37 : RikSengupta_32
• Track 38 : Sucha_18
• Track 39 : Zanella_21, TurboVicky_21
• Track 40 : Johann_22, Goodman_22
• Track 41 : Cicada_23
• Track 42 : Jera_22
• Track 43 : Alove_21, Rootkit7_21
• Track 44 : Rasovi_21
• Track 45 : Linayshia_21, Htur_21
• Track 46 : IndiRoo_21
• Track 47 : FireCastle_21
• Track 48 : Labella_23
• Track 49 : Olympi_23
• Track 50 : Benry_21
• Track 51 : AyoTeo_23
• Track 52 : Typher_23
• Track 53 : Milani_22
• Track 54 : SBlackberry_21
• Track 55 : PermaG_22
• Track 56 : Losacky_25, Antuna_24, MenE_24
• Track 57 : ScoobySnack_22
• Track 58 : Bush_24
• Track 59 : CookieDog_24
• Track 60 : Blett_24, Dropshot_23
• Track 61 : Carrillo_25
• Track 62 : NCRodriguez_25
• Track 63 : Warren_24
• Track 64 : Guzman_25
• Track 65 : Phonegingi_23
• Track 66 : Phingu_26
• Track 67 : Violeta_25, Jakelyne_25
• Track 68 : Pickles13_23
• Track 69 : Mariel_25
• Track 70 : Appa_23
• Track 71 : PhillyJawn_24, Winchester007_25
• Track 72 : Teng_23
• Track 73 : DelaGarza_22
• Track 74 : Lesiram_23
• Track 75 : Sweetums_24
• Track 76 : Wrackline_28

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

The start number called the most often in the published annotations is 14, it was called in 83 of the 98 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Aesir_30, Ajin_32, Alove_21, Anakin_31, AnnaSerena_31, Annapurna_30, Antuna_24, Appa_23, Artiphact_31, AyoTeo_23, Benry_21, Blett_24, Bramble_32, Bush_24, Carrillo_25, Chivey_30, Cicada_23, CookieDog_24, CoolCookie_31, Crestdrop_30, Cybele_31, DannyDe_30, Dauntless_30, DelaGarza_22, Dropshot_23, Erudite_30, FireCastle_21, FountainFog_30, FreddieHg_30, Gilda_31, Goodman_22, Guzman_25, Hager_32, Haunter_31, Hiddenleaf_30, Htur_21, IndiRoo_21, JDawG_30, Jakelyne_25, Jera_22, JingleBells_30, Johann_22, Kate_31, Kors_32, Krampus_31, Labella_23, Lesiram_23, Linayshia_21, LordBart_32, Losacky_25, Mariel_25, MenE_24, Milani_22, MortySmith_29, NCRodriguez_25, NarutoRun_31, Neptune_31, OhDear_31, Olympi_23, OverHedge_31, PermaG_22, Pharpay_31, PhillyJawn_24, Phingu_26, Phonegingi_23, PhunaPhoke_31, Pickles13_23, Potty_31, Rachella_31, Rasovi_21, Rie18_31, Rootkit7_21, SBlackberry_21, SafetyGuy_31, ScoobySnack_22, SilentWarrior_30, Snakehole_31, Sucha_18, Sweetums_24, Tedro_31, Teng_23, Tiggy93_31, TinyMiny_32, Tongui_30, TurboVicky_21, Typher_23, Violeta_25, Warren_24, Winchester007_25, Wrackline_28, Zanella_21,

Genes that have the "Most Annotated" start but do not call it:
• RikSengupta_32, Sparcetus_32, WinnieLou_32,

Genes that do not have the "Most Annotated" start:
• Albright_18, ChiliPepper_17, Dismas_17, Doobus_18, Kamdara_17, Kenzers_18, Kieran_17, Lynlen_18, Milomuff_19, Rona_17, Sharkboy_17, Shayna_17, Solea_20, SunnyD_17,

Summary by start number:

Start 9:
• Found in 12 of 108 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 98
• Called 25.0% of time when present
• Phage (with cluster) where this start called: RikSengupta_32 (EF), Sparcetus_32 (EF), WinnieLou_32 (EF),

Start 11:
• Found in 12 of 108 (11.1%) of genes in pham
• Manual Annotations of this start: 11 of 98
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Albright_18 (EB), ChiliPepper_17 (EB), Dismas_17 (EB), Doobus_18 (EB), Kamdara_17 (EB), Kenzers_18 (EB), Kieran_17 (EB), Lynlen_18 (EB), Milomuff_19 (EB), Rona_17 (EB), Sharkboy_17 (EB), Solea_20 (EB),

Start 12:
• Found in 2 of 108 (1.9%) of genes in pham
• Manual Annotations of this start: 2 of 98
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shayna_17 (EB), SunnyD_17 (EB),

Start 14:
• Found in 94 of 108 (87.0%) of genes in pham
• Manual Annotations of this start: 83 of 98
• Called 96.8% of time when present

• Phage (with cluster) where this start called: Aesir_30 (EF), Ajin_32 (EF), Alove_21 (EJ), Anakin_31 (EF), AnnaSerena_31 (EF), Annapurna_30 (EF), Antuna_24 (GA), Appa_23 (GA), Artiphact_31 (EF), AyoTeo_23 (EJ), Benry_21 (EJ), Blett_24 (GA), Bramble_32 (EF), Bush_24 (GA), Carrillo_25 (GA), Chivey_30 (EF), Cicada_23 (EJ), CookieDog_24 (GA), CoolCookie_31 (EF), Crestdrop_30 (EF), Cybele_31 (EF), DannyDe_30 (EF), Dauntless_30 (EF), DelaGarza_22 (GF), Dropshot_23 (GA), Erudite_30 (EF), FireCastle_21 (EJ), FountainFog_30 (EF), FreddieHg_30 (EF), Gilda_31 (EF), Goodman_22 (EJ), Guzman_25 (GA), Hager_32 (EF), Haunter_31 (EF), Hiddenleaf_30 (EF), Htur_21 (EJ), IndiRoo_21 (EJ), JDawG_30 (EF), Jakelyne_25 (GA), Jera_22 (EJ), JingleBells_30 (EF), Johann_22 (EJ), Kate_31 (EF), Kors_32 (EF), Krampus_31 (EF), Labella_23 (EJ), Lesiram_23 (GF), Linayshia_21 (EJ), LordBart_32 (EF), Losacky_25 (GA), Mariel_25 (GA), MenE_24 (GA), Milani_22 (EJ), MortySmith_29 (EF), NCRodriguez_25 (GA), NarutoRun_31 (EF), Neptune_31 (EF), OhDear_31 (EF), Olympi_23 (EJ), OverHedge_31 (EF), PermaG_22 (EJ), Pharpay_31 (EF), PhillyJawn_24 (GA), Phingu_26 (GA), Phonegingi_23 (GA), PhunaPhoke_31 (EF), Pickles13_23 (GA), Potty_31 (EF), Rachella_31 (EF), Rasovi_21 (EJ), Rie18_31 (EF), Rootkit7_21 (EJ), SBlackberry_21 (EJ), SafetyGuy_31 (EF), ScoobySnack_22 (GA), SilentWarrior_30 (EF), Snakehole_31 (EF), Sucha_18 (EJ), Sweetums_24 (GF), Tedro_31 (EF), Teng_23 (GF), Tiggy93_31 (EF), TinyMiny_32 (EF), Tongui_30 (EF), TurboVicky_21 (EJ), Typher_23 (EJ), Violeta_25 (GA), Warren_24 (GA), Winchester007_25 (GA), Wrackline_28 (GF), Zanella_21 (EJ),

Summary by clusters:

There are 5 clusters represented in this pham: GF, EF, GA, EB, EJ,

Info for manual annotations of cluster EB:
•Start number 11 was manually annotated 11 times for cluster EB.
•Start number 12 was manually annotated 2 times for cluster EB.

Info for manual annotations of cluster EF:
•Start number 9 was manually annotated 2 times for cluster EF.
•Start number 14 was manually annotated 40 times for cluster EF.

Info for manual annotations of cluster EJ:
•Start number 14 was manually annotated 21 times for cluster EJ.

Info for manual annotations of cluster GA:
•Start number 14 was manually annotated 17 times for cluster GA.

Info for manual annotations of cluster GF:
•Start number 14 was manually annotated 5 times for cluster GF.

Gene Information:

Gene: Aesir_30 Start: 18424, Stop: 20193, Start Num: 14
Candidate Starts for Aesir_30:
(3, 18337), (4, 18355), (Start: 14 @18424 has 83 MA's), (29, 18526), (38, 18589), (52, 18712), (53, 18715), (55, 18721), (66, 18850), (67, 18862), (94, 19075), (102, 19177), (106, 19219), (108, 19225), (118, 19306), (123, 19372), (127, 19402), (130, 19411), (133, 19438), (135, 19447), (147, 19528),

(153, 19582), (158, 19633), (165, 19648), (174, 19684), (210, 19867), (240, 19996), (272, 20122), (279, 20161), (281, 20173),

Gene: Ajin_32 Start: 18502, Stop: 20436, Start Num: 14
Candidate Starts for Ajin_32:
(7, 18472), (8, 18475), (Start: 9 @18487 has 2 MA's), (10, 18499), (Start: 14 @18502 has 83 MA's), (23, 18562), (32, 18613), (41, 18703), (48, 18733), (52, 18790), (53, 18793), (62, 18883), (71, 18970), (81, 19051), (90, 19135), (98, 19210), (102, 19270), (112, 19351), (119, 19402), (125, 19474), (127, 19495), (128, 19498), (130, 19504), (141, 19582), (147, 19618), (150, 19636), (177, 19792), (195, 19876), (200, 19900), (242, 20116), (251, 20158), (276, 20275), (280, 20296), (289, 20347),

Gene: Albright_18 Start: 13896, Stop: 15746, Start Num: 11
Candidate Starts for Albright_18:
(Start: 11 @13896 has 11 MA's), (41, 14085), (47, 14127), (49, 14142), (50, 14154), (62, 14277), (66, 14316), (80, 14409), (105, 14667), (134, 14895), (139, 14928), (140, 14937), (156, 15060), (207, 15285), (220, 15351), (242, 15453), (246, 15468), (261, 15537), (270, 15585), (275, 15612), (277, 15621), (286, 15672),

Gene: Alove_21 Start: 16231, Stop: 18123, Start Num: 14
Candidate Starts for Alove_21:
(Start: 14 @16231 has 83 MA's), (33, 16360), (37, 16399), (46, 16471), (56, 16552), (57, 16564), (67, 16681), (72, 16723), (88, 16840), (90, 16861), (91, 16864), (95, 16897), (103, 17002), (107, 17041), (108, 17044), (111, 17074), (126, 17212), (127, 17218), (138, 17290), (141, 17305), (144, 17329), (149, 17356), (154, 17404), (186, 17569), (198, 17605), (203, 17629), (205, 17638), (206, 17644), (216, 17698), (244, 17833), (255, 17878), (259, 17896), (262, 17914), (282, 18022), (294, 18088),

Gene: Anakin_31 Start: 18678, Stop: 20456, Start Num: 14
Candidate Starts for Anakin_31:
(2, 18513), (5, 18636), (6, 18639), (Start: 14 @18678 has 83 MA's), (29, 18780), (33, 18801), (38, 18843), (41, 18879), (52, 18966), (66, 19104), (78, 19194), (90, 19296), (102, 19431), (108, 19479), (118, 19560), (123, 19626), (127, 19656), (130, 19665), (133, 19692), (135, 19701), (153, 19836), (158, 19887), (165, 19902), (174, 19938), (181, 19986), (210, 20121), (281, 20436),

Gene: AnnaSerena_31 Start: 18687, Stop: 20465, Start Num: 14
Candidate Starts for AnnaSerena_31:
(2, 18522), (6, 18648), (Start: 14 @18687 has 83 MA's), (29, 18789), (33, 18810), (36, 18831), (38, 18852), (41, 18888), (52, 18975), (66, 19113), (78, 19203), (90, 19305), (102, 19440), (108, 19488), (118, 19569), (123, 19635), (127, 19665), (130, 19674), (133, 19701), (135, 19710), (153, 19845), (158, 19896), (165, 19911), (174, 19947), (181, 19995), (210, 20130), (256, 20316), (281, 20445),

Gene: Annapurna_30 Start: 17886, Stop: 19655, Start Num: 14
Candidate Starts for Annapurna_30:
(Start: 14 @17886 has 83 MA's), (29, 17988), (38, 18051), (52, 18174), (53, 18177), (55, 18183), (66, 18312), (67, 18324), (94, 18537), (102, 18639), (108, 18687), (118, 18768), (123, 18834), (127, 18864), (130, 18873), (133, 18900), (135, 18909), (147, 18990), (153, 19044), (158, 19095), (165, 19110), (174, 19146), (181, 19194), (210, 19329), (240, 19458), (279, 19623), (281, 19635),

Gene: Antuna_24 Start: 14563, Stop: 16431, Start Num: 14
Candidate Starts for Antuna_24:
(1, 14338), (7, 14533), (Start: 14 @14563 has 83 MA's), (24, 14623), (27, 14644), (31, 14656), (37, 14710), (39, 14743), (41, 14749), (64, 14965), (85, 15121), (90, 15175), (91, 15178), (94, 15208), (100, 15280), (114, 15403), (121, 15475), (124, 15508), (127, 15532), (136, 15580), (144, 15643), (186, 15877), (201, 15928), (205, 15946), (209, 15973), (214, 15991), (216, 16006), (247, 16153), (253,

16180), (264, 16243), (282, 16330), (296, 16423),

Gene: Appa_23 Start: 14425, Stop: 16293, Start Num: 14
Candidate Starts for Appa_23:
(1, 14200), (7, 14395), (Start: 14 @14425 has 83 MA's), (24, 14485), (27, 14506), (31, 14518), (37, 14572), (39, 14605), (57, 14734), (85, 14983), (90, 15037), (91, 15040), (94, 15070), (100, 15142), (114, 15265), (121, 15337), (124, 15370), (127, 15394), (136, 15442), (186, 15739), (201, 15790), (205, 15808), (209, 15835), (214, 15853), (216, 15868), (247, 16015), (253, 16042), (264, 16105), (282, 16192), (296, 16285),

Gene: Artiphact_31 Start: 18679, Stop: 20457, Start Num: 14
Candidate Starts for Artiphact_31:
(2, 18514), (6, 18640), (Start: 14 @18679 has 83 MA's), (29, 18781), (33, 18802), (38, 18844), (41, 18880), (52, 18967), (66, 19105), (78, 19195), (102, 19432), (108, 19480), (118, 19561), (123, 19627), (127, 19657), (130, 19666), (135, 19702), (153, 19837), (158, 19888), (165, 19903), (174, 19939), (181, 19987), (205, 20083), (210, 20122), (281, 20437),

Gene: AyoTeo_23 Start: 16358, Stop: 18250, Start Num: 14
Candidate Starts for AyoTeo_23:
(Start: 14 @16358 has 83 MA's), (33, 16487), (37, 16526), (38, 16529), (46, 16598), (56, 16679), (57, 16691), (67, 16808), (88, 16967), (90, 16988), (91, 16991), (95, 17024), (103, 17129), (107, 17168), (108, 17171), (110, 17189), (111, 17201), (126, 17339), (127, 17345), (138, 17417), (141, 17432), (144, 17456), (146, 17462), (149, 17483), (154, 17531), (186, 17696), (187, 17702), (198, 17732), (205, 17765), (206, 17771), (216, 17825), (223, 17864), (255, 18005), (282, 18149), (293, 18194), (294, 18215),

Gene: Benry_21 Start: 14670, Stop: 16571, Start Num: 14
Candidate Starts for Benry_21:
(Start: 14 @14670 has 83 MA's), (22, 14721), (25, 14739), (37, 14817), (38, 14820), (39, 14850), (56, 14967), (57, 14979), (59, 14997), (67, 15099), (68, 15111), (71, 15138), (75, 15183), (87, 15273), (90, 15303), (91, 15306), (94, 15336), (113, 15528), (119, 15570), (124, 15636), (127, 15660), (129, 15666), (135, 15705), (136, 15708), (137, 15726), (140, 15744), (141, 15747), (149, 15798), (155, 15858), (163, 15906), (222, 16194), (231, 16242), (239, 16275), (253, 16329), (260, 16362), (270, 16410), (278, 16452),

Gene: Blett_24 Start: 14578, Stop: 16446, Start Num: 14
Candidate Starts for Blett_24:
(1, 14353), (7, 14548), (Start: 14 @14578 has 83 MA's), (24, 14638), (27, 14659), (31, 14671), (37, 14725), (39, 14758), (57, 14887), (64, 14980), (90, 15190), (91, 15193), (94, 15223), (100, 15295), (114, 15418), (124, 15523), (127, 15547), (136, 15595), (186, 15892), (201, 15943), (205, 15961), (209, 15988), (214, 16006), (216, 16021), (247, 16168), (253, 16195), (264, 16258), (282, 16345), (296, 16438),

Gene: Bramble_32 Start: 18468, Stop: 20402, Start Num: 14
Candidate Starts for Bramble_32:
(7, 18438), (8, 18441), (Start: 9 @18453 has 2 MA's), (10, 18465), (Start: 14 @18468 has 83 MA's), (23, 18528), (32, 18579), (41, 18669), (48, 18699), (52, 18756), (53, 18759), (62, 18849), (71, 18936), (81, 19017), (90, 19101), (98, 19176), (102, 19236), (112, 19317), (119, 19368), (127, 19461), (128, 19464), (130, 19470), (141, 19548), (147, 19584), (150, 19602), (177, 19758), (200, 19866), (242, 20082), (251, 20124), (276, 20241), (280, 20262),

Gene: Bush_24 Start: 14559, Stop: 16421, Start Num: 14
Candidate Starts for Bush_24:

(1, 14334), (7, 14529), (Start: 14 @14559 has 83 MA's), (24, 14619), (27, 14640), (31, 14652), (37, 14706), (39, 14739), (57, 14868), (85, 15117), (87, 15141), (90, 15171), (91, 15174), (94, 15204), (100, 15276), (114, 15399), (124, 15504), (127, 15528), (136, 15576), (144, 15639), (186, 15867), (216, 15996), (225, 16041), (253, 16170), (282, 16320), (294, 16386), (296, 16413),

Gene: Carrillo_25 Start: 14532, Stop: 16400, Start Num: 14
Candidate Starts for Carrillo_25:
(1, 14307), (7, 14502), (Start: 14 @14532 has 83 MA's), (24, 14592), (27, 14613), (31, 14625), (37, 14679), (39, 14712), (64, 14934), (85, 15090), (90, 15144), (91, 15147), (94, 15177), (100, 15249), (114, 15372), (121, 15444), (124, 15477), (127, 15501), (136, 15549), (144, 15612), (186, 15846), (201, 15897), (205, 15915), (209, 15942), (214, 15960), (216, 15975), (247, 16122), (253, 16149), (264, 16212), (282, 16299), (296, 16392),

Gene: ChiliPepper_17 Start: 13661, Stop: 15667, Start Num: 11
Candidate Starts for ChiliPepper_17:
(Start: 11 @13661 has 11 MA's), (34, 13778), (40, 13847), (43, 13865), (44, 13877), (49, 13907), (54, 13958), (55, 13961), (56, 13970), (60, 14003), (66, 14081), (72, 14123), (82, 14180), (84, 14204), (92, 14267), (97, 14321), (102, 14393), (105, 14432), (106, 14435), (124, 14594), (127, 14618), (134, 14660), (135, 14663), (139, 14693), (148, 14747), (150, 14759), (153, 14795), (154, 14804), (157, 14837), (159, 14849), (186, 14978), (208, 15065), (218, 15122), (219, 15125), (220, 15137), (228, 15185), (238, 15221), (282, 15437), (284, 15455), (287, 15461), (298, 15611), (299, 15620),

Gene: Chivey_30 Start: 17840, Stop: 19609, Start Num: 14
Candidate Starts for Chivey_30:
(Start: 14 @17840 has 83 MA's), (29, 17942), (38, 18005), (52, 18128), (53, 18131), (55, 18137), (66, 18266), (67, 18278), (78, 18356), (89, 18446), (94, 18491), (102, 18593), (108, 18641), (123, 18788), (127, 18818), (130, 18827), (133, 18854), (135, 18863), (147, 18944), (153, 18998), (158, 19049), (165, 19064), (174, 19100), (204, 19238), (234, 19394), (240, 19412), (281, 19589),

Gene: Cicada_23 Start: 16468, Stop: 18345, Start Num: 14
Candidate Starts for Cicada_23:
(1, 16243), (Start: 14 @16468 has 83 MA's), (33, 16597), (37, 16636), (38, 16639), (46, 16708), (51, 16753), (56, 16789), (67, 16918), (90, 17098), (91, 17101), (95, 17134), (103, 17239), (104, 17260), (107, 17278), (108, 17281), (127, 17455), (138, 17527), (141, 17542), (144, 17566), (146, 17572), (149, 17593), (154, 17641), (188, 17809), (189, 17812), (197, 17833), (199, 17845), (215, 17920), (257, 18115), (260, 18136), (262, 18145), (268, 18178), (282, 18244), (288, 18274), (295, 18316),

Gene: CookieDog_24 Start: 14559, Stop: 16421, Start Num: 14
Candidate Starts for CookieDog_24:
(1, 14334), (7, 14529), (Start: 14 @14559 has 83 MA's), (24, 14619), (27, 14640), (31, 14652), (37, 14706), (39, 14739), (65, 14973), (85, 15117), (90, 15171), (91, 15174), (94, 15204), (100, 15276), (114, 15399), (121, 15471), (124, 15504), (127, 15528), (136, 15576), (186, 15867), (247, 16143), (253, 16170), (264, 16233), (282, 16320), (296, 16413),

Gene: CoolCookie_31 Start: 18685, Stop: 20463, Start Num: 14
Candidate Starts for CoolCookie_31:
(2, 18520), (6, 18646), (Start: 14 @18685 has 83 MA's), (29, 18787), (33, 18808), (38, 18850), (41, 18886), (52, 18973), (66, 19111), (78, 19201), (90, 19303), (102, 19438), (108, 19486), (118, 19567), (123, 19633), (127, 19663), (130, 19672), (135, 19708), (153, 19843), (158, 19894), (165, 19909), (174, 19945), (181, 19993), (210, 20128), (281, 20443),

Gene: Crestdrop_30 Start: 17749, Stop: 19518, Start Num: 14
Candidate Starts for Crestdrop_30:

(4, 17680), (Start: 14 @17749 has 83 MA's), (29, 17851), (38, 17914), (52, 18037), (53, 18040), (55, 18046), (66, 18175), (67, 18187), (94, 18400), (102, 18502), (108, 18550), (118, 18631), (123, 18697), (127, 18727), (130, 18736), (133, 18763), (135, 18772), (147, 18853), (153, 18907), (158, 18958), (165, 18973), (174, 19009), (181, 19057), (240, 19321), (279, 19486), (281, 19498),

Gene: Cybele_31 Start: 18655, Stop: 20433, Start Num: 14
Candidate Starts for Cybele_31:
(2, 18490), (6, 18616), (Start: 14 @18655 has 83 MA's), (29, 18757), (33, 18778), (38, 18820), (41, 18856), (52, 18943), (66, 19081), (78, 19171), (90, 19273), (101, 19399), (102, 19408), (108, 19456), (118, 19537), (123, 19603), (127, 19633), (130, 19642), (133, 19669), (135, 19678), (153, 19813), (158, 19864), (165, 19879), (174, 19915), (181, 19963), (205, 20059), (210, 20098), (281, 20413),

Gene: DannyDe_30 Start: 17832, Stop: 19601, Start Num: 14
Candidate Starts for DannyDe_30:
(4, 17763), (Start: 14 @17832 has 83 MA's), (29, 17934), (38, 17997), (52, 18120), (53, 18123), (55, 18129), (66, 18258), (67, 18270), (94, 18483), (102, 18585), (108, 18633), (118, 18714), (121, 18750), (123, 18780), (127, 18810), (130, 18819), (133, 18846), (135, 18855), (147, 18936), (153, 18990), (158, 19041), (165, 19056), (174, 19092), (181, 19140), (210, 19275), (240, 19404), (279, 19569), (281, 19581),

Gene: Dauntless_30 Start: 18392, Stop: 20161, Start Num: 14
Candidate Starts for Dauntless_30:
(Start: 14 @18392 has 83 MA's), (29, 18494), (38, 18557), (52, 18680), (53, 18683), (55, 18689), (66, 18818), (67, 18830), (94, 19043), (102, 19145), (108, 19193), (118, 19274), (123, 19340), (127, 19370), (130, 19379), (133, 19406), (135, 19415), (147, 19496), (153, 19550), (158, 19601), (165, 19616), (174, 19652), (240, 19964), (272, 20090), (279, 20129), (281, 20141),

Gene: DelaGarza_22 Start: 15128, Stop: 16816, Start Num: 14
Candidate Starts for DelaGarza_22:
(Start: 14 @15128 has 83 MA's), (37, 15275), (38, 15278), (58, 15440), (67, 15557), (68, 15569), (76, 15623), (87, 15710), (90, 15740), (92, 15749), (98, 15815), (103, 15881), (113, 15965), (124, 16073), (127, 16097), (133, 16133), (136, 16145), (140, 16181), (143, 16193), (144, 16208), (145, 16211), (149, 16235), (153, 16274), (155, 16295), (161, 16331), (168, 16352), (178, 16409), (213, 16556), (222, 16607), (230, 16652), (242, 16697), (248, 16721), (252, 16739),

Gene: Dismas_17 Start: 13661, Stop: 15667, Start Num: 11
Candidate Starts for Dismas_17:
(Start: 11 @13661 has 11 MA's), (34, 13778), (40, 13847), (43, 13865), (44, 13877), (49, 13907), (54, 13958), (55, 13961), (56, 13970), (60, 14003), (66, 14081), (72, 14123), (82, 14180), (84, 14204), (92, 14267), (97, 14321), (102, 14393), (105, 14432), (106, 14435), (124, 14594), (127, 14618), (134, 14660), (135, 14663), (139, 14693), (148, 14747), (150, 14759), (153, 14795), (154, 14804), (157, 14837), (159, 14849), (186, 14978), (208, 15065), (218, 15122), (219, 15125), (220, 15137), (228, 15185), (238, 15221), (282, 15437), (284, 15455), (287, 15461), (298, 15611), (299, 15620),

Gene: Doobus_18 Start: 14247, Stop: 16097, Start Num: 11
Candidate Starts for Doobus_18:
(Start: 11 @14247 has 11 MA's), (41, 14436), (47, 14478), (49, 14493), (50, 14505), (62, 14628), (66, 14667), (80, 14760), (105, 15018), (134, 15246), (139, 15279), (140, 15288), (156, 15411), (207, 15636), (211, 15657), (220, 15702), (242, 15804), (246, 15819), (261, 15888), (270, 15936), (275, 15963), (277, 15972), (286, 16023),

Gene: Dropshot_23 Start: 14425, Stop: 16293, Start Num: 14
Candidate Starts for Dropshot_23:

(1, 14200), (7, 14395), (Start: 14 @14425 has 83 MA's), (24, 14485), (27, 14506), (31, 14518), (37, 14572), (39, 14605), (57, 14734), (64, 14827), (90, 15037), (91, 15040), (94, 15070), (100, 15142), (114, 15265), (124, 15370), (127, 15394), (136, 15442), (186, 15739), (201, 15790), (205, 15808), (209, 15835), (214, 15853), (216, 15868), (247, 16015), (253, 16042), (264, 16105), (282, 16192), (296, 16285),

Gene: Erudite_30 Start: 18392, Stop: 20161, Start Num: 14
Candidate Starts for Erudite_30:
(Start: 14 @18392 has 83 MA's), (29, 18494), (38, 18557), (52, 18680), (53, 18683), (55, 18689), (66, 18818), (67, 18830), (94, 19043), (102, 19145), (108, 19193), (118, 19274), (123, 19340), (127, 19370), (130, 19379), (133, 19406), (135, 19415), (147, 19496), (153, 19550), (158, 19601), (165, 19616), (174, 19652), (240, 19964), (272, 20090), (279, 20129), (281, 20141),

Gene: FireCastle_21 Start: 16238, Stop: 18142, Start Num: 14
Candidate Starts for FireCastle_21:
(Start: 14 @16238 has 83 MA's), (22, 16289), (26, 16313), (35, 16361), (37, 16385), (38, 16388), (45, 16448), (50, 16484), (56, 16535), (63, 16628), (70, 16694), (87, 16841), (90, 16871), (91, 16874), (97, 16934), (106, 17048), (116, 17111), (122, 17183), (124, 17204), (127, 17228), (135, 17273), (137, 17294), (142, 17321), (149, 17366), (155, 17426), (176, 17540), (221, 17756), (222, 17765), (231, 17813), (253, 17900), (260, 17933), (278, 18023),

Gene: FountainFog_30 Start: 17995, Stop: 19764, Start Num: 14
Candidate Starts for FountainFog_30:
(7, 17965), (8, 17968), (Start: 9 @17980 has 2 MA's), (10, 17992), (Start: 14 @17995 has 83 MA's), (29, 18097), (38, 18160), (52, 18283), (55, 18292), (63, 18394), (66, 18421), (67, 18433), (81, 18532), (102, 18748), (108, 18796), (119, 18880), (123, 18943), (127, 18973), (130, 18982), (135, 19018), (158, 19204), (165, 19219), (174, 19255), (202, 19384), (240, 19567), (281, 19744),

Gene: FreddieHg_30 Start: 17856, Stop: 19625, Start Num: 14
Candidate Starts for FreddieHg_30:
(Start: 14 @17856 has 83 MA's), (29, 17958), (38, 18021), (52, 18144), (53, 18147), (55, 18153), (66, 18282), (67, 18294), (78, 18372), (89, 18462), (94, 18507), (102, 18609), (108, 18657), (123, 18804), (127, 18834), (130, 18843), (133, 18870), (135, 18879), (147, 18960), (153, 19014), (158, 19065), (165, 19080), (174, 19116), (204, 19254), (234, 19410), (240, 19428), (281, 19605),

Gene: Gilda_31 Start: 18679, Stop: 20457, Start Num: 14
Candidate Starts for Gilda_31:
(2, 18514), (6, 18640), (Start: 14 @18679 has 83 MA's), (29, 18781), (33, 18802), (38, 18844), (41, 18880), (52, 18967), (66, 19105), (78, 19195), (90, 19297), (102, 19432), (108, 19480), (118, 19561), (123, 19627), (127, 19657), (130, 19666), (133, 19693), (135, 19702), (153, 19837), (158, 19888), (165, 19903), (174, 19939), (181, 19987), (205, 20083), (210, 20122), (281, 20437),

Gene: Goodman_22 Start: 16381, Stop: 18258, Start Num: 14
Candidate Starts for Goodman_22:
(Start: 14 @16381 has 83 MA's), (33, 16510), (37, 16549), (38, 16552), (46, 16621), (51, 16666), (56, 16702), (67, 16831), (90, 17011), (91, 17014), (95, 17047), (103, 17152), (104, 17173), (107, 17191), (108, 17194), (127, 17368), (135, 17413), (138, 17440), (141, 17455), (144, 17479), (146, 17485), (149, 17506), (154, 17554), (188, 17722), (189, 17725), (197, 17746), (199, 17758), (215, 17833), (257, 18028), (260, 18049), (262, 18058), (268, 18091), (282, 18157), (288, 18187), (295, 18229),

Gene: Guzman_25 Start: 14840, Stop: 16702, Start Num: 14
Candidate Starts for Guzman_25:

(1, 14615), (7, 14810), (Start: 14 @14840 has 83 MA's), (24, 14900), (27, 14921), (31, 14933), (37, 14987), (39, 15020), (57, 15149), (87, 15422), (90, 15452), (91, 15455), (93, 15470), (94, 15485), (100, 15557), (114, 15680), (121, 15752), (124, 15785), (127, 15809), (133, 15845), (136, 15857), (144, 15920), (186, 16148), (247, 16424), (253, 16451), (264, 16514), (282, 16601), (296, 16694),

Gene: Hager_32 Start: 18239, Stop: 20017, Start Num: 14
Candidate Starts for Hager_32:
(7, 18209), (8, 18212), (Start: 9 @18224 has 2 MA's), (10, 18236), (Start: 14 @18239 has 83 MA's), (29, 18341), (38, 18404), (52, 18527), (65, 18662), (66, 18665), (67, 18677), (78, 18755), (90, 18857), (102, 18992), (108, 19040), (109, 19049), (123, 19187), (127, 19217), (130, 19226), (133, 19253), (135, 19262), (153, 19397), (158, 19448), (165, 19463), (181, 19547), (210, 19682), (281, 19997),

Gene: Haunter_31 Start: 18092, Stop: 19870, Start Num: 14
Candidate Starts for Haunter_31:
(6, 18053), (Start: 14 @18092 has 83 MA's), (29, 18194), (33, 18215), (38, 18257), (41, 18293), (52, 18380), (66, 18518), (78, 18608), (90, 18710), (102, 18845), (108, 18893), (118, 18974), (123, 19040), (127, 19070), (130, 19079), (133, 19106), (135, 19115), (153, 19250), (158, 19301), (165, 19316), (174, 19352), (205, 19496), (210, 19535), (249, 19706), (281, 19850),

Gene: Hiddenleaf_30 Start: 17840, Stop: 19609, Start Num: 14
Candidate Starts for Hiddenleaf_30:
(Start: 14 @17840 has 83 MA's), (29, 17942), (38, 18005), (52, 18128), (53, 18131), (55, 18137), (66, 18266), (67, 18278), (78, 18356), (89, 18446), (94, 18491), (102, 18593), (108, 18641), (123, 18788), (127, 18818), (130, 18827), (133, 18854), (135, 18863), (147, 18944), (153, 18998), (158, 19049), (165, 19064), (174, 19100), (204, 19238), (234, 19394), (240, 19412), (281, 19589),

Gene: Htur_21 Start: 16411, Stop: 18312, Start Num: 14
Candidate Starts for Htur_21:
(Start: 14 @16411 has 83 MA's), (18, 16432), (19, 16438), (33, 16540), (37, 16579), (38, 16582), (46, 16651), (56, 16732), (59, 16762), (67, 16861), (71, 16903), (88, 17044), (90, 17065), (91, 17068), (95, 17101), (103, 17206), (107, 17245), (108, 17248), (117, 17308), (126, 17416), (127, 17422), (138, 17494), (141, 17509), (144, 17533), (146, 17539), (149, 17560), (154, 17608), (160, 17659), (170, 17680), (188, 17776), (197, 17800), (199, 17812), (212, 17875), (222, 17932), (233, 17986), (247, 18043), (253, 18070), (255, 18076), (257, 18082), (259, 18094), (268, 18145), (295, 18283),

Gene: IndiRoo_21 Start: 14680, Stop: 16581, Start Num: 14
Candidate Starts for IndiRoo_21:
(Start: 14 @14680 has 83 MA's), (22, 14731), (37, 14827), (38, 14830), (39, 14860), (45, 14890), (56, 14977), (57, 14989), (59, 15007), (67, 15109), (68, 15121), (71, 15148), (87, 15283), (90, 15313), (91, 15316), (94, 15346), (100, 15418), (114, 15541), (124, 15646), (127, 15670), (135, 15715), (136, 15718), (137, 15736), (139, 15745), (140, 15754), (141, 15757), (143, 15766), (149, 15808), (155, 15868), (163, 15916), (176, 15982), (191, 16048), (196, 16072), (221, 16195), (222, 16204), (231, 16252), (239, 16285), (253, 16339), (260, 16372), (278, 16462), (291, 16525),

Gene: JDawG_30 Start: 18422, Stop: 20188, Start Num: 14
Candidate Starts for JDawG_30:
(Start: 14 @18422 has 83 MA's), (29, 18524), (38, 18587), (46, 18647), (52, 18710), (53, 18713), (55, 18719), (66, 18848), (67, 18860), (102, 19172), (108, 19220), (127, 19397), (130, 19406), (135, 19442), (147, 19523), (153, 19577), (158, 19628), (165, 19643), (174, 19679), (181, 19727), (210, 19862), (240, 19991), (272, 20117), (279, 20156), (281, 20168),

Gene: Jakelyne_25 Start: 14641, Stop: 16509, Start Num: 14
Candidate Starts for Jakelyne_25:

(1, 14416), (7, 14611), (Start: 14 @14641 has 83 MA's), (24, 14701), (27, 14722), (31, 14734), (37, 14788), (39, 14821), (57, 14950), (64, 15043), (85, 15199), (90, 15253), (91, 15256), (94, 15286), (100, 15358), (114, 15481), (124, 15586), (127, 15610), (136, 15658), (186, 15955), (201, 16006), (205, 16024), (209, 16051), (214, 16069), (216, 16084), (247, 16231), (253, 16258), (264, 16321), (282, 16408), (296, 16501),

Gene: Jera_22 Start: 15478, Stop: 17370, Start Num: 14
Candidate Starts for Jera_22:
(Start: 14 @15478 has 83 MA's), (33, 15607), (37, 15646), (46, 15718), (56, 15799), (57, 15811), (67, 15928), (76, 15994), (88, 16087), (90, 16108), (91, 16111), (95, 16144), (103, 16249), (108, 16291), (110, 16309), (126, 16459), (127, 16465), (138, 16537), (141, 16552), (144, 16576), (146, 16582), (149, 16603), (154, 16651), (186, 16816), (187, 16822), (198, 16852), (203, 16876), (205, 16885), (206, 16891), (209, 16912), (216, 16945), (244, 17080), (250, 17110), (253, 17119), (255, 17125), (293, 17314), (294, 17335),

Gene: JingleBells_30 Start: 17956, Stop: 19725, Start Num: 14
Candidate Starts for JingleBells_30:
(4, 17887), (Start: 14 @17956 has 83 MA's), (29, 18058), (38, 18121), (52, 18244), (53, 18247), (55, 18253), (66, 18382), (67, 18394), (94, 18607), (102, 18709), (108, 18757), (118, 18838), (123, 18904), (127, 18934), (130, 18943), (133, 18970), (135, 18979), (147, 19060), (153, 19114), (158, 19165), (165, 19180), (174, 19216), (240, 19528), (272, 19654), (279, 19693), (281, 19705),

Gene: Johann_22 Start: 16381, Stop: 18258, Start Num: 14
Candidate Starts for Johann_22:
(Start: 14 @16381 has 83 MA's), (33, 16510), (37, 16549), (38, 16552), (46, 16621), (51, 16666), (56, 16702), (67, 16831), (90, 17011), (91, 17014), (95, 17047), (103, 17152), (104, 17173), (107, 17191), (108, 17194), (127, 17368), (135, 17413), (138, 17440), (141, 17455), (144, 17479), (146, 17485), (149, 17506), (154, 17554), (188, 17722), (189, 17725), (197, 17746), (199, 17758), (215, 17833), (257, 18028), (260, 18049), (262, 18058), (268, 18091), (282, 18157), (288, 18187), (295, 18229),

Gene: Kamdara_17 Start: 13660, Stop: 15666, Start Num: 11
Candidate Starts for Kamdara_17:
(Start: 11 @13660 has 11 MA's), (34, 13777), (40, 13846), (43, 13864), (44, 13876), (49, 13906), (54, 13957), (55, 13960), (56, 13969), (60, 14002), (66, 14080), (72, 14122), (82, 14179), (84, 14203), (92, 14266), (97, 14320), (102, 14392), (105, 14431), (106, 14434), (124, 14593), (127, 14617), (134, 14659), (135, 14662), (139, 14692), (148, 14746), (150, 14758), (153, 14794), (154, 14803), (157, 14836), (159, 14848), (186, 14977), (208, 15064), (218, 15121), (219, 15124), (220, 15136), (228, 15184), (238, 15220), (282, 15436), (284, 15454), (287, 15460), (298, 15610), (299, 15619),

Gene: Kate_31 Start: 18687, Stop: 20465, Start Num: 14
Candidate Starts for Kate_31:
(2, 18522), (6, 18648), (Start: 14 @18687 has 83 MA's), (29, 18789), (33, 18810), (38, 18852), (41, 18888), (52, 18975), (66, 19113), (78, 19203), (90, 19305), (101, 19431), (102, 19440), (108, 19488), (118, 19569), (123, 19635), (127, 19665), (130, 19674), (133, 19701), (135, 19710), (153, 19845), (158, 19896), (165, 19911), (174, 19947), (181, 19995), (210, 20130), (281, 20445),

Gene: Kenzers_18 Start: 13986, Stop: 15836, Start Num: 11
Candidate Starts for Kenzers_18:
(Start: 11 @13986 has 11 MA's), (41, 14175), (47, 14217), (49, 14232), (50, 14244), (66, 14406), (105, 14757), (134, 14985), (139, 15018), (150, 15084), (207, 15375), (211, 15396), (220, 15441), (237, 15519), (246, 15558), (261, 15627), (270, 15675), (275, 15702), (277, 15711), (286, 15762),

Gene: Kieran_17 Start: 13664, Stop: 15670, Start Num: 11

Candidate Starts for Kieran_17:
(Start: 11 @13664 has 11 MA's), (34, 13781), (40, 13850), (43, 13868), (44, 13880), (49, 13910), (54, 13961), (55, 13964), (56, 13973), (60, 14006), (66, 14084), (72, 14126), (82, 14183), (84, 14207), (92, 14270), (97, 14324), (102, 14396), (105, 14435), (106, 14438), (124, 14597), (127, 14621), (134, 14663), (135, 14666), (139, 14696), (148, 14750), (150, 14762), (153, 14798), (154, 14807), (157, 14840), (159, 14852), (186, 14981), (208, 15068), (218, 15125), (219, 15128), (220, 15140), (228, 15188), (238, 15224), (282, 15440), (284, 15458), (287, 15464), (298, 15614), (299, 15623),

Gene: Kors_32 Start: 18548, Stop: 20482, Start Num: 14
Candidate Starts for Kors_32:
(7, 18518), (8, 18521), (Start: 9 @18533 has 2 MA's), (10, 18545), (Start: 14 @18548 has 83 MA's), (23, 18608), (32, 18659), (41, 18749), (48, 18779), (52, 18836), (53, 18839), (62, 18929), (71, 19016), (81, 19097), (90, 19181), (98, 19256), (102, 19316), (112, 19397), (119, 19448), (127, 19541), (128, 19544), (130, 19550), (141, 19628), (147, 19664), (150, 19682), (177, 19838), (195, 19922), (200, 19946), (242, 20162), (251, 20204), (276, 20321), (280, 20342),

Gene: Krampus_31 Start: 18685, Stop: 20463, Start Num: 14
Candidate Starts for Krampus_31:
(2, 18520), (6, 18646), (Start: 14 @18685 has 83 MA's), (29, 18787), (33, 18808), (38, 18850), (41, 18886), (52, 18973), (66, 19111), (78, 19201), (90, 19303), (102, 19438), (108, 19486), (118, 19567), (123, 19633), (127, 19663), (130, 19672), (135, 19708), (153, 19843), (158, 19894), (165, 19909), (174, 19945), (181, 19993), (210, 20128), (281, 20443),

Gene: Labella_23 Start: 16361, Stop: 18253, Start Num: 14
Candidate Starts for Labella_23:
(Start: 14 @16361 has 83 MA's), (33, 16490), (37, 16529), (38, 16532), (46, 16601), (53, 16667), (56, 16682), (57, 16694), (67, 16811), (88, 16970), (90, 16991), (91, 16994), (95, 17027), (103, 17132), (107, 17171), (108, 17174), (110, 17192), (111, 17204), (126, 17342), (127, 17348), (138, 17420), (141, 17435), (144, 17459), (146, 17465), (149, 17486), (154, 17534), (186, 17699), (187, 17705), (198, 17735), (205, 17768), (206, 17774), (216, 17828), (244, 17963), (253, 18002), (259, 18026), (293, 18197), (294, 18218),

Gene: Lesiram_23 Start: 15098, Stop: 16786, Start Num: 14
Candidate Starts for Lesiram_23:
(Start: 14 @15098 has 83 MA's), (37, 15245), (38, 15248), (67, 15527), (68, 15539), (76, 15593), (90, 15710), (91, 15713), (92, 15719), (98, 15785), (103, 15851), (113, 15935), (124, 16043), (127, 16067), (129, 16073), (133, 16103), (136, 16115), (140, 16151), (143, 16163), (144, 16178), (145, 16181), (149, 16205), (153, 16244), (155, 16265), (161, 16301), (176, 16364), (213, 16526), (240, 16661), (247, 16688), (252, 16712),

Gene: Linayshia_21 Start: 16403, Stop: 18304, Start Num: 14
Candidate Starts for Linayshia_21:
(Start: 14 @16403 has 83 MA's), (18, 16424), (19, 16430), (33, 16532), (37, 16571), (38, 16574), (46, 16643), (56, 16724), (59, 16754), (67, 16853), (71, 16895), (88, 17036), (90, 17057), (91, 17060), (95, 17093), (103, 17198), (107, 17237), (108, 17240), (117, 17300), (126, 17408), (127, 17414), (138, 17486), (141, 17501), (144, 17525), (146, 17531), (149, 17552), (154, 17600), (160, 17651), (170, 17672), (188, 17768), (197, 17792), (199, 17804), (212, 17867), (222, 17924), (233, 17978), (247, 18035), (253, 18062), (255, 18068), (257, 18074), (259, 18086), (268, 18137), (295, 18275),

Gene: LordBart_32 Start: 18464, Stop: 20398, Start Num: 14
Candidate Starts for LordBart_32:
(7, 18434), (8, 18437), (Start: 9 @18449 has 2 MA's), (10, 18461), (Start: 14 @18464 has 83 MA's), (23, 18524), (32, 18575), (41, 18665), (48, 18695), (52, 18752), (53, 18755), (62, 18845), (71, 18932),

(81, 19013), (90, 19097), (98, 19172), (102, 19232), (112, 19313), (119, 19364), (127, 19457), (128, 19460), (130, 19466), (141, 19544), (147, 19580), (150, 19598), (177, 19754), (195, 19838), (200, 19862), (242, 20078), (251, 20120), (276, 20237), (280, 20258),

Gene: Losacky_25 Start: 14705, Stop: 16573, Start Num: 14
Candidate Starts for Losacky_25:
(1, 14480), (7, 14675), (Start: 14 @14705 has 83 MA's), (24, 14765), (27, 14786), (31, 14798), (37, 14852), (39, 14885), (41, 14891), (64, 15107), (85, 15263), (90, 15317), (91, 15320), (94, 15350), (100, 15422), (114, 15545), (121, 15617), (124, 15650), (127, 15674), (136, 15722), (144, 15785), (186, 16019), (201, 16070), (205, 16088), (209, 16115), (214, 16133), (216, 16148), (247, 16295), (253, 16322), (264, 16385), (282, 16472), (296, 16565),

Gene: Lynlen_18 Start: 13986, Stop: 15836, Start Num: 11
Candidate Starts for Lynlen_18:
(Start: 11 @13986 has 11 MA's), (41, 14175), (47, 14217), (49, 14232), (50, 14244), (66, 14406), (105, 14757), (134, 14985), (139, 15018), (150, 15084), (207, 15375), (211, 15396), (220, 15441), (237, 15519), (246, 15558), (261, 15627), (270, 15675), (275, 15702), (277, 15711), (286, 15762),

Gene: Mariel_25 Start: 14997, Stop: 16865, Start Num: 14
Candidate Starts for Mariel_25:
(1, 14772), (7, 14967), (Start: 14 @14997 has 83 MA's), (24, 15057), (27, 15078), (31, 15090), (37, 15144), (39, 15177), (41, 15183), (57, 15306), (90, 15609), (91, 15612), (94, 15642), (100, 15714), (114, 15837), (124, 15942), (127, 15966), (136, 16014), (186, 16311), (201, 16362), (205, 16380), (214, 16425), (216, 16440), (247, 16587), (253, 16614), (264, 16677), (282, 16764), (296, 16857),

Gene: MenE_24 Start: 14693, Stop: 16561, Start Num: 14
Candidate Starts for MenE_24:
(1, 14468), (7, 14663), (Start: 14 @14693 has 83 MA's), (24, 14753), (27, 14774), (31, 14786), (37, 14840), (39, 14873), (41, 14879), (64, 15095), (85, 15251), (90, 15305), (91, 15308), (94, 15338), (100, 15410), (114, 15533), (121, 15605), (124, 15638), (127, 15662), (136, 15710), (144, 15773), (186, 16007), (201, 16058), (205, 16076), (209, 16103), (214, 16121), (216, 16136), (247, 16283), (253, 16310), (264, 16373), (282, 16460), (296, 16553),

Gene: Milani_22 Start: 15329, Stop: 17206, Start Num: 14
Candidate Starts for Milani_22:
(Start: 14 @15329 has 83 MA's), (22, 15380), (37, 15476), (38, 15479), (45, 15539), (59, 15656), (67, 15758), (68, 15770), (76, 15845), (87, 15932), (90, 15962), (91, 15965), (94, 15995), (97, 16025), (98, 16037), (100, 16067), (115, 16199), (124, 16295), (127, 16319), (135, 16364), (136, 16367), (139, 16394), (141, 16406), (143, 16415), (149, 16457), (155, 16517), (192, 16685), (217, 16802), (227, 16859), (231, 16877), (235, 16889), (236, 16892), (241, 16916), (253, 16964), (260, 16997), (272, 17051),

Gene: Milomuff_19 Start: 14384, Stop: 16222, Start Num: 11
Candidate Starts for Milomuff_19:
(Start: 11 @14384 has 11 MA's), (41, 14573), (47, 14615), (49, 14630), (57, 14705), (63, 14777), (66, 14804), (67, 14816), (105, 15155), (134, 15383), (139, 15416), (156, 15548), (175, 15614), (180, 15653), (182, 15668), (201, 15737), (236, 15905), (242, 15932), (249, 15962), (262, 16022), (263, 16025), (275, 16088), (277, 16097),

Gene: MortySmith_29 Start: 17815, Stop: 19581, Start Num: 14
Candidate Starts for MortySmith_29:
(Start: 14 @17815 has 83 MA's), (29, 17917), (38, 17980), (52, 18103), (53, 18106), (55, 18112), (66, 18241), (67, 18253), (102, 18565), (108, 18613), (127, 18790), (130, 18799), (135, 18835), (147,

18916), (158, 19021), (165, 19036), (174, 19072), (210, 19255), (240, 19384), (281, 19561),

Gene: NCRodriguez_25 Start: 14754, Stop: 16613, Start Num: 14
Candidate Starts for NCRodriguez_25:
(7, 14724), (Start: 14 @14754 has 83 MA's), (24, 14814), (27, 14835), (31, 14847), (37, 14901), (39, 14934), (57, 15063), (67, 15177), (79, 15252), (85, 15303), (87, 15327), (91, 15360), (94, 15390), (97, 15420), (100, 15462), (114, 15585), (124, 15690), (127, 15714), (136, 15762), (186, 16059), (201, 16110), (205, 16128), (209, 16155), (214, 16173), (216, 16188), (247, 16335), (253, 16362), (264, 16425), (282, 16512), (296, 16605),

Gene: NarutoRun_31 Start: 18678, Stop: 20456, Start Num: 14
Candidate Starts for NarutoRun_31:
(2, 18513), (5, 18636), (6, 18639), (Start: 14 @18678 has 83 MA's), (29, 18780), (33, 18801), (38, 18843), (41, 18879), (52, 18966), (66, 19104), (78, 19194), (90, 19296), (102, 19431), (108, 19479), (118, 19560), (123, 19626), (127, 19656), (130, 19665), (133, 19692), (135, 19701), (153, 19836), (158, 19887), (165, 19902), (174, 19938), (181, 19986), (210, 20121), (281, 20436),

Gene: Neptune_31 Start: 18655, Stop: 20433, Start Num: 14
Candidate Starts for Neptune_31:
(2, 18490), (6, 18616), (Start: 14 @18655 has 83 MA's), (29, 18757), (33, 18778), (38, 18820), (41, 18856), (52, 18943), (66, 19081), (78, 19171), (90, 19273), (101, 19399), (102, 19408), (108, 19456), (118, 19537), (123, 19603), (127, 19633), (130, 19642), (133, 19669), (135, 19678), (153, 19813), (158, 19864), (165, 19879), (174, 19915), (181, 19963), (205, 20059), (210, 20098), (281, 20413),

Gene: OhDear_31 Start: 18684, Stop: 20462, Start Num: 14
Candidate Starts for OhDear_31:
(2, 18519), (6, 18645), (Start: 14 @18684 has 83 MA's), (29, 18786), (33, 18807), (38, 18849), (41, 18885), (52, 18972), (66, 19110), (78, 19200), (90, 19302), (101, 19428), (102, 19437), (108, 19485), (118, 19566), (123, 19632), (127, 19662), (130, 19671), (133, 19698), (135, 19707), (153, 19842), (158, 19893), (165, 19908), (174, 19944), (181, 19992), (210, 20127), (281, 20442),

Gene: Olympi_23 Start: 16368, Stop: 18245, Start Num: 14
Candidate Starts for Olympi_23:
(Start: 14 @16368 has 83 MA's), (33, 16497), (37, 16536), (38, 16539), (46, 16608), (51, 16653), (56, 16689), (67, 16818), (90, 16998), (91, 17001), (95, 17034), (96, 17058), (103, 17139), (107, 17178), (108, 17181), (120, 17271), (127, 17355), (138, 17427), (141, 17442), (144, 17466), (146, 17472), (149, 17493), (154, 17541), (188, 17709), (189, 17712), (197, 17733), (199, 17745), (215, 17820), (257, 18015), (260, 18036), (262, 18045), (268, 18078), (282, 18144), (288, 18174), (295, 18216),

Gene: OverHedge_31 Start: 18645, Stop: 20423, Start Num: 14
Candidate Starts for OverHedge_31:
(2, 18480), (6, 18606), (Start: 14 @18645 has 83 MA's), (29, 18747), (33, 18768), (38, 18810), (41, 18846), (52, 18933), (66, 19071), (78, 19161), (90, 19263), (101, 19389), (102, 19398), (108, 19446), (118, 19527), (123, 19593), (127, 19623), (130, 19632), (133, 19659), (135, 19668), (153, 19803), (158, 19854), (165, 19869), (174, 19905), (181, 19953), (210, 20088), (281, 20403),

Gene: PermaG_22 Start: 16442, Stop: 18325, Start Num: 14
Candidate Starts for PermaG_22:
(7, 16412), (Start: 14 @16442 has 83 MA's), (33, 16571), (37, 16610), (38, 16613), (46, 16682), (56, 16763), (67, 16892), (78, 16970), (90, 17072), (91, 17075), (103, 17213), (107, 17252), (108, 17255), (123, 17399), (127, 17429), (141, 17516), (144, 17540), (146, 17546), (149, 17567), (154, 17615), (188, 17783), (189, 17786), (197, 17807), (199, 17819), (229, 17975), (247, 18050), (250, 18068), (264, 18137), (282, 18224), (283, 18227), (290, 18260),

Gene: Pharpay_31 Start: 18700, Stop: 20478, Start Num: 14
Candidate Starts for Pharpay_31:
(2, 18535), (6, 18661), (Start: 14 @18700 has 83 MA's), (29, 18802), (33, 18823), (38, 18865), (41, 18901), (52, 18988), (66, 19126), (78, 19216), (102, 19453), (108, 19501), (118, 19582), (123, 19648), (127, 19678), (130, 19687), (135, 19723), (153, 19858), (158, 19909), (165, 19924), (174, 19960), (181, 20008), (205, 20104), (210, 20143), (281, 20458),

Gene: PhillyJawn_24 Start: 14425, Stop: 16293, Start Num: 14
Candidate Starts for PhillyJawn_24:
(1, 14200), (7, 14395), (Start: 14 @14425 has 83 MA's), (24, 14485), (27, 14506), (31, 14518), (37, 14572), (39, 14605), (57, 14734), (64, 14827), (85, 14983), (90, 15037), (91, 15040), (94, 15070), (100, 15142), (114, 15265), (124, 15370), (127, 15394), (136, 15442), (186, 15739), (201, 15790), (205, 15808), (214, 15853), (216, 15868), (247, 16015), (253, 16042), (264, 16105), (282, 16192), (296, 16285),

Gene: Phingu_26 Start: 14644, Stop: 16512, Start Num: 14
Candidate Starts for Phingu_26:
(1, 14419), (7, 14614), (Start: 14 @14644 has 83 MA's), (24, 14704), (27, 14725), (31, 14737), (37, 14791), (39, 14824), (57, 14953), (64, 15046), (85, 15202), (90, 15256), (91, 15259), (94, 15289), (100, 15361), (114, 15484), (121, 15556), (124, 15589), (127, 15613), (136, 15661), (144, 15724), (186, 15958), (201, 16009), (205, 16027), (214, 16072), (216, 16087), (247, 16234), (253, 16261), (264, 16324), (282, 16411), (296, 16504),

Gene: Phonegingi_23 Start: 14486, Stop: 16339, Start Num: 14
Candidate Starts for Phonegingi_23:
(1, 14261), (7, 14456), (Start: 14 @14486 has 83 MA's), (24, 14546), (27, 14567), (31, 14579), (37, 14633), (39, 14666), (57, 14795), (77, 14984), (85, 15044), (90, 15098), (91, 15101), (94, 15131), (100, 15203), (114, 15326), (119, 15365), (121, 15398), (124, 15431), (127, 15455), (136, 15503), (139, 15530), (143, 15551), (149, 15593), (152, 15620), (201, 15851), (205, 15869), (232, 16016), (253, 16103), (257, 16115), (266, 16160), (271, 16172), (274, 16193), (288, 16268), (295, 16310), (296, 16331),

Gene: PhunaPhoke_31 Start: 18673, Stop: 20451, Start Num: 14
Candidate Starts for PhunaPhoke_31:
(2, 18508), (6, 18634), (Start: 14 @18673 has 83 MA's), (29, 18775), (33, 18796), (38, 18838), (41, 18874), (52, 18961), (66, 19099), (78, 19189), (90, 19291), (101, 19417), (102, 19426), (108, 19474), (118, 19555), (123, 19621), (127, 19651), (130, 19660), (133, 19687), (135, 19696), (153, 19831), (158, 19882), (165, 19897), (174, 19933), (181, 19981), (205, 20077), (210, 20116), (281, 20431),

Gene: Pickles13_23 Start: 14850, Stop: 16718, Start Num: 14
Candidate Starts for Pickles13_23:
(1, 14625), (7, 14820), (Start: 14 @14850 has 83 MA's), (24, 14910), (27, 14931), (31, 14943), (37, 14997), (39, 15030), (40, 15033), (87, 15432), (90, 15462), (91, 15465), (94, 15495), (100, 15567), (114, 15690), (121, 15762), (124, 15795), (127, 15819), (133, 15855), (136, 15867), (139, 15894), (144, 15930), (156, 16026), (186, 16164), (205, 16233), (209, 16260), (247, 16440), (253, 16467), (264, 16530), (282, 16617), (296, 16710),

Gene: Potty_31 Start: 18678, Stop: 20456, Start Num: 14
Candidate Starts for Potty_31:
(2, 18513), (6, 18639), (Start: 14 @18678 has 83 MA's), (29, 18780), (33, 18801), (38, 18843), (41, 18879), (52, 18966), (66, 19104), (78, 19194), (90, 19296), (102, 19431), (108, 19479), (118, 19560), (123, 19626), (127, 19656), (130, 19665), (135, 19701), (153, 19836), (158, 19887), (165, 19902),

(174, 19938), (181, 19986), (210, 20121), (281, 20436),

Gene: Rachella_31 Start: 18681, Stop: 20459, Start Num: 14
Candidate Starts for Rachella_31:
(2, 18516), (6, 18642), (Start: 14 @18681 has 83 MA's), (29, 18783), (33, 18804), (38, 18846), (41, 18882), (52, 18969), (66, 19107), (78, 19197), (90, 19299), (102, 19434), (108, 19482), (118, 19563), (123, 19629), (127, 19659), (130, 19668), (133, 19695), (135, 19704), (153, 19839), (158, 19890), (165, 19905), (174, 19941), (181, 19989), (205, 20085), (210, 20124), (249, 20295), (281, 20439),

Gene: Rasovi_21 Start: 16411, Stop: 18312, Start Num: 14
Candidate Starts for Rasovi_21:
(Start: 14 @16411 has 83 MA's), (18, 16432), (19, 16438), (33, 16540), (38, 16582), (46, 16651), (56, 16732), (59, 16762), (67, 16861), (71, 16903), (88, 17044), (90, 17065), (91, 17068), (95, 17101), (103, 17206), (107, 17245), (108, 17248), (117, 17308), (126, 17416), (127, 17422), (138, 17494), (141, 17509), (144, 17533), (146, 17539), (149, 17560), (154, 17608), (160, 17659), (170, 17680), (188, 17776), (197, 17800), (199, 17812), (212, 17875), (222, 17932), (233, 17986), (247, 18043), (253, 18070), (255, 18076), (257, 18082), (259, 18094), (268, 18145), (295, 18283),

Gene: Rie18_31 Start: 18192, Stop: 19970, Start Num: 14
Candidate Starts for Rie18_31:
(7, 18162), (8, 18165), (Start: 9 @18177 has 2 MA's), (10, 18189), (Start: 14 @18192 has 83 MA's), (29, 18294), (38, 18357), (52, 18480), (66, 18618), (67, 18630), (78, 18708), (90, 18810), (102, 18945), (108, 18993), (119, 19077), (123, 19140), (127, 19170), (130, 19179), (133, 19206), (135, 19215), (147, 19296), (153, 19350), (158, 19401), (165, 19416), (181, 19500), (210, 19635), (226, 19725), (281, 19950),

Gene: RikSengupta_32 Start: 18570, Stop: 20519, Start Num: 9
Candidate Starts for RikSengupta_32:
(7, 18555), (8, 18558), (Start: 9 @18570 has 2 MA's), (10, 18582), (Start: 14 @18585 has 83 MA's), (23, 18645), (32, 18696), (41, 18786), (48, 18816), (52, 18873), (53, 18876), (58, 18906), (62, 18966), (71, 19053), (81, 19134), (90, 19218), (98, 19293), (102, 19353), (112, 19434), (119, 19485), (127, 19578), (128, 19581), (130, 19587), (141, 19665), (147, 19701), (150, 19719), (177, 19875), (195, 19959), (200, 19983), (242, 20199), (251, 20241), (276, 20358), (280, 20379),

Gene: Rona_17 Start: 13661, Stop: 15667, Start Num: 11
Candidate Starts for Rona_17:
(Start: 11 @13661 has 11 MA's), (34, 13778), (40, 13847), (43, 13865), (44, 13877), (49, 13907), (54, 13958), (55, 13961), (56, 13970), (60, 14003), (66, 14081), (72, 14123), (82, 14180), (84, 14204), (92, 14267), (97, 14321), (102, 14393), (105, 14432), (106, 14435), (124, 14594), (127, 14618), (134, 14660), (135, 14663), (139, 14693), (148, 14747), (150, 14759), (153, 14795), (154, 14804), (157, 14837), (159, 14849), (186, 14978), (208, 15065), (218, 15122), (219, 15125), (220, 15137), (228, 15185), (238, 15221), (282, 15437), (284, 15455), (287, 15461), (298, 15611), (299, 15620),

Gene: Rootkit7_21 Start: 16231, Stop: 18123, Start Num: 14
Candidate Starts for Rootkit7_21:
(Start: 14 @16231 has 83 MA's), (33, 16360), (37, 16399), (46, 16471), (56, 16552), (57, 16564), (67, 16681), (72, 16723), (88, 16840), (90, 16861), (91, 16864), (95, 16897), (103, 17002), (107, 17041), (108, 17044), (111, 17074), (126, 17212), (127, 17218), (138, 17290), (141, 17305), (144, 17329), (149, 17356), (154, 17404), (186, 17569), (198, 17605), (203, 17629), (205, 17638), (206, 17644), (216, 17698), (244, 17833), (255, 17878), (259, 17896), (262, 17914), (282, 18022), (294, 18088),

Gene: SBlackberry_21 Start: 16237, Stop: 18123, Start Num: 14
Candidate Starts for SBlackberry_21:

(Start: 14 @16237 has 83 MA's), (33, 16366), (37, 16405), (46, 16477), (56, 16558), (57, 16570), (67, 16687), (72, 16729), (88, 16846), (90, 16867), (91, 16870), (95, 16903), (103, 17008), (107, 17047), (108, 17050), (111, 17080), (126, 17218), (127, 17224), (138, 17296), (141, 17311), (144, 17335), (146, 17341), (149, 17362), (154, 17410), (164, 17467), (183, 17566), (186, 17575), (187, 17581), (203, 17635), (209, 17671), (257, 17893), (260, 17914), (262, 17923), (268, 17956), (282, 18022), (288, 18052), (295, 18094),

Gene: SafetyGuy_31 Start: 18684, Stop: 20462, Start Num: 14
Candidate Starts for SafetyGuy_31:
(2, 18519), (6, 18645), (Start: 14 @18684 has 83 MA's), (29, 18786), (33, 18807), (38, 18849), (41, 18885), (52, 18972), (66, 19110), (78, 19200), (90, 19302), (102, 19437), (108, 19485), (118, 19566), (123, 19632), (127, 19662), (130, 19671), (135, 19707), (153, 19842), (158, 19893), (165, 19908), (174, 19944), (181, 19992), (210, 20127), (281, 20442),

Gene: ScoobySnack_22 Start: 14554, Stop: 16422, Start Num: 14
Candidate Starts for ScoobySnack_22:
(1, 14329), (7, 14524), (Start: 14 @14554 has 83 MA's), (24, 14614), (27, 14635), (31, 14647), (37, 14701), (46, 14770), (57, 14863), (74, 15034), (90, 15166), (91, 15169), (94, 15199), (98, 15241), (100, 15271), (114, 15394), (121, 15466), (124, 15499), (127, 15523), (133, 15559), (136, 15571), (143, 15619), (144, 15634), (186, 15868), (209, 15964), (214, 15982), (223, 16036), (243, 16126), (253, 16171), (273, 16267), (296, 16414),

Gene: Sharkboy_17 Start: 13660, Stop: 15654, Start Num: 11
Candidate Starts for Sharkboy_17:
(Start: 11 @13660 has 11 MA's), (30, 13753), (43, 13864), (49, 13906), (56, 13969), (66, 14080), (77, 14149), (92, 14266), (97, 14320), (127, 14617), (134, 14659), (139, 14692), (147, 14740), (153, 14794), (184, 14971), (186, 14977), (194, 15001), (218, 15106), (236, 15199), (258, 15292), (265, 15355), (284, 15457), (292, 15478), (297, 15544),

Gene: Shayna_17 Start: 13717, Stop: 15447, Start Num: 12
Candidate Starts for Shayna_17:
(Start: 12 @13717 has 2 MA's), (13, 13720), (17, 13741), (21, 13759), (44, 13918), (49, 13948), (50, 13960), (66, 14122), (73, 14167), (132, 14692), (185, 15013), (248, 15313), (254, 15337), (267, 15409),

Gene: SilentWarrior_30 Start: 17848, Stop: 19617, Start Num: 14
Candidate Starts for SilentWarrior_30:
(Start: 14 @17848 has 83 MA's), (29, 17950), (38, 18013), (52, 18136), (53, 18139), (55, 18145), (66, 18274), (67, 18286), (94, 18499), (102, 18601), (108, 18649), (118, 18730), (123, 18796), (127, 18826), (130, 18835), (133, 18862), (135, 18871), (147, 18952), (153, 19006), (158, 19057), (165, 19072), (174, 19108), (181, 19156), (210, 19291), (240, 19420), (279, 19585), (281, 19597),

Gene: Snakehole_31 Start: 17937, Stop: 19706, Start Num: 14
Candidate Starts for Snakehole_31:
(Start: 14 @17937 has 83 MA's), (29, 18039), (38, 18102), (52, 18225), (53, 18228), (55, 18234), (66, 18363), (67, 18375), (78, 18453), (89, 18543), (94, 18588), (102, 18690), (108, 18738), (123, 18885), (127, 18915), (130, 18924), (133, 18951), (135, 18960), (147, 19041), (153, 19095), (158, 19146), (165, 19161), (174, 19197), (204, 19335), (234, 19491), (240, 19509), (281, 19686),

Gene: Solea_20 Start: 14384, Stop: 16222, Start Num: 11
Candidate Starts for Solea_20:
(Start: 11 @14384 has 11 MA's), (41, 14573), (47, 14615), (49, 14630), (57, 14705), (63, 14777), (66, 14804), (67, 14816), (105, 15155), (134, 15383), (139, 15416), (156, 15548), (175, 15614), (180,

15653), (182, 15668), (201, 15737), (236, 15905), (242, 15932), (249, 15962), (262, 16022), (263, 16025), (275, 16088), (277, 16097),

Gene: Sparcetus_32 Start: 18449, Stop: 20398, Start Num: 9
Candidate Starts for Sparcetus_32:
(7, 18434), (8, 18437), (Start: 9 @18449 has 2 MA's), (10, 18461), (Start: 14 @18464 has 83 MA's), (23, 18524), (32, 18575), (41, 18665), (48, 18695), (52, 18752), (53, 18755), (62, 18845), (71, 18932), (81, 19013), (90, 19097), (98, 19172), (102, 19232), (112, 19313), (119, 19364), (127, 19457), (128, 19460), (130, 19466), (141, 19544), (147, 19580), (150, 19598), (177, 19754), (195, 19838), (200, 19862), (242, 20078), (251, 20120), (276, 20237), (280, 20258),

Gene: Sucha_18 Start: 13667, Stop: 15568, Start Num: 14
Candidate Starts for Sucha_18:
(Start: 14 @13667 has 83 MA's), (22, 13718), (37, 13814), (38, 13817), (39, 13847), (42, 13856), (56, 13964), (57, 13976), (59, 13994), (67, 14096), (68, 14108), (71, 14135), (77, 14186), (87, 14270), (90, 14300), (91, 14303), (94, 14333), (119, 14567), (124, 14633), (127, 14657), (135, 14702), (136, 14705), (140, 14741), (141, 14744), (149, 14795), (155, 14855), (163, 14903), (221, 15182), (222, 15191), (231, 15239), (239, 15272), (245, 15293), (253, 15326), (278, 15449),

Gene: SunnyD_17 Start: 13717, Stop: 15447, Start Num: 12
Candidate Starts for SunnyD_17:
(Start: 12 @13717 has 2 MA's), (13, 13720), (17, 13741), (21, 13759), (44, 13918), (49, 13948), (50, 13960), (66, 14122), (73, 14167), (132, 14692), (185, 15013), (248, 15313), (254, 15337), (267, 15409),

Gene: Sweetums_24 Start: 15209, Stop: 16897, Start Num: 14
Candidate Starts for Sweetums_24:
(Start: 14 @15209 has 83 MA's), (37, 15356), (38, 15359), (58, 15521), (67, 15638), (68, 15650), (76, 15704), (90, 15821), (92, 15830), (98, 15896), (103, 15962), (113, 16046), (124, 16154), (127, 16178), (133, 16214), (136, 16226), (140, 16262), (143, 16274), (144, 16289), (145, 16292), (149, 16316), (153, 16355), (155, 16376), (161, 16412), (168, 16433), (178, 16490), (213, 16637), (222, 16688), (230, 16733), (242, 16778), (252, 16820),

Gene: Tedro_31 Start: 18151, Stop: 19929, Start Num: 14
Candidate Starts for Tedro_31:
(2, 17986), (6, 18112), (Start: 14 @18151 has 83 MA's), (29, 18253), (33, 18274), (38, 18316), (41, 18352), (52, 18439), (66, 18577), (78, 18667), (90, 18769), (101, 18895), (102, 18904), (108, 18952), (118, 19033), (123, 19099), (127, 19129), (130, 19138), (133, 19165), (135, 19174), (153, 19309), (158, 19360), (165, 19375), (174, 19411), (181, 19459), (205, 19555), (210, 19594), (249, 19765), (281, 19909),

Gene: Teng_23 Start: 15125, Stop: 16837, Start Num: 14
Candidate Starts for Teng_23:
(Start: 14 @15125 has 83 MA's), (37, 15272), (38, 15275), (46, 15341), (58, 15437), (69, 15581), (78, 15659), (80, 15677), (86, 15731), (90, 15764), (91, 15767), (92, 15773), (94, 15797), (98, 15839), (99, 15857), (103, 15905), (113, 15989), (118, 16028), (119, 16031), (124, 16097), (127, 16121), (133, 16157), (136, 16169), (143, 16217), (144, 16232), (145, 16235), (149, 16259), (151, 16274), (155, 16319), (162, 16358), (171, 16382), (178, 16433), (179, 16436), (193, 16490), (206, 16541), (207, 16547), (222, 16631), (234, 16688), (248, 16745),

Gene: Tiggy93_31 Start: 18684, Stop: 20462, Start Num: 14
Candidate Starts for Tiggy93_31:

(2, 18519), (6, 18645), (Start: 14 @18684 has 83 MA's), (29, 18786), (33, 18807), (38, 18849), (41, 18885), (52, 18972), (66, 19110), (78, 19200), (90, 19302), (101, 19428), (102, 19437), (108, 19485), (118, 19566), (123, 19632), (127, 19662), (130, 19671), (133, 19698), (135, 19707), (153, 19842), (158, 19893), (165, 19908), (174, 19944), (181, 19992), (205, 20088), (210, 20127), (249, 20298), (281, 20442),

Gene: TinyMiny_32 Start: 18483, Stop: 20417, Start Num: 14
Candidate Starts for TinyMiny_32:
(7, 18453), (8, 18456), (Start: 9 @18468 has 2 MA's), (10, 18480), (Start: 14 @18483 has 83 MA's), (23, 18543), (32, 18594), (41, 18684), (48, 18714), (52, 18771), (53, 18774), (62, 18864), (71, 18951), (81, 19032), (90, 19116), (98, 19191), (102, 19251), (112, 19332), (119, 19383), (127, 19476), (128, 19479), (130, 19485), (141, 19563), (147, 19599), (150, 19617), (177, 19773), (195, 19857), (200, 19881), (242, 20097), (251, 20139), (276, 20256), (280, 20277),

Gene: Tongui_30 Start: 18184, Stop: 19953, Start Num: 14
Candidate Starts for Tongui_30:
(7, 18154), (8, 18157), (Start: 9 @18169 has 2 MA's), (10, 18181), (Start: 14 @18184 has 83 MA's), (20, 18217), (29, 18286), (38, 18349), (52, 18472), (55, 18481), (63, 18583), (66, 18610), (67, 18622), (102, 18937), (108, 18985), (123, 19132), (127, 19162), (130, 19171), (133, 19198), (135, 19207), (158, 19393), (169, 19420), (174, 19444), (186, 19513), (190, 19525), (202, 19573), (204, 19582), (210, 19627), (224, 19693), (281, 19933),

Gene: TurboVicky_21 Start: 16231, Stop: 18123, Start Num: 14
Candidate Starts for TurboVicky_21:
(Start: 14 @16231 has 83 MA's), (33, 16360), (37, 16399), (38, 16402), (46, 16471), (56, 16552), (57, 16564), (67, 16681), (88, 16840), (90, 16861), (91, 16864), (95, 16897), (103, 17002), (107, 17041), (108, 17044), (110, 17062), (111, 17074), (126, 17212), (127, 17218), (138, 17290), (141, 17305), (144, 17329), (146, 17335), (149, 17356), (154, 17404), (186, 17569), (187, 17575), (198, 17605), (205, 17638), (206, 17644), (216, 17698), (223, 17737), (244, 17833), (255, 17878), (259, 17896), (282, 18022), (293, 18067), (294, 18088),

Gene: Typher_23 Start: 16361, Stop: 18253, Start Num: 14
Candidate Starts for Typher_23:
(Start: 14 @16361 has 83 MA's), (33, 16490), (37, 16529), (38, 16532), (46, 16601), (56, 16682), (57, 16694), (67, 16811), (88, 16970), (90, 16991), (91, 16994), (95, 17027), (103, 17132), (107, 17171), (108, 17174), (110, 17192), (111, 17204), (126, 17342), (127, 17348), (138, 17420), (141, 17435), (144, 17459), (146, 17465), (149, 17486), (154, 17534), (186, 17699), (187, 17705), (198, 17735), (205, 17768), (206, 17774), (216, 17828), (244, 17963), (253, 18002), (259, 18026), (293, 18197), (294, 18218),

Gene: Violeta_25 Start: 14523, Stop: 16391, Start Num: 14
Candidate Starts for Violeta_25:
(1, 14298), (7, 14493), (Start: 14 @14523 has 83 MA's), (24, 14583), (27, 14604), (31, 14616), (37, 14670), (39, 14703), (57, 14832), (64, 14925), (85, 15081), (90, 15135), (91, 15138), (94, 15168), (100, 15240), (114, 15363), (124, 15468), (127, 15492), (136, 15540), (186, 15837), (201, 15888), (205, 15906), (209, 15933), (214, 15951), (216, 15966), (247, 16113), (253, 16140), (264, 16203), (282, 16290), (296, 16383),

Gene: Warren_24 Start: 14623, Stop: 16491, Start Num: 14
Candidate Starts for Warren_24:
(1, 14398), (7, 14593), (Start: 14 @14623 has 83 MA's), (24, 14683), (27, 14704), (31, 14716), (37, 14770), (39, 14803), (64, 15025), (85, 15181), (90, 15235), (91, 15238), (94, 15268), (100, 15340), (114, 15463), (121, 15535), (127, 15592), (136, 15640), (144, 15703), (156, 15799), (186, 15937),

(201, 15988), (205, 16006), (209, 16033), (253, 16240), (282, 16390), (293, 16435), (296, 16483),

Gene: Winchester007_25 Start: 14566, Stop: 16434, Start Num: 14
Candidate Starts for Winchester007_25:
(1, 14341), (7, 14536), (Start: 14 @14566 has 83 MA's), (24, 14626), (27, 14647), (31, 14659), (37, 14713), (39, 14746), (57, 14875), (64, 14968), (85, 15124), (90, 15178), (91, 15181), (94, 15211), (100, 15283), (114, 15406), (124, 15511), (127, 15535), (136, 15583), (186, 15880), (201, 15931), (205, 15949), (214, 15994), (216, 16009), (247, 16156), (253, 16183), (264, 16246), (282, 16333), (296, 16426),

Gene: WinnieLou_32 Start: 18293, Stop: 20086, Start Num: 9
Candidate Starts for WinnieLou_32:
(7, 18278), (8, 18281), (Start: 9 @18293 has 2 MA's), (10, 18305), (Start: 14 @18308 has 83 MA's), (29, 18410), (38, 18473), (52, 18596), (65, 18731), (66, 18734), (67, 18746), (78, 18824), (90, 18926), (102, 19061), (108, 19109), (109, 19118), (123, 19256), (127, 19286), (130, 19295), (133, 19322), (135, 19331), (153, 19466), (158, 19517), (165, 19532), (181, 19616), (210, 19751), (281, 20066),

Gene: Wrackline_28 Start: 15957, Stop: 17840, Start Num: 14
Candidate Starts for Wrackline_28:
(Start: 14 @15957 has 83 MA's), (15, 15963), (16, 15972), (22, 16008), (24, 16017), (25, 16026), (28, 16038), (37, 16104), (45, 16167), (49, 16191), (57, 16266), (61, 16320), (67, 16386), (83, 16509), (90, 16587), (91, 16590), (94, 16620), (98, 16662), (100, 16692), (103, 16728), (106, 16764), (119, 16854), (123, 16914), (127, 16944), (129, 16950), (131, 16956), (133, 16980), (135, 16989), (136, 16992), (139, 17019), (140, 17028), (144, 17055), (149, 17082), (153, 17121), (155, 17142), (166, 17202), (167, 17205), (172, 17214), (173, 17226), (182, 17280), (186, 17295), (231, 17508), (235, 17520), (240, 17544), (246, 17565), (269, 17676), (270, 17679), (275, 17706), (277, 17715), (285, 17766),

Gene: Zanella_21 Start: 16234, Stop: 18126, Start Num: 14
Candidate Starts for Zanella_21:
(Start: 14 @16234 has 83 MA's), (33, 16363), (37, 16402), (38, 16405), (46, 16474), (56, 16555), (57, 16567), (67, 16684), (88, 16843), (90, 16864), (91, 16867), (95, 16900), (103, 17005), (107, 17044), (108, 17047), (110, 17065), (111, 17077), (126, 17215), (127, 17221), (138, 17293), (141, 17308), (144, 17332), (146, 17338), (149, 17359), (154, 17407), (186, 17572), (187, 17578), (198, 17608), (205, 17641), (206, 17647), (216, 17701), (223, 17740), (244, 17836), (255, 17881), (259, 17899), (282, 18025), (293, 18070), (294, 18091),