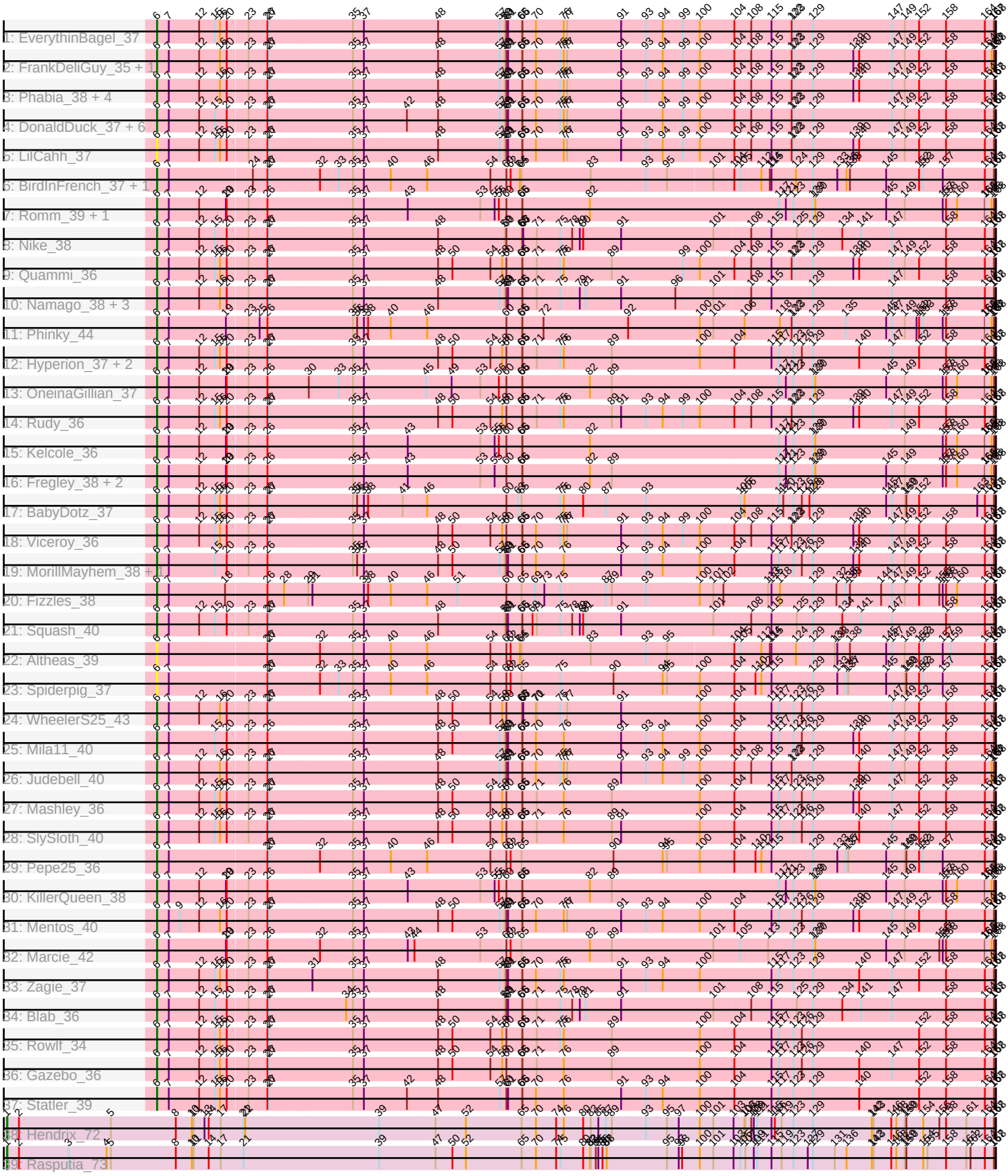
Pham 345764


1: EverythinBagel_37
2: FrankDeliGuy_35 + 1
3: Phabia_38 + 4
4: DonaldDuck_37 + 6
5: LilCahh_37
6: BirdInFrench_37 + 1
7: Romm_39 + 1
8: Nike_38
9: Quammi_36
10: Namago_38 + 3
11: Phinky_44
12: Hyperion_37 + 2
13: OneinaGillian_37
14: Rudy_36
15: Kelcole_36
16: Fregley_38 + 2
17: BabyDotz_37
18: Viceroy_36
19: MorillMayhem_38 + 1
20: Fizzles_38
21: Squash_40
22: Altheas_39
23: Spiderpig_37
24: WheelerS25_43
25: Mila11_40
26: Judebell_40
27: Mashley_36
28: SlySloth_40
29: Pepe25_36
30: KillerQueen_38
31: Mentos_40
32: Marcie_42
33: Zagie_37
34: Blab_36
35: Rowlf_34
36: Gazebo_36
37: Statler_39
38: Hendrix_72
39: Rasputia_73

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 345764 Report

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

Pham number 345764 has 60 members, 5 are drafts.

Phages represented in each track:
• Track 1 : EverythinBagel_37
• Track 2 : FrankDeliGuy_35, ZestyBestie_36
• Track 3 : Phabia_38, Casend_39, Lonelysoil_37, Wayne3_39, Teehee_39
• Track 4 : DonaldDuck_37, SallyK_39, Jehoshaphat_40, Zhafia_40, Wheelie_37, Sillytadpoles_38, Llemily_37
• Track 5 : LilCahh_37
• Track 6 : BirdInFrench_37, Wilca_37
• Track 7 : Romm_39, RobinRose_39
• Track 8 : Nike_38
• Track 9 : Quammi_36
• Track 10 : Namago_38, Kyva_40, Tissue_38, Grassboy_39
• Track 11 : Phinky_44
• Track 12 : Hyperion_37, StrawberryJamm_40, AluminumJesus_36
• Track 13 : OneinaGillian_37
• Track 14 : Rudy_36
• Track 15 : Kelcole_36
• Track 16 : Fregley_38, CandC_36, Tempo_37
• Track 17 : BabyDotz_37
• Track 18 : Viceroy_36
• Track 19 : MorillMayhem_38, BaconCheese_40
• Track 20 : Fizzles_38
• Track 21 : Squash_40
• Track 22 : Altheas_39
• Track 23 : Spiderpig_37
• Track 24 : WheelerS25_43
• Track 25 : Mila11_40
• Track 26 : Judebell_40
• Track 27 : Mashley_36
• Track 28 : SlySloth_40
• Track 29 : Pepe25_36
• Track 30 : KillerQueen_38
• Track 31 : Mentos_40
• Track 32 : Marcie_42
• Track 33 : Zagie_37
• Track 34 : Blab_36
• Track 35 : Rowlf_34
• Track 36 : Gazebo_36

• Track 37 : Statler_39
• Track 38 : Hendrix_72
• Track 39 : Rasputia_73

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

The start number called the most often in the published annotations is 6, it was called in 53 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_39, AluminumJesus_36, BabyDotz_37, BaconCheese_40, BirdInFrench_37, Blab_36, CandC_36, Casend_39, DonaldDuck_37, EverythinBagel_37, Fizzles_38, FrankDeliGuy_35, Fregley_38, Gazebo_36, Grassboy_39, Hyperion_37, Jehoshaphat_40, Judebell_40, Kelcole_36, KillerQueen_38, Kyva_40, LilCahh_37, Llemily_37, Lonelysoil_37, Marcie_42, Mashley_36, Mentos_40, Mila11_40, MorillMayhem_38, Namago_38, Nike_38, OneinaGillian_37, Pepe25_36, Phabia_38, Phinky_44, Quammi_36, RobinRose_39, Romm_39, Rowlf_34, Rudy_36, SallyK_39, Sillytadpoles_38, SlySloth_40, Spiderpig_37, Squash_40, Statler_39, StrawberryJamm_40, Teehee_39, Tempo_37, Tissue_38, Viceroy_36, Wayne3_39, WheelerS25_43, Wheelie_37, Wilca_37, Zagie_37, ZestyBestie_36, Zhafia_40,

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

Genes that do not have the "Most Annotated" start:
• Hendrix_72, Rasputia_73,

Summary by start number:

Start 1:
• Found in 2 of 60 (3.3%) of genes in pham
• Manual Annotations of this start: 2 of 55
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hendrix_72 (GC), Rasputia_73 (GC),

Start 6:
• Found in 58 of 60 (96.7%) of genes in pham
• Manual Annotations of this start: 53 of 55
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_39 (EG), AluminumJesus_36 (EG), BabyDotz_37 (EG), BaconCheese_40 (EG), BirdInFrench_37 (EG), Blab_36 (EG), CandC_36 (EG), Casend_39 (EG), DonaldDuck_37 (EG), EverythinBagel_37 (EG), Fizzles_38 (EG), FrankDeliGuy_35 (EG), Fregley_38 (EG), Gazebo_36 (EG), Grassboy_39 (EG), Hyperion_37 (EG), Jehoshaphat_40 (EG), Judebell_40 (EG), Kelcole_36 (EG), KillerQueen_38 (EG), Kyva_40 (EG), LilCahh_37 (EG), Llemily_37 (EG), Lonelysoil_37 (EG), Marcie_42 (EG), Mashley_36 (EG), Mentos_40 (EG), Mila11_40 (EG), MorillMayhem_38 (EG), Namago_38 (EG), Nike_38 (EG), OneinaGillian_37 (EG), Pepe25_36 (EG), Phabia_38 (EG), Phinky_44 (EG), Quammi_36 (EG), RobinRose_39 (EG), Romm_39 (EG), Rowlf_34 (EG), Rudy_36

(EG), SallyK_39 (EG), Sillytadpoles_38 (EG), SlySloth_40 (EG), Spiderpig_37 (EG), Squash_40 (EG), Statler_39 (EG), StrawberryJamm_40 (EG), Teehee_39 (EG), Tempo_37 (EG), Tissue_38 (EG), Viceroy_36 (EG), Wayne3_39 (EG), WheelerS25_43 (EG), Wheelie_37 (EG), Wilca_37 (EG), Zagie_37 (EG), ZestyBestie_36 (EG), Zhafia_40 (EG),

Summary by clusters:

There are 2 clusters represented in this pham: EG, GC,

Info for manual annotations of cluster EG:
•Start number 6 was manually annotated 53 times for cluster EG.

Info for manual annotations of cluster GC:
•Start number 1 was manually annotated 2 times for cluster GC.

Gene Information:

Gene: Altheas_39 Start: 28108, Stop: 31029, Start Num: 6
Candidate Starts for Altheas_39:
(Start: 6 @28108 has 53 MA's), (7, 28150), (26, 28477), (27, 28483), (32, 28648), (35, 28765), (37, 28801), (40, 28897), (46, 29026), (54, 29251), (60, 29308), (62, 29323), (64, 29356), (65, 29362), (83, 29608), (93, 29803), (95, 29878), (104, 30106), (105, 30127), (112, 30202), (114, 30232), (115, 30238), (124, 30322), (129, 30382), (131, 30457), (133, 30466), (138, 30511), (145, 30640), (147, 30661), (149, 30706), (152, 30757), (153, 30769), (157, 30841), (159, 30871), (164, 30991), (167, 31021), (168, 31024),

Gene: AluminumJesus_36 Start: 27705, Stop: 30626, Start Num: 6
Candidate Starts for AluminumJesus_36:
(Start: 6 @27705 has 53 MA's), (7, 27747), (12, 27855), (15, 27903), (16, 27921), (20, 27945), (23, 28008), (26, 28074), (27, 28080), (35, 28362), (37, 28398), (48, 28659), (50, 28710), (54, 28845), (58, 28887), (60, 28902), (65, 28956), (66, 28959), (71, 29010), (75, 29094), (76, 29106), (89, 29274), (100, 29583), (104, 29703), (115, 29835), (117, 29862), (123, 29910), (126, 29940), (129, 29979), (140, 30141), (147, 30258), (152, 30354), (158, 30450), (164, 30588), (167, 30618), (168, 30621),

Gene: BabyDotz_37 Start: 28469, Stop: 31396, Start Num: 6
Candidate Starts for BabyDotz_37:
(Start: 6 @28469 has 53 MA's), (7, 28511), (12, 28619), (15, 28667), (16, 28685), (20, 28709), (23, 28772), (26, 28838), (27, 28844), (35, 29126), (36, 29141), (37, 29162), (38, 29177), (41, 29300), (46, 29387), (60, 29669), (63, 29711), (65, 29723), (75, 29861), (76, 29873), (80, 29942), (87, 30023), (93, 30164), (105, 30494), (106, 30509), (117, 30632), (120, 30644), (123, 30680), (126, 30710), (128, 30737), (129, 30749), (145, 31007), (147, 31028), (149, 31073), (150, 31079), (152, 31124), (163, 31331), (164, 31358), (167, 31388), (168, 31391),

Gene: BaconCheese_40 Start: 29094, Stop: 32018, Start Num: 6
Candidate Starts for BaconCheese_40:
(Start: 6 @29094 has 53 MA's), (7, 29136), (15, 29292), (20, 29334), (23, 29397), (26, 29463), (35, 29751), (36, 29766), (37, 29787), (48, 30048), (50, 30099), (57, 30267), (59, 30285), (60, 30291), (61, 30297), (65, 30345), (66, 30348), (70, 30396), (76, 30495), (91, 30699), (93, 30786), (94, 30846), (100, 30975), (104, 31095), (115, 31227), (117, 31254), (123, 31302), (126, 31332), (129, 31371), (139, 31512), (140, 31533), (147, 31650), (149, 31695), (152, 31746), (158, 31842), (164, 31980), (167,

32010), (168, 32013),

Gene: BirdInFrench_37 Start: 26282, Stop: 29203, Start Num: 6
Candidate Starts for BirdInFrench_37:
(Start: 6 @26282 has 53 MA's), (7, 26324), (24, 26600), (26, 26651), (27, 26657), (32, 26822), (33, 26888), (35, 26939), (37, 26975), (40, 27071), (46, 27200), (54, 27425), (60, 27482), (62, 27497), (64, 27530), (65, 27536), (83, 27782), (93, 27977), (95, 28052), (101, 28208), (104, 28280), (105, 28301), (112, 28376), (114, 28406), (115, 28412), (124, 28496), (129, 28556), (133, 28640), (136, 28673), (138, 28685), (145, 28814), (152, 28931), (153, 28943), (157, 29015), (164, 29165), (167, 29195), (168, 29198),

Gene: Blab_36 Start: 27627, Stop: 30539, Start Num: 6
Candidate Starts for Blab_36:
(Start: 6 @27627 has 53 MA's), (7, 27669), (12, 27777), (15, 27825), (20, 27867), (23, 27930), (26, 27996), (27, 28002), (34, 28260), (35, 28284), (37, 28320), (48, 28581), (59, 28818), (60, 28824), (61, 28830), (65, 28878), (66, 28881), (71, 28932), (75, 29016), (78, 29058), (79, 29085), (81, 29106), (91, 29232), (101, 29556), (108, 29676), (115, 29748), (125, 29835), (129, 29892), (134, 29994), (141, 30060), (147, 30171), (158, 30363), (164, 30501), (167, 30531), (168, 30534),

Gene: CandC_36 Start: 26607, Stop: 29528, Start Num: 6
Candidate Starts for CandC_36:
(Start: 6 @26607 has 53 MA's), (7, 26649), (12, 26757), (19, 26844), (20, 26847), (23, 26910), (26, 26976), (35, 27264), (37, 27300), (43, 27453), (53, 27711), (55, 27762), (60, 27804), (65, 27858), (66, 27861), (82, 28101), (89, 28176), (117, 28764), (121, 28785), (123, 28812), (129, 28881), (130, 28890), (145, 29139), (149, 29205), (157, 29340), (158, 29352), (160, 29391), (164, 29490), (165, 29493), (166, 29514), (168, 29523),

Gene: Casend_39 Start: 28251, Stop: 31178, Start Num: 6
Candidate Starts for Casend_39:
(Start: 6 @28251 has 53 MA's), (7, 28293), (12, 28401), (16, 28467), (20, 28491), (23, 28554), (26, 28620), (27, 28626), (35, 28908), (37, 28944), (48, 29205), (57, 29424), (59, 29442), (60, 29448), (61, 29454), (65, 29502), (66, 29505), (70, 29553), (75, 29640), (76, 29652), (77, 29664), (91, 29856), (93, 29943), (94, 30003), (99, 30075), (100, 30135), (104, 30255), (108, 30315), (115, 30387), (122, 30456), (123, 30462), (129, 30531), (139, 30672), (140, 30693), (147, 30810), (149, 30855), (152, 30906), (158, 31002), (164, 31140), (167, 31170), (168, 31173),

Gene: DonaldDuck_37 Start: 27600, Stop: 30527, Start Num: 6
Candidate Starts for DonaldDuck_37:
(Start: 6 @27600 has 53 MA's), (7, 27642), (12, 27750), (15, 27798), (20, 27840), (23, 27903), (26, 27969), (27, 27975), (35, 28257), (37, 28293), (42, 28443), (48, 28554), (57, 28773), (59, 28791), (60, 28797), (61, 28803), (65, 28851), (66, 28854), (70, 28902), (75, 28989), (76, 29001), (77, 29013), (91, 29205), (94, 29352), (99, 29424), (100, 29484), (104, 29604), (108, 29664), (115, 29736), (122, 29805), (123, 29811), (129, 29880), (147, 30159), (149, 30204), (152, 30255), (158, 30351), (164, 30489), (167, 30519), (168, 30522),

Gene: EverythinBagel_37 Start: 27988, Stop: 30915, Start Num: 6
Candidate Starts for EverythinBagel_37:
(Start: 6 @27988 has 53 MA's), (7, 28030), (12, 28138), (15, 28186), (16, 28204), (20, 28228), (23, 28291), (26, 28357), (27, 28363), (35, 28645), (37, 28681), (48, 28942), (57, 29161), (59, 29179), (60, 29185), (61, 29191), (65, 29239), (66, 29242), (70, 29290), (76, 29389), (77, 29401), (91, 29593), (93, 29680), (94, 29740), (99, 29812), (100, 29872), (104, 29992), (108, 30052), (115, 30124), (122, 30193), (123, 30199), (129, 30268), (147, 30547), (149, 30592), (152, 30643), (158, 30739), (164, 30877), (167, 30907), (168, 30910),

Gene: Fizzles_38 Start: 27219, Stop: 30158, Start Num: 6
Candidate Starts for Fizzles_38:
(Start: 6 @27219 has 53 MA's), (7, 27261), (18, 27459), (26, 27594), (28, 27651), (29, 27723), (31, 27738), (37, 27918), (38, 27933), (40, 28014), (46, 28143), (51, 28251), (60, 28425), (65, 28479), (69, 28527), (73, 28560), (75, 28617), (87, 28779), (89, 28800), (93, 28920), (100, 29112), (101, 29160), (102, 29196), (113, 29355), (115, 29367), (118, 29397), (129, 29511), (132, 29592), (135, 29625), (138, 29640), (144, 29751), (147, 29790), (149, 29835), (152, 29886), (156, 29958), (157, 29970), (158, 29982), (160, 30021), (164, 30120), (167, 30150), (168, 30153),

Gene: FrankDeliGuy_35 Start: 27557, Stop: 30484, Start Num: 6
Candidate Starts for FrankDeliGuy_35:
(Start: 6 @27557 has 53 MA's), (7, 27599), (12, 27707), (16, 27773), (20, 27797), (23, 27860), (26, 27926), (27, 27932), (35, 28214), (37, 28250), (48, 28511), (57, 28730), (59, 28748), (60, 28754), (61, 28760), (65, 28808), (66, 28811), (70, 28859), (75, 28946), (76, 28958), (77, 28970), (91, 29162), (93, 29249), (94, 29309), (99, 29381), (100, 29441), (104, 29561), (108, 29621), (115, 29693), (122, 29762), (123, 29768), (129, 29837), (139, 29978), (140, 29999), (147, 30116), (149, 30161), (152, 30212), (158, 30308), (164, 30446), (166, 30470), (167, 30476), (168, 30479),

Gene: Fregley_38 Start: 27177, Stop: 30098, Start Num: 6
Candidate Starts for Fregley_38:
(Start: 6 @27177 has 53 MA's), (7, 27219), (12, 27327), (19, 27414), (20, 27417), (23, 27480), (26, 27546), (35, 27834), (37, 27870), (43, 28023), (53, 28281), (55, 28332), (60, 28374), (65, 28428), (66, 28431), (82, 28671), (89, 28746), (117, 29334), (121, 29355), (123, 29382), (129, 29451), (130, 29460), (145, 29709), (149, 29775), (157, 29910), (158, 29922), (160, 29961), (164, 30060), (165, 30063), (166, 30084), (168, 30093),

Gene: Gazebo_36 Start: 28168, Stop: 31089, Start Num: 6
Candidate Starts for Gazebo_36:
(Start: 6 @28168 has 53 MA's), (7, 28210), (12, 28318), (15, 28366), (16, 28384), (20, 28408), (23, 28471), (26, 28537), (27, 28543), (35, 28825), (37, 28861), (48, 29122), (50, 29173), (54, 29308), (58, 29350), (60, 29365), (65, 29419), (66, 29422), (71, 29473), (76, 29569), (89, 29737), (100, 30046), (104, 30166), (115, 30298), (117, 30325), (123, 30373), (126, 30403), (129, 30442), (140, 30604), (147, 30721), (152, 30817), (158, 30913), (164, 31051), (167, 31081), (168, 31084),

Gene: Grassboy_39 Start: 28229, Stop: 31141, Start Num: 6
Candidate Starts for Grassboy_39:
(Start: 6 @28229 has 53 MA's), (7, 28271), (12, 28379), (16, 28445), (20, 28469), (23, 28532), (26, 28598), (27, 28604), (35, 28886), (37, 28922), (48, 29183), (57, 29402), (59, 29420), (60, 29426), (61, 29432), (65, 29480), (66, 29483), (71, 29534), (75, 29618), (79, 29687), (81, 29708), (91, 29834), (96, 30026), (101, 30158), (108, 30278), (115, 30350), (129, 30494), (147, 30773), (158, 30965), (164, 31103), (167, 31133), (168, 31136),

Gene: Hendrix_72 Start: 46031, Stop: 49525, Start Num: 1
Candidate Starts for Hendrix_72:
(Start: 1 @46031 has 2 MA's), (2, 46073), (5, 46400), (8, 46625), (10, 46682), (11, 46688), (13, 46727), (14, 46742), (17, 46784), (21, 46865), (22, 46871), (39, 47342), (47, 47537), (52, 47645), (65, 47843), (70, 47894), (74, 47966), (76, 47993), (80, 48062), (83, 48089), (85, 48116), (87, 48143), (89, 48161), (93, 48281), (95, 48356), (97, 48398), (100, 48473), (101, 48521), (103, 48593), (106, 48632), (107, 48635), (108, 48656), (109, 48665), (111, 48677), (115, 48728), (116, 48740), (119, 48764), (123, 48806), (129, 48875), (142, 49085), (143, 49091), (146, 49154), (148, 49172), (149, 49202), (150, 49208), (154, 49268), (156, 49325), (158, 49349), (161, 49421), (164, 49487), (167, 49517), (168, 49520),

Gene: Hyperion_37 Start: 28124, Stop: 31045, Start Num: 6
Candidate Starts for Hyperion_37:
(Start: 6 @28124 has 53 MA's), (7, 28166), (12, 28274), (15, 28322), (16, 28340), (20, 28364), (23, 28427), (26, 28493), (27, 28499), (35, 28781), (37, 28817), (48, 29078), (50, 29129), (54, 29264), (58, 29306), (60, 29321), (65, 29375), (66, 29378), (71, 29429), (75, 29513), (76, 29525), (89, 29693), (100, 30002), (104, 30122), (115, 30254), (117, 30281), (123, 30329), (126, 30359), (129, 30398), (140, 30560), (147, 30677), (152, 30773), (158, 30869), (164, 31007), (167, 31037), (168, 31040),

Gene: Jehoshaphat_40 Start: 28519, Stop: 31446, Start Num: 6
Candidate Starts for Jehoshaphat_40:
(Start: 6 @28519 has 53 MA's), (7, 28561), (12, 28669), (15, 28717), (20, 28759), (23, 28822), (26, 28888), (27, 28894), (35, 29176), (37, 29212), (42, 29362), (48, 29473), (57, 29692), (59, 29710), (60, 29716), (61, 29722), (65, 29770), (66, 29773), (70, 29821), (75, 29908), (76, 29920), (77, 29932), (91, 30124), (94, 30271), (99, 30343), (100, 30403), (104, 30523), (108, 30583), (115, 30655), (122, 30724), (123, 30730), (129, 30799), (147, 31078), (149, 31123), (152, 31174), (158, 31270), (164, 31408), (167, 31438), (168, 31441),

Gene: Judebell_40 Start: 28022, Stop: 30949, Start Num: 6
Candidate Starts for Judebell_40:
(Start: 6 @28022 has 53 MA's), (7, 28064), (12, 28172), (16, 28238), (20, 28262), (23, 28325), (26, 28391), (27, 28397), (35, 28679), (37, 28715), (48, 28976), (57, 29195), (59, 29213), (60, 29219), (61, 29225), (65, 29273), (66, 29276), (70, 29324), (75, 29411), (76, 29423), (77, 29435), (91, 29627), (93, 29714), (94, 29774), (99, 29846), (100, 29906), (104, 30026), (108, 30086), (115, 30158), (122, 30227), (123, 30233), (129, 30302), (140, 30464), (147, 30581), (149, 30626), (152, 30677), (158, 30773), (164, 30911), (166, 30935), (167, 30941), (168, 30944),

Gene: Kelcole_36 Start: 27059, Stop: 29980, Start Num: 6
Candidate Starts for Kelcole_36:
(Start: 6 @27059 has 53 MA's), (7, 27101), (12, 27209), (19, 27296), (20, 27299), (23, 27362), (26, 27428), (35, 27716), (37, 27752), (43, 27905), (53, 28163), (55, 28214), (56, 28229), (60, 28256), (65, 28310), (66, 28313), (82, 28553), (117, 29216), (121, 29237), (123, 29264), (129, 29333), (130, 29342), (149, 29657), (157, 29792), (158, 29804), (160, 29843), (164, 29942), (165, 29945), (166, 29966), (168, 29975),

Gene: KillerQueen_38 Start: 26854, Stop: 29775, Start Num: 6
Candidate Starts for KillerQueen_38:
(Start: 6 @26854 has 53 MA's), (7, 26896), (12, 27004), (19, 27091), (20, 27094), (23, 27157), (26, 27223), (35, 27511), (37, 27547), (43, 27700), (53, 27958), (55, 28009), (56, 28024), (60, 28051), (65, 28105), (66, 28108), (82, 28348), (89, 28423), (117, 29011), (121, 29032), (123, 29059), (129, 29128), (130, 29137), (145, 29386), (149, 29452), (157, 29587), (158, 29599), (160, 29638), (164, 29737), (165, 29740), (166, 29761), (168, 29770),

Gene: Kyva_40 Start: 28264, Stop: 31176, Start Num: 6
Candidate Starts for Kyva_40:
(Start: 6 @28264 has 53 MA's), (7, 28306), (12, 28414), (16, 28480), (20, 28504), (23, 28567), (26, 28633), (27, 28639), (35, 28921), (37, 28957), (48, 29218), (57, 29437), (59, 29455), (60, 29461), (61, 29467), (65, 29515), (66, 29518), (71, 29569), (75, 29653), (79, 29722), (81, 29743), (91, 29869), (96, 30061), (101, 30193), (108, 30313), (115, 30385), (129, 30529), (147, 30808), (158, 31000), (164, 31138), (167, 31168), (168, 31171),

Gene: LilCahh_37 Start: 27616, Stop: 30543, Start Num: 6
Candidate Starts for LilCahh_37:

(Start: 6 @27616 has 53 MA's), (7, 27658), (12, 27766), (15, 27814), (16, 27832), (20, 27856), (23, 27919), (26, 27985), (27, 27991), (35, 28273), (37, 28309), (48, 28570), (57, 28789), (59, 28807), (60, 28813), (61, 28819), (65, 28867), (66, 28870), (70, 28918), (76, 29017), (77, 29029), (91, 29221), (93, 29308), (94, 29368), (99, 29440), (100, 29500), (104, 29620), (108, 29680), (115, 29752), (122, 29821), (123, 29827), (129, 29896), (139, 30037), (140, 30058), (147, 30175), (149, 30220), (152, 30271), (158, 30367), (164, 30505), (167, 30535), (168, 30538),

Gene: Llemily_37 Start: 27295, Stop: 30222, Start Num: 6
Candidate Starts for Llemily_37:
(Start: 6 @27295 has 53 MA's), (7, 27337), (12, 27445), (15, 27493), (20, 27535), (23, 27598), (26, 27664), (27, 27670), (35, 27952), (37, 27988), (42, 28138), (48, 28249), (57, 28468), (59, 28486), (60, 28492), (61, 28498), (65, 28546), (66, 28549), (70, 28597), (75, 28684), (76, 28696), (77, 28708), (91, 28900), (94, 29047), (99, 29119), (100, 29179), (104, 29299), (108, 29359), (115, 29431), (122, 29500), (123, 29506), (129, 29575), (147, 29854), (149, 29899), (152, 29950), (158, 30046), (164, 30184), (167, 30214), (168, 30217),

Gene: Lonelysoil_37 Start: 27537, Stop: 30464, Start Num: 6
Candidate Starts for Lonelysoil_37:
(Start: 6 @27537 has 53 MA's), (7, 27579), (12, 27687), (16, 27753), (20, 27777), (23, 27840), (26, 27906), (27, 27912), (35, 28194), (37, 28230), (48, 28491), (57, 28710), (59, 28728), (60, 28734), (61, 28740), (65, 28788), (66, 28791), (70, 28839), (75, 28926), (76, 28938), (77, 28950), (91, 29142), (93, 29229), (94, 29289), (99, 29361), (100, 29421), (104, 29541), (108, 29601), (115, 29673), (122, 29742), (123, 29748), (129, 29817), (139, 29958), (140, 29979), (147, 30096), (149, 30141), (152, 30192), (158, 30288), (164, 30426), (167, 30456), (168, 30459),

Gene: Marcie_42 Start: 27715, Stop: 30639, Start Num: 6
Candidate Starts for Marcie_42:
(Start: 6 @27715 has 53 MA's), (7, 27757), (19, 27952), (20, 27955), (23, 28018), (26, 28084), (32, 28255), (35, 28372), (37, 28411), (43, 28564), (44, 28588), (53, 28822), (60, 28915), (62, 28930), (65, 28969), (82, 29212), (89, 29287), (101, 29647), (105, 29737), (113, 29836), (123, 29923), (129, 29992), (130, 30001), (145, 30250), (149, 30316), (156, 30439), (157, 30451), (158, 30463), (164, 30601), (165, 30604), (166, 30625), (168, 30634),

Gene: Mashley_36 Start: 27940, Stop: 30861, Start Num: 6
Candidate Starts for Mashley_36:
(Start: 6 @27940 has 53 MA's), (7, 27982), (12, 28090), (15, 28138), (16, 28156), (20, 28180), (23, 28243), (26, 28309), (27, 28315), (35, 28597), (37, 28633), (48, 28894), (50, 28945), (54, 29080), (58, 29122), (60, 29137), (65, 29191), (66, 29194), (71, 29245), (76, 29341), (89, 29509), (100, 29818), (104, 29938), (115, 30070), (117, 30097), (123, 30145), (126, 30175), (129, 30214), (139, 30355), (140, 30376), (147, 30493), (152, 30589), (158, 30685), (164, 30823), (167, 30853), (168, 30856),

Gene: Mentos_40 Start: 29030, Stop: 31954, Start Num: 6
Candidate Starts for Mentos_40:
(Start: 6 @29030 has 53 MA's), (7, 29072), (9, 29111), (12, 29180), (16, 29246), (20, 29270), (23, 29333), (26, 29399), (27, 29405), (35, 29687), (37, 29723), (48, 29984), (50, 30035), (57, 30203), (59, 30221), (60, 30227), (61, 30233), (65, 30281), (66, 30284), (70, 30332), (76, 30431), (77, 30443), (91, 30635), (93, 30722), (94, 30782), (100, 30911), (104, 31031), (115, 31163), (117, 31190), (123, 31238), (126, 31268), (129, 31307), (139, 31448), (140, 31469), (147, 31586), (149, 31631), (152, 31682), (158, 31778), (164, 31916), (167, 31946), (168, 31949),

Gene: Mila11_40 Start: 28912, Stop: 31836, Start Num: 6
Candidate Starts for Mila11_40:

(Start: 6 @28912 has 53 MA's), (7, 28954), (15, 29110), (20, 29152), (23, 29215), (26, 29281), (35, 29569), (37, 29605), (48, 29866), (50, 29917), (57, 30085), (59, 30103), (60, 30109), (61, 30115), (65, 30163), (66, 30166), (70, 30214), (76, 30313), (91, 30517), (93, 30604), (94, 30664), (100, 30793), (104, 30913), (115, 31045), (117, 31072), (123, 31120), (126, 31150), (129, 31189), (139, 31330), (140, 31351), (147, 31468), (149, 31513), (152, 31564), (158, 31660), (164, 31798), (167, 31828), (168, 31831),

Gene: MorillMayhem_38 Start: 27810, Stop: 30734, Start Num: 6
Candidate Starts for MorillMayhem_38:
(Start: 6 @27810 has 53 MA's), (7, 27852), (15, 28008), (20, 28050), (23, 28113), (26, 28179), (35, 28467), (36, 28482), (37, 28503), (48, 28764), (50, 28815), (57, 28983), (59, 29001), (60, 29007), (61, 29013), (65, 29061), (66, 29064), (70, 29112), (76, 29211), (91, 29415), (93, 29502), (94, 29562), (100, 29691), (104, 29811), (115, 29943), (117, 29970), (123, 30018), (126, 30048), (129, 30087), (139, 30228), (140, 30249), (147, 30366), (149, 30411), (152, 30462), (158, 30558), (164, 30696), (167, 30726), (168, 30729),

Gene: Namago_38 Start: 27394, Stop: 30306, Start Num: 6
Candidate Starts for Namago_38:
(Start: 6 @27394 has 53 MA's), (7, 27436), (12, 27544), (16, 27610), (20, 27634), (23, 27697), (26, 27763), (27, 27769), (35, 28051), (37, 28087), (48, 28348), (57, 28567), (59, 28585), (60, 28591), (61, 28597), (65, 28645), (66, 28648), (71, 28699), (75, 28783), (79, 28852), (81, 28873), (91, 28999), (96, 29191), (101, 29323), (108, 29443), (115, 29515), (129, 29659), (147, 29938), (158, 30130), (164, 30268), (167, 30298), (168, 30301),

Gene: Nike_38 Start: 28349, Stop: 31261, Start Num: 6
Candidate Starts for Nike_38:
(Start: 6 @28349 has 53 MA's), (7, 28391), (12, 28499), (15, 28547), (20, 28589), (23, 28652), (26, 28718), (27, 28724), (35, 29006), (37, 29042), (48, 29303), (59, 29540), (60, 29546), (65, 29600), (66, 29603), (67, 29606), (71, 29654), (75, 29738), (78, 29780), (79, 29807), (80, 29819), (91, 29954), (101, 30278), (108, 30398), (115, 30470), (125, 30557), (129, 30614), (134, 30716), (141, 30782), (147, 30893), (158, 31085), (164, 31223), (167, 31253), (168, 31256),

Gene: OneinaGillian_37 Start: 26709, Stop: 29630, Start Num: 6
Candidate Starts for OneinaGillian_37:
(Start: 6 @26709 has 53 MA's), (7, 26751), (12, 26859), (19, 26946), (20, 26949), (23, 27012), (26, 27078), (30, 27210), (33, 27315), (35, 27366), (37, 27402), (45, 27621), (49, 27711), (53, 27813), (56, 27879), (60, 27906), (65, 27960), (66, 27963), (82, 28203), (89, 28278), (117, 28866), (121, 28887), (123, 28914), (129, 28983), (130, 28992), (145, 29241), (149, 29307), (157, 29442), (158, 29454), (160, 29493), (164, 29592), (165, 29595), (166, 29616), (168, 29625),

Gene: Pepe25_36 Start: 26299, Stop: 29229, Start Num: 6
Candidate Starts for Pepe25_36:
(Start: 6 @26299 has 53 MA's), (7, 26341), (26, 26668), (27, 26674), (32, 26839), (35, 26956), (37, 26992), (40, 27088), (46, 27217), (54, 27442), (60, 27499), (62, 27514), (65, 27553), (90, 27880), (94, 28054), (95, 28069), (100, 28186), (104, 28306), (110, 28381), (112, 28402), (115, 28438), (129, 28582), (133, 28666), (135, 28696), (137, 28705), (145, 28840), (149, 28906), (150, 28912), (152, 28957), (153, 28969), (157, 29041), (164, 29191), (167, 29221), (168, 29224),

Gene: Phabia_38 Start: 27710, Stop: 30637, Start Num: 6
Candidate Starts for Phabia_38:
(Start: 6 @27710 has 53 MA's), (7, 27752), (12, 27860), (16, 27926), (20, 27950), (23, 28013), (26, 28079), (27, 28085), (35, 28367), (37, 28403), (48, 28664), (57, 28883), (59, 28901), (60, 28907), (61, 28913), (65, 28961), (66, 28964), (70, 29012), (75, 29099), (76, 29111), (77, 29123), (91, 29315), (93,

29402), (94, 29462), (99, 29534), (100, 29594), (104, 29714), (108, 29774), (115, 29846), (122, 29915), (123, 29921), (129, 29990), (139, 30131), (140, 30152), (147, 30269), (149, 30314), (152, 30365), (158, 30461), (164, 30599), (167, 30629), (168, 30632),

Gene: Phinky_44 Start: 29522, Stop: 32449, Start Num: 6
Candidate Starts for Phinky_44:
(Start: 6 @29522 has 53 MA's), (7, 29564), (19, 29759), (23, 29825), (25, 29864), (26, 29891), (35, 30179), (36, 30194), (37, 30215), (38, 30230), (40, 30311), (46, 30440), (60, 30722), (65, 30776), (66, 30779), (72, 30854), (92, 31151), (100, 31406), (101, 31454), (106, 31562), (118, 31688), (122, 31727), (123, 31733), (129, 31802), (135, 31916), (145, 32060), (147, 32081), (149, 32126), (151, 32168), (152, 32177), (153, 32189), (157, 32261), (158, 32273), (164, 32411), (165, 32414), (166, 32435), (167, 32441), (168, 32444),

Gene: Quammi_36 Start: 27413, Stop: 30337, Start Num: 6
Candidate Starts for Quammi_36:
(Start: 6 @27413 has 53 MA's), (7, 27455), (12, 27563), (15, 27611), (16, 27629), (20, 27653), (23, 27716), (26, 27782), (27, 27788), (35, 28070), (37, 28106), (48, 28367), (50, 28418), (54, 28553), (58, 28595), (60, 28610), (65, 28664), (66, 28667), (71, 28718), (75, 28802), (76, 28814), (89, 28982), (99, 29234), (100, 29294), (104, 29414), (108, 29474), (115, 29546), (122, 29615), (123, 29621), (129, 29690), (139, 29831), (140, 29852), (147, 29969), (149, 30014), (152, 30065), (158, 30161), (164, 30299), (167, 30329), (168, 30332),

Gene: Rasputia_73 Start: 45991, Stop: 49482, Start Num: 1
Candidate Starts for Rasputia_73:
(Start: 1 @45991 has 2 MA's), (2, 46033), (3, 46210), (4, 46345), (5, 46360), (8, 46585), (10, 46642), (11, 46648), (14, 46702), (17, 46744), (21, 46825), (39, 47299), (47, 47494), (50, 47554), (52, 47602), (65, 47800), (70, 47851), (74, 47923), (75, 47938), (80, 48019), (82, 48043), (83, 48046), (84, 48064), (85, 48073), (86, 48088), (87, 48100), (88, 48103), (95, 48313), (97, 48355), (98, 48367), (100, 48430), (101, 48478), (103, 48550), (105, 48574), (107, 48592), (109, 48622), (111, 48634), (115, 48685), (119, 48721), (123, 48763), (127, 48814), (129, 48832), (131, 48910), (136, 48952), (142, 49042), (143, 49048), (146, 49111), (148, 49129), (149, 49159), (150, 49165), (154, 49225), (155, 49240), (158, 49306), (161, 49378), (162, 49393), (164, 49444), (167, 49474), (168, 49477),

Gene: RobinRose_39 Start: 27210, Stop: 30131, Start Num: 6
Candidate Starts for RobinRose_39:
(Start: 6 @27210 has 53 MA's), (7, 27252), (12, 27360), (19, 27447), (20, 27450), (23, 27513), (26, 27579), (35, 27867), (37, 27903), (43, 28056), (53, 28314), (55, 28365), (56, 28380), (60, 28407), (65, 28461), (66, 28464), (82, 28704), (117, 29367), (121, 29388), (123, 29415), (129, 29484), (130, 29493), (145, 29742), (149, 29808), (157, 29943), (158, 29955), (160, 29994), (164, 30093), (165, 30096), (166, 30117), (168, 30126),

Gene: Romm_39 Start: 27210, Stop: 30131, Start Num: 6
Candidate Starts for Romm_39:
(Start: 6 @27210 has 53 MA's), (7, 27252), (12, 27360), (19, 27447), (20, 27450), (23, 27513), (26, 27579), (35, 27867), (37, 27903), (43, 28056), (53, 28314), (55, 28365), (56, 28380), (60, 28407), (65, 28461), (66, 28464), (82, 28704), (117, 29367), (121, 29388), (123, 29415), (129, 29484), (130, 29493), (145, 29742), (149, 29808), (157, 29943), (158, 29955), (160, 29994), (164, 30093), (165, 30096), (166, 30117), (168, 30126),

Gene: Rowlf_34 Start: 27588, Stop: 30509, Start Num: 6
Candidate Starts for Rowlf_34:
(Start: 6 @27588 has 53 MA's), (7, 27630), (12, 27738), (15, 27786), (16, 27804), (20, 27828), (23, 27891), (26, 27957), (27, 27963), (35, 28245), (37, 28281), (48, 28542), (50, 28593), (54, 28728), (58,

28770), (60, 28785), (65, 28839), (66, 28842), (71, 28893), (75, 28977), (76, 28989), (89, 29157), (100, 29466), (104, 29586), (115, 29718), (117, 29745), (123, 29793), (126, 29823), (129, 29862), (152, 30237), (158, 30333), (164, 30471), (167, 30501), (168, 30504),

Gene: Rudy_36 Start: 27446, Stop: 30370, Start Num: 6
Candidate Starts for Rudy_36:
(Start: 6 @27446 has 53 MA's), (7, 27488), (12, 27596), (15, 27644), (16, 27662), (20, 27686), (23, 27749), (26, 27815), (27, 27821), (35, 28103), (37, 28139), (48, 28400), (50, 28451), (54, 28586), (58, 28628), (60, 28643), (65, 28697), (66, 28700), (71, 28751), (75, 28835), (76, 28847), (89, 29015), (91, 29048), (93, 29135), (94, 29195), (99, 29267), (100, 29327), (104, 29447), (108, 29507), (115, 29579), (122, 29648), (123, 29654), (129, 29723), (139, 29864), (140, 29885), (147, 30002), (149, 30047), (152, 30098), (158, 30194), (164, 30332), (167, 30362), (168, 30365),

Gene: SallyK_39 Start: 28393, Stop: 31320, Start Num: 6
Candidate Starts for SallyK_39:
(Start: 6 @28393 has 53 MA's), (7, 28435), (12, 28543), (15, 28591), (20, 28633), (23, 28696), (26, 28762), (27, 28768), (35, 29050), (37, 29086), (42, 29236), (48, 29347), (57, 29566), (59, 29584), (60, 29590), (61, 29596), (65, 29644), (66, 29647), (70, 29695), (75, 29782), (76, 29794), (77, 29806), (91, 29998), (94, 30145), (99, 30217), (100, 30277), (104, 30397), (108, 30457), (115, 30529), (122, 30598), (123, 30604), (129, 30673), (147, 30952), (149, 30997), (152, 31048), (158, 31144), (164, 31282), (167, 31312), (168, 31315),

Gene: Sillytadpoles_38 Start: 27283, Stop: 30210, Start Num: 6
Candidate Starts for Sillytadpoles_38:
(Start: 6 @27283 has 53 MA's), (7, 27325), (12, 27433), (15, 27481), (20, 27523), (23, 27586), (26, 27652), (27, 27658), (35, 27940), (37, 27976), (42, 28126), (48, 28237), (57, 28456), (59, 28474), (60, 28480), (61, 28486), (65, 28534), (66, 28537), (70, 28585), (75, 28672), (76, 28684), (77, 28696), (91, 28888), (94, 29035), (99, 29107), (100, 29167), (104, 29287), (108, 29347), (115, 29419), (122, 29488), (123, 29494), (129, 29563), (147, 29842), (149, 29887), (152, 29938), (158, 30034), (164, 30172), (167, 30202), (168, 30205),

Gene: SlySloth_40 Start: 28285, Stop: 31206, Start Num: 6
Candidate Starts for SlySloth_40:
(Start: 6 @28285 has 53 MA's), (7, 28327), (12, 28435), (15, 28483), (16, 28501), (20, 28525), (23, 28588), (26, 28654), (27, 28660), (35, 28942), (37, 28978), (48, 29239), (50, 29290), (54, 29425), (58, 29467), (60, 29482), (65, 29536), (66, 29539), (71, 29590), (76, 29686), (89, 29854), (91, 29887), (100, 30163), (104, 30283), (115, 30415), (117, 30442), (123, 30490), (126, 30520), (129, 30559), (140, 30721), (147, 30838), (152, 30934), (158, 31030), (164, 31168), (167, 31198), (168, 31201),

Gene: Spiderpig_37 Start: 26282, Stop: 29212, Start Num: 6
Candidate Starts for Spiderpig_37:
(Start: 6 @26282 has 53 MA's), (7, 26324), (26, 26651), (27, 26657), (32, 26822), (33, 26888), (35, 26939), (37, 26975), (40, 27071), (46, 27200), (54, 27425), (60, 27482), (62, 27497), (65, 27536), (75, 27674), (90, 27863), (94, 28037), (95, 28052), (100, 28169), (104, 28289), (110, 28364), (112, 28385), (115, 28421), (129, 28565), (133, 28649), (135, 28679), (137, 28688), (145, 28823), (149, 28889), (150, 28895), (152, 28940), (153, 28952), (157, 29024), (164, 29174), (167, 29204), (168, 29207),

Gene: Squash_40 Start: 28360, Stop: 31272, Start Num: 6
Candidate Starts for Squash_40:
(Start: 6 @28360 has 53 MA's), (7, 28402), (12, 28510), (15, 28558), (20, 28600), (23, 28663), (26, 28729), (27, 28735), (35, 29017), (37, 29053), (48, 29314), (59, 29551), (60, 29557), (61, 29563), (65, 29611), (66, 29614), (68, 29650), (71, 29665), (75, 29749), (78, 29791), (79, 29818), (80, 29830), (81, 29839), (91, 29965), (101, 30289), (108, 30409), (115, 30481), (125, 30568), (129, 30625), (134,

30727), (141, 30793), (147, 30904), (158, 31096), (164, 31234), (167, 31264), (168, 31267),

Gene: Statler_39 Start: 28199, Stop: 31123, Start Num: 6
Candidate Starts for Statler_39:
(Start: 6 @28199 has 53 MA's), (7, 28241), (12, 28349), (15, 28397), (16, 28415), (20, 28439), (23, 28502), (26, 28568), (27, 28574), (35, 28856), (37, 28892), (42, 29042), (48, 29153), (57, 29372), (60, 29396), (61, 29402), (65, 29450), (66, 29453), (70, 29501), (76, 29600), (91, 29804), (93, 29891), (94, 29951), (100, 30080), (104, 30200), (115, 30332), (117, 30359), (123, 30407), (129, 30476), (140, 30638), (152, 30851), (158, 30947), (164, 31085), (167, 31115), (168, 31118),

Gene: StrawberryJamm_40 Start: 27650, Stop: 30571, Start Num: 6
Candidate Starts for StrawberryJamm_40:
(Start: 6 @27650 has 53 MA's), (7, 27692), (12, 27800), (15, 27848), (16, 27866), (20, 27890), (23, 27953), (26, 28019), (27, 28025), (35, 28307), (37, 28343), (48, 28604), (50, 28655), (54, 28790), (58, 28832), (60, 28847), (65, 28901), (66, 28904), (71, 28955), (75, 29039), (76, 29051), (89, 29219), (100, 29528), (104, 29648), (115, 29780), (117, 29807), (123, 29855), (126, 29885), (129, 29924), (140, 30086), (147, 30203), (152, 30299), (158, 30395), (164, 30533), (167, 30563), (168, 30566),

Gene: Teehee_39 Start: 28516, Stop: 31443, Start Num: 6
Candidate Starts for Teehee_39:
(Start: 6 @28516 has 53 MA's), (7, 28558), (12, 28666), (16, 28732), (20, 28756), (23, 28819), (26, 28885), (27, 28891), (35, 29173), (37, 29209), (48, 29470), (57, 29689), (59, 29707), (60, 29713), (61, 29719), (65, 29767), (66, 29770), (70, 29818), (75, 29905), (76, 29917), (77, 29929), (91, 30121), (93, 30208), (94, 30268), (99, 30340), (100, 30400), (104, 30520), (108, 30580), (115, 30652), (122, 30721), (123, 30727), (129, 30796), (139, 30937), (140, 30958), (147, 31075), (149, 31120), (152, 31171), (158, 31267), (164, 31405), (167, 31435), (168, 31438),

Gene: Tempo_37 Start: 27086, Stop: 30007, Start Num: 6
Candidate Starts for Tempo_37:
(Start: 6 @27086 has 53 MA's), (7, 27128), (12, 27236), (19, 27323), (20, 27326), (23, 27389), (26, 27455), (35, 27743), (37, 27779), (43, 27932), (53, 28190), (55, 28241), (60, 28283), (65, 28337), (66, 28340), (82, 28580), (89, 28655), (117, 29243), (121, 29264), (123, 29291), (129, 29360), (130, 29369), (145, 29618), (149, 29684), (157, 29819), (158, 29831), (160, 29870), (164, 29969), (165, 29972), (166, 29993), (168, 30002),

Gene: Tissue_38 Start: 28036, Stop: 30948, Start Num: 6
Candidate Starts for Tissue_38:
(Start: 6 @28036 has 53 MA's), (7, 28078), (12, 28186), (16, 28252), (20, 28276), (23, 28339), (26, 28405), (27, 28411), (35, 28693), (37, 28729), (48, 28990), (57, 29209), (59, 29227), (60, 29233), (61, 29239), (65, 29287), (66, 29290), (71, 29341), (75, 29425), (79, 29494), (81, 29515), (91, 29641), (96, 29833), (101, 29965), (108, 30085), (115, 30157), (129, 30301), (147, 30580), (158, 30772), (164, 30910), (167, 30940), (168, 30943),

Gene: Viceroy_36 Start: 27413, Stop: 30340, Start Num: 6
Candidate Starts for Viceroy_36:
(Start: 6 @27413 has 53 MA's), (7, 27455), (12, 27563), (15, 27611), (16, 27629), (20, 27653), (23, 27716), (26, 27782), (27, 27788), (35, 28070), (37, 28106), (48, 28367), (50, 28418), (54, 28553), (58, 28595), (60, 28610), (65, 28664), (66, 28667), (70, 28715), (75, 28802), (76, 28814), (77, 28826), (91, 29018), (93, 29105), (94, 29165), (99, 29237), (100, 29297), (104, 29417), (108, 29477), (115, 29549), (122, 29618), (123, 29624), (129, 29693), (139, 29834), (140, 29855), (147, 29972), (149, 30017), (152, 30068), (158, 30164), (164, 30302), (167, 30332), (168, 30335),

Gene: Wayne3_39 Start: 28279, Stop: 31206, Start Num: 6

Candidate Starts for Wayne3_39:
(Start: 6 @28279 has 53 MA's), (7, 28321), (12, 28429), (16, 28495), (20, 28519), (23, 28582), (26, 28648), (27, 28654), (35, 28936), (37, 28972), (48, 29233), (57, 29452), (59, 29470), (60, 29476), (61, 29482), (65, 29530), (66, 29533), (70, 29581), (75, 29668), (76, 29680), (77, 29692), (91, 29884), (93, 29971), (94, 30031), (99, 30103), (100, 30163), (104, 30283), (108, 30343), (115, 30415), (122, 30484), (123, 30490), (129, 30559), (139, 30700), (140, 30721), (147, 30838), (149, 30883), (152, 30934), (158, 31030), (164, 31168), (167, 31198), (168, 31201),

Gene: WheelerS25_43 Start: 29042, Stop: 31966, Start Num: 6
Candidate Starts for WheelerS25_43:
(Start: 6 @29042 has 53 MA's), (7, 29084), (12, 29192), (16, 29258), (20, 29282), (23, 29345), (26, 29411), (27, 29417), (35, 29699), (37, 29735), (48, 29996), (50, 30047), (54, 30182), (58, 30224), (60, 30239), (65, 30293), (66, 30296), (67, 30299), (70, 30344), (71, 30347), (75, 30431), (77, 30455), (91, 30647), (100, 30923), (104, 31043), (115, 31175), (117, 31202), (123, 31250), (126, 31280), (129, 31319), (147, 31598), (149, 31643), (152, 31694), (158, 31790), (164, 31928), (167, 31958), (168, 31961),

Gene: Wheelie_37 Start: 27600, Stop: 30527, Start Num: 6
Candidate Starts for Wheelie_37:
(Start: 6 @27600 has 53 MA's), (7, 27642), (12, 27750), (15, 27798), (20, 27840), (23, 27903), (26, 27969), (27, 27975), (35, 28257), (37, 28293), (42, 28443), (48, 28554), (57, 28773), (59, 28791), (60, 28797), (61, 28803), (65, 28851), (66, 28854), (70, 28902), (75, 28989), (76, 29001), (77, 29013), (91, 29205), (94, 29352), (99, 29424), (100, 29484), (104, 29604), (108, 29664), (115, 29736), (122, 29805), (123, 29811), (129, 29880), (147, 30159), (149, 30204), (152, 30255), (158, 30351), (164, 30489), (167, 30519), (168, 30522),

Gene: Wilca_37 Start: 26282, Stop: 29203, Start Num: 6
Candidate Starts for Wilca_37:
(Start: 6 @26282 has 53 MA's), (7, 26324), (24, 26600), (26, 26651), (27, 26657), (32, 26822), (33, 26888), (35, 26939), (37, 26975), (40, 27071), (46, 27200), (54, 27425), (60, 27482), (62, 27497), (64, 27530), (65, 27536), (83, 27782), (93, 27977), (95, 28052), (101, 28208), (104, 28280), (105, 28301), (112, 28376), (114, 28406), (115, 28412), (124, 28496), (129, 28556), (133, 28640), (136, 28673), (138, 28685), (145, 28814), (152, 28931), (153, 28943), (157, 29015), (164, 29165), (167, 29195), (168, 29198),

Gene: Zagie_37 Start: 27851, Stop: 30775, Start Num: 6
Candidate Starts for Zagie_37:
(Start: 6 @27851 has 53 MA's), (7, 27893), (12, 28001), (15, 28049), (16, 28067), (20, 28091), (23, 28154), (26, 28220), (27, 28226), (31, 28364), (35, 28508), (37, 28544), (48, 28805), (57, 29024), (59, 29042), (60, 29048), (61, 29054), (65, 29102), (66, 29105), (70, 29153), (75, 29240), (76, 29252), (91, 29456), (93, 29543), (94, 29603), (100, 29732), (115, 29984), (117, 30011), (123, 30059), (129, 30128), (140, 30290), (147, 30407), (152, 30503), (158, 30599), (164, 30737), (167, 30767), (168, 30770),

Gene: ZestyBestie_36 Start: 27552, Stop: 30479, Start Num: 6
Candidate Starts for ZestyBestie_36:
(Start: 6 @27552 has 53 MA's), (7, 27594), (12, 27702), (16, 27768), (20, 27792), (23, 27855), (26, 27921), (27, 27927), (35, 28209), (37, 28245), (48, 28506), (57, 28725), (59, 28743), (60, 28749), (61, 28755), (65, 28803), (66, 28806), (70, 28854), (75, 28941), (76, 28953), (77, 28965), (91, 29157), (93, 29244), (94, 29304), (99, 29376), (100, 29436), (104, 29556), (108, 29616), (115, 29688), (122, 29757), (123, 29763), (129, 29832), (139, 29973), (140, 29994), (147, 30111), (149, 30156), (152, 30207), (158, 30303), (164, 30441), (166, 30465), (167, 30471), (168, 30474),

Gene: Zhafia_40 Start: 28078, Stop: 31005, Start Num: 6
Candidate Starts for Zhafia_40:
(Start: 6 @28078 has 53 MA's), (7, 28120), (12, 28228), (15, 28276), (20, 28318), (23, 28381), (26, 28447), (27, 28453), (35, 28735), (37, 28771), (42, 28921), (48, 29032), (57, 29251), (59, 29269), (60, 29275), (61, 29281), (65, 29329), (66, 29332), (70, 29380), (75, 29467), (76, 29479), (77, 29491), (91, 29683), (94, 29830), (99, 29902), (100, 29962), (104, 30082), (108, 30142), (115, 30214), (122, 30283), (123, 30289), (129, 30358), (147, 30637), (149, 30682), (152, 30733), (158, 30829), (164, 30967), (167, 30997), (168, 31000),