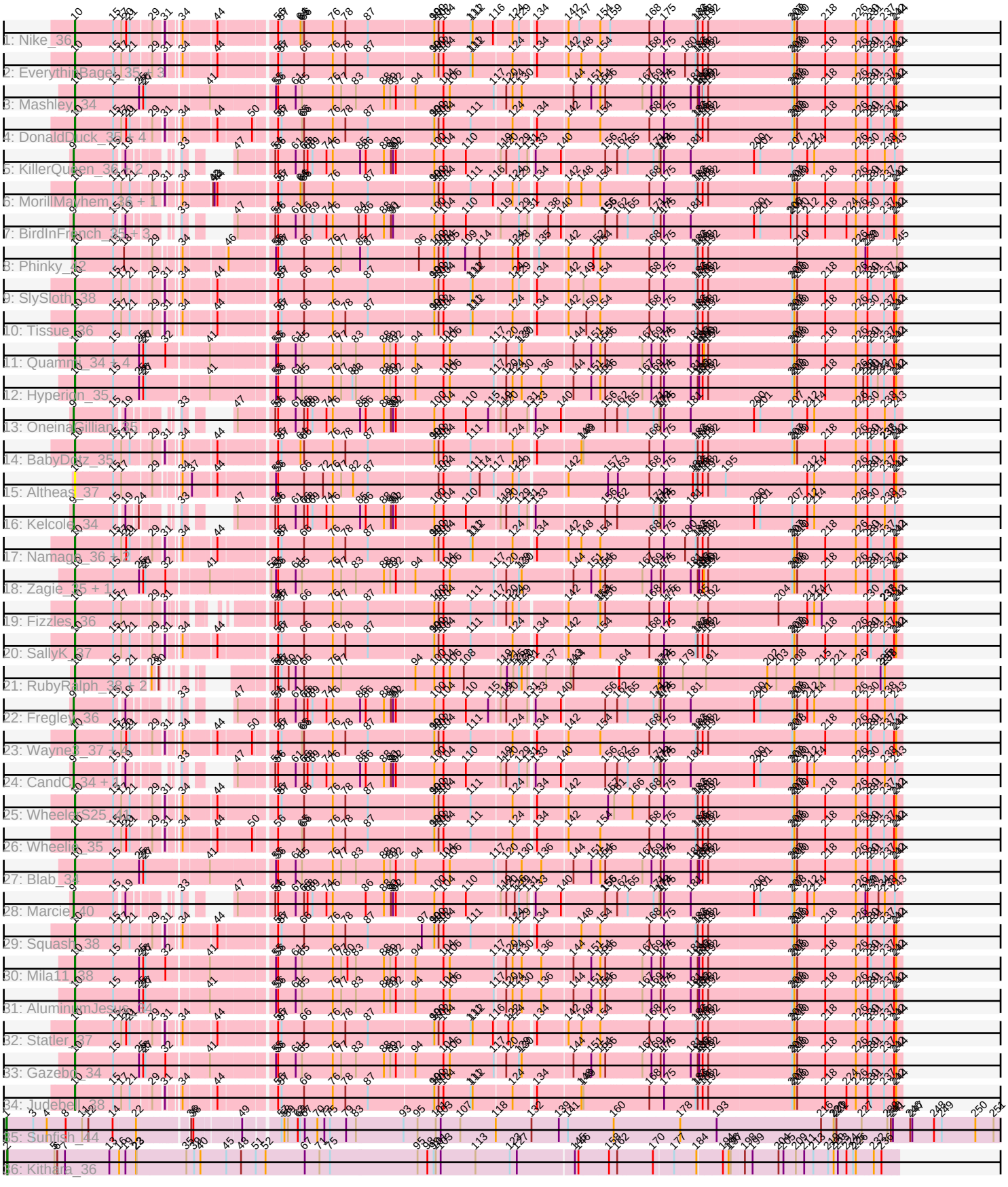
Pham 341011


1: Nike_36
2: EverythingBagel_35 + 3
3: Mashley_34
4: DonaldDuck_35 + 4
5: KillerQueen_36 + 2
6: MorillMayhem_36 + 1
7: BirdInFrench_35 + 3
8: Phinky_42
9: SlySloth_38
10: Tissue_36
11: Quamm_34 + 4
12: Hyperion_35
13: OneinaGilliam_35
14: BabyDoz_35
15: Altheas_37
16: Kelcole_34
17: Namago_36 + 2
18: Zagie_35 + 1
19: Fizzles_36
20: SallyK_37
21: RubyRalph_38 + 2
22: Fregley_36
23: Wayne3_37
24: CandC_34 + 1
25: WheelieS25_44
26: Wheelie_35
27: Blab_34
28: Marcie_40
29: Squash_38
30: Mila11_38
31: AluminumJesus_44
32: Statler_37
33: Gazebo_34
34: Judebell_38
35: Sunfish_44
36: Kithara_36

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 341011 Report

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

Pham number 341011 has 63 members, 5 are drafts.

Phages represented in each track:
- Track 1 : Nike_36
- Track 2 : EverythinBagel_35, LilCahh_35, FrankDeliGuy_33, ZestyBestie_34
- Track 3 : Mashley_34
- Track 4 : DonaldDuck_35, Jehoshaphat_38, Zhafia_38, Sillytadpoles_36, Llemily_35
- Track 5 : KillerQueen_36, Romm_37, RobinRose_37
- Track 6 : MorillMayhem_36, BaconCheese_38
- Track 7 : BirdInFrench_35, Wilca_35, Spiderpig_35, Pepe25_34
- Track 8 : Phinky_42
- Track 9 : SlySloth_38
- Track 10 : Tissue_36
- Track 11 : Quammi_34, Rudy_34, Mentos_38, Rowlf_32, Viceroy_34
- Track 12 : Hyperion_35
- Track 13 : OneinaGillian_35
- Track 14 : BabyDotz_35
- Track 15 : Altheas_37
- Track 16 : Kelcole_34
- Track 17 : Namago_36, Kyva_38, Grassboy_37
- Track 18 : Zagie_35, StrawberryJamm_38
- Track 19 : Fizzles_36
- Track 20 : SallyK_37
- Track 21 : RubyRalph_38, SadLad_40, Fransoyer_38
- Track 22 : Fregley_36
- Track 23 : Wayne3_37, Lonelysoil_35, Casend_37, Phabia_36, Teehee_37
- Track 24 : CandC_34, Tempo_35
- Track 25 : WheelerS25_41
- Track 26 : Wheelie_35
- Track 27 : Blab_34
- Track 28 : Marcie_40
- Track 29 : Squash_38
- Track 30 : Mila11_38
- Track 31 : AluminumJesus_34
- Track 32 : Statler_37
- Track 33 : Gazebo_34
- Track 34 : Judebell_38
- Track 35 : Sunfish_44
- Track 36 : Kithara_36

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

The start number called the most often in the published annotations is 10, it was called in 45 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_37, AluminumJesus_34, BabyDotz_35, BaconCheese_38, Blab_34, Casend_37, DonaldDuck_35, EverythinBagel_35, Fizzles_36, FrankDeliGuy_33, Fransoyer_38, Gazebo_34, Grassboy_37, Hyperion_35, Jehoshaphat_38, Judebell_38, Kyva_38, LilCahh_35, Llemily_35, Lonelysoil_35, Mashley_34, Mentos_38, Mila11_38, MorillMayhem_36, Namago_36, Nike_36, Phabia_36, Phinky_42, Quammi_34, Rowlf_32, RubyRalph_38, Rudy_34, SadLad_40, SallyK_37, Sillytadpoles_36, SlySloth_38, Squash_38, Statler_37, StrawberryJamm_38, Teehee_37, Tissue_36, Viceroy_34, Wayne3_37, WheelerS25_41, Wheelie_35, Zagie_35, ZestyBestie_34, Zhafia_38,

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

Genes that do not have the "Most Annotated" start:
• BirdInFrench_35, CandC_34, Fregley_36, Kelcole_34, KillerQueen_36, Kithara_36, Marcie_40, OneinaGillian_35, Pepe25_34, RobinRose_37, Romm_37, Spiderpig_35, Sunfish_44, Tempo_35, Wilca_35,

Summary by start number:

Start 1:
• Found in 1 of 63 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sunfish_44 (singleton),

Start 2:
• Found in 1 of 63 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kithara_36 (singleton),

Start 9:
• Found in 13 of 63 (20.6%) of genes in pham
• Manual Annotations of this start: 11 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdInFrench_35 (EG), CandC_34 (EG), Fregley_36 (EG), Kelcole_34 (EG), KillerQueen_36 (EG), Marcie_40 (EG), OneinaGillian_35 (EG), Pepe25_34 (EG), RobinRose_37 (EG), Romm_37 (EG), Spiderpig_35 (EG), Tempo_35 (EG), Wilca_35 (EG),

Start 10:
• Found in 48 of 63 (76.2%) of genes in pham
• Manual Annotations of this start: 45 of 58

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_37 (EG), AluminumJesus_34 (EG), BabyDotz_35 (EG), BaconCheese_38 (EG), Blab_34 (EG), Casend_37 (EG), DonaldDuck_35 (EG), EverythinBagel_35 (EG), Fizzles_36 (EG), FrankDeliGuy_33 (EG), Fransoyer_38 (EG), Gazebo_34 (EG), Grassboy_37 (EG), Hyperion_35 (EG), Jehoshaphat_38 (EG), Judebell_38 (EG), Kyva_38 (EG), LilCahh_35 (EG), Llemily_35 (EG), Lonelysoil_35 (EG), Mashley_34 (EG), Mentos_38 (EG), Mila11_38 (EG), MorillMayhem_36 (EG), Namago_36 (EG), Nike_36 (EG), Phabia_36 (EG), Phinky_42 (EG), Quammi_34 (EG), Rowlf_32 (EG), RubyRalph_38 (EG), Rudy_34 (EG), SadLad_40 (EG), SallyK_37 (EG), Sillytadpoles_36 (EG), SlySloth_38 (EG), Squash_38 (EG), Statler_37 (EG), StrawberryJamm_38 (EG), Teehee_37 (EG), Tissue_36 (EG), Viceroy_34 (EG), Wayne3_37 (EG), WheelerS25_41 (EG), Wheelie_35 (EG), Zagie_35 (EG), ZestyBestie_34 (EG), Zhafia_38 (EG),

Summary by clusters:

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

Info for manual annotations of cluster EG:
•Start number 9 was manually annotated 11 times for cluster EG.
•Start number 10 was manually annotated 45 times for cluster EG.

Gene Information:

Gene: Altheas_37 Start: 23551, Stop: 26730, Start Num: 10
Candidate Starts for Altheas_37:
(Start: 10 @23551 has 45 MA's), (15, 23707), (17, 23740), (29, 23836), (34, 23905), (37, 23929), (44, 24016), (55, 24199), (56, 24208), (66, 24319), (72, 24400), (76, 24442), (77, 24475), (82, 24526), (87, 24589), (102, 24880), (104, 24901), (111, 25012), (114, 25051), (117, 25111), (124, 25177), (129, 25204), (142, 25381), (157, 25537), (163, 25570), (168, 25702), (175, 25762), (182, 25876), (183, 25888), (186, 25897), (188, 25915), (192, 25939), (195, 26014), (212, 26341), (214, 26365), (226, 26539), (230, 26587), (231, 26602), (237, 26653), (242, 26695), (244, 26704),

Gene: AluminumJesus_34 Start: 23043, Stop: 26336, Start Num: 10
Candidate Starts for AluminumJesus_34:
(Start: 10 @23043 has 45 MA's), (15, 23199), (25, 23301), (26, 23313), (27, 23322), (41, 23559), (55, 23784), (56, 23793), (61, 23868), (65, 23895), (76, 24027), (77, 24060), (83, 24123), (88, 24243), (89, 24270), (92, 24294), (94, 24366), (104, 24486), (106, 24513), (117, 24696), (120, 24738), (124, 24762), (130, 24801), (136, 24882), (144, 25008), (151, 25080), (154, 25113), (156, 25134), (167, 25281), (169, 25320), (174, 25359), (175, 25371), (181, 25476), (186, 25506), (187, 25509), (188, 25524), (192, 25548), (207, 25887), (208, 25896), (210, 25908), (218, 26019), (226, 26148), (230, 26193), (231, 26208), (237, 26259), (242, 26301), (244, 26310),

Gene: BabyDotz_35 Start: 23297, Stop: 26473, Start Num: 10
Candidate Starts for BabyDotz_35:
(Start: 10 @23297 has 45 MA's), (15, 23453), (17, 23486), (21, 23516), (29, 23582), (31, 23615), (34, 23651), (44, 23762), (56, 23954), (57, 23969), (64, 24050), (66, 24065), (76, 24188), (78, 24239), (87, 24335), (99, 24605), (100, 24608), (102, 24626), (104, 24647), (111, 24758), (124, 24923), (134, 25004), (148, 25172), (149, 25181), (168, 25448), (175, 25508), (183, 25634), (186, 25643), (188, 25661), (192, 25685), (207, 26024), (208, 26033), (210, 26045), (218, 26156), (226, 26285), (230, 26330), (231, 26345), (237, 26396), (238, 26399), (242, 26438), (244, 26447),

Gene: BaconCheese_38 Start: 24546, Stop: 27722, Start Num: 10
Candidate Starts for BaconCheese_38:
(Start: 10 @24546 has 45 MA's), (15, 24702), (17, 24735), (21, 24765), (29, 24831), (31, 24864), (34, 24900), (42, 24993), (43, 24999), (44, 25011), (56, 25203), (57, 25218), (64, 25299), (65, 25305), (66, 25314), (76, 25437), (87, 25584), (99, 25854), (100, 25857), (102, 25875), (104, 25896), (111, 26007), (116, 26103), (124, 26172), (129, 26199), (134, 26253), (142, 26376), (148, 26421), (154, 26499), (168, 26697), (175, 26757), (183, 26883), (186, 26892), (188, 26910), (192, 26934), (207, 27273), (208, 27282), (210, 27294), (218, 27405), (226, 27534), (230, 27579), (231, 27594), (237, 27645), (242, 27687), (244, 27696),

Gene: BirdInFrench_35 Start: 21893, Stop: 24904, Start Num: 9
Candidate Starts for BirdInFrench_35:
(Start: 9 @21893 has 11 MA's), (15, 22052), (19, 22082), (33, 22193), (47, 22259), (54, 22373), (56, 22385), (61, 22460), (66, 22496), (69, 22532), (74, 22592), (76, 22619), (84, 22727), (86, 22757), (88, 22835), (90, 22865), (91, 22874), (100, 23039), (104, 23078), (110, 23171), (119, 23306), (129, 23381), (131, 23414), (138, 23483), (140, 23537), (155, 23702), (156, 23705), (162, 23750), (165, 23792), (171, 23900), (174, 23930), (175, 23945), (181, 24050), (200, 24305), (201, 24332), (206, 24455), (207, 24461), (210, 24482), (212, 24524), (218, 24593), (224, 24683), (226, 24722), (230, 24767), (237, 24827), (242, 24869), (244, 24878),

Gene: Blab_34 Start: 22968, Stop: 26261, Start Num: 10
Candidate Starts for Blab_34:
(Start: 10 @22968 has 45 MA's), (15, 23124), (25, 23226), (26, 23238), (27, 23247), (41, 23484), (55, 23709), (56, 23718), (61, 23793), (65, 23820), (76, 23952), (77, 23985), (83, 24048), (88, 24168), (89, 24195), (92, 24219), (94, 24291), (104, 24411), (106, 24438), (117, 24621), (120, 24663), (130, 24726), (136, 24807), (144, 24933), (151, 25005), (154, 25038), (156, 25059), (167, 25206), (169, 25245), (174, 25284), (175, 25296), (181, 25401), (186, 25431), (187, 25434), (188, 25449), (192, 25473), (207, 25812), (208, 25821), (210, 25833), (218, 25944), (226, 26073), (230, 26118), (231, 26133), (237, 26184), (242, 26226), (244, 26235),

Gene: CandC_34 Start: 21593, Stop: 24604, Start Num: 9
Candidate Starts for CandC_34:
(Start: 9 @21593 has 11 MA's), (15, 21752), (19, 21782), (33, 21893), (47, 21959), (54, 22073), (56, 22085), (61, 22160), (66, 22196), (68, 22211), (69, 22232), (74, 22292), (76, 22319), (85, 22433), (86, 22457), (88, 22535), (90, 22565), (91, 22574), (92, 22586), (100, 22739), (104, 22778), (110, 22871), (119, 23006), (120, 23030), (129, 23081), (131, 23114), (133, 23129), (140, 23237), (156, 23405), (162, 23450), (165, 23492), (171, 23600), (173, 23624), (174, 23630), (175, 23645), (181, 23750), (200, 24005), (201, 24032), (207, 24161), (208, 24170), (210, 24182), (212, 24224), (214, 24248), (226, 24422), (230, 24467), (238, 24530), (243, 24572),

Gene: Casend_37 Start: 23706, Stop: 26882, Start Num: 10
Candidate Starts for Casend_37:
(Start: 10 @23706 has 45 MA's), (15, 23862), (17, 23895), (20, 23913), (21, 23925), (29, 23991), (31, 24024), (34, 24060), (44, 24171), (50, 24288), (56, 24363), (57, 24378), (65, 24465), (66, 24474), (76, 24597), (78, 24648), (87, 24744), (99, 25014), (100, 25017), (102, 25035), (104, 25056), (111, 25167), (124, 25332), (134, 25413), (142, 25536), (154, 25659), (168, 25857), (175, 25917), (183, 26043), (186, 26052), (188, 26070), (192, 26094), (207, 26433), (208, 26442), (218, 26565), (226, 26694), (230, 26739), (231, 26754), (237, 26805), (242, 26847), (244, 26856),

Gene: DonaldDuck_35 Start: 23052, Stop: 26228, Start Num: 10
Candidate Starts for DonaldDuck_35:

(Start: 10 @23052 has 45 MA's), (15, 23208), (17, 23241), (20, 23259), (21, 23271), (29, 23337), (31, 23370), (34, 23406), (44, 23517), (50, 23634), (56, 23709), (57, 23724), (65, 23811), (66, 23820), (76, 23943), (78, 23994), (87, 24090), (99, 24360), (100, 24363), (102, 24381), (104, 24402), (111, 24513), (124, 24678), (134, 24759), (142, 24882), (154, 25005), (168, 25203), (175, 25263), (183, 25389), (186, 25398), (188, 25416), (192, 25440), (207, 25779), (208, 25788), (210, 25800), (218, 25911), (226, 26040), (230, 26085), (231, 26100), (237, 26151), (242, 26193), (244, 26202),

Gene: EverythinBagel_35 Start: 23440, Stop: 26616, Start Num: 10
Candidate Starts for EverythinBagel_35:
(Start: 10 @23440 has 45 MA's), (15, 23596), (17, 23629), (21, 23659), (29, 23725), (31, 23758), (34, 23794), (44, 23905), (56, 24097), (57, 24112), (66, 24208), (76, 24331), (78, 24382), (87, 24478), (99, 24748), (100, 24751), (102, 24769), (104, 24790), (111, 24901), (112, 24910), (124, 25066), (134, 25147), (142, 25270), (148, 25315), (154, 25393), (168, 25591), (175, 25651), (180, 25732), (183, 25777), (186, 25786), (188, 25804), (192, 25828), (207, 26167), (208, 26176), (210, 26188), (218, 26299), (226, 26428), (230, 26473), (231, 26488), (237, 26539), (242, 26581), (244, 26590),

Gene: Fizzles_36 Start: 22770, Stop: 25841, Start Num: 10
Candidate Starts for Fizzles_36:
(Start: 10 @22770 has 45 MA's), (15, 22926), (17, 22959), (29, 23055), (31, 23088), (54, 23307), (56, 23319), (57, 23334), (66, 23430), (76, 23553), (77, 23586), (87, 23700), (100, 23973), (102, 23991), (104, 24012), (111, 24123), (117, 24222), (120, 24264), (124, 24288), (129, 24315), (142, 24492), (153, 24606), (154, 24615), (156, 24636), (168, 24813), (175, 24873), (176, 24894), (185, 25005), (192, 25050), (204, 25332), (212, 25452), (214, 25476), (217, 25506), (230, 25695), (237, 25764), (238, 25767), (242, 25806), (244, 25815),

Gene: FrankDeliGuy_33 Start: 23012, Stop: 26188, Start Num: 10
Candidate Starts for FrankDeliGuy_33:
(Start: 10 @23012 has 45 MA's), (15, 23168), (17, 23201), (21, 23231), (29, 23297), (31, 23330), (34, 23366), (44, 23477), (56, 23669), (57, 23684), (66, 23780), (76, 23903), (78, 23954), (87, 24050), (99, 24320), (100, 24323), (102, 24341), (104, 24362), (111, 24473), (112, 24482), (124, 24638), (134, 24719), (142, 24842), (148, 24887), (154, 24965), (168, 25163), (175, 25223), (180, 25304), (183, 25349), (186, 25358), (188, 25376), (192, 25400), (207, 25739), (208, 25748), (210, 25760), (218, 25871), (226, 26000), (230, 26045), (231, 26060), (237, 26111), (242, 26153), (244, 26162),

Gene: Fransoyer_38 Start: 22891, Stop: 25899, Start Num: 10
Candidate Starts for Fransoyer_38:
(Start: 10 @22891 has 45 MA's), (15, 23047), (21, 23110), (28, 23161), (30, 23176), (54, 23377), (56, 23389), (57, 23404), (60, 23434), (61, 23464), (66, 23500), (76, 23623), (77, 23656), (94, 23962), (100, 24043), (104, 24082), (106, 24109), (108, 24166), (119, 24310), (121, 24337), (125, 24361), (129, 24385), (130, 24397), (131, 24418), (137, 24478), (143, 24571), (144, 24583), (164, 24757), (172, 24919), (174, 24928), (175, 24940), (179, 25012), (191, 25108), (202, 25357), (203, 25390), (208, 25465), (215, 25570), (221, 25633), (226, 25723), (235, 25807), (237, 25822), (238, 25825),

Gene: Fregley_36 Start: 22163, Stop: 25174, Start Num: 9
Candidate Starts for Fregley_36:
(Start: 9 @22163 has 11 MA's), (15, 22322), (19, 22352), (33, 22463), (47, 22529), (54, 22643), (56, 22655), (61, 22730), (66, 22766), (68, 22781), (69, 22802), (74, 22862), (76, 22889), (85, 23003), (86, 23027), (88, 23105), (90, 23135), (91, 23144), (92, 23156), (100, 23309), (104, 23348), (110, 23441), (115, 23534), (119, 23576), (120, 23600), (131, 23684), (133, 23699), (140, 23807), (156, 23975), (162, 24020), (165, 24062), (171, 24170), (173, 24194), (174, 24200), (175, 24215), (181, 24320), (200, 24575), (201, 24602), (207, 24731), (208, 24740), (210, 24752), (212, 24794), (214, 24818), (226, 24992), (230, 25037), (238, 25100), (243, 25142),

Gene: Gazebo_34 Start: 23506, Stop: 26799, Start Num: 10
Candidate Starts for Gazebo_34:
(Start: 10 @23506 has 45 MA's), (15, 23662), (25, 23764), (26, 23776), (27, 23785), (32, 23869), (41, 24022), (55, 24247), (56, 24256), (61, 24331), (65, 24358), (76, 24490), (77, 24523), (83, 24586), (88, 24706), (89, 24733), (92, 24757), (94, 24829), (104, 24949), (106, 24976), (117, 25159), (120, 25201), (129, 25252), (130, 25264), (144, 25471), (151, 25543), (154, 25576), (156, 25597), (167, 25744), (169, 25783), (174, 25822), (175, 25834), (181, 25939), (186, 25969), (187, 25972), (188, 25987), (192, 26011), (207, 26350), (208, 26359), (210, 26371), (218, 26482), (226, 26611), (230, 26656), (231, 26671), (237, 26722), (242, 26764), (244, 26773),

Gene: Grassboy_37 Start: 23681, Stop: 26857, Start Num: 10
Candidate Starts for Grassboy_37:
(Start: 10 @23681 has 45 MA's), (15, 23837), (17, 23870), (20, 23888), (21, 23900), (29, 23966), (31, 23999), (34, 24035), (44, 24146), (56, 24338), (57, 24353), (66, 24449), (76, 24572), (78, 24623), (87, 24719), (99, 24989), (100, 24992), (102, 25010), (104, 25031), (111, 25142), (112, 25151), (124, 25307), (134, 25388), (142, 25511), (148, 25556), (154, 25634), (168, 25832), (175, 25892), (180, 25973), (183, 26018), (186, 26027), (188, 26045), (192, 26069), (207, 26408), (208, 26417), (210, 26429), (218, 26540), (226, 26669), (230, 26714), (231, 26729), (237, 26780), (242, 26822), (244, 26831),

Gene: Hyperion_35 Start: 23462, Stop: 26755, Start Num: 10
Candidate Starts for Hyperion_35:
(Start: 10 @23462 has 45 MA's), (15, 23618), (25, 23720), (26, 23732), (27, 23741), (41, 23978), (55, 24203), (56, 24212), (61, 24287), (65, 24314), (76, 24446), (77, 24479), (81, 24527), (83, 24542), (88, 24662), (89, 24689), (92, 24713), (94, 24785), (104, 24905), (106, 24932), (117, 25115), (120, 25157), (124, 25181), (130, 25220), (136, 25301), (144, 25427), (151, 25499), (154, 25532), (156, 25553), (167, 25700), (169, 25739), (174, 25778), (175, 25790), (181, 25895), (186, 25925), (187, 25928), (188, 25943), (192, 25967), (207, 26306), (208, 26315), (210, 26327), (218, 26438), (226, 26567), (228, 26597), (230, 26612), (231, 26627), (233, 26654), (237, 26678), (242, 26720), (244, 26729),

Gene: Jehoshaphat_38 Start: 23971, Stop: 27147, Start Num: 10
Candidate Starts for Jehoshaphat_38:
(Start: 10 @23971 has 45 MA's), (15, 24127), (17, 24160), (20, 24178), (21, 24190), (29, 24256), (31, 24289), (34, 24325), (44, 24436), (50, 24553), (56, 24628), (57, 24643), (65, 24730), (66, 24739), (76, 24862), (78, 24913), (87, 25009), (99, 25279), (100, 25282), (102, 25300), (104, 25321), (111, 25432), (124, 25597), (134, 25678), (142, 25801), (154, 25924), (168, 26122), (175, 26182), (183, 26308), (186, 26317), (188, 26335), (192, 26359), (207, 26698), (208, 26707), (210, 26719), (218, 26830), (226, 26959), (230, 27004), (231, 27019), (237, 27070), (242, 27112), (244, 27121),

Gene: Judebell_38 Start: 23477, Stop: 26653, Start Num: 10
Candidate Starts for Judebell_38:
(Start: 10 @23477 has 45 MA's), (15, 23633), (17, 23666), (21, 23696), (29, 23762), (31, 23795), (34, 23831), (44, 23942), (56, 24134), (57, 24149), (66, 24245), (76, 24368), (78, 24419), (87, 24515), (99, 24785), (100, 24788), (102, 24806), (104, 24827), (111, 24938), (112, 24947), (124, 25103), (134, 25184), (148, 25352), (149, 25361), (168, 25628), (175, 25688), (183, 25814), (186, 25823), (188, 25841), (192, 25865), (207, 26204), (208, 26213), (210, 26225), (218, 26336), (224, 26426), (226, 26465), (230, 26510), (231, 26525), (237, 26576), (242, 26618), (244, 26627),

Gene: Kelcole_34 Start: 22045, Stop: 25056, Start Num: 9
Candidate Starts for Kelcole_34:
(Start: 9 @22045 has 11 MA's), (15, 22204), (19, 22234), (24, 22267), (33, 22345), (47, 22411), (54, 22525), (56, 22537), (61, 22612), (66, 22648), (68, 22663), (69, 22684), (74, 22744), (76, 22771), (85, 22885), (86, 22909), (88, 22987), (90, 23017), (91, 23026), (92, 23038), (100, 23191), (104, 23230),

(110, 23323), (119, 23458), (120, 23482), (129, 23533), (131, 23566), (133, 23581), (156, 23857), (162, 23902), (171, 24052), (173, 24076), (174, 24082), (175, 24097), (181, 24202), (200, 24457), (201, 24484), (207, 24613), (212, 24676), (214, 24700), (226, 24874), (230, 24919), (238, 24982), (243, 25024),

Gene: KillerQueen_36 Start: 21840, Stop: 24851, Start Num: 9
Candidate Starts for KillerQueen_36:
(Start: 9 @21840 has 11 MA's), (15, 21999), (19, 22029), (33, 22140), (47, 22206), (54, 22320), (56, 22332), (61, 22407), (66, 22443), (68, 22458), (69, 22479), (74, 22539), (76, 22566), (85, 22680), (86, 22704), (88, 22782), (90, 22812), (91, 22821), (92, 22833), (100, 22986), (104, 23025), (110, 23118), (119, 23253), (120, 23277), (129, 23328), (131, 23361), (133, 23376), (140, 23484), (156, 23652), (162, 23697), (165, 23739), (171, 23847), (173, 23871), (174, 23877), (175, 23892), (181, 23997), (200, 24252), (201, 24279), (207, 24408), (212, 24471), (214, 24495), (226, 24669), (230, 24714), (238, 24777), (243, 24819),

Gene: Kithara_36 Start: 24732, Stop: 28406, Start Num: 2
Candidate Starts for Kithara_36:
(Start: 2 @24732 has 1 MA's), (5, 24933), (6, 24945), (7, 24978), (13, 25167), (16, 25209), (19, 25236), (22, 25281), (23, 25284), (35, 25494), (39, 25527), (40, 25554), (45, 25665), (48, 25728), (51, 25791), (52, 25833), (67, 26001), (71, 26064), (75, 26109), (95, 26481), (98, 26523), (99, 26550), (101, 26559), (103, 26580), (113, 26727), (123, 26874), (127, 26904), (145, 27138), (146, 27150), (158, 27276), (162, 27309), (170, 27450), (177, 27519), (184, 27609), (194, 27705), (196, 27729), (197, 27738), (198, 27786), (199, 27819), (204, 27924), (205, 27945), (209, 27996), (211, 28026), (213, 28059), (219, 28119), (220, 28143), (223, 28161), (224, 28197), (225, 28224), (226, 28236), (232, 28308), (236, 28335),

Gene: Kyva_38 Start: 23716, Stop: 26892, Start Num: 10
Candidate Starts for Kyva_38:
(Start: 10 @23716 has 45 MA's), (15, 23872), (17, 23905), (20, 23923), (21, 23935), (29, 24001), (31, 24034), (34, 24070), (44, 24181), (56, 24373), (57, 24388), (66, 24484), (76, 24607), (78, 24658), (87, 24754), (99, 25024), (100, 25027), (102, 25045), (104, 25066), (111, 25177), (112, 25186), (124, 25342), (134, 25423), (142, 25546), (148, 25591), (154, 25669), (168, 25867), (175, 25927), (180, 26008), (183, 26053), (186, 26062), (188, 26080), (192, 26104), (207, 26443), (208, 26452), (210, 26464), (218, 26575), (226, 26704), (230, 26749), (231, 26764), (237, 26815), (242, 26857), (244, 26866),

Gene: LilCahh_35 Start: 23068, Stop: 26244, Start Num: 10
Candidate Starts for LilCahh_35:
(Start: 10 @23068 has 45 MA's), (15, 23224), (17, 23257), (21, 23287), (29, 23353), (31, 23386), (34, 23422), (44, 23533), (56, 23725), (57, 23740), (66, 23836), (76, 23959), (78, 24010), (87, 24106), (99, 24376), (100, 24379), (102, 24397), (104, 24418), (111, 24529), (112, 24538), (124, 24694), (134, 24775), (142, 24898), (148, 24943), (154, 25021), (168, 25219), (175, 25279), (180, 25360), (183, 25405), (186, 25414), (188, 25432), (192, 25456), (207, 25795), (208, 25804), (210, 25816), (218, 25927), (226, 26056), (230, 26101), (231, 26116), (237, 26167), (242, 26209), (244, 26218),

Gene: Llemily_35 Start: 22747, Stop: 25923, Start Num: 10
Candidate Starts for Llemily_35:
(Start: 10 @22747 has 45 MA's), (15, 22903), (17, 22936), (20, 22954), (21, 22966), (29, 23032), (31, 23065), (34, 23101), (44, 23212), (50, 23329), (56, 23404), (57, 23419), (65, 23506), (66, 23515), (76, 23638), (78, 23689), (87, 23785), (99, 24055), (100, 24058), (102, 24076), (104, 24097), (111, 24208), (124, 24373), (134, 24454), (142, 24577), (154, 24700), (168, 24898), (175, 24958), (183, 25084), (186, 25093), (188, 25111), (192, 25135), (207, 25474), (208, 25483), (210, 25495), (218, 25606), (226, 25735), (230, 25780), (231, 25795), (237, 25846), (242, 25888), (244, 25897),

Gene: Lonelysoil_35 Start: 22992, Stop: 26168, Start Num: 10
Candidate Starts for Lonelysoil_35:
(Start: 10 @22992 has 45 MA's), (15, 23148), (17, 23181), (20, 23199), (21, 23211), (29, 23277), (31, 23310), (34, 23346), (44, 23457), (50, 23574), (56, 23649), (57, 23664), (65, 23751), (66, 23760), (76, 23883), (78, 23934), (87, 24030), (99, 24300), (100, 24303), (102, 24321), (104, 24342), (111, 24453), (124, 24618), (134, 24699), (142, 24822), (154, 24945), (168, 25143), (175, 25203), (183, 25329), (186, 25338), (188, 25356), (192, 25380), (207, 25719), (208, 25728), (218, 25851), (226, 25980), (230, 26025), (231, 26040), (237, 26091), (242, 26133), (244, 26142),

Gene: Marcie_40 Start: 22701, Stop: 25712, Start Num: 9
Candidate Starts for Marcie_40:
(Start: 9 @22701 has 11 MA's), (15, 22860), (19, 22890), (33, 23001), (47, 23067), (54, 23181), (56, 23193), (61, 23268), (66, 23304), (68, 23319), (69, 23340), (74, 23400), (76, 23427), (86, 23565), (88, 23643), (90, 23673), (91, 23682), (92, 23694), (100, 23847), (104, 23886), (110, 23979), (119, 24114), (120, 24138), (126, 24171), (129, 24189), (131, 24222), (133, 24237), (140, 24345), (155, 24510), (156, 24513), (162, 24558), (165, 24600), (171, 24708), (173, 24732), (174, 24738), (175, 24753), (181, 24858), (200, 25113), (201, 25140), (207, 25269), (208, 25278), (212, 25332), (214, 25356), (226, 25530), (229, 25566), (230, 25575), (234, 25614), (238, 25638), (243, 25680),

Gene: Mashley_34 Start: 23278, Stop: 26571, Start Num: 10
Candidate Starts for Mashley_34:
(Start: 10 @23278 has 45 MA's), (15, 23434), (25, 23536), (26, 23548), (27, 23557), (41, 23794), (55, 24019), (56, 24028), (61, 24103), (65, 24130), (76, 24262), (77, 24295), (83, 24358), (88, 24478), (89, 24505), (92, 24529), (94, 24601), (104, 24721), (106, 24748), (117, 24931), (120, 24973), (124, 24997), (130, 25036), (144, 25243), (151, 25315), (154, 25348), (156, 25369), (167, 25516), (169, 25555), (174, 25594), (175, 25606), (181, 25711), (186, 25741), (187, 25744), (188, 25759), (189, 25762), (192, 25783), (207, 26122), (208, 26131), (210, 26143), (218, 26254), (226, 26383), (230, 26428), (231, 26443), (237, 26494), (242, 26536), (244, 26545),

Gene: Mentos_38 Start: 24365, Stop: 27658, Start Num: 10
Candidate Starts for Mentos_38:
(Start: 10 @24365 has 45 MA's), (15, 24521), (25, 24623), (26, 24635), (27, 24644), (32, 24728), (41, 24881), (55, 25106), (56, 25115), (61, 25190), (65, 25217), (76, 25349), (77, 25382), (83, 25445), (88, 25565), (89, 25592), (92, 25616), (94, 25688), (104, 25808), (106, 25835), (117, 26018), (120, 26060), (129, 26111), (130, 26123), (144, 26330), (151, 26402), (154, 26435), (156, 26456), (167, 26603), (169, 26642), (174, 26681), (175, 26693), (181, 26798), (186, 26828), (187, 26831), (188, 26846), (190, 26852), (192, 26870), (207, 27209), (208, 27218), (210, 27230), (218, 27341), (226, 27470), (230, 27515), (231, 27530), (237, 27581), (242, 27623), (244, 27632),

Gene: Mila11_38 Start: 24250, Stop: 27543, Start Num: 10
Candidate Starts for Mila11_38:
(Start: 10 @24250 has 45 MA's), (15, 24406), (25, 24508), (26, 24520), (27, 24529), (32, 24613), (41, 24766), (55, 24991), (56, 25000), (61, 25075), (65, 25102), (76, 25234), (77, 25267), (80, 25294), (83, 25330), (88, 25450), (89, 25477), (92, 25501), (94, 25573), (104, 25693), (106, 25720), (117, 25903), (120, 25945), (124, 25969), (130, 26008), (136, 26089), (144, 26215), (151, 26287), (154, 26320), (156, 26341), (167, 26488), (169, 26527), (174, 26566), (175, 26578), (181, 26683), (186, 26713), (187, 26716), (188, 26731), (192, 26755), (207, 27094), (208, 27103), (210, 27115), (218, 27226), (226, 27355), (230, 27400), (231, 27415), (237, 27466), (242, 27508), (244, 27517),

Gene: MorillMayhem_36 Start: 23262, Stop: 26438, Start Num: 10
Candidate Starts for MorillMayhem_36:

(Start: 10 @23262 has 45 MA's), (15, 23418), (17, 23451), (21, 23481), (29, 23547), (31, 23580), (34, 23616), (42, 23709), (43, 23715), (44, 23727), (56, 23919), (57, 23934), (64, 24015), (65, 24021), (66, 24030), (76, 24153), (87, 24300), (99, 24570), (100, 24573), (102, 24591), (104, 24612), (111, 24723), (116, 24819), (124, 24888), (129, 24915), (134, 24969), (142, 25092), (148, 25137), (154, 25215), (168, 25413), (175, 25473), (183, 25599), (186, 25608), (188, 25626), (192, 25650), (207, 25989), (208, 25998), (210, 26010), (218, 26121), (226, 26250), (230, 26295), (231, 26310), (237, 26361), (242, 26403), (244, 26412),

Gene: Namago_36 Start: 22846, Stop: 26022, Start Num: 10
Candidate Starts for Namago_36:
(Start: 10 @22846 has 45 MA's), (15, 23002), (17, 23035), (20, 23053), (21, 23065), (29, 23131), (31, 23164), (34, 23200), (44, 23311), (56, 23503), (57, 23518), (66, 23614), (76, 23737), (78, 23788), (87, 23884), (99, 24154), (100, 24157), (102, 24175), (104, 24196), (111, 24307), (112, 24316), (124, 24472), (134, 24553), (142, 24676), (148, 24721), (154, 24799), (168, 24997), (175, 25057), (180, 25138), (183, 25183), (186, 25192), (188, 25210), (192, 25234), (207, 25573), (208, 25582), (210, 25594), (218, 25705), (226, 25834), (230, 25879), (231, 25894), (237, 25945), (242, 25987), (244, 25996),

Gene: Nike_36 Start: 23798, Stop: 26974, Start Num: 10
Candidate Starts for Nike_36:
(Start: 10 @23798 has 45 MA's), (15, 23954), (17, 23987), (20, 24005), (21, 24017), (29, 24083), (31, 24116), (34, 24152), (44, 24263), (56, 24455), (57, 24470), (64, 24551), (65, 24557), (66, 24566), (76, 24689), (78, 24740), (87, 24836), (99, 25106), (100, 25109), (102, 25127), (104, 25148), (111, 25259), (112, 25268), (116, 25355), (124, 25424), (129, 25451), (134, 25505), (142, 25628), (147, 25664), (154, 25751), (159, 25793), (168, 25949), (175, 26009), (183, 26135), (186, 26144), (188, 26162), (192, 26186), (207, 26525), (208, 26534), (210, 26546), (218, 26657), (226, 26786), (230, 26831), (231, 26846), (237, 26897), (242, 26939), (244, 26948),

Gene: OneinaGillian_35 Start: 21692, Stop: 24703, Start Num: 9
Candidate Starts for OneinaGillian_35:
(Start: 9 @21692 has 11 MA's), (15, 21851), (19, 21881), (33, 21992), (47, 22058), (54, 22172), (56, 22184), (61, 22259), (66, 22295), (68, 22310), (69, 22331), (74, 22391), (76, 22418), (85, 22532), (86, 22556), (88, 22634), (90, 22664), (91, 22673), (92, 22685), (100, 22838), (104, 22877), (110, 22970), (115, 23063), (119, 23105), (120, 23129), (131, 23213), (133, 23228), (140, 23336), (156, 23504), (162, 23549), (165, 23591), (171, 23699), (173, 23723), (174, 23729), (175, 23744), (181, 23849), (200, 24104), (201, 24131), (207, 24260), (212, 24323), (214, 24347), (226, 24521), (230, 24566), (238, 24629), (243, 24671),

Gene: Pepe25_34 Start: 21910, Stop: 24921, Start Num: 9
Candidate Starts for Pepe25_34:
(Start: 9 @21910 has 11 MA's), (15, 22069), (19, 22099), (33, 22210), (47, 22276), (54, 22390), (56, 22402), (61, 22477), (66, 22513), (69, 22549), (74, 22609), (76, 22636), (84, 22744), (86, 22774), (88, 22852), (90, 22882), (91, 22891), (100, 23056), (104, 23095), (110, 23188), (119, 23323), (129, 23398), (131, 23431), (138, 23500), (140, 23554), (155, 23719), (156, 23722), (162, 23767), (165, 23809), (171, 23917), (174, 23947), (175, 23962), (181, 24067), (200, 24322), (201, 24349), (206, 24472), (207, 24478), (210, 24499), (212, 24541), (218, 24610), (224, 24700), (226, 24739), (230, 24784), (237, 24844), (242, 24886), (244, 24895),

Gene: Phabia_36 Start: 23165, Stop: 26341, Start Num: 10
Candidate Starts for Phabia_36:
(Start: 10 @23165 has 45 MA's), (15, 23321), (17, 23354), (20, 23372), (21, 23384), (29, 23450), (31, 23483), (34, 23519), (44, 23630), (50, 23747), (56, 23822), (57, 23837), (65, 23924), (66, 23933), (76, 24056), (78, 24107), (87, 24203), (99, 24473), (100, 24476), (102, 24494), (104, 24515), (111, 24626),

(124, 24791), (134, 24872), (142, 24995), (154, 25118), (168, 25316), (175, 25376), (183, 25502), (186, 25511), (188, 25529), (192, 25553), (207, 25892), (208, 25901), (218, 26024), (226, 26153), (230, 26198), (231, 26213), (237, 26264), (242, 26306), (244, 26315),

Gene: Phinky_42 Start: 24346, Stop: 27513, Start Num: 10
Candidate Starts for Phinky_42:
(Start: 10 @24346 has 45 MA's), (15, 24502), (18, 24547), (29, 24631), (34, 24700), (46, 24844), (55, 24994), (56, 25003), (57, 25018), (66, 25114), (76, 25237), (77, 25270), (85, 25351), (87, 25384), (96, 25591), (100, 25657), (102, 25675), (104, 25696), (105, 25714), (109, 25786), (114, 25846), (124, 25972), (128, 25996), (135, 26062), (142, 26176), (152, 26272), (154, 26299), (168, 26497), (175, 26557), (183, 26683), (186, 26692), (188, 26710), (192, 26734), (210, 27094), (226, 27328), (229, 27367), (230, 27376), (245, 27490),

Gene: Quammi_34 Start: 22751, Stop: 26044, Start Num: 10
Candidate Starts for Quammi_34:
(Start: 10 @22751 has 45 MA's), (15, 22907), (25, 23009), (26, 23021), (27, 23030), (32, 23114), (41, 23267), (55, 23492), (56, 23501), (61, 23576), (65, 23603), (76, 23735), (77, 23768), (83, 23831), (88, 23951), (89, 23978), (92, 24002), (94, 24074), (104, 24194), (106, 24221), (117, 24404), (120, 24446), (129, 24497), (130, 24509), (144, 24716), (151, 24788), (154, 24821), (156, 24842), (167, 24989), (169, 25028), (174, 25067), (175, 25079), (181, 25184), (186, 25214), (187, 25217), (188, 25232), (190, 25238), (192, 25256), (207, 25595), (208, 25604), (210, 25616), (218, 25727), (226, 25856), (230, 25901), (231, 25916), (237, 25967), (242, 26009), (244, 26018),

Gene: RobinRose_37 Start: 22196, Stop: 25207, Start Num: 9
Candidate Starts for RobinRose_37:
(Start: 9 @22196 has 11 MA's), (15, 22355), (19, 22385), (33, 22496), (47, 22562), (54, 22676), (56, 22688), (61, 22763), (66, 22799), (68, 22814), (69, 22835), (74, 22895), (76, 22922), (85, 23036), (86, 23060), (88, 23138), (90, 23168), (91, 23177), (92, 23189), (100, 23342), (104, 23381), (110, 23474), (119, 23609), (120, 23633), (129, 23684), (131, 23717), (133, 23732), (140, 23840), (156, 24008), (162, 24053), (165, 24095), (171, 24203), (173, 24227), (174, 24233), (175, 24248), (181, 24353), (200, 24608), (201, 24635), (207, 24764), (212, 24827), (214, 24851), (226, 25025), (230, 25070), (238, 25133), (243, 25175),

Gene: Romm_37 Start: 22196, Stop: 25207, Start Num: 9
Candidate Starts for Romm_37:
(Start: 9 @22196 has 11 MA's), (15, 22355), (19, 22385), (33, 22496), (47, 22562), (54, 22676), (56, 22688), (61, 22763), (66, 22799), (68, 22814), (69, 22835), (74, 22895), (76, 22922), (85, 23036), (86, 23060), (88, 23138), (90, 23168), (91, 23177), (92, 23189), (100, 23342), (104, 23381), (110, 23474), (119, 23609), (120, 23633), (129, 23684), (131, 23717), (133, 23732), (140, 23840), (156, 24008), (162, 24053), (165, 24095), (171, 24203), (173, 24227), (174, 24233), (175, 24248), (181, 24353), (200, 24608), (201, 24635), (207, 24764), (212, 24827), (214, 24851), (226, 25025), (230, 25070), (238, 25133), (243, 25175),

Gene: Rowlf_32 Start: 22926, Stop: 26219, Start Num: 10
Candidate Starts for Rowlf_32:
(Start: 10 @22926 has 45 MA's), (15, 23082), (25, 23184), (26, 23196), (27, 23205), (32, 23289), (41, 23442), (55, 23667), (56, 23676), (61, 23751), (65, 23778), (76, 23910), (77, 23943), (83, 24006), (88, 24126), (89, 24153), (92, 24177), (94, 24249), (104, 24369), (106, 24396), (117, 24579), (120, 24621), (129, 24672), (130, 24684), (144, 24891), (151, 24963), (154, 24996), (156, 25017), (167, 25164), (169, 25203), (174, 25242), (175, 25254), (181, 25359), (186, 25389), (187, 25392), (188, 25407), (190, 25413), (192, 25431), (207, 25770), (208, 25779), (210, 25791), (218, 25902), (226, 26031), (230, 26076), (231, 26091), (237, 26142), (242, 26184), (244, 26193),

Gene: RubyRalph_38 Start: 22819, Stop: 25827, Start Num: 10
Candidate Starts for RubyRalph_38:
(Start: 10 @22819 has 45 MA's), (15, 22975), (21, 23038), (28, 23089), (30, 23104), (54, 23305), (56, 23317), (57, 23332), (60, 23362), (61, 23392), (66, 23428), (76, 23551), (77, 23584), (94, 23890), (100, 23971), (104, 24010), (106, 24037), (108, 24094), (119, 24238), (121, 24265), (125, 24289), (129, 24313), (130, 24325), (131, 24346), (137, 24406), (143, 24499), (144, 24511), (164, 24685), (172, 24847), (174, 24856), (175, 24868), (179, 24940), (191, 25036), (202, 25285), (203, 25318), (208, 25393), (215, 25498), (221, 25561), (226, 25651), (235, 25735), (237, 25750), (238, 25753),

Gene: Rudy_34 Start: 22784, Stop: 26077, Start Num: 10
Candidate Starts for Rudy_34:
(Start: 10 @22784 has 45 MA's), (15, 22940), (25, 23042), (26, 23054), (27, 23063), (32, 23147), (41, 23300), (55, 23525), (56, 23534), (61, 23609), (65, 23636), (76, 23768), (77, 23801), (83, 23864), (88, 23984), (89, 24011), (92, 24035), (94, 24107), (104, 24227), (106, 24254), (117, 24437), (120, 24479), (129, 24530), (130, 24542), (144, 24749), (151, 24821), (154, 24854), (156, 24875), (167, 25022), (169, 25061), (174, 25100), (175, 25112), (181, 25217), (186, 25247), (187, 25250), (188, 25265), (190, 25271), (192, 25289), (207, 25628), (208, 25637), (210, 25649), (218, 25760), (226, 25889), (230, 25934), (231, 25949), (237, 26000), (242, 26042), (244, 26051),

Gene: SadLad_40 Start: 23762, Stop: 26770, Start Num: 10
Candidate Starts for SadLad_40:
(Start: 10 @23762 has 45 MA's), (15, 23918), (21, 23981), (28, 24032), (30, 24047), (54, 24248), (56, 24260), (57, 24275), (60, 24305), (61, 24335), (66, 24371), (76, 24494), (77, 24527), (94, 24833), (100, 24914), (104, 24953), (106, 24980), (108, 25037), (119, 25181), (121, 25208), (125, 25232), (129, 25256), (130, 25268), (131, 25289), (137, 25349), (143, 25442), (144, 25454), (164, 25628), (172, 25790), (174, 25799), (175, 25811), (179, 25883), (191, 25979), (202, 26228), (203, 26261), (208, 26336), (215, 26441), (221, 26504), (226, 26594), (235, 26678), (237, 26693), (238, 26696),

Gene: SallyK_37 Start: 23845, Stop: 27021, Start Num: 10
Candidate Starts for SallyK_37:
(Start: 10 @23845 has 45 MA's), (15, 24001), (17, 24034), (21, 24064), (29, 24130), (31, 24163), (34, 24199), (44, 24310), (56, 24502), (57, 24517), (66, 24613), (76, 24736), (78, 24787), (87, 24883), (99, 25153), (100, 25156), (102, 25174), (104, 25195), (111, 25306), (124, 25471), (134, 25552), (142, 25675), (154, 25798), (168, 25996), (175, 26056), (183, 26182), (186, 26191), (188, 26209), (192, 26233), (207, 26572), (208, 26581), (210, 26593), (218, 26704), (226, 26833), (230, 26878), (231, 26893), (237, 26944), (242, 26986), (244, 26995),

Gene: Sillytadpoles_36 Start: 22735, Stop: 25911, Start Num: 10
Candidate Starts for Sillytadpoles_36:
(Start: 10 @22735 has 45 MA's), (15, 22891), (17, 22924), (20, 22942), (21, 22954), (29, 23020), (31, 23053), (34, 23089), (44, 23200), (50, 23317), (56, 23392), (57, 23407), (65, 23494), (66, 23503), (76, 23626), (78, 23677), (87, 23773), (99, 24043), (100, 24046), (102, 24064), (104, 24085), (111, 24196), (124, 24361), (134, 24442), (142, 24565), (154, 24688), (168, 24886), (175, 24946), (183, 25072), (186, 25081), (188, 25099), (192, 25123), (207, 25462), (208, 25471), (210, 25483), (218, 25594), (226, 25723), (230, 25768), (231, 25783), (237, 25834), (242, 25876), (244, 25885),

Gene: SlySloth_38 Start: 23740, Stop: 26916, Start Num: 10
Candidate Starts for SlySloth_38:
(Start: 10 @23740 has 45 MA's), (15, 23896), (17, 23929), (21, 23959), (29, 24025), (31, 24058), (34, 24094), (44, 24205), (56, 24397), (57, 24412), (66, 24508), (76, 24631), (87, 24778), (99, 25048), (100, 25051), (102, 25069), (104, 25090), (111, 25201), (112, 25210), (124, 25366), (129, 25393), (134, 25447), (142, 25570), (149, 25624), (154, 25693), (168, 25891), (175, 25951), (183, 26077), (186, 26086), (188, 26104), (192, 26128), (207, 26467), (208, 26476), (210, 26488), (218, 26599), (226,

26728), (230, 26773), (231, 26788), (237, 26839), (242, 26881), (244, 26890),

Gene: Spiderpig_35 Start: 21893, Stop: 24904, Start Num: 9
Candidate Starts for Spiderpig_35:
(Start: 9 @21893 has 11 MA's), (15, 22052), (19, 22082), (33, 22193), (47, 22259), (54, 22373), (56, 22385), (61, 22460), (66, 22496), (69, 22532), (74, 22592), (76, 22619), (84, 22727), (86, 22757), (88, 22835), (90, 22865), (91, 22874), (100, 23039), (104, 23078), (110, 23171), (119, 23306), (129, 23381), (131, 23414), (138, 23483), (140, 23537), (155, 23702), (156, 23705), (162, 23750), (165, 23792), (171, 23900), (174, 23930), (175, 23945), (181, 24050), (200, 24305), (201, 24332), (206, 24455), (207, 24461), (210, 24482), (212, 24524), (218, 24593), (224, 24683), (226, 24722), (230, 24767), (237, 24827), (242, 24869), (244, 24878),

Gene: Squash_38 Start: 23809, Stop: 26985, Start Num: 10
Candidate Starts for Squash_38:
(Start: 10 @23809 has 45 MA's), (15, 23965), (17, 23998), (21, 24028), (29, 24094), (31, 24127), (34, 24163), (44, 24274), (56, 24466), (57, 24481), (66, 24577), (76, 24700), (78, 24751), (87, 24847), (97, 25066), (99, 25117), (100, 25120), (102, 25138), (104, 25159), (111, 25270), (124, 25435), (129, 25462), (134, 25516), (148, 25684), (154, 25762), (168, 25960), (175, 26020), (183, 26146), (186, 26155), (188, 26173), (192, 26197), (207, 26536), (208, 26545), (210, 26557), (218, 26668), (226, 26797), (230, 26842), (231, 26857), (237, 26908), (242, 26950), (244, 26959),

Gene: Statler_37 Start: 23654, Stop: 26830, Start Num: 10
Candidate Starts for Statler_37:
(Start: 10 @23654 has 45 MA's), (15, 23810), (17, 23843), (20, 23861), (21, 23873), (29, 23939), (31, 23972), (34, 24008), (44, 24119), (56, 24311), (57, 24326), (66, 24422), (76, 24545), (78, 24596), (87, 24692), (99, 24962), (100, 24965), (102, 24983), (104, 25004), (111, 25115), (112, 25124), (116, 25211), (122, 25265), (124, 25280), (134, 25361), (142, 25484), (148, 25529), (154, 25607), (168, 25805), (175, 25865), (183, 25991), (186, 26000), (188, 26018), (192, 26042), (207, 26381), (208, 26390), (210, 26402), (218, 26513), (226, 26642), (230, 26687), (231, 26702), (237, 26753), (242, 26795), (244, 26804),

Gene: StrawberryJamm_38 Start: 22988, Stop: 26281, Start Num: 10
Candidate Starts for StrawberryJamm_38:
(Start: 10 @22988 has 45 MA's), (15, 23144), (25, 23246), (26, 23258), (27, 23267), (32, 23351), (41, 23504), (53, 23711), (55, 23729), (56, 23738), (61, 23813), (65, 23840), (76, 23972), (77, 24005), (83, 24068), (88, 24188), (89, 24215), (92, 24239), (94, 24311), (104, 24431), (106, 24458), (117, 24641), (120, 24683), (129, 24734), (130, 24746), (144, 24953), (151, 25025), (154, 25058), (156, 25079), (167, 25226), (169, 25265), (174, 25304), (175, 25316), (181, 25421), (186, 25451), (187, 25454), (188, 25469), (190, 25475), (192, 25493), (207, 25832), (208, 25841), (210, 25853), (218, 25964), (226, 26093), (230, 26138), (231, 26153), (237, 26204), (242, 26246), (244, 26255),

Gene: Sunfish_44 Start: 24223, Stop: 28365, Start Num: 1
Candidate Starts for Sunfish_44:
(Start: 1 @24223 has 1 MA's), (3, 24337), (4, 24394), (8, 24475), (11, 24544), (12, 24571), (14, 24673), (22, 24757), (36, 24931), (38, 24940), (49, 25096), (57, 25219), (58, 25231), (59, 25246), (62, 25288), (63, 25297), (67, 25318), (70, 25372), (73, 25402), (75, 25426), (79, 25495), (83, 25537), (93, 25738), (95, 25798), (101, 25876), (103, 25897), (107, 25981), (118, 26131), (132, 26284), (139, 26401), (141, 26440), (160, 26635), (178, 26917), (193, 27073), (216, 27514), (220, 27568), (221, 27571), (222, 27580), (227, 27685), (239, 27784), (240, 27799), (241, 27808), (246, 27880), (247, 27889), (248, 27982), (249, 28015), (250, 28159), (251, 28237),

Gene: Teehee_37 Start: 23971, Stop: 27147, Start Num: 10
Candidate Starts for Teehee_37:

(Start: 10 @23971 has 45 MA's), (15, 24127), (17, 24160), (20, 24178), (21, 24190), (29, 24256), (31, 24289), (34, 24325), (44, 24436), (50, 24553), (56, 24628), (57, 24643), (65, 24730), (66, 24739), (76, 24862), (78, 24913), (87, 25009), (99, 25279), (100, 25282), (102, 25300), (104, 25321), (111, 25432), (124, 25597), (134, 25678), (142, 25801), (154, 25924), (168, 26122), (175, 26182), (183, 26308), (186, 26317), (188, 26335), (192, 26359), (207, 26698), (208, 26707), (218, 26830), (226, 26959), (230, 27004), (231, 27019), (237, 27070), (242, 27112), (244, 27121),

Gene: Tempo_35 Start: 22072, Stop: 25083, Start Num: 9
Candidate Starts for Tempo_35:
(Start: 9 @22072 has 11 MA's), (15, 22231), (19, 22261), (33, 22372), (47, 22438), (54, 22552), (56, 22564), (61, 22639), (66, 22675), (68, 22690), (69, 22711), (74, 22771), (76, 22798), (85, 22912), (86, 22936), (88, 23014), (90, 23044), (91, 23053), (92, 23065), (100, 23218), (104, 23257), (110, 23350), (119, 23485), (120, 23509), (129, 23560), (131, 23593), (133, 23608), (140, 23716), (156, 23884), (162, 23929), (165, 23971), (171, 24079), (173, 24103), (174, 24109), (175, 24124), (181, 24229), (200, 24484), (201, 24511), (207, 24640), (208, 24649), (210, 24661), (212, 24703), (214, 24727), (226, 24901), (230, 24946), (238, 25009), (243, 25051),

Gene: Tissue_36 Start: 23488, Stop: 26664, Start Num: 10
Candidate Starts for Tissue_36:
(Start: 10 @23488 has 45 MA's), (15, 23644), (17, 23677), (21, 23707), (29, 23773), (31, 23806), (34, 23842), (44, 23953), (56, 24145), (57, 24160), (66, 24256), (76, 24379), (78, 24430), (87, 24526), (99, 24796), (100, 24799), (102, 24817), (104, 24838), (111, 24949), (112, 24958), (124, 25114), (134, 25195), (142, 25318), (150, 25384), (154, 25441), (168, 25639), (175, 25699), (183, 25825), (186, 25834), (188, 25852), (192, 25876), (207, 26215), (208, 26224), (210, 26236), (218, 26347), (226, 26476), (230, 26521), (237, 26587), (242, 26629), (244, 26638),

Gene: Viceroy_34 Start: 22751, Stop: 26044, Start Num: 10
Candidate Starts for Viceroy_34:
(Start: 10 @22751 has 45 MA's), (15, 22907), (25, 23009), (26, 23021), (27, 23030), (32, 23114), (41, 23267), (55, 23492), (56, 23501), (61, 23576), (65, 23603), (76, 23735), (77, 23768), (83, 23831), (88, 23951), (89, 23978), (92, 24002), (94, 24074), (104, 24194), (106, 24221), (117, 24404), (120, 24446), (129, 24497), (130, 24509), (144, 24716), (151, 24788), (154, 24821), (156, 24842), (167, 24989), (169, 25028), (174, 25067), (175, 25079), (181, 25184), (186, 25214), (187, 25217), (188, 25232), (190, 25238), (192, 25256), (207, 25595), (208, 25604), (210, 25616), (218, 25727), (226, 25856), (230, 25901), (231, 25916), (237, 25967), (242, 26009), (244, 26018),

Gene: Wayne3_37 Start: 23734, Stop: 26910, Start Num: 10
Candidate Starts for Wayne3_37:
(Start: 10 @23734 has 45 MA's), (15, 23890), (17, 23923), (20, 23941), (21, 23953), (29, 24019), (31, 24052), (34, 24088), (44, 24199), (50, 24316), (56, 24391), (57, 24406), (65, 24493), (66, 24502), (76, 24625), (78, 24676), (87, 24772), (99, 25042), (100, 25045), (102, 25063), (104, 25084), (111, 25195), (124, 25360), (134, 25441), (142, 25564), (154, 25687), (168, 25885), (175, 25945), (183, 26071), (186, 26080), (188, 26098), (192, 26122), (207, 26461), (208, 26470), (218, 26593), (226, 26722), (230, 26767), (231, 26782), (237, 26833), (242, 26875), (244, 26884),

Gene: WheelerS25_41 Start: 24494, Stop: 27670, Start Num: 10
Candidate Starts for WheelerS25_41:
(Start: 10 @24494 has 45 MA's), (15, 24650), (17, 24683), (21, 24713), (29, 24779), (31, 24812), (34, 24848), (44, 24959), (56, 25151), (57, 25166), (66, 25262), (76, 25385), (78, 25436), (87, 25532), (99, 25802), (100, 25805), (102, 25823), (104, 25844), (111, 25955), (124, 26120), (134, 26201), (142, 26324), (157, 26480), (161, 26501), (166, 26573), (168, 26645), (175, 26705), (183, 26831), (186, 26840), (188, 26858), (192, 26882), (207, 27221), (208, 27230), (210, 27242), (218, 27353), (226, 27482), (230, 27527), (231, 27542), (237, 27593), (242, 27635), (244, 27644),

Gene: Wheelie_35 Start: 23052, Stop: 26228, Start Num: 10
Candidate Starts for Wheelie_35:
(Start: 10 @23052 has 45 MA's), (15, 23208), (17, 23241), (20, 23259), (21, 23271), (29, 23337), (31, 23370), (34, 23406), (44, 23517), (50, 23634), (56, 23709), (65, 23811), (66, 23820), (76, 23943), (78, 23994), (87, 24090), (99, 24360), (100, 24363), (102, 24381), (104, 24402), (111, 24513), (124, 24678), (134, 24759), (142, 24882), (154, 25005), (168, 25203), (175, 25263), (183, 25389), (186, 25398), (188, 25416), (192, 25440), (207, 25779), (208, 25788), (210, 25800), (218, 25911), (226, 26040), (230, 26085), (231, 26100), (237, 26151), (242, 26193), (244, 26202),

Gene: Wilca_35 Start: 21893, Stop: 24904, Start Num: 9
Candidate Starts for Wilca_35:
(Start: 9 @21893 has 11 MA's), (15, 22052), (19, 22082), (33, 22193), (47, 22259), (54, 22373), (56, 22385), (61, 22460), (66, 22496), (69, 22532), (74, 22592), (76, 22619), (84, 22727), (86, 22757), (88, 22835), (90, 22865), (91, 22874), (100, 23039), (104, 23078), (110, 23171), (119, 23306), (129, 23381), (131, 23414), (138, 23483), (140, 23537), (155, 23702), (156, 23705), (162, 23750), (165, 23792), (171, 23900), (174, 23930), (175, 23945), (181, 24050), (200, 24305), (201, 24332), (206, 24455), (207, 24461), (210, 24482), (212, 24524), (218, 24593), (224, 24683), (226, 24722), (230, 24767), (237, 24827), (242, 24869), (244, 24878),

Gene: Zagie_35 Start: 23189, Stop: 26482, Start Num: 10
Candidate Starts for Zagie_35:
(Start: 10 @23189 has 45 MA's), (15, 23345), (25, 23447), (26, 23459), (27, 23468), (32, 23552), (41, 23705), (53, 23912), (55, 23930), (56, 23939), (61, 24014), (65, 24041), (76, 24173), (77, 24206), (83, 24269), (88, 24389), (89, 24416), (92, 24440), (94, 24512), (104, 24632), (106, 24659), (117, 24842), (120, 24884), (129, 24935), (130, 24947), (144, 25154), (151, 25226), (154, 25259), (156, 25280), (167, 25427), (169, 25466), (174, 25505), (175, 25517), (181, 25622), (186, 25652), (187, 25655), (188, 25670), (190, 25676), (192, 25694), (207, 26033), (208, 26042), (210, 26054), (218, 26165), (226, 26294), (230, 26339), (231, 26354), (237, 26405), (242, 26447), (244, 26456),

Gene: ZestyBestie_34 Start: 23007, Stop: 26183, Start Num: 10
Candidate Starts for ZestyBestie_34:
(Start: 10 @23007 has 45 MA's), (15, 23163), (17, 23196), (21, 23226), (29, 23292), (31, 23325), (34, 23361), (44, 23472), (56, 23664), (57, 23679), (66, 23775), (76, 23898), (78, 23949), (87, 24045), (99, 24315), (100, 24318), (102, 24336), (104, 24357), (111, 24468), (112, 24477), (124, 24633), (134, 24714), (142, 24837), (148, 24882), (154, 24960), (168, 25158), (175, 25218), (180, 25299), (183, 25344), (186, 25353), (188, 25371), (192, 25395), (207, 25734), (208, 25743), (210, 25755), (218, 25866), (226, 25995), (230, 26040), (231, 26055), (237, 26106), (242, 26148), (244, 26157),

Gene: Zhafia_38 Start: 23530, Stop: 26706, Start Num: 10
Candidate Starts for Zhafia_38:
(Start: 10 @23530 has 45 MA's), (15, 23686), (17, 23719), (20, 23737), (21, 23749), (29, 23815), (31, 23848), (34, 23884), (44, 23995), (50, 24112), (56, 24187), (57, 24202), (65, 24289), (66, 24298), (76, 24421), (78, 24472), (87, 24568), (99, 24838), (100, 24841), (102, 24859), (104, 24880), (111, 24991), (124, 25156), (134, 25237), (142, 25360), (154, 25483), (168, 25681), (175, 25741), (183, 25867), (186, 25876), (188, 25894), (192, 25918), (207, 26257), (208, 26266), (210, 26278), (218, 26389), (226, 26518), (230, 26563), (231, 26578), (237, 26629), (242, 26671), (244, 26680),