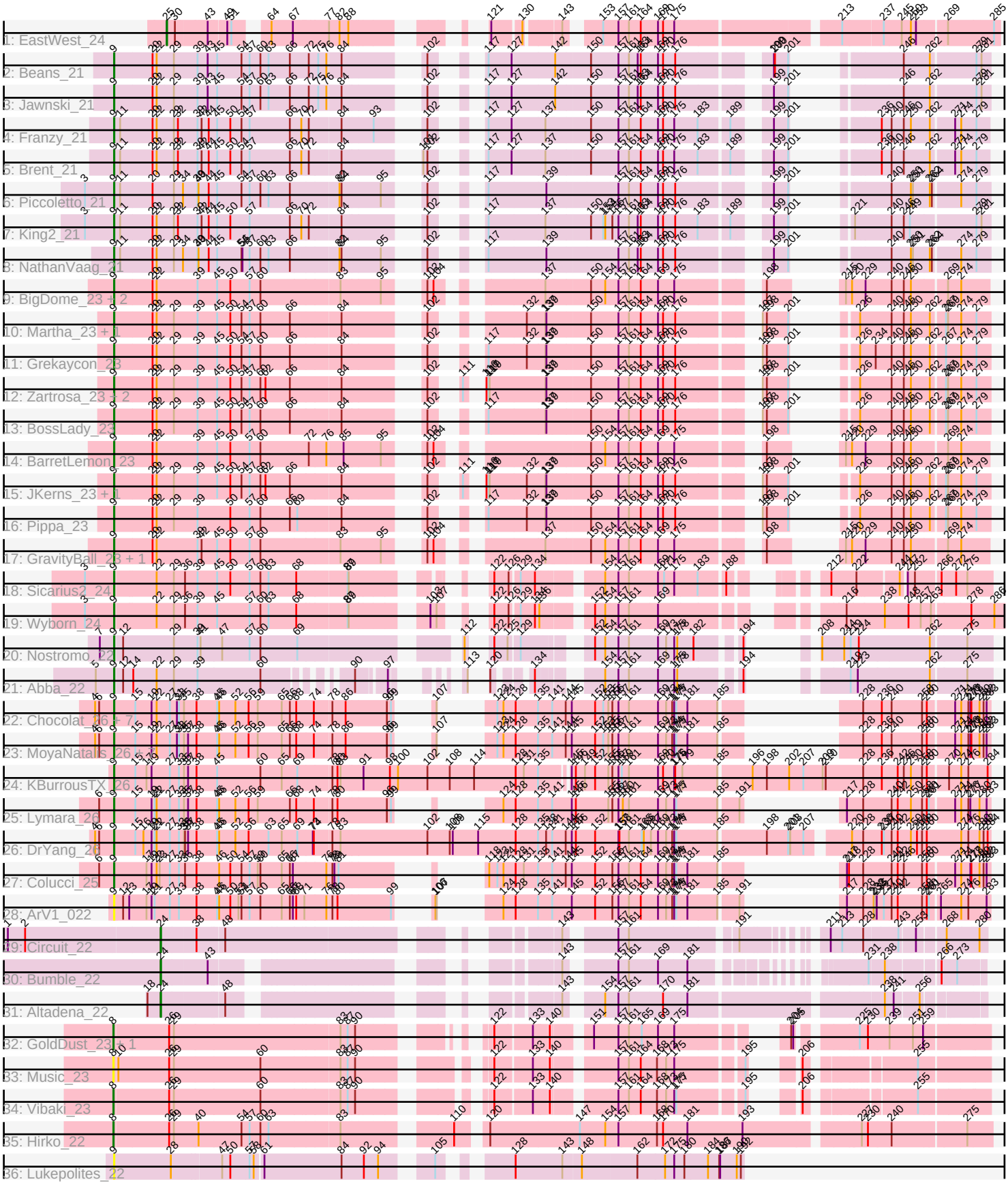
Pham 347658


1: EastWest_24
2: Beans_21
3: Jawnski_21
4: Franzy_21
5: Brent_21
6: Piccoletto_21
7: King2_21
8: NathanVaag_21
9: BigDome_23 + 2
10: Martha_23 + 1
11: Grekaycon_23
12: Zartrosa_23 + 2
13: BossLady_23
14: BarretLemon_23
15: JKerns_23 + 1
16: Pippa_23
17: GravityBall_23 + 1
18: Sicarius2_24
19: Wyborn_24
20: Nostromo_22
21: Abba_22
22: Chocolat_26 + 7
23: MoyaNatalia_26
24: KBurrousTX_26
25: Lymara_26
26: DrYang_26
27: Colucci_25
28: ArV1_022
29: Circuit_22
30: Bumble_22
31: Altadena_22
32: GoldDust_23 + 1
33: Music_23
34: Vibaki_23
35: Hirko_22
36: Lukepolites_22

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 347658 Report

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

Pham number 347658 has 58 members, 4 are drafts.

Phages represented in each track:
• Track 1 : EastWest_24
• Track 2 : Beans_21
• Track 3 : Jawnski_21
• Track 4 : Franzy_21
• Track 5 : Brent_21
• Track 6 : Piccoletto_21
• Track 7 : King2_21
• Track 8 : NathanVaag_21
• Track 9 : BigDome_23, Timinator_23, LeeroyJ_23
• Track 10 : Martha_23, TaeYoung_23
• Track 11 : Grekaycon_23
• Track 12 : Zartrosa_23, Sonny_23, Shade_23
• Track 13 : BossLady_23
• Track 14 : BarretLemon_23
• Track 15 : JKerns_23, Jordan_23
• Track 16 : Pippa_23
• Track 17 : GravityBall_23, StevieBAY_23
• Track 18 : Sicarius2_24
• Track 19 : Wyborn_24
• Track 20 : Nostromo_22
• Track 21 : Abba_22
• Track 22 : Chocolat_26, Mordred_26, Kabreeze_26, Scavito_26, Chipper1996_260, JaNo_26, Tophat_26, HumptyDumpty_26
• Track 23 : MoyaNatalis_26, Conboy_26, PrincessTrina_26, Chubster_26, RosiePosie_26, EdgarPoe_26, Linus_26, JayCookie_26
• Track 24 : KBurrousTX_26
• Track 25 : Lymara_26
• Track 26 : DrYang_26
• Track 27 : Colucci_25
• Track 28 : ArV1_022
• Track 29 : Circuit_22
• Track 30 : Bumble_22
• Track 31 : Altadena_22
• Track 32 : GoldDust_23, Gooberta_23
• Track 33 : Music_23
• Track 34 : Vibaki_23
• Track 35 : Hirko_22

• Track 36 : Lukepolites_22

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

The start number called the most often in the published annotations is 9, it was called in 46 of the 54 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abba_22, ArV1_022, BarretLemon_23, Beans_21, BigDome_23, BossLady_23, Brent_21, Chipper1996_260, Chocolat_26, Chubster_26, Colucci_25, Conboy_26, DrYang_26, EdgarPoe_26, Franzy_21, GravityBall_23, Grekaycon_23, HumptyDumpty_26, JKerns_23, JaNo_26, Jawnski_21, JayCookie_26, Jordan_23, KBurrousTX_26, Kabreeze_26, King2_21, LeeroyJ_23, Linus_26, Lukepolites_22, Lymara_26, Martha_23, Mordred_26, MoyaNatalis_26, NathanVaag_21, Nostromo_22, Piccoletto_21, Pippa_23, PrincessTrina_26, RosiePosie_26, Scavito_26, Shade_23, Sicarius2_24, Sonny_23, StevieBAY_23, TaeYoung_23, Timinator_23, Tophat_26, Wyborn_24, Zartrosa_23,

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

Genes that do not have the "Most Annotated" start:
• Altadena_22, Bumble_22, Circuit_22, EastWest_24, GoldDust_23, Gooberta_23, Hirko_22, Music_23, Vibaki_23,

Summary by start number:

Start 8:
• Found in 5 of 58 (8.6%) of genes in pham
• Manual Annotations of this start: 4 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GoldDust_23 (FL), Gooberta_23 (FL), Hirko_22 (FL), Music_23 (FL), Vibaki_23 (FL),

Start 9:
• Found in 49 of 58 (84.5%) of genes in pham
• Manual Annotations of this start: 46 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abba_22 (AO3), ArV1_022 (AR), BarretLemon_23 (AO2), Beans_21 (AO1), BigDome_23 (AO2), BossLady_23 (AO2), Brent_21 (AO1), Chipper1996_260 (AR), Chocolat_26 (AR), Chubster_26 (AR), Colucci_25 (AR), Conboy_26 (AR), DrYang_26 (AR), EdgarPoe_26 (AR), Franzy_21 (AO1), GravityBall_23 (AO2), Grekaycon_23 (AO2), HumptyDumpty_26 (AR), JKerns_23 (AO2), JaNo_26 (AR), Jawnski_21 (AO1), JayCookie_26 (AR), Jordan_23 (AO2), KBurrousTX_26 (AR), Kabreeze_26 (AR), King2_21 (AO1), LeeroyJ_23 (AO2), Linus_26 (AR), Lukepolites_22 (singleton), Lymara_26 (AR), Martha_23 (AO2), Mordred_26 (AR), MoyaNatalis_26 (AR), NathanVaag_21 (AO1), Nostromo_22 (AO3), Piccoletto_21 (AO1), Pippa_23 (AO2), PrincessTrina_26 (AR), RosiePosie_26 (AR), Scavito_26 (AR), Shade_23 (AO2), Sicarius2_24 (AO2), Sonny_23 (AO2), StevieBAY_23 (AO2), TaeYoung_23 (AO2), Timinator_23 (AO2),

Tophat_26 (AR), Wyborn_24 (AO2), Zartrosa_23 (AO2),

Start 24:
• Found in 3 of 58 (5.2%) of genes in pham
• Manual Annotations of this start: 3 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altadena_22 (FH), Bumble_22 (FH), Circuit_22 (FH),

Start 25:
• Found in 1 of 58 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EastWest_24 (AO),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, AO, AR, AO3, AO2, AO1, FH, FL,

Info for manual annotations of cluster AO:
•Start number 25 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:
•Start number 9 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 9 was manually annotated 18 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 9 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster AR:
•Start number 9 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster FH:
•Start number 24 was manually annotated 3 times for cluster FH.

Info for manual annotations of cluster FL:
•Start number 8 was manually annotated 4 times for cluster FL.

Gene Information:

Gene: Abba_22 Start: 19101, Stop: 20864, Start Num: 9
Candidate Starts for Abba_22:
(5, 19050), (Start: 9 @19101 has 46 MA's), (12, 19122), (14, 19149), (22, 19218), (29, 19266), (39, 19335), (60, 19518), (90, 19686), (97, 19755), (113, 19818), (120, 19821), (134, 19887), (154, 20013), (157, 20049), (161, 20079), (169, 20160), (175, 20205), (178, 20214), (194, 20361), (219, 20475), (223, 20493), (262, 20697), (275, 20793),

Gene: Altadena_22 Start: 18121, Stop: 20040, Start Num: 24

Candidate Starts for Altadena_22:
(18, 18082), (Start: 24 @18121 has 3 MA's), (48, 18295), (143, 18976), (154, 19051), (157, 19087), (161, 19117), (170, 19213), (181, 19279), (238, 19801), (241, 19819), (256, 19882),

Gene: ArV1_022 Start: 20005, Stop: 21969, Start Num: 9
Candidate Starts for ArV1_022:
(Start: 9 @20005 has 46 MA's), (12, 20026), (13, 20044), (17, 20095), (19, 20110), (21, 20119), (27, 20161), (33, 20188), (38, 20239), (45, 20293), (46, 20299), (50, 20332), (53, 20356), (54, 20365), (57, 20389), (60, 20419), (65, 20482), (66, 20506), (67, 20515), (68, 20524), (71, 20548), (76, 20611), (78, 20623), (80, 20638), (99, 20791), (106, 20809), (107, 20812), (124, 20866), (128, 20899), (135, 20965), (141, 21007), (145, 21064), (152, 21133), (156, 21181), (157, 21199), (161, 21229), (164, 21262), (169, 21310), (173, 21334), (174, 21352), (175, 21355), (177, 21361), (181, 21391), (185, 21478), (191, 21529), (217, 21562), (228, 21610), (232, 21640), (233, 21643), (235, 21649), (237, 21670), (240, 21691), (242, 21709), (258, 21781), (260, 21793), (261, 21799), (265, 21823), (274, 21883), (276, 21904), (283, 21958),

Gene: BarretLemon_23 Start: 18796, Stop: 20910, Start Num: 9
Candidate Starts for BarretLemon_23:
(Start: 9 @18796 has 46 MA's), (20, 18907), (22, 18919), (39, 19036), (45, 19093), (50, 19132), (57, 19189), (60, 19219), (72, 19360), (76, 19411), (85, 19456), (95, 19558), (102, 19612), (104, 19630), (150, 19981), (154, 20023), (157, 20059), (161, 20089), (164, 20122), (169, 20170), (175, 20215), (198, 20413), (215, 20503), (220, 20521), (229, 20560), (240, 20635), (246, 20671), (250, 20692), (269, 20788), (274, 20827),

Gene: Beans_21 Start: 18506, Stop: 20575, Start Num: 9
Candidate Starts for Beans_21:
(Start: 9 @18506 has 46 MA's), (20, 18614), (22, 18626), (29, 18674), (39, 18743), (43, 18773), (45, 18800), (54, 18872), (57, 18896), (60, 18926), (63, 18950), (66, 19013), (72, 19067), (75, 19094), (76, 19118), (84, 19157), (102, 19322), (117, 19385), (127, 19451), (142, 19574), (150, 19670), (157, 19748), (161, 19778), (163, 19802), (164, 19811), (169, 19859), (170, 19874), (176, 19907), (199, 20123), (200, 20126), (201, 20165), (246, 20333), (262, 20408), (279, 20534), (281, 20549),

Gene: BigDome_23 Start: 18784, Stop: 20898, Start Num: 9
Candidate Starts for BigDome_23:
(Start: 9 @18784 has 46 MA's), (20, 18895), (22, 18907), (39, 19024), (45, 19081), (50, 19120), (57, 19177), (60, 19207), (83, 19435), (95, 19546), (102, 19600), (104, 19618), (137, 19846), (150, 19969), (154, 20011), (157, 20047), (161, 20077), (164, 20110), (169, 20158), (175, 20203), (198, 20401), (215, 20491), (220, 20509), (229, 20548), (240, 20623), (246, 20659), (250, 20680), (269, 20776), (274, 20815),

Gene: BossLady_23 Start: 18820, Stop: 20889, Start Num: 9
Candidate Starts for BossLady_23:
(Start: 9 @18820 has 46 MA's), (20, 18928), (22, 18940), (29, 18988), (39, 19057), (45, 19114), (50, 19153), (54, 19186), (57, 19210), (60, 19240), (66, 19327), (84, 19471), (102, 19636), (117, 19699), (137, 19861), (139, 19864), (150, 19984), (157, 20062), (161, 20092), (164, 20125), (169, 20173), (170, 20188), (176, 20221), (197, 20404), (198, 20416), (201, 20479), (226, 20524), (240, 20611), (246, 20647), (250, 20668), (262, 20722), (267, 20758), (269, 20764), (274, 20803), (279, 20848),

Gene: Brent_21 Start: 18489, Stop: 20555, Start Num: 9
Candidate Starts for Brent_21:
(Start: 9 @18489 has 46 MA's), (11, 18504), (20, 18597), (22, 18609), (29, 18657), (32, 18669), (39, 18726), (42, 18738), (44, 18759), (45, 18783), (50, 18822), (54, 18855), (57, 18879), (66, 18996), (70, 19029), (72, 19050), (84, 19140), (101, 19293), (102, 19305), (117, 19368), (127, 19434), (137,

19530), (150, 19653), (157, 19731), (161, 19761), (164, 19794), (169, 19842), (170, 19857), (175, 19887), (183, 19953), (189, 20034), (199, 20106), (201, 20148), (236, 20253), (240, 20280), (246, 20316), (262, 20391), (271, 20454), (274, 20472), (279, 20517),

Gene: Bumble_22 Start: 18132, Stop: 19916, Start Num: 24
Candidate Starts for Bumble_22:
(Start: 24 @18132 has 3 MA's), (43, 18264), (143, 18984), (157, 19098), (161, 19128), (169, 19209), (181, 19290), (231, 19623), (238, 19662), (266, 19794), (273, 19839),

Gene: Chipper1996_260 Start: 21687, Stop: 23657, Start Num: 9
Candidate Starts for Chipper1996_260:
(4, 21633), (6, 21645), (Start: 9 @21687 has 46 MA's), (15, 21750), (19, 21798), (22, 21813), (27, 21849), (31, 21870), (33, 21876), (35, 21891), (38, 21927), (45, 21981), (46, 21987), (52, 22035), (56, 22074), (59, 22101), (65, 22170), (66, 22194), (68, 22212), (74, 22263), (78, 22311), (86, 22350), (96, 22467), (99, 22479), (107, 22500), (123, 22536), (124, 22554), (128, 22587), (135, 22653), (141, 22695), (144, 22734), (145, 22752), (152, 22821), (153, 22845), (155, 22860), (156, 22869), (157, 22887), (161, 22917), (169, 22998), (173, 23022), (174, 23040), (175, 23043), (177, 23049), (181, 23079), (185, 23166), (228, 23298), (236, 23352), (240, 23379), (258, 23469), (260, 23481), (271, 23553), (274, 23571), (276, 23592), (277, 23598), (278, 23601), (280, 23625), (282, 23637), (283, 23646),

Gene: Chocolat_26 Start: 21687, Stop: 23657, Start Num: 9
Candidate Starts for Chocolat_26:
(4, 21633), (6, 21645), (Start: 9 @21687 has 46 MA's), (15, 21750), (19, 21798), (22, 21813), (27, 21849), (31, 21870), (33, 21876), (35, 21891), (38, 21927), (45, 21981), (46, 21987), (52, 22035), (56, 22074), (59, 22101), (65, 22170), (66, 22194), (68, 22212), (74, 22263), (78, 22311), (86, 22350), (96, 22467), (99, 22479), (107, 22500), (123, 22536), (124, 22554), (128, 22587), (135, 22653), (141, 22695), (144, 22734), (145, 22752), (152, 22821), (153, 22845), (155, 22860), (156, 22869), (157, 22887), (161, 22917), (169, 22998), (173, 23022), (174, 23040), (175, 23043), (177, 23049), (181, 23079), (185, 23166), (228, 23298), (236, 23352), (240, 23379), (258, 23469), (260, 23481), (271, 23553), (274, 23571), (276, 23592), (277, 23598), (278, 23601), (280, 23625), (282, 23637), (283, 23646),

Gene: Chubster_26 Start: 21458, Stop: 23428, Start Num: 9
Candidate Starts for Chubster_26:
(4, 21404), (6, 21416), (Start: 9 @21458 has 46 MA's), (15, 21521), (19, 21569), (22, 21584), (27, 21620), (31, 21641), (33, 21647), (35, 21662), (37, 21674), (38, 21698), (45, 21752), (46, 21758), (52, 21806), (56, 21845), (59, 21872), (65, 21941), (66, 21965), (68, 21983), (74, 22034), (78, 22082), (86, 22121), (96, 22238), (99, 22250), (107, 22271), (123, 22307), (124, 22325), (128, 22358), (135, 22424), (141, 22466), (144, 22505), (145, 22523), (152, 22592), (153, 22616), (155, 22631), (156, 22640), (157, 22658), (161, 22688), (169, 22769), (173, 22793), (174, 22811), (175, 22814), (177, 22820), (181, 22850), (185, 22937), (228, 23069), (236, 23123), (240, 23150), (258, 23240), (260, 23252), (271, 23324), (274, 23342), (276, 23363), (277, 23369), (278, 23372), (280, 23396), (282, 23408), (283, 23417),

Gene: Circuit_22 Start: 18127, Stop: 20016, Start Num: 24
Candidate Starts for Circuit_22:
(1, 17686), (2, 17737), (Start: 24 @18127 has 3 MA's), (38, 18226), (48, 18301), (143, 19042), (157, 19153), (161, 19183), (191, 19462), (211, 19615), (213, 19648), (228, 19705), (243, 19795), (253, 19837), (268, 19903), (280, 19993),

Gene: Colucci_25 Start: 21154, Stop: 23121, Start Num: 9
Candidate Starts for Colucci_25:

(6, 21112), (Start: 9 @21154 has 46 MA's), (17, 21247), (19, 21262), (22, 21277), (23, 21286), (27, 21313), (33, 21340), (36, 21358), (38, 21391), (46, 21451), (50, 21484), (54, 21517), (57, 21541), (59, 21565), (60, 21571), (65, 21634), (66, 21658), (67, 21667), (76, 21763), (78, 21775), (79, 21781), (81, 21793), (118, 21976), (123, 22000), (124, 22018), (128, 22051), (131, 22075), (135, 22117), (141, 22159), (144, 22198), (145, 22216), (152, 22285), (156, 22333), (157, 22351), (161, 22381), (164, 22414), (169, 22462), (173, 22486), (174, 22504), (175, 22507), (177, 22513), (181, 22543), (185, 22630), (217, 22714), (218, 22720), (228, 22762), (240, 22843), (242, 22861), (246, 22879), (258, 22933), (260, 22945), (271, 23017), (274, 23035), (277, 23062), (278, 23065), (280, 23089), (282, 23101), (283, 23110),

Gene: Conboy_26 Start: 21686, Stop: 23656, Start Num: 9
Candidate Starts for Conboy_26:
(4, 21632), (6, 21644), (Start: 9 @21686 has 46 MA's), (15, 21749), (19, 21797), (22, 21812), (27, 21848), (31, 21869), (33, 21875), (35, 21890), (37, 21902), (38, 21926), (45, 21980), (46, 21986), (52, 22034), (56, 22073), (59, 22100), (65, 22169), (66, 22193), (68, 22211), (74, 22262), (78, 22310), (86, 22349), (96, 22466), (99, 22478), (107, 22499), (123, 22535), (124, 22553), (128, 22586), (135, 22652), (141, 22694), (144, 22733), (145, 22751), (152, 22820), (153, 22844), (155, 22859), (156, 22868), (157, 22886), (161, 22916), (169, 22997), (173, 23021), (174, 23039), (175, 23042), (177, 23048), (181, 23078), (185, 23165), (228, 23297), (236, 23351), (240, 23378), (258, 23468), (260, 23480), (271, 23552), (274, 23570), (276, 23591), (277, 23597), (278, 23600), (280, 23624), (282, 23636), (283, 23645),

Gene: DrYang_26 Start: 21885, Stop: 24371, Start Num: 9
Candidate Starts for DrYang_26:
(4, 21831), (6, 21843), (Start: 9 @21885 has 46 MA's), (15, 21948), (16, 21972), (19, 21996), (21, 22005), (22, 22011), (27, 22047), (33, 22074), (35, 22089), (36, 22092), (37, 22101), (38, 22125), (45, 22179), (46, 22185), (52, 22233), (56, 22272), (63, 22329), (65, 22368), (69, 22413), (73, 22458), (74, 22461), (78, 22509), (83, 22533), (102, 22785), (108, 22851), (109, 22860), (115, 22935), (128, 23043), (135, 23109), (138, 23133), (141, 23151), (144, 23190), (145, 23208), (146, 23220), (152, 23277), (157, 23343), (158, 23346), (161, 23373), (165, 23409), (166, 23415), (167, 23433), (169, 23454), (173, 23478), (174, 23496), (175, 23499), (177, 23505), (185, 23622), (198, 23754), (201, 23817), (203, 23823), (207, 23862), (220, 23967), (228, 24000), (236, 24054), (237, 24060), (240, 24081), (242, 24099), (250, 24138), (254, 24156), (258, 24171), (260, 24183), (274, 24285), (276, 24306), (280, 24339), (282, 24351), (284, 24363),

Gene: EastWest_24 Start: 18793, Stop: 20760, Start Num: 25
Candidate Starts for EastWest_24:
(Start: 25 @18793 has 1 MA's), (30, 18814), (43, 18901), (49, 18946), (51, 18958), (64, 19027), (67, 19084), (77, 19180), (82, 19210), (88, 19234), (121, 19453), (130, 19531), (143, 19621), (153, 19690), (157, 19735), (161, 19765), (164, 19798), (169, 19846), (170, 19861), (175, 19891), (213, 20326), (237, 20440), (245, 20491), (250, 20518), (253, 20533), (269, 20614), (285, 20743),

Gene: EdgarPoe_26 Start: 21686, Stop: 23656, Start Num: 9
Candidate Starts for EdgarPoe_26:
(4, 21632), (6, 21644), (Start: 9 @21686 has 46 MA's), (15, 21749), (19, 21797), (22, 21812), (27, 21848), (31, 21869), (33, 21875), (35, 21890), (37, 21902), (38, 21926), (45, 21980), (46, 21986), (52, 22034), (56, 22073), (59, 22100), (65, 22169), (66, 22193), (68, 22211), (74, 22262), (78, 22310), (86, 22349), (96, 22466), (99, 22478), (107, 22499), (123, 22535), (124, 22553), (128, 22586), (135, 22652), (141, 22694), (144, 22733), (145, 22751), (152, 22820), (153, 22844), (155, 22859), (156, 22868), (157, 22886), (161, 22916), (169, 22997), (173, 23021), (174, 23039), (175, 23042), (177, 23048), (181, 23078), (185, 23165), (228, 23297), (236, 23351), (240, 23378), (258, 23468), (260, 23480), (271, 23552), (274, 23570), (276, 23591), (277, 23597), (278, 23600), (280, 23624), (282, 23636), (283, 23645),

Gene: Franzy_21 Start: 18488, Stop: 20554, Start Num: 9
Candidate Starts for Franzy_21:
(Start: 9 @18488 has 46 MA's), (11, 18503), (20, 18596), (22, 18608), (29, 18656), (32, 18668), (39, 18725), (42, 18737), (44, 18758), (45, 18782), (50, 18821), (54, 18854), (57, 18878), (66, 18995), (70, 19028), (72, 19049), (84, 19139), (93, 19229), (102, 19304), (117, 19367), (127, 19433), (137, 19529), (150, 19652), (157, 19730), (161, 19760), (164, 19793), (169, 19841), (170, 19856), (175, 19886), (183, 19952), (189, 20033), (199, 20105), (201, 20147), (236, 20252), (240, 20279), (246, 20315), (250, 20336), (262, 20390), (271, 20453), (274, 20471), (279, 20516),

Gene: GoldDust_23 Start: 20859, Stop: 22940, Start Num: 8
Candidate Starts for GoldDust_23:
(Start: 8 @20859 has 4 MA's), (26, 21012), (29, 21024), (83, 21501), (87, 21519), (90, 21537), (122, 21774), (133, 21873), (140, 21915), (151, 21999), (157, 22068), (161, 22098), (165, 22134), (169, 22179), (175, 22224), (204, 22440), (205, 22446), (225, 22584), (230, 22608), (239, 22671), (251, 22740), (259, 22770),

Gene: Gooberta_23 Start: 20858, Stop: 22939, Start Num: 8
Candidate Starts for Gooberta_23:
(Start: 8 @20858 has 4 MA's), (26, 21011), (29, 21023), (83, 21500), (87, 21518), (90, 21536), (122, 21773), (133, 21872), (140, 21914), (151, 21998), (157, 22067), (161, 22097), (165, 22133), (169, 22178), (175, 22223), (204, 22439), (205, 22445), (225, 22583), (230, 22607), (239, 22670), (251, 22739), (259, 22769),

Gene: GravityBall_23 Start: 18795, Stop: 20909, Start Num: 9
Candidate Starts for GravityBall_23:
(Start: 9 @18795 has 46 MA's), (20, 18906), (22, 18918), (39, 19035), (42, 19047), (45, 19092), (50, 19131), (57, 19188), (60, 19218), (83, 19446), (95, 19557), (102, 19611), (104, 19629), (137, 19857), (150, 19980), (154, 20022), (157, 20058), (161, 20088), (164, 20121), (169, 20169), (175, 20214), (198, 20412), (215, 20502), (220, 20520), (229, 20559), (240, 20634), (246, 20670), (250, 20691), (269, 20787), (274, 20826),

Gene: Grekaycon_23 Start: 18829, Stop: 20898, Start Num: 9
Candidate Starts for Grekaycon_23:
(Start: 9 @18829 has 46 MA's), (20, 18937), (22, 18949), (29, 18997), (39, 19066), (45, 19123), (50, 19162), (54, 19195), (57, 19219), (60, 19249), (66, 19336), (84, 19480), (102, 19645), (117, 19708), (132, 19816), (137, 19870), (139, 19873), (150, 19993), (157, 20071), (161, 20101), (164, 20134), (169, 20182), (170, 20197), (176, 20230), (197, 20413), (198, 20425), (201, 20488), (226, 20533), (234, 20575), (240, 20620), (246, 20656), (250, 20677), (262, 20731), (267, 20767), (274, 20812), (279, 20857),

Gene: Hirko_22 Start: 20345, Stop: 22702, Start Num: 8
Candidate Starts for Hirko_22:
(Start: 8 @20345 has 4 MA's), (26, 20498), (29, 20510), (40, 20582), (54, 20708), (57, 20732), (60, 20762), (63, 20786), (83, 20990), (110, 21248), (120, 21314), (147, 21566), (154, 21641), (157, 21677), (168, 21785), (170, 21803), (181, 21869), (193, 22031), (227, 22343), (230, 22361), (240, 22427), (275, 22631),

Gene: HumptyDumpty_26 Start: 21685, Stop: 23655, Start Num: 9
Candidate Starts for HumptyDumpty_26:
(4, 21631), (6, 21643), (Start: 9 @21685 has 46 MA's), (15, 21748), (19, 21796), (22, 21811), (27, 21847), (31, 21868), (33, 21874), (35, 21889), (38, 21925), (45, 21979), (46, 21985), (52, 22033), (56, 22072), (59, 22099), (65, 22168), (66, 22192), (68, 22210), (74, 22261), (78, 22309), (86, 22348), (96,

22465), (99, 22477), (107, 22498), (123, 22534), (124, 22552), (128, 22585), (135, 22651), (141, 22693), (144, 22732), (145, 22750), (152, 22819), (153, 22843), (155, 22858), (156, 22867), (157, 22885), (161, 22915), (169, 22996), (173, 23020), (174, 23038), (175, 23041), (177, 23047), (181, 23077), (185, 23164), (228, 23296), (236, 23350), (240, 23377), (258, 23467), (260, 23479), (271, 23551), (274, 23569), (276, 23590), (277, 23596), (278, 23599), (280, 23623), (282, 23635), (283, 23644),

Gene: JKerns_23 Start: 18856, Stop: 20925, Start Num: 9
Candidate Starts for JKerns_23:
(Start: 9 @18856 has 46 MA's), (20, 18964), (22, 18976), (29, 19024), (39, 19093), (45, 19150), (50, 19189), (54, 19222), (57, 19246), (60, 19276), (62, 19291), (66, 19363), (84, 19507), (102, 19672), (111, 19711), (116, 19729), (117, 19735), (119, 19738), (132, 19843), (137, 19897), (139, 19900), (150, 20020), (157, 20098), (161, 20128), (164, 20161), (169, 20209), (170, 20224), (176, 20257), (197, 20440), (198, 20452), (201, 20515), (226, 20560), (240, 20647), (246, 20683), (250, 20704), (262, 20758), (267, 20794), (269, 20800), (274, 20839), (279, 20884),

Gene: JaNo_26 Start: 21685, Stop: 23655, Start Num: 9
Candidate Starts for JaNo_26:
(4, 21631), (6, 21643), (Start: 9 @21685 has 46 MA's), (15, 21748), (19, 21796), (22, 21811), (27, 21847), (31, 21868), (33, 21874), (35, 21889), (38, 21925), (45, 21979), (46, 21985), (52, 22033), (56, 22072), (59, 22099), (65, 22168), (66, 22192), (68, 22210), (74, 22261), (78, 22309), (86, 22348), (96, 22465), (99, 22477), (107, 22498), (123, 22534), (124, 22552), (128, 22585), (135, 22651), (141, 22693), (144, 22732), (145, 22750), (152, 22819), (153, 22843), (155, 22858), (156, 22867), (157, 22885), (161, 22915), (169, 22996), (173, 23020), (174, 23038), (175, 23041), (177, 23047), (181, 23077), (185, 23164), (228, 23296), (236, 23350), (240, 23377), (258, 23467), (260, 23479), (271, 23551), (274, 23569), (276, 23590), (277, 23596), (278, 23599), (280, 23623), (282, 23635), (283, 23644),

Gene: Jawnski_21 Start: 18501, Stop: 20570, Start Num: 9
Candidate Starts for Jawnski_21:
(Start: 9 @18501 has 46 MA's), (20, 18609), (22, 18621), (29, 18669), (39, 18738), (43, 18768), (45, 18795), (54, 18867), (57, 18891), (60, 18921), (63, 18945), (66, 19008), (72, 19062), (75, 19089), (76, 19113), (84, 19152), (102, 19317), (117, 19380), (127, 19446), (142, 19569), (150, 19665), (157, 19743), (161, 19773), (163, 19797), (164, 19806), (169, 19854), (170, 19869), (176, 19902), (199, 20118), (201, 20160), (246, 20328), (262, 20403), (279, 20529), (281, 20544),

Gene: JayCookie_26 Start: 21688, Stop: 23658, Start Num: 9
Candidate Starts for JayCookie_26:
(4, 21634), (6, 21646), (Start: 9 @21688 has 46 MA's), (15, 21751), (19, 21799), (22, 21814), (27, 21850), (31, 21871), (33, 21877), (35, 21892), (37, 21904), (38, 21928), (45, 21982), (46, 21988), (52, 22036), (56, 22075), (59, 22102), (65, 22171), (66, 22195), (68, 22213), (74, 22264), (78, 22312), (86, 22351), (96, 22468), (99, 22480), (107, 22501), (123, 22537), (124, 22555), (128, 22588), (135, 22654), (141, 22696), (144, 22735), (145, 22753), (152, 22822), (153, 22846), (155, 22861), (156, 22870), (157, 22888), (161, 22918), (169, 22999), (173, 23023), (174, 23041), (175, 23044), (177, 23050), (181, 23080), (185, 23167), (228, 23299), (236, 23353), (240, 23380), (258, 23470), (260, 23482), (271, 23554), (274, 23572), (276, 23593), (277, 23599), (278, 23602), (280, 23626), (282, 23638), (283, 23647),

Gene: Jordan_23 Start: 18826, Stop: 20895, Start Num: 9
Candidate Starts for Jordan_23:
(Start: 9 @18826 has 46 MA's), (20, 18934), (22, 18946), (29, 18994), (39, 19063), (45, 19120), (50, 19159), (54, 19192), (57, 19216), (60, 19246), (62, 19261), (66, 19333), (84, 19477), (102, 19642), (111, 19681), (116, 19699), (117, 19705), (119, 19708), (132, 19813), (137, 19867), (139, 19870),

(150, 19990), (157, 20068), (161, 20098), (164, 20131), (169, 20179), (170, 20194), (176, 20227), (197, 20410), (198, 20422), (201, 20485), (226, 20530), (240, 20617), (246, 20653), (250, 20674), (262, 20728), (267, 20764), (269, 20770), (274, 20809), (279, 20854),

Gene: KBurrousTX_26 Start: 21713, Stop: 24196, Start Num: 9
Candidate Starts for KBurrousTX_26:
(Start: 9 @21713 has 46 MA's), (15, 21773), (17, 21806), (19, 21821), (27, 21872), (33, 21899), (35, 21914), (37, 21926), (38, 21950), (45, 22004), (60, 22130), (65, 22193), (69, 22238), (78, 22334), (80, 22349), (83, 22358), (91, 22421), (98, 22499), (100, 22523), (102, 22610), (108, 22676), (114, 22748), (128, 22868), (131, 22892), (135, 22934), (145, 23006), (146, 23018), (149, 23045), (152, 23075), (155, 23114), (156, 23123), (157, 23141), (159, 23150), (161, 23171), (169, 23252), (170, 23267), (175, 23297), (176, 23300), (179, 23318), (185, 23420), (196, 23510), (198, 23552), (202, 23618), (207, 23660), (209, 23717), (210, 23726), (228, 23837), (236, 23891), (242, 23936), (246, 23954), (250, 23975), (258, 24008), (260, 24020), (270, 24074), (274, 24110), (276, 24131), (284, 24188),

Gene: Kabreeze_26 Start: 21685, Stop: 23655, Start Num: 9
Candidate Starts for Kabreeze_26:
(4, 21631), (6, 21643), (Start: 9 @21685 has 46 MA's), (15, 21748), (19, 21796), (22, 21811), (27, 21847), (31, 21868), (33, 21874), (35, 21889), (38, 21925), (45, 21979), (46, 21985), (52, 22033), (56, 22072), (59, 22099), (65, 22168), (66, 22192), (68, 22210), (74, 22261), (78, 22309), (86, 22348), (96, 22465), (99, 22477), (107, 22498), (123, 22534), (124, 22552), (128, 22585), (135, 22651), (141, 22693), (144, 22732), (145, 22750), (152, 22819), (153, 22843), (155, 22858), (156, 22867), (157, 22885), (161, 22915), (169, 22996), (173, 23020), (174, 23038), (175, 23041), (177, 23047), (181, 23077), (185, 23164), (228, 23296), (236, 23350), (240, 23377), (258, 23467), (260, 23479), (271, 23551), (274, 23569), (276, 23590), (277, 23596), (278, 23599), (280, 23623), (282, 23635), (283, 23644),

Gene: King2_21 Start: 18492, Stop: 20561, Start Num: 9
Candidate Starts for King2_21:
(3, 18408), (Start: 9 @18492 has 46 MA's), (11, 18507), (20, 18600), (22, 18612), (29, 18660), (32, 18672), (39, 18729), (42, 18741), (44, 18762), (45, 18786), (50, 18825), (57, 18882), (66, 18999), (70, 19032), (72, 19053), (84, 19143), (102, 19308), (117, 19371), (137, 19533), (150, 19656), (153, 19692), (154, 19698), (156, 19716), (157, 19734), (161, 19764), (163, 19788), (164, 19797), (169, 19845), (170, 19860), (176, 19893), (183, 19956), (189, 20037), (199, 20109), (201, 20151), (221, 20181), (240, 20283), (246, 20319), (249, 20337), (279, 20520), (281, 20535),

Gene: LeeroyJ_23 Start: 18795, Stop: 20909, Start Num: 9
Candidate Starts for LeeroyJ_23:
(Start: 9 @18795 has 46 MA's), (20, 18906), (22, 18918), (39, 19035), (45, 19092), (50, 19131), (57, 19188), (60, 19218), (83, 19446), (95, 19557), (102, 19611), (104, 19629), (137, 19857), (150, 19980), (154, 20022), (157, 20058), (161, 20088), (164, 20121), (169, 20169), (175, 20214), (198, 20412), (215, 20502), (220, 20520), (229, 20559), (240, 20634), (246, 20670), (250, 20691), (269, 20787), (274, 20826),

Gene: Linus_26 Start: 21685, Stop: 23655, Start Num: 9
Candidate Starts for Linus_26:
(4, 21631), (6, 21643), (Start: 9 @21685 has 46 MA's), (15, 21748), (19, 21796), (22, 21811), (27, 21847), (31, 21868), (33, 21874), (35, 21889), (37, 21901), (38, 21925), (45, 21979), (46, 21985), (52, 22033), (56, 22072), (59, 22099), (65, 22168), (66, 22192), (68, 22210), (74, 22261), (78, 22309), (86, 22348), (96, 22465), (99, 22477), (107, 22498), (123, 22534), (124, 22552), (128, 22585), (135, 22651), (141, 22693), (144, 22732), (145, 22750), (152, 22819), (153, 22843), (155, 22858), (156, 22867), (157, 22885), (161, 22915), (169, 22996), (173, 23020), (174, 23038), (175, 23041), (177, 23047), (181, 23077), (185, 23164), (228, 23296), (236, 23350), (240, 23377), (258, 23467), (260,

23479), (271, 23551), (274, 23569), (276, 23590), (277, 23596), (278, 23599), (280, 23623), (282, 23635), (283, 23644),

Gene: Lukepolites_22 Start: 18009, Stop: 19670, Start Num: 9
Candidate Starts for Lukepolites_22:
(Start: 9 @18009 has 46 MA's), (28, 18177), (47, 18321), (50, 18345), (57, 18399), (58, 18411), (61, 18432), (84, 18660), (92, 18726), (94, 18768), (105, 18876), (128, 19017), (143, 19155), (148, 19203), (162, 19359), (172, 19440), (175, 19467), (180, 19497), (184, 19566), (186, 19599), (187, 19602), (190, 19650), (192, 19662),

Gene: Lymara_26 Start: 21683, Stop: 23653, Start Num: 9
Candidate Starts for Lymara_26:
(6, 21641), (Start: 9 @21683 has 46 MA's), (15, 21746), (19, 21794), (21, 21803), (22, 21809), (27, 21845), (33, 21872), (35, 21887), (37, 21899), (38, 21923), (45, 21977), (46, 21983), (52, 22031), (56, 22070), (59, 22097), (66, 22190), (68, 22208), (74, 22259), (78, 22307), (80, 22322), (96, 22463), (99, 22475), (124, 22550), (128, 22583), (135, 22649), (141, 22691), (145, 22748), (146, 22760), (155, 22856), (156, 22865), (157, 22883), (160, 22895), (161, 22913), (169, 22994), (173, 23018), (175, 23039), (177, 23045), (185, 23162), (191, 23213), (217, 23246), (228, 23294), (240, 23375), (242, 23393), (250, 23432), (258, 23465), (260, 23477), (261, 23483), (271, 23549), (274, 23567), (276, 23588), (277, 23594), (280, 23621), (283, 23642),

Gene: Martha_23 Start: 18767, Stop: 20836, Start Num: 9
Candidate Starts for Martha_23:
(Start: 9 @18767 has 46 MA's), (20, 18875), (22, 18887), (29, 18935), (39, 19004), (45, 19061), (50, 19100), (54, 19133), (57, 19157), (60, 19187), (66, 19274), (84, 19418), (102, 19583), (132, 19754), (137, 19808), (139, 19811), (150, 19931), (157, 20009), (161, 20039), (164, 20072), (169, 20120), (170, 20135), (176, 20168), (197, 20351), (198, 20363), (201, 20426), (226, 20471), (240, 20558), (246, 20594), (250, 20615), (262, 20669), (267, 20705), (269, 20711), (274, 20750), (279, 20795),

Gene: Mordred_26 Start: 21685, Stop: 23655, Start Num: 9
Candidate Starts for Mordred_26:
(4, 21631), (6, 21643), (Start: 9 @21685 has 46 MA's), (15, 21748), (19, 21796), (22, 21811), (27, 21847), (31, 21868), (33, 21874), (35, 21889), (38, 21925), (45, 21979), (46, 21985), (52, 22033), (56, 22072), (59, 22099), (65, 22168), (66, 22192), (68, 22210), (74, 22261), (78, 22309), (86, 22348), (96, 22465), (99, 22477), (107, 22498), (123, 22534), (124, 22552), (128, 22585), (135, 22651), (141, 22693), (144, 22732), (145, 22750), (152, 22819), (153, 22843), (155, 22858), (156, 22867), (157, 22885), (161, 22915), (169, 22996), (173, 23020), (174, 23038), (175, 23041), (177, 23047), (181, 23077), (185, 23164), (228, 23296), (236, 23350), (240, 23377), (258, 23467), (260, 23479), (271, 23551), (274, 23569), (276, 23590), (277, 23596), (278, 23599), (280, 23623), (282, 23635), (283, 23644),

Gene: MoyaNatalis_26 Start: 21688, Stop: 23658, Start Num: 9
Candidate Starts for MoyaNatalis_26:
(4, 21634), (6, 21646), (Start: 9 @21688 has 46 MA's), (15, 21751), (19, 21799), (22, 21814), (27, 21850), (31, 21871), (33, 21877), (35, 21892), (37, 21904), (38, 21928), (45, 21982), (46, 21988), (52, 22036), (56, 22075), (59, 22102), (65, 22171), (66, 22195), (68, 22213), (74, 22264), (78, 22312), (86, 22351), (96, 22468), (99, 22480), (107, 22501), (123, 22537), (124, 22555), (128, 22588), (135, 22654), (141, 22696), (144, 22735), (145, 22753), (152, 22822), (153, 22846), (155, 22861), (156, 22870), (157, 22888), (161, 22918), (169, 22999), (173, 23023), (174, 23041), (175, 23044), (177, 23050), (181, 23080), (185, 23167), (228, 23299), (236, 23353), (240, 23380), (258, 23470), (260, 23482), (271, 23554), (274, 23572), (276, 23593), (277, 23599), (278, 23602), (280, 23626), (282, 23638), (283, 23647),

Gene: Music_23 Start: 20727, Stop: 22802, Start Num: 8
Candidate Starts for Music_23:
(Start: 8 @20727 has 4 MA's), (10, 20736), (26, 20880), (29, 20892), (60, 21144), (83, 21369), (87, 21387), (90, 21405), (122, 21672), (133, 21771), (140, 21813), (157, 21966), (161, 21996), (164, 22029), (168, 22074), (173, 22101), (175, 22122), (195, 22299), (206, 22353), (255, 22617),

Gene: NathanVaag_21 Start: 18498, Stop: 20567, Start Num: 9
Candidate Starts for NathanVaag_21:
(Start: 9 @18498 has 46 MA's), (11, 18513), (20, 18606), (22, 18618), (29, 18666), (34, 18693), (39, 18735), (40, 18738), (44, 18768), (45, 18792), (54, 18864), (55, 18867), (57, 18888), (60, 18918), (63, 18942), (66, 19005), (82, 19143), (84, 19149), (95, 19260), (102, 19314), (117, 19377), (139, 19542), (157, 19740), (161, 19770), (163, 19794), (164, 19803), (169, 19851), (170, 19866), (176, 19899), (199, 20115), (201, 20157), (240, 20289), (250, 20346), (251, 20352), (262, 20400), (264, 20406), (274, 20481), (279, 20526),

Gene: Nostromo_22 Start: 18733, Stop: 20739, Start Num: 9
Candidate Starts for Nostromo_22:
(7, 18694), (Start: 9 @18733 has 46 MA's), (12, 18754), (29, 18898), (39, 18967), (41, 18976), (47, 19039), (57, 19120), (60, 19150), (69, 19258), (112, 19627), (122, 19651), (125, 19690), (129, 19714), (152, 19858), (154, 19888), (157, 19924), (161, 19954), (169, 20035), (173, 20059), (175, 20080), (178, 20089), (182, 20134), (194, 20236), (208, 20269), (214, 20332), (219, 20350), (224, 20371), (262, 20572), (275, 20668),

Gene: Piccoletto_21 Start: 18497, Stop: 20566, Start Num: 9
Candidate Starts for Piccoletto_21:
(3, 18413), (Start: 9 @18497 has 46 MA's), (11, 18512), (20, 18605), (29, 18665), (34, 18692), (39, 18734), (40, 18737), (44, 18767), (45, 18791), (54, 18863), (57, 18887), (60, 18917), (63, 18941), (66, 19004), (82, 19142), (84, 19148), (95, 19259), (102, 19313), (117, 19376), (139, 19541), (157, 19739), (161, 19769), (164, 19802), (169, 19850), (170, 19865), (176, 19898), (199, 20114), (201, 20156), (240, 20288), (250, 20345), (251, 20351), (262, 20399), (264, 20405), (274, 20480), (279, 20525),

Gene: Pippa_23 Start: 18865, Stop: 20934, Start Num: 9
Candidate Starts for Pippa_23:
(Start: 9 @18865 has 46 MA's), (20, 18973), (22, 18985), (29, 19033), (39, 19102), (50, 19198), (57, 19255), (60, 19285), (66, 19372), (69, 19393), (84, 19516), (102, 19681), (117, 19744), (132, 19852), (137, 19906), (139, 19909), (150, 20029), (157, 20107), (161, 20137), (164, 20170), (169, 20218), (170, 20233), (176, 20266), (197, 20449), (198, 20461), (201, 20524), (226, 20569), (240, 20656), (246, 20692), (250, 20713), (262, 20767), (267, 20803), (269, 20809), (274, 20848), (279, 20893),

Gene: PrincessTrina_26 Start: 21688, Stop: 23658, Start Num: 9
Candidate Starts for PrincessTrina_26:
(4, 21634), (6, 21646), (Start: 9 @21688 has 46 MA's), (15, 21751), (19, 21799), (22, 21814), (27, 21850), (31, 21871), (33, 21877), (35, 21892), (37, 21904), (38, 21928), (45, 21982), (46, 21988), (52, 22036), (56, 22075), (59, 22102), (65, 22171), (66, 22195), (68, 22213), (74, 22264), (78, 22312), (86, 22351), (96, 22468), (99, 22480), (107, 22501), (123, 22537), (124, 22555), (128, 22588), (135, 22654), (141, 22696), (144, 22735), (145, 22753), (152, 22822), (153, 22846), (155, 22861), (156, 22870), (157, 22888), (161, 22918), (169, 22999), (173, 23023), (174, 23041), (175, 23044), (177, 23050), (181, 23080), (185, 23167), (228, 23299), (236, 23353), (240, 23380), (258, 23470), (260, 23482), (271, 23554), (274, 23572), (276, 23593), (277, 23599), (278, 23602), (280, 23626), (282, 23638), (283, 23647),

Gene: RosiePosie_26 Start: 21688, Stop: 23658, Start Num: 9
Candidate Starts for RosiePosie_26:

(4, 21634), (6, 21646), (Start: 9 @21688 has 46 MA's), (15, 21751), (19, 21799), (22, 21814), (27, 21850), (31, 21871), (33, 21877), (35, 21892), (37, 21904), (38, 21928), (45, 21982), (46, 21988), (52, 22036), (56, 22075), (59, 22102), (65, 22171), (66, 22195), (68, 22213), (74, 22264), (78, 22312), (86, 22351), (96, 22468), (99, 22480), (107, 22501), (123, 22537), (124, 22555), (128, 22588), (135, 22654), (141, 22696), (144, 22735), (145, 22753), (152, 22822), (153, 22846), (155, 22861), (156, 22870), (157, 22888), (161, 22918), (169, 22999), (173, 23023), (174, 23041), (175, 23044), (177, 23050), (181, 23080), (185, 23167), (228, 23299), (236, 23353), (240, 23380), (258, 23470), (260, 23482), (271, 23554), (274, 23572), (276, 23593), (277, 23599), (278, 23602), (280, 23626), (282, 23638), (283, 23647),

Gene: Scavito_26 Start: 21685, Stop: 23655, Start Num: 9
Candidate Starts for Scavito_26:
(4, 21631), (6, 21643), (Start: 9 @21685 has 46 MA's), (15, 21748), (19, 21796), (22, 21811), (27, 21847), (31, 21868), (33, 21874), (35, 21889), (38, 21925), (45, 21979), (46, 21985), (52, 22033), (56, 22072), (59, 22099), (65, 22168), (66, 22192), (68, 22210), (74, 22261), (78, 22309), (86, 22348), (96, 22465), (99, 22477), (107, 22498), (123, 22534), (124, 22552), (128, 22585), (135, 22651), (141, 22693), (144, 22732), (145, 22750), (152, 22819), (153, 22843), (155, 22858), (156, 22867), (157, 22885), (161, 22915), (169, 22996), (173, 23020), (174, 23038), (175, 23041), (177, 23047), (181, 23077), (185, 23164), (228, 23296), (236, 23350), (240, 23377), (258, 23467), (260, 23479), (271, 23551), (274, 23569), (276, 23590), (277, 23596), (278, 23599), (280, 23623), (282, 23635), (283, 23644),

Gene: Shade_23 Start: 18805, Stop: 20874, Start Num: 9
Candidate Starts for Shade_23:
(Start: 9 @18805 has 46 MA's), (20, 18913), (22, 18925), (29, 18973), (39, 19042), (45, 19099), (50, 19138), (54, 19171), (57, 19195), (60, 19225), (62, 19240), (66, 19312), (84, 19456), (102, 19621), (111, 19660), (116, 19678), (117, 19684), (119, 19687), (137, 19846), (139, 19849), (150, 19969), (157, 20047), (161, 20077), (164, 20110), (169, 20158), (170, 20173), (176, 20206), (197, 20389), (198, 20401), (201, 20464), (226, 20509), (240, 20596), (246, 20632), (250, 20653), (262, 20707), (267, 20743), (269, 20749), (274, 20788), (279, 20833),

Gene: Sicarius2_24 Start: 19283, Stop: 21313, Start Num: 9
Candidate Starts for Sicarius2_24:
(3, 19202), (Start: 9 @19283 has 46 MA's), (22, 19400), (29, 19451), (36, 19484), (39, 19520), (45, 19577), (50, 19616), (57, 19673), (60, 19703), (63, 19727), (68, 19808), (87, 19946), (89, 19949), (122, 20159), (126, 20201), (129, 20222), (134, 20261), (154, 20417), (157, 20453), (161, 20483), (169, 20564), (171, 20582), (175, 20609), (183, 20675), (188, 20744), (212, 20897), (222, 20966), (244, 21077), (247, 21089), (252, 21110), (266, 21170), (272, 21212), (275, 21242),

Gene: Sonny_23 Start: 18826, Stop: 20895, Start Num: 9
Candidate Starts for Sonny_23:
(Start: 9 @18826 has 46 MA's), (20, 18934), (22, 18946), (29, 18994), (39, 19063), (45, 19120), (50, 19159), (54, 19192), (57, 19216), (60, 19246), (62, 19261), (66, 19333), (84, 19477), (102, 19642), (111, 19681), (116, 19699), (117, 19705), (119, 19708), (137, 19867), (139, 19870), (150, 19990), (157, 20068), (161, 20098), (164, 20131), (169, 20179), (170, 20194), (176, 20227), (197, 20410), (198, 20422), (201, 20485), (226, 20530), (240, 20617), (246, 20653), (250, 20674), (262, 20728), (267, 20764), (269, 20770), (274, 20809), (279, 20854),

Gene: StevieBAY_23 Start: 18795, Stop: 20909, Start Num: 9
Candidate Starts for StevieBAY_23:
(Start: 9 @18795 has 46 MA's), (20, 18906), (22, 18918), (39, 19035), (42, 19047), (45, 19092), (50, 19131), (57, 19188), (60, 19218), (83, 19446), (95, 19557), (102, 19611), (104, 19629), (137, 19857), (150, 19980), (154, 20022), (157, 20058), (161, 20088), (164, 20121), (169, 20169), (175, 20214),

(198, 20412), (215, 20502), (220, 20520), (229, 20559), (240, 20634), (246, 20670), (250, 20691), (269, 20787), (274, 20826),

Gene: TaeYoung_23 Start: 18830, Stop: 20899, Start Num: 9
Candidate Starts for TaeYoung_23:
(Start: 9 @18830 has 46 MA's), (20, 18938), (22, 18950), (29, 18998), (39, 19067), (45, 19124), (50, 19163), (54, 19196), (57, 19220), (60, 19250), (66, 19337), (84, 19481), (102, 19646), (132, 19817), (137, 19871), (139, 19874), (150, 19994), (157, 20072), (161, 20102), (164, 20135), (169, 20183), (170, 20198), (176, 20231), (197, 20414), (198, 20426), (201, 20489), (226, 20534), (240, 20621), (246, 20657), (250, 20678), (262, 20732), (267, 20768), (269, 20774), (274, 20813), (279, 20858),

Gene: Timinator_23 Start: 18795, Stop: 20909, Start Num: 9
Candidate Starts for Timinator_23:
(Start: 9 @18795 has 46 MA's), (20, 18906), (22, 18918), (39, 19035), (45, 19092), (50, 19131), (57, 19188), (60, 19218), (83, 19446), (95, 19557), (102, 19611), (104, 19629), (137, 19857), (150, 19980), (154, 20022), (157, 20058), (161, 20088), (164, 20121), (169, 20169), (175, 20214), (198, 20412), (215, 20502), (220, 20520), (229, 20559), (240, 20634), (246, 20670), (250, 20691), (269, 20787), (274, 20826),

Gene: Tophat_26 Start: 21687, Stop: 23657, Start Num: 9
Candidate Starts for Tophat_26:
(4, 21633), (6, 21645), (Start: 9 @21687 has 46 MA's), (15, 21750), (19, 21798), (22, 21813), (27, 21849), (31, 21870), (33, 21876), (35, 21891), (38, 21927), (45, 21981), (46, 21987), (52, 22035), (56, 22074), (59, 22101), (65, 22170), (66, 22194), (68, 22212), (74, 22263), (78, 22311), (86, 22350), (96, 22467), (99, 22479), (107, 22500), (123, 22536), (124, 22554), (128, 22587), (135, 22653), (141, 22695), (144, 22734), (145, 22752), (152, 22821), (153, 22845), (155, 22860), (156, 22869), (157, 22887), (161, 22917), (169, 22998), (173, 23022), (174, 23040), (175, 23043), (177, 23049), (181, 23079), (185, 23166), (228, 23298), (236, 23352), (240, 23379), (258, 23469), (260, 23481), (271, 23553), (274, 23571), (276, 23592), (277, 23598), (278, 23601), (280, 23625), (282, 23637), (283, 23646),

Gene: Vibaki_23 Start: 20740, Stop: 22815, Start Num: 8
Candidate Starts for Vibaki_23:
(Start: 8 @20740 has 4 MA's), (26, 20893), (29, 20905), (60, 21157), (83, 21382), (87, 21400), (90, 21418), (122, 21685), (133, 21784), (140, 21826), (157, 21979), (161, 22009), (164, 22042), (168, 22087), (173, 22114), (175, 22135), (177, 22141), (195, 22312), (206, 22366), (255, 22630),

Gene: Wyborn_24 Start: 19141, Stop: 21291, Start Num: 9
Candidate Starts for Wyborn_24:
(3, 19060), (Start: 9 @19141 has 46 MA's), (22, 19258), (29, 19309), (36, 19342), (39, 19378), (45, 19435), (57, 19531), (60, 19561), (63, 19585), (68, 19666), (87, 19804), (89, 19807), (103, 19975), (107, 19993), (122, 20044), (126, 20086), (129, 20107), (134, 20146), (136, 20158), (152, 20272), (154, 20302), (157, 20338), (161, 20368), (169, 20449), (216, 20839), (238, 20947), (248, 21016), (257, 21052), (263, 21082), (278, 21187), (286, 21250),

Gene: Zartrosa_23 Start: 18829, Stop: 20898, Start Num: 9
Candidate Starts for Zartrosa_23:
(Start: 9 @18829 has 46 MA's), (20, 18937), (22, 18949), (29, 18997), (39, 19066), (45, 19123), (50, 19162), (54, 19195), (57, 19219), (60, 19249), (62, 19264), (66, 19336), (84, 19480), (102, 19645), (111, 19684), (116, 19702), (117, 19708), (119, 19711), (137, 19870), (139, 19873), (150, 19993), (157, 20071), (161, 20101), (164, 20134), (169, 20182), (170, 20197), (176, 20230), (197, 20413), (198, 20425), (201, 20488), (226, 20533), (240, 20620), (246, 20656), (250, 20677), (262, 20731), (267, 20767), (269, 20773), (274, 20812), (279, 20857),