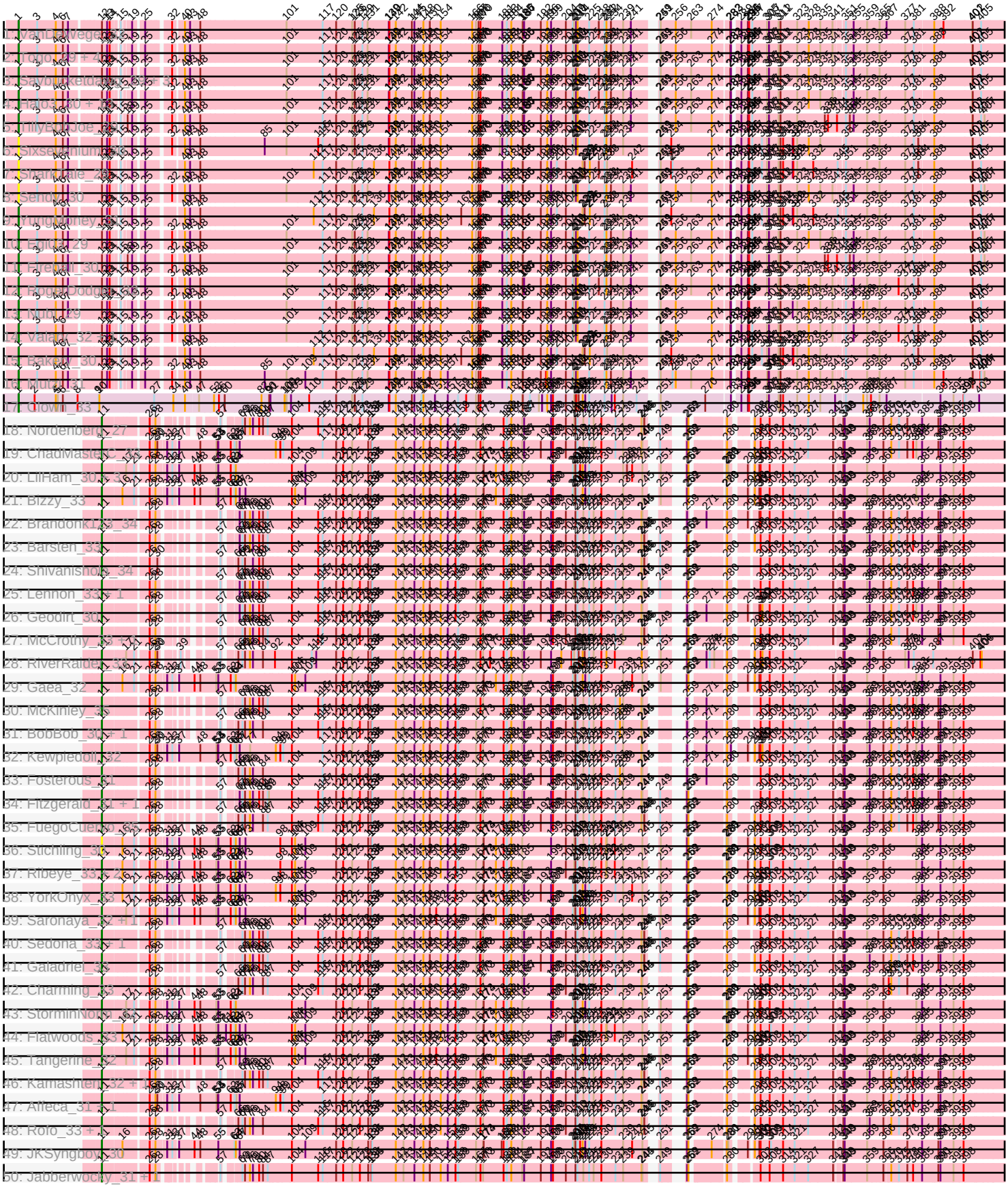
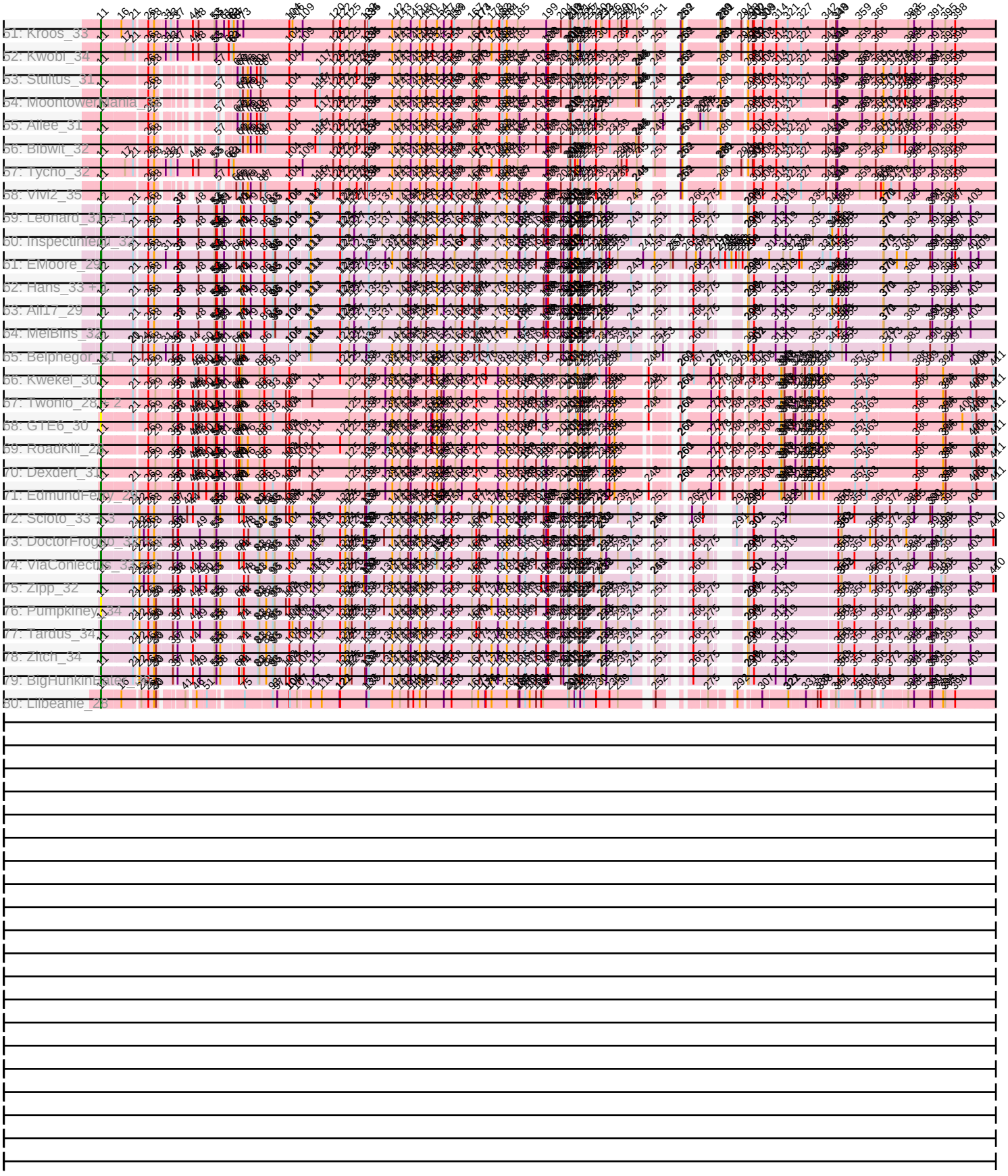
Zoomed Pham 347389



Zoomed Pham 347389



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 347389 Report

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

Pham number 347389 has 126 members, 10 are drafts.

Phages represented in each track:
• Track 1 : VanDeWege_32
• Track 2 : Togo_29, Portcullis_29, JohnPork_29, SmokingBunny_29, Shinji_29
• Track 3 : Savbucketdawg_29, Jambalaya_29, PinkCoffee_31, CoveyB_31
• Track 4 : Halo3_30, ClamChowder_31, Gezellig_29, PullumCavea_29, KimmyK_31, Fugax_31, Barb_31, Salvador_29, Phlop_29, Evamon_29, Wizard_29, Twister6_31, Arri_32, Danyall_31
• Track 5 : TillyBobJoe_29
• Track 6 : Sixsevenium_30
• Track 7 : SharkTale_29
• Track 8 : Sendy_30
• Track 9 : YungMoney_31
• Track 10 : Egi03_29
• Track 11 : Fireball_30
• Track 12 : RogerDodger_32
• Track 13 : Nubi_29
• Track 14 : Valary_32, CherryCola_32
• Track 15 : Bakery_30
• Track 16 : Mutzi_31
• Track 17 : Clown_33
• Track 18 : Nordenberg_27
• Track 19 : ChadMasterC_33
• Track 20 : LilHam_30, SchottB_31, Ashertheman_33, Baumdotcom_32
• Track 21 : Bizzy_33
• Track 22 : Brandonk123_34
• Track 23 : Barsten_33
• Track 24 : Shivanishola_34
• Track 25 : Lennon_33, Sitar_33
• Track 26 : Geodirt_30
• Track 27 : McCrothy_33, Love_36
• Track 28 : RiverRaider_33
• Track 29 : Gaea_32
• Track 30 : McKinley_35
• Track 31 : BobBob_30, Tangent_33
• Track 32 : Kewpiedoll_32
• Track 33 : Fosterous_31
• Track 34 : Fitzgerald_31, Brawn1_29
• Track 35 : FuegoCuervo_35

• Track 36 : Stichling_30
• Track 37 : Ribeye_33, Derg_28, Baddon_32
• Track 38 : YorkOnyx_33
• Track 39 : Saronaya_32, Gustavo_32
• Track 40 : Sedona_33, Keitabear_33
• Track 41 : Galadriel_33
• Track 42 : Charming_33
• Track 43 : StorminNorm_32
• Track 44 : Flatwoods_33
• Track 45 : Tangerine_32
• Track 46 : Kamashten_32, Thing3_32
• Track 47 : Affeca_31, Angelicage_31
• Track 48 : Rofo_33, Paries_35
• Track 49 : JKSyngboy_30
• Track 50 : Jabberwocky_31, Sanjuju_31
• Track 51 : Kroos_33
• Track 52 : Kwobi_34
• Track 53 : Stultus_31
• Track 54 : MoontowerMania_32
• Track 55 : Ailee_31
• Track 56 : Bibwit_32
• Track 57 : Tycho_32
• Track 58 : Vivi2_35
• Track 59 : Leonard_31, Phinally_31
• Track 60 : Inspectinfecti_32
• Track 61 : EMoore_29
• Track 62 : Hans_33, Phauci_24
• Track 63 : Ali17_29
• Track 64 : MelBins_32
• Track 65 : Belphegor_31
• Track 66 : Kwekel_30
• Track 67 : Twonlo_28, Chickadee_30, Tiamoceli_31
• Track 68 : GTE6_30
• Track 69 : RoadKill_28
• Track 70 : Dexdert_31
• Track 71 : EdmundFerry_29
• Track 72 : Scioto_33, Natkenzie_33, Abblin_33, Sampson_33
• Track 73 : DoctorFroggo_32, Verity_32, Delrey21_32
• Track 74 : ViaConlectus_33, APunk_34
• Track 75 : Zipp_32
• Track 76 : Pumpkiney_34
• Track 77 : Tardus_34
• Track 78 : Zitch_34
• Track 79 : BigHunkinEater_36
• Track 80 : Lilbeanie_28

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

The start number called the most often in the published annotations is 11, it was called in 74 of the 116 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• APunk_34, Abblin_33, Affeca_31, Ailee_31, Angelicage_31, Ashertheman_33, Baddon_32, Barsten_33, Baumdotcom_32, Bibwit_32, BigHunkinEater_36, Bizzy_33, BobBob_30, Brandonk123_34, Brawn1_29, ChadMasterC_33, Charming_33, Chickadee_30, Delrey21_32, Derg_28, Dexdert_31, DoctorFroggo_32, EdmundFerry_29, Fitzgerald_31, Flatwoods_33, Fosterous_31, FuegoCuervo_35, GTE6_30, Gaea_32, Galadriel_33, Geodirt_30, Gustavo_32, JKSyngboy_30, Jabberwocky_31, Kamashten_32, Keitabear_33, Kewpiedoll_32, Kroos_33, Kwekel_30, Kwobi_34, Lennon_33, LilHam_30, Lilbeanie_28, Love_36, McCrothy_33, McKinley_35, MoontowerMania_32, Natkenzie_33, Nordenberg_27, Paries_35, Pumpkiney_34, Ribeye_33, RiverRaider_33, RoadKill_28, Rofo_33, Sampson_33, Sanjuju_31, Saronaya_32, SchottB_31, Scioto_33, Sedona_33, Shivanishola_34, Sitar_33, Stichling_30, StorminNorm_32, Stultus_31, Tangent_33, Tangerine_32, Tardus_34, Thing3_32, Tiamoceli_31, Twonlo_28, Tycho_32, Verity_32, ViaConlectus_33, Vivi2_35, YorkOnyx_33, Zipp_32, Zitch_34,

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

Genes that do not have the "Most Annotated" start:
• Ali17_29, Arri_32, Bakery_30, Barb_31, Belphegor_31, CherryCola_32, ClamChowder_31, Clown_33, CoveyB_31, Danyall_31, EMoore_29, Egi03_29, Evamon_29, Fireball_30, Fugax_31, Gezellig_29, Halo3_30, Hans_33, Inspectinfecti_32, Jambalaya_29, JohnPork_29, KimmyK_31, Leonard_31, MelBins_32, Mutzi_31, Nubi_29, Phauci_24, Phinally_31, Phlop_29, PinkCoffee_31, Portcullis_29, PullumCavea_29, RogerDodger_32, Salvador_29, Savbucketdawg_29, Sendy_30, SharkTale_29, Shinji_29, Sixsevenium_30, SmokingBunny_29, TillyBobJoe_29, Togo_29, Twister6_31, Valary_32, VanDeWege_32, Wizard_29, YungMoney_31,

Summary by start number:

Start 1:
• Found in 38 of 126 (30.2%) of genes in pham
• Manual Annotations of this start: 33 of 116
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arri_32 (DC1), Bakery_30 (DC1), Barb_31 (DC1), CherryCola_32 (DC1), ClamChowder_31 (DC1), Clown_33 (DC2), CoveyB_31 (DC1), Danyall_31 (DC1), Egi03_29 (DC1), Evamon_29 (DC1), Fireball_30 (DC1), Fugax_31 (DC1), Gezellig_29 (DC1), Halo3_30 (DC1), Jambalaya_29 (DC1), JohnPork_29 (DC1), KimmyK_31 (DC1), Mutzi_31 (DC1), Nubi_29 (DC1), Phlop_29 (DC1), PinkCoffee_31 (DC1), Portcullis_29 (DC1), PullumCavea_29 (DC1), RogerDodger_32 (DC1), Salvador_29 (DC1), Savbucketdawg_29 (DC1), Sendy_30 (DC1), SharkTale_29 (DC1), Shinji_29 (DC1), Sixsevenium_30 (DC1), SmokingBunny_29 (DC1), TillyBobJoe_29 (DC1), Togo_29 (DC1), Twister6_31 (DC1), Valary_32 (DC1), VanDeWege_32 (DC1), Wizard_29 (DC1), YungMoney_31 (DC1),

Start 11:
• Found in 79 of 126 (62.7%) of genes in pham
• Manual Annotations of this start: 74 of 116
• Called 100.0% of time when present

• Phage (with cluster) where this start called: APunk_34 (DE4), Abblin_33 (DE4), Affeca_31 (DE1), Ailee_31 (DE1), Angelicage_31 (DE1), Ashertheman_33 (DE1), Baddon_32 (DE1), Barsten_33 (DE1), Baumdotcom_32 (DE1), Bibwit_32 (DE1), BigHunkinEater_36 (DE4), Bizzy_33 (DE1), BobBob_30 (DE1), Brandonk123_34 (DE1), Brawn1_29 (DE1), ChadMasterC_33 (DE1), Charming_33 (DE1), Chickadee_30 (DE3), Delrey21_32 (DE4), Derg_28 (DE1), Dexdert_31 (DE3), DoctorFroggo_32 (DE4), EdmundFerry_29 (DE3), Fitzgerald_31 (DE1), Flatwoods_33 (DE1), Fosterous_31 (DE1), FuegoCuervo_35 (DE1), GTE6_30 (DE3), Gaea_32 (DE1), Galadriel_33 (DE1), Geodirt_30 (DE1), Gustavo_32 (DE1), JKSyngboy_30 (DE1), Jabberwocky_31 (DE1), Kamashten_32 (DE1), Keitabear_33 (DE1), Kewpiedoll_32 (DE1), Kroos_33 (DE1), Kwekel_30 (DE3), Kwobi_34 (DE1), Lennon_33 (DE1), LilHam_30 (DE1), Lilbeanie_28 (DE5), Love_36 (DE1), McCrothy_33 (DE1), McKinley_35 (DE1), MoontowerMania_32 (DE1), Natkenzie_33 (DE4), Nordenberg_27 (DE1), Paries_35 (DE1), Pumpkiney_34 (DE4), Ribeye_33 (DE1), RiverRaider_33 (DE1), RoadKill_28 (DE3), Rofo_33 (DE1), Sampson_33 (DE4), Sanjuju_31 (DE1), Saronaya_32 (DE1), SchottB_31 (DE1), Scioto_33 (DE4), Sedona_33 (DE1), Shivanishola_34 (DE1), Sitar_33 (DE1), Stichling_30 (DE1), StorminNorm_32 (DE1), Stultus_31 (DE1), Tangent_33 (DE1), Tangerine_32 (DE1), Tardus_34 (DE4), Thing3_32 (DE1), Tiamoceli_31 (DE3), Twonlo_28 (DE3), Tycho_32 (DE1), Verity_32 (DE4), ViaConlectus_33 (DE4), Vivi2_35 (DE1), YorkOnyx_33 (DE1), Zipp_32 (DE4), Zitch_34 (DE4),

Start 12:
• Found in 46 of 126 (36.5%) of genes in pham
• Manual Annotations of this start: 9 of 116
• Called 19.6% of time when present
• Phage (with cluster) where this start called: Ali17_29 (DE2), Belphegor_31 (DE2), EMoore_29 (DE2), Hans_33 (DE2), Inspectinfecti_32 (DE2), Leonard_31 (DE2), MelBins_32 (DE2), Phauci_24 (DE2), Phinally_31 (DE2),

Summary by clusters:

There are 7 clusters represented in this pham: DE1, DE2, DE3, DE4, DE5, DC2, DC1,

Info for manual annotations of cluster DC1:
•Start number 1 was manually annotated 32 times for cluster DC1.

Info for manual annotations of cluster DC2:
•Start number 1 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:
•Start number 11 was manually annotated 53 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 12 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:
•Start number 11 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 11 was manually annotated 13 times for cluster DE4.

Info for manual annotations of cluster DE5:

•Start number 11 was manually annotated 1 time for cluster DE5.

Gene Information:

Gene: APunk_34 Start: 24307, Stop: 29232, Start Num: 11
Candidate Starts for APunk_34:
(Start: 11 @24307 has 74 MA's), (21, 24427), (22, 24439), (26, 24481), (28, 24505), (36, 24571), (37, 24580), (44, 24652), (49, 24685), (53, 24754), (55, 24763), (58, 24781), (68, 24847), (71, 24862), (74, 24871), (81, 24934), (83, 24940), (88, 24967), (93, 24997), (95, 25006), (104, 25069), (106, 25081), (112, 25168), (115, 25180), (122, 25303), (124, 25327), (125, 25345), (126, 25357), (132, 25417), (133, 25423), (135, 25435), (142, 25546), (143, 25582), (144, 25621), (145, 25633), (148, 25675), (150, 25705), (153, 25747), (154, 25756), (155, 25759), (157, 25789), (158, 25822), (167, 25915), (170, 25936), (174, 25951), (181, 26038), (183, 26059), (184, 26080), (186, 26134), (189, 26167), (192, 26218), (199, 26266), (200, 26275), (204, 26335), (205, 26347), (207, 26368), (209, 26374), (221, 26416), (222, 26422), (224, 26437), (225, 26443), (232, 26524), (233, 26527), (235, 26548), (239, 26602), (243, 26665), (251, 26722), (266, 26809), (275, 26875), (298, 26932), (299, 26935), (302, 26959), (313, 27049), (319, 27097), (350, 27325), (353, 27343), (356, 27400), (366, 27490), (372, 27553), (383, 27634), (385, 27661), (390, 27733), (391, 27742), (395, 27802), (403, 27913), (416, 28141), (418, 28150), (421, 28177), (424, 28219), (426, 28279), (434, 28441), (435, 28468), (438, 28540), (439, 28579), (455, 28786), (460, 28858), (468, 28924), (483, 29059), (487, 29122), (488, 29125), (490, 29143), (492, 29158), (497, 29185), (499, 29197),

Gene: Abblin_33 Start: 24850, Stop: 29775, Start Num: 11
Candidate Starts for Abblin_33:
(Start: 11 @24850 has 74 MA's), (21, 24970), (22, 24982), (26, 25024), (28, 25048), (36, 25114), (37, 25123), (42, 25168), (44, 25195), (53, 25297), (55, 25306), (58, 25324), (68, 25390), (71, 25405), (74, 25414), (81, 25477), (83, 25483), (88, 25510), (93, 25540), (95, 25549), (102, 25597), (104, 25612), (106, 25624), (112, 25711), (115, 25723), (122, 25846), (124, 25870), (125, 25888), (132, 25960), (133, 25966), (135, 25978), (142, 26089), (143, 26125), (144, 26164), (145, 26176), (148, 26218), (150, 26248), (153, 26290), (154, 26299), (155, 26302), (157, 26332), (158, 26365), (167, 26458), (174, 26494), (178, 26551), (181, 26581), (184, 26623), (186, 26677), (187, 26683), (189, 26710), (192, 26761), (198, 26797), (199, 26809), (200, 26818), (204, 26878), (205, 26890), (207, 26911), (209, 26917), (221, 26959), (222, 26965), (224, 26980), (225, 26986), (228, 27031), (232, 27067), (233, 27070), (239, 27145), (243, 27208), (251, 27265), (265, 27346), (272, 27397), (291, 27454), (298, 27475), (299, 27478), (302, 27502), (319, 27640), (323, 27661), (350, 27868), (353, 27886), (356, 27943), (366, 28033), (372, 28096), (383, 28177), (385, 28204), (390, 28276), (391, 28285), (395, 28345), (403, 28456), (416, 28687), (418, 28696), (421, 28723), (424, 28765), (434, 28984), (435, 29011), (438, 29083), (439, 29122), (455, 29329), (460, 29401), (468, 29467), (483, 29602), (487, 29665), (488, 29668), (490, 29686), (492, 29701), (497, 29728), (499, 29740),

Gene: Affeca_31 Start: 24649, Stop: 29682, Start Num: 11
Candidate Starts for Affeca_31:
(Start: 11 @24649 has 74 MA's), (26, 24823), (28, 24847), (30, 24856), (31, 24889), (33, 24907), (37, 24922), (48, 25021), (53, 25096), (54, 25102), (55, 25105), (62, 25162), (63, 25180), (65, 25189), (67, 25204), (94, 25369), (98, 25387), (99, 25399), (104, 25438), (117, 25579), (120, 25639), (122, 25672), (125, 25714), (132, 25786), (134, 25801), (135, 25804), (142, 25915), (143, 25951), (145, 26002), (148, 26044), (150, 26074), (154, 26125), (157, 26158), (158, 26191), (159, 26203), (167, 26284), (170, 26305), (173, 26317), (182, 26413), (183, 26428), (184, 26449), (185, 26500), (187, 26509), (192, 26587), (199, 26635), (200, 26644), (204, 26704), (210, 26749), (213, 26758), (221, 26785), (225, 26812), (227, 26833), (230, 26869), (237, 26935), (239, 26971), (244, 27058), (245, 27061), (249, 27088), (259, 27139), (262, 27145), (280, 27271), (298, 27346), (302, 27373), (308, 27406),

(314, 27469), (321, 27523), (327, 27586), (342, 27697), (348, 27724), (349, 27730), (359, 27832), (366, 27898), (370, 27925), (375, 27952), (378, 27991), (380, 28015), (385, 28057), (390, 28129), (391, 28138), (395, 28198), (398, 28243), (418, 28558), (419, 28564), (420, 28582), (427, 28678), (431, 28783), (437, 28882), (449, 29026), (452, 29101), (454, 29113), (458, 29197), (494, 29536), (501, 29575), (502, 29581), (505, 29587), (509, 29614), (512, 29650), (514, 29662),

Gene: Ailee_31 Start: 25358, Stop: 30172, Start Num: 11
Candidate Starts for Ailee_31:
(Start: 11 @25358 has 74 MA's), (26, 25532), (28, 25556), (57, 25694), (67, 25733), (69, 25739), (72, 25751), (76, 25769), (79, 25781), (80, 25808), (84, 25826), (87, 25838), (104, 25937), (117, 26078), (120, 26138), (122, 26171), (125, 26213), (132, 26285), (134, 26300), (135, 26303), (142, 26414), (143, 26450), (145, 26501), (148, 26543), (150, 26573), (154, 26624), (157, 26657), (158, 26690), (159, 26702), (167, 26783), (170, 26804), (173, 26816), (182, 26912), (183, 26927), (184, 26948), (185, 26999), (187, 27008), (192, 27086), (199, 27134), (200, 27143), (209, 27242), (210, 27248), (212, 27254), (213, 27257), (225, 27311), (227, 27332), (229, 27362), (230, 27368), (233, 27395), (251, 27590), (253, 27623), (259, 27638), (262, 27644), (269, 27689), (271, 27698), (273, 27713), (275, 27731), (280, 27770), (281, 27776), (298, 27845), (302, 27872), (308, 27905), (314, 27968), (321, 28022), (348, 28223), (349, 28229), (359, 28331), (361, 28343), (366, 28397), (370, 28424), (375, 28451), (378, 28490), (383, 28529), (385, 28556), (390, 28628), (391, 28637), (395, 28697), (398, 28742), (418, 29057), (419, 29063), (420, 29081), (427, 29177), (431, 29282), (437, 29381), (449, 29525), (452, 29600), (454, 29612), (458, 29687), (494, 30026), (501, 30065), (502, 30071), (505, 30077), (509, 30104), (512, 30140), (514, 30152),

Gene: Ali17_29 Start: 22538, Stop: 27427, Start Num: 12
Candidate Starts for Ali17_29:
(Start: 12 @22538 has 9 MA's), (21, 22658), (26, 22712), (28, 22736), (37, 22811), (38, 22814), (48, 22910), (53, 22985), (54, 22991), (56, 22997), (59, 23021), (61, 23030), (70, 23090), (71, 23096), (74, 23105), (79, 23135), (86, 23192), (93, 23231), (95, 23240), (96, 23243), (104, 23303), (105, 23306), (111, 23381), (112, 23390), (122, 23525), (123, 23534), (125, 23567), (127, 23591), (135, 23657), (137, 23720), (143, 23804), (144, 23843), (145, 23855), (149, 23903), (150, 23927), (154, 23978), (157, 24011), (161, 24062), (164, 24092), (168, 24149), (171, 24161), (174, 24173), (179, 24248), (184, 24302), (186, 24356), (189, 24389), (198, 24476), (199, 24488), (200, 24497), (204, 24557), (205, 24569), (207, 24590), (209, 24596), (210, 24602), (211, 24605), (212, 24608), (220, 24635), (221, 24638), (223, 24647), (224, 24659), (225, 24665), (228, 24710), (232, 24746), (233, 24749), (235, 24770), (243, 24887), (251, 24944), (266, 25031), (275, 25097), (298, 25154), (299, 25157), (302, 25181), (313, 25271), (319, 25319), (335, 25448), (345, 25517), (346, 25526), (350, 25547), (353, 25565), (355, 25583), (370, 25739), (371, 25742), (383, 25847), (391, 25955), (395, 26015), (397, 26045), (403, 26126), (417, 26357), (418, 26363), (422, 26411), (423, 26426), (426, 26492), (432, 26624), (438, 26753), (439, 26792), (468, 27119), (475, 27215), (490, 27338), (497, 27380), (499, 27392),

Gene: Angelicage_31 Start: 25066, Stop: 30099, Start Num: 11
Candidate Starts for Angelicage_31:
(Start: 11 @25066 has 74 MA's), (26, 25240), (28, 25264), (30, 25273), (31, 25306), (33, 25324), (37, 25339), (48, 25438), (53, 25513), (54, 25519), (55, 25522), (62, 25579), (63, 25597), (65, 25606), (67, 25621), (94, 25786), (98, 25804), (99, 25816), (104, 25855), (117, 25996), (120, 26056), (122, 26089), (125, 26131), (132, 26203), (134, 26218), (135, 26221), (142, 26332), (143, 26368), (145, 26419), (148, 26461), (150, 26491), (154, 26542), (157, 26575), (158, 26608), (159, 26620), (167, 26701), (170, 26722), (173, 26734), (182, 26830), (183, 26845), (184, 26866), (185, 26917), (187, 26926), (192, 27004), (199, 27052), (200, 27061), (204, 27121), (210, 27166), (213, 27175), (221, 27202), (225, 27229), (227, 27250), (230, 27286), (237, 27352), (239, 27388), (244, 27475), (245, 27478), (249, 27505), (259, 27556), (262, 27562), (280, 27688), (298, 27763), (302, 27790), (308, 27823), (314, 27886), (321, 27940), (327, 28003), (342, 28114), (348, 28141), (349, 28147), (359, 28249),

(366, 28315), (370, 28342), (375, 28369), (378, 28408), (380, 28432), (385, 28474), (390, 28546), (391, 28555), (395, 28615), (398, 28660), (418, 28975), (419, 28981), (420, 28999), (427, 29095), (431, 29200), (437, 29299), (449, 29443), (452, 29518), (454, 29530), (458, 29614), (494, 29953), (501, 29992), (502, 29998), (505, 30004), (509, 30031), (512, 30067), (514, 30079),

Gene: Arri_32 Start: 20088, Stop: 25619, Start Num: 1
Candidate Starts for Arri_32:
(Start: 1 @20088 has 33 MA's), (3, 20175), (4, 20262), (6, 20295), (7, 20319), (Start: 12 @20442 has 9 MA's), (13, 20463), (14, 20469), (15, 20493), (19, 20523), (25, 20562), (32, 20646), (40, 20682), (43, 20706), (48, 20745), (101, 21135), (117, 21303), (120, 21363), (125, 21435), (126, 21447), (129, 21483), (131, 21507), (139, 21606), (140, 21609), (142, 21639), (144, 21714), (145, 21726), (148, 21768), (150, 21798), (154, 21849), (166, 21990), (167, 22008), (168, 22020), (170, 22029), (181, 22131), (183, 22152), (184, 22173), (185, 22224), (186, 22227), (187, 22233), (192, 22311), (196, 22341), (199, 22359), (204, 22428), (207, 22461), (209, 22467), (211, 22476), (214, 22482), (225, 22536), (228, 22581), (231, 22608), (232, 22617), (234, 22638), (239, 22695), (241, 22731), (249, 22812), (251, 22815), (256, 22884), (263, 22956), (274, 23052), (282, 23118), (283, 23121), (289, 23145), (294, 23172), (295, 23175), (296, 23178), (297, 23184), (305, 23253), (307, 23262), (311, 23307), (312, 23316), (323, 23394), (328, 23448), (335, 23502), (341, 23559), (351, 23601), (355, 23637), (359, 23700), (365, 23751), (377, 23862), (381, 23901), (388, 23982), (401, 24156), (402, 24159), (405, 24192), (416, 24399), (418, 24408), (419, 24414), (435, 24726), (448, 24933), (454, 25071), (465, 25221), (472, 25332), (481, 25377), (482, 25386), (483, 25392), (486, 25428), (498, 25521), (501, 25533), (508, 25563), (510, 25596), (513, 25608),

Gene: Ashertheman_33 Start: 23943, Stop: 28961, Start Num: 11
Candidate Starts for Ashertheman_33:
(Start: 11 @23943 has 74 MA's), (17, 24030), (21, 24063), (26, 24117), (28, 24141), (31, 24183), (33, 24201), (37, 24216), (44, 24288), (48, 24315), (53, 24390), (55, 24399), (62, 24456), (63, 24474), (64, 24480), (104, 24732), (109, 24792), (120, 24933), (122, 24966), (125, 25008), (132, 25080), (134, 25095), (135, 25098), (142, 25209), (143, 25245), (145, 25296), (148, 25338), (150, 25368), (154, 25419), (157, 25452), (158, 25485), (159, 25497), (167, 25578), (173, 25611), (174, 25614), (178, 25671), (182, 25707), (183, 25722), (184, 25743), (185, 25794), (199, 25929), (200, 25938), (207, 26031), (209, 26037), (210, 26043), (213, 26052), (218, 26064), (220, 26076), (223, 26088), (225, 26106), (230, 26163), (239, 26265), (240, 26283), (242, 26307), (245, 26355), (251, 26385), (259, 26433), (262, 26439), (279, 26562), (280, 26565), (281, 26571), (294, 26628), (298, 26640), (300, 26661), (302, 26667), (308, 26700), (314, 26763), (321, 26817), (342, 26991), (348, 27018), (349, 27024), (359, 27126), (366, 27192), (385, 27351), (391, 27432), (395, 27492), (398, 27537), (416, 27843), (418, 27852), (421, 27879), (425, 27948), (431, 28077), (437, 28176), (449, 28320), (452, 28392), (453, 28398), (454, 28404), (458, 28479), (461, 28509), (472, 28647), (483, 28707), (486, 28743), (489, 28788), (494, 28815), (501, 28854), (502, 28860), (505, 28866), (509, 28893), (512, 28929), (514, 28941),

Gene: Baddon_32 Start: 24743, Stop: 29758, Start Num: 11
Candidate Starts for Baddon_32:
(Start: 11 @24743 has 74 MA's), (16, 24818), (21, 24863), (26, 24917), (28, 24941), (31, 24983), (33, 25001), (37, 25016), (44, 25088), (48, 25115), (53, 25190), (55, 25199), (62, 25256), (63, 25274), (64, 25280), (67, 25298), (73, 25325), (98, 25481), (104, 25532), (106, 25544), (109, 25592), (120, 25733), (122, 25766), (125, 25808), (132, 25880), (134, 25895), (135, 25898), (142, 26009), (143, 26045), (145, 26096), (148, 26138), (150, 26168), (154, 26219), (157, 26252), (158, 26285), (159, 26297), (167, 26378), (173, 26411), (174, 26414), (178, 26471), (182, 26507), (183, 26522), (184, 26543), (185, 26594), (199, 26729), (204, 26798), (209, 26837), (210, 26843), (213, 26852), (221, 26879), (225, 26906), (227, 26927), (230, 26963), (232, 26987), (233, 26990), (236, 27026), (239, 27065), (245, 27155), (251, 27185), (259, 27233), (262, 27239), (279, 27362), (280, 27365), (281, 27371), (294, 27428), (298, 27440), (302, 27467), (308, 27500), (309, 27506), (314, 27563), (321, 27617),

(327, 27680), (342, 27791), (348, 27818), (349, 27824), (359, 27926), (366, 27992), (383, 28124), (385, 28151), (391, 28232), (395, 28292), (398, 28337), (416, 28643), (418, 28652), (421, 28679), (425, 28748), (437, 28976), (449, 29120), (452, 29189), (453, 29195), (454, 29201), (458, 29276), (461, 29306), (472, 29444), (483, 29504), (486, 29540), (489, 29585), (494, 29612), (501, 29651), (502, 29657), (505, 29663), (509, 29690), (512, 29726), (514, 29738),

Gene: Bakery_30 Start: 19326, Stop: 24842, Start Num: 1
Candidate Starts for Bakery_30:
(Start: 1 @19326 has 33 MA's), (4, 19500), (6, 19533), (7, 19557), (Start: 12 @19680 has 9 MA's), (13, 19701), (14, 19707), (15, 19731), (19, 19761), (25, 19800), (40, 19920), (43, 19944), (48, 19983), (112, 20499), (117, 20541), (120, 20601), (125, 20673), (129, 20721), (136, 20775), (140, 20847), (142, 20877), (144, 20952), (145, 20964), (148, 21006), (150, 21036), (154, 21087), (162, 21180), (166, 21228), (167, 21246), (168, 21258), (170, 21267), (180, 21366), (181, 21369), (183, 21390), (184, 21411), (185, 21462), (186, 21465), (192, 21549), (196, 21579), (199, 21597), (201, 21624), (204, 21666), (220, 21744), (221, 21747), (222, 21753), (225, 21774), (226, 21777), (231, 21846), (233, 21858), (239, 21933), (249, 22050), (251, 22053), (254, 22101), (274, 22290), (282, 22356), (283, 22359), (289, 22383), (295, 22413), (296, 22416), (297, 22422), (303, 22467), (305, 22491), (307, 22500), (311, 22545), (312, 22554), (314, 22566), (319, 22611), (320, 22614), (323, 22632), (328, 22686), (335, 22740), (351, 22839), (359, 22938), (365, 22989), (377, 23100), (381, 23139), (384, 23160), (388, 23220), (401, 23394), (402, 23397), (405, 23430), (416, 23640), (419, 23655), (448, 24165), (451, 24261), (454, 24294), (464, 24441), (465, 24444), (472, 24555), (482, 24609), (486, 24651), (498, 24744), (501, 24756), (508, 24786), (510, 24819), (513, 24831),

Gene: Barb_31 Start: 20106, Stop: 25637, Start Num: 1
Candidate Starts for Barb_31:
(Start: 1 @20106 has 33 MA's), (3, 20193), (4, 20280), (6, 20313), (7, 20337), (Start: 12 @20460 has 9 MA's), (13, 20481), (14, 20487), (15, 20511), (19, 20541), (25, 20580), (32, 20664), (40, 20700), (43, 20724), (48, 20763), (101, 21153), (117, 21321), (120, 21381), (125, 21453), (126, 21465), (129, 21501), (131, 21525), (139, 21624), (140, 21627), (142, 21657), (144, 21732), (145, 21744), (148, 21786), (150, 21816), (154, 21867), (166, 22008), (167, 22026), (168, 22038), (170, 22047), (181, 22149), (183, 22170), (184, 22191), (185, 22242), (186, 22245), (187, 22251), (192, 22329), (196, 22359), (199, 22377), (204, 22446), (207, 22479), (209, 22485), (211, 22494), (214, 22500), (225, 22554), (228, 22599), (231, 22626), (232, 22635), (234, 22656), (239, 22713), (241, 22749), (249, 22830), (251, 22833), (256, 22902), (263, 22974), (274, 23070), (282, 23136), (283, 23139), (289, 23163), (294, 23190), (295, 23193), (296, 23196), (297, 23202), (305, 23271), (307, 23280), (311, 23325), (312, 23334), (323, 23412), (328, 23466), (335, 23520), (341, 23577), (351, 23619), (355, 23655), (359, 23718), (365, 23769), (377, 23880), (381, 23919), (388, 24000), (401, 24174), (402, 24177), (405, 24210), (416, 24417), (418, 24426), (419, 24432), (435, 24744), (448, 24951), (454, 25089), (465, 25239), (472, 25350), (481, 25395), (482, 25404), (483, 25410), (486, 25446), (498, 25539), (501, 25551), (508, 25581), (510, 25614), (513, 25626),

Gene: Barsten_33 Start: 24490, Stop: 29313, Start Num: 11
Candidate Starts for Barsten_33:
(Start: 11 @24490 has 74 MA's), (26, 24664), (28, 24688), (57, 24826), (67, 24865), (69, 24871), (72, 24883), (76, 24901), (79, 24913), (80, 24940), (84, 24958), (87, 24970), (104, 25069), (116, 25189), (117, 25210), (120, 25270), (122, 25303), (125, 25345), (128, 25381), (132, 25417), (134, 25432), (135, 25435), (142, 25546), (143, 25582), (145, 25633), (148, 25675), (150, 25705), (154, 25756), (157, 25789), (158, 25822), (159, 25834), (167, 25915), (170, 25936), (173, 25948), (182, 26044), (183, 26059), (184, 26080), (185, 26131), (187, 26140), (192, 26218), (199, 26266), (200, 26275), (204, 26335), (210, 26380), (213, 26389), (221, 26416), (225, 26443), (227, 26464), (230, 26500), (237, 26566), (239, 26602), (244, 26689), (245, 26692), (246, 26701), (249, 26719), (259, 26770), (262, 26776), (280, 26902), (298, 26977), (302, 27004), (308, 27037), (314, 27100), (321, 27154), (327, 27217), (342, 27328), (348, 27355), (349, 27361), (359, 27463), (361, 27475), (366, 27529),

(370, 27556), (375, 27583), (378, 27622), (380, 27646), (385, 27688), (390, 27760), (391, 27769), (395, 27829), (398, 27874), (418, 28189), (419, 28195), (420, 28213), (427, 28309), (431, 28414), (437, 28513), (449, 28657), (452, 28732), (454, 28744), (458, 28828), (494, 29167), (501, 29206), (502, 29212), (505, 29218), (509, 29245), (512, 29281), (514, 29293),

Gene: Baumdotcom_32 Start: 23558, Stop: 28582, Start Num: 11
Candidate Starts for Baumdotcom_32:
(Start: 11 @23558 has 74 MA's), (17, 23645), (21, 23678), (26, 23732), (28, 23756), (31, 23798), (33, 23816), (37, 23831), (44, 23903), (48, 23930), (53, 24005), (55, 24014), (62, 24071), (63, 24089), (64, 24095), (104, 24347), (109, 24407), (120, 24548), (122, 24581), (125, 24623), (132, 24695), (134, 24710), (135, 24713), (142, 24824), (143, 24860), (145, 24911), (148, 24953), (150, 24983), (154, 25034), (157, 25067), (158, 25100), (159, 25112), (167, 25193), (173, 25226), (174, 25229), (178, 25286), (182, 25322), (183, 25337), (184, 25358), (185, 25409), (199, 25544), (200, 25553), (207, 25646), (209, 25652), (210, 25658), (213, 25667), (218, 25679), (220, 25691), (223, 25703), (225, 25721), (230, 25778), (239, 25880), (240, 25898), (242, 25922), (245, 25970), (251, 26000), (259, 26048), (262, 26054), (279, 26177), (280, 26180), (281, 26186), (294, 26243), (298, 26255), (300, 26276), (302, 26282), (308, 26315), (314, 26378), (321, 26432), (342, 26606), (348, 26633), (349, 26639), (359, 26741), (366, 26807), (385, 26966), (391, 27047), (395, 27107), (398, 27152), (416, 27464), (418, 27473), (421, 27500), (425, 27569), (431, 27698), (437, 27797), (449, 27941), (452, 28013), (453, 28019), (454, 28025), (458, 28100), (461, 28130), (472, 28268), (483, 28328), (486, 28364), (489, 28409), (494, 28436), (501, 28475), (502, 28481), (505, 28487), (509, 28514), (512, 28550), (514, 28562),

Gene: Belphegor_31 Start: 24145, Stop: 29028, Start Num: 12
Candidate Starts for Belphegor_31:
(Start: 12 @24145 has 9 MA's), (20, 24262), (21, 24265), (24, 24292), (26, 24319), (28, 24343), (31, 24385), (36, 24409), (37, 24418), (38, 24421), (44, 24490), (50, 24553), (53, 24592), (54, 24598), (56, 24604), (61, 24637), (66, 24679), (70, 24697), (71, 24703), (74, 24712), (86, 24799), (104, 24910), (105, 24913), (111, 24988), (112, 24997), (113, 25000), (122, 25132), (125, 25174), (127, 25198), (133, 25252), (135, 25264), (142, 25375), (143, 25411), (144, 25450), (145, 25462), (149, 25510), (150, 25534), (154, 25585), (157, 25618), (161, 25669), (164, 25699), (168, 25756), (171, 25768), (174, 25780), (177, 25819), (179, 25855), (185, 25960), (189, 25996), (192, 26047), (200, 26104), (204, 26164), (205, 26176), (209, 26203), (210, 26209), (211, 26212), (212, 26215), (220, 26242), (221, 26245), (224, 26266), (225, 26272), (231, 26344), (235, 26377), (239, 26431), (243, 26494), (251, 26551), (253, 26584), (266, 26638), (298, 26761), (301, 26785), (302, 26788), (313, 26878), (319, 26926), (335, 27055), (345, 27124), (353, 27172), (355, 27190), (370, 27346), (373, 27376), (383, 27454), (390, 27553), (395, 27622), (397, 27652), (416, 27961), (417, 27964), (418, 27970), (423, 28033), (426, 28099), (432, 28231), (438, 28360), (439, 28399), (468, 28720), (473, 28804), (497, 28981), (499, 28993),

Gene: Bibwit_32 Start: 24677, Stop: 29500, Start Num: 11
Candidate Starts for Bibwit_32:
(Start: 11 @24677 has 74 MA's), (26, 24851), (28, 24875), (57, 25013), (69, 25058), (72, 25070), (76, 25088), (79, 25100), (80, 25127), (84, 25145), (87, 25157), (104, 25256), (116, 25376), (117, 25397), (120, 25457), (122, 25490), (125, 25532), (128, 25568), (132, 25604), (134, 25619), (135, 25622), (142, 25733), (143, 25769), (145, 25820), (148, 25862), (150, 25892), (154, 25943), (157, 25976), (158, 26009), (159, 26021), (167, 26102), (170, 26123), (173, 26135), (182, 26231), (183, 26246), (184, 26267), (185, 26318), (187, 26327), (192, 26405), (199, 26453), (200, 26462), (204, 26522), (210, 26567), (213, 26576), (221, 26603), (225, 26630), (227, 26651), (230, 26687), (237, 26753), (239, 26789), (244, 26876), (245, 26879), (246, 26888), (249, 26906), (259, 26957), (262, 26963), (280, 27089), (302, 27191), (308, 27224), (314, 27287), (321, 27341), (327, 27404), (342, 27515), (348, 27542), (349, 27548), (359, 27650), (366, 27716), (370, 27743), (375, 27770), (378, 27809), (380, 27833), (385, 27875), (390, 27947), (395, 28016), (398, 28061), (418, 28376), (419, 28382),

(420, 28400), (427, 28496), (431, 28601), (437, 28700), (449, 28844), (452, 28919), (454, 28931), (458, 29015), (494, 29354), (501, 29393), (502, 29399), (505, 29405), (509, 29432), (512, 29468), (514, 29480),

Gene: BigHunkinEater_36 Start: 24088, Stop: 29013, Start Num: 11
Candidate Starts for BigHunkinEater_36:
(Start: 11 @24088 has 74 MA's), (21, 24208), (22, 24220), (26, 24262), (28, 24286), (30, 24295), (36, 24352), (37, 24361), (44, 24433), (49, 24466), (53, 24535), (55, 24544), (58, 24562), (68, 24628), (71, 24643), (74, 24652), (81, 24715), (83, 24721), (88, 24748), (93, 24778), (95, 24787), (102, 24835), (104, 24850), (108, 24895), (115, 24961), (122, 25084), (124, 25108), (125, 25126), (126, 25138), (132, 25198), (133, 25204), (135, 25216), (138, 25288), (142, 25327), (143, 25363), (144, 25402), (145, 25414), (148, 25456), (150, 25486), (154, 25537), (155, 25540), (157, 25570), (158, 25603), (167, 25696), (174, 25732), (178, 25789), (181, 25819), (184, 25861), (186, 25915), (189, 25948), (192, 25999), (199, 26047), (200, 26056), (204, 26116), (205, 26128), (207, 26149), (209, 26155), (221, 26197), (222, 26203), (224, 26218), (225, 26224), (232, 26305), (233, 26308), (235, 26329), (239, 26383), (243, 26446), (251, 26503), (266, 26590), (275, 26656), (298, 26713), (299, 26716), (302, 26740), (313, 26830), (319, 26878), (350, 27106), (353, 27124), (356, 27181), (366, 27271), (372, 27334), (383, 27415), (385, 27442), (390, 27514), (391, 27523), (395, 27583), (403, 27694), (416, 27925), (418, 27934), (421, 27961), (424, 28003), (434, 28222), (435, 28249), (438, 28321), (439, 28360), (455, 28567), (460, 28639), (468, 28705), (483, 28840), (487, 28903), (488, 28906), (490, 28924), (492, 28939), (497, 28966), (499, 28978),

Gene: Bizzy_33 Start: 23890, Stop: 28905, Start Num: 11
Candidate Starts for Bizzy_33:
(Start: 11 @23890 has 74 MA's), (16, 23965), (21, 24010), (26, 24064), (28, 24088), (31, 24130), (33, 24148), (37, 24163), (44, 24235), (48, 24262), (53, 24337), (55, 24346), (62, 24403), (63, 24421), (64, 24427), (67, 24445), (73, 24472), (104, 24679), (106, 24691), (109, 24739), (120, 24880), (122, 24913), (125, 24955), (132, 25027), (134, 25042), (135, 25045), (142, 25156), (143, 25192), (145, 25243), (148, 25285), (150, 25315), (154, 25366), (157, 25399), (158, 25432), (159, 25444), (167, 25525), (173, 25558), (174, 25561), (178, 25618), (182, 25654), (183, 25669), (184, 25690), (185, 25741), (199, 25876), (200, 25885), (207, 25978), (209, 25984), (210, 25990), (213, 25999), (220, 26023), (223, 26035), (225, 26053), (230, 26110), (239, 26212), (245, 26302), (251, 26332), (259, 26380), (262, 26386), (279, 26509), (280, 26512), (294, 26575), (298, 26587), (300, 26608), (302, 26614), (308, 26647), (314, 26710), (321, 26764), (327, 26827), (342, 26938), (348, 26965), (349, 26971), (359, 27073), (366, 27139), (383, 27271), (385, 27298), (391, 27379), (395, 27439), (398, 27484), (416, 27790), (418, 27799), (421, 27826), (425, 27895), (431, 28024), (437, 28123), (449, 28267), (452, 28336), (453, 28342), (454, 28348), (458, 28423), (461, 28453), (472, 28591), (483, 28651), (486, 28687), (489, 28732), (494, 28759), (501, 28798), (502, 28804), (505, 28810), (509, 28837), (512, 28873), (514, 28885),

Gene: BobBob_30 Start: 23955, Stop: 28781, Start Num: 11
Candidate Starts for BobBob_30:
(Start: 11 @23955 has 74 MA's), (26, 24129), (28, 24153), (57, 24291), (66, 24324), (69, 24336), (72, 24348), (76, 24366), (79, 24378), (84, 24423), (104, 24534), (116, 24654), (117, 24675), (120, 24735), (122, 24768), (125, 24810), (128, 24846), (132, 24882), (134, 24897), (135, 24900), (142, 25011), (143, 25047), (145, 25098), (148, 25140), (150, 25170), (154, 25221), (157, 25254), (158, 25287), (159, 25299), (167, 25380), (173, 25413), (182, 25509), (183, 25524), (184, 25545), (185, 25596), (187, 25605), (192, 25683), (199, 25731), (200, 25740), (204, 25800), (209, 25839), (210, 25845), (213, 25854), (221, 25881), (225, 25908), (227, 25929), (230, 25965), (237, 26031), (238, 26052), (239, 26067), (244, 26154), (245, 26157), (259, 26235), (271, 26295), (280, 26367), (302, 26469), (308, 26502), (314, 26565), (321, 26619), (327, 26682), (342, 26793), (348, 26820), (349, 26826), (359, 26928), (361, 26940), (366, 26994), (370, 27021), (375, 27048), (378, 27087), (380, 27111), (383, 27126), (385, 27153), (390, 27225), (391, 27234), (395, 27294), (398, 27339), (413, 27528),

(418, 27657), (419, 27663), (420, 27681), (427, 27777), (431, 27882), (437, 27981), (449, 28125), (452, 28200), (454, 28212), (458, 28296), (494, 28635), (501, 28674), (502, 28680), (505, 28686), (509, 28713), (512, 28749), (514, 28761),

Gene: Brandonk123_34 Start: 25024, Stop: 29847, Start Num: 11
Candidate Starts for Brandonk123_34:
(Start: 11 @25024 has 74 MA's), (26, 25198), (28, 25222), (57, 25360), (67, 25399), (69, 25405), (72, 25417), (76, 25435), (79, 25447), (80, 25474), (84, 25492), (87, 25504), (104, 25603), (116, 25723), (117, 25744), (120, 25804), (122, 25837), (125, 25879), (128, 25915), (132, 25951), (134, 25966), (135, 25969), (142, 26080), (143, 26116), (145, 26167), (148, 26209), (150, 26239), (154, 26290), (157, 26323), (158, 26356), (159, 26368), (167, 26449), (170, 26470), (173, 26482), (182, 26578), (183, 26593), (184, 26614), (185, 26665), (187, 26674), (192, 26752), (199, 26800), (200, 26809), (204, 26869), (210, 26914), (213, 26923), (221, 26950), (225, 26977), (227, 26998), (230, 27034), (237, 27100), (239, 27136), (244, 27223), (245, 27226), (259, 27304), (271, 27364), (280, 27436), (294, 27499), (300, 27532), (302, 27538), (308, 27571), (314, 27634), (321, 27688), (327, 27751), (342, 27862), (348, 27889), (349, 27895), (359, 27997), (361, 28009), (366, 28063), (370, 28090), (375, 28117), (378, 28156), (385, 28222), (390, 28294), (391, 28303), (395, 28363), (398, 28408), (418, 28723), (419, 28729), (420, 28747), (427, 28843), (431, 28948), (437, 29047), (449, 29191), (452, 29266), (454, 29278), (458, 29362), (494, 29701), (501, 29740), (502, 29746), (505, 29752), (509, 29779), (512, 29815), (514, 29827),

Gene: Brawn1_29 Start: 23841, Stop: 28655, Start Num: 11
Candidate Starts for Brawn1_29:
(Start: 11 @23841 has 74 MA's), (26, 24015), (28, 24039), (57, 24177), (67, 24216), (69, 24222), (72, 24234), (76, 24252), (79, 24264), (80, 24291), (84, 24309), (87, 24321), (89, 24327), (104, 24420), (116, 24540), (117, 24561), (120, 24621), (122, 24654), (125, 24696), (128, 24732), (132, 24768), (134, 24783), (135, 24786), (142, 24897), (143, 24933), (145, 24984), (148, 25026), (150, 25056), (154, 25107), (157, 25140), (158, 25173), (159, 25185), (167, 25266), (170, 25287), (173, 25299), (182, 25395), (183, 25410), (184, 25431), (185, 25482), (187, 25491), (199, 25617), (200, 25626), (204, 25686), (210, 25731), (213, 25740), (221, 25767), (225, 25794), (227, 25815), (230, 25851), (237, 25917), (239, 25953), (244, 26040), (245, 26043), (249, 26070), (259, 26121), (262, 26127), (280, 26253), (302, 26355), (308, 26388), (314, 26451), (321, 26505), (327, 26568), (342, 26679), (348, 26706), (349, 26712), (359, 26814), (361, 26826), (366, 26880), (370, 26907), (375, 26934), (378, 26973), (380, 26997), (383, 27012), (385, 27039), (390, 27111), (391, 27120), (395, 27180), (398, 27225), (413, 27414), (418, 27540), (419, 27546), (420, 27564), (427, 27660), (431, 27765), (437, 27864), (449, 28008), (452, 28083), (458, 28170), (494, 28509), (501, 28548), (502, 28554), (505, 28560), (509, 28587), (512, 28623), (514, 28635),

Gene: ChadMasterC_33 Start: 25682, Stop: 30712, Start Num: 11
Candidate Starts for ChadMasterC_33:
(Start: 11 @25682 has 74 MA's), (26, 25856), (28, 25880), (30, 25889), (31, 25922), (33, 25940), (37, 25955), (48, 26054), (53, 26129), (54, 26135), (55, 26138), (62, 26195), (63, 26213), (65, 26222), (67, 26237), (94, 26402), (98, 26420), (99, 26432), (104, 26471), (117, 26612), (120, 26672), (122, 26705), (125, 26747), (132, 26819), (134, 26834), (135, 26837), (142, 26948), (143, 26984), (145, 27035), (148, 27077), (150, 27107), (154, 27158), (157, 27191), (158, 27224), (159, 27236), (167, 27317), (170, 27338), (173, 27350), (182, 27446), (183, 27461), (184, 27482), (185, 27533), (187, 27542), (192, 27620), (199, 27668), (200, 27677), (204, 27737), (210, 27782), (213, 27791), (221, 27818), (225, 27845), (227, 27866), (230, 27902), (237, 27968), (239, 28004), (244, 28091), (245, 28094), (249, 28121), (259, 28172), (262, 28178), (280, 28304), (298, 28379), (302, 28406), (308, 28439), (314, 28502), (321, 28556), (327, 28619), (342, 28730), (348, 28757), (349, 28763), (359, 28865), (361, 28877), (366, 28931), (370, 28958), (375, 28985), (378, 29024), (380, 29048), (383, 29063), (385, 29090), (390, 29162), (391, 29171), (395, 29231), (398, 29276), (418, 29594), (419, 29600), (420, 29618), (427, 29714), (431, 29819), (437, 29918), (449, 30062), (452, 30131), (454, 30143),

(458, 30227), (494, 30566), (501, 30605), (502, 30611), (505, 30617), (509, 30644), (512, 30680), (514, 30692),

Gene: Charming_33 Start: 24533, Stop: 29347, Start Num: 11
Candidate Starts for Charming_33:
(Start: 11 @24533 has 74 MA's), (26, 24707), (28, 24731), (57, 24869), (66, 24902), (69, 24914), (72, 24926), (76, 24944), (79, 24956), (84, 25001), (87, 25013), (104, 25112), (116, 25232), (117, 25253), (120, 25313), (122, 25346), (125, 25388), (128, 25424), (132, 25460), (134, 25475), (135, 25478), (142, 25589), (143, 25625), (145, 25676), (148, 25718), (150, 25748), (154, 25799), (157, 25832), (158, 25865), (159, 25877), (167, 25958), (170, 25979), (173, 25991), (182, 26087), (183, 26102), (184, 26123), (185, 26174), (187, 26183), (199, 26309), (200, 26318), (204, 26378), (210, 26423), (213, 26432), (221, 26459), (225, 26486), (227, 26507), (230, 26543), (237, 26609), (239, 26645), (244, 26732), (245, 26735), (259, 26813), (262, 26819), (280, 26945), (302, 27047), (308, 27080), (314, 27143), (321, 27197), (327, 27260), (342, 27371), (348, 27398), (349, 27404), (359, 27506), (366, 27572), (368, 27587), (370, 27599), (375, 27626), (378, 27665), (385, 27731), (391, 27812), (395, 27872), (398, 27917), (418, 28232), (419, 28238), (420, 28256), (427, 28352), (437, 28556), (449, 28700), (452, 28775), (458, 28862), (476, 29057), (494, 29201), (501, 29240), (502, 29246), (505, 29252), (509, 29279), (512, 29315), (514, 29327),

Gene: CherryCola_32 Start: 20326, Stop: 25857, Start Num: 1
Candidate Starts for CherryCola_32:
(Start: 1 @20326 has 33 MA's), (3, 20413), (4, 20500), (6, 20533), (Start: 12 @20680 has 9 MA's), (13, 20701), (14, 20707), (15, 20731), (19, 20761), (25, 20800), (32, 20884), (40, 20920), (43, 20944), (48, 20983), (101, 21373), (117, 21541), (120, 21601), (125, 21673), (126, 21685), (129, 21721), (131, 21745), (139, 21844), (140, 21847), (142, 21877), (144, 21952), (145, 21964), (148, 22006), (150, 22036), (154, 22087), (166, 22228), (167, 22246), (168, 22258), (170, 22267), (181, 22369), (183, 22390), (184, 22411), (185, 22462), (186, 22465), (192, 22549), (196, 22579), (199, 22597), (204, 22666), (207, 22699), (209, 22705), (211, 22714), (214, 22720), (225, 22774), (231, 22846), (232, 22855), (234, 22876), (239, 22933), (241, 22969), (249, 23050), (251, 23053), (256, 23122), (274, 23290), (282, 23356), (283, 23359), (289, 23383), (294, 23410), (295, 23413), (296, 23416), (297, 23422), (305, 23491), (307, 23500), (311, 23545), (312, 23554), (323, 23632), (328, 23686), (335, 23740), (341, 23797), (351, 23839), (355, 23875), (359, 23938), (365, 23989), (374, 24073), (377, 24100), (381, 24139), (384, 24160), (388, 24220), (401, 24394), (402, 24397), (405, 24430), (416, 24637), (418, 24646), (419, 24652), (435, 24964), (448, 25171), (454, 25309), (465, 25459), (472, 25570), (481, 25615), (482, 25624), (483, 25630), (486, 25666), (498, 25759), (501, 25771), (508, 25801), (510, 25834), (513, 25846),

Gene: Chickadee_30 Start: 21428, Stop: 26545, Start Num: 11
Candidate Starts for Chickadee_30:
(Start: 11 @21428 has 74 MA's), (21, 21548), (26, 21602), (29, 21635), (35, 21692), (37, 21701), (38, 21704), (44, 21773), (45, 21785), (48, 21800), (50, 21836), (53, 21875), (54, 21881), (56, 21887), (61, 21920), (66, 21962), (68, 21971), (70, 21980), (71, 21986), (83, 22064), (86, 22082), (93, 22121), (102, 22178), (104, 22193), (114, 22286), (125, 22457), (132, 22529), (135, 22547), (139, 22625), (142, 22658), (143, 22694), (144, 22733), (145, 22745), (150, 22817), (154, 22868), (156, 22889), (157, 22901), (161, 22952), (163, 22982), (170, 23048), (181, 23150), (184, 23192), (186, 23246), (188, 23276), (189, 23279), (192, 23330), (195, 23357), (199, 23378), (203, 23444), (207, 23480), (209, 23486), (220, 23525), (223, 23537), (224, 23549), (225, 23555), (227, 23576), (235, 23660), (236, 23675), (238, 23699), (248, 23834), (251, 23846), (260, 23909), (261, 23912), (277, 24017), (278, 24035), (288, 24065), (299, 24116), (308, 24173), (315, 24248), (316, 24257), (317, 24266), (318, 24272), (325, 24323), (329, 24356), (330, 24368), (333, 24389), (334, 24401), (337, 24434), (340, 24455), (357, 24587), (363, 24641), (386, 24848), (394, 24962), (396, 24974), (405, 25100), (408, 25118), (411, 25196), (421, 25385), (423, 25415), (428, 25586), (433, 25613), (443, 25820), (444, 25823), (446, 25841), (463, 26090), (466, 26108), (467, 26120), (478, 26237), (495, 26393), (496,

26396), (504, 26438), (506, 26456), (509, 26471), (511, 26510),

Gene: ClamChowder_31 Start: 20106, Stop: 25637, Start Num: 1
Candidate Starts for ClamChowder_31:
(Start: 1 @20106 has 33 MA's), (3, 20193), (4, 20280), (6, 20313), (7, 20337), (Start: 12 @20460 has 9 MA's), (13, 20481), (14, 20487), (15, 20511), (19, 20541), (25, 20580), (32, 20664), (40, 20700), (43, 20724), (48, 20763), (101, 21153), (117, 21321), (120, 21381), (125, 21453), (126, 21465), (129, 21501), (131, 21525), (139, 21624), (140, 21627), (142, 21657), (144, 21732), (145, 21744), (148, 21786), (150, 21816), (154, 21867), (166, 22008), (167, 22026), (168, 22038), (170, 22047), (181, 22149), (183, 22170), (184, 22191), (185, 22242), (186, 22245), (187, 22251), (192, 22329), (196, 22359), (199, 22377), (204, 22446), (207, 22479), (209, 22485), (211, 22494), (214, 22500), (225, 22554), (228, 22599), (231, 22626), (232, 22635), (234, 22656), (239, 22713), (241, 22749), (249, 22830), (251, 22833), (256, 22902), (263, 22974), (274, 23070), (282, 23136), (283, 23139), (289, 23163), (294, 23190), (295, 23193), (296, 23196), (297, 23202), (305, 23271), (307, 23280), (311, 23325), (312, 23334), (323, 23412), (328, 23466), (335, 23520), (341, 23577), (351, 23619), (355, 23655), (359, 23718), (365, 23769), (377, 23880), (381, 23919), (388, 24000), (401, 24174), (402, 24177), (405, 24210), (416, 24417), (418, 24426), (419, 24432), (435, 24744), (448, 24951), (454, 25089), (465, 25239), (472, 25350), (481, 25395), (482, 25404), (483, 25410), (486, 25446), (498, 25539), (501, 25551), (508, 25581), (510, 25614), (513, 25626),

Gene: Clown_33 Start: 21973, Stop: 27672, Start Num: 1
Candidate Starts for Clown_33:
(Start: 1 @21973 has 33 MA's), (2, 22048), (4, 22147), (5, 22156), (6, 22180), (8, 22249), (9, 22348), (10, 22351), (27, 22606), (34, 22696), (40, 22750), (47, 22807), (52, 22873), (56, 22894), (60, 22915), (82, 23086), (90, 23122), (91, 23128), (100, 23194), (101, 23203), (103, 23224), (110, 23308), (120, 23434), (125, 23506), (126, 23518), (129, 23554), (139, 23677), (140, 23680), (142, 23710), (144, 23785), (145, 23797), (147, 23830), (148, 23839), (151, 23893), (157, 23953), (159, 24001), (164, 24034), (167, 24079), (168, 24091), (170, 24100), (184, 24244), (185, 24295), (186, 24298), (189, 24331), (191, 24373), (193, 24388), (196, 24412), (199, 24430), (200, 24439), (204, 24499), (209, 24538), (210, 24544), (212, 24550), (215, 24556), (216, 24559), (220, 24577), (223, 24589), (225, 24607), (231, 24679), (235, 24712), (236, 24727), (239, 24766), (243, 24829), (251, 24886), (270, 25093), (283, 25192), (289, 25216), (294, 25243), (295, 25246), (296, 25249), (305, 25324), (307, 25333), (311, 25378), (312, 25387), (314, 25399), (323, 25465), (328, 25519), (335, 25573), (343, 25642), (351, 25672), (358, 25753), (359, 25771), (362, 25789), (365, 25822), (367, 25852), (391, 26062), (395, 26122), (398, 26167), (399, 26170), (403, 26233), (412, 26344), (414, 26362), (416, 26461), (417, 26464), (418, 26470), (419, 26476), (426, 26596), (438, 26869), (440, 26926), (441, 26950), (447, 26977), (474, 27400), (486, 27484), (493, 27547), (496, 27562), (501, 27589), (507, 27616), (508, 27619),

Gene: CoveyB_31 Start: 19906, Stop: 25437, Start Num: 1
Candidate Starts for CoveyB_31:
(Start: 1 @19906 has 33 MA's), (3, 19993), (4, 20080), (6, 20113), (7, 20137), (Start: 12 @20260 has 9 MA's), (13, 20281), (14, 20287), (15, 20311), (19, 20341), (25, 20380), (32, 20464), (40, 20500), (43, 20524), (48, 20563), (101, 20953), (117, 21121), (120, 21181), (125, 21253), (126, 21265), (129, 21301), (131, 21325), (139, 21424), (140, 21427), (142, 21457), (144, 21532), (145, 21544), (148, 21586), (150, 21616), (154, 21667), (166, 21808), (167, 21826), (168, 21838), (170, 21847), (181, 21949), (183, 21970), (184, 21991), (185, 22042), (186, 22045), (187, 22051), (192, 22129), (196, 22159), (199, 22177), (204, 22246), (207, 22279), (209, 22285), (211, 22294), (214, 22300), (225, 22354), (228, 22399), (231, 22426), (232, 22435), (234, 22456), (239, 22513), (241, 22549), (249, 22630), (251, 22633), (256, 22702), (263, 22774), (274, 22870), (282, 22936), (283, 22939), (289, 22963), (294, 22990), (295, 22993), (296, 22996), (297, 23002), (305, 23071), (307, 23080), (311, 23125), (312, 23134), (323, 23212), (328, 23266), (335, 23320), (341, 23377), (351, 23419), (355, 23455), (359, 23518), (365, 23569), (377, 23680), (381, 23719), (388, 23800), (401, 23974), (402,

23977), (405, 24010), (416, 24217), (418, 24226), (419, 24232), (435, 24544), (448, 24751), (454, 24889), (465, 25039), (472, 25150), (481, 25195), (482, 25204), (486, 25246), (498, 25339), (501, 25351), (508, 25381), (510, 25414), (513, 25426),

Gene: Danyall_31 Start: 19906, Stop: 25437, Start Num: 1
Candidate Starts for Danyall_31:
(Start: 1 @19906 has 33 MA's), (3, 19993), (4, 20080), (6, 20113), (7, 20137), (Start: 12 @20260 has 9 MA's), (13, 20281), (14, 20287), (15, 20311), (19, 20341), (25, 20380), (32, 20464), (40, 20500), (43, 20524), (48, 20563), (101, 20953), (117, 21121), (120, 21181), (125, 21253), (126, 21265), (129, 21301), (131, 21325), (139, 21424), (140, 21427), (142, 21457), (144, 21532), (145, 21544), (148, 21586), (150, 21616), (154, 21667), (166, 21808), (167, 21826), (168, 21838), (170, 21847), (181, 21949), (183, 21970), (184, 21991), (185, 22042), (186, 22045), (187, 22051), (192, 22129), (196, 22159), (199, 22177), (204, 22246), (207, 22279), (209, 22285), (211, 22294), (214, 22300), (225, 22354), (228, 22399), (231, 22426), (232, 22435), (234, 22456), (239, 22513), (241, 22549), (249, 22630), (251, 22633), (256, 22702), (263, 22774), (274, 22870), (282, 22936), (283, 22939), (289, 22963), (294, 22990), (295, 22993), (296, 22996), (297, 23002), (305, 23071), (307, 23080), (311, 23125), (312, 23134), (323, 23212), (328, 23266), (335, 23320), (341, 23377), (351, 23419), (355, 23455), (359, 23518), (365, 23569), (377, 23680), (381, 23719), (388, 23800), (401, 23974), (402, 23977), (405, 24010), (416, 24217), (418, 24226), (419, 24232), (435, 24544), (448, 24751), (454, 24889), (465, 25039), (472, 25150), (481, 25195), (482, 25204), (483, 25210), (486, 25246), (498, 25339), (501, 25351), (508, 25381), (510, 25414), (513, 25426),

Gene: Delrey21_32 Start: 25053, Stop: 29963, Start Num: 11
Candidate Starts for Delrey21_32:
(Start: 11 @25053 has 74 MA's), (21, 25173), (22, 25185), (25, 25206), (26, 25227), (28, 25251), (36, 25317), (37, 25326), (38, 25329), (49, 25431), (53, 25500), (55, 25509), (74, 25617), (78, 25638), (81, 25680), (83, 25686), (93, 25743), (95, 25752), (104, 25815), (112, 25914), (115, 25926), (119, 25968), (122, 26049), (124, 26073), (126, 26103), (130, 26160), (132, 26163), (133, 26169), (135, 26181), (138, 26253), (142, 26292), (143, 26328), (144, 26367), (145, 26379), (148, 26421), (150, 26451), (157, 26535), (158, 26568), (167, 26661), (170, 26682), (174, 26697), (181, 26784), (184, 26826), (186, 26880), (187, 26886), (189, 26913), (198, 27000), (199, 27012), (200, 27021), (204, 27081), (205, 27093), (209, 27120), (221, 27162), (222, 27168), (224, 27183), (225, 27189), (228, 27234), (231, 27261), (232, 27270), (233, 27273), (243, 27411), (249, 27465), (251, 27468), (266, 27555), (291, 27657), (301, 27702), (302, 27705), (313, 27795), (350, 28071), (352, 28086), (353, 28089), (364, 28212), (366, 28236), (372, 28299), (382, 28356), (391, 28473), (393, 28515), (395, 28533), (403, 28644), (410, 28746), (417, 28878), (418, 28884), (419, 28890), (421, 28911), (424, 28953), (434, 29172), (435, 29199), (438, 29271), (439, 29310), (455, 29517), (459, 29583), (460, 29589), (468, 29655), (475, 29751), (483, 29790), (487, 29853), (488, 29856), (490, 29874), (492, 29889), (497, 29916), (499, 29928),

Gene: Derg_28 Start: 23486, Stop: 28501, Start Num: 11
Candidate Starts for Derg_28:
(Start: 11 @23486 has 74 MA's), (16, 23561), (21, 23606), (26, 23660), (28, 23684), (31, 23726), (33, 23744), (37, 23759), (44, 23831), (48, 23858), (53, 23933), (55, 23942), (62, 23999), (63, 24017), (64, 24023), (67, 24041), (73, 24068), (98, 24224), (104, 24275), (106, 24287), (109, 24335), (120, 24476), (122, 24509), (125, 24551), (132, 24623), (134, 24638), (135, 24641), (142, 24752), (143, 24788), (145, 24839), (148, 24881), (150, 24911), (154, 24962), (157, 24995), (158, 25028), (159, 25040), (167, 25121), (173, 25154), (174, 25157), (178, 25214), (182, 25250), (183, 25265), (184, 25286), (185, 25337), (199, 25472), (204, 25541), (209, 25580), (210, 25586), (213, 25595), (221, 25622), (225, 25649), (227, 25670), (230, 25706), (232, 25730), (233, 25733), (236, 25769), (239, 25808), (245, 25898), (251, 25928), (259, 25976), (262, 25982), (279, 26105), (280, 26108), (281, 26114), (294, 26171), (298, 26183), (302, 26210), (308, 26243), (309, 26249), (314, 26306), (321, 26360), (327, 26423), (342, 26534), (348, 26561), (349, 26567), (359, 26669), (366, 26735), (383, 26867),

(385, 26894), (391, 26975), (395, 27035), (398, 27080), (416, 27386), (418, 27395), (421, 27422), (425, 27491), (437, 27719), (449, 27863), (452, 27932), (453, 27938), (454, 27944), (458, 28019), (461, 28049), (472, 28187), (483, 28247), (486, 28283), (489, 28328), (494, 28355), (501, 28394), (502, 28400), (505, 28406), (509, 28433), (512, 28469), (514, 28481),

Gene: Dexdert_31 Start: 21862, Stop: 26988, Start Num: 11
Candidate Starts for Dexdert_31:
(Start: 11 @21862 has 74 MA's), (26, 22036), (29, 22069), (35, 22126), (37, 22135), (38, 22138), (44, 22207), (45, 22219), (48, 22234), (50, 22270), (53, 22309), (54, 22315), (56, 22321), (61, 22354), (66, 22396), (68, 22405), (70, 22414), (71, 22420), (76, 22447), (83, 22498), (86, 22516), (102, 22612), (104, 22627), (108, 22672), (114, 22720), (125, 22891), (132, 22963), (135, 22981), (139, 23059), (142, 23092), (143, 23128), (144, 23167), (145, 23179), (150, 23251), (154, 23302), (156, 23323), (157, 23335), (161, 23386), (163, 23416), (170, 23482), (181, 23584), (184, 23626), (186, 23680), (188, 23710), (189, 23713), (192, 23764), (195, 23791), (199, 23812), (203, 23878), (207, 23914), (209, 23920), (220, 23959), (221, 23962), (224, 23983), (225, 23989), (227, 24010), (231, 24061), (235, 24094), (236, 24109), (238, 24133), (260, 24343), (261, 24346), (277, 24451), (278, 24469), (288, 24499), (299, 24550), (308, 24607), (315, 24682), (316, 24691), (317, 24700), (318, 24706), (325, 24757), (329, 24790), (330, 24802), (333, 24823), (334, 24835), (337, 24868), (340, 24889), (357, 25021), (363, 25075), (386, 25282), (394, 25396), (396, 25408), (405, 25534), (408, 25552), (411, 25630), (421, 25819), (423, 25849), (433, 26047), (443, 26254), (444, 26257), (446, 26275), (463, 26524), (466, 26542), (467, 26554), (478, 26680), (495, 26836), (496, 26839), (504, 26881), (506, 26899), (509, 26914), (511, 26953),

Gene: DoctorFroggo_32 Start: 25053, Stop: 29963, Start Num: 11
Candidate Starts for DoctorFroggo_32:
(Start: 11 @25053 has 74 MA's), (21, 25173), (22, 25185), (25, 25206), (26, 25227), (28, 25251), (36, 25317), (37, 25326), (38, 25329), (49, 25431), (53, 25500), (55, 25509), (74, 25617), (78, 25638), (81, 25680), (83, 25686), (93, 25743), (95, 25752), (104, 25815), (112, 25914), (115, 25926), (119, 25968), (122, 26049), (124, 26073), (126, 26103), (130, 26160), (132, 26163), (133, 26169), (135, 26181), (138, 26253), (142, 26292), (143, 26328), (144, 26367), (145, 26379), (148, 26421), (150, 26451), (157, 26535), (158, 26568), (167, 26661), (170, 26682), (174, 26697), (181, 26784), (184, 26826), (186, 26880), (187, 26886), (189, 26913), (198, 27000), (199, 27012), (200, 27021), (204, 27081), (205, 27093), (209, 27120), (221, 27162), (222, 27168), (224, 27183), (225, 27189), (228, 27234), (231, 27261), (232, 27270), (233, 27273), (243, 27411), (249, 27465), (251, 27468), (266, 27555), (291, 27657), (301, 27702), (302, 27705), (313, 27795), (350, 28071), (352, 28086), (353, 28089), (364, 28212), (366, 28236), (372, 28299), (382, 28356), (391, 28473), (393, 28515), (395, 28533), (403, 28644), (410, 28746), (417, 28878), (418, 28884), (419, 28890), (421, 28911), (424, 28953), (434, 29172), (435, 29199), (438, 29271), (439, 29310), (455, 29517), (459, 29583), (460, 29589), (468, 29655), (475, 29751), (483, 29790), (487, 29853), (488, 29856), (490, 29874), (492, 29889), (497, 29916), (499, 29928),

Gene: EMoore_29 Start: 23379, Stop: 28523, Start Num: 12
Candidate Starts for EMoore_29:
(Start: 12 @23379 has 9 MA's), (21, 23499), (26, 23553), (28, 23577), (31, 23619), (37, 23652), (38, 23655), (48, 23751), (53, 23826), (54, 23832), (56, 23838), (61, 23871), (66, 23913), (71, 23937), (74, 23946), (79, 23976), (86, 24033), (93, 24072), (95, 24081), (96, 24084), (104, 24144), (105, 24147), (111, 24222), (112, 24231), (122, 24366), (123, 24375), (127, 24432), (133, 24486), (135, 24498), (139, 24576), (142, 24609), (143, 24645), (144, 24684), (145, 24696), (149, 24744), (150, 24768), (157, 24852), (160, 24900), (161, 24903), (168, 24990), (171, 25002), (179, 25089), (184, 25143), (186, 25197), (187, 25203), (189, 25230), (192, 25281), (199, 25329), (200, 25338), (204, 25398), (205, 25410), (207, 25431), (209, 25437), (210, 25443), (211, 25446), (212, 25449), (220, 25476), (225, 25506), (228, 25551), (231, 25578), (233, 25590), (235, 25611), (236, 25626), (239, 25665), (247, 25785), (250, 25839), (257, 25914), (258, 25926), (264, 25989), (268, 26034), (271, 26055),

(276, 26100), (278, 26142), (279, 26145), (284, 26169), (285, 26187), (286, 26199), (290, 26220), (293, 26232), (296, 26250), (298, 26277), (299, 26280), (310, 26364), (317, 26430), (323, 26463), (326, 26505), (328, 26517), (339, 26616), (345, 26646), (350, 26673), (355, 26709), (370, 26865), (371, 26868), (376, 26922), (382, 26946), (390, 27054), (391, 27063), (395, 27123), (397, 27153), (398, 27168), (403, 27234), (409, 27270), (417, 27465), (418, 27471), (421, 27498), (423, 27534), (438, 27861), (439, 27900), (457, 28137), (468, 28215), (475, 28311), (490, 28434), (497, 28476), (499, 28488),

Gene: EdmundFerry_29 Start: 21457, Stop: 26574, Start Num: 11
Candidate Starts for EdmundFerry_29:
(Start: 11 @21457 has 74 MA's), (21, 21577), (26, 21631), (29, 21664), (35, 21721), (37, 21730), (38, 21733), (44, 21802), (45, 21814), (48, 21829), (50, 21865), (53, 21904), (54, 21910), (56, 21916), (61, 21949), (66, 21991), (68, 22000), (70, 22009), (71, 22015), (83, 22093), (86, 22111), (93, 22150), (102, 22207), (104, 22222), (114, 22315), (125, 22486), (132, 22558), (135, 22576), (139, 22654), (142, 22687), (143, 22723), (144, 22762), (145, 22774), (150, 22846), (152, 22876), (154, 22897), (156, 22918), (157, 22930), (161, 22981), (163, 23011), (170, 23077), (181, 23179), (184, 23221), (186, 23275), (188, 23305), (189, 23308), (192, 23359), (195, 23386), (199, 23407), (203, 23473), (207, 23509), (209, 23515), (220, 23554), (223, 23566), (224, 23578), (225, 23584), (227, 23605), (235, 23689), (236, 23704), (238, 23728), (248, 23863), (260, 23938), (261, 23941), (277, 24046), (278, 24064), (288, 24094), (299, 24145), (308, 24202), (315, 24277), (316, 24286), (317, 24295), (318, 24301), (325, 24352), (329, 24385), (330, 24397), (333, 24418), (334, 24430), (337, 24463), (340, 24484), (357, 24616), (363, 24670), (386, 24877), (394, 24991), (396, 25003), (405, 25129), (408, 25147), (411, 25225), (421, 25414), (423, 25444), (428, 25615), (433, 25642), (443, 25849), (444, 25852), (446, 25870), (463, 26119), (466, 26137), (467, 26149), (478, 26266), (495, 26422), (496, 26425), (504, 26467), (506, 26485), (509, 26500), (511, 26539),

Gene: Egi03_29 Start: 19614, Stop: 25127, Start Num: 1
Candidate Starts for Egi03_29:
(Start: 1 @19614 has 33 MA's), (3, 19701), (4, 19788), (6, 19821), (7, 19845), (Start: 12 @19968 has 9 MA's), (13, 19989), (14, 19995), (15, 20019), (19, 20049), (25, 20088), (32, 20172), (40, 20208), (43, 20232), (48, 20271), (101, 20661), (117, 20829), (120, 20889), (125, 20961), (126, 20973), (129, 21009), (131, 21033), (139, 21132), (140, 21135), (142, 21165), (144, 21240), (145, 21252), (148, 21294), (150, 21324), (154, 21375), (166, 21516), (167, 21534), (168, 21546), (170, 21555), (181, 21657), (183, 21678), (184, 21699), (185, 21750), (186, 21753), (192, 21837), (196, 21867), (199, 21885), (204, 21954), (207, 21987), (209, 21993), (211, 22002), (214, 22008), (225, 22062), (231, 22134), (232, 22143), (234, 22164), (239, 22221), (241, 22257), (249, 22338), (251, 22341), (256, 22410), (263, 22482), (274, 22578), (282, 22644), (283, 22647), (289, 22671), (294, 22698), (295, 22701), (296, 22704), (297, 22710), (305, 22779), (307, 22788), (311, 22833), (312, 22842), (323, 22920), (328, 22974), (335, 23028), (341, 23085), (351, 23127), (355, 23163), (359, 23226), (365, 23277), (377, 23388), (381, 23427), (388, 23508), (401, 23682), (402, 23685), (405, 23718), (407, 23733), (416, 23925), (418, 23934), (419, 23940), (421, 23961), (435, 24249), (448, 24456), (451, 24546), (465, 24729), (472, 24840), (481, 24885), (482, 24894), (486, 24936), (500, 25035), (501, 25041), (508, 25071), (510, 25104), (513, 25116),

Gene: Evamon_29 Start: 19392, Stop: 24923, Start Num: 1
Candidate Starts for Evamon_29:
(Start: 1 @19392 has 33 MA's), (3, 19479), (4, 19566), (6, 19599), (7, 19623), (Start: 12 @19746 has 9 MA's), (13, 19767), (14, 19773), (15, 19797), (19, 19827), (25, 19866), (32, 19950), (40, 19986), (43, 20010), (48, 20049), (101, 20439), (117, 20607), (120, 20667), (125, 20739), (126, 20751), (129, 20787), (131, 20811), (139, 20910), (140, 20913), (142, 20943), (144, 21018), (145, 21030), (148, 21072), (150, 21102), (154, 21153), (166, 21294), (167, 21312), (168, 21324), (170, 21333), (181, 21435), (183, 21456), (184, 21477), (185, 21528), (186, 21531), (187, 21537), (192, 21615), (196, 21645), (199, 21663), (204, 21732), (207, 21765), (209, 21771), (211, 21780), (214, 21786), (225,

21840), (228, 21885), (231, 21912), (232, 21921), (234, 21942), (239, 21999), (241, 22035), (249, 22116), (251, 22119), (256, 22188), (263, 22260), (274, 22356), (282, 22422), (283, 22425), (289, 22449), (294, 22476), (295, 22479), (296, 22482), (297, 22488), (305, 22557), (307, 22566), (311, 22611), (312, 22620), (323, 22698), (328, 22752), (335, 22806), (341, 22863), (351, 22905), (355, 22941), (359, 23004), (365, 23055), (377, 23166), (381, 23205), (388, 23286), (401, 23460), (402, 23463), (405, 23496), (416, 23703), (418, 23712), (419, 23718), (435, 24030), (448, 24237), (454, 24375), (465, 24525), (472, 24636), (481, 24681), (482, 24690), (483, 24696), (486, 24732), (498, 24825), (501, 24837), (508, 24867), (510, 24900), (513, 24912),

Gene: Fireball_30 Start: 19524, Stop: 25058, Start Num: 1
Candidate Starts for Fireball_30:
(Start: 1 @19524 has 33 MA's), (3, 19611), (4, 19698), (6, 19731), (7, 19755), (Start: 12 @19878 has 9 MA's), (13, 19899), (14, 19905), (15, 19929), (18, 19938), (19, 19959), (25, 19998), (32, 20082), (40, 20118), (43, 20142), (48, 20181), (101, 20571), (117, 20739), (120, 20799), (125, 20871), (126, 20883), (129, 20919), (131, 20943), (139, 21042), (140, 21045), (142, 21075), (144, 21150), (145, 21162), (148, 21204), (150, 21234), (154, 21285), (166, 21426), (167, 21444), (168, 21456), (170, 21465), (181, 21567), (183, 21588), (184, 21609), (185, 21660), (186, 21663), (192, 21747), (196, 21777), (199, 21795), (204, 21864), (207, 21897), (209, 21903), (211, 21912), (214, 21918), (225, 21972), (231, 22044), (232, 22053), (234, 22074), (239, 22131), (241, 22167), (249, 22248), (251, 22251), (256, 22320), (263, 22392), (274, 22488), (282, 22554), (283, 22557), (289, 22581), (294, 22608), (295, 22611), (296, 22614), (297, 22620), (305, 22689), (307, 22698), (311, 22743), (312, 22752), (323, 22830), (336, 22959), (338, 22974), (344, 23016), (351, 23058), (354, 23076), (355, 23094), (359, 23157), (365, 23208), (377, 23319), (381, 23358), (388, 23439), (401, 23613), (402, 23616), (405, 23649), (407, 23664), (416, 23856), (418, 23865), (419, 23871), (426, 23985), (430, 24105), (439, 24285), (454, 24510), (465, 24660), (481, 24816), (482, 24825), (486, 24867), (500, 24966), (501, 24972), (508, 25002), (510, 25035), (513, 25047),

Gene: Fitzgerald_31 Start: 25116, Stop: 29930, Start Num: 11
Candidate Starts for Fitzgerald_31:
(Start: 11 @25116 has 74 MA's), (26, 25290), (28, 25314), (57, 25452), (67, 25491), (69, 25497), (72, 25509), (76, 25527), (79, 25539), (80, 25566), (84, 25584), (87, 25596), (89, 25602), (104, 25695), (116, 25815), (117, 25836), (120, 25896), (122, 25929), (125, 25971), (128, 26007), (132, 26043), (134, 26058), (135, 26061), (142, 26172), (143, 26208), (145, 26259), (148, 26301), (150, 26331), (154, 26382), (157, 26415), (158, 26448), (159, 26460), (167, 26541), (170, 26562), (173, 26574), (182, 26670), (183, 26685), (184, 26706), (185, 26757), (187, 26766), (199, 26892), (200, 26901), (204, 26961), (210, 27006), (213, 27015), (221, 27042), (225, 27069), (227, 27090), (230, 27126), (237, 27192), (239, 27228), (244, 27315), (245, 27318), (249, 27345), (259, 27396), (262, 27402), (280, 27528), (302, 27630), (308, 27663), (314, 27726), (321, 27780), (327, 27843), (342, 27954), (348, 27981), (349, 27987), (359, 28089), (361, 28101), (366, 28155), (370, 28182), (375, 28209), (378, 28248), (380, 28272), (383, 28287), (385, 28314), (390, 28386), (391, 28395), (395, 28455), (398, 28500), (413, 28689), (418, 28815), (419, 28821), (420, 28839), (427, 28935), (431, 29040), (437, 29139), (449, 29283), (452, 29358), (458, 29445), (494, 29784), (501, 29823), (502, 29829), (505, 29835), (509, 29862), (512, 29898), (514, 29910),

Gene: Flatwoods_33 Start: 23847, Stop: 28862, Start Num: 11
Candidate Starts for Flatwoods_33:
(Start: 11 @23847 has 74 MA's), (16, 23922), (21, 23967), (26, 24021), (28, 24045), (31, 24087), (33, 24105), (37, 24120), (44, 24192), (48, 24219), (53, 24294), (55, 24303), (61, 24339), (62, 24360), (63, 24378), (64, 24384), (67, 24402), (73, 24429), (104, 24636), (106, 24648), (109, 24696), (120, 24837), (122, 24870), (125, 24912), (132, 24984), (134, 24999), (135, 25002), (142, 25113), (143, 25149), (145, 25200), (148, 25242), (150, 25272), (154, 25323), (157, 25356), (158, 25389), (159, 25401), (167, 25482), (173, 25515), (174, 25518), (178, 25575), (182, 25611), (183, 25626), (184, 25647), (185, 25698), (199, 25833), (204, 25902), (209, 25941), (210, 25947), (213, 25956), (221, 25983),

(225, 26010), (227, 26031), (230, 26067), (232, 26091), (233, 26094), (236, 26130), (239, 26169), (245, 26259), (251, 26289), (259, 26337), (262, 26343), (279, 26466), (280, 26469), (281, 26475), (294, 26532), (298, 26544), (302, 26571), (308, 26604), (309, 26610), (314, 26667), (321, 26721), (327, 26784), (342, 26895), (348, 26922), (349, 26928), (359, 27030), (366, 27096), (383, 27228), (385, 27255), (391, 27336), (395, 27396), (398, 27441), (416, 27747), (418, 27756), (421, 27783), (425, 27852), (431, 27981), (437, 28080), (449, 28224), (452, 28293), (453, 28299), (454, 28305), (458, 28380), (461, 28410), (472, 28548), (483, 28608), (486, 28644), (489, 28689), (494, 28716), (501, 28755), (502, 28761), (505, 28767), (509, 28794), (512, 28830), (514, 28842),

Gene: Fosterous_31 Start: 24949, Stop: 29772, Start Num: 11
Candidate Starts for Fosterous_31:
(Start: 11 @24949 has 74 MA's), (26, 25123), (28, 25147), (57, 25285), (66, 25318), (69, 25330), (72, 25342), (76, 25360), (79, 25372), (84, 25417), (104, 25528), (117, 25669), (120, 25729), (122, 25762), (125, 25804), (128, 25840), (132, 25876), (134, 25891), (135, 25894), (142, 26005), (143, 26041), (145, 26092), (148, 26134), (150, 26164), (154, 26215), (157, 26248), (158, 26281), (159, 26293), (167, 26374), (173, 26407), (182, 26503), (183, 26518), (184, 26539), (185, 26590), (187, 26599), (192, 26677), (199, 26725), (200, 26734), (204, 26794), (209, 26833), (210, 26839), (213, 26848), (221, 26875), (225, 26902), (227, 26923), (230, 26959), (237, 27025), (238, 27046), (239, 27061), (244, 27148), (245, 27151), (259, 27229), (271, 27289), (280, 27361), (302, 27463), (308, 27496), (314, 27559), (321, 27613), (327, 27676), (342, 27787), (348, 27814), (349, 27820), (359, 27922), (361, 27934), (366, 27988), (370, 28015), (375, 28042), (378, 28081), (380, 28105), (383, 28120), (385, 28147), (390, 28219), (391, 28228), (395, 28288), (398, 28333), (418, 28648), (419, 28654), (420, 28672), (427, 28768), (431, 28873), (437, 28972), (449, 29116), (452, 29191), (454, 29203), (458, 29287), (494, 29626), (501, 29665), (502, 29671), (505, 29677), (509, 29704), (512, 29740), (514, 29752),

Gene: FuegoCuervo_35 Start: 23500, Stop: 28317, Start Num: 11
Candidate Starts for FuegoCuervo_35:
(Start: 11 @23500 has 74 MA's), (26, 23674), (28, 23698), (57, 23836), (66, 23869), (69, 23881), (72, 23893), (76, 23911), (79, 23923), (84, 23968), (87, 23980), (104, 24079), (116, 24199), (117, 24220), (120, 24280), (122, 24313), (125, 24355), (128, 24391), (132, 24427), (134, 24442), (135, 24445), (142, 24556), (143, 24592), (145, 24643), (148, 24685), (150, 24715), (154, 24766), (157, 24799), (158, 24832), (159, 24844), (167, 24925), (170, 24946), (173, 24958), (182, 25054), (183, 25069), (184, 25090), (185, 25141), (187, 25150), (192, 25228), (199, 25276), (200, 25285), (204, 25345), (210, 25390), (213, 25399), (221, 25426), (225, 25453), (227, 25474), (230, 25510), (237, 25576), (239, 25612), (244, 25699), (245, 25702), (246, 25711), (249, 25729), (259, 25780), (262, 25786), (280, 25912), (298, 25987), (302, 26014), (308, 26047), (314, 26110), (321, 26164), (327, 26227), (342, 26338), (348, 26365), (349, 26371), (359, 26473), (361, 26485), (366, 26539), (370, 26566), (375, 26593), (378, 26632), (380, 26656), (383, 26671), (385, 26698), (390, 26770), (391, 26779), (395, 26839), (398, 26884), (413, 27073), (418, 27202), (419, 27208), (420, 27226), (427, 27322), (431, 27427), (437, 27526), (449, 27670), (452, 27745), (454, 27757), (458, 27832), (494, 28171), (501, 28210), (502, 28216), (505, 28222), (509, 28249), (512, 28285), (514, 28297),

Gene: Fugax_31 Start: 20106, Stop: 25637, Start Num: 1
Candidate Starts for Fugax_31:
(Start: 1 @20106 has 33 MA's), (3, 20193), (4, 20280), (6, 20313), (7, 20337), (Start: 12 @20460 has 9 MA's), (13, 20481), (14, 20487), (15, 20511), (19, 20541), (25, 20580), (32, 20664), (40, 20700), (43, 20724), (48, 20763), (101, 21153), (117, 21321), (120, 21381), (125, 21453), (126, 21465), (129, 21501), (131, 21525), (139, 21624), (140, 21627), (142, 21657), (144, 21732), (145, 21744), (148, 21786), (150, 21816), (154, 21867), (166, 22008), (167, 22026), (168, 22038), (170, 22047), (181, 22149), (183, 22170), (184, 22191), (185, 22242), (186, 22245), (187, 22251), (192, 22329), (196, 22359), (199, 22377), (204, 22446), (207, 22479), (209, 22485), (211, 22494), (214, 22500), (225, 22554), (228, 22599), (231, 22626), (232, 22635), (234, 22656), (239, 22713), (241, 22749), (249,

22830), (251, 22833), (256, 22902), (263, 22974), (274, 23070), (282, 23136), (283, 23139), (289, 23163), (294, 23190), (295, 23193), (296, 23196), (297, 23202), (305, 23271), (307, 23280), (311, 23325), (312, 23334), (323, 23412), (328, 23466), (335, 23520), (341, 23577), (351, 23619), (355, 23655), (359, 23718), (365, 23769), (377, 23880), (381, 23919), (388, 24000), (401, 24174), (402, 24177), (405, 24210), (416, 24417), (418, 24426), (419, 24432), (435, 24744), (448, 24951), (454, 25089), (465, 25239), (472, 25350), (481, 25395), (482, 25404), (483, 25410), (486, 25446), (498, 25539), (501, 25551), (508, 25581), (510, 25614), (513, 25626),

Gene: GTE6_30 Start: 21946, Stop: 27066, Start Num: 11
Candidate Starts for GTE6_30:
(Start: 11 @21946 has 74 MA's), (21, 22066), (26, 22120), (29, 22153), (35, 22210), (37, 22219), (38, 22222), (44, 22291), (45, 22303), (48, 22318), (50, 22354), (53, 22393), (54, 22399), (56, 22405), (61, 22438), (66, 22480), (68, 22489), (70, 22498), (71, 22504), (83, 22582), (86, 22600), (93, 22639), (102, 22696), (104, 22711), (125, 22975), (132, 23047), (135, 23065), (139, 23143), (142, 23176), (143, 23212), (144, 23251), (145, 23263), (150, 23335), (151, 23359), (152, 23365), (154, 23386), (156, 23407), (157, 23419), (161, 23470), (163, 23500), (170, 23566), (181, 23668), (184, 23710), (186, 23764), (188, 23794), (189, 23797), (192, 23848), (195, 23875), (199, 23896), (203, 23962), (207, 23998), (209, 24004), (219, 24034), (220, 24043), (223, 24055), (224, 24067), (225, 24073), (227, 24094), (231, 24145), (235, 24178), (236, 24193), (238, 24217), (248, 24352), (260, 24427), (261, 24430), (277, 24535), (278, 24553), (288, 24583), (299, 24634), (308, 24691), (315, 24766), (316, 24775), (317, 24784), (318, 24790), (324, 24832), (325, 24841), (329, 24874), (330, 24886), (333, 24907), (334, 24919), (337, 24952), (340, 24973), (357, 25105), (363, 25159), (386, 25366), (394, 25480), (396, 25492), (400, 25570), (405, 25618), (408, 25636), (411, 25714), (421, 25903), (423, 25933), (428, 26104), (433, 26131), (443, 26338), (444, 26341), (446, 26359), (463, 26608), (466, 26626), (467, 26638), (478, 26758), (495, 26914), (496, 26917), (504, 26959), (506, 26977), (509, 26992), (511, 27031),

Gene: Gaea_32 Start: 23498, Stop: 28510, Start Num: 11
Candidate Starts for Gaea_32:
(Start: 11 @23498 has 74 MA's), (16, 23573), (21, 23618), (26, 23672), (28, 23696), (31, 23738), (33, 23756), (37, 23771), (44, 23843), (48, 23870), (53, 23945), (55, 23954), (62, 24011), (63, 24029), (64, 24035), (104, 24287), (106, 24299), (109, 24347), (120, 24488), (122, 24521), (125, 24563), (132, 24635), (134, 24650), (135, 24653), (142, 24764), (143, 24800), (145, 24851), (148, 24893), (150, 24923), (154, 24974), (157, 25007), (158, 25040), (159, 25052), (167, 25133), (173, 25166), (174, 25169), (178, 25226), (182, 25262), (183, 25277), (184, 25298), (185, 25349), (199, 25484), (200, 25493), (207, 25586), (209, 25592), (210, 25598), (213, 25607), (220, 25631), (223, 25643), (225, 25661), (230, 25718), (239, 25820), (242, 25862), (245, 25910), (251, 25940), (259, 25988), (262, 25994), (280, 26120), (294, 26183), (298, 26195), (300, 26216), (302, 26222), (308, 26255), (314, 26318), (321, 26372), (342, 26546), (348, 26573), (349, 26579), (359, 26681), (366, 26747), (383, 26879), (385, 26906), (391, 26987), (395, 27047), (398, 27092), (416, 27398), (418, 27407), (421, 27434), (437, 27728), (449, 27872), (452, 27941), (453, 27947), (454, 27953), (458, 28028), (461, 28058), (472, 28196), (483, 28256), (486, 28292), (489, 28337), (494, 28364), (501, 28403), (502, 28409), (505, 28415), (509, 28442), (512, 28478), (514, 28490),

Gene: Galadriel_33 Start: 25438, Stop: 30261, Start Num: 11
Candidate Starts for Galadriel_33:
(Start: 11 @25438 has 74 MA's), (26, 25612), (28, 25636), (57, 25774), (69, 25819), (72, 25831), (76, 25849), (79, 25861), (80, 25888), (84, 25906), (87, 25918), (104, 26017), (116, 26137), (117, 26158), (120, 26218), (122, 26251), (125, 26293), (128, 26329), (132, 26365), (134, 26380), (135, 26383), (142, 26494), (143, 26530), (145, 26581), (148, 26623), (150, 26653), (154, 26704), (157, 26737), (158, 26770), (159, 26782), (167, 26863), (169, 26881), (170, 26884), (173, 26896), (182, 26992), (183, 27007), (184, 27028), (185, 27079), (187, 27088), (192, 27166), (199, 27214), (200, 27223), (204, 27283), (210, 27328), (213, 27337), (221, 27364), (225, 27391), (227, 27412), (230, 27448),

(237, 27514), (239, 27550), (244, 27637), (245, 27640), (246, 27649), (249, 27667), (259, 27718), (262, 27724), (280, 27850), (298, 27925), (302, 27952), (308, 27985), (314, 28048), (321, 28102), (327, 28165), (342, 28276), (348, 28303), (349, 28309), (359, 28411), (361, 28423), (366, 28477), (370, 28504), (375, 28531), (378, 28570), (380, 28594), (385, 28636), (390, 28708), (391, 28717), (395, 28777), (398, 28822), (418, 29137), (419, 29143), (420, 29161), (427, 29257), (431, 29362), (437, 29461), (449, 29605), (452, 29680), (454, 29692), (458, 29776), (494, 30115), (501, 30154), (502, 30160), (505, 30166), (509, 30193), (512, 30229), (514, 30241),

Gene: Geodirt_30 Start: 24421, Stop: 29247, Start Num: 11
Candidate Starts for Geodirt_30:
(Start: 11 @24421 has 74 MA's), (26, 24595), (28, 24619), (57, 24757), (67, 24796), (69, 24802), (72, 24814), (76, 24832), (79, 24844), (80, 24871), (84, 24889), (104, 25000), (116, 25120), (117, 25141), (120, 25201), (122, 25234), (125, 25276), (128, 25312), (132, 25348), (134, 25363), (135, 25366), (142, 25477), (143, 25513), (145, 25564), (148, 25606), (150, 25636), (154, 25687), (157, 25720), (158, 25753), (159, 25765), (167, 25846), (170, 25867), (173, 25879), (182, 25975), (183, 25990), (184, 26011), (185, 26062), (187, 26071), (192, 26149), (199, 26197), (200, 26206), (204, 26266), (210, 26311), (213, 26320), (221, 26347), (225, 26374), (227, 26395), (230, 26431), (237, 26497), (239, 26533), (244, 26620), (245, 26623), (259, 26701), (271, 26761), (280, 26833), (294, 26896), (300, 26929), (302, 26935), (304, 26944), (308, 26968), (314, 27031), (321, 27085), (327, 27148), (342, 27259), (348, 27286), (349, 27292), (359, 27394), (361, 27406), (366, 27460), (370, 27487), (375, 27514), (378, 27553), (380, 27577), (383, 27592), (385, 27619), (390, 27691), (391, 27700), (395, 27760), (398, 27805), (418, 28123), (419, 28129), (420, 28147), (427, 28243), (437, 28447), (449, 28591), (452, 28666), (454, 28678), (458, 28762), (494, 29101), (501, 29140), (502, 29146), (505, 29152), (509, 29179), (512, 29215), (514, 29227),

Gene: Gezellig_29 Start: 19524, Stop: 25055, Start Num: 1
Candidate Starts for Gezellig_29:
(Start: 1 @19524 has 33 MA's), (3, 19611), (4, 19698), (6, 19731), (7, 19755), (Start: 12 @19878 has 9 MA's), (13, 19899), (14, 19905), (15, 19929), (19, 19959), (25, 19998), (32, 20082), (40, 20118), (43, 20142), (48, 20181), (101, 20571), (117, 20739), (120, 20799), (125, 20871), (126, 20883), (129, 20919), (131, 20943), (139, 21042), (140, 21045), (142, 21075), (144, 21150), (145, 21162), (148, 21204), (150, 21234), (154, 21285), (166, 21426), (167, 21444), (168, 21456), (170, 21465), (181, 21567), (183, 21588), (184, 21609), (185, 21660), (186, 21663), (187, 21669), (192, 21747), (196, 21777), (199, 21795), (204, 21864), (207, 21897), (209, 21903), (211, 21912), (214, 21918), (225, 21972), (228, 22017), (231, 22044), (232, 22053), (234, 22074), (239, 22131), (241, 22167), (249, 22248), (251, 22251), (256, 22320), (263, 22392), (274, 22488), (282, 22554), (283, 22557), (289, 22581), (294, 22608), (295, 22611), (296, 22614), (297, 22620), (305, 22689), (307, 22698), (311, 22743), (312, 22752), (323, 22830), (328, 22884), (335, 22938), (341, 22995), (351, 23037), (355, 23073), (359, 23136), (365, 23187), (377, 23298), (381, 23337), (388, 23418), (401, 23592), (402, 23595), (405, 23628), (416, 23835), (418, 23844), (419, 23850), (435, 24162), (448, 24369), (454, 24507), (465, 24657), (472, 24768), (481, 24813), (482, 24822), (483, 24828), (486, 24864), (498, 24957), (501, 24969), (508, 24999), (510, 25032), (513, 25044),

Gene: Gustavo_32 Start: 23650, Stop: 28665, Start Num: 11
Candidate Starts for Gustavo_32:
(Start: 11 @23650 has 74 MA's), (17, 23737), (21, 23770), (26, 23824), (28, 23848), (31, 23890), (33, 23908), (37, 23923), (44, 23995), (48, 24022), (53, 24097), (55, 24106), (62, 24163), (63, 24181), (64, 24187), (67, 24205), (73, 24232), (104, 24439), (106, 24451), (109, 24499), (120, 24640), (122, 24673), (125, 24715), (132, 24787), (134, 24802), (135, 24805), (142, 24916), (143, 24952), (145, 25003), (148, 25045), (150, 25075), (152, 25105), (157, 25159), (158, 25192), (167, 25285), (173, 25318), (174, 25321), (178, 25378), (182, 25414), (183, 25429), (184, 25450), (185, 25501), (199, 25636), (200, 25645), (207, 25738), (209, 25744), (210, 25750), (213, 25759), (218, 25771), (220, 25783), (223, 25795), (225, 25813), (230, 25870), (239, 25972), (245, 26062), (251, 26092), (259,

26140), (262, 26146), (279, 26269), (280, 26272), (294, 26335), (298, 26347), (300, 26368), (302, 26374), (308, 26407), (314, 26470), (321, 26524), (342, 26698), (348, 26725), (349, 26731), (359, 26833), (366, 26899), (383, 27031), (385, 27058), (391, 27139), (395, 27199), (398, 27244), (416, 27550), (418, 27559), (421, 27586), (425, 27655), (431, 27784), (437, 27883), (449, 28027), (452, 28096), (453, 28102), (454, 28108), (458, 28183), (461, 28213), (471, 28318), (472, 28351), (483, 28411), (486, 28447), (489, 28492), (494, 28519), (501, 28558), (502, 28564), (505, 28570), (509, 28597), (512, 28633), (514, 28645),

Gene: Halo3_30 Start: 19817, Stop: 25348, Start Num: 1
Candidate Starts for Halo3_30:
(Start: 1 @19817 has 33 MA's), (3, 19904), (4, 19991), (6, 20024), (7, 20048), (Start: 12 @20171 has 9 MA's), (13, 20192), (14, 20198), (15, 20222), (19, 20252), (25, 20291), (32, 20375), (40, 20411), (43, 20435), (48, 20474), (101, 20864), (117, 21032), (120, 21092), (125, 21164), (126, 21176), (129, 21212), (131, 21236), (139, 21335), (140, 21338), (142, 21368), (144, 21443), (145, 21455), (148, 21497), (150, 21527), (154, 21578), (166, 21719), (167, 21737), (168, 21749), (170, 21758), (181, 21860), (183, 21881), (184, 21902), (185, 21953), (186, 21956), (187, 21962), (192, 22040), (196, 22070), (199, 22088), (204, 22157), (207, 22190), (209, 22196), (211, 22205), (214, 22211), (225, 22265), (228, 22310), (231, 22337), (232, 22346), (234, 22367), (239, 22424), (241, 22460), (249, 22541), (251, 22544), (256, 22613), (263, 22685), (274, 22781), (282, 22847), (283, 22850), (289, 22874), (294, 22901), (295, 22904), (296, 22907), (297, 22913), (305, 22982), (307, 22991), (311, 23036), (312, 23045), (323, 23123), (328, 23177), (335, 23231), (341, 23288), (351, 23330), (355, 23366), (359, 23429), (365, 23480), (377, 23591), (381, 23630), (388, 23711), (401, 23885), (402, 23888), (405, 23921), (416, 24128), (418, 24137), (419, 24143), (435, 24455), (448, 24662), (454, 24800), (465, 24950), (472, 25061), (481, 25106), (482, 25115), (483, 25121), (486, 25157), (498, 25250), (501, 25262), (508, 25292), (510, 25325), (513, 25337),

Gene: Hans_33 Start: 23262, Stop: 28151, Start Num: 12
Candidate Starts for Hans_33:
(Start: 12 @23262 has 9 MA's), (21, 23382), (26, 23436), (28, 23460), (37, 23535), (38, 23538), (48, 23634), (53, 23709), (54, 23715), (56, 23721), (59, 23745), (61, 23754), (70, 23814), (71, 23820), (74, 23829), (79, 23859), (86, 23916), (93, 23955), (95, 23964), (104, 24027), (105, 24030), (111, 24105), (112, 24114), (122, 24249), (123, 24258), (125, 24291), (127, 24315), (135, 24381), (137, 24444), (143, 24528), (144, 24567), (145, 24579), (149, 24627), (150, 24651), (154, 24702), (157, 24735), (161, 24786), (164, 24816), (168, 24873), (171, 24885), (174, 24897), (179, 24972), (184, 25026), (186, 25080), (189, 25113), (198, 25200), (199, 25212), (200, 25221), (204, 25281), (205, 25293), (207, 25314), (209, 25320), (210, 25326), (211, 25329), (212, 25332), (220, 25359), (221, 25362), (223, 25371), (224, 25383), (225, 25389), (228, 25434), (232, 25470), (233, 25473), (235, 25494), (243, 25611), (251, 25668), (266, 25755), (275, 25821), (298, 25878), (299, 25881), (302, 25905), (313, 25995), (319, 26043), (335, 26172), (345, 26241), (346, 26250), (350, 26271), (353, 26289), (355, 26307), (370, 26463), (371, 26466), (383, 26571), (391, 26679), (395, 26739), (397, 26769), (403, 26850), (417, 27081), (418, 27087), (422, 27135), (423, 27150), (426, 27216), (432, 27348), (438, 27477), (439, 27516), (468, 27843), (475, 27939), (490, 28062), (497, 28104), (499, 28116),

Gene: Inspectinfecti_32 Start: 23624, Stop: 28513, Start Num: 12
Candidate Starts for Inspectinfecti_32:
(Start: 12 @23624 has 9 MA's), (21, 23744), (26, 23798), (28, 23822), (37, 23897), (38, 23900), (48, 23996), (53, 24071), (54, 24077), (56, 24083), (59, 24107), (61, 24116), (70, 24176), (71, 24182), (74, 24191), (79, 24221), (86, 24278), (93, 24317), (95, 24326), (104, 24389), (105, 24392), (111, 24467), (112, 24476), (122, 24611), (123, 24620), (125, 24653), (127, 24677), (135, 24743), (137, 24806), (143, 24890), (144, 24929), (145, 24941), (149, 24989), (150, 25013), (154, 25064), (157, 25097), (161, 25148), (164, 25178), (168, 25235), (171, 25247), (174, 25259), (179, 25334), (184, 25388), (186, 25442), (187, 25448), (189, 25475), (192, 25526), (198, 25562), (199, 25574), (200, 25583), (204, 25643), (205, 25655), (209, 25682), (210, 25688), (211, 25691), (212, 25694), (220, 25721),

(221, 25724), (223, 25733), (224, 25745), (225, 25751), (228, 25796), (232, 25832), (233, 25835), (235, 25856), (243, 25973), (251, 26030), (266, 26117), (275, 26183), (298, 26240), (299, 26243), (302, 26267), (313, 26357), (319, 26405), (335, 26534), (345, 26603), (346, 26612), (350, 26633), (353, 26651), (355, 26669), (370, 26825), (371, 26828), (383, 26933), (391, 27041), (395, 27101), (397, 27131), (403, 27212), (417, 27443), (418, 27449), (422, 27497), (423, 27512), (426, 27578), (432, 27710), (438, 27839), (439, 27878), (468, 28205), (475, 28301), (490, 28424), (497, 28466), (499, 28478),

Gene: JKSyngboy_30 Start: 24222, Stop: 29240, Start Num: 11
Candidate Starts for JKSyngboy_30:
(Start: 11 @24222 has 74 MA's), (16, 24297), (26, 24396), (28, 24420), (31, 24462), (33, 24480), (37, 24495), (44, 24567), (48, 24594), (55, 24678), (63, 24753), (64, 24759), (67, 24777), (104, 25011), (109, 25071), (120, 25212), (122, 25245), (125, 25287), (132, 25359), (134, 25374), (135, 25377), (142, 25488), (143, 25524), (145, 25575), (148, 25617), (150, 25647), (157, 25731), (158, 25764), (159, 25776), (167, 25857), (173, 25890), (174, 25893), (180, 25977), (182, 25986), (183, 26001), (184, 26022), (185, 26073), (192, 26160), (199, 26208), (200, 26217), (207, 26310), (209, 26316), (210, 26322), (213, 26331), (218, 26343), (220, 26355), (223, 26367), (225, 26385), (230, 26442), (239, 26544), (242, 26586), (245, 26634), (251, 26664), (259, 26712), (262, 26718), (274, 26793), (280, 26844), (281, 26850), (294, 26907), (298, 26919), (300, 26940), (302, 26946), (308, 26979), (309, 26985), (314, 27042), (321, 27096), (342, 27270), (348, 27297), (349, 27303), (359, 27405), (366, 27471), (378, 27564), (385, 27630), (390, 27702), (391, 27711), (395, 27771), (398, 27816), (416, 28119), (418, 28128), (419, 28134), (421, 28155), (427, 28254), (431, 28359), (437, 28458), (449, 28602), (452, 28671), (453, 28677), (454, 28683), (458, 28758), (461, 28788), (472, 28926), (483, 28986), (486, 29022), (489, 29067), (494, 29094), (501, 29133), (502, 29139), (505, 29145), (509, 29172), (512, 29208), (514, 29220),

Gene: Jabberwocky_31 Start: 25577, Stop: 30391, Start Num: 11
Candidate Starts for Jabberwocky_31:
(Start: 11 @25577 has 74 MA's), (26, 25751), (28, 25775), (57, 25913), (69, 25958), (72, 25970), (76, 25988), (79, 26000), (80, 26027), (84, 26045), (87, 26057), (104, 26156), (116, 26276), (117, 26297), (120, 26357), (122, 26390), (125, 26432), (128, 26468), (132, 26504), (134, 26519), (135, 26522), (142, 26633), (143, 26669), (145, 26720), (148, 26762), (150, 26792), (154, 26843), (157, 26876), (158, 26909), (159, 26921), (167, 27002), (170, 27023), (173, 27035), (182, 27131), (183, 27146), (184, 27167), (185, 27218), (187, 27227), (192, 27305), (199, 27353), (200, 27362), (204, 27422), (210, 27467), (213, 27476), (221, 27503), (225, 27530), (227, 27551), (230, 27587), (237, 27653), (239, 27689), (244, 27776), (245, 27779), (249, 27806), (259, 27857), (262, 27863), (280, 27989), (302, 28091), (308, 28124), (314, 28187), (321, 28241), (327, 28304), (342, 28415), (348, 28442), (349, 28448), (359, 28550), (366, 28616), (370, 28643), (375, 28670), (378, 28709), (380, 28733), (385, 28775), (390, 28847), (391, 28856), (395, 28916), (398, 28961), (418, 29276), (419, 29282), (420, 29300), (427, 29396), (431, 29501), (437, 29600), (449, 29744), (452, 29819), (454, 29831), (458, 29906), (494, 30245), (501, 30284), (502, 30290), (505, 30296), (509, 30323), (512, 30359), (514, 30371),

Gene: Jambalaya_29 Start: 19171, Stop: 24702, Start Num: 1
Candidate Starts for Jambalaya_29:
(Start: 1 @19171 has 33 MA's), (3, 19258), (4, 19345), (6, 19378), (7, 19402), (Start: 12 @19525 has 9 MA's), (13, 19546), (14, 19552), (15, 19576), (19, 19606), (25, 19645), (32, 19729), (40, 19765), (43, 19789), (48, 19828), (101, 20218), (117, 20386), (120, 20446), (125, 20518), (126, 20530), (129, 20566), (131, 20590), (139, 20689), (140, 20692), (142, 20722), (144, 20797), (145, 20809), (148, 20851), (150, 20881), (154, 20932), (166, 21073), (167, 21091), (168, 21103), (170, 21112), (181, 21214), (183, 21235), (184, 21256), (185, 21307), (186, 21310), (187, 21316), (192, 21394), (196, 21424), (199, 21442), (204, 21511), (207, 21544), (209, 21550), (211, 21559), (214, 21565), (225, 21619), (228, 21664), (231, 21691), (232, 21700), (234, 21721), (239, 21778), (241, 21814), (249,

21895), (251, 21898), (256, 21967), (263, 22039), (274, 22135), (282, 22201), (283, 22204), (289, 22228), (294, 22255), (295, 22258), (296, 22261), (297, 22267), (305, 22336), (307, 22345), (311, 22390), (312, 22399), (323, 22477), (328, 22531), (335, 22585), (341, 22642), (351, 22684), (355, 22720), (359, 22783), (365, 22834), (377, 22945), (381, 22984), (388, 23065), (401, 23239), (402, 23242), (405, 23275), (416, 23482), (418, 23491), (419, 23497), (435, 23809), (448, 24016), (454, 24154), (465, 24304), (472, 24415), (481, 24460), (482, 24469), (486, 24511), (498, 24604), (501, 24616), (508, 24646), (510, 24679), (513, 24691),

Gene: JohnPork_29 Start: 19434, Stop: 24956, Start Num: 1
Candidate Starts for JohnPork_29:
(Start: 1 @19434 has 33 MA's), (3, 19521), (4, 19608), (6, 19641), (7, 19665), (Start: 12 @19788 has 9 MA's), (13, 19809), (14, 19815), (15, 19839), (19, 19869), (25, 19908), (32, 19992), (40, 20028), (43, 20052), (48, 20091), (101, 20481), (117, 20649), (120, 20709), (125, 20781), (126, 20793), (129, 20829), (131, 20853), (139, 20952), (140, 20955), (142, 20985), (144, 21060), (145, 21072), (148, 21114), (150, 21144), (154, 21195), (166, 21336), (167, 21354), (168, 21366), (170, 21375), (181, 21477), (183, 21498), (184, 21519), (185, 21570), (186, 21573), (192, 21657), (196, 21687), (199, 21705), (204, 21774), (207, 21807), (209, 21813), (211, 21822), (214, 21828), (225, 21882), (231, 21954), (232, 21963), (234, 21984), (239, 22041), (241, 22077), (249, 22158), (251, 22161), (256, 22230), (274, 22398), (282, 22464), (283, 22467), (289, 22491), (294, 22518), (295, 22521), (296, 22524), (297, 22530), (305, 22599), (307, 22608), (311, 22653), (312, 22662), (323, 22740), (328, 22794), (335, 22848), (341, 22905), (351, 22947), (355, 22983), (359, 23046), (365, 23097), (377, 23208), (381, 23247), (388, 23328), (401, 23502), (402, 23505), (405, 23538), (416, 23745), (418, 23754), (419, 23760), (421, 23781), (435, 24075), (448, 24282), (454, 24408), (465, 24558), (472, 24669), (481, 24714), (482, 24723), (483, 24729), (486, 24765), (498, 24858), (501, 24870), (508, 24900), (510, 24933), (513, 24945),

Gene: Kamashten_32 Start: 25026, Stop: 29843, Start Num: 11
Candidate Starts for Kamashten_32:
(Start: 11 @25026 has 74 MA's), (26, 25200), (28, 25224), (57, 25362), (69, 25407), (72, 25419), (76, 25437), (79, 25449), (80, 25476), (84, 25494), (87, 25506), (104, 25605), (116, 25725), (117, 25746), (120, 25806), (122, 25839), (125, 25881), (132, 25953), (134, 25968), (135, 25971), (142, 26082), (143, 26118), (145, 26169), (148, 26211), (150, 26241), (154, 26292), (157, 26325), (158, 26358), (159, 26370), (167, 26451), (170, 26472), (173, 26484), (182, 26580), (183, 26595), (184, 26616), (185, 26667), (187, 26676), (192, 26754), (199, 26802), (200, 26811), (204, 26871), (210, 26916), (213, 26925), (221, 26952), (225, 26979), (227, 27000), (230, 27036), (237, 27102), (239, 27138), (244, 27225), (245, 27228), (246, 27237), (249, 27255), (259, 27306), (262, 27312), (280, 27438), (298, 27513), (302, 27540), (308, 27573), (314, 27636), (321, 27690), (327, 27753), (342, 27864), (348, 27891), (349, 27897), (359, 27999), (361, 28011), (366, 28065), (370, 28092), (375, 28119), (378, 28158), (380, 28182), (385, 28224), (390, 28296), (391, 28305), (395, 28365), (398, 28410), (418, 28728), (419, 28734), (420, 28752), (427, 28848), (431, 28953), (437, 29052), (449, 29196), (452, 29271), (454, 29283), (458, 29358), (476, 29553), (494, 29697), (501, 29736), (502, 29742), (505, 29748), (509, 29775), (512, 29811), (514, 29823),

Gene: Keitabear_33 Start: 26382, Stop: 31208, Start Num: 11
Candidate Starts for Keitabear_33:
(Start: 11 @26382 has 74 MA's), (26, 26556), (28, 26580), (57, 26718), (69, 26763), (72, 26775), (76, 26793), (79, 26805), (80, 26832), (84, 26850), (87, 26862), (104, 26961), (116, 27081), (117, 27102), (120, 27162), (122, 27195), (125, 27237), (128, 27273), (132, 27309), (134, 27324), (135, 27327), (142, 27438), (143, 27474), (145, 27525), (148, 27567), (150, 27597), (154, 27648), (157, 27681), (158, 27714), (159, 27726), (167, 27807), (170, 27828), (173, 27840), (182, 27936), (183, 27951), (184, 27972), (185, 28023), (187, 28032), (192, 28110), (199, 28158), (200, 28167), (204, 28227), (210, 28272), (213, 28281), (221, 28308), (225, 28335), (227, 28356), (230, 28392), (237, 28458), (239, 28494), (244, 28581), (245, 28584), (246, 28593), (249, 28611), (259, 28662), (262, 28668),

(280, 28794), (302, 28896), (308, 28929), (314, 28992), (321, 29046), (327, 29109), (342, 29220), (348, 29247), (349, 29253), (359, 29355), (366, 29421), (370, 29448), (375, 29475), (378, 29514), (380, 29538), (385, 29580), (390, 29652), (395, 29721), (398, 29766), (418, 30084), (419, 30090), (420, 30108), (427, 30204), (437, 30408), (449, 30552), (452, 30627), (454, 30639), (458, 30723), (494, 31062), (501, 31101), (502, 31107), (505, 31113), (509, 31140), (512, 31176), (514, 31188),

Gene: Kewpiedoll_32 Start: 24214, Stop: 29250, Start Num: 11
Candidate Starts for Kewpiedoll_32:
(Start: 11 @24214 has 74 MA's), (26, 24388), (28, 24412), (30, 24421), (31, 24454), (33, 24472), (37, 24487), (48, 24586), (53, 24661), (54, 24667), (55, 24670), (62, 24727), (63, 24745), (65, 24754), (67, 24769), (77, 24817), (94, 24934), (98, 24952), (99, 24964), (104, 25003), (117, 25144), (120, 25204), (122, 25237), (125, 25279), (132, 25351), (134, 25366), (135, 25369), (142, 25480), (143, 25516), (145, 25567), (148, 25609), (150, 25639), (154, 25690), (157, 25723), (158, 25756), (159, 25768), (167, 25849), (170, 25870), (173, 25882), (182, 25978), (183, 25993), (184, 26014), (185, 26065), (187, 26074), (192, 26152), (199, 26200), (200, 26209), (204, 26269), (210, 26314), (213, 26323), (221, 26350), (225, 26377), (227, 26398), (230, 26434), (237, 26500), (239, 26536), (244, 26623), (245, 26626), (259, 26704), (271, 26764), (280, 26836), (283, 26854), (294, 26899), (298, 26911), (300, 26932), (302, 26938), (304, 26947), (308, 26971), (314, 27034), (321, 27088), (327, 27151), (342, 27262), (348, 27289), (349, 27295), (359, 27397), (361, 27409), (366, 27463), (370, 27490), (375, 27517), (378, 27556), (383, 27595), (385, 27622), (390, 27694), (391, 27703), (395, 27763), (398, 27808), (413, 27997), (418, 28126), (419, 28132), (420, 28150), (427, 28246), (431, 28351), (437, 28450), (449, 28594), (452, 28669), (454, 28681), (458, 28765), (494, 29104), (501, 29143), (502, 29149), (505, 29155), (509, 29182), (512, 29218), (514, 29230),

Gene: KimmyK_31 Start: 20106, Stop: 25637, Start Num: 1
Candidate Starts for KimmyK_31:
(Start: 1 @20106 has 33 MA's), (3, 20193), (4, 20280), (6, 20313), (7, 20337), (Start: 12 @20460 has 9 MA's), (13, 20481), (14, 20487), (15, 20511), (19, 20541), (25, 20580), (32, 20664), (40, 20700), (43, 20724), (48, 20763), (101, 21153), (117, 21321), (120, 21381), (125, 21453), (126, 21465), (129, 21501), (131, 21525), (139, 21624), (140, 21627), (142, 21657), (144, 21732), (145, 21744), (148, 21786), (150, 21816), (154, 21867), (166, 22008), (167, 22026), (168, 22038), (170, 22047), (181, 22149), (183, 22170), (184, 22191), (185, 22242), (186, 22245), (187, 22251), (192, 22329), (196, 22359), (199, 22377), (204, 22446), (207, 22479), (209, 22485), (211, 22494), (214, 22500), (225, 22554), (228, 22599), (231, 22626), (232, 22635), (234, 22656), (239, 22713), (241, 22749), (249, 22830), (251, 22833), (256, 22902), (263, 22974), (274, 23070), (282, 23136), (283, 23139), (289, 23163), (294, 23190), (295, 23193), (296, 23196), (297, 23202), (305, 23271), (307, 23280), (311, 23325), (312, 23334), (323, 23412), (328, 23466), (335, 23520), (341, 23577), (351, 23619), (355, 23655), (359, 23718), (365, 23769), (377, 23880), (381, 23919), (388, 24000), (401, 24174), (402, 24177), (405, 24210), (416, 24417), (418, 24426), (419, 24432), (435, 24744), (448, 24951), (454, 25089), (465, 25239), (472, 25350), (481, 25395), (482, 25404), (483, 25410), (486, 25446), (498, 25539), (501, 25551), (508, 25581), (510, 25614), (513, 25626),

Gene: Kroos_33 Start: 24403, Stop: 29418, Start Num: 11
Candidate Starts for Kroos_33:
(Start: 11 @24403 has 74 MA's), (16, 24478), (21, 24523), (26, 24577), (28, 24601), (31, 24643), (33, 24661), (37, 24676), (44, 24748), (48, 24775), (53, 24850), (55, 24859), (61, 24895), (62, 24916), (63, 24934), (64, 24940), (67, 24958), (73, 24985), (104, 25192), (106, 25204), (109, 25252), (120, 25393), (122, 25426), (125, 25468), (132, 25540), (134, 25555), (135, 25558), (142, 25669), (143, 25705), (145, 25756), (148, 25798), (150, 25828), (154, 25879), (157, 25912), (158, 25945), (159, 25957), (167, 26038), (173, 26071), (174, 26074), (178, 26131), (182, 26167), (183, 26182), (184, 26203), (185, 26254), (199, 26389), (204, 26458), (209, 26497), (210, 26503), (213, 26512), (221, 26539), (225, 26566), (227, 26587), (230, 26623), (232, 26647), (233, 26650), (236, 26686), (239, 26725), (240, 26743), (242, 26767), (245, 26815), (251, 26845), (259, 26893), (262, 26899), (279, 27022),

(280, 27025), (281, 27031), (294, 27088), (298, 27100), (300, 27121), (302, 27127), (308, 27160), (309, 27166), (314, 27223), (321, 27277), (327, 27340), (342, 27451), (348, 27478), (349, 27484), (359, 27586), (366, 27652), (383, 27784), (385, 27811), (391, 27892), (395, 27952), (398, 27997), (416, 28303), (418, 28312), (421, 28339), (425, 28408), (431, 28537), (437, 28636), (449, 28780), (452, 28849), (453, 28855), (454, 28861), (458, 28936), (461, 28966), (472, 29104), (483, 29164), (486, 29200), (489, 29245), (494, 29272), (501, 29311), (502, 29317), (505, 29323), (509, 29350), (512, 29386), (514, 29398),

Gene: Kwekel_30 Start: 21376, Stop: 26505, Start Num: 11
Candidate Starts for Kwekel_30:
(Start: 11 @21376 has 74 MA's), (21, 21496), (26, 21550), (29, 21583), (35, 21640), (37, 21649), (38, 21652), (45, 21733), (48, 21748), (50, 21784), (53, 21823), (54, 21829), (56, 21835), (61, 21868), (66, 21910), (68, 21919), (70, 21928), (71, 21934), (83, 22012), (86, 22030), (93, 22069), (104, 22141), (122, 22363), (125, 22405), (132, 22477), (135, 22495), (139, 22573), (142, 22606), (143, 22642), (145, 22693), (150, 22765), (151, 22789), (152, 22795), (154, 22816), (157, 22849), (161, 22900), (163, 22930), (170, 22996), (176, 23041), (181, 23098), (184, 23140), (186, 23194), (189, 23227), (195, 23305), (203, 23392), (207, 23428), (209, 23434), (219, 23464), (220, 23473), (225, 23503), (227, 23524), (231, 23575), (235, 23608), (236, 23623), (248, 23782), (260, 23857), (261, 23860), (267, 23887), (276, 23962), (277, 23965), (278, 23983), (287, 24010), (294, 24049), (302, 24088), (308, 24121), (315, 24196), (316, 24205), (317, 24214), (318, 24220), (324, 24262), (325, 24271), (329, 24304), (330, 24316), (333, 24337), (334, 24349), (337, 24382), (340, 24403), (357, 24535), (363, 24589), (386, 24796), (389, 24835), (394, 24910), (405, 25048), (408, 25066), (411, 25144), (421, 25333), (423, 25363), (428, 25534), (433, 25561), (443, 25768), (444, 25771), (446, 25789), (463, 26038), (467, 26068), (478, 26197), (496, 26356), (504, 26398), (506, 26416), (509, 26431), (511, 26470),

Gene: Kwobi_34 Start: 24389, Stop: 29404, Start Num: 11
Candidate Starts for Kwobi_34:
(Start: 11 @24389 has 74 MA's), (17, 24476), (21, 24509), (26, 24563), (28, 24587), (31, 24629), (33, 24647), (37, 24662), (44, 24734), (48, 24761), (53, 24836), (55, 24845), (62, 24902), (63, 24920), (64, 24926), (104, 25178), (109, 25238), (120, 25379), (122, 25412), (125, 25454), (132, 25526), (134, 25541), (135, 25544), (142, 25655), (143, 25691), (145, 25742), (148, 25784), (150, 25814), (152, 25844), (157, 25898), (158, 25931), (167, 26024), (173, 26057), (174, 26060), (178, 26117), (182, 26153), (183, 26168), (184, 26189), (185, 26240), (199, 26375), (200, 26384), (207, 26477), (209, 26483), (210, 26489), (213, 26498), (220, 26522), (223, 26534), (225, 26552), (230, 26609), (239, 26711), (245, 26801), (251, 26831), (259, 26879), (262, 26885), (279, 27008), (280, 27011), (281, 27017), (294, 27074), (298, 27086), (300, 27107), (302, 27113), (308, 27146), (314, 27209), (321, 27263), (327, 27326), (342, 27437), (348, 27464), (349, 27470), (359, 27572), (366, 27638), (383, 27770), (385, 27797), (391, 27878), (395, 27938), (398, 27983), (416, 28289), (418, 28298), (421, 28325), (425, 28394), (431, 28523), (437, 28622), (449, 28766), (452, 28835), (453, 28841), (454, 28847), (458, 28922), (461, 28952), (472, 29090), (483, 29150), (486, 29186), (489, 29231), (494, 29258), (501, 29297), (502, 29303), (505, 29309), (509, 29336), (512, 29372), (514, 29384),

Gene: Lennon_33 Start: 26184, Stop: 30995, Start Num: 11
Candidate Starts for Lennon_33:
(Start: 11 @26184 has 74 MA's), (26, 26358), (28, 26382), (57, 26520), (67, 26559), (69, 26565), (72, 26577), (76, 26595), (79, 26607), (80, 26634), (84, 26652), (87, 26664), (104, 26763), (116, 26883), (117, 26904), (120, 26964), (122, 26997), (125, 27039), (128, 27075), (132, 27111), (134, 27126), (135, 27129), (142, 27240), (143, 27276), (145, 27327), (148, 27369), (150, 27399), (154, 27450), (157, 27483), (158, 27516), (159, 27528), (167, 27609), (170, 27630), (173, 27642), (182, 27738), (183, 27753), (184, 27774), (185, 27825), (187, 27834), (192, 27912), (199, 27960), (200, 27969), (204, 28029), (209, 28068), (210, 28074), (213, 28083), (221, 28110), (225, 28137), (227, 28158), (230, 28194), (237, 28260), (239, 28296), (244, 28383), (245, 28386), (249, 28413), (259, 28464),

(262, 28470), (280, 28596), (302, 28698), (308, 28731), (314, 28794), (321, 28848), (327, 28911), (342, 29022), (348, 29049), (349, 29055), (359, 29157), (361, 29169), (366, 29223), (370, 29250), (375, 29277), (378, 29316), (380, 29340), (385, 29382), (390, 29454), (391, 29463), (395, 29523), (398, 29568), (418, 29883), (419, 29889), (420, 29907), (427, 30003), (431, 30108), (437, 30207), (449, 30351), (452, 30414), (454, 30426), (458, 30510), (494, 30849), (501, 30888), (502, 30894), (505, 30900), (509, 30927), (512, 30963), (514, 30975),

Gene: Leonard_31 Start: 23260, Stop: 28149, Start Num: 12
Candidate Starts for Leonard_31:
(Start: 12 @23260 has 9 MA's), (21, 23380), (26, 23434), (28, 23458), (37, 23533), (38, 23536), (48, 23632), (53, 23707), (54, 23713), (56, 23719), (59, 23743), (61, 23752), (70, 23812), (71, 23818), (74, 23827), (79, 23857), (86, 23914), (93, 23953), (95, 23962), (104, 24025), (105, 24028), (111, 24103), (112, 24112), (122, 24247), (123, 24256), (125, 24289), (127, 24313), (135, 24379), (137, 24442), (143, 24526), (144, 24565), (145, 24577), (149, 24625), (150, 24649), (154, 24700), (157, 24733), (161, 24784), (164, 24814), (168, 24871), (171, 24883), (174, 24895), (179, 24970), (184, 25024), (186, 25078), (187, 25084), (189, 25111), (198, 25198), (199, 25210), (200, 25219), (204, 25279), (205, 25291), (207, 25312), (209, 25318), (210, 25324), (211, 25327), (220, 25357), (221, 25360), (223, 25369), (224, 25381), (225, 25387), (228, 25432), (232, 25468), (233, 25471), (235, 25492), (243, 25609), (251, 25666), (266, 25753), (275, 25819), (298, 25876), (299, 25879), (302, 25903), (313, 25993), (319, 26041), (335, 26170), (345, 26239), (350, 26269), (353, 26287), (370, 26461), (371, 26464), (383, 26569), (390, 26668), (391, 26677), (395, 26737), (397, 26767), (403, 26848), (417, 27079), (418, 27085), (423, 27148), (432, 27346), (438, 27475), (439, 27514), (462, 27796), (468, 27841), (470, 27868), (475, 27937), (490, 28060), (497, 28102), (499, 28114),

Gene: LilHam_30 Start: 22983, Stop: 28007, Start Num: 11
Candidate Starts for LilHam_30:
(Start: 11 @22983 has 74 MA's), (17, 23070), (21, 23103), (26, 23157), (28, 23181), (31, 23223), (33, 23241), (37, 23256), (44, 23328), (48, 23355), (53, 23430), (55, 23439), (62, 23496), (63, 23514), (64, 23520), (104, 23772), (109, 23832), (120, 23973), (122, 24006), (125, 24048), (132, 24120), (134, 24135), (135, 24138), (142, 24249), (143, 24285), (145, 24336), (148, 24378), (150, 24408), (154, 24459), (157, 24492), (158, 24525), (159, 24537), (167, 24618), (173, 24651), (174, 24654), (178, 24711), (182, 24747), (183, 24762), (184, 24783), (185, 24834), (199, 24969), (200, 24978), (207, 25071), (209, 25077), (210, 25083), (213, 25092), (218, 25104), (220, 25116), (223, 25128), (225, 25146), (230, 25203), (239, 25305), (240, 25323), (242, 25347), (245, 25395), (251, 25425), (259, 25473), (262, 25479), (279, 25602), (280, 25605), (281, 25611), (294, 25668), (298, 25680), (300, 25701), (302, 25707), (308, 25740), (314, 25803), (321, 25857), (342, 26031), (348, 26058), (349, 26064), (359, 26166), (366, 26232), (385, 26391), (391, 26472), (395, 26532), (398, 26577), (416, 26889), (418, 26898), (421, 26925), (425, 26994), (431, 27123), (437, 27222), (449, 27366), (452, 27438), (453, 27444), (454, 27450), (458, 27525), (461, 27555), (472, 27693), (483, 27753), (486, 27789), (489, 27834), (494, 27861), (501, 27900), (502, 27906), (505, 27912), (509, 27939), (512, 27975), (514, 27987),

Gene: Lilbeanie_28 Start: 18351, Stop: 23423, Start Num: 11
Candidate Starts for Lilbeanie_28:
(Start: 11 @18351 has 74 MA's), (16, 18426), (23, 18492), (26, 18525), (28, 18549), (30, 18558), (41, 18633), (46, 18663), (51, 18693), (75, 18813), (93, 18930), (97, 18948), (104, 19002), (105, 19005), (107, 19035), (112, 19089), (118, 19140), (121, 19221), (122, 19224), (133, 19347), (135, 19359), (142, 19470), (143, 19506), (144, 19545), (146, 19569), (148, 19599), (150, 19629), (157, 19713), (158, 19749), (167, 19839), (172, 19869), (175, 19902), (176, 19905), (178, 19932), (184, 20004), (185, 20055), (186, 20058), (187, 20064), (189, 20091), (190, 20112), (192, 20142), (194, 20166), (197, 20175), (207, 20292), (209, 20298), (217, 20322), (219, 20328), (223, 20349), (225, 20367), (230, 20424), (236, 20487), (239, 20526), (252, 20649), (275, 20754), (292, 20823), (307, 20898), (321, 21006), (322, 21009), (331, 21066), (336, 21108), (338, 21123), (347, 21162), (351, 21171),

(357, 21231), (360, 21255), (365, 21303), (369, 21327), (383, 21408), (385, 21435), (390, 21507), (391, 21516), (394, 21567), (395, 21576), (398, 21621), (418, 21915), (421, 21942), (445, 22335), (450, 22422), (456, 22542), (479, 22785), (484, 22827), (485, 22830), (491, 22911), (503, 22974), (510, 23034), (515, 23079), (516, 23091), (517, 23118), (518, 23181), (519, 23202), (520, 23241), (521, 23265), (522, 23301), (523, 23316), (524, 23349), (525, 23376), (526, 23388),

Gene: Love_36 Start: 25948, Stop: 30777, Start Num: 11
Candidate Starts for Love_36:
(Start: 11 @25948 has 74 MA's), (26, 26122), (28, 26146), (57, 26284), (69, 26329), (72, 26341), (76, 26359), (79, 26371), (80, 26398), (84, 26416), (87, 26428), (104, 26527), (116, 26647), (117, 26668), (120, 26728), (122, 26761), (125, 26803), (128, 26839), (132, 26875), (134, 26890), (135, 26893), (142, 27004), (143, 27040), (145, 27091), (148, 27133), (150, 27163), (154, 27214), (157, 27247), (159, 27292), (167, 27373), (170, 27394), (173, 27406), (182, 27502), (183, 27517), (184, 27538), (185, 27589), (187, 27598), (199, 27724), (200, 27733), (204, 27793), (210, 27838), (213, 27847), (221, 27874), (225, 27901), (227, 27922), (230, 27958), (237, 28024), (239, 28060), (244, 28147), (245, 28150), (246, 28159), (249, 28177), (259, 28228), (262, 28234), (280, 28360), (298, 28435), (302, 28462), (308, 28495), (314, 28558), (321, 28612), (327, 28675), (342, 28786), (348, 28813), (349, 28819), (359, 28921), (361, 28933), (366, 28987), (370, 29014), (375, 29041), (378, 29080), (385, 29146), (390, 29218), (391, 29227), (395, 29287), (398, 29332), (418, 29647), (419, 29653), (420, 29671), (427, 29767), (431, 29872), (437, 29971), (449, 30115), (452, 30196), (454, 30208), (458, 30292), (469, 30382), (494, 30631), (501, 30670), (502, 30676), (505, 30682), (509, 30709), (512, 30745), (514, 30757),

Gene: McCrothy_33 Start: 25756, Stop: 30585, Start Num: 11
Candidate Starts for McCrothy_33:
(Start: 11 @25756 has 74 MA's), (26, 25930), (28, 25954), (57, 26092), (69, 26137), (72, 26149), (76, 26167), (79, 26179), (80, 26206), (84, 26224), (87, 26236), (104, 26335), (116, 26455), (117, 26476), (120, 26536), (122, 26569), (125, 26611), (128, 26647), (132, 26683), (134, 26698), (135, 26701), (142, 26812), (143, 26848), (145, 26899), (148, 26941), (150, 26971), (154, 27022), (157, 27055), (159, 27100), (167, 27181), (170, 27202), (173, 27214), (182, 27310), (183, 27325), (184, 27346), (185, 27397), (187, 27406), (199, 27532), (200, 27541), (204, 27601), (210, 27646), (213, 27655), (221, 27682), (225, 27709), (227, 27730), (230, 27766), (237, 27832), (239, 27868), (244, 27955), (245, 27958), (246, 27967), (249, 27985), (259, 28036), (262, 28042), (280, 28168), (298, 28243), (302, 28270), (308, 28303), (314, 28366), (321, 28420), (327, 28483), (342, 28594), (348, 28621), (349, 28627), (359, 28729), (361, 28741), (366, 28795), (370, 28822), (375, 28849), (378, 28888), (385, 28954), (390, 29026), (391, 29035), (395, 29095), (398, 29140), (418, 29455), (419, 29461), (420, 29479), (427, 29575), (431, 29680), (437, 29779), (449, 29923), (452, 30004), (454, 30016), (458, 30100), (469, 30190), (494, 30439), (501, 30478), (502, 30484), (505, 30490), (509, 30517), (512, 30553), (514, 30565),

Gene: McKinley_35 Start: 25980, Stop: 30803, Start Num: 11
Candidate Starts for McKinley_35:
(Start: 11 @25980 has 74 MA's), (26, 26154), (28, 26178), (57, 26316), (69, 26361), (72, 26373), (76, 26391), (79, 26403), (80, 26430), (84, 26448), (87, 26460), (104, 26559), (116, 26679), (117, 26700), (120, 26760), (122, 26793), (125, 26835), (128, 26871), (132, 26907), (134, 26922), (135, 26925), (142, 27036), (143, 27072), (145, 27123), (148, 27165), (150, 27195), (154, 27246), (157, 27279), (158, 27312), (159, 27324), (167, 27405), (170, 27426), (173, 27438), (182, 27534), (183, 27549), (184, 27570), (185, 27621), (187, 27630), (192, 27708), (199, 27756), (200, 27765), (204, 27825), (209, 27864), (210, 27870), (213, 27879), (221, 27906), (225, 27933), (227, 27954), (230, 27990), (237, 28056), (238, 28077), (239, 28092), (244, 28179), (245, 28182), (259, 28260), (271, 28320), (280, 28392), (302, 28494), (308, 28527), (314, 28590), (321, 28644), (327, 28707), (342, 28818), (348, 28845), (349, 28851), (359, 28953), (361, 28965), (366, 29019), (370, 29046), (375, 29073), (378, 29112), (380, 29136), (383, 29151), (385, 29178), (390, 29250), (391, 29259), (395, 29319),

(398, 29364), (413, 29553), (418, 29682), (419, 29688), (420, 29706), (427, 29805), (431, 29910), (436, 29982), (437, 30009), (449, 30153), (452, 30222), (454, 30234), (458, 30318), (494, 30657), (501, 30696), (502, 30702), (505, 30708), (509, 30735), (512, 30771), (514, 30783),

Gene: MelBins_32 Start: 23406, Stop: 28298, Start Num: 12
Candidate Starts for MelBins_32:
(Start: 12 @23406 has 9 MA's), (21, 23526), (26, 23580), (28, 23604), (37, 23679), (38, 23682), (48, 23778), (53, 23853), (54, 23859), (56, 23865), (59, 23889), (61, 23898), (70, 23958), (71, 23964), (74, 23973), (79, 24003), (86, 24060), (93, 24099), (95, 24108), (96, 24111), (104, 24171), (105, 24174), (111, 24249), (112, 24258), (122, 24393), (123, 24402), (125, 24435), (127, 24459), (135, 24525), (137, 24588), (143, 24672), (144, 24711), (145, 24723), (149, 24771), (150, 24795), (157, 24879), (161, 24930), (164, 24960), (168, 25017), (171, 25029), (179, 25116), (184, 25170), (186, 25224), (187, 25230), (189, 25257), (198, 25344), (199, 25356), (200, 25365), (204, 25425), (205, 25437), (207, 25458), (209, 25464), (210, 25470), (211, 25473), (212, 25476), (220, 25503), (221, 25506), (223, 25515), (224, 25527), (225, 25533), (228, 25578), (232, 25614), (233, 25617), (235, 25638), (243, 25755), (251, 25812), (266, 25899), (275, 25965), (298, 26022), (299, 26025), (302, 26049), (313, 26139), (319, 26187), (335, 26316), (345, 26385), (350, 26415), (353, 26433), (355, 26451), (370, 26607), (371, 26610), (383, 26715), (390, 26814), (391, 26823), (395, 26883), (397, 26913), (403, 26994), (417, 27225), (418, 27231), (423, 27294), (429, 27471), (432, 27492), (438, 27621), (439, 27660), (468, 27990), (475, 28086), (477, 28095), (490, 28209), (497, 28251), (499, 28263),

Gene: MoontowerMania_32 Start: 24791, Stop: 29617, Start Num: 11
Candidate Starts for MoontowerMania_32:
(Start: 11 @24791 has 74 MA's), (26, 24965), (28, 24989), (57, 25127), (69, 25172), (72, 25184), (76, 25202), (79, 25214), (84, 25259), (104, 25370), (116, 25490), (117, 25511), (120, 25571), (122, 25604), (125, 25646), (132, 25718), (134, 25733), (135, 25736), (142, 25847), (143, 25883), (145, 25934), (148, 25976), (150, 26006), (154, 26057), (157, 26090), (158, 26123), (159, 26135), (167, 26216), (170, 26237), (173, 26249), (182, 26345), (183, 26360), (184, 26381), (185, 26432), (187, 26441), (192, 26519), (199, 26567), (200, 26576), (204, 26636), (210, 26681), (213, 26690), (221, 26717), (225, 26744), (227, 26765), (230, 26801), (237, 26867), (239, 26903), (244, 26990), (245, 26993), (246, 27002), (249, 27020), (259, 27071), (262, 27077), (280, 27203), (298, 27278), (302, 27305), (308, 27338), (314, 27401), (321, 27455), (327, 27518), (342, 27629), (348, 27656), (349, 27662), (359, 27764), (361, 27776), (366, 27830), (370, 27857), (375, 27884), (378, 27923), (380, 27947), (383, 27962), (385, 27989), (390, 28061), (391, 28070), (395, 28130), (398, 28175), (418, 28493), (419, 28499), (420, 28517), (427, 28613), (431, 28718), (437, 28817), (449, 28961), (452, 29036), (454, 29048), (458, 29132), (494, 29471), (501, 29510), (502, 29516), (505, 29522), (509, 29549), (512, 29585), (514, 29597),

Gene: Mutzi_31 Start: 19848, Stop: 25364, Start Num: 1
Candidate Starts for Mutzi_31:
(Start: 1 @19848 has 33 MA's), (3, 19935), (4, 20022), (6, 20055), (7, 20079), (Start: 12 @20202 has 9 MA's), (13, 20223), (14, 20229), (15, 20253), (19, 20283), (25, 20322), (32, 20406), (40, 20442), (43, 20466), (48, 20505), (85, 20793), (101, 20895), (109, 20982), (117, 21063), (120, 21123), (125, 21195), (129, 21243), (131, 21267), (139, 21366), (140, 21369), (142, 21399), (144, 21474), (145, 21486), (148, 21528), (150, 21558), (154, 21609), (157, 21642), (165, 21747), (166, 21750), (167, 21768), (168, 21780), (170, 21789), (181, 21891), (183, 21912), (184, 21933), (185, 21984), (186, 21987), (192, 22071), (194, 22095), (196, 22101), (199, 22119), (204, 22188), (207, 22221), (209, 22227), (211, 22236), (214, 22242), (225, 22296), (231, 22368), (232, 22377), (234, 22398), (239, 22455), (241, 22491), (249, 22572), (251, 22575), (255, 22629), (256, 22644), (263, 22716), (274, 22812), (282, 22878), (283, 22881), (289, 22905), (294, 22932), (295, 22935), (296, 22938), (305, 23013), (306, 23019), (307, 23022), (311, 23067), (312, 23076), (323, 23154), (328, 23208), (335, 23262), (341, 23319), (351, 23361), (359, 23460), (365, 23511), (377, 23622), (381, 23661), (388, 23742), (392, 23784), (401, 23916), (402, 23919), (404, 23949), (405, 23952), (407, 23967), (416,

24159), (418, 24168), (419, 24174), (435, 24486), (447, 24681), (448, 24693), (465, 24966), (481, 25122), (482, 25131), (483, 25137), (486, 25173), (498, 25266), (501, 25278), (508, 25308), (510, 25341), (513, 25353),

Gene: Natkenzie_33 Start: 24850, Stop: 29775, Start Num: 11
Candidate Starts for Natkenzie_33:
(Start: 11 @24850 has 74 MA's), (21, 24970), (22, 24982), (26, 25024), (28, 25048), (36, 25114), (37, 25123), (42, 25168), (44, 25195), (53, 25297), (55, 25306), (58, 25324), (68, 25390), (71, 25405), (74, 25414), (81, 25477), (83, 25483), (88, 25510), (93, 25540), (95, 25549), (102, 25597), (104, 25612), (106, 25624), (112, 25711), (115, 25723), (122, 25846), (124, 25870), (125, 25888), (132, 25960), (133, 25966), (135, 25978), (142, 26089), (143, 26125), (144, 26164), (145, 26176), (148, 26218), (150, 26248), (153, 26290), (154, 26299), (155, 26302), (157, 26332), (158, 26365), (167, 26458), (174, 26494), (178, 26551), (181, 26581), (184, 26623), (186, 26677), (187, 26683), (189, 26710), (192, 26761), (198, 26797), (199, 26809), (200, 26818), (204, 26878), (205, 26890), (207, 26911), (209, 26917), (221, 26959), (222, 26965), (224, 26980), (225, 26986), (228, 27031), (232, 27067), (233, 27070), (239, 27145), (243, 27208), (251, 27265), (265, 27346), (272, 27397), (291, 27454), (298, 27475), (299, 27478), (302, 27502), (319, 27640), (323, 27661), (350, 27868), (353, 27886), (356, 27943), (366, 28033), (372, 28096), (383, 28177), (385, 28204), (390, 28276), (391, 28285), (395, 28345), (403, 28456), (416, 28687), (418, 28696), (421, 28723), (424, 28765), (434, 28984), (435, 29011), (438, 29083), (439, 29122), (455, 29329), (460, 29401), (468, 29467), (483, 29602), (487, 29665), (488, 29668), (490, 29686), (492, 29701), (497, 29728), (499, 29740),

Gene: Nordenberg_27 Start: 24150, Stop: 28973, Start Num: 11
Candidate Starts for Nordenberg_27:
(Start: 11 @24150 has 74 MA's), (26, 24324), (28, 24348), (57, 24486), (69, 24531), (72, 24543), (76, 24561), (79, 24573), (80, 24600), (84, 24618), (87, 24630), (104, 24729), (116, 24849), (117, 24870), (120, 24930), (122, 24963), (125, 25005), (128, 25041), (132, 25077), (134, 25092), (135, 25095), (142, 25206), (143, 25242), (145, 25293), (148, 25335), (150, 25365), (154, 25416), (157, 25449), (159, 25494), (167, 25575), (173, 25608), (182, 25704), (183, 25719), (184, 25740), (185, 25791), (187, 25800), (199, 25926), (200, 25935), (204, 25995), (209, 26034), (210, 26040), (213, 26049), (221, 26076), (225, 26103), (227, 26124), (230, 26160), (237, 26226), (239, 26262), (244, 26349), (245, 26352), (246, 26361), (249, 26379), (259, 26430), (262, 26436), (280, 26562), (298, 26637), (302, 26664), (308, 26697), (314, 26760), (321, 26814), (327, 26877), (342, 26988), (348, 27015), (349, 27021), (359, 27123), (361, 27135), (366, 27189), (370, 27216), (375, 27243), (378, 27282), (385, 27348), (390, 27420), (391, 27429), (395, 27489), (398, 27534), (418, 27852), (419, 27858), (420, 27876), (427, 27969), (431, 28074), (437, 28173), (449, 28317), (452, 28392), (454, 28404), (458, 28488), (494, 28827), (501, 28866), (502, 28872), (505, 28878), (509, 28905), (512, 28941), (514, 28953),

Gene: Nubi_29 Start: 19412, Stop: 24925, Start Num: 1
Candidate Starts for Nubi_29:
(Start: 1 @19412 has 33 MA's), (3, 19499), (4, 19586), (6, 19619), (7, 19643), (Start: 12 @19766 has 9 MA's), (13, 19787), (14, 19793), (15, 19817), (19, 19847), (25, 19886), (32, 19970), (40, 20006), (43, 20030), (48, 20069), (101, 20459), (117, 20627), (120, 20687), (125, 20759), (126, 20771), (129, 20807), (131, 20831), (139, 20930), (140, 20933), (142, 20963), (144, 21038), (145, 21050), (148, 21092), (150, 21122), (154, 21173), (166, 21314), (167, 21332), (168, 21344), (170, 21353), (181, 21455), (183, 21476), (184, 21497), (185, 21548), (186, 21551), (192, 21635), (196, 21665), (199, 21683), (204, 21752), (207, 21785), (209, 21791), (211, 21800), (214, 21806), (225, 21860), (231, 21932), (234, 21962), (239, 22019), (241, 22055), (249, 22136), (251, 22139), (256, 22208), (274, 22376), (282, 22442), (283, 22445), (289, 22469), (294, 22496), (295, 22499), (296, 22502), (307, 22586), (311, 22631), (312, 22640), (319, 22697), (323, 22718), (328, 22772), (335, 22826), (341, 22883), (351, 22925), (355, 22961), (358, 23006), (359, 23024), (365, 23075), (377, 23186), (381, 23225), (388, 23306), (401, 23480), (402, 23483), (405, 23516), (416, 23720), (418, 23729), (419,

23735), (435, 24044), (448, 24251), (454, 24377), (465, 24527), (472, 24638), (481, 24683), (482, 24692), (483, 24698), (486, 24734), (498, 24827), (501, 24839), (508, 24869), (510, 24902), (513, 24914),

Gene: Paries_35 Start: 25616, Stop: 30439, Start Num: 11
Candidate Starts for Paries_35:
(Start: 11 @25616 has 74 MA's), (26, 25790), (28, 25814), (57, 25952), (66, 25985), (69, 25997), (72, 26009), (76, 26027), (79, 26039), (84, 26084), (104, 26195), (116, 26315), (117, 26336), (120, 26396), (122, 26429), (125, 26471), (128, 26507), (132, 26543), (134, 26558), (135, 26561), (142, 26672), (143, 26708), (145, 26759), (148, 26801), (150, 26831), (154, 26882), (157, 26915), (158, 26948), (159, 26960), (167, 27041), (170, 27062), (173, 27074), (182, 27170), (183, 27185), (184, 27206), (185, 27257), (187, 27266), (192, 27344), (199, 27392), (200, 27401), (204, 27461), (210, 27506), (213, 27515), (221, 27542), (225, 27569), (227, 27590), (230, 27626), (237, 27692), (239, 27728), (244, 27815), (245, 27818), (246, 27827), (249, 27845), (259, 27896), (262, 27902), (280, 28028), (298, 28103), (302, 28130), (308, 28163), (314, 28226), (321, 28280), (327, 28343), (342, 28454), (348, 28481), (349, 28487), (359, 28589), (361, 28601), (366, 28655), (370, 28682), (375, 28709), (378, 28748), (385, 28814), (390, 28886), (391, 28895), (395, 28955), (398, 29000), (418, 29315), (419, 29321), (420, 29339), (427, 29435), (431, 29540), (437, 29639), (449, 29783), (452, 29858), (454, 29870), (458, 29954), (494, 30293), (501, 30332), (502, 30338), (505, 30344), (509, 30371), (512, 30407), (514, 30419),

Gene: Phauci_24 Start: 19849, Stop: 24738, Start Num: 12
Candidate Starts for Phauci_24:
(Start: 12 @19849 has 9 MA's), (21, 19969), (26, 20023), (28, 20047), (37, 20122), (38, 20125), (48, 20221), (53, 20296), (54, 20302), (56, 20308), (59, 20332), (61, 20341), (70, 20401), (71, 20407), (74, 20416), (79, 20446), (86, 20503), (93, 20542), (95, 20551), (104, 20614), (105, 20617), (111, 20692), (112, 20701), (122, 20836), (123, 20845), (125, 20878), (127, 20902), (135, 20968), (137, 21031), (143, 21115), (144, 21154), (145, 21166), (149, 21214), (150, 21238), (154, 21289), (157, 21322), (161, 21373), (164, 21403), (168, 21460), (171, 21472), (174, 21484), (179, 21559), (184, 21613), (186, 21667), (189, 21700), (198, 21787), (199, 21799), (200, 21808), (204, 21868), (205, 21880), (207, 21901), (209, 21907), (210, 21913), (211, 21916), (212, 21919), (220, 21946), (221, 21949), (223, 21958), (224, 21970), (225, 21976), (228, 22021), (232, 22057), (233, 22060), (235, 22081), (243, 22198), (251, 22255), (266, 22342), (275, 22408), (298, 22465), (299, 22468), (302, 22492), (313, 22582), (319, 22630), (335, 22759), (345, 22828), (346, 22837), (350, 22858), (353, 22876), (355, 22894), (370, 23050), (371, 23053), (383, 23158), (391, 23266), (395, 23326), (397, 23356), (403, 23437), (417, 23668), (418, 23674), (422, 23722), (423, 23737), (426, 23803), (432, 23935), (438, 24064), (439, 24103), (468, 24430), (475, 24526), (490, 24649), (497, 24691), (499, 24703),

Gene: Phinally_31 Start: 23257, Stop: 28146, Start Num: 12
Candidate Starts for Phinally_31:
(Start: 12 @23257 has 9 MA's), (21, 23377), (26, 23431), (28, 23455), (37, 23530), (38, 23533), (48, 23629), (53, 23704), (54, 23710), (56, 23716), (59, 23740), (61, 23749), (70, 23809), (71, 23815), (74, 23824), (79, 23854), (86, 23911), (93, 23950), (95, 23959), (104, 24022), (105, 24025), (111, 24100), (112, 24109), (122, 24244), (123, 24253), (125, 24286), (127, 24310), (135, 24376), (137, 24439), (143, 24523), (144, 24562), (145, 24574), (149, 24622), (150, 24646), (154, 24697), (157, 24730), (161, 24781), (164, 24811), (168, 24868), (171, 24880), (174, 24892), (179, 24967), (184, 25021), (186, 25075), (187, 25081), (189, 25108), (198, 25195), (199, 25207), (200, 25216), (204, 25276), (205, 25288), (207, 25309), (209, 25315), (210, 25321), (211, 25324), (220, 25354), (221, 25357), (223, 25366), (224, 25378), (225, 25384), (228, 25429), (232, 25465), (233, 25468), (235, 25489), (243, 25606), (251, 25663), (266, 25750), (275, 25816), (298, 25873), (299, 25876), (302, 25900), (313, 25990), (319, 26038), (335, 26167), (345, 26236), (350, 26266), (353, 26284), (370, 26458), (371, 26461), (383, 26566), (390, 26665), (391, 26674), (395, 26734), (397, 26764), (403, 26845), (417, 27076), (418, 27082), (423, 27145), (432, 27343), (438, 27472), (439, 27511), (462, 27793),

(468, 27838), (470, 27865), (475, 27934), (490, 28057), (497, 28099), (499, 28111),

Gene: Phlop_29 Start: 19476, Stop: 25007, Start Num: 1
Candidate Starts for Phlop_29:
(Start: 1 @19476 has 33 MA's), (3, 19563), (4, 19650), (6, 19683), (7, 19707), (Start: 12 @19830 has 9 MA's), (13, 19851), (14, 19857), (15, 19881), (19, 19911), (25, 19950), (32, 20034), (40, 20070), (43, 20094), (48, 20133), (101, 20523), (117, 20691), (120, 20751), (125, 20823), (126, 20835), (129, 20871), (131, 20895), (139, 20994), (140, 20997), (142, 21027), (144, 21102), (145, 21114), (148, 21156), (150, 21186), (154, 21237), (166, 21378), (167, 21396), (168, 21408), (170, 21417), (181, 21519), (183, 21540), (184, 21561), (185, 21612), (186, 21615), (187, 21621), (192, 21699), (196, 21729), (199, 21747), (204, 21816), (207, 21849), (209, 21855), (211, 21864), (214, 21870), (225, 21924), (228, 21969), (231, 21996), (232, 22005), (234, 22026), (239, 22083), (241, 22119), (249, 22200), (251, 22203), (256, 22272), (263, 22344), (274, 22440), (282, 22506), (283, 22509), (289, 22533), (294, 22560), (295, 22563), (296, 22566), (297, 22572), (305, 22641), (307, 22650), (311, 22695), (312, 22704), (323, 22782), (328, 22836), (335, 22890), (341, 22947), (351, 22989), (355, 23025), (359, 23088), (365, 23139), (377, 23250), (381, 23289), (388, 23370), (401, 23544), (402, 23547), (405, 23580), (416, 23787), (418, 23796), (419, 23802), (435, 24114), (448, 24321), (454, 24459), (465, 24609), (472, 24720), (481, 24765), (482, 24774), (483, 24780), (486, 24816), (498, 24909), (501, 24921), (508, 24951), (510, 24984), (513, 24996),

Gene: PinkCoffee_31 Start: 20115, Stop: 25646, Start Num: 1
Candidate Starts for PinkCoffee_31:
(Start: 1 @20115 has 33 MA's), (3, 20202), (4, 20289), (6, 20322), (7, 20346), (Start: 12 @20469 has 9 MA's), (13, 20490), (14, 20496), (15, 20520), (19, 20550), (25, 20589), (32, 20673), (40, 20709), (43, 20733), (48, 20772), (101, 21162), (117, 21330), (120, 21390), (125, 21462), (126, 21474), (129, 21510), (131, 21534), (139, 21633), (140, 21636), (142, 21666), (144, 21741), (145, 21753), (148, 21795), (150, 21825), (154, 21876), (166, 22017), (167, 22035), (168, 22047), (170, 22056), (181, 22158), (183, 22179), (184, 22200), (185, 22251), (186, 22254), (187, 22260), (192, 22338), (196, 22368), (199, 22386), (204, 22455), (207, 22488), (209, 22494), (211, 22503), (214, 22509), (225, 22563), (228, 22608), (231, 22635), (232, 22644), (234, 22665), (239, 22722), (241, 22758), (249, 22839), (251, 22842), (256, 22911), (263, 22983), (274, 23079), (282, 23145), (283, 23148), (289, 23172), (294, 23199), (295, 23202), (296, 23205), (297, 23211), (305, 23280), (307, 23289), (311, 23334), (312, 23343), (323, 23421), (328, 23475), (335, 23529), (341, 23586), (351, 23628), (355, 23664), (359, 23727), (365, 23778), (377, 23889), (381, 23928), (388, 24009), (401, 24183), (402, 24186), (405, 24219), (416, 24426), (418, 24435), (419, 24441), (435, 24753), (448, 24960), (454, 25098), (465, 25248), (472, 25359), (481, 25404), (482, 25413), (486, 25455), (498, 25548), (501, 25560), (508, 25590), (510, 25623), (513, 25635),

Gene: Portcullis_29 Start: 19434, Stop: 24956, Start Num: 1
Candidate Starts for Portcullis_29:
(Start: 1 @19434 has 33 MA's), (3, 19521), (4, 19608), (6, 19641), (7, 19665), (Start: 12 @19788 has 9 MA's), (13, 19809), (14, 19815), (15, 19839), (19, 19869), (25, 19908), (32, 19992), (40, 20028), (43, 20052), (48, 20091), (101, 20481), (117, 20649), (120, 20709), (125, 20781), (126, 20793), (129, 20829), (131, 20853), (139, 20952), (140, 20955), (142, 20985), (144, 21060), (145, 21072), (148, 21114), (150, 21144), (154, 21195), (166, 21336), (167, 21354), (168, 21366), (170, 21375), (181, 21477), (183, 21498), (184, 21519), (185, 21570), (186, 21573), (192, 21657), (196, 21687), (199, 21705), (204, 21774), (207, 21807), (209, 21813), (211, 21822), (214, 21828), (225, 21882), (231, 21954), (232, 21963), (234, 21984), (239, 22041), (241, 22077), (249, 22158), (251, 22161), (256, 22230), (274, 22398), (282, 22464), (283, 22467), (289, 22491), (294, 22518), (295, 22521), (296, 22524), (297, 22530), (305, 22599), (307, 22608), (311, 22653), (312, 22662), (323, 22740), (328, 22794), (335, 22848), (341, 22905), (351, 22947), (355, 22983), (359, 23046), (365, 23097), (377, 23208), (381, 23247), (388, 23328), (401, 23502), (402, 23505), (405, 23538), (416, 23745), (418, 23754), (419, 23760), (421, 23781), (435, 24075), (448, 24282), (454, 24408), (465, 24558), (472,

24669), (481, 24714), (482, 24723), (483, 24729), (486, 24765), (498, 24858), (501, 24870), (508, 24900), (510, 24933), (513, 24945),

Gene: PullumCavea_29 Start: 19476, Stop: 25007, Start Num: 1
Candidate Starts for PullumCavea_29:
(Start: 1 @19476 has 33 MA's), (3, 19563), (4, 19650), (6, 19683), (7, 19707), (Start: 12 @19830 has 9 MA's), (13, 19851), (14, 19857), (15, 19881), (19, 19911), (25, 19950), (32, 20034), (40, 20070), (43, 20094), (48, 20133), (101, 20523), (117, 20691), (120, 20751), (125, 20823), (126, 20835), (129, 20871), (131, 20895), (139, 20994), (140, 20997), (142, 21027), (144, 21102), (145, 21114), (148, 21156), (150, 21186), (154, 21237), (166, 21378), (167, 21396), (168, 21408), (170, 21417), (181, 21519), (183, 21540), (184, 21561), (185, 21612), (186, 21615), (187, 21621), (192, 21699), (196, 21729), (199, 21747), (204, 21816), (207, 21849), (209, 21855), (211, 21864), (214, 21870), (225, 21924), (228, 21969), (231, 21996), (232, 22005), (234, 22026), (239, 22083), (241, 22119), (249, 22200), (251, 22203), (256, 22272), (263, 22344), (274, 22440), (282, 22506), (283, 22509), (289, 22533), (294, 22560), (295, 22563), (296, 22566), (297, 22572), (305, 22641), (307, 22650), (311, 22695), (312, 22704), (323, 22782), (328, 22836), (335, 22890), (341, 22947), (351, 22989), (355, 23025), (359, 23088), (365, 23139), (377, 23250), (381, 23289), (388, 23370), (401, 23544), (402, 23547), (405, 23580), (416, 23787), (418, 23796), (419, 23802), (435, 24114), (448, 24321), (454, 24459), (465, 24609), (472, 24720), (481, 24765), (482, 24774), (483, 24780), (486, 24816), (498, 24909), (501, 24921), (508, 24951), (510, 24984), (513, 24996),

Gene: Pumpkiney_34 Start: 22170, Stop: 27098, Start Num: 11
Candidate Starts for Pumpkiney_34:
(Start: 11 @22170 has 74 MA's), (21, 22290), (22, 22302), (26, 22344), (28, 22368), (30, 22377), (36, 22434), (37, 22443), (38, 22446), (44, 22515), (49, 22548), (53, 22617), (55, 22626), (58, 22644), (68, 22710), (71, 22725), (74, 22734), (81, 22797), (83, 22803), (88, 22830), (93, 22860), (95, 22869), (102, 22917), (104, 22932), (108, 22977), (115, 23043), (122, 23166), (124, 23190), (125, 23208), (126, 23220), (132, 23280), (135, 23298), (138, 23370), (142, 23409), (143, 23445), (144, 23484), (145, 23496), (148, 23538), (150, 23568), (157, 23652), (158, 23685), (167, 23778), (174, 23814), (178, 23871), (181, 23901), (184, 23943), (186, 23997), (189, 24030), (192, 24081), (199, 24129), (200, 24138), (204, 24198), (205, 24210), (207, 24231), (209, 24237), (221, 24279), (222, 24285), (224, 24300), (225, 24306), (232, 24387), (233, 24390), (235, 24411), (239, 24465), (243, 24528), (251, 24585), (266, 24672), (275, 24738), (298, 24795), (299, 24798), (302, 24822), (313, 24912), (319, 24960), (350, 25188), (353, 25206), (356, 25263), (366, 25353), (372, 25416), (383, 25497), (385, 25524), (390, 25596), (391, 25605), (395, 25665), (403, 25776), (416, 26007), (418, 26016), (421, 26043), (424, 26085), (434, 26304), (435, 26331), (438, 26403), (439, 26442), (455, 26649), (460, 26721), (468, 26790), (483, 26925), (487, 26988), (488, 26991), (490, 27009), (492, 27024), (497, 27051), (499, 27063),

Gene: Ribeye_33 Start: 24804, Stop: 29822, Start Num: 11
Candidate Starts for Ribeye_33:
(Start: 11 @24804 has 74 MA's), (16, 24879), (21, 24924), (26, 24978), (28, 25002), (31, 25044), (33, 25062), (37, 25077), (44, 25149), (48, 25176), (53, 25251), (55, 25260), (62, 25317), (63, 25335), (64, 25341), (67, 25359), (73, 25386), (98, 25542), (104, 25593), (106, 25605), (109, 25653), (120, 25794), (122, 25827), (125, 25869), (132, 25941), (134, 25956), (135, 25959), (142, 26070), (143, 26106), (145, 26157), (148, 26199), (150, 26229), (154, 26280), (157, 26313), (158, 26346), (159, 26358), (167, 26439), (173, 26472), (174, 26475), (178, 26532), (182, 26568), (183, 26583), (184, 26604), (185, 26655), (199, 26790), (204, 26859), (209, 26898), (210, 26904), (213, 26913), (221, 26940), (225, 26967), (227, 26988), (230, 27024), (232, 27048), (233, 27051), (236, 27087), (239, 27126), (245, 27216), (251, 27246), (259, 27294), (262, 27300), (279, 27423), (280, 27426), (281, 27432), (294, 27489), (298, 27501), (302, 27528), (308, 27561), (309, 27567), (314, 27624), (321, 27678), (327, 27741), (342, 27852), (348, 27879), (349, 27885), (359, 27987), (366, 28053), (383, 28185), (385, 28212), (391, 28293), (395, 28353), (398, 28398), (416, 28704), (418, 28713), (421, 28740),

(425, 28809), (437, 29037), (449, 29181), (452, 29250), (453, 29256), (454, 29262), (458, 29340), (461, 29370), (472, 29508), (483, 29568), (486, 29604), (489, 29649), (494, 29676), (501, 29715), (502, 29721), (505, 29727), (509, 29754), (512, 29790), (514, 29802),

Gene: RiverRaider_33 Start: 23248, Stop: 28107, Start Num: 11
Candidate Starts for RiverRaider_33:
(Start: 11 @23248 has 74 MA's), (17, 23335), (21, 23368), (26, 23422), (28, 23446), (30, 23455), (39, 23500), (57, 23584), (66, 23617), (69, 23629), (72, 23641), (76, 23659), (79, 23671), (84, 23716), (92, 23755), (104, 23827), (111, 23917), (115, 23938), (120, 24028), (122, 24061), (125, 24103), (132, 24175), (134, 24190), (135, 24193), (142, 24304), (143, 24340), (145, 24391), (148, 24433), (150, 24463), (154, 24514), (157, 24547), (158, 24580), (159, 24592), (167, 24673), (170, 24694), (173, 24706), (176, 24739), (182, 24802), (183, 24817), (184, 24838), (185, 24889), (187, 24898), (192, 24976), (199, 25024), (202, 25072), (206, 25120), (207, 25126), (209, 25132), (213, 25147), (216, 25153), (220, 25171), (222, 25180), (225, 25201), (227, 25222), (230, 25258), (232, 25282), (236, 25321), (244, 25447), (251, 25480), (259, 25528), (262, 25534), (271, 25588), (273, 25603), (275, 25621), (280, 25660), (298, 25735), (302, 25762), (304, 25771), (308, 25795), (314, 25858), (321, 25912), (348, 26113), (349, 26119), (359, 26221), (361, 26233), (366, 26287), (377, 26368), (379, 26383), (381, 26407), (387, 26488), (402, 26665), (404, 26695), (406, 26698), (415, 26830), (418, 26911), (419, 26917), (421, 26938), (423, 26974), (426, 27037), (435, 27226), (438, 27298), (439, 27337), (452, 27532), (454, 27544), (458, 27616), (469, 27706), (480, 27823), (483, 27844), (494, 27961), (502, 28006), (505, 28012), (512, 28075), (514, 28087),

Gene: RoadKill_28 Start: 20943, Stop: 26069, Start Num: 11
Candidate Starts for RoadKill_28:
(Start: 11 @20943 has 74 MA's), (26, 21117), (29, 21150), (35, 21207), (37, 21216), (38, 21219), (44, 21288), (45, 21300), (48, 21315), (50, 21351), (53, 21390), (54, 21396), (56, 21402), (61, 21435), (66, 21477), (68, 21486), (70, 21495), (71, 21501), (76, 21528), (83, 21579), (86, 21597), (102, 21693), (104, 21708), (108, 21753), (114, 21801), (122, 21930), (125, 21972), (132, 22044), (135, 22062), (139, 22140), (141, 22152), (142, 22173), (143, 22209), (144, 22248), (145, 22260), (150, 22332), (151, 22356), (152, 22362), (154, 22383), (156, 22404), (157, 22416), (161, 22467), (163, 22497), (170, 22563), (181, 22665), (184, 22707), (186, 22761), (188, 22791), (189, 22794), (195, 22872), (203, 22959), (207, 22995), (209, 23001), (220, 23040), (221, 23043), (224, 23064), (225, 23070), (227, 23091), (231, 23142), (235, 23175), (236, 23190), (238, 23214), (260, 23424), (261, 23427), (277, 23532), (278, 23550), (288, 23580), (299, 23631), (308, 23688), (315, 23763), (316, 23772), (317, 23781), (318, 23787), (325, 23838), (329, 23871), (330, 23883), (333, 23904), (334, 23916), (337, 23949), (340, 23970), (357, 24102), (363, 24156), (386, 24363), (394, 24477), (396, 24489), (405, 24615), (408, 24633), (411, 24711), (421, 24900), (423, 24930), (433, 25128), (443, 25335), (444, 25338), (446, 25356), (463, 25605), (466, 25623), (467, 25635), (478, 25761), (495, 25917), (496, 25920), (504, 25962), (506, 25980), (509, 25995), (511, 26034),

Gene: Rofo_33 Start: 25011, Stop: 29837, Start Num: 11
Candidate Starts for Rofo_33:
(Start: 11 @25011 has 74 MA's), (26, 25185), (28, 25209), (57, 25347), (66, 25380), (69, 25392), (72, 25404), (76, 25422), (79, 25434), (84, 25479), (104, 25590), (116, 25710), (117, 25731), (120, 25791), (122, 25824), (125, 25866), (128, 25902), (132, 25938), (134, 25953), (135, 25956), (142, 26067), (143, 26103), (145, 26154), (148, 26196), (150, 26226), (154, 26277), (157, 26310), (158, 26343), (159, 26355), (167, 26436), (170, 26457), (173, 26469), (182, 26565), (183, 26580), (184, 26601), (185, 26652), (187, 26661), (192, 26739), (199, 26787), (200, 26796), (204, 26856), (210, 26901), (213, 26910), (221, 26937), (225, 26964), (227, 26985), (230, 27021), (237, 27087), (239, 27123), (244, 27210), (245, 27213), (246, 27222), (249, 27240), (259, 27291), (262, 27297), (280, 27423), (298, 27498), (302, 27525), (308, 27558), (314, 27621), (321, 27675), (327, 27738), (342, 27849), (348, 27876), (349, 27882), (359, 27984), (361, 27996), (366, 28050), (370, 28077), (375, 28104), (378, 28143), (385, 28209), (390, 28281), (391, 28290), (395, 28350), (398, 28395), (418, 28713),

(419, 28719), (420, 28737), (427, 28833), (431, 28938), (437, 29037), (449, 29181), (452, 29256), (454, 29268), (458, 29352), (494, 29691), (501, 29730), (502, 29736), (505, 29742), (509, 29769), (512, 29805), (514, 29817),

Gene: RogerDodger_32 Start: 20284, Stop: 25797, Start Num: 1
Candidate Starts for RogerDodger_32:
(Start: 1 @20284 has 33 MA's), (3, 20371), (4, 20458), (6, 20491), (7, 20515), (Start: 12 @20638 has 9 MA's), (13, 20659), (14, 20665), (15, 20689), (19, 20719), (25, 20758), (32, 20842), (40, 20878), (43, 20902), (48, 20941), (101, 21331), (117, 21499), (120, 21559), (125, 21631), (126, 21643), (129, 21679), (131, 21703), (139, 21802), (140, 21805), (142, 21835), (144, 21910), (145, 21922), (148, 21964), (150, 21994), (154, 22045), (166, 22186), (167, 22204), (168, 22216), (170, 22225), (181, 22327), (183, 22348), (184, 22369), (185, 22420), (186, 22423), (187, 22429), (192, 22507), (196, 22537), (199, 22555), (204, 22624), (207, 22657), (209, 22663), (211, 22672), (214, 22678), (225, 22732), (228, 22777), (231, 22804), (232, 22813), (234, 22834), (239, 22891), (241, 22927), (249, 23008), (251, 23011), (256, 23080), (263, 23152), (274, 23248), (282, 23314), (283, 23317), (289, 23341), (294, 23368), (295, 23371), (296, 23374), (297, 23380), (305, 23449), (307, 23458), (311, 23503), (312, 23512), (323, 23590), (328, 23644), (335, 23698), (341, 23755), (351, 23797), (355, 23833), (359, 23896), (365, 23947), (374, 24031), (377, 24058), (381, 24097), (384, 24118), (388, 24178), (401, 24352), (402, 24355), (405, 24388), (416, 24595), (418, 24604), (419, 24610), (426, 24724), (430, 24844), (439, 25024), (454, 25249), (465, 25399), (472, 25510), (481, 25555), (482, 25564), (486, 25606), (500, 25705), (501, 25711), (508, 25741), (510, 25774), (513, 25786),

Gene: Salvador_29 Start: 19390, Stop: 24921, Start Num: 1
Candidate Starts for Salvador_29:
(Start: 1 @19390 has 33 MA's), (3, 19477), (4, 19564), (6, 19597), (7, 19621), (Start: 12 @19744 has 9 MA's), (13, 19765), (14, 19771), (15, 19795), (19, 19825), (25, 19864), (32, 19948), (40, 19984), (43, 20008), (48, 20047), (101, 20437), (117, 20605), (120, 20665), (125, 20737), (126, 20749), (129, 20785), (131, 20809), (139, 20908), (140, 20911), (142, 20941), (144, 21016), (145, 21028), (148, 21070), (150, 21100), (154, 21151), (166, 21292), (167, 21310), (168, 21322), (170, 21331), (181, 21433), (183, 21454), (184, 21475), (185, 21526), (186, 21529), (187, 21535), (192, 21613), (196, 21643), (199, 21661), (204, 21730), (207, 21763), (209, 21769), (211, 21778), (214, 21784), (225, 21838), (228, 21883), (231, 21910), (232, 21919), (234, 21940), (239, 21997), (241, 22033), (249, 22114), (251, 22117), (256, 22186), (263, 22258), (274, 22354), (282, 22420), (283, 22423), (289, 22447), (294, 22474), (295, 22477), (296, 22480), (297, 22486), (305, 22555), (307, 22564), (311, 22609), (312, 22618), (323, 22696), (328, 22750), (335, 22804), (341, 22861), (351, 22903), (355, 22939), (359, 23002), (365, 23053), (377, 23164), (381, 23203), (388, 23284), (401, 23458), (402, 23461), (405, 23494), (416, 23701), (418, 23710), (419, 23716), (435, 24028), (448, 24235), (454, 24373), (465, 24523), (472, 24634), (481, 24679), (482, 24688), (483, 24694), (486, 24730), (498, 24823), (501, 24835), (508, 24865), (510, 24898), (513, 24910),

Gene: Sampson_33 Start: 24795, Stop: 29720, Start Num: 11
Candidate Starts for Sampson_33:
(Start: 11 @24795 has 74 MA's), (21, 24915), (22, 24927), (26, 24969), (28, 24993), (36, 25059), (37, 25068), (42, 25113), (44, 25140), (53, 25242), (55, 25251), (58, 25269), (68, 25335), (71, 25350), (74, 25359), (81, 25422), (83, 25428), (88, 25455), (93, 25485), (95, 25494), (102, 25542), (104, 25557), (106, 25569), (112, 25656), (115, 25668), (122, 25791), (124, 25815), (125, 25833), (132, 25905), (133, 25911), (135, 25923), (142, 26034), (143, 26070), (144, 26109), (145, 26121), (148, 26163), (150, 26193), (153, 26235), (154, 26244), (155, 26247), (157, 26277), (158, 26310), (167, 26403), (174, 26439), (178, 26496), (181, 26526), (184, 26568), (186, 26622), (187, 26628), (189, 26655), (192, 26706), (198, 26742), (199, 26754), (200, 26763), (204, 26823), (205, 26835), (207, 26856), (209, 26862), (221, 26904), (222, 26910), (224, 26925), (225, 26931), (228, 26976), (232, 27012), (233, 27015), (239, 27090), (243, 27153), (251, 27210), (265, 27291), (272, 27342), (291, 27399), (298, 27420), (299, 27423), (302, 27447), (319, 27585), (323, 27606), (350, 27813), (353, 27831),

(356, 27888), (366, 27978), (372, 28041), (383, 28122), (385, 28149), (390, 28221), (391, 28230), (395, 28290), (403, 28401), (416, 28632), (418, 28641), (421, 28668), (424, 28710), (434, 28929), (435, 28956), (438, 29028), (439, 29067), (455, 29274), (460, 29346), (468, 29412), (483, 29547), (487, 29610), (488, 29613), (490, 29631), (492, 29646), (497, 29673), (499, 29685),

Gene: Sanjuju_31 Start: 25192, Stop: 30006, Start Num: 11
Candidate Starts for Sanjuju_31:
(Start: 11 @25192 has 74 MA's), (26, 25366), (28, 25390), (57, 25528), (69, 25573), (72, 25585), (76, 25603), (79, 25615), (80, 25642), (84, 25660), (87, 25672), (104, 25771), (116, 25891), (117, 25912), (120, 25972), (122, 26005), (125, 26047), (128, 26083), (132, 26119), (134, 26134), (135, 26137), (142, 26248), (143, 26284), (145, 26335), (148, 26377), (150, 26407), (154, 26458), (157, 26491), (158, 26524), (159, 26536), (167, 26617), (170, 26638), (173, 26650), (182, 26746), (183, 26761), (184, 26782), (185, 26833), (187, 26842), (192, 26920), (199, 26968), (200, 26977), (204, 27037), (210, 27082), (213, 27091), (221, 27118), (225, 27145), (227, 27166), (230, 27202), (237, 27268), (239, 27304), (244, 27391), (245, 27394), (249, 27421), (259, 27472), (262, 27478), (280, 27604), (302, 27706), (308, 27739), (314, 27802), (321, 27856), (327, 27919), (342, 28030), (348, 28057), (349, 28063), (359, 28165), (366, 28231), (370, 28258), (375, 28285), (378, 28324), (380, 28348), (385, 28390), (390, 28462), (391, 28471), (395, 28531), (398, 28576), (418, 28891), (419, 28897), (420, 28915), (427, 29011), (431, 29116), (437, 29215), (449, 29359), (452, 29434), (454, 29446), (458, 29521), (494, 29860), (501, 29899), (502, 29905), (505, 29911), (509, 29938), (512, 29974), (514, 29986),

Gene: Saronaya_32 Start: 23650, Stop: 28665, Start Num: 11
Candidate Starts for Saronaya_32:
(Start: 11 @23650 has 74 MA's), (17, 23737), (21, 23770), (26, 23824), (28, 23848), (31, 23890), (33, 23908), (37, 23923), (44, 23995), (48, 24022), (53, 24097), (55, 24106), (62, 24163), (63, 24181), (64, 24187), (67, 24205), (73, 24232), (104, 24439), (106, 24451), (109, 24499), (120, 24640), (122, 24673), (125, 24715), (132, 24787), (134, 24802), (135, 24805), (142, 24916), (143, 24952), (145, 25003), (148, 25045), (150, 25075), (152, 25105), (157, 25159), (158, 25192), (167, 25285), (173, 25318), (174, 25321), (178, 25378), (182, 25414), (183, 25429), (184, 25450), (185, 25501), (199, 25636), (200, 25645), (207, 25738), (209, 25744), (210, 25750), (213, 25759), (218, 25771), (220, 25783), (223, 25795), (225, 25813), (230, 25870), (239, 25972), (245, 26062), (251, 26092), (259, 26140), (262, 26146), (279, 26269), (280, 26272), (294, 26335), (298, 26347), (300, 26368), (302, 26374), (308, 26407), (314, 26470), (321, 26524), (342, 26698), (348, 26725), (349, 26731), (359, 26833), (366, 26899), (383, 27031), (385, 27058), (391, 27139), (395, 27199), (398, 27244), (416, 27550), (418, 27559), (421, 27586), (425, 27655), (431, 27784), (437, 27883), (449, 28027), (452, 28096), (453, 28102), (454, 28108), (458, 28183), (461, 28213), (471, 28318), (472, 28351), (483, 28411), (486, 28447), (489, 28492), (494, 28519), (501, 28558), (502, 28564), (505, 28570), (509, 28597), (512, 28633), (514, 28645),

Gene: Savbucketdawg_29 Start: 19171, Stop: 24702, Start Num: 1
Candidate Starts for Savbucketdawg_29:
(Start: 1 @19171 has 33 MA's), (3, 19258), (4, 19345), (6, 19378), (7, 19402), (Start: 12 @19525 has 9 MA's), (13, 19546), (14, 19552), (15, 19576), (19, 19606), (25, 19645), (32, 19729), (40, 19765), (43, 19789), (48, 19828), (101, 20218), (117, 20386), (120, 20446), (125, 20518), (126, 20530), (129, 20566), (131, 20590), (139, 20689), (140, 20692), (142, 20722), (144, 20797), (145, 20809), (148, 20851), (150, 20881), (154, 20932), (166, 21073), (167, 21091), (168, 21103), (170, 21112), (181, 21214), (183, 21235), (184, 21256), (185, 21307), (186, 21310), (187, 21316), (192, 21394), (196, 21424), (199, 21442), (204, 21511), (207, 21544), (209, 21550), (211, 21559), (214, 21565), (225, 21619), (228, 21664), (231, 21691), (232, 21700), (234, 21721), (239, 21778), (241, 21814), (249, 21895), (251, 21898), (256, 21967), (263, 22039), (274, 22135), (282, 22201), (283, 22204), (289, 22228), (294, 22255), (295, 22258), (296, 22261), (297, 22267), (305, 22336), (307, 22345), (311, 22390), (312, 22399), (323, 22477), (328, 22531), (335, 22585), (341, 22642), (351, 22684), (355,

22720), (359, 22783), (365, 22834), (377, 22945), (381, 22984), (388, 23065), (401, 23239), (402, 23242), (405, 23275), (416, 23482), (418, 23491), (419, 23497), (435, 23809), (448, 24016), (454, 24154), (465, 24304), (472, 24415), (481, 24460), (482, 24469), (486, 24511), (498, 24604), (501, 24616), (508, 24646), (510, 24679), (513, 24691),

Gene: SchottB_31 Start: 24662, Stop: 29680, Start Num: 11
Candidate Starts for SchottB_31:
(Start: 11 @24662 has 74 MA's), (17, 24749), (21, 24782), (26, 24836), (28, 24860), (31, 24902), (33, 24920), (37, 24935), (44, 25007), (48, 25034), (53, 25109), (55, 25118), (62, 25175), (63, 25193), (64, 25199), (104, 25451), (109, 25511), (120, 25652), (122, 25685), (125, 25727), (132, 25799), (134, 25814), (135, 25817), (142, 25928), (143, 25964), (145, 26015), (148, 26057), (150, 26087), (154, 26138), (157, 26171), (158, 26204), (159, 26216), (167, 26297), (173, 26330), (174, 26333), (178, 26390), (182, 26426), (183, 26441), (184, 26462), (185, 26513), (199, 26648), (200, 26657), (207, 26750), (209, 26756), (210, 26762), (213, 26771), (218, 26783), (220, 26795), (223, 26807), (225, 26825), (230, 26882), (239, 26984), (240, 27002), (242, 27026), (245, 27074), (251, 27104), (259, 27152), (262, 27158), (279, 27281), (280, 27284), (281, 27290), (294, 27347), (298, 27359), (300, 27380), (302, 27386), (308, 27419), (314, 27482), (321, 27536), (342, 27710), (348, 27737), (349, 27743), (359, 27845), (366, 27911), (385, 28070), (391, 28151), (395, 28211), (398, 28256), (416, 28562), (418, 28571), (421, 28598), (425, 28667), (431, 28796), (437, 28895), (449, 29039), (452, 29111), (453, 29117), (454, 29123), (458, 29198), (461, 29228), (472, 29366), (483, 29426), (486, 29462), (489, 29507), (494, 29534), (501, 29573), (502, 29579), (505, 29585), (509, 29612), (512, 29648), (514, 29660),

Gene: Scioto_33 Start: 24850, Stop: 29775, Start Num: 11
Candidate Starts for Scioto_33:
(Start: 11 @24850 has 74 MA's), (21, 24970), (22, 24982), (26, 25024), (28, 25048), (36, 25114), (37, 25123), (42, 25168), (44, 25195), (53, 25297), (55, 25306), (58, 25324), (68, 25390), (71, 25405), (74, 25414), (81, 25477), (83, 25483), (88, 25510), (93, 25540), (95, 25549), (102, 25597), (104, 25612), (106, 25624), (112, 25711), (115, 25723), (122, 25846), (124, 25870), (125, 25888), (132, 25960), (133, 25966), (135, 25978), (142, 26089), (143, 26125), (144, 26164), (145, 26176), (148, 26218), (150, 26248), (153, 26290), (154, 26299), (155, 26302), (157, 26332), (158, 26365), (167, 26458), (174, 26494), (178, 26551), (181, 26581), (184, 26623), (186, 26677), (187, 26683), (189, 26710), (192, 26761), (198, 26797), (199, 26809), (200, 26818), (204, 26878), (205, 26890), (207, 26911), (209, 26917), (221, 26959), (222, 26965), (224, 26980), (225, 26986), (228, 27031), (232, 27067), (233, 27070), (239, 27145), (243, 27208), (251, 27265), (265, 27346), (272, 27397), (291, 27454), (298, 27475), (299, 27478), (302, 27502), (319, 27640), (323, 27661), (350, 27868), (353, 27886), (356, 27943), (366, 28033), (372, 28096), (383, 28177), (385, 28204), (390, 28276), (391, 28285), (395, 28345), (403, 28456), (416, 28687), (418, 28696), (421, 28723), (424, 28765), (434, 28984), (435, 29011), (438, 29083), (439, 29122), (455, 29329), (460, 29401), (468, 29467), (483, 29602), (487, 29665), (488, 29668), (490, 29686), (492, 29701), (497, 29728), (499, 29740),

Gene: Sedona_33 Start: 26117, Stop: 30943, Start Num: 11
Candidate Starts for Sedona_33:
(Start: 11 @26117 has 74 MA's), (26, 26291), (28, 26315), (57, 26453), (69, 26498), (72, 26510), (76, 26528), (79, 26540), (80, 26567), (84, 26585), (87, 26597), (104, 26696), (116, 26816), (117, 26837), (120, 26897), (122, 26930), (125, 26972), (128, 27008), (132, 27044), (134, 27059), (135, 27062), (142, 27173), (143, 27209), (145, 27260), (148, 27302), (150, 27332), (154, 27383), (157, 27416), (158, 27449), (159, 27461), (167, 27542), (170, 27563), (173, 27575), (182, 27671), (183, 27686), (184, 27707), (185, 27758), (187, 27767), (192, 27845), (199, 27893), (200, 27902), (204, 27962), (210, 28007), (213, 28016), (221, 28043), (225, 28070), (227, 28091), (230, 28127), (237, 28193), (239, 28229), (244, 28316), (245, 28319), (246, 28328), (249, 28346), (259, 28397), (262, 28403), (280, 28529), (302, 28631), (308, 28664), (314, 28727), (321, 28781), (327, 28844), (342, 28955), (348, 28982), (349, 28988), (359, 29090), (366, 29156), (370, 29183), (375, 29210), (378, 29249),

(380, 29273), (385, 29315), (390, 29387), (395, 29456), (398, 29501), (418, 29819), (419, 29825), (420, 29843), (427, 29939), (437, 30143), (449, 30287), (452, 30362), (454, 30374), (458, 30458), (494, 30797), (501, 30836), (502, 30842), (505, 30848), (509, 30875), (512, 30911), (514, 30923),

Gene: Sendy_30 Start: 19614, Stop: 25127, Start Num: 1
Candidate Starts for Sendy_30:
(Start: 1 @19614 has 33 MA's), (3, 19701), (4, 19788), (6, 19821), (7, 19845), (Start: 12 @19968 has 9 MA's), (13, 19989), (14, 19995), (15, 20019), (19, 20049), (25, 20088), (32, 20172), (40, 20208), (43, 20232), (48, 20271), (101, 20661), (117, 20829), (120, 20889), (125, 20961), (126, 20973), (129, 21009), (131, 21033), (139, 21132), (140, 21135), (142, 21165), (144, 21240), (145, 21252), (148, 21294), (150, 21324), (154, 21375), (166, 21516), (167, 21534), (168, 21546), (170, 21555), (181, 21657), (183, 21678), (184, 21699), (185, 21750), (186, 21753), (192, 21837), (196, 21867), (199, 21885), (204, 21954), (207, 21987), (209, 21993), (211, 22002), (214, 22008), (225, 22062), (231, 22134), (232, 22143), (234, 22164), (239, 22221), (241, 22257), (249, 22338), (251, 22341), (256, 22410), (263, 22482), (274, 22578), (282, 22644), (283, 22647), (289, 22671), (294, 22698), (295, 22701), (296, 22704), (297, 22710), (305, 22779), (307, 22788), (311, 22833), (312, 22842), (323, 22920), (328, 22974), (335, 23028), (341, 23085), (351, 23127), (355, 23163), (359, 23226), (365, 23277), (377, 23388), (381, 23427), (388, 23508), (401, 23682), (402, 23685), (405, 23718), (407, 23733), (416, 23925), (418, 23934), (419, 23940), (421, 23961), (435, 24249), (448, 24456), (451, 24546), (465, 24729), (472, 24840), (481, 24885), (482, 24894), (483, 24900), (486, 24936), (498, 25029), (501, 25041), (508, 25071), (510, 25104), (513, 25116),

Gene: SharkTale_29 Start: 20194, Stop: 25731, Start Num: 1
Candidate Starts for SharkTale_29:
(Start: 1 @20194 has 33 MA's), (4, 20368), (6, 20401), (7, 20425), (Start: 12 @20548 has 9 MA's), (13, 20569), (14, 20575), (15, 20599), (19, 20629), (25, 20668), (40, 20788), (43, 20812), (48, 20851), (112, 21367), (117, 21409), (120, 21469), (125, 21541), (129, 21589), (136, 21643), (140, 21715), (142, 21745), (144, 21820), (145, 21832), (148, 21874), (150, 21904), (154, 21955), (166, 22096), (167, 22114), (168, 22126), (170, 22135), (181, 22237), (184, 22279), (185, 22330), (186, 22333), (192, 22417), (196, 22447), (199, 22465), (201, 22492), (204, 22534), (220, 22612), (221, 22615), (222, 22621), (225, 22642), (226, 22645), (228, 22687), (231, 22714), (233, 22726), (242, 22843), (249, 22918), (251, 22921), (254, 22969), (255, 22975), (274, 23158), (282, 23224), (283, 23227), (289, 23251), (295, 23281), (296, 23284), (297, 23290), (303, 23335), (305, 23359), (307, 23368), (311, 23413), (312, 23422), (314, 23434), (319, 23479), (320, 23482), (323, 23500), (332, 23575), (345, 23683), (351, 23710), (359, 23809), (365, 23860), (377, 23971), (381, 24010), (384, 24031), (388, 24091), (401, 24265), (402, 24268), (405, 24301), (416, 24517), (419, 24532), (448, 25054), (451, 25150), (454, 25183), (464, 25330), (465, 25333), (472, 25444), (482, 25498), (486, 25540), (498, 25633), (501, 25645), (508, 25675), (510, 25708), (513, 25720),

Gene: Shinji_29 Start: 19375, Stop: 24897, Start Num: 1
Candidate Starts for Shinji_29:
(Start: 1 @19375 has 33 MA's), (3, 19462), (4, 19549), (6, 19582), (7, 19606), (Start: 12 @19729 has 9 MA's), (13, 19750), (14, 19756), (15, 19780), (19, 19810), (25, 19849), (32, 19933), (40, 19969), (43, 19993), (48, 20032), (101, 20422), (117, 20590), (120, 20650), (125, 20722), (126, 20734), (129, 20770), (131, 20794), (139, 20893), (140, 20896), (142, 20926), (144, 21001), (145, 21013), (148, 21055), (150, 21085), (154, 21136), (166, 21277), (167, 21295), (168, 21307), (170, 21316), (181, 21418), (183, 21439), (184, 21460), (185, 21511), (186, 21514), (192, 21598), (196, 21628), (199, 21646), (204, 21715), (207, 21748), (209, 21754), (211, 21763), (214, 21769), (225, 21823), (231, 21895), (232, 21904), (234, 21925), (239, 21982), (241, 22018), (249, 22099), (251, 22102), (256, 22171), (274, 22339), (282, 22405), (283, 22408), (289, 22432), (294, 22459), (295, 22462), (296, 22465), (297, 22471), (305, 22540), (307, 22549), (311, 22594), (312, 22603), (323, 22681), (328, 22735), (335, 22789), (341, 22846), (351, 22888), (355, 22924), (359, 22987), (365, 23038), (377, 23149), (381, 23188), (388, 23269), (401, 23443), (402, 23446), (405, 23479), (416, 23686), (418,

23695), (419, 23701), (421, 23722), (435, 24016), (448, 24223), (454, 24349), (465, 24499), (472, 24610), (481, 24655), (482, 24664), (483, 24670), (486, 24706), (498, 24799), (501, 24811), (508, 24841), (510, 24874), (513, 24886),

Gene: Shivanishola_34 Start: 25088, Stop: 29905, Start Num: 11
Candidate Starts for Shivanishola_34:
(Start: 11 @25088 has 74 MA's), (26, 25262), (30, 25295), (57, 25424), (66, 25457), (69, 25469), (72, 25481), (79, 25511), (80, 25538), (84, 25556), (104, 25667), (116, 25787), (117, 25808), (120, 25868), (122, 25901), (125, 25943), (128, 25979), (132, 26015), (134, 26030), (135, 26033), (142, 26144), (143, 26180), (145, 26231), (148, 26273), (150, 26303), (154, 26354), (157, 26387), (158, 26420), (159, 26432), (167, 26513), (170, 26534), (173, 26546), (182, 26642), (183, 26657), (184, 26678), (185, 26729), (187, 26738), (192, 26816), (199, 26864), (200, 26873), (204, 26933), (210, 26978), (213, 26987), (221, 27014), (225, 27041), (227, 27062), (230, 27098), (237, 27164), (239, 27200), (244, 27287), (245, 27290), (246, 27299), (249, 27317), (259, 27368), (262, 27374), (280, 27500), (302, 27602), (308, 27635), (314, 27698), (321, 27752), (327, 27815), (342, 27926), (348, 27953), (349, 27959), (359, 28061), (361, 28073), (366, 28127), (370, 28154), (375, 28181), (378, 28220), (385, 28286), (390, 28358), (391, 28367), (395, 28427), (398, 28472), (418, 28787), (419, 28793), (420, 28811), (427, 28907), (437, 29111), (449, 29255), (452, 29324), (458, 29420), (494, 29759), (501, 29798), (502, 29804), (505, 29810), (509, 29837), (512, 29873), (514, 29885),

Gene: Sitar_33 Start: 26184, Stop: 30995, Start Num: 11
Candidate Starts for Sitar_33:
(Start: 11 @26184 has 74 MA's), (26, 26358), (28, 26382), (57, 26520), (67, 26559), (69, 26565), (72, 26577), (76, 26595), (79, 26607), (80, 26634), (84, 26652), (87, 26664), (104, 26763), (116, 26883), (117, 26904), (120, 26964), (122, 26997), (125, 27039), (128, 27075), (132, 27111), (134, 27126), (135, 27129), (142, 27240), (143, 27276), (145, 27327), (148, 27369), (150, 27399), (154, 27450), (157, 27483), (158, 27516), (159, 27528), (167, 27609), (170, 27630), (173, 27642), (182, 27738), (183, 27753), (184, 27774), (185, 27825), (187, 27834), (192, 27912), (199, 27960), (200, 27969), (204, 28029), (209, 28068), (210, 28074), (213, 28083), (221, 28110), (225, 28137), (227, 28158), (230, 28194), (237, 28260), (239, 28296), (244, 28383), (245, 28386), (249, 28413), (259, 28464), (262, 28470), (280, 28596), (302, 28698), (308, 28731), (314, 28794), (321, 28848), (327, 28911), (342, 29022), (348, 29049), (349, 29055), (359, 29157), (361, 29169), (366, 29223), (370, 29250), (375, 29277), (378, 29316), (380, 29340), (385, 29382), (390, 29454), (391, 29463), (395, 29523), (398, 29568), (418, 29883), (419, 29889), (420, 29907), (427, 30003), (431, 30108), (437, 30207), (449, 30351), (452, 30414), (454, 30426), (458, 30510), (494, 30849), (501, 30888), (502, 30894), (505, 30900), (509, 30927), (512, 30963), (514, 30975),

Gene: Sixsevenium_30 Start: 19326, Stop: 24842, Start Num: 1
Candidate Starts for Sixsevenium_30:
(Start: 1 @19326 has 33 MA's), (4, 19500), (6, 19533), (7, 19557), (Start: 12 @19680 has 9 MA's), (13, 19701), (14, 19707), (15, 19731), (19, 19761), (25, 19800), (32, 19884), (40, 19920), (43, 19944), (48, 19983), (85, 20271), (101, 20373), (116, 20520), (117, 20541), (120, 20601), (125, 20673), (126, 20685), (129, 20721), (139, 20844), (140, 20847), (142, 20877), (144, 20952), (145, 20964), (148, 21006), (150, 21036), (154, 21087), (166, 21228), (167, 21246), (168, 21258), (170, 21267), (179, 21357), (181, 21369), (183, 21390), (184, 21411), (185, 21462), (186, 21465), (192, 21549), (196, 21579), (199, 21597), (204, 21666), (207, 21699), (209, 21705), (211, 21714), (214, 21720), (225, 21774), (231, 21846), (232, 21855), (234, 21876), (239, 21933), (249, 22050), (251, 22053), (254, 22101), (274, 22290), (282, 22356), (283, 22359), (289, 22383), (295, 22413), (296, 22416), (297, 22422), (303, 22467), (305, 22491), (307, 22500), (311, 22545), (312, 22554), (314, 22566), (319, 22611), (320, 22614), (323, 22632), (328, 22686), (335, 22740), (351, 22839), (359, 22938), (365, 22989), (377, 23100), (381, 23139), (384, 23160), (388, 23220), (401, 23394), (402, 23397), (405, 23430), (416, 23640), (419, 23655), (448, 24165), (451, 24261), (454, 24294), (464, 24441), (465, 24444), (472, 24555), (482, 24609), (486, 24651), (498, 24744), (501, 24756), (508, 24786), (510,

24819), (513, 24831),

Gene: SmokingBunny_29 Start: 19390, Stop: 24912, Start Num: 1
Candidate Starts for SmokingBunny_29:
(Start: 1 @19390 has 33 MA's), (3, 19477), (4, 19564), (6, 19597), (7, 19621), (Start: 12 @19744 has 9 MA's), (13, 19765), (14, 19771), (15, 19795), (19, 19825), (25, 19864), (32, 19948), (40, 19984), (43, 20008), (48, 20047), (101, 20437), (117, 20605), (120, 20665), (125, 20737), (126, 20749), (129, 20785), (131, 20809), (139, 20908), (140, 20911), (142, 20941), (144, 21016), (145, 21028), (148, 21070), (150, 21100), (154, 21151), (166, 21292), (167, 21310), (168, 21322), (170, 21331), (181, 21433), (183, 21454), (184, 21475), (185, 21526), (186, 21529), (192, 21613), (196, 21643), (199, 21661), (204, 21730), (207, 21763), (209, 21769), (211, 21778), (214, 21784), (225, 21838), (231, 21910), (232, 21919), (234, 21940), (239, 21997), (241, 22033), (249, 22114), (251, 22117), (256, 22186), (274, 22354), (282, 22420), (283, 22423), (289, 22447), (294, 22474), (295, 22477), (296, 22480), (297, 22486), (305, 22555), (307, 22564), (311, 22609), (312, 22618), (323, 22696), (328, 22750), (335, 22804), (341, 22861), (351, 22903), (355, 22939), (359, 23002), (365, 23053), (377, 23164), (381, 23203), (388, 23284), (401, 23458), (402, 23461), (405, 23494), (416, 23701), (418, 23710), (419, 23716), (421, 23737), (435, 24031), (448, 24238), (454, 24364), (465, 24514), (472, 24625), (481, 24670), (482, 24679), (483, 24685), (486, 24721), (498, 24814), (501, 24826), (508, 24856), (510, 24889), (513, 24901),

Gene: Stichling_30 Start: 23182, Stop: 28200, Start Num: 11
Candidate Starts for Stichling_30:
(Start: 11 @23182 has 74 MA's), (16, 23257), (21, 23302), (26, 23356), (28, 23380), (31, 23422), (33, 23440), (37, 23455), (44, 23527), (48, 23554), (53, 23629), (55, 23638), (62, 23695), (63, 23713), (64, 23719), (67, 23737), (73, 23764), (98, 23920), (104, 23971), (106, 23983), (109, 24031), (120, 24172), (122, 24205), (125, 24247), (132, 24319), (134, 24334), (135, 24337), (142, 24448), (143, 24484), (145, 24535), (148, 24577), (150, 24607), (154, 24658), (157, 24691), (158, 24724), (159, 24736), (167, 24817), (173, 24850), (174, 24853), (178, 24910), (182, 24946), (183, 24961), (184, 24982), (185, 25033), (199, 25168), (204, 25237), (209, 25276), (210, 25282), (213, 25291), (221, 25318), (225, 25345), (227, 25366), (230, 25402), (232, 25426), (233, 25429), (236, 25465), (239, 25504), (245, 25594), (251, 25624), (259, 25672), (262, 25678), (279, 25801), (280, 25804), (281, 25810), (294, 25867), (298, 25879), (302, 25906), (308, 25939), (309, 25945), (314, 26002), (321, 26056), (327, 26119), (342, 26230), (348, 26257), (349, 26263), (359, 26365), (366, 26431), (383, 26563), (385, 26590), (391, 26671), (395, 26731), (398, 26776), (416, 27082), (418, 27091), (421, 27118), (425, 27187), (431, 27316), (437, 27415), (449, 27559), (452, 27631), (453, 27637), (454, 27643), (458, 27718), (461, 27748), (472, 27886), (483, 27946), (486, 27982), (489, 28027), (494, 28054), (501, 28093), (502, 28099), (505, 28105), (509, 28132), (512, 28168), (514, 28180),

Gene: StorminNorm_32 Start: 23529, Stop: 28547, Start Num: 11
Candidate Starts for StorminNorm_32:
(Start: 11 @23529 has 74 MA's), (17, 23616), (21, 23649), (26, 23703), (28, 23727), (31, 23769), (33, 23787), (37, 23802), (44, 23874), (48, 23901), (53, 23976), (55, 23985), (62, 24042), (63, 24060), (64, 24066), (104, 24318), (109, 24378), (120, 24519), (122, 24552), (125, 24594), (132, 24666), (134, 24681), (135, 24684), (142, 24795), (143, 24831), (145, 24882), (148, 24924), (150, 24954), (154, 25005), (157, 25038), (158, 25071), (159, 25083), (167, 25164), (173, 25197), (174, 25200), (178, 25257), (182, 25293), (183, 25308), (184, 25329), (185, 25380), (199, 25515), (200, 25524), (207, 25617), (209, 25623), (210, 25629), (213, 25638), (220, 25662), (223, 25674), (225, 25692), (230, 25749), (239, 25851), (245, 25941), (251, 25971), (259, 26019), (262, 26025), (279, 26148), (280, 26151), (281, 26157), (294, 26214), (298, 26226), (300, 26247), (302, 26253), (308, 26286), (314, 26349), (321, 26403), (327, 26466), (342, 26577), (348, 26604), (349, 26610), (359, 26712), (366, 26778), (383, 26910), (385, 26937), (391, 27018), (395, 27078), (398, 27123), (416, 27429), (418, 27438), (421, 27465), (425, 27534), (431, 27663), (437, 27762), (449, 27906), (452, 27978), (453, 27984), (454, 27990), (458, 28065), (461, 28095), (472, 28233), (483, 28293), (486, 28329), (489,

28374), (494, 28401), (501, 28440), (502, 28446), (505, 28452), (509, 28479), (512, 28515), (514, 28527),

Gene: Stultus_31 Start: 24099, Stop: 28922, Start Num: 11
Candidate Starts for Stultus_31:
(Start: 11 @24099 has 74 MA's), (26, 24273), (28, 24297), (57, 24435), (67, 24474), (69, 24480), (72, 24492), (76, 24510), (79, 24522), (80, 24549), (84, 24567), (87, 24579), (104, 24678), (117, 24819), (120, 24879), (122, 24912), (125, 24954), (128, 24990), (132, 25026), (134, 25041), (135, 25044), (142, 25155), (143, 25191), (145, 25242), (148, 25284), (150, 25314), (154, 25365), (157, 25398), (158, 25431), (159, 25443), (167, 25524), (170, 25545), (173, 25557), (182, 25653), (183, 25668), (184, 25689), (185, 25740), (187, 25749), (192, 25827), (199, 25875), (200, 25884), (204, 25944), (210, 25989), (213, 25998), (221, 26025), (225, 26052), (227, 26073), (230, 26109), (237, 26175), (239, 26211), (244, 26298), (245, 26301), (246, 26310), (249, 26328), (259, 26379), (262, 26385), (280, 26511), (298, 26586), (302, 26613), (308, 26646), (314, 26709), (321, 26763), (327, 26826), (342, 26937), (348, 26964), (349, 26970), (359, 27072), (361, 27084), (366, 27138), (370, 27165), (375, 27192), (378, 27231), (380, 27255), (385, 27297), (390, 27369), (391, 27378), (395, 27438), (398, 27483), (418, 27798), (419, 27804), (420, 27822), (427, 27918), (431, 28023), (437, 28122), (449, 28266), (452, 28341), (454, 28353), (458, 28437), (494, 28776), (501, 28815), (502, 28821), (505, 28827), (509, 28854), (512, 28890), (514, 28902),

Gene: Tangent_33 Start: 24533, Stop: 29359, Start Num: 11
Candidate Starts for Tangent_33:
(Start: 11 @24533 has 74 MA's), (26, 24707), (28, 24731), (57, 24869), (66, 24902), (69, 24914), (72, 24926), (76, 24944), (79, 24956), (84, 25001), (104, 25112), (116, 25232), (117, 25253), (120, 25313), (122, 25346), (125, 25388), (128, 25424), (132, 25460), (134, 25475), (135, 25478), (142, 25589), (143, 25625), (145, 25676), (148, 25718), (150, 25748), (154, 25799), (157, 25832), (158, 25865), (159, 25877), (167, 25958), (173, 25991), (182, 26087), (183, 26102), (184, 26123), (185, 26174), (187, 26183), (192, 26261), (199, 26309), (200, 26318), (204, 26378), (209, 26417), (210, 26423), (213, 26432), (221, 26459), (225, 26486), (227, 26507), (230, 26543), (237, 26609), (238, 26630), (239, 26645), (244, 26732), (245, 26735), (259, 26813), (271, 26873), (280, 26945), (302, 27047), (308, 27080), (314, 27143), (321, 27197), (327, 27260), (342, 27371), (348, 27398), (349, 27404), (359, 27506), (361, 27518), (366, 27572), (370, 27599), (375, 27626), (378, 27665), (380, 27689), (383, 27704), (385, 27731), (390, 27803), (391, 27812), (395, 27872), (398, 27917), (413, 28106), (418, 28235), (419, 28241), (420, 28259), (427, 28355), (431, 28460), (437, 28559), (449, 28703), (452, 28778), (454, 28790), (458, 28874), (494, 29213), (501, 29252), (502, 29258), (505, 29264), (509, 29291), (512, 29327), (514, 29339),

Gene: Tangerine_32 Start: 23535, Stop: 28550, Start Num: 11
Candidate Starts for Tangerine_32:
(Start: 11 @23535 has 74 MA's), (17, 23622), (21, 23655), (26, 23709), (28, 23733), (31, 23775), (33, 23793), (37, 23808), (44, 23880), (48, 23907), (53, 23982), (55, 23991), (62, 24048), (63, 24066), (64, 24072), (67, 24090), (73, 24117), (104, 24324), (106, 24336), (109, 24384), (120, 24525), (122, 24558), (125, 24600), (132, 24672), (134, 24687), (135, 24690), (142, 24801), (143, 24837), (145, 24888), (148, 24930), (150, 24960), (152, 24990), (157, 25044), (158, 25077), (167, 25170), (173, 25203), (174, 25206), (178, 25263), (182, 25299), (183, 25314), (184, 25335), (185, 25386), (199, 25521), (200, 25530), (207, 25623), (209, 25629), (210, 25635), (213, 25644), (220, 25668), (223, 25680), (225, 25698), (230, 25755), (239, 25857), (245, 25947), (251, 25977), (259, 26025), (262, 26031), (279, 26154), (280, 26157), (294, 26220), (298, 26232), (300, 26253), (302, 26259), (308, 26292), (314, 26355), (321, 26409), (342, 26583), (348, 26610), (349, 26616), (359, 26718), (366, 26784), (383, 26916), (385, 26943), (391, 27024), (395, 27084), (398, 27129), (416, 27435), (418, 27444), (421, 27471), (425, 27540), (431, 27669), (437, 27768), (449, 27912), (452, 27981), (453, 27987), (454, 27993), (458, 28068), (461, 28098), (472, 28236), (483, 28296), (486, 28332), (489, 28377), (494, 28404), (501, 28443), (502, 28449), (505, 28455), (509, 28482), (512, 28518), (514,

28530),

Gene: Tardus_34 Start: 24199, Stop: 29124, Start Num: 11
Candidate Starts for Tardus_34:
(Start: 11 @24199 has 74 MA's), (21, 24319), (22, 24331), (26, 24373), (28, 24397), (30, 24406), (36, 24463), (37, 24472), (44, 24544), (49, 24577), (53, 24646), (55, 24655), (58, 24673), (71, 24754), (74, 24763), (81, 24826), (83, 24832), (88, 24859), (93, 24889), (95, 24898), (104, 24961), (106, 24973), (108, 25006), (112, 25060), (115, 25072), (119, 25114), (122, 25195), (124, 25219), (125, 25237), (126, 25249), (132, 25309), (135, 25327), (142, 25438), (143, 25474), (144, 25513), (145, 25525), (148, 25567), (150, 25597), (157, 25681), (158, 25714), (167, 25807), (170, 25828), (174, 25843), (181, 25930), (184, 25972), (186, 26026), (189, 26059), (199, 26158), (200, 26167), (204, 26227), (205, 26239), (209, 26266), (221, 26308), (222, 26314), (224, 26329), (225, 26335), (232, 26416), (233, 26419), (235, 26440), (239, 26494), (243, 26557), (251, 26614), (266, 26701), (275, 26767), (298, 26824), (299, 26827), (302, 26851), (313, 26941), (319, 26989), (350, 27217), (353, 27235), (356, 27292), (366, 27382), (372, 27445), (383, 27526), (385, 27553), (390, 27625), (391, 27634), (395, 27694), (403, 27805), (416, 28033), (418, 28042), (421, 28069), (424, 28111), (426, 28171), (434, 28333), (435, 28360), (438, 28432), (439, 28471), (455, 28678), (460, 28750), (468, 28816), (483, 28951), (487, 29014), (488, 29017), (490, 29035), (492, 29050), (497, 29077), (499, 29089),

Gene: Thing3_32 Start: 25026, Stop: 29843, Start Num: 11
Candidate Starts for Thing3_32:
(Start: 11 @25026 has 74 MA's), (26, 25200), (28, 25224), (57, 25362), (69, 25407), (72, 25419), (76, 25437), (79, 25449), (80, 25476), (84, 25494), (87, 25506), (104, 25605), (116, 25725), (117, 25746), (120, 25806), (122, 25839), (125, 25881), (132, 25953), (134, 25968), (135, 25971), (142, 26082), (143, 26118), (145, 26169), (148, 26211), (150, 26241), (154, 26292), (157, 26325), (158, 26358), (159, 26370), (167, 26451), (170, 26472), (173, 26484), (182, 26580), (183, 26595), (184, 26616), (185, 26667), (187, 26676), (192, 26754), (199, 26802), (200, 26811), (204, 26871), (210, 26916), (213, 26925), (221, 26952), (225, 26979), (227, 27000), (230, 27036), (237, 27102), (239, 27138), (244, 27225), (245, 27228), (246, 27237), (249, 27255), (259, 27306), (262, 27312), (280, 27438), (298, 27513), (302, 27540), (308, 27573), (314, 27636), (321, 27690), (327, 27753), (342, 27864), (348, 27891), (349, 27897), (359, 27999), (361, 28011), (366, 28065), (370, 28092), (375, 28119), (378, 28158), (380, 28182), (385, 28224), (390, 28296), (391, 28305), (395, 28365), (398, 28410), (418, 28728), (419, 28734), (420, 28752), (427, 28848), (431, 28953), (437, 29052), (449, 29196), (452, 29271), (454, 29283), (458, 29358), (476, 29553), (494, 29697), (501, 29736), (502, 29742), (505, 29748), (509, 29775), (512, 29811), (514, 29823),

Gene: Tiamoceli_31 Start: 22285, Stop: 27402, Start Num: 11
Candidate Starts for Tiamoceli_31:
(Start: 11 @22285 has 74 MA's), (21, 22405), (26, 22459), (29, 22492), (35, 22549), (37, 22558), (38, 22561), (44, 22630), (45, 22642), (48, 22657), (50, 22693), (53, 22732), (54, 22738), (56, 22744), (61, 22777), (66, 22819), (68, 22828), (70, 22837), (71, 22843), (83, 22921), (86, 22939), (93, 22978), (102, 23035), (104, 23050), (114, 23143), (125, 23314), (132, 23386), (135, 23404), (139, 23482), (142, 23515), (143, 23551), (144, 23590), (145, 23602), (150, 23674), (154, 23725), (156, 23746), (157, 23758), (161, 23809), (163, 23839), (170, 23905), (181, 24007), (184, 24049), (186, 24103), (188, 24133), (189, 24136), (192, 24187), (195, 24214), (199, 24235), (203, 24301), (207, 24337), (209, 24343), (220, 24382), (223, 24394), (224, 24406), (225, 24412), (227, 24433), (235, 24517), (236, 24532), (238, 24556), (248, 24691), (251, 24703), (260, 24766), (261, 24769), (277, 24874), (278, 24892), (288, 24922), (299, 24973), (308, 25030), (315, 25105), (316, 25114), (317, 25123), (318, 25129), (325, 25180), (329, 25213), (330, 25225), (333, 25246), (334, 25258), (337, 25291), (340, 25312), (357, 25444), (363, 25498), (386, 25705), (394, 25819), (396, 25831), (405, 25957), (408, 25975), (411, 26053), (421, 26242), (423, 26272), (428, 26443), (433, 26470), (443, 26677), (444, 26680), (446, 26698), (463, 26947), (466, 26965), (467, 26977), (478, 27094), (495, 27250), (496, 27253), (504, 27295), (506, 27313), (509, 27328), (511, 27367),

Gene: TillyBobJoe_29 Start: 19189, Stop: 24723, Start Num: 1
Candidate Starts for TillyBobJoe_29:
(Start: 1 @19189 has 33 MA's), (3, 19276), (4, 19363), (6, 19396), (7, 19420), (Start: 12 @19543 has 9 MA's), (13, 19564), (14, 19570), (15, 19594), (18, 19603), (19, 19624), (25, 19663), (32, 19747), (40, 19783), (43, 19807), (48, 19846), (101, 20236), (117, 20404), (120, 20464), (125, 20536), (126, 20548), (129, 20584), (131, 20608), (139, 20707), (140, 20710), (142, 20740), (144, 20815), (145, 20827), (148, 20869), (150, 20899), (154, 20950), (166, 21091), (167, 21109), (168, 21121), (170, 21130), (181, 21232), (183, 21253), (184, 21274), (185, 21325), (186, 21328), (187, 21334), (192, 21412), (196, 21442), (199, 21460), (204, 21529), (207, 21562), (209, 21568), (211, 21577), (214, 21583), (225, 21637), (231, 21709), (232, 21718), (234, 21739), (239, 21796), (241, 21832), (249, 21913), (251, 21916), (256, 21985), (263, 22057), (274, 22153), (282, 22219), (283, 22222), (289, 22246), (294, 22273), (295, 22276), (296, 22279), (297, 22285), (305, 22354), (307, 22363), (311, 22408), (312, 22417), (323, 22495), (336, 22624), (338, 22639), (344, 22681), (351, 22723), (354, 22741), (355, 22759), (359, 22822), (365, 22873), (377, 22984), (381, 23023), (388, 23104), (401, 23278), (402, 23281), (405, 23314), (407, 23329), (416, 23521), (418, 23530), (419, 23536), (426, 23650), (430, 23770), (439, 23950), (454, 24175), (465, 24325), (481, 24481), (482, 24490), (486, 24532), (500, 24631), (501, 24637), (508, 24667), (510, 24700), (513, 24712),

Gene: Togo_29 Start: 19390, Stop: 24912, Start Num: 1
Candidate Starts for Togo_29:
(Start: 1 @19390 has 33 MA's), (3, 19477), (4, 19564), (6, 19597), (7, 19621), (Start: 12 @19744 has 9 MA's), (13, 19765), (14, 19771), (15, 19795), (19, 19825), (25, 19864), (32, 19948), (40, 19984), (43, 20008), (48, 20047), (101, 20437), (117, 20605), (120, 20665), (125, 20737), (126, 20749), (129, 20785), (131, 20809), (139, 20908), (140, 20911), (142, 20941), (144, 21016), (145, 21028), (148, 21070), (150, 21100), (154, 21151), (166, 21292), (167, 21310), (168, 21322), (170, 21331), (181, 21433), (183, 21454), (184, 21475), (185, 21526), (186, 21529), (192, 21613), (196, 21643), (199, 21661), (204, 21730), (207, 21763), (209, 21769), (211, 21778), (214, 21784), (225, 21838), (231, 21910), (232, 21919), (234, 21940), (239, 21997), (241, 22033), (249, 22114), (251, 22117), (256, 22186), (274, 22354), (282, 22420), (283, 22423), (289, 22447), (294, 22474), (295, 22477), (296, 22480), (297, 22486), (305, 22555), (307, 22564), (311, 22609), (312, 22618), (323, 22696), (328, 22750), (335, 22804), (341, 22861), (351, 22903), (355, 22939), (359, 23002), (365, 23053), (377, 23164), (381, 23203), (388, 23284), (401, 23458), (402, 23461), (405, 23494), (416, 23701), (418, 23710), (419, 23716), (421, 23737), (435, 24031), (448, 24238), (454, 24364), (465, 24514), (472, 24625), (481, 24670), (482, 24679), (483, 24685), (486, 24721), (498, 24814), (501, 24826), (508, 24856), (510, 24889), (513, 24901),

Gene: Twister6_31 Start: 19817, Stop: 25348, Start Num: 1
Candidate Starts for Twister6_31:
(Start: 1 @19817 has 33 MA's), (3, 19904), (4, 19991), (6, 20024), (7, 20048), (Start: 12 @20171 has 9 MA's), (13, 20192), (14, 20198), (15, 20222), (19, 20252), (25, 20291), (32, 20375), (40, 20411), (43, 20435), (48, 20474), (101, 20864), (117, 21032), (120, 21092), (125, 21164), (126, 21176), (129, 21212), (131, 21236), (139, 21335), (140, 21338), (142, 21368), (144, 21443), (145, 21455), (148, 21497), (150, 21527), (154, 21578), (166, 21719), (167, 21737), (168, 21749), (170, 21758), (181, 21860), (183, 21881), (184, 21902), (185, 21953), (186, 21956), (187, 21962), (192, 22040), (196, 22070), (199, 22088), (204, 22157), (207, 22190), (209, 22196), (211, 22205), (214, 22211), (225, 22265), (228, 22310), (231, 22337), (232, 22346), (234, 22367), (239, 22424), (241, 22460), (249, 22541), (251, 22544), (256, 22613), (263, 22685), (274, 22781), (282, 22847), (283, 22850), (289, 22874), (294, 22901), (295, 22904), (296, 22907), (297, 22913), (305, 22982), (307, 22991), (311, 23036), (312, 23045), (323, 23123), (328, 23177), (335, 23231), (341, 23288), (351, 23330), (355, 23366), (359, 23429), (365, 23480), (377, 23591), (381, 23630), (388, 23711), (401, 23885), (402, 23888), (405, 23921), (416, 24128), (418, 24137), (419, 24143), (435, 24455), (448, 24662), (454, 24800), (465, 24950), (472, 25061), (481, 25106), (482, 25115), (483, 25121), (486, 25157), (498,

25250), (501, 25262), (508, 25292), (510, 25325), (513, 25337),

Gene: Twonlo_28 Start: 20903, Stop: 26020, Start Num: 11
Candidate Starts for Twonlo_28:
(Start: 11 @20903 has 74 MA's), (21, 21023), (26, 21077), (29, 21110), (35, 21167), (37, 21176), (38, 21179), (44, 21248), (45, 21260), (48, 21275), (50, 21311), (53, 21350), (54, 21356), (56, 21362), (61, 21395), (66, 21437), (68, 21446), (70, 21455), (71, 21461), (83, 21539), (86, 21557), (93, 21596), (102, 21653), (104, 21668), (114, 21761), (125, 21932), (132, 22004), (135, 22022), (139, 22100), (142, 22133), (143, 22169), (144, 22208), (145, 22220), (150, 22292), (154, 22343), (156, 22364), (157, 22376), (161, 22427), (163, 22457), (170, 22523), (181, 22625), (184, 22667), (186, 22721), (188, 22751), (189, 22754), (192, 22805), (195, 22832), (199, 22853), (203, 22919), (207, 22955), (209, 22961), (220, 23000), (223, 23012), (224, 23024), (225, 23030), (227, 23051), (235, 23135), (236, 23150), (238, 23174), (248, 23309), (251, 23321), (260, 23384), (261, 23387), (277, 23492), (278, 23510), (288, 23540), (299, 23591), (308, 23648), (315, 23723), (316, 23732), (317, 23741), (318, 23747), (325, 23798), (329, 23831), (330, 23843), (333, 23864), (334, 23876), (337, 23909), (340, 23930), (357, 24062), (363, 24116), (386, 24323), (394, 24437), (396, 24449), (405, 24575), (408, 24593), (411, 24671), (421, 24860), (423, 24890), (428, 25061), (433, 25088), (443, 25295), (444, 25298), (446, 25316), (463, 25565), (466, 25583), (467, 25595), (478, 25712), (495, 25868), (496, 25871), (504, 25913), (506, 25931), (509, 25946), (511, 25985),

Gene: Tycho_32 Start: 23624, Stop: 28639, Start Num: 11
Candidate Starts for Tycho_32:
(Start: 11 @23624 has 74 MA's), (17, 23711), (21, 23744), (26, 23798), (28, 23822), (31, 23864), (33, 23882), (37, 23897), (44, 23969), (48, 23996), (53, 24071), (55, 24080), (62, 24137), (63, 24155), (64, 24161), (104, 24413), (109, 24473), (120, 24614), (122, 24647), (125, 24689), (132, 24761), (134, 24776), (135, 24779), (142, 24890), (143, 24926), (145, 24977), (148, 25019), (150, 25049), (154, 25100), (157, 25133), (158, 25166), (159, 25178), (167, 25259), (173, 25292), (174, 25295), (178, 25352), (182, 25388), (183, 25403), (184, 25424), (185, 25475), (199, 25610), (200, 25619), (207, 25712), (209, 25718), (210, 25724), (213, 25733), (218, 25745), (220, 25757), (223, 25769), (225, 25787), (230, 25844), (239, 25946), (240, 25964), (242, 25988), (245, 26036), (251, 26066), (259, 26114), (262, 26120), (279, 26243), (280, 26246), (281, 26252), (294, 26309), (298, 26321), (300, 26342), (302, 26348), (308, 26381), (314, 26444), (321, 26498), (327, 26561), (342, 26672), (348, 26699), (349, 26705), (359, 26807), (366, 26873), (383, 27005), (385, 27032), (391, 27113), (395, 27173), (398, 27218), (416, 27524), (418, 27533), (421, 27560), (425, 27629), (431, 27758), (437, 27857), (449, 28001), (452, 28070), (453, 28076), (454, 28082), (458, 28157), (461, 28187), (472, 28325), (483, 28385), (486, 28421), (489, 28466), (494, 28493), (501, 28532), (502, 28538), (505, 28544), (509, 28571), (512, 28607), (514, 28619),

Gene: Valary_32 Start: 20326, Stop: 25857, Start Num: 1
Candidate Starts for Valary_32:
(Start: 1 @20326 has 33 MA's), (3, 20413), (4, 20500), (6, 20533), (Start: 12 @20680 has 9 MA's), (13, 20701), (14, 20707), (15, 20731), (19, 20761), (25, 20800), (32, 20884), (40, 20920), (43, 20944), (48, 20983), (101, 21373), (117, 21541), (120, 21601), (125, 21673), (126, 21685), (129, 21721), (131, 21745), (139, 21844), (140, 21847), (142, 21877), (144, 21952), (145, 21964), (148, 22006), (150, 22036), (154, 22087), (166, 22228), (167, 22246), (168, 22258), (170, 22267), (181, 22369), (183, 22390), (184, 22411), (185, 22462), (186, 22465), (192, 22549), (196, 22579), (199, 22597), (204, 22666), (207, 22699), (209, 22705), (211, 22714), (214, 22720), (225, 22774), (231, 22846), (232, 22855), (234, 22876), (239, 22933), (241, 22969), (249, 23050), (251, 23053), (256, 23122), (274, 23290), (282, 23356), (283, 23359), (289, 23383), (294, 23410), (295, 23413), (296, 23416), (297, 23422), (305, 23491), (307, 23500), (311, 23545), (312, 23554), (323, 23632), (328, 23686), (335, 23740), (341, 23797), (351, 23839), (355, 23875), (359, 23938), (365, 23989), (374, 24073), (377, 24100), (381, 24139), (384, 24160), (388, 24220), (401, 24394), (402, 24397), (405, 24430), (416, 24637), (418, 24646), (419, 24652), (435, 24964), (448, 25171), (454, 25309), (465, 25459), (472,

25570), (481, 25615), (482, 25624), (483, 25630), (486, 25666), (498, 25759), (501, 25771), (508, 25801), (510, 25834), (513, 25846),

Gene: VanDeWege_32 Start: 20198, Stop: 25696, Start Num: 1
Candidate Starts for VanDeWege_32:
(Start: 1 @20198 has 33 MA's), (3, 20285), (4, 20372), (6, 20405), (7, 20429), (Start: 12 @20552 has 9 MA's), (13, 20573), (14, 20579), (15, 20603), (19, 20633), (25, 20672), (32, 20756), (40, 20792), (43, 20816), (48, 20855), (101, 21245), (117, 21413), (120, 21473), (125, 21545), (126, 21557), (129, 21593), (131, 21617), (139, 21716), (140, 21719), (142, 21749), (144, 21824), (145, 21836), (148, 21878), (150, 21908), (154, 21959), (166, 22100), (167, 22118), (168, 22130), (170, 22139), (181, 22241), (183, 22262), (184, 22283), (185, 22334), (186, 22337), (187, 22343), (192, 22421), (196, 22451), (199, 22469), (204, 22538), (207, 22571), (209, 22577), (211, 22586), (214, 22592), (225, 22646), (228, 22691), (231, 22718), (232, 22727), (234, 22748), (239, 22805), (241, 22841), (249, 22922), (251, 22925), (256, 22994), (263, 23066), (274, 23162), (282, 23228), (283, 23231), (289, 23255), (294, 23282), (295, 23285), (296, 23288), (297, 23294), (305, 23363), (307, 23372), (311, 23417), (312, 23426), (323, 23504), (328, 23558), (335, 23612), (341, 23669), (351, 23711), (355, 23747), (359, 23810), (365, 23861), (367, 23891), (377, 23972), (381, 24011), (388, 24092), (392, 24134), (401, 24266), (402, 24269), (405, 24302), (418, 24518), (419, 24524), (426, 24638), (429, 24749), (438, 24911), (442, 24992), (447, 25019), (465, 25298), (472, 25409), (481, 25454), (482, 25463), (483, 25469), (486, 25505), (498, 25598), (501, 25610), (508, 25640), (510, 25673), (513, 25685),

Gene: Verity_32 Start: 25053, Stop: 29963, Start Num: 11
Candidate Starts for Verity_32:
(Start: 11 @25053 has 74 MA's), (21, 25173), (22, 25185), (25, 25206), (26, 25227), (28, 25251), (36, 25317), (37, 25326), (38, 25329), (49, 25431), (53, 25500), (55, 25509), (74, 25617), (78, 25638), (81, 25680), (83, 25686), (93, 25743), (95, 25752), (104, 25815), (112, 25914), (115, 25926), (119, 25968), (122, 26049), (124, 26073), (126, 26103), (130, 26160), (132, 26163), (133, 26169), (135, 26181), (138, 26253), (142, 26292), (143, 26328), (144, 26367), (145, 26379), (148, 26421), (150, 26451), (157, 26535), (158, 26568), (167, 26661), (170, 26682), (174, 26697), (181, 26784), (184, 26826), (186, 26880), (187, 26886), (189, 26913), (198, 27000), (199, 27012), (200, 27021), (204, 27081), (205, 27093), (209, 27120), (221, 27162), (222, 27168), (224, 27183), (225, 27189), (228, 27234), (231, 27261), (232, 27270), (233, 27273), (243, 27411), (249, 27465), (251, 27468), (266, 27555), (291, 27657), (301, 27702), (302, 27705), (313, 27795), (350, 28071), (352, 28086), (353, 28089), (364, 28212), (366, 28236), (372, 28299), (382, 28356), (391, 28473), (393, 28515), (395, 28533), (403, 28644), (410, 28746), (417, 28878), (418, 28884), (419, 28890), (421, 28911), (424, 28953), (434, 29172), (435, 29199), (438, 29271), (439, 29310), (455, 29517), (459, 29583), (460, 29589), (468, 29655), (475, 29751), (483, 29790), (487, 29853), (488, 29856), (490, 29874), (492, 29889), (497, 29916), (499, 29928),

Gene: ViaConlectus_33 Start: 23474, Stop: 28399, Start Num: 11
Candidate Starts for ViaConlectus_33:
(Start: 11 @23474 has 74 MA's), (21, 23594), (22, 23606), (26, 23648), (28, 23672), (36, 23738), (37, 23747), (44, 23819), (49, 23852), (53, 23921), (55, 23930), (58, 23948), (68, 24014), (71, 24029), (74, 24038), (81, 24101), (83, 24107), (88, 24134), (93, 24164), (95, 24173), (104, 24236), (106, 24248), (112, 24335), (115, 24347), (122, 24470), (124, 24494), (125, 24512), (126, 24524), (132, 24584), (133, 24590), (135, 24602), (142, 24713), (143, 24749), (144, 24788), (145, 24800), (148, 24842), (150, 24872), (153, 24914), (154, 24923), (155, 24926), (157, 24956), (158, 24989), (167, 25082), (170, 25103), (174, 25118), (181, 25205), (183, 25226), (184, 25247), (186, 25301), (189, 25334), (192, 25385), (199, 25433), (200, 25442), (204, 25502), (205, 25514), (207, 25535), (209, 25541), (221, 25583), (222, 25589), (224, 25604), (225, 25610), (232, 25691), (233, 25694), (235, 25715), (239, 25769), (243, 25832), (251, 25889), (266, 25976), (275, 26042), (298, 26099), (299, 26102), (302, 26126), (313, 26216), (319, 26264), (350, 26492), (353, 26510), (356, 26567), (366, 26657),

(372, 26720), (383, 26801), (385, 26828), (390, 26900), (391, 26909), (395, 26969), (403, 27080), (416, 27311), (418, 27320), (421, 27347), (424, 27389), (426, 27446), (434, 27608), (435, 27635), (438, 27707), (439, 27746), (455, 27953), (460, 28025), (468, 28091), (483, 28226), (487, 28289), (488, 28292), (490, 28310), (492, 28325), (497, 28352), (499, 28364),

Gene: Vivi2_35 Start: 25706, Stop: 30517, Start Num: 11
Candidate Starts for Vivi2_35:
(Start: 11 @25706 has 74 MA's), (26, 25880), (28, 25904), (57, 26042), (66, 26075), (69, 26087), (72, 26099), (76, 26117), (79, 26129), (84, 26174), (87, 26186), (104, 26285), (116, 26405), (117, 26426), (120, 26486), (122, 26519), (125, 26561), (128, 26597), (132, 26633), (134, 26648), (135, 26651), (142, 26762), (143, 26798), (145, 26849), (148, 26891), (150, 26921), (154, 26972), (157, 27005), (158, 27038), (159, 27050), (167, 27131), (170, 27152), (173, 27164), (182, 27260), (183, 27275), (184, 27296), (185, 27347), (187, 27356), (199, 27482), (200, 27491), (204, 27551), (210, 27596), (213, 27605), (221, 27632), (225, 27659), (227, 27680), (230, 27716), (237, 27782), (239, 27818), (244, 27905), (245, 27908), (259, 27986), (262, 27992), (280, 28118), (302, 28220), (308, 28253), (314, 28316), (321, 28370), (327, 28433), (342, 28544), (348, 28571), (349, 28577), (359, 28679), (366, 28745), (368, 28760), (370, 28772), (375, 28799), (378, 28838), (385, 28904), (391, 28985), (395, 29045), (398, 29090), (418, 29405), (419, 29411), (420, 29429), (427, 29522), (437, 29726), (449, 29870), (452, 29945), (458, 30032), (494, 30371), (501, 30410), (502, 30416), (505, 30422), (509, 30449), (512, 30485), (514, 30497),

Gene: Wizard_29 Start: 19524, Stop: 25055, Start Num: 1
Candidate Starts for Wizard_29:
(Start: 1 @19524 has 33 MA's), (3, 19611), (4, 19698), (6, 19731), (7, 19755), (Start: 12 @19878 has 9 MA's), (13, 19899), (14, 19905), (15, 19929), (19, 19959), (25, 19998), (32, 20082), (40, 20118), (43, 20142), (48, 20181), (101, 20571), (117, 20739), (120, 20799), (125, 20871), (126, 20883), (129, 20919), (131, 20943), (139, 21042), (140, 21045), (142, 21075), (144, 21150), (145, 21162), (148, 21204), (150, 21234), (154, 21285), (166, 21426), (167, 21444), (168, 21456), (170, 21465), (181, 21567), (183, 21588), (184, 21609), (185, 21660), (186, 21663), (187, 21669), (192, 21747), (196, 21777), (199, 21795), (204, 21864), (207, 21897), (209, 21903), (211, 21912), (214, 21918), (225, 21972), (228, 22017), (231, 22044), (232, 22053), (234, 22074), (239, 22131), (241, 22167), (249, 22248), (251, 22251), (256, 22320), (263, 22392), (274, 22488), (282, 22554), (283, 22557), (289, 22581), (294, 22608), (295, 22611), (296, 22614), (297, 22620), (305, 22689), (307, 22698), (311, 22743), (312, 22752), (323, 22830), (328, 22884), (335, 22938), (341, 22995), (351, 23037), (355, 23073), (359, 23136), (365, 23187), (377, 23298), (381, 23337), (388, 23418), (401, 23592), (402, 23595), (405, 23628), (416, 23835), (418, 23844), (419, 23850), (435, 24162), (448, 24369), (454, 24507), (465, 24657), (472, 24768), (481, 24813), (482, 24822), (483, 24828), (486, 24864), (498, 24957), (501, 24969), (508, 24999), (510, 25032), (513, 25044),

Gene: YorkOnyx_33 Start: 23880, Stop: 28898, Start Num: 11
Candidate Starts for YorkOnyx_33:
(Start: 11 @23880 has 74 MA's), (16, 23955), (21, 24000), (26, 24054), (28, 24078), (31, 24120), (33, 24138), (37, 24153), (44, 24225), (48, 24252), (53, 24327), (55, 24336), (62, 24393), (63, 24411), (64, 24417), (67, 24435), (73, 24462), (94, 24600), (98, 24618), (104, 24669), (106, 24681), (109, 24729), (120, 24870), (122, 24903), (125, 24945), (132, 25017), (134, 25032), (135, 25035), (142, 25146), (143, 25182), (145, 25233), (148, 25275), (150, 25305), (157, 25389), (158, 25422), (167, 25515), (173, 25548), (174, 25551), (178, 25608), (182, 25644), (183, 25659), (184, 25680), (185, 25731), (187, 25740), (192, 25818), (199, 25866), (200, 25875), (207, 25968), (209, 25974), (210, 25980), (213, 25989), (220, 26013), (223, 26025), (225, 26043), (230, 26100), (237, 26166), (239, 26202), (242, 26244), (245, 26292), (251, 26322), (259, 26370), (262, 26376), (279, 26499), (280, 26502), (294, 26565), (298, 26577), (300, 26598), (302, 26604), (308, 26637), (314, 26700), (321, 26754), (327, 26817), (342, 26928), (348, 26955), (349, 26961), (359, 27063), (366, 27129), (383, 27261), (385, 27288), (391, 27369), (395, 27429), (398, 27474), (416, 27780), (418, 27789), (421, 27816),

(431, 28014), (437, 28113), (449, 28257), (452, 28329), (453, 28335), (454, 28341), (458, 28416), (461, 28446), (472, 28584), (483, 28644), (486, 28680), (489, 28725), (494, 28752), (501, 28791), (502, 28797), (505, 28803), (509, 28830), (512, 28866), (514, 28878),

Gene: YungMoney_31 Start: 20893, Stop: 26415, Start Num: 1
Candidate Starts for YungMoney_31:
(Start: 1 @20893 has 33 MA's), (4, 21067), (6, 21100), (7, 21124), (Start: 12 @21247 has 9 MA's), (13, 21268), (14, 21274), (15, 21298), (19, 21328), (25, 21367), (40, 21487), (43, 21511), (48, 21550), (112, 22066), (117, 22108), (120, 22168), (125, 22240), (129, 22288), (136, 22342), (140, 22414), (142, 22444), (144, 22519), (145, 22531), (148, 22573), (150, 22603), (154, 22654), (162, 22747), (166, 22795), (167, 22813), (168, 22825), (170, 22834), (180, 22933), (181, 22936), (183, 22957), (184, 22978), (185, 23029), (186, 23032), (192, 23116), (196, 23146), (199, 23164), (201, 23191), (204, 23233), (220, 23311), (221, 23314), (222, 23320), (225, 23341), (226, 23344), (231, 23413), (233, 23425), (239, 23500), (249, 23617), (251, 23620), (254, 23668), (274, 23857), (282, 23923), (283, 23926), (289, 23950), (295, 23980), (296, 23983), (297, 23989), (303, 24034), (305, 24058), (307, 24067), (311, 24112), (312, 24121), (314, 24133), (319, 24178), (320, 24181), (323, 24199), (332, 24274), (345, 24382), (351, 24409), (359, 24508), (365, 24559), (377, 24670), (381, 24709), (388, 24790), (401, 24964), (402, 24967), (405, 25000), (416, 25210), (418, 25219), (422, 25267), (435, 25537), (448, 25744), (451, 25834), (454, 25867), (464, 26014), (465, 26017), (472, 26128), (482, 26182), (486, 26224), (498, 26317), (501, 26329), (508, 26359), (510, 26392), (513, 26404),

Gene: Zipp_32 Start: 24950, Stop: 29863, Start Num: 11
Candidate Starts for Zipp_32:
(Start: 11 @24950 has 74 MA's), (21, 25070), (22, 25082), (25, 25103), (26, 25124), (28, 25148), (36, 25214), (37, 25223), (38, 25226), (44, 25295), (49, 25328), (50, 25358), (53, 25397), (55, 25406), (74, 25514), (78, 25535), (81, 25577), (83, 25583), (93, 25640), (95, 25649), (104, 25712), (112, 25811), (115, 25823), (119, 25865), (122, 25946), (124, 25970), (126, 26000), (130, 26057), (132, 26060), (133, 26066), (135, 26078), (138, 26150), (142, 26189), (143, 26225), (144, 26264), (145, 26276), (148, 26318), (150, 26348), (157, 26432), (158, 26465), (167, 26558), (170, 26579), (174, 26594), (181, 26681), (184, 26723), (186, 26777), (187, 26783), (189, 26810), (194, 26885), (199, 26909), (200, 26918), (204, 26978), (205, 26990), (208, 27014), (209, 27017), (219, 27047), (221, 27059), (222, 27065), (224, 27080), (225, 27086), (228, 27131), (231, 27158), (232, 27167), (233, 27170), (243, 27308), (249, 27362), (251, 27365), (266, 27452), (301, 27599), (302, 27602), (313, 27692), (350, 27968), (352, 27983), (353, 27986), (364, 28109), (366, 28133), (372, 28196), (382, 28253), (391, 28370), (393, 28412), (395, 28430), (403, 28541), (410, 28643), (417, 28775), (419, 28787), (421, 28808), (424, 28853), (434, 29072), (435, 29099), (438, 29171), (439, 29210), (455, 29417), (459, 29483), (460, 29489), (468, 29555), (475, 29651), (483, 29690), (487, 29753), (488, 29756), (490, 29774), (492, 29789), (497, 29816), (499, 29828),

Gene: Zitch_34 Start: 22821, Stop: 27749, Start Num: 11
Candidate Starts for Zitch_34:
(Start: 11 @22821 has 74 MA's), (21, 22941), (22, 22953), (26, 22995), (28, 23019), (30, 23028), (36, 23085), (37, 23094), (44, 23166), (53, 23268), (55, 23277), (58, 23295), (71, 23376), (74, 23385), (81, 23448), (83, 23454), (88, 23481), (93, 23511), (95, 23520), (104, 23583), (108, 23628), (115, 23694), (122, 23817), (124, 23841), (125, 23859), (132, 23931), (135, 23949), (138, 24021), (142, 24060), (143, 24096), (144, 24135), (145, 24147), (148, 24189), (150, 24219), (157, 24303), (158, 24336), (167, 24429), (174, 24465), (178, 24522), (181, 24552), (184, 24594), (186, 24648), (189, 24681), (192, 24732), (199, 24780), (200, 24789), (204, 24849), (205, 24861), (207, 24882), (209, 24888), (221, 24930), (222, 24936), (224, 24951), (225, 24957), (232, 25038), (233, 25041), (235, 25062), (239, 25116), (243, 25179), (251, 25236), (266, 25323), (275, 25389), (298, 25446), (299, 25449), (302, 25473), (313, 25563), (319, 25611), (350, 25839), (353, 25857), (356, 25914), (366, 26004), (372, 26067), (383, 26148), (385, 26175), (390, 26247), (391, 26256), (395, 26316), (403, 26427), (416, 26658), (418, 26667), (421, 26694), (424, 26736), (434, 26955), (435, 26982), (438, 27054),

(439, 27093), (455, 27300), (460, 27372), (468, 27441), (483, 27576), (487, 27639), (488, 27642), (490, 27660), (492, 27675), (497, 27702), (499, 27714),