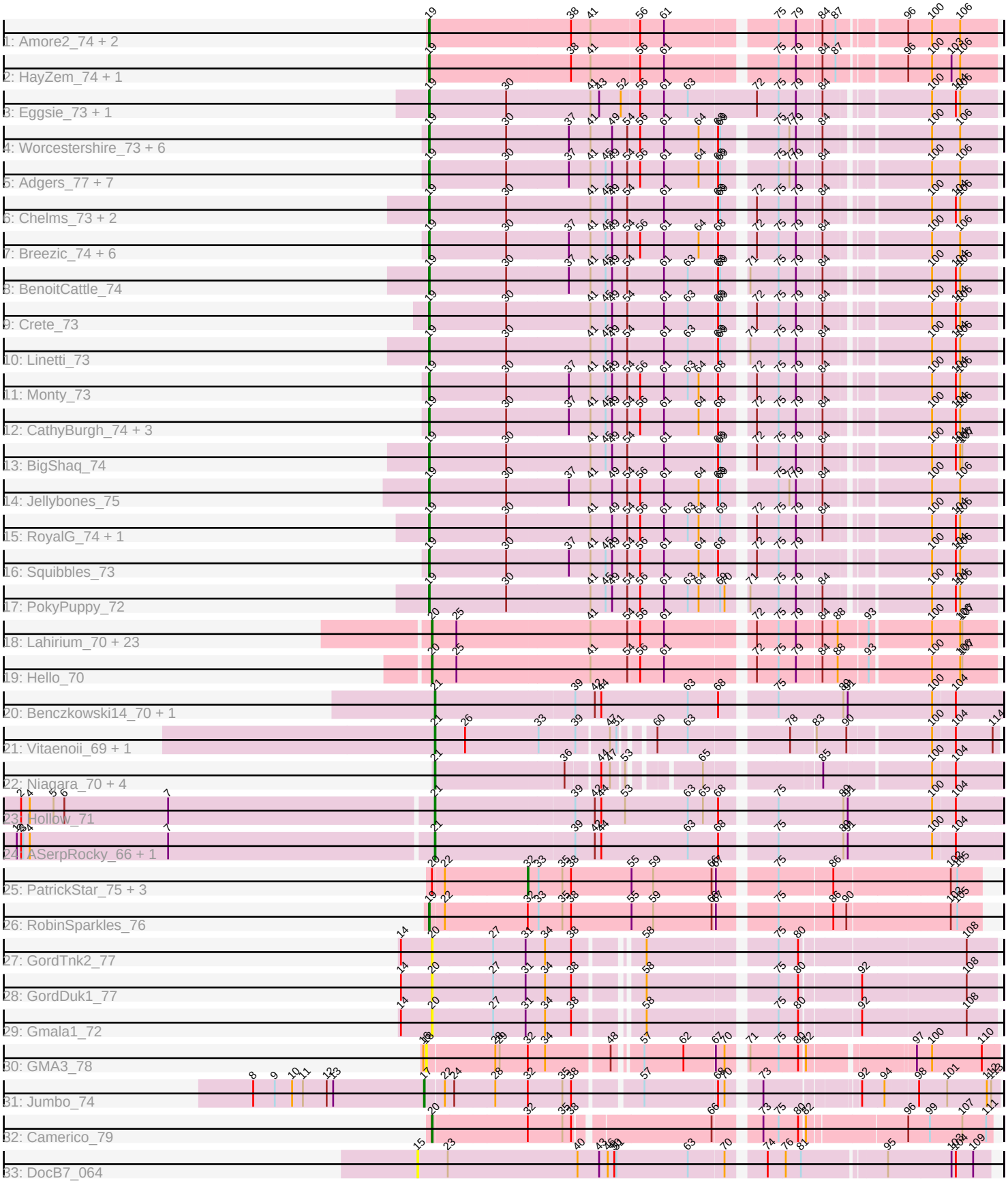
Pham 347474


1: Amore2_74 + 2
2: HayZem_74 + 1
3: Eggsie_73 + 1
4: Worcestershire_73 + 6
5: Adgers_77 + 7
6: Chelms_73 + 2
7: Breezic_74 + 6
8: BenoitCattle_74
9: Crete_73
10: Linetti_73
11: Monty_73
12: CathyBurgh_74 + 3
13: BigShaq_74
14: Jellybones_75
15: RoyalG_74 + 1
16: Squibbles_73
17: PokyPuppy_72
18: Lahirium_70 + 23
19: Hello_70
20: Benczkowski14_70 + 1
21: Vitaenoii_69 + 1
22: Niagara_70 + 4
23: Hollow_71
24: ASerpRocky_66 + 1
25: PatrickStar_75 + 3
26: RobinSparkles_76
27: GordTnk2_77
28: GordDuk1_77
29: Gmala1_72
30: GMA3_78
31: Jumbo_74
32: Camerico_79
33: DocB7_064

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 347474 Report

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

Pham number 347474 has 95 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Amore2_74, Austin_73, GTE7_62
• Track 2 : HayZem_74, GMA7_63
• Track 3 : Eggsie_73, Diabla_79
• Track 4 : Worcestershire_73, CinnamonToast_78, Barbochs_71, Sam12_73, Exiguo_73, RemRem_75, BillyBobJr_78
• Track 5 : Adgers_77, Sombrero_75, BirksAndSocks_78, Poland_78, Msay19_78, Butterball_76, Boneham_77, FelixAlejandro_78
• Track 6 : Chelms_73, Dakiti_74, PierreThree_72
• Track 7 : Breezic_74, Kelzog_75, Gorko_73, John316_77, Beaver_77, Flakey_73, Ekhein_74
• Track 8 : BenoitCattle_74
• Track 9 : Crete_73
• Track 10 : Linetti_73
• Track 11 : Monty_73
• Track 12 : CathyBurgh_74, Hotorobo_74, Lizzo_74, GourdThymes_74
• Track 13 : BigShaq_74
• Track 14 : Jellybones_75
• Track 15 : RoyalG_74, SteveFrench_73
• Track 16 : Squibbles_73
• Track 17 : PokyPuppy_72
• Track 18 : Lahirium_70, Hail2Pitt_69, Berries_71, Neoevie_70, GalacticEye_71, Guillaume_70, Charianelly_71, Damp_71, MrWormie_71, Newt_72, Teal_70, Sticker17_71, Kaseim_71, Harambe_70, Bianmat_71, Lidong_71, Woes_70, Jormungandr_70, Luker_72, Jams_71, Minos_72, Anamika_70, Nimi13_70, Shelley_71
• Track 19 : Hello_70
• Track 20 : Benczkowski14_70, Katyusha_69
• Track 21 : Vitaenoii_69, Philon9_69
• Track 22 : Niagara_70, Kvothe_69, Tredge_70, Teech_71, Teatealatte_71
• Track 23 : Hollow_71
• Track 24 : ASerpRocky_66, Demosthenes_66
• Track 25 : PatrickStar_75, Orchid_74, Gibbles_72, Kampe_75
• Track 26 : RobinSparkles_76
• Track 27 : GordTnk2_77
• Track 28 : GordDuk1_77
• Track 29 : Gmala1_72
• Track 30 : GMA3_78

• Track 31 : Jumbo_74
• Track 32 : Camerico_79
• Track 33 : DocB7_064

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

The start number called the most often in the published annotations is 19, it was called in 42 of the 85 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adgers_77, Amore2_74, Austin_73, Barbochs_71, Beaver_77, BenoitCattle_74, BigShaq_74, BillyBobJr_78, BirksAndSocks_78, Boneham_77, Breezic_74, Butterball_76, CathyBurgh_74, Chelms_73, CinnamonToast_78, Crete_73, Dakiti_74, Diabla_79, Eggsie_73, Ekhein_74, Exiguo_73, FelixAlejandro_78, Flakey_73, GMA7_63, GTE7_62, Gorko_73, GourdThymes_74, HayZem_74, Hotorobo_74, Jellybones_75, John316_77, Kelzog_75, Linetti_73, Lizzo_74, Monty_73, Msay19_78, PierreThree_72, PokyPuppy_72, Poland_78, RemRem_75, RobinSparkles_76, RoyalG_74, Sam12_73, Sombrero_75, Squibbles_73, SteveFrench_73, Worcestershire_73,

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

Genes that do not have the "Most Annotated" start:
• ASerpRocky_66, Anamika_70, Benczkowski14_70, Berries_71, Bianmat_71, Camerico_79, Charianelly_71, Damp_71, Demosthenes_66, DocB7_064, GMA3_78, GalacticEye_71, Gibbles_72, Gmala1_72, GordDuk1_77, GordTnk2_77, Guillaume_70, Hail2Pitt_69, Harambe_70, Hello_70, Hollow_71, Jams_71, Jormungandr_70, Jumbo_74, Kampe_75, Kaseim_71, Katyusha_69, Kvothe_69, Lahirium_70, Lidong_71, Luker_72, Minos_72, MrWormie_71, Neoevie_70, Newt_72, Niagara_70, Nimi13_70, Orchid_74, PatrickStar_75, Philon9_69, Shelley_71, Sticker17_71, Teal_70, Teatealatte_71, Teech_71, Tredge_70, Vitaenoii_69, Woes_70,

Summary by start number:

Start 15:
• Found in 1 of 95 (1.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DocB7_064 (singleton),

Start 17:
• Found in 1 of 95 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 85
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jumbo_74 (DF3),

Start 18:
• Found in 1 of 95 (1.1%) of genes in pham

• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA3_78 (DF2),

Start 19:
• Found in 47 of 95 (49.5%) of genes in pham
• Manual Annotations of this start: 42 of 85
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adgers_77 (CS2), Amore2_74 (CS1), Austin_73 (CS1), Barbochs_71 (CS2), Beaver_77 (CS2), BenoitCattle_74 (CS2), BigShaq_74 (CS2), BillyBobJr_78 (CS2), BirksAndSocks_78 (CS2), Boneham_77 (CS2), Breezic_74 (CS2), Butterball_76 (CS2), CathyBurgh_74 (CS2), Chelms_73 (CS2), CinnamonToast_78 (CS2), Crete_73 (CS2), Dakiti_74 (CS2), Diabla_79 (CS2), Eggsie_73 (CS2), Ekhein_74 (CS2), Exiguo_73 (CS2), FelixAlejandro_78 (CS2), Flakey_73 (CS2), GMA7_63 (CS1), GTE7_62 (CS1), Gorko_73 (CS2), GourdThymes_74 (CS2), HayZem_74 (CS1), Hotorobo_74 (CS2), Jellybones_75 (CS2), John316_77 (CS2), Kelzog_75 (CS2), Linetti_73 (CS2), Lizzo_74 (CS2), Monty_73 (CS2), Msay19_78 (CS2), PierreThree_72 (CS2), PokyPuppy_72 (CS2), Poland_78 (CS2), RemRem_75 (CS2), RobinSparkles_76 (CX), RoyalG_74 (CS2), Sam12_73 (CS2), Sombrero_75 (CS2), Squibbles_73 (CS2), SteveFrench_73 (CS2), Worcestershire_73 (CS2),

Start 20:
• Found in 33 of 95 (34.7%) of genes in pham
• Manual Annotations of this start: 26 of 85
• Called 87.9% of time when present
• Phage (with cluster) where this start called: Anamika_70 (CS3), Berries_71 (CS3), Bianmat_71 (CS3), Camerico_79 (DF4), Charianelly_71 (CS3), Damp_71 (CS3), GalacticEye_71 (CS3), Gmala1_72 (DF1), GordDuk1_77 (DF1), GordTnk2_77 (DF1), Guillaume_70 (CS3), Hail2Pitt_69 (CS3), Harambe_70 (CS3), Hello_70 (CS3), Jams_71 (CS3), Jormungandr_70 (CS3), Kaseim_71 (CS3), Lahirium_70 (CS3), Lidong_71 (CS3), Luker_72 (CS3), Minos_72 (CS3), MrWormie_71 (CS3), Neoevie_70 (CS3), Newt_72 (CS3), Nimi13_70 (CS3), Shelley_71 (CS3), Sticker17_71 (CS3), Teal_70 (CS3), Woes_70 (CS3),

Start 21:
• Found in 12 of 95 (12.6%) of genes in pham
• Manual Annotations of this start: 12 of 85
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASerpRocky_66 (CS4), Benczkowski14_70 (CS4), Demosthenes_66 (CS4), Hollow_71 (CS4), Katyusha_69 (CS4), Kvothe_69 (CS4), Niagara_70 (CS4), Philon9_69 (CS4), Teatealatte_71 (CS4), Teech_71 (CS4), Tredge_70 (CS4), Vitaenoii_69 (CS4),

Start 32:
• Found in 8 of 95 (8.4%) of genes in pham
• Manual Annotations of this start: 4 of 85
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Gibbles_72 (CX), Kampe_75 (CX), Orchid_74 (CX), PatrickStar_75 (CX),

Summary by clusters:

There are 10 clusters represented in this pham: singleton, DF4, DF1, DF3, DF2, CX, CS4, CS1, CS3, CS2,

Info for manual annotations of cluster CS1:
•Start number 19 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 19 was manually annotated 38 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 20 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster CS4:
•Start number 21 was manually annotated 12 times for cluster CS4.

Info for manual annotations of cluster CX:
•Start number 19 was manually annotated 1 time for cluster CX.
•Start number 32 was manually annotated 4 times for cluster CX.

Info for manual annotations of cluster DF3:
•Start number 17 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:
•Start number 20 was manually annotated 1 time for cluster DF4.

Gene Information:

Gene: ASerpRocky_66 Start: 58829, Stop: 58071, Start Num: 21
Candidate Starts for ASerpRocky_66:
(1, 59399), (2, 59393), (3, 59390), (4, 59381), (7, 59189), (Start: 21 @58829 has 12 MA's), (39, 58640), (42, 58613), (44, 58604), (63, 58484), (68, 58442), (75, 58376), (89, 58286), (91, 58280), (100, 58163), (104, 58133),

Gene: Adgers_77 Start: 59651, Stop: 58923, Start Num: 19
Candidate Starts for Adgers_77:
(Start: 19 @59651 has 42 MA's), (30, 59546), (37, 59462), (41, 59432), (45, 59411), (49, 59402), (54, 59381), (56, 59366), (61, 59333), (64, 59285), (68, 59261), (69, 59258), (75, 59195), (77, 59180), (79, 59171), (84, 59138), (100, 59012), (106, 58973),

Gene: Amore2_74 Start: 59188, Stop: 58454, Start Num: 19
Candidate Starts for Amore2_74:
(Start: 19 @59188 has 42 MA's), (38, 58996), (41, 58969), (56, 58903), (61, 58870), (75, 58732), (79, 58708), (84, 58675), (87, 58657), (96, 58576), (100, 58543), (106, 58504),

Gene: Anamika_70 Start: 59702, Stop: 58965, Start Num: 20
Candidate Starts for Anamika_70:
(Start: 20 @59702 has 26 MA's), (25, 59669), (41, 59486), (54, 59435), (56, 59420), (61, 59387), (72, 59279), (75, 59249), (79, 59225), (84, 59192), (88, 59171), (93, 59135), (100, 59054), (106, 59015), (107, 59012),

Gene: Austin_73 Start: 59186, Stop: 58452, Start Num: 19
Candidate Starts for Austin_73:
(Start: 19 @59186 has 42 MA's), (38, 58994), (41, 58967), (56, 58901), (61, 58868), (75, 58730), (79, 58706), (84, 58673), (87, 58655), (96, 58574), (100, 58541), (106, 58502),

Gene: Barbochs_71 Start: 59025, Stop: 58297, Start Num: 19
Candidate Starts for Barbochs_71:
(Start: 19 @59025 has 42 MA's), (30, 58920), (37, 58836), (41, 58806), (49, 58776), (54, 58755), (56, 58740), (61, 58707), (64, 58659), (68, 58635), (69, 58632), (75, 58569), (77, 58554), (79, 58545), (84, 58512), (100, 58386), (106, 58347),

Gene: Beaver_77 Start: 60963, Stop: 60235, Start Num: 19
Candidate Starts for Beaver_77:
(Start: 19 @60963 has 42 MA's), (30, 60858), (37, 60774), (41, 60744), (45, 60723), (49, 60714), (54, 60693), (56, 60678), (61, 60645), (64, 60597), (68, 60573), (72, 60537), (75, 60507), (79, 60483), (84, 60450), (100, 60324), (106, 60285),

Gene: Benczkowski14_70 Start: 59662, Stop: 58901, Start Num: 21
Candidate Starts for Benczkowski14_70:
(Start: 21 @59662 has 12 MA's), (39, 59473), (42, 59446), (44, 59437), (63, 59317), (68, 59275), (75, 59209), (89, 59119), (91, 59113), (100, 58996), (104, 58966),

Gene: BenoitCattle_74 Start: 59628, Stop: 58900, Start Num: 19
Candidate Starts for BenoitCattle_74:
(Start: 19 @59628 has 42 MA's), (30, 59523), (37, 59439), (41, 59409), (45, 59388), (49, 59379), (54, 59358), (61, 59310), (63, 59277), (68, 59238), (69, 59235), (71, 59211), (75, 59172), (79, 59148), (84, 59115), (100, 58989), (104, 58956), (106, 58950),

Gene: Berries_71 Start: 59674, Stop: 58937, Start Num: 20
Candidate Starts for Berries_71:
(Start: 20 @59674 has 26 MA's), (25, 59641), (41, 59458), (54, 59407), (56, 59392), (61, 59359), (72, 59251), (75, 59221), (79, 59197), (84, 59164), (88, 59143), (93, 59107), (100, 59026), (106, 58987), (107, 58984),

Gene: Bianmat_71 Start: 59714, Stop: 58977, Start Num: 20
Candidate Starts for Bianmat_71:
(Start: 20 @59714 has 26 MA's), (25, 59681), (41, 59498), (54, 59447), (56, 59432), (61, 59399), (72, 59291), (75, 59261), (79, 59237), (84, 59204), (88, 59183), (93, 59147), (100, 59066), (106, 59027), (107, 59024),

Gene: BigShaq_74 Start: 59632, Stop: 58904, Start Num: 19
Candidate Starts for BigShaq_74:
(Start: 19 @59632 has 42 MA's), (30, 59527), (41, 59413), (45, 59392), (49, 59383), (54, 59362), (61, 59314), (68, 59242), (69, 59239), (72, 59206), (75, 59176), (79, 59152), (84, 59119), (100, 58993), (104, 58960), (106, 58954), (107, 58951),

Gene: BillyBobJr_78 Start: 61105, Stop: 60377, Start Num: 19
Candidate Starts for BillyBobJr_78:
(Start: 19 @61105 has 42 MA's), (30, 61000), (37, 60916), (41, 60886), (49, 60856), (54, 60835), (56, 60820), (61, 60787), (64, 60739), (68, 60715), (69, 60712), (75, 60649), (77, 60634), (79, 60625), (84, 60592), (100, 60466), (106, 60427),

Gene: BirksAndSocks_78 Start: 61109, Stop: 60381, Start Num: 19
Candidate Starts for BirksAndSocks_78:
(Start: 19 @61109 has 42 MA's), (30, 61004), (37, 60920), (41, 60890), (45, 60869), (49, 60860), (54, 60839), (56, 60824), (61, 60791), (64, 60743), (68, 60719), (69, 60716), (75, 60653), (77, 60638), (79, 60629), (84, 60596), (100, 60470), (106, 60431),

Gene: Boneham_77 Start: 61034, Stop: 60306, Start Num: 19
Candidate Starts for Boneham_77:
(Start: 19 @61034 has 42 MA's), (30, 60929), (37, 60845), (41, 60815), (45, 60794), (49, 60785), (54, 60764), (56, 60749), (61, 60716), (64, 60668), (68, 60644), (69, 60641), (75, 60578), (77, 60563), (79, 60554), (84, 60521), (100, 60395), (106, 60356),

Gene: Breezic_74 Start: 59206, Stop: 58478, Start Num: 19
Candidate Starts for Breezic_74:
(Start: 19 @59206 has 42 MA's), (30, 59101), (37, 59017), (41, 58987), (45, 58966), (49, 58957), (54, 58936), (56, 58921), (61, 58888), (64, 58840), (68, 58816), (72, 58780), (75, 58750), (79, 58726), (84, 58693), (100, 58567), (106, 58528),

Gene: Butterball_76 Start: 61039, Stop: 60311, Start Num: 19
Candidate Starts for Butterball_76:
(Start: 19 @61039 has 42 MA's), (30, 60934), (37, 60850), (41, 60820), (45, 60799), (49, 60790), (54, 60769), (56, 60754), (61, 60721), (64, 60673), (68, 60649), (69, 60646), (75, 60583), (77, 60568), (79, 60559), (84, 60526), (100, 60400), (106, 60361),

Gene: Camerico_79 Start: 62830, Stop: 62123, Start Num: 20
Candidate Starts for Camerico_79:
(Start: 20 @62830 has 26 MA's), (Start: 32 @62704 has 4 MA's), (35, 62656), (38, 62644), (66, 62473), (73, 62422), (75, 62401), (80, 62374), (82, 62368), (96, 62239), (99, 62209), (107, 62164), (111, 62131),

Gene: CathyBurgh_74 Start: 59714, Stop: 58986, Start Num: 19
Candidate Starts for CathyBurgh_74:
(Start: 19 @59714 has 42 MA's), (30, 59609), (37, 59525), (41, 59495), (45, 59474), (49, 59465), (54, 59444), (56, 59429), (61, 59396), (64, 59348), (68, 59324), (72, 59288), (75, 59258), (79, 59234), (84, 59201), (100, 59075), (104, 59042), (106, 59036),

Gene: Charianelly_71 Start: 59424, Stop: 58687, Start Num: 20
Candidate Starts for Charianelly_71:
(Start: 20 @59424 has 26 MA's), (25, 59391), (41, 59208), (54, 59157), (56, 59142), (61, 59109), (72, 59001), (75, 58971), (79, 58947), (84, 58914), (88, 58893), (93, 58857), (100, 58776), (106, 58737), (107, 58734),

Gene: Chelms_73 Start: 59571, Stop: 58843, Start Num: 19
Candidate Starts for Chelms_73:
(Start: 19 @59571 has 42 MA's), (30, 59466), (41, 59352), (45, 59331), (49, 59322), (54, 59301), (61, 59253), (68, 59181), (69, 59178), (72, 59145), (75, 59115), (79, 59091), (84, 59058), (100, 58932), (104, 58899), (106, 58893),

Gene: CinnamonToast_78 Start: 61105, Stop: 60377, Start Num: 19
Candidate Starts for CinnamonToast_78:
(Start: 19 @61105 has 42 MA's), (30, 61000), (37, 60916), (41, 60886), (49, 60856), (54, 60835), (56, 60820), (61, 60787), (64, 60739), (68, 60715), (69, 60712), (75, 60649), (77, 60634), (79, 60625), (84, 60592), (100, 60466), (106, 60427),

Gene: Crete_73 Start: 59690, Stop: 58962, Start Num: 19
Candidate Starts for Crete_73:
(Start: 19 @59690 has 42 MA's), (30, 59585), (41, 59471), (45, 59450), (49, 59441), (54, 59420), (61, 59372), (63, 59339), (68, 59300), (69, 59297), (72, 59264), (75, 59234), (79, 59210), (84, 59177), (100, 59051), (104, 59018), (106, 59012),

Gene: Dakiti_74 Start: 60439, Stop: 59711, Start Num: 19
Candidate Starts for Dakiti_74:
(Start: 19 @60439 has 42 MA's), (30, 60334), (41, 60220), (45, 60199), (49, 60190), (54, 60169), (61, 60121), (68, 60049), (69, 60046), (72, 60013), (75, 59983), (79, 59959), (84, 59926), (100, 59800), (104, 59767), (106, 59761),

Gene: Damp_71 Start: 58588, Stop: 57851, Start Num: 20
Candidate Starts for Damp_71:
(Start: 20 @58588 has 26 MA's), (25, 58555), (41, 58372), (54, 58321), (56, 58306), (61, 58273), (72, 58165), (75, 58135), (79, 58111), (84, 58078), (88, 58057), (93, 58021), (100, 57940), (106, 57901), (107, 57898),

Gene: Demosthenes_66 Start: 58802, Stop: 58044, Start Num: 21
Candidate Starts for Demosthenes_66:
(1, 59372), (2, 59366), (3, 59363), (4, 59354), (7, 59162), (Start: 21 @58802 has 12 MA's), (39, 58613), (42, 58586), (44, 58577), (63, 58457), (68, 58415), (75, 58349), (89, 58259), (91, 58253), (100, 58136), (104, 58106),

Gene: Diabla_79 Start: 61134, Stop: 60388, Start Num: 19
Candidate Starts for Diabla_79:
(Start: 19 @61134 has 42 MA's), (30, 61029), (41, 60915), (43, 60903), (52, 60873), (56, 60849), (61, 60816), (63, 60783), (72, 60690), (75, 60660), (79, 60636), (84, 60603), (100, 60477), (104, 60444), (106, 60438),

Gene: DocB7_064 Start: 51524, Stop: 50766, Start Num: 15
Candidate Starts for DocB7_064:
(15, 51524), (23, 51482), (40, 51302), (43, 51272), (46, 51260), (50, 51251), (51, 51248), (63, 51149), (70, 51101), (74, 51059), (76, 51035), (81, 51014), (95, 50906), (103, 50819), (104, 50813), (109, 50789),

Gene: Eggsie_73 Start: 58935, Stop: 58189, Start Num: 19
Candidate Starts for Eggsie_73:
(Start: 19 @58935 has 42 MA's), (30, 58830), (41, 58716), (43, 58704), (52, 58674), (56, 58650), (61, 58617), (63, 58584), (72, 58491), (75, 58461), (79, 58437), (84, 58404), (100, 58278), (104, 58245), (106, 58239),

Gene: Ekhein_74 Start: 58905, Stop: 58177, Start Num: 19
Candidate Starts for Ekhein_74:
(Start: 19 @58905 has 42 MA's), (30, 58800), (37, 58716), (41, 58686), (45, 58665), (49, 58656), (54, 58635), (56, 58620), (61, 58587), (64, 58539), (68, 58515), (72, 58479), (75, 58449), (79, 58425), (84, 58392), (100, 58266), (106, 58227),

Gene: Exiguo_73 Start: 58941, Stop: 58213, Start Num: 19
Candidate Starts for Exiguo_73:
(Start: 19 @58941 has 42 MA's), (30, 58836), (37, 58752), (41, 58722), (49, 58692), (54, 58671), (56, 58656), (61, 58623), (64, 58575), (68, 58551), (69, 58548), (75, 58485), (77, 58470), (79, 58461), (84,

58428), (100, 58302), (106, 58263),

Gene: FelixAlejandro_78 Start: 61437, Stop: 60709, Start Num: 19
Candidate Starts for FelixAlejandro_78:
(Start: 19 @61437 has 42 MA's), (30, 61332), (37, 61248), (41, 61218), (45, 61197), (49, 61188), (54, 61167), (56, 61152), (61, 61119), (64, 61071), (68, 61047), (69, 61044), (75, 60981), (77, 60966), (79, 60957), (84, 60924), (100, 60798), (106, 60759),

Gene: Flakey_73 Start: 59700, Stop: 58972, Start Num: 19
Candidate Starts for Flakey_73:
(Start: 19 @59700 has 42 MA's), (30, 59595), (37, 59511), (41, 59481), (45, 59460), (49, 59451), (54, 59430), (56, 59415), (61, 59382), (64, 59334), (68, 59310), (72, 59274), (75, 59244), (79, 59220), (84, 59187), (100, 59061), (106, 59022),

Gene: GMA3_78 Start: 59571, Stop: 58867, Start Num: 18
Candidate Starts for GMA3_78:
(16, 59574), (18, 59571), (28, 59484), (29, 59478), (Start: 32 @59439 has 4 MA's), (34, 59415), (48, 59334), (57, 59304), (62, 59250), (67, 59208), (70, 59196), (71, 59178), (75, 59139), (80, 59115), (82, 59109), (97, 58980), (100, 58959), (110, 58890),

Gene: GMA7_63 Start: 53402, Stop: 52668, Start Num: 19
Candidate Starts for GMA7_63:
(Start: 19 @53402 has 42 MA's), (38, 53210), (41, 53183), (56, 53117), (61, 53084), (75, 52946), (79, 52922), (84, 52889), (87, 52871), (96, 52790), (100, 52757), (103, 52730), (106, 52718),

Gene: GTE7_62 Start: 53433, Stop: 52699, Start Num: 19
Candidate Starts for GTE7_62:
(Start: 19 @53433 has 42 MA's), (38, 53241), (41, 53214), (56, 53148), (61, 53115), (75, 52977), (79, 52953), (84, 52920), (87, 52902), (96, 52821), (100, 52788), (106, 52749),

Gene: GalacticEye_71 Start: 59385, Stop: 58648, Start Num: 20
Candidate Starts for GalacticEye_71:
(Start: 20 @59385 has 26 MA's), (25, 59352), (41, 59169), (54, 59118), (56, 59103), (61, 59070), (72, 58962), (75, 58932), (79, 58908), (84, 58875), (88, 58854), (93, 58818), (100, 58737), (106, 58698), (107, 58695),

Gene: Gibbles_72 Start: 58398, Stop: 57805, Start Num: 32
Candidate Starts for Gibbles_72:
(Start: 20 @58524 has 26 MA's), (22, 58509), (Start: 32 @58398 has 4 MA's), (33, 58383), (35, 58350), (38, 58338), (55, 58254), (59, 58224), (66, 58143), (67, 58140), (75, 58071), (86, 57999), (102, 57846), (105, 57837),

Gene: Gmala1_72 Start: 57511, Stop: 56801, Start Num: 20
Candidate Starts for Gmala1_72:
(14, 57553), (Start: 20 @57511 has 26 MA's), (27, 57430), (31, 57385), (34, 57358), (38, 57322), (58, 57244), (75, 57082), (80, 57058), (92, 56983), (108, 56842),

Gene: GordDuk1_77 Start: 58301, Stop: 57591, Start Num: 20
Candidate Starts for GordDuk1_77:
(14, 58343), (Start: 20 @58301 has 26 MA's), (27, 58220), (31, 58175), (34, 58148), (38, 58112), (58, 58034), (75, 57872), (80, 57848), (92, 57773), (108, 57632),

Gene: GordTnk2_77 Start: 58231, Stop: 57521, Start Num: 20

Candidate Starts for GordTnk2_77:
(14, 58273), (Start: 20 @58231 has 26 MA's), (27, 58150), (31, 58105), (34, 58078), (38, 58042), (58, 57964), (75, 57802), (80, 57778), (108, 57562),

Gene: Gorko_73 Start: 58846, Stop: 58118, Start Num: 19
Candidate Starts for Gorko_73:
(Start: 19 @58846 has 42 MA's), (30, 58741), (37, 58657), (41, 58627), (45, 58606), (49, 58597), (54, 58576), (56, 58561), (61, 58528), (64, 58480), (68, 58456), (72, 58420), (75, 58390), (79, 58366), (84, 58333), (100, 58207), (106, 58168),

Gene: GourdThymes_74 Start: 59801, Stop: 59073, Start Num: 19
Candidate Starts for GourdThymes_74:
(Start: 19 @59801 has 42 MA's), (30, 59696), (37, 59612), (41, 59582), (45, 59561), (49, 59552), (54, 59531), (56, 59516), (61, 59483), (64, 59435), (68, 59411), (72, 59375), (75, 59345), (79, 59321), (84, 59288), (100, 59162), (104, 59129), (106, 59123),

Gene: Guillaume_70 Start: 59435, Stop: 58698, Start Num: 20
Candidate Starts for Guillaume_70:
(Start: 20 @59435 has 26 MA's), (25, 59402), (41, 59219), (54, 59168), (56, 59153), (61, 59120), (72, 59012), (75, 58982), (79, 58958), (84, 58925), (88, 58904), (93, 58868), (100, 58787), (106, 58748), (107, 58745),

Gene: Hail2Pitt_69 Start: 59911, Stop: 59174, Start Num: 20
Candidate Starts for Hail2Pitt_69:
(Start: 20 @59911 has 26 MA's), (25, 59878), (41, 59695), (54, 59644), (56, 59629), (61, 59596), (72, 59488), (75, 59458), (79, 59434), (84, 59401), (88, 59380), (93, 59344), (100, 59263), (106, 59224), (107, 59221),

Gene: Harambe_70 Start: 59702, Stop: 58965, Start Num: 20
Candidate Starts for Harambe_70:
(Start: 20 @59702 has 26 MA's), (25, 59669), (41, 59486), (54, 59435), (56, 59420), (61, 59387), (72, 59279), (75, 59249), (79, 59225), (84, 59192), (88, 59171), (93, 59135), (100, 59054), (106, 59015), (107, 59012),

Gene: HayZem_74 Start: 59185, Stop: 58451, Start Num: 19
Candidate Starts for HayZem_74:
(Start: 19 @59185 has 42 MA's), (38, 58993), (41, 58966), (56, 58900), (61, 58867), (75, 58729), (79, 58705), (84, 58672), (87, 58654), (96, 58573), (100, 58540), (103, 58513), (106, 58501),

Gene: Hello_70 Start: 59664, Stop: 58927, Start Num: 20
Candidate Starts for Hello_70:
(Start: 20 @59664 has 26 MA's), (25, 59631), (41, 59448), (54, 59397), (56, 59382), (61, 59349), (72, 59241), (75, 59211), (79, 59187), (84, 59154), (88, 59133), (93, 59097), (100, 59016), (106, 58977), (107, 58974),

Gene: Hollow_71 Start: 59842, Stop: 59081, Start Num: 21
Candidate Starts for Hollow_71:
(2, 60406), (4, 60394), (5, 60361), (6, 60346), (7, 60202), (Start: 21 @59842 has 12 MA's), (39, 59653), (42, 59626), (44, 59617), (53, 59584), (63, 59497), (65, 59476), (68, 59455), (75, 59389), (89, 59299), (91, 59293), (100, 59176), (104, 59146),

Gene: Hotorobo_74 Start: 59788, Stop: 59060, Start Num: 19
Candidate Starts for Hotorobo_74:

(Start: 19 @59788 has 42 MA's), (30, 59683), (37, 59599), (41, 59569), (45, 59548), (49, 59539), (54, 59518), (56, 59503), (61, 59470), (64, 59422), (68, 59398), (72, 59362), (75, 59332), (79, 59308), (84, 59275), (100, 59149), (104, 59116), (106, 59110),

Gene: Jams_71 Start: 58874, Stop: 58137, Start Num: 20
Candidate Starts for Jams_71:
(Start: 20 @58874 has 26 MA's), (25, 58841), (41, 58658), (54, 58607), (56, 58592), (61, 58559), (72, 58451), (75, 58421), (79, 58397), (84, 58364), (88, 58343), (93, 58307), (100, 58226), (106, 58187), (107, 58184),

Gene: Jellybones_75 Start: 60722, Stop: 59994, Start Num: 19
Candidate Starts for Jellybones_75:
(Start: 19 @60722 has 42 MA's), (30, 60617), (37, 60533), (41, 60503), (49, 60473), (54, 60452), (56, 60437), (61, 60404), (64, 60356), (68, 60332), (69, 60329), (75, 60266), (77, 60251), (79, 60242), (84, 60209), (100, 60083), (106, 60044),

Gene: John316_77 Start: 60865, Stop: 60137, Start Num: 19
Candidate Starts for John316_77:
(Start: 19 @60865 has 42 MA's), (30, 60760), (37, 60676), (41, 60646), (45, 60625), (49, 60616), (54, 60595), (56, 60580), (61, 60547), (64, 60499), (68, 60475), (72, 60439), (75, 60409), (79, 60385), (84, 60352), (100, 60226), (106, 60187),

Gene: Jormungandr_70 Start: 59417, Stop: 58680, Start Num: 20
Candidate Starts for Jormungandr_70:
(Start: 20 @59417 has 26 MA's), (25, 59384), (41, 59201), (54, 59150), (56, 59135), (61, 59102), (72, 58994), (75, 58964), (79, 58940), (84, 58907), (88, 58886), (93, 58850), (100, 58769), (106, 58730), (107, 58727),

Gene: Jumbo_74 Start: 61893, Stop: 61174, Start Num: 17
Candidate Starts for Jumbo_74:
(8, 62130), (9, 62100), (10, 62076), (11, 62061), (12, 62028), (13, 62019), (Start: 17 @61893 has 1 MA's), (22, 61869), (24, 61857), (28, 61803), (Start: 32 @61758 has 4 MA's), (35, 61710), (38, 61698), (57, 61614), (68, 61515), (70, 61506), (73, 61470), (92, 61356), (94, 61326), (98, 61284), (101, 61245), (112, 61191), (113, 61185),

Gene: Kampe_75 Start: 58668, Stop: 58075, Start Num: 32
Candidate Starts for Kampe_75:
(Start: 20 @58794 has 26 MA's), (22, 58779), (Start: 32 @58668 has 4 MA's), (33, 58653), (35, 58620), (38, 58608), (55, 58524), (59, 58494), (66, 58413), (67, 58410), (75, 58341), (86, 58269), (102, 58116), (105, 58107),

Gene: Kaseim_71 Start: 58859, Stop: 58122, Start Num: 20
Candidate Starts for Kaseim_71:
(Start: 20 @58859 has 26 MA's), (25, 58826), (41, 58643), (54, 58592), (56, 58577), (61, 58544), (72, 58436), (75, 58406), (79, 58382), (84, 58349), (88, 58328), (93, 58292), (100, 58211), (106, 58172), (107, 58169),

Gene: Katyusha_69 Start: 59662, Stop: 58901, Start Num: 21
Candidate Starts for Katyusha_69:
(Start: 21 @59662 has 12 MA's), (39, 59473), (42, 59446), (44, 59437), (63, 59317), (68, 59275), (75, 59209), (89, 59119), (91, 59113), (100, 58996), (104, 58966),

Gene: Kelzog_75 Start: 59677, Stop: 58949, Start Num: 19

Candidate Starts for Kelzog_75:
(Start: 19 @59677 has 42 MA's), (30, 59572), (37, 59488), (41, 59458), (45, 59437), (49, 59428), (54, 59407), (56, 59392), (61, 59359), (64, 59311), (68, 59287), (72, 59251), (75, 59221), (79, 59197), (84, 59164), (100, 59038), (106, 58999),

Gene: Kvothe_69 Start: 59495, Stop: 58803, Start Num: 21
Candidate Starts for Kvothe_69:
(Start: 21 @59495 has 12 MA's), (36, 59321), (44, 59279), (47, 59267), (53, 59252), (65, 59174), (85, 59036), (100, 58898), (104, 58868),

Gene: Lahirium_70 Start: 59939, Stop: 59202, Start Num: 20
Candidate Starts for Lahirium_70:
(Start: 20 @59939 has 26 MA's), (25, 59906), (41, 59723), (54, 59672), (56, 59657), (61, 59624), (72, 59516), (75, 59486), (79, 59462), (84, 59429), (88, 59408), (93, 59372), (100, 59291), (106, 59252), (107, 59249),

Gene: Lidong_71 Start: 59674, Stop: 58937, Start Num: 20
Candidate Starts for Lidong_71:
(Start: 20 @59674 has 26 MA's), (25, 59641), (41, 59458), (54, 59407), (56, 59392), (61, 59359), (72, 59251), (75, 59221), (79, 59197), (84, 59164), (88, 59143), (93, 59107), (100, 59026), (106, 58987), (107, 58984),

Gene: Linetti_73 Start: 60593, Stop: 59865, Start Num: 19
Candidate Starts for Linetti_73:
(Start: 19 @60593 has 42 MA's), (30, 60488), (41, 60374), (45, 60353), (49, 60344), (54, 60323), (61, 60275), (63, 60242), (68, 60203), (69, 60200), (71, 60176), (75, 60137), (79, 60113), (84, 60080), (100, 59954), (104, 59921), (106, 59915),

Gene: Lizzo_74 Start: 59714, Stop: 58986, Start Num: 19
Candidate Starts for Lizzo_74:
(Start: 19 @59714 has 42 MA's), (30, 59609), (37, 59525), (41, 59495), (45, 59474), (49, 59465), (54, 59444), (56, 59429), (61, 59396), (64, 59348), (68, 59324), (72, 59288), (75, 59258), (79, 59234), (84, 59201), (100, 59075), (104, 59042), (106, 59036),

Gene: Luker_72 Start: 59892, Stop: 59155, Start Num: 20
Candidate Starts for Luker_72:
(Start: 20 @59892 has 26 MA's), (25, 59859), (41, 59676), (54, 59625), (56, 59610), (61, 59577), (72, 59469), (75, 59439), (79, 59415), (84, 59382), (88, 59361), (93, 59325), (100, 59244), (106, 59205), (107, 59202),

Gene: Minos_72 Start: 59416, Stop: 58679, Start Num: 20
Candidate Starts for Minos_72:
(Start: 20 @59416 has 26 MA's), (25, 59383), (41, 59200), (54, 59149), (56, 59134), (61, 59101), (72, 58993), (75, 58963), (79, 58939), (84, 58906), (88, 58885), (93, 58849), (100, 58768), (106, 58729), (107, 58726),

Gene: Monty_73 Start: 58927, Stop: 58199, Start Num: 19
Candidate Starts for Monty_73:
(Start: 19 @58927 has 42 MA's), (30, 58822), (37, 58738), (41, 58708), (45, 58687), (49, 58678), (54, 58657), (56, 58642), (61, 58609), (63, 58576), (64, 58561), (68, 58537), (72, 58501), (75, 58471), (79, 58447), (84, 58414), (100, 58288), (104, 58255), (106, 58249),

Gene: MrWormie_71 Start: 58577, Stop: 57840, Start Num: 20

Candidate Starts for MrWormie_71:
(Start: 20 @58577 has 26 MA's), (25, 58544), (41, 58361), (54, 58310), (56, 58295), (61, 58262), (72, 58154), (75, 58124), (79, 58100), (84, 58067), (88, 58046), (93, 58010), (100, 57929), (106, 57890), (107, 57887),

Gene: Msay19_78 Start: 61323, Stop: 60595, Start Num: 19
Candidate Starts for Msay19_78:
(Start: 19 @61323 has 42 MA's), (30, 61218), (37, 61134), (41, 61104), (45, 61083), (49, 61074), (54, 61053), (56, 61038), (61, 61005), (64, 60957), (68, 60933), (69, 60930), (75, 60867), (77, 60852), (79, 60843), (84, 60810), (100, 60684), (106, 60645),

Gene: Neoevie_70 Start: 59678, Stop: 58941, Start Num: 20
Candidate Starts for Neoevie_70:
(Start: 20 @59678 has 26 MA's), (25, 59645), (41, 59462), (54, 59411), (56, 59396), (61, 59363), (72, 59255), (75, 59225), (79, 59201), (84, 59168), (88, 59147), (93, 59111), (100, 59030), (106, 58991), (107, 58988),

Gene: Newt_72 Start: 59906, Stop: 59169, Start Num: 20
Candidate Starts for Newt_72:
(Start: 20 @59906 has 26 MA's), (25, 59873), (41, 59690), (54, 59639), (56, 59624), (61, 59591), (72, 59483), (75, 59453), (79, 59429), (84, 59396), (88, 59375), (93, 59339), (100, 59258), (106, 59219), (107, 59216),

Gene: Niagara_70 Start: 59586, Stop: 58894, Start Num: 21
Candidate Starts for Niagara_70:
(Start: 21 @59586 has 12 MA's), (36, 59412), (44, 59370), (47, 59358), (53, 59343), (65, 59265), (85, 59127), (100, 58989), (104, 58959),

Gene: Nimi13_70 Start: 59425, Stop: 58688, Start Num: 20
Candidate Starts for Nimi13_70:
(Start: 20 @59425 has 26 MA's), (25, 59392), (41, 59209), (54, 59158), (56, 59143), (61, 59110), (72, 59002), (75, 58972), (79, 58948), (84, 58915), (88, 58894), (93, 58858), (100, 58777), (106, 58738), (107, 58735),

Gene: Orchid_74 Start: 58669, Stop: 58076, Start Num: 32
Candidate Starts for Orchid_74:
(Start: 20 @58795 has 26 MA's), (22, 58780), (Start: 32 @58669 has 4 MA's), (33, 58654), (35, 58621), (38, 58609), (55, 58525), (59, 58495), (66, 58414), (67, 58411), (75, 58342), (86, 58270), (102, 58117), (105, 58108),

Gene: PatrickStar_75 Start: 58668, Stop: 58075, Start Num: 32
Candidate Starts for PatrickStar_75:
(Start: 20 @58794 has 26 MA's), (22, 58779), (Start: 32 @58668 has 4 MA's), (33, 58653), (35, 58620), (38, 58608), (55, 58524), (59, 58494), (66, 58413), (67, 58410), (75, 58341), (86, 58269), (102, 58116), (105, 58107),

Gene: Philon9_69 Start: 60466, Stop: 59765, Start Num: 21
Candidate Starts for Philon9_69:
(Start: 21 @60466 has 12 MA's), (26, 60424), (33, 60325), (39, 60277), (47, 60235), (51, 60226), (60, 60193), (63, 60151), (78, 60031), (83, 59998), (90, 59959), (100, 59854), (104, 59824), (114, 59773),

Gene: PierreThree_72 Start: 60070, Stop: 59342, Start Num: 19
Candidate Starts for PierreThree_72:

(Start: 19 @60070 has 42 MA's), (30, 59965), (41, 59851), (45, 59830), (49, 59821), (54, 59800), (61, 59752), (68, 59680), (69, 59677), (72, 59644), (75, 59614), (79, 59590), (84, 59557), (100, 59431), (104, 59398), (106, 59392),

Gene: PokyPuppy_72 Start: 59903, Stop: 59175, Start Num: 19
Candidate Starts for PokyPuppy_72:
(Start: 19 @59903 has 42 MA's), (30, 59798), (41, 59684), (45, 59663), (49, 59654), (54, 59633), (56, 59618), (61, 59585), (63, 59552), (64, 59537), (69, 59510), (70, 59504), (71, 59486), (75, 59447), (79, 59423), (84, 59390), (100, 59264), (104, 59231), (106, 59225),

Gene: Poland_78 Start: 61302, Stop: 60574, Start Num: 19
Candidate Starts for Poland_78:
(Start: 19 @61302 has 42 MA's), (30, 61197), (37, 61113), (41, 61083), (45, 61062), (49, 61053), (54, 61032), (56, 61017), (61, 60984), (64, 60936), (68, 60912), (69, 60909), (75, 60846), (77, 60831), (79, 60822), (84, 60789), (100, 60663), (106, 60624),

Gene: RemRem_75 Start: 58917, Stop: 58189, Start Num: 19
Candidate Starts for RemRem_75:
(Start: 19 @58917 has 42 MA's), (30, 58812), (37, 58728), (41, 58698), (49, 58668), (54, 58647), (56, 58632), (61, 58599), (64, 58551), (68, 58527), (69, 58524), (75, 58461), (77, 58446), (79, 58437), (84, 58404), (100, 58278), (106, 58239),

Gene: RobinSparkles_76 Start: 58696, Stop: 57974, Start Num: 19
Candidate Starts for RobinSparkles_76:
(Start: 19 @58696 has 42 MA's), (22, 58678), (Start: 32 @58567 has 4 MA's), (33, 58552), (35, 58519), (38, 58507), (55, 58423), (59, 58393), (66, 58312), (67, 58309), (75, 58240), (86, 58168), (90, 58150), (102, 58015), (105, 58006),

Gene: RoyalG_74 Start: 59574, Stop: 58846, Start Num: 19
Candidate Starts for RoyalG_74:
(Start: 19 @59574 has 42 MA's), (30, 59469), (41, 59355), (49, 59325), (54, 59304), (56, 59289), (61, 59256), (63, 59223), (64, 59208), (69, 59181), (72, 59148), (75, 59118), (79, 59094), (84, 59061), (100, 58935), (104, 58902), (106, 58896),

Gene: Sam12_73 Start: 58941, Stop: 58213, Start Num: 19
Candidate Starts for Sam12_73:
(Start: 19 @58941 has 42 MA's), (30, 58836), (37, 58752), (41, 58722), (49, 58692), (54, 58671), (56, 58656), (61, 58623), (64, 58575), (68, 58551), (69, 58548), (75, 58485), (77, 58470), (79, 58461), (84, 58428), (100, 58302), (106, 58263),

Gene: Shelley_71 Start: 58901, Stop: 58164, Start Num: 20
Candidate Starts for Shelley_71:
(Start: 20 @58901 has 26 MA's), (25, 58868), (41, 58685), (54, 58634), (56, 58619), (61, 58586), (72, 58478), (75, 58448), (79, 58424), (84, 58391), (88, 58370), (93, 58334), (100, 58253), (106, 58214), (107, 58211),

Gene: Sombrero_75 Start: 59514, Stop: 58786, Start Num: 19
Candidate Starts for Sombrero_75:
(Start: 19 @59514 has 42 MA's), (30, 59409), (37, 59325), (41, 59295), (45, 59274), (49, 59265), (54, 59244), (56, 59229), (61, 59196), (64, 59148), (68, 59124), (69, 59121), (75, 59058), (77, 59043), (79, 59034), (84, 59001), (100, 58875), (106, 58836),

Gene: Squibbles_73 Start: 59780, Stop: 59052, Start Num: 19

Candidate Starts for Squibbles_73:
(Start: 19 @59780 has 42 MA's), (30, 59675), (37, 59591), (41, 59561), (45, 59540), (49, 59531), (54, 59510), (56, 59495), (61, 59462), (64, 59414), (68, 59390), (72, 59354), (75, 59324), (79, 59300), (100, 59141), (104, 59108), (106, 59102),

Gene: SteveFrench_73 Start: 59814, Stop: 59086, Start Num: 19
Candidate Starts for SteveFrench_73:
(Start: 19 @59814 has 42 MA's), (30, 59709), (41, 59595), (49, 59565), (54, 59544), (56, 59529), (61, 59496), (63, 59463), (64, 59448), (69, 59421), (72, 59388), (75, 59358), (79, 59334), (84, 59301), (100, 59175), (104, 59142), (106, 59136),

Gene: Sticker17_71 Start: 59389, Stop: 58652, Start Num: 20
Candidate Starts for Sticker17_71:
(Start: 20 @59389 has 26 MA's), (25, 59356), (41, 59173), (54, 59122), (56, 59107), (61, 59074), (72, 58966), (75, 58936), (79, 58912), (84, 58879), (88, 58858), (93, 58822), (100, 58741), (106, 58702), (107, 58699),

Gene: Teal_70 Start: 59883, Stop: 59146, Start Num: 20
Candidate Starts for Teal_70:
(Start: 20 @59883 has 26 MA's), (25, 59850), (41, 59667), (54, 59616), (56, 59601), (61, 59568), (72, 59460), (75, 59430), (79, 59406), (84, 59373), (88, 59352), (93, 59316), (100, 59235), (106, 59196), (107, 59193),

Gene: Teatealatte_71 Start: 59483, Stop: 58791, Start Num: 21
Candidate Starts for Teatealatte_71:
(Start: 21 @59483 has 12 MA's), (36, 59309), (44, 59267), (47, 59255), (53, 59240), (65, 59162), (85, 59024), (100, 58886), (104, 58856),

Gene: Teech_71 Start: 59299, Stop: 58607, Start Num: 21
Candidate Starts for Teech_71:
(Start: 21 @59299 has 12 MA's), (36, 59125), (44, 59083), (47, 59071), (53, 59056), (65, 58978), (85, 58840), (100, 58702), (104, 58672),

Gene: Tredge_70 Start: 59483, Stop: 58791, Start Num: 21
Candidate Starts for Tredge_70:
(Start: 21 @59483 has 12 MA's), (36, 59309), (44, 59267), (47, 59255), (53, 59240), (65, 59162), (85, 59024), (100, 58886), (104, 58856),

Gene: Vitaenoii_69 Start: 60450, Stop: 59749, Start Num: 21
Candidate Starts for Vitaenoii_69:
(Start: 21 @60450 has 12 MA's), (26, 60408), (33, 60309), (39, 60261), (47, 60219), (51, 60210), (60, 60177), (63, 60135), (78, 60015), (83, 59982), (90, 59943), (100, 59838), (104, 59808), (114, 59757),

Gene: Woes_70 Start: 59934, Stop: 59197, Start Num: 20
Candidate Starts for Woes_70:
(Start: 20 @59934 has 26 MA's), (25, 59901), (41, 59718), (54, 59667), (56, 59652), (61, 59619), (72, 59511), (75, 59481), (79, 59457), (84, 59424), (88, 59403), (93, 59367), (100, 59286), (106, 59247), (107, 59244),

Gene: Worcestershire_73 Start: 58925, Stop: 58197, Start Num: 19
Candidate Starts for Worcestershire_73:
(Start: 19 @58925 has 42 MA's), (30, 58820), (37, 58736), (41, 58706), (49, 58676), (54, 58655), (56, 58640), (61, 58607), (64, 58559), (68, 58535), (69, 58532), (75, 58469), (77, 58454), (79, 58445), (84,

58412), (100, 58286), (106, 58247),