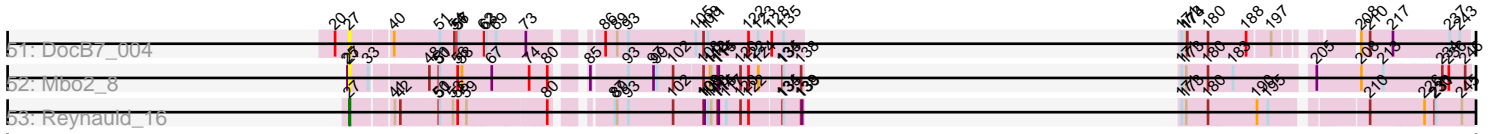


Pham 163511



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 163511 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163511 has 92 members, 22 are drafts.

Phages represented in each track:

- Track 1 : GMA7_3
- Track 2 : Austin_12, HayZem_12, Amore2_12
- Track 3 : GTE7_3
- Track 4 : Chelms_11
- Track 5 : SteveFrench_10
- Track 6 : Flakey_11, Barbochs_11, Gorko_11, Breezic_11
- Track 7 : Boneham_11, Butterball_11, BirksAndSocks_11
- Track 8 : Diabla_10
- Track 9 : Ekhein_11, Lizzo_11, CathyBurgh_11, Exiguo_11, Beaver_11, Squibbles_11, Sam12_11
- Track 10 : Monty_10, Hotorobo_11
- Track 11 : Eggsie_11
- Track 12 : John316_11, Jellybones_11
- Track 13 : Sombrero_11
- Track 14 : BenoitCattle_12, Dakiti_11, PierreThree_11, Linetti_12
- Track 15 : Msay19_12, Poland_14
- Track 16 : FelixAlejandro_12
- Track 17 : GourdThymes_11
- Track 18 : PokyPuppy_10
- Track 19 : Adgers_12
- Track 20 : RoyalG_12
- Track 21 : BigShaq_11
- Track 22 : RemRem_12
- Track 23 : Nimi13_8
- Track 24 : Lidong_8, GalacticEye_8, Berries_8, Minos_8, Charianelly_8
- Track 25 : Bianmat_8, Neoevie_8, Guillaume_8, Newt_8, Teal_8, Jormungandr_8, Harambe_8, Luker_8
- Track 26 : Hello_8
- Track 27 : Lahirium_8, Woes_8, Hail2Pitt_8
- Track 28 : Sticker17_8
- Track 29 : Damp_8
- Track 30 : Anamika_8
- Track 31 : MrWormie_8
- Track 32 : Shelley_8, Kaseim_8
- Track 33 : Jams_8
- Track 34 : Kvothe_11, Katyusha_11, Benczkowski14_11
- Track 35 : Niagara_11

- Track 36 : Teech_11
- Track 37 : Demosthenes_11
- Track 38 : Teatealatte_11, Tredge_11
- Track 39 : Philon9_12
- Track 40 : ASerpRocky_11
- Track 41 : Hollow_11
- Track 42 : Kampe_11, Orchid_11, PatrickStar_11, Gibbles_10
- Track 43 : RobinSparkles_15
- Track 44 : Camerico_11
- Track 45 : Gmala1_3
- Track 46 : GordTnk2_3
- Track 47 : GordDuk1_3
- Track 48 : GMA3_3
- Track 49 : Jumbo_8
- Track 50 : Trogglehumper_30
- Track 51 : DocB7_004
- Track 52 : Mbo2_8
- Track 53 : Reynauld_16

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

The start number called the most often in the published annotations is 26, it was called in 51 of the 70 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_12, Amore2_12, Anamika_8, Austin_12, Barbochs_11, Beaver_11, BenoitCattle_12, Berries_8, Bianmat_8, BigShaq_11, BirksAndSocks_11, Boneham_11, Breezic_11, Butterball_11, CathyBurgh_11, Charianelly_8, Chelms_11, Dakiti_11, Diabla_10, Eggsie_11, Ekhein_11, Exiguo_11, FelixAlejandro_12, Flakey_11, GMA7_3, GalacticEye_8, Gorko_11, GourdThymes_11, Guillaume_8, Hail2Pitt_8, Harambe_8, HayZem_12, Hotorobo_11, Jams_8, Jellybones_11, John316_11, Jormungandr_8, Kaseim_8, Lahirium_8, Lidong_8, Linetti_12, Lizzo_11, Luker_8, Minos_8, Monty_10, MrWormie_8, Msay19_12, Neoevie_8, Newt_8, Nimi13_8, PierreThree_11, PokyPuppy_10, Poland_14, RemRem_12, RoyalG_12, Sam12_11, Shelley_8, Sombrero_11, Squibbles_11, SteveFrench_10, Sticker17_8, Teal_8, Woes_8,

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

- Camerico_11, Damp_8, GTE7_3, Hello_8,

Genes that do not have the "Most Annotated" start:

- ASerpRocky_11, Benczkowski14_11, Demosthenes_11, DocB7_004, GMA3_3, Gibbles_10, Gmala1_3, GordDuk1_3, GordTnk2_3, Hollow_11, Jumbo_8, Kampe_11, Katyusha_11, Kvothe_11, Mbo2_8, Niagara_11, Orchid_11, PatrickStar_11, Philon9_12, Reynauld_16, RobinSparkles_15, Teatealatte_11, Teech_11, Tredge_11, Trogglehumper_30,

Summary by start number:

Start 2:

- Found in 1 of 92 (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: Philon9_12 (CS4),

Start 17:

- Found in 1 of 92 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper_30 (singleton),

Start 25:

- Found in 16 of 92 (17.4%) of genes in pham
- No Manual Annotations of this start.
- Called 6.2% of time when present
- Phage (with cluster) where this start called: GTE7_3 (CS1),

Start 26:

- Found in 67 of 92 (72.8%) of genes in pham
- Manual Annotations of this start: 51 of 70
- Called 94.0% of time when present
- Phage (with cluster) where this start called: Adgers_12 (CS2), Amore2_12 (CS1), Anamika_8 (CS3), Austin_12 (CS1), Barbochs_11 (CS2), Beaver_11 (CS2), BenoitCattle_12 (CS2), Berries_8 (CS3), Bianmat_8 (CS3), BigShaq_11 (CS2), BirksAndSocks_11 (CS2), Boneham_11 (CS2), Breezic_11 (CS2), Butterball_11 (CS2), CathyBurgh_11 (CS2), Charianelly_8 (CS3), Chelms_11 (CS2), Dakiti_11 (CS2), Diabla_10 (CS2), Eggsie_11 (CS2), Ekhein_11 (CS2), Exiguo_11 (CS2), FelixAlejandro_12 (CS2), Flakey_11 (CS2), GMA7_3 (CS1), GalacticEye_8 (CS3), Gorko_11 (CS2), GourdThymes_11 (CS2), Guillaume_8 (CS3), Hail2Pitt_8 (CS3), Harambe_8 (CS3), HayZem_12 (CS1), Hotorobo_11 (CS2), Jams_8 (CS3), Jellybones_11 (CS2), John316_11 (CS2), Jormungandr_8 (CS3), Kaseim_8 (CS3), Lahirium_8 (CS3), Lidong_8 (CS3), Linetti_12 (CS2), Lizzo_11 (CS2), Luker_8 (CS3), Minos_8 (CS3), Monty_10 (CS2), MrWormie_8 (CS3), Msay19_12 (CS2), Neoovie_8 (CS3), Newt_8 (CS3), Nimi13_8 (CS3), PierreThree_11 (CS2), PokyPuppy_10 (CS2), Poland_14 (CS2), RemRem_12 (CS2), RoyalG_12 (CS2), Sam12_11 (CS2), Shelley_8 (CS3), Sombrero_11 (CS2), Squibbles_11 (CS2), SteveFrench_10 (CS2), Sticker17_8 (CS3), Teal_8 (CS3), Woes_8 (CS3),

Start 27:

- Found in 24 of 92 (26.1%) of genes in pham
- Manual Annotations of this start: 17 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_11 (CS4), Benczkowski14_11 (CS4), Camerico_11 (DF), Demosthenes_11 (CS4), DocB7_004 (singleton), GMA3_3 (DF2), Gibbles_10 (CX), Gmala1_3 (DF1), GordDuk1_3 (DF1), GordTnk2_3 (DF1), Hollow_11 (CS4), Jumbo_8 (DF3), Kampe_11 (CX), Katyusha_11 (CS4), Kvothe_11 (CS4), Mbo2_8 (singleton), Niagara_11 (CS4), Orchid_11 (CX), PatrickStar_11 (CX), Reynauld_16 (singleton), RobinSparkles_15 (CX), Teatealatte_11 (CS4), Teech_11 (CS4), Tredge_11 (CS4),

Start 30:

- Found in 41 of 92 (44.6%) of genes in pham
- Manual Annotations of this start: 1 of 70

- Called 4.9% of time when present
- Phage (with cluster) where this start called: Damp_8 (CS3), Hello_8 (CS3),

Summary by clusters:

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

Info for manual annotations of cluster CS1:

- Start number 26 was manually annotated 2 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 26 was manually annotated 29 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 26 was manually annotated 20 times for cluster CS3.
- Start number 30 was manually annotated 1 time for cluster CS3.

Info for manual annotations of cluster CS4:

- Start number 27 was manually annotated 9 times for cluster CS4.

Info for manual annotations of cluster CX:

- Start number 27 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster DF:

- Start number 27 was manually annotated 1 time for cluster DF.

Info for manual annotations of cluster DF3:

- Start number 27 was manually annotated 1 time for cluster DF3.

Gene Information:

Gene: ASerpRocky_11 Start: 10816, Stop: 12555, Start Num: 27

Candidate Starts for ASerpRocky_11:

(25, 10810), (Start: 27 @10816 has 17 MA's), (Start: 30 @10849 has 1 MA's), (43, 10939), (49, 11005), (51, 11023), (53, 11059), (56, 11071), (57, 11074), (65, 11149), (68, 11164), (70, 11212), (73, 11251), (78, 11290), (85, 11353), (89, 11404), (93, 11434), (101, 11551), (108, 11623), (114, 11662), (115, 11665), (118, 11695), (120, 11725), (122, 11746), (128, 11794), (171, 11878), (173, 11890), (180, 11950), (190, 12070), (191, 12073), (201, 12136), (212, 12304), (229, 12442), (236, 12493), (246, 12538),

Gene: Adgers_12 Start: 9331, Stop: 11055, Start Num: 26

Candidate Starts for Adgers_12:

(Start: 26 @9331 has 51 MA's), (45, 9463), (46, 9484), (51, 9532), (56, 9580), (63, 9655), (69, 9682), (91, 9934), (93, 9940), (108, 10129), (114, 10168), (118, 10201), (122, 10252), (128, 10300), (135, 10333), (171, 10384), (173, 10396), (175, 10408), (177, 10420), (180, 10456), (192, 10588), (215, 10831), (220, 10870), (222, 10891), (223, 10900), (225, 10924), (227, 10939),

Gene: Amore2_12 Start: 9385, Stop: 11100, Start Num: 26

Candidate Starts for Amore2_12:

(25, 9382), (Start: 26 @9385 has 51 MA's), (Start: 30 @9418 has 1 MA's), (45, 9514), (48, 9559), (51, 9583), (56, 9631), (69, 9733), (73, 9811), (93, 9997), (108, 10186), (115, 10228), (118, 10258), (122, 10309), (128, 10357), (171, 10441), (173, 10453), (177, 10477), (180, 10513), (188, 10615), (216, 10885), (221, 10924), (226, 10978), (227, 10981),

Gene: Anamika_8 Start: 8400, Stop: 10952, Start Num: 26

Candidate Starts for Anamika_8:

(21, 8373), (Start: 26 @8400 has 51 MA's), (Start: 30 @8436 has 1 MA's), (43, 8517), (46, 8553), (51, 8601), (56, 8649), (69, 8751), (82, 8913), (90, 8991), (93, 9009), (101, 9126), (108, 9198), (118, 9270), (120, 9300), (121, 9309), (122, 9321), (128, 9369), (142, 9468), (143, 9474), (144, 9483), (145, 9510), (149, 9633), (150, 9690), (151, 9693), (152, 9705), (153, 9726), (158, 9900), (161, 9945), (162, 9978), (163, 9996), (165, 10035), (168, 10188), (173, 10290), (175, 10302), (177, 10314), (180, 10350), (188, 10452), (206, 10632), (215, 10728), (220, 10767), (222, 10788), (223, 10797), (225, 10821), (227, 10836), (228, 10845), (232, 10866),

Gene: Austin_12 Start: 9385, Stop: 11100, Start Num: 26

Candidate Starts for Austin_12:

(25, 9382), (Start: 26 @9385 has 51 MA's), (Start: 30 @9418 has 1 MA's), (45, 9514), (48, 9559), (51, 9583), (56, 9631), (69, 9733), (73, 9811), (93, 9997), (108, 10186), (115, 10228), (118, 10258), (122, 10309), (128, 10357), (171, 10441), (173, 10453), (177, 10477), (180, 10513), (188, 10615), (216, 10885), (221, 10924), (226, 10978), (227, 10981),

Gene: Barbochs_11 Start: 9166, Stop: 10893, Start Num: 26

Candidate Starts for Barbochs_11:

(Start: 26 @9166 has 51 MA's), (43, 9283), (45, 9298), (46, 9319), (51, 9367), (56, 9415), (58, 9427), (63, 9490), (67, 9505), (69, 9517), (70, 9556), (93, 9775), (108, 9964), (118, 10036), (122, 10087), (128, 10135), (171, 10219), (173, 10231), (175, 10243), (177, 10255), (180, 10291), (186, 10384), (192, 10423), (215, 10669), (220, 10708), (222, 10729), (223, 10738), (225, 10762), (227, 10777),

Gene: Beaver_11 Start: 9177, Stop: 10901, Start Num: 26

Candidate Starts for Beaver_11:

(Start: 26 @9177 has 51 MA's), (43, 9294), (45, 9309), (46, 9330), (51, 9378), (56, 9426), (63, 9501), (67, 9516), (69, 9528), (93, 9786), (108, 9975), (118, 10047), (122, 10098), (128, 10146), (171, 10230), (173, 10242), (175, 10254), (177, 10266), (180, 10302), (186, 10395), (192, 10434), (215, 10677), (220, 10716), (222, 10737), (223, 10746), (225, 10770), (227, 10785),

Gene: Benczkowski14_11 Start: 10878, Stop: 12617, Start Num: 27

Candidate Starts for Benczkowski14_11:

(25, 10872), (Start: 27 @10878 has 17 MA's), (Start: 30 @10911 has 1 MA's), (43, 11001), (49, 11067), (51, 11085), (53, 11121), (56, 11133), (57, 11136), (65, 11211), (68, 11226), (70, 11274), (73, 11313), (78, 11352), (85, 11415), (87, 11460), (89, 11466), (90, 11478), (93, 11496), (103, 11646), (108, 11685), (114, 11724), (115, 11727), (118, 11757), (122, 11808), (128, 11856), (171, 11940), (173, 11952), (179, 12003), (180, 12012), (190, 12132), (191, 12135), (201, 12198), (212, 12366), (229, 12504), (236, 12555), (246, 12600),

Gene: BenoitCattle_12 Start: 9161, Stop: 10888, Start Num: 26

Candidate Starts for BenoitCattle_12:

(Start: 26 @9161 has 51 MA's), (45, 9293), (46, 9314), (51, 9362), (56, 9410), (60, 9455), (63, 9485), (69, 9512), (70, 9551), (80, 9644), (93, 9770), (108, 9959), (118, 10031), (122, 10082), (128, 10130), (134, 10160), (171, 10214), (173, 10226), (175, 10238), (177, 10250), (180, 10286), (184, 10367), (186, 10379), (188, 10388), (215, 10664), (220, 10703), (222, 10724), (223, 10733), (225, 10757), (227, 10772),

Gene: Berries_8 Start: 8384, Stop: 10936, Start Num: 26

Candidate Starts for Berries_8:

(Start: 26 @8384 has 51 MA's), (Start: 30 @8420 has 1 MA's), (43, 8501), (46, 8537), (51, 8585), (56, 8633), (69, 8735), (82, 8897), (90, 8975), (93, 8993), (101, 9110), (108, 9182), (118, 9254), (120, 9284), (121, 9293), (122, 9305), (128, 9353), (134, 9383), (142, 9452), (143, 9458), (144, 9467), (145, 9494), (149, 9617), (150, 9674), (151, 9677), (152, 9689), (153, 9710), (158, 9884), (161, 9929), (162, 9962), (163, 9980), (165, 10019), (168, 10172), (173, 10274), (175, 10286), (177, 10298), (180, 10334), (188, 10436), (206, 10616), (215, 10712), (220, 10751), (222, 10772), (223, 10781), (225, 10805), (227, 10820), (228, 10829), (232, 10850),

Gene: Bianmat_8 Start: 8407, Stop: 10959, Start Num: 26

Candidate Starts for Bianmat_8:

(Start: 26 @8407 has 51 MA's), (Start: 30 @8443 has 1 MA's), (43, 8524), (46, 8560), (51, 8608), (56, 8656), (63, 8731), (67, 8746), (69, 8758), (80, 8890), (82, 8920), (90, 8998), (93, 9016), (101, 9133), (108, 9205), (118, 9277), (120, 9307), (121, 9316), (122, 9328), (128, 9376), (142, 9475), (143, 9481), (144, 9490), (145, 9517), (149, 9640), (150, 9697), (151, 9700), (152, 9712), (153, 9733), (158, 9907), (161, 9952), (162, 9985), (163, 10003), (165, 10042), (168, 10195), (173, 10297), (175, 10309), (177, 10321), (180, 10357), (188, 10459), (206, 10639), (215, 10735), (220, 10774), (222, 10795), (223, 10804), (225, 10828), (227, 10843), (228, 10852), (232, 10873),

Gene: BigShaq_11 Start: 9163, Stop: 10890, Start Num: 26

Candidate Starts for BigShaq_11:

(Start: 26 @9163 has 51 MA's), (43, 9280), (45, 9295), (46, 9316), (51, 9364), (56, 9412), (60, 9457), (63, 9487), (69, 9514), (70, 9553), (80, 9646), (93, 9772), (108, 9961), (118, 10033), (122, 10084), (128, 10132), (134, 10162), (171, 10216), (173, 10228), (175, 10240), (177, 10252), (180, 10288), (184, 10369), (186, 10381), (188, 10390), (215, 10666), (220, 10705), (222, 10726), (223, 10735), (225, 10759), (227, 10774),

Gene: BirksAndSocks_11 Start: 9166, Stop: 10890, Start Num: 26

Candidate Starts for BirksAndSocks_11:

(Start: 26 @9166 has 51 MA's), (45, 9298), (46, 9319), (51, 9367), (56, 9415), (63, 9490), (69, 9517), (70, 9556), (91, 9769), (93, 9775), (108, 9964), (114, 10003), (118, 10036), (122, 10087), (128, 10135), (135, 10168), (171, 10219), (173, 10231), (175, 10243), (177, 10255), (180, 10291), (192, 10423), (215, 10666), (220, 10705), (222, 10726), (223, 10735), (225, 10759), (227, 10774),

Gene: Boneham_11 Start: 9165, Stop: 10889, Start Num: 26

Candidate Starts for Boneham_11:

(Start: 26 @9165 has 51 MA's), (45, 9297), (46, 9318), (51, 9366), (56, 9414), (63, 9489), (69, 9516), (70, 9555), (91, 9768), (93, 9774), (108, 9963), (114, 10002), (118, 10035), (122, 10086), (128, 10134), (135, 10167), (171, 10218), (173, 10230), (175, 10242), (177, 10254), (180, 10290), (192, 10422), (215, 10665), (220, 10704), (222, 10725), (223, 10734), (225, 10758), (227, 10773),

Gene: Breezic_11 Start: 9177, Stop: 10904, Start Num: 26

Candidate Starts for Breezic_11:

(Start: 26 @9177 has 51 MA's), (43, 9294), (45, 9309), (46, 9330), (51, 9378), (56, 9426), (58, 9438), (63, 9501), (67, 9516), (69, 9528), (70, 9567), (93, 9786), (108, 9975), (118, 10047), (122, 10098), (128, 10146), (171, 10230), (173, 10242), (175, 10254), (177, 10266), (180, 10302), (186, 10395), (192, 10434), (215, 10680), (220, 10719), (222, 10740), (223, 10749), (225, 10773), (227, 10788),

Gene: Butterball_11 Start: 9165, Stop: 10889, Start Num: 26

Candidate Starts for Butterball_11:

(Start: 26 @9165 has 51 MA's), (45, 9297), (46, 9318), (51, 9366), (56, 9414), (63, 9489), (69, 9516), (70, 9555), (91, 9768), (93, 9774), (108, 9963), (114, 10002), (118, 10035), (122, 10086), (128, 10134), (135, 10167), (171, 10218), (173, 10230), (175, 10242), (177, 10254), (180, 10290), (192, 10422), (215, 10665), (220, 10704), (222, 10725), (223, 10734), (225, 10758), (227, 10773),

Gene: Camerico_11 Start: 10289, Stop: 12118, Start Num: 27

Candidate Starts for Camerico_11:

(Start: 26 @10286 has 51 MA's), (Start: 27 @10289 has 17 MA's), (29, 10301), (51, 10493), (53, 10529), (54, 10532), (55, 10535), (56, 10541), (69, 10646), (72, 10721), (80, 10778), (81, 10823), (90, 10961), (93, 10979), (95, 11009), (99, 11057), (106, 11150), (108, 11168), (114, 11207), (117, 11231), (119, 11255), (121, 11279), (125, 11318), (135, 11372), (170, 11417), (171, 11423), (176, 11450), (177, 11459), (180, 11495), (185, 11585), (186, 11588), (188, 11597), (189, 11600), (194, 11636), (209, 11849), (227, 12002), (236, 12053),

Gene: CathyBurgh_11 Start: 9165, Stop: 10892, Start Num: 26

Candidate Starts for CathyBurgh_11:

(Start: 26 @9165 has 51 MA's), (43, 9282), (45, 9297), (46, 9318), (51, 9366), (56, 9414), (63, 9489), (67, 9504), (69, 9516), (93, 9774), (108, 9963), (118, 10035), (122, 10086), (128, 10134), (171, 10218), (173, 10230), (175, 10242), (177, 10254), (180, 10290), (186, 10383), (192, 10422), (215, 10668), (220, 10707), (222, 10728), (223, 10737), (225, 10761), (227, 10776),

Gene: Charianelly_8 Start: 8395, Stop: 10947, Start Num: 26

Candidate Starts for Charianelly_8:

(Start: 26 @8395 has 51 MA's), (Start: 30 @8431 has 1 MA's), (43, 8512), (46, 8548), (51, 8596), (56, 8644), (69, 8746), (82, 8908), (90, 8986), (93, 9004), (101, 9121), (108, 9193), (118, 9265), (120, 9295), (121, 9304), (122, 9316), (128, 9364), (134, 9394), (142, 9463), (143, 9469), (144, 9478), (145, 9505), (149, 9628), (150, 9685), (151, 9688), (152, 9700), (153, 9721), (158, 9895), (161, 9940), (162, 9973), (163, 9991), (165, 10030), (168, 10183), (173, 10285), (175, 10297), (177, 10309), (180, 10345), (188, 10447), (206, 10627), (215, 10723), (220, 10762), (222, 10783), (223, 10792), (225, 10816), (227, 10831), (228, 10840), (232, 10861),

Gene: Chelms_11 Start: 9163, Stop: 10890, Start Num: 26

Candidate Starts for Chelms_11:

(Start: 26 @9163 has 51 MA's), (43, 9280), (45, 9295), (46, 9316), (51, 9364), (56, 9412), (60, 9457), (63, 9487), (69, 9514), (70, 9553), (80, 9646), (93, 9772), (108, 9961), (118, 10033), (122, 10084), (128, 10132), (134, 10162), (171, 10216), (173, 10228), (175, 10240), (177, 10252), (180, 10288), (184, 10369), (188, 10390), (215, 10666), (220, 10705), (222, 10726), (223, 10735), (225, 10759), (227, 10774),

Gene: Dakiti_11 Start: 9163, Stop: 10890, Start Num: 26

Candidate Starts for Dakiti_11:

(Start: 26 @9163 has 51 MA's), (45, 9295), (46, 9316), (51, 9364), (56, 9412), (60, 9457), (63, 9487), (69, 9514), (70, 9553), (80, 9646), (93, 9772), (108, 9961), (118, 10033), (122, 10084), (128, 10132), (134, 10162), (171, 10216), (173, 10228), (175, 10240), (177, 10252), (180, 10288), (184, 10369), (186, 10381), (188, 10390), (215, 10666), (220, 10705), (222, 10726), (223, 10735), (225, 10759), (227, 10774),

Gene: Damp_8 Start: 8420, Stop: 10111, Start Num: 30

Candidate Starts for Damp_8:

(Start: 26 @8384 has 51 MA's), (Start: 30 @8420 has 1 MA's), (43, 8501), (46, 8537), (51, 8585), (56, 8633), (63, 8708), (67, 8723), (69, 8735), (80, 8867), (82, 8897), (90, 8975), (93, 8993), (101, 9110), (108, 9182), (118, 9254), (120, 9284), (121, 9293), (122, 9305), (128, 9353), (173, 9449), (175, 9461), (177, 9473), (180, 9509), (188, 9611), (206, 9791), (215, 9887), (220, 9926), (222, 9947), (223, 9956),

(225, 9980), (227, 9995), (228, 10004), (232, 10025),

Gene: Demosthenes_11 Start: 10786, Stop: 12525, Start Num: 27

Candidate Starts for Demosthenes_11:

(25, 10780), (Start: 27 @10786 has 17 MA's), (Start: 30 @10819 has 1 MA's), (43, 10909), (49, 10975), (51, 10993), (53, 11029), (56, 11041), (57, 11044), (63, 11116), (65, 11119), (68, 11134), (70, 11182), (73, 11221), (78, 11260), (87, 11368), (93, 11404), (101, 11521), (103, 11554), (104, 11560), (106, 11575), (108, 11593), (114, 11632), (115, 11635), (118, 11665), (122, 11716), (128, 11764), (171, 11848), (173, 11860), (180, 11920), (190, 12040), (191, 12043), (201, 12106), (212, 12274), (229, 12412), (236, 12463),

Gene: Diabla_10 Start: 8971, Stop: 10701, Start Num: 26

Candidate Starts for Diabla_10:

(Start: 26 @8971 has 51 MA's), (28, 8983), (32, 9019), (45, 9103), (46, 9124), (51, 9172), (56, 9220), (59, 9244), (63, 9295), (65, 9298), (69, 9322), (80, 9454), (93, 9580), (101, 9697), (108, 9769), (118, 9841), (122, 9892), (128, 9940), (171, 10024), (173, 10036), (175, 10048), (177, 10060), (180, 10096), (186, 10189), (192, 10228), (206, 10381), (215, 10477), (220, 10516), (222, 10537), (223, 10546), (225, 10570), (227, 10585),

Gene: DocB7_004 Start: 3689, Stop: 5428, Start Num: 27

Candidate Starts for DocB7_004:

(20, 3650), (Start: 27 @3689 has 17 MA's), (40, 3785), (51, 3890), (54, 3929), (56, 3938), (57, 3941), (62, 4007), (63, 4013), (69, 4040), (73, 4118), (86, 4250), (89, 4277), (93, 4307), (105, 4487), (108, 4508), (111, 4520), (122, 4631), (123, 4655), (128, 4679), (135, 4712), (171, 4763), (173, 4775), (174, 4778), (180, 4835), (188, 4937), (197, 4994), (208, 5141), (210, 5165), (217, 5228), (237, 5375), (243, 5402),

Gene: Eggsie_11 Start: 9171, Stop: 10901, Start Num: 26

Candidate Starts for Eggsie_11:

(Start: 26 @9171 has 51 MA's), (45, 9303), (46, 9324), (51, 9372), (56, 9420), (59, 9444), (63, 9495), (65, 9498), (69, 9522), (77, 9621), (80, 9654), (93, 9780), (108, 9969), (118, 10041), (122, 10092), (128, 10140), (171, 10224), (173, 10236), (175, 10248), (177, 10260), (180, 10296), (184, 10377), (186, 10389), (192, 10428), (206, 10581), (215, 10677), (220, 10716), (222, 10737), (223, 10746), (225, 10770), (227, 10785),

Gene: Ekhein_11 Start: 9165, Stop: 10889, Start Num: 26

Candidate Starts for Ekhein_11:

(Start: 26 @9165 has 51 MA's), (43, 9282), (45, 9297), (46, 9318), (51, 9366), (56, 9414), (63, 9489), (67, 9504), (69, 9516), (93, 9774), (108, 9963), (118, 10035), (122, 10086), (128, 10134), (171, 10218), (173, 10230), (175, 10242), (177, 10254), (180, 10290), (186, 10383), (192, 10422), (215, 10665), (220, 10704), (222, 10725), (223, 10734), (225, 10758), (227, 10773),

Gene: Exiguo_11 Start: 9177, Stop: 10901, Start Num: 26

Candidate Starts for Exiguo_11:

(Start: 26 @9177 has 51 MA's), (43, 9294), (45, 9309), (46, 9330), (51, 9378), (56, 9426), (63, 9501), (67, 9516), (69, 9528), (93, 9786), (108, 9975), (118, 10047), (122, 10098), (128, 10146), (171, 10230), (173, 10242), (175, 10254), (177, 10266), (180, 10302), (186, 10395), (192, 10434), (215, 10677), (220, 10716), (222, 10737), (223, 10746), (225, 10770), (227, 10785),

Gene: FelixAlejandro_12 Start: 9363, Stop: 11087, Start Num: 26

Candidate Starts for FelixAlejandro_12:

(Start: 26 @9363 has 51 MA's), (43, 9480), (45, 9495), (46, 9516), (51, 9564), (56, 9612), (63, 9687), (69, 9714), (70, 9753), (91, 9966), (93, 9972), (108, 10161), (114, 10200), (118, 10233), (122, 10284),

(128, 10332), (171, 10416), (173, 10428), (175, 10440), (177, 10452), (180, 10488), (192, 10620), (215, 10863), (220, 10902), (222, 10923), (223, 10932), (227, 10971),

Gene: Flakey_11 Start: 9166, Stop: 10893, Start Num: 26

Candidate Starts for Flakey_11:

(Start: 26 @9166 has 51 MA's), (43, 9283), (45, 9298), (46, 9319), (51, 9367), (56, 9415), (58, 9427), (63, 9490), (67, 9505), (69, 9517), (70, 9556), (93, 9775), (108, 9964), (118, 10036), (122, 10087), (128, 10135), (171, 10219), (173, 10231), (175, 10243), (177, 10255), (180, 10291), (186, 10384), (192, 10423), (215, 10669), (220, 10708), (222, 10729), (223, 10738), (225, 10762), (227, 10777),

Gene: GMA3_3 Start: 4995, Stop: 6896, Start Num: 27

Candidate Starts for GMA3_3:

(Start: 27 @4995 has 17 MA's), (36, 5061), (49, 5190), (50, 5205), (51, 5208), (56, 5256), (58, 5268), (65, 5334), (69, 5358), (73, 5430), (76, 5448), (81, 5526), (93, 5676), (96, 5742), (99, 5754), (107, 5862), (108, 5865), (117, 5928), (119, 5952), (122, 5988), (130, 6042), (170, 6114), (177, 6156), (180, 6192), (181, 6201), (182, 6234), (187, 6288), (197, 6351), (202, 6462), (203, 6465), (219, 6678), (224, 6735), (239, 6822), (240, 6825),

Gene: GMA7_3 Start: 3574, Stop: 5289, Start Num: 26

Candidate Starts for GMA7_3:

(25, 3571), (Start: 26 @3574 has 51 MA's), (Start: 30 @3607 has 1 MA's), (45, 3703), (48, 3748), (51, 3772), (56, 3820), (69, 3922), (73, 4000), (89, 4156), (93, 4186), (108, 4375), (115, 4417), (118, 4447), (122, 4498), (128, 4546), (171, 4630), (173, 4642), (177, 4666), (180, 4702), (188, 4804), (216, 5074), (221, 5113), (226, 5167), (227, 5170),

Gene: GTE7_3 Start: 3556, Stop: 5274, Start Num: 25

Candidate Starts for GTE7_3:

(25, 3556), (Start: 26 @3559 has 51 MA's), (Start: 30 @3592 has 1 MA's), (45, 3688), (48, 3733), (51, 3757), (56, 3805), (69, 3907), (73, 3985), (93, 4171), (108, 4360), (115, 4402), (118, 4432), (122, 4483), (128, 4531), (171, 4615), (173, 4627), (177, 4651), (180, 4687), (188, 4789), (216, 5059), (221, 5098), (226, 5152), (227, 5155),

Gene: GalacticEye_8 Start: 8384, Stop: 10936, Start Num: 26

Candidate Starts for GalacticEye_8:

(Start: 26 @8384 has 51 MA's), (Start: 30 @8420 has 1 MA's), (43, 8501), (46, 8537), (51, 8585), (56, 8633), (69, 8735), (82, 8897), (90, 8975), (93, 8993), (101, 9110), (108, 9182), (118, 9254), (120, 9284), (121, 9293), (122, 9305), (128, 9353), (134, 9383), (142, 9452), (143, 9458), (144, 9467), (145, 9494), (149, 9617), (150, 9674), (151, 9677), (152, 9689), (153, 9710), (158, 9884), (161, 9929), (162, 9962), (163, 9980), (165, 10019), (168, 10172), (173, 10274), (175, 10286), (177, 10298), (180, 10334), (188, 10436), (206, 10616), (215, 10712), (220, 10751), (222, 10772), (223, 10781), (225, 10805), (227, 10820), (228, 10829), (232, 10850),

Gene: Gibbles_10 Start: 8889, Stop: 10658, Start Num: 27

Candidate Starts for Gibbles_10:

(23, 8877), (Start: 27 @8889 has 17 MA's), (44, 9009), (50, 9084), (51, 9087), (53, 9123), (56, 9135), (60, 9180), (69, 9237), (70, 9276), (71, 9309), (72, 9312), (76, 9333), (92, 9528), (94, 9546), (95, 9561), (98, 9603), (99, 9609), (108, 9720), (113, 9741), (116, 9765), (118, 9792), (122, 9843), (125, 9870), (134, 9921), (171, 9975), (175, 9999), (176, 10002), (177, 10011), (180, 10047), (194, 10188), (241, 10626), (244, 10635),

Gene: Gmala1_3 Start: 5276, Stop: 7147, Start Num: 27

Candidate Starts for Gmala1_3:

(Start: 27 @5276 has 17 MA's), (37, 5348), (49, 5462), (51, 5480), (56, 5528), (58, 5540), (61, 5585), (62, 5597), (69, 5630), (76, 5726), (81, 5819), (83, 5849), (84, 5870), (91, 5963), (93, 5969), (99, 6047), (108, 6158), (115, 6200), (117, 6221), (119, 6245), (122, 6281), (125, 6308), (127, 6317), (133, 6356), (138, 6398), (170, 6407), (171, 6413), (176, 6440), (178, 6452), (180, 6485), (182, 6527), (186, 6578), (189, 6590), (196, 6638), (199, 6668), (209, 6851), (219, 6935), (227, 7013), (238, 7079),

Gene: GordDuk1_3 Start: 5216, Stop: 7087, Start Num: 27

Candidate Starts for GordDuk1_3:

(Start: 27 @5216 has 17 MA's), (37, 5288), (49, 5402), (51, 5420), (56, 5468), (58, 5480), (61, 5525), (62, 5537), (76, 5666), (81, 5759), (83, 5789), (84, 5810), (91, 5903), (93, 5909), (99, 5987), (108, 6098), (115, 6140), (117, 6161), (119, 6185), (122, 6221), (125, 6248), (127, 6257), (133, 6296), (138, 6338), (170, 6347), (171, 6353), (176, 6380), (178, 6392), (180, 6425), (182, 6467), (186, 6518), (189, 6530), (196, 6578), (209, 6791), (219, 6875), (227, 6953), (238, 7019),

Gene: GordTnk2_3 Start: 5183, Stop: 7054, Start Num: 27

Candidate Starts for GordTnk2_3:

(Start: 27 @5183 has 17 MA's), (37, 5255), (49, 5369), (51, 5387), (56, 5435), (58, 5447), (61, 5492), (62, 5504), (76, 5633), (81, 5726), (83, 5756), (84, 5777), (91, 5870), (93, 5876), (99, 5954), (108, 6065), (115, 6107), (117, 6128), (119, 6152), (122, 6188), (125, 6215), (127, 6224), (133, 6263), (138, 6305), (170, 6314), (171, 6320), (176, 6347), (178, 6359), (180, 6392), (182, 6434), (186, 6485), (189, 6497), (196, 6545), (199, 6575), (209, 6758), (219, 6842), (227, 6920), (238, 6986),

Gene: Gorko_11 Start: 9166, Stop: 10893, Start Num: 26

Candidate Starts for Gorko_11:

(Start: 26 @9166 has 51 MA's), (43, 9283), (45, 9298), (46, 9319), (51, 9367), (56, 9415), (58, 9427), (63, 9490), (67, 9505), (69, 9517), (70, 9556), (93, 9775), (108, 9964), (118, 10036), (122, 10087), (128, 10135), (171, 10219), (173, 10231), (175, 10243), (177, 10255), (180, 10291), (186, 10384), (192, 10423), (215, 10669), (220, 10708), (222, 10729), (223, 10738), (225, 10762), (227, 10777),

Gene: GourdThymes_11 Start: 9165, Stop: 10892, Start Num: 26

Candidate Starts for GourdThymes_11:

(Start: 26 @9165 has 51 MA's), (43, 9282), (45, 9297), (46, 9318), (51, 9366), (56, 9414), (63, 9489), (69, 9516), (70, 9555), (93, 9774), (108, 9963), (114, 10002), (118, 10035), (122, 10086), (128, 10134), (171, 10218), (173, 10230), (175, 10242), (177, 10254), (180, 10290), (186, 10383), (192, 10422), (215, 10668), (220, 10707), (222, 10728), (223, 10737), (225, 10761), (227, 10776),

Gene: Guillaume_8 Start: 8395, Stop: 10947, Start Num: 26

Candidate Starts for Guillaume_8:

(Start: 26 @8395 has 51 MA's), (Start: 30 @8431 has 1 MA's), (43, 8512), (46, 8548), (51, 8596), (56, 8644), (63, 8719), (67, 8734), (69, 8746), (80, 8878), (82, 8908), (90, 8986), (93, 9004), (101, 9121), (108, 9193), (118, 9265), (120, 9295), (121, 9304), (122, 9316), (128, 9364), (142, 9463), (143, 9469), (144, 9478), (145, 9505), (149, 9628), (150, 9685), (151, 9688), (152, 9700), (153, 9721), (158, 9895), (161, 9940), (162, 9973), (163, 9991), (165, 10030), (168, 10183), (173, 10285), (175, 10297), (177, 10309), (180, 10345), (188, 10447), (206, 10627), (215, 10723), (220, 10762), (222, 10783), (223, 10792), (225, 10816), (227, 10831), (228, 10840), (232, 10861),

Gene: Hail2Pitt_8 Start: 8378, Stop: 11167, Start Num: 26

Candidate Starts for Hail2Pitt_8:

(21, 8351), (Start: 26 @8378 has 51 MA's), (Start: 30 @8414 has 1 MA's), (43, 8495), (46, 8531), (51, 8579), (56, 8627), (69, 8729), (82, 8891), (90, 8969), (93, 8987), (101, 9104), (108, 9176), (118, 9248), (121, 9287), (129, 9368), (131, 9371), (136, 9422), (137, 9428), (140, 9452), (141, 9461), (145, 9533), (146, 9668), (147, 9674), (148, 9677), (150, 9758), (154, 9914), (155, 9935), (156, 9953), (157, 10019), (159, 10043), (160, 10061), (164, 10175), (165, 10184), (166, 10337), (167, 10361), (169,

10409), (171, 10493), (173, 10505), (175, 10517), (177, 10529), (180, 10565), (188, 10667), (206, 10847), (215, 10943), (220, 10982), (222, 11003), (223, 11012), (225, 11036), (227, 11051), (228, 11060), (232, 11081),

Gene: Harambe_8 Start: 8399, Stop: 10951, Start Num: 26

Candidate Starts for Harambe_8:

(Start: 26 @8399 has 51 MA's), (Start: 30 @8435 has 1 MA's), (43, 8516), (46, 8552), (51, 8600), (56, 8648), (63, 8723), (67, 8738), (69, 8750), (80, 8882), (82, 8912), (90, 8990), (93, 9008), (101, 9125), (108, 9197), (118, 9269), (120, 9299), (121, 9308), (122, 9320), (128, 9368), (142, 9467), (143, 9473), (144, 9482), (145, 9509), (149, 9632), (150, 9689), (151, 9692), (152, 9704), (153, 9725), (158, 9899), (161, 9944), (162, 9977), (163, 9995), (165, 10034), (168, 10187), (173, 10289), (175, 10301), (177, 10313), (180, 10349), (188, 10451), (206, 10631), (215, 10727), (220, 10766), (222, 10787), (223, 10796), (225, 10820), (227, 10835), (228, 10844), (232, 10865),

Gene: HayZem_12 Start: 9385, Stop: 11100, Start Num: 26

Candidate Starts for HayZem_12:

(25, 9382), (Start: 26 @9385 has 51 MA's), (Start: 30 @9418 has 1 MA's), (45, 9514), (48, 9559), (51, 9583), (56, 9631), (69, 9733), (73, 9811), (93, 9997), (108, 10186), (115, 10228), (118, 10258), (122, 10309), (128, 10357), (171, 10441), (173, 10453), (177, 10477), (180, 10513), (188, 10615), (216, 10885), (221, 10924), (226, 10978), (227, 10981),

Gene: Hello_8 Start: 8421, Stop: 10937, Start Num: 30

Candidate Starts for Hello_8:

(Start: 26 @8385 has 51 MA's), (Start: 30 @8421 has 1 MA's), (43, 8502), (46, 8538), (51, 8586), (56, 8634), (63, 8709), (67, 8724), (69, 8736), (80, 8868), (82, 8898), (90, 8976), (93, 8994), (101, 9111), (108, 9183), (118, 9255), (120, 9285), (121, 9294), (122, 9306), (128, 9354), (142, 9453), (143, 9459), (144, 9468), (145, 9495), (149, 9618), (150, 9675), (151, 9678), (152, 9690), (153, 9711), (158, 9885), (161, 9930), (162, 9963), (163, 9981), (165, 10020), (168, 10173), (173, 10275), (175, 10287), (177, 10299), (180, 10335), (188, 10437), (206, 10617), (215, 10713), (220, 10752), (222, 10773), (223, 10782), (225, 10806), (227, 10821), (228, 10830), (232, 10851),

Gene: Hollow_11 Start: 10813, Stop: 12552, Start Num: 27

Candidate Starts for Hollow_11:

(25, 10807), (Start: 27 @10813 has 17 MA's), (Start: 30 @10846 has 1 MA's), (43, 10936), (49, 11002), (51, 11020), (53, 11056), (54, 11059), (56, 11068), (57, 11071), (65, 11146), (68, 11161), (70, 11209), (73, 11248), (78, 11287), (89, 11401), (90, 11413), (93, 11431), (101, 11548), (108, 11620), (114, 11659), (115, 11662), (118, 11692), (122, 11743), (128, 11791), (171, 11875), (173, 11887), (180, 11947), (190, 12067), (191, 12070), (198, 12112), (201, 12133), (212, 12301), (229, 12439), (236, 12490), (246, 12535),

Gene: Hotorobo_11 Start: 9176, Stop: 10903, Start Num: 26

Candidate Starts for Hotorobo_11:

(Start: 26 @9176 has 51 MA's), (43, 9293), (45, 9308), (46, 9329), (51, 9377), (56, 9425), (63, 9500), (69, 9527), (93, 9785), (108, 9974), (118, 10046), (122, 10097), (128, 10145), (171, 10229), (173, 10241), (175, 10253), (177, 10265), (180, 10301), (186, 10394), (192, 10433), (215, 10679), (220, 10718), (222, 10739), (223, 10748), (225, 10772), (227, 10787),

Gene: Jams_8 Start: 8404, Stop: 10131, Start Num: 26

Candidate Starts for Jams_8:

(Start: 26 @8404 has 51 MA's), (Start: 30 @8440 has 1 MA's), (43, 8521), (46, 8557), (51, 8605), (56, 8653), (63, 8728), (69, 8755), (80, 8887), (82, 8917), (90, 8995), (93, 9013), (101, 9130), (108, 9202), (118, 9274), (120, 9304), (121, 9313), (122, 9325), (128, 9373), (173, 9469), (175, 9481), (177, 9493), (180, 9529), (188, 9631), (206, 9811), (215, 9907), (220, 9946), (222, 9967), (223, 9976), (225,

10000), (227, 10015), (228, 10024), (232, 10045),

Gene: Jellybones_11 Start: 9200, Stop: 10924, Start Num: 26

Candidate Starts for Jellybones_11:

(Start: 26 @9200 has 51 MA's), (43, 9317), (45, 9332), (46, 9353), (51, 9401), (56, 9449), (63, 9524), (69, 9551), (70, 9590), (91, 9803), (93, 9809), (108, 9998), (114, 10037), (118, 10070), (122, 10121), (128, 10169), (135, 10202), (171, 10253), (173, 10265), (175, 10277), (177, 10289), (180, 10325), (192, 10457), (215, 10700), (220, 10739), (222, 10760), (223, 10769), (225, 10793), (227, 10808),

Gene: John316_11 Start: 9165, Stop: 10889, Start Num: 26

Candidate Starts for John316_11:

(Start: 26 @9165 has 51 MA's), (43, 9282), (45, 9297), (46, 9318), (51, 9366), (56, 9414), (63, 9489), (69, 9516), (70, 9555), (91, 9768), (93, 9774), (108, 9963), (114, 10002), (118, 10035), (122, 10086), (128, 10134), (135, 10167), (171, 10218), (173, 10230), (175, 10242), (177, 10254), (180, 10290), (192, 10422), (215, 10665), (220, 10704), (222, 10725), (223, 10734), (225, 10758), (227, 10773),

Gene: Jormungandr_8 Start: 8398, Stop: 10950, Start Num: 26

Candidate Starts for Jormungandr_8:

(Start: 26 @8398 has 51 MA's), (Start: 30 @8434 has 1 MA's), (43, 8515), (46, 8551), (51, 8599), (56, 8647), (63, 8722), (67, 8737), (69, 8749), (80, 8881), (82, 8911), (90, 8989), (93, 9007), (101, 9124), (108, 9196), (118, 9268), (120, 9298), (121, 9307), (122, 9319), (128, 9367), (142, 9466), (143, 9472), (144, 9481), (145, 9508), (149, 9631), (150, 9688), (151, 9691), (152, 9703), (153, 9724), (158, 9898), (161, 9943), (162, 9976), (163, 9994), (165, 10033), (168, 10186), (173, 10288), (175, 10300), (177, 10312), (180, 10348), (188, 10450), (206, 10630), (215, 10726), (220, 10765), (222, 10786), (223, 10795), (225, 10819), (227, 10834), (228, 10843), (232, 10864),

Gene: Jumbo_8 Start: 10158, Stop: 12023, Start Num: 27

Candidate Starts for Jumbo_8:

(Start: 27 @10158 has 17 MA's), (48, 10344), (51, 10368), (56, 10416), (58, 10428), (59, 10440), (68, 10509), (69, 10518), (80, 10650), (89, 10818), (91, 10842), (93, 10848), (99, 10926), (108, 11037), (110, 11046), (117, 11100), (119, 11124), (120, 11139), (122, 11160), (125, 11187), (133, 11235), (138, 11277), (170, 11286), (176, 11319), (177, 11328), (178, 11331), (180, 11364), (182, 11409), (184, 11448), (185, 11457), (193, 11502), (194, 11508), (197, 11526), (203, 11613), (209, 11736), (210, 11748), (211, 11763), (218, 11814), (233, 11940), (235, 11943),

Gene: Kampe_11 Start: 8747, Stop: 10516, Start Num: 27

Candidate Starts for Kampe_11:

(23, 8735), (Start: 27 @8747 has 17 MA's), (44, 8867), (50, 8942), (51, 8945), (53, 8981), (56, 8993), (60, 9038), (69, 9095), (70, 9134), (71, 9167), (72, 9170), (76, 9191), (92, 9386), (94, 9404), (95, 9419), (98, 9461), (99, 9467), (108, 9578), (113, 9599), (116, 9623), (118, 9650), (122, 9701), (125, 9728), (134, 9779), (171, 9833), (175, 9857), (176, 9860), (177, 9869), (180, 9905), (194, 10046), (241, 10484), (244, 10493),

Gene: Kaseim_8 Start: 8395, Stop: 10122, Start Num: 26

Candidate Starts for Kaseim_8:

(21, 8368), (Start: 26 @8395 has 51 MA's), (Start: 30 @8431 has 1 MA's), (43, 8512), (46, 8548), (51, 8596), (56, 8644), (69, 8746), (82, 8908), (90, 8986), (93, 9004), (101, 9121), (108, 9193), (118, 9265), (120, 9295), (121, 9304), (167, 9316), (169, 9364), (173, 9460), (175, 9472), (177, 9484), (179, 9511), (180, 9520), (188, 9622), (206, 9802), (215, 9898), (220, 9937), (222, 9958), (223, 9967), (225, 9991), (227, 10006), (228, 10015), (232, 10036),

Gene: Katyusha_11 Start: 10878, Stop: 12617, Start Num: 27

Candidate Starts for Katyusha_11:

(25, 10872), (Start: 27 @10878 has 17 MA's), (Start: 30 @10911 has 1 MA's), (43, 11001), (49, 11067), (51, 11085), (53, 11121), (56, 11133), (57, 11136), (65, 11211), (68, 11226), (70, 11274), (73, 11313), (78, 11352), (85, 11415), (87, 11460), (89, 11466), (90, 11478), (93, 11496), (103, 11646), (108, 11685), (114, 11724), (115, 11727), (118, 11757), (122, 11808), (128, 11856), (171, 11940), (173, 11952), (179, 12003), (180, 12012), (190, 12132), (191, 12135), (201, 12198), (212, 12366), (229, 12504), (236, 12555), (246, 12600),

Gene: Kvothe_11 Start: 10815, Stop: 12554, Start Num: 27

Candidate Starts for Kvothe_11:

(25, 10809), (Start: 27 @10815 has 17 MA's), (Start: 30 @10848 has 1 MA's), (43, 10938), (49, 11004), (51, 11022), (53, 11058), (56, 11070), (57, 11073), (65, 11148), (68, 11163), (70, 11211), (73, 11250), (78, 11289), (85, 11352), (87, 11397), (89, 11403), (90, 11415), (93, 11433), (103, 11583), (108, 11622), (114, 11661), (115, 11664), (118, 11694), (122, 11745), (128, 11793), (171, 11877), (173, 11889), (179, 11940), (180, 11949), (190, 12069), (191, 12072), (201, 12135), (212, 12303), (229, 12441), (236, 12492), (246, 12537),

Gene: Lahirium_8 Start: 8399, Stop: 11188, Start Num: 26

Candidate Starts for Lahirium_8:

(21, 8372), (Start: 26 @8399 has 51 MA's), (Start: 30 @8435 has 1 MA's), (43, 8516), (46, 8552), (51, 8600), (56, 8648), (69, 8750), (82, 8912), (90, 8990), (93, 9008), (101, 9125), (108, 9197), (118, 9269), (121, 9308), (129, 9389), (131, 9392), (136, 9443), (137, 9449), (140, 9473), (141, 9482), (145, 9554), (146, 9689), (147, 9695), (148, 9698), (150, 9779), (154, 9935), (155, 9956), (156, 9974), (157, 10040), (159, 10064), (160, 10082), (164, 10196), (165, 10205), (166, 10358), (167, 10382), (169, 10430), (171, 10514), (173, 10526), (175, 10538), (177, 10550), (180, 10586), (188, 10688), (206, 10868), (215, 10964), (220, 11003), (222, 11024), (223, 11033), (225, 11057), (227, 11072), (228, 11081), (232, 11102),

Gene: Lidong_8 Start: 8384, Stop: 10936, Start Num: 26

Candidate Starts for Lidong_8:

(Start: 26 @8384 has 51 MA's), (Start: 30 @8420 has 1 MA's), (43, 8501), (46, 8537), (51, 8585), (56, 8633), (69, 8735), (82, 8897), (90, 8975), (93, 8993), (101, 9110), (108, 9182), (118, 9254), (120, 9284), (121, 9293), (122, 9305), (128, 9353), (134, 9383), (142, 9452), (143, 9458), (144, 9467), (145, 9494), (149, 9617), (150, 9674), (151, 9677), (152, 9689), (153, 9710), (158, 9884), (161, 9929), (162, 9962), (163, 9980), (165, 10019), (168, 10172), (173, 10274), (175, 10286), (177, 10298), (180, 10334), (188, 10436), (206, 10616), (215, 10712), (220, 10751), (222, 10772), (223, 10781), (225, 10805), (227, 10820), (228, 10829), (232, 10850),

Gene: Linetti_12 Start: 9316, Stop: 11043, Start Num: 26

Candidate Starts for Linetti_12:

(Start: 26 @9316 has 51 MA's), (45, 9448), (46, 9469), (51, 9517), (56, 9565), (60, 9610), (63, 9640), (69, 9667), (70, 9706), (80, 9799), (93, 9925), (108, 10114), (118, 10186), (122, 10237), (128, 10285), (134, 10315), (171, 10369), (173, 10381), (175, 10393), (177, 10405), (180, 10441), (184, 10522), (186, 10534), (188, 10543), (215, 10819), (220, 10858), (222, 10879), (223, 10888), (225, 10912), (227, 10927),

Gene: Lizzo_11 Start: 9165, Stop: 10892, Start Num: 26

Candidate Starts for Lizzo_11:

(Start: 26 @9165 has 51 MA's), (43, 9282), (45, 9297), (46, 9318), (51, 9366), (56, 9414), (63, 9489), (67, 9504), (69, 9516), (93, 9774), (108, 9963), (118, 10035), (122, 10086), (128, 10134), (171, 10218), (173, 10230), (175, 10242), (177, 10254), (180, 10290), (186, 10383), (192, 10422), (215, 10668), (220, 10707), (222, 10728), (223, 10737), (225, 10761), (227, 10776),

Gene: Luker_8 Start: 8378, Stop: 10930, Start Num: 26

Candidate Starts for Luker_8:

(Start: 26 @8378 has 51 MA's), (Start: 30 @8414 has 1 MA's), (43, 8495), (46, 8531), (51, 8579), (56, 8627), (63, 8702), (67, 8717), (69, 8729), (80, 8861), (82, 8891), (90, 8969), (93, 8987), (101, 9104), (108, 9176), (118, 9248), (120, 9278), (121, 9287), (122, 9299), (128, 9347), (142, 9446), (143, 9452), (144, 9461), (145, 9488), (149, 9611), (150, 9668), (151, 9671), (152, 9683), (153, 9704), (158, 9878), (161, 9923), (162, 9956), (163, 9974), (165, 10013), (168, 10166), (173, 10268), (175, 10280), (177, 10292), (180, 10328), (188, 10430), (206, 10610), (215, 10706), (220, 10745), (222, 10766), (223, 10775), (225, 10799), (227, 10814), (228, 10823), (232, 10844),

Gene: Mbo2_8 Start: 4883, Stop: 6661, Start Num: 27

Candidate Starts for Mbo2_8:

(25, 4877), (Start: 27 @4883 has 17 MA's), (33, 4925), (48, 5051), (50, 5072), (51, 5075), (56, 5123), (58, 5135), (67, 5213), (74, 5312), (80, 5357), (85, 5408), (93, 5486), (97, 5555), (99, 5564), (102, 5609), (108, 5678), (112, 5696), (113, 5699), (114, 5717), (115, 5720), (120, 5780), (122, 5801), (124, 5825), (134, 5879), (135, 5882), (138, 5918), (171, 5933), (173, 5945), (180, 6005), (183, 6071), (205, 6269), (208, 6380), (213, 6440), (234, 6590), (236, 6602), (246, 6647),

Gene: Minos_8 Start: 8384, Stop: 10936, Start Num: 26

Candidate Starts for Minos_8:

(Start: 26 @8384 has 51 MA's), (Start: 30 @8420 has 1 MA's), (43, 8501), (46, 8537), (51, 8585), (56, 8633), (69, 8735), (82, 8897), (90, 8975), (93, 8993), (101, 9110), (108, 9182), (118, 9254), (120, 9284), (121, 9293), (122, 9305), (128, 9353), (134, 9383), (142, 9452), (143, 9458), (144, 9467), (145, 9494), (149, 9617), (150, 9674), (151, 9677), (152, 9689), (153, 9710), (158, 9884), (161, 9929), (162, 9962), (163, 9980), (165, 10019), (168, 10172), (173, 10274), (175, 10286), (177, 10298), (180, 10334), (188, 10436), (206, 10616), (215, 10712), (220, 10751), (222, 10772), (223, 10781), (225, 10805), (227, 10820), (228, 10829), (232, 10850),

Gene: Monty_10 Start: 9178, Stop: 10905, Start Num: 26

Candidate Starts for Monty_10:

(Start: 26 @9178 has 51 MA's), (43, 9295), (45, 9310), (46, 9331), (51, 9379), (56, 9427), (63, 9502), (69, 9529), (93, 9787), (108, 9976), (118, 10048), (122, 10099), (128, 10147), (171, 10231), (173, 10243), (175, 10255), (177, 10267), (180, 10303), (186, 10396), (192, 10435), (215, 10681), (220, 10720), (222, 10741), (223, 10750), (225, 10774), (227, 10789),

Gene: MrWormie_8 Start: 8373, Stop: 10100, Start Num: 26

Candidate Starts for MrWormie_8:

(Start: 26 @8373 has 51 MA's), (Start: 30 @8409 has 1 MA's), (43, 8490), (46, 8526), (51, 8574), (56, 8622), (63, 8697), (69, 8724), (82, 8886), (90, 8964), (93, 8982), (101, 9099), (108, 9171), (118, 9243), (120, 9273), (121, 9282), (122, 9294), (128, 9342), (134, 9372), (173, 9438), (175, 9450), (177, 9462), (180, 9498), (188, 9600), (206, 9780), (215, 9876), (220, 9915), (222, 9936), (223, 9945), (225, 9969), (227, 9984), (228, 9993), (232, 10014),

Gene: Msay19_12 Start: 9355, Stop: 11079, Start Num: 26

Candidate Starts for Msay19_12:

(Start: 26 @9355 has 51 MA's), (45, 9487), (46, 9508), (51, 9556), (56, 9604), (63, 9679), (69, 9706), (70, 9745), (91, 9958), (93, 9964), (108, 10153), (114, 10192), (118, 10225), (122, 10276), (128, 10324), (135, 10357), (171, 10408), (173, 10420), (175, 10432), (177, 10444), (180, 10480), (192, 10612), (215, 10855), (220, 10894), (222, 10915), (223, 10924), (227, 10963),

Gene: Neoevie_8 Start: 8376, Stop: 10928, Start Num: 26

Candidate Starts for Neoevie_8:

(Start: 26 @8376 has 51 MA's), (Start: 30 @8412 has 1 MA's), (43, 8493), (46, 8529), (51, 8577), (56, 8625), (63, 8700), (67, 8715), (69, 8727), (80, 8859), (82, 8889), (90, 8967), (93, 8985), (101, 9102),

(108, 9174), (118, 9246), (120, 9276), (121, 9285), (122, 9297), (128, 9345), (142, 9444), (143, 9450), (144, 9459), (145, 9486), (149, 9609), (150, 9666), (151, 9669), (152, 9681), (153, 9702), (158, 9876), (161, 9921), (162, 9954), (163, 9972), (165, 10011), (168, 10164), (173, 10266), (175, 10278), (177, 10290), (180, 10326), (188, 10428), (206, 10608), (215, 10704), (220, 10743), (222, 10764), (223, 10773), (225, 10797), (227, 10812), (228, 10821), (232, 10842),

Gene: Newt_8 Start: 8395, Stop: 10947, Start Num: 26

Candidate Starts for Newt_8:

(Start: 26 @8395 has 51 MA's), (Start: 30 @8431 has 1 MA's), (43, 8512), (46, 8548), (51, 8596), (56, 8644), (63, 8719), (67, 8734), (69, 8746), (80, 8878), (82, 8908), (90, 8986), (93, 9004), (101, 9121), (108, 9193), (118, 9265), (120, 9295), (121, 9304), (122, 9316), (128, 9364), (142, 9463), (143, 9469), (144, 9478), (145, 9505), (149, 9628), (150, 9685), (151, 9688), (152, 9700), (153, 9721), (158, 9895), (161, 9940), (162, 9973), (163, 9991), (165, 10030), (168, 10183), (173, 10285), (175, 10297), (177, 10309), (180, 10345), (188, 10447), (206, 10627), (215, 10723), (220, 10762), (222, 10783), (223, 10792), (225, 10816), (227, 10831), (228, 10840), (232, 10861),

Gene: Niagara_11 Start: 10835, Stop: 12574, Start Num: 27

Candidate Starts for Niagara_11:

(25, 10829), (Start: 27 @10835 has 17 MA's), (Start: 30 @10868 has 1 MA's), (43, 10958), (49, 11024), (51, 11042), (53, 11078), (56, 11090), (57, 11093), (65, 11168), (68, 11183), (70, 11231), (73, 11270), (78, 11309), (85, 11372), (87, 11417), (89, 11423), (93, 11453), (101, 11570), (108, 11642), (114, 11681), (115, 11684), (118, 11714), (120, 11744), (122, 11765), (127, 11801), (128, 11813), (171, 11897), (173, 11909), (180, 11969), (190, 12089), (191, 12092), (201, 12155), (212, 12323), (229, 12461), (236, 12512), (246, 12557),

Gene: Nimi13_8 Start: 8396, Stop: 10948, Start Num: 26

Candidate Starts for Nimi13_8:

(21, 8369), (Start: 26 @8396 has 51 MA's), (Start: 30 @8432 has 1 MA's), (43, 8513), (46, 8549), (51, 8597), (56, 8645), (63, 8720), (67, 8735), (69, 8747), (80, 8879), (82, 8909), (90, 8987), (93, 9005), (101, 9122), (108, 9194), (118, 9266), (120, 9296), (121, 9305), (122, 9317), (128, 9365), (142, 9464), (143, 9470), (144, 9479), (145, 9506), (149, 9629), (150, 9686), (151, 9689), (152, 9701), (153, 9722), (158, 9896), (161, 9941), (162, 9974), (163, 9992), (165, 10031), (168, 10184), (173, 10286), (175, 10298), (177, 10310), (180, 10346), (188, 10448), (206, 10628), (215, 10724), (220, 10763), (222, 10784), (223, 10793), (225, 10817), (227, 10832), (228, 10841), (232, 10862),

Gene: Orchid_11 Start: 8747, Stop: 10516, Start Num: 27

Candidate Starts for Orchid_11:

(23, 8735), (Start: 27 @8747 has 17 MA's), (44, 8867), (50, 8942), (51, 8945), (53, 8981), (56, 8993), (60, 9038), (69, 9095), (70, 9134), (71, 9167), (72, 9170), (76, 9191), (92, 9386), (94, 9404), (95, 9419), (98, 9461), (99, 9467), (108, 9578), (113, 9599), (116, 9623), (118, 9650), (122, 9701), (125, 9728), (134, 9779), (171, 9833), (175, 9857), (176, 9860), (177, 9869), (180, 9905), (194, 10046), (241, 10484), (244, 10493),

Gene: PatrickStar_11 Start: 8747, Stop: 10516, Start Num: 27

Candidate Starts for PatrickStar_11:

(23, 8735), (Start: 27 @8747 has 17 MA's), (44, 8867), (50, 8942), (51, 8945), (53, 8981), (56, 8993), (60, 9038), (69, 9095), (70, 9134), (71, 9167), (72, 9170), (76, 9191), (92, 9386), (94, 9404), (95, 9419), (98, 9461), (99, 9467), (108, 9578), (113, 9599), (116, 9623), (118, 9650), (122, 9701), (125, 9728), (134, 9779), (171, 9833), (175, 9857), (176, 9860), (177, 9869), (180, 9905), (194, 10046), (241, 10484), (244, 10493),

Gene: Philon9_12 Start: 10358, Stop: 13012, Start Num: 2

Candidate Starts for Philon9_12:

(1, 10289), (2, 10358), (3, 10364), (4, 10373), (5, 10397), (6, 10409), (7, 10571), (8, 10607), (9, 10619), (10, 10697), (11, 10709), (12, 10760), (13, 10952), (14, 10988), (15, 11021), (16, 11027), (18, 11090), (31, 11243), (34, 11258), (47, 11378), (64, 11555), (66, 11567), (75, 11675), (79, 11720), (88, 11852), (90, 11867), (93, 11885), (95, 11915), (101, 12002), (103, 12035), (106, 12056), (108, 12074), (113, 12095), (115, 12116), (116, 12119), (118, 12146), (122, 12197), (128, 12245), (134, 12275), (171, 12329), (173, 12341), (175, 12353), (180, 12401), (185, 12491), (186, 12494), (188, 12503), (191, 12524), (201, 12587), (214, 12770), (229, 12893), (236, 12944), (246, 12989),

Gene: PierreThree_11 Start: 9163, Stop: 10890, Start Num: 26

Candidate Starts for PierreThree_11:

(Start: 26 @9163 has 51 MA's), (45, 9295), (46, 9316), (51, 9364), (56, 9412), (60, 9457), (63, 9487), (69, 9514), (70, 9553), (80, 9646), (93, 9772), (108, 9961), (118, 10033), (122, 10084), (128, 10132), (134, 10162), (171, 10216), (173, 10228), (175, 10240), (177, 10252), (180, 10288), (184, 10369), (186, 10381), (188, 10390), (215, 10666), (220, 10705), (222, 10726), (223, 10735), (225, 10759), (227, 10774),

Gene: PokyPuppy_10 Start: 9058, Stop: 10785, Start Num: 26

Candidate Starts for PokyPuppy_10:

(Start: 26 @9058 has 51 MA's), (39, 9145), (45, 9190), (46, 9211), (51, 9259), (56, 9307), (63, 9382), (67, 9397), (69, 9409), (93, 9667), (108, 9856), (118, 9928), (122, 9979), (128, 10027), (171, 10111), (173, 10123), (175, 10135), (177, 10147), (180, 10183), (186, 10276), (206, 10465), (215, 10561), (220, 10600), (222, 10621), (223, 10630), (225, 10654), (227, 10669),

Gene: Poland_14 Start: 9331, Stop: 11055, Start Num: 26

Candidate Starts for Poland_14:

(Start: 26 @9331 has 51 MA's), (45, 9463), (46, 9484), (51, 9532), (56, 9580), (63, 9655), (69, 9682), (70, 9721), (91, 9934), (93, 9940), (108, 10129), (114, 10168), (118, 10201), (122, 10252), (128, 10300), (135, 10333), (171, 10384), (173, 10396), (175, 10408), (177, 10420), (180, 10456), (192, 10588), (215, 10831), (220, 10870), (222, 10891), (223, 10900), (227, 10939),

Gene: RemRem_12 Start: 9177, Stop: 10901, Start Num: 26

Candidate Starts for RemRem_12:

(Start: 26 @9177 has 51 MA's), (43, 9294), (45, 9309), (46, 9330), (51, 9378), (56, 9426), (58, 9438), (63, 9501), (69, 9528), (70, 9567), (93, 9786), (108, 9975), (118, 10047), (122, 10098), (128, 10146), (171, 10230), (173, 10242), (175, 10254), (177, 10266), (180, 10302), (186, 10395), (192, 10434), (215, 10677), (220, 10716), (222, 10737), (223, 10746), (225, 10770), (227, 10785),

Gene: Reynauld_16 Start: 11632, Stop: 13386, Start Num: 27

Candidate Starts for Reynauld_16:

(Start: 27 @11632 has 17 MA's), (41, 11719), (42, 11734), (50, 11824), (51, 11827), (53, 11863), (56, 11875), (59, 11899), (80, 12103), (87, 12193), (89, 12199), (93, 12229), (102, 12352), (108, 12436), (109, 12439), (111, 12448), (113, 12457), (114, 12475), (115, 12478), (117, 12499), (120, 12538), (122, 12559), (134, 12637), (135, 12640), (138, 12676), (139, 12679), (171, 12691), (173, 12703), (180, 12763), (190, 12895), (195, 12925), (210, 13126), (226, 13264), (230, 13288), (231, 13291), (245, 13357),

Gene: RobinSparkles_15 Start: 9340, Stop: 11109, Start Num: 27

Candidate Starts for RobinSparkles_15:

(23, 9328), (Start: 27 @9340 has 17 MA's), (29, 9352), (44, 9460), (50, 9535), (51, 9538), (53, 9574), (56, 9586), (69, 9688), (70, 9727), (72, 9763), (76, 9784), (89, 9952), (92, 9979), (94, 9997), (95, 10012), (98, 10054), (99, 10060), (108, 10171), (113, 10192), (118, 10243), (122, 10294), (125, 10321), (134, 10372), (171, 10426), (177, 10462), (180, 10498), (241, 11077), (244, 11086),

Gene: RoyalG_12 Start: 9366, Stop: 11090, Start Num: 26

Candidate Starts for RoyalG_12:

(Start: 26 @9366 has 51 MA's), (28, 9378), (32, 9414), (45, 9498), (46, 9519), (51, 9567), (56, 9615), (59, 9639), (63, 9690), (65, 9693), (69, 9717), (77, 9816), (80, 9849), (91, 9969), (93, 9975), (108, 10164), (118, 10236), (122, 10287), (128, 10335), (134, 10365), (171, 10419), (173, 10431), (175, 10443), (177, 10455), (180, 10491), (186, 10584), (192, 10623), (206, 10770), (215, 10866), (220, 10905), (222, 10926), (223, 10935), (225, 10959), (227, 10974),

Gene: Sam12_11 Start: 9177, Stop: 10901, Start Num: 26

Candidate Starts for Sam12_11:

(Start: 26 @9177 has 51 MA's), (43, 9294), (45, 9309), (46, 9330), (51, 9378), (56, 9426), (63, 9501), (67, 9516), (69, 9528), (93, 9786), (108, 9975), (118, 10047), (122, 10098), (128, 10146), (171, 10230), (173, 10242), (175, 10254), (177, 10266), (180, 10302), (186, 10395), (192, 10434), (215, 10677), (220, 10716), (222, 10737), (223, 10746), (225, 10770), (227, 10785),

Gene: Shelley_8 Start: 8418, Stop: 10145, Start Num: 26

Candidate Starts for Shelley_8:

(21, 8391), (Start: 26 @8418 has 51 MA's), (Start: 30 @8454 has 1 MA's), (43, 8535), (46, 8571), (51, 8619), (56, 8667), (69, 8769), (82, 8931), (90, 9009), (93, 9027), (101, 9144), (108, 9216), (118, 9288), (120, 9318), (121, 9327), (167, 9339), (169, 9387), (173, 9483), (175, 9495), (177, 9507), (179, 9534), (180, 9543), (188, 9645), (206, 9825), (215, 9921), (220, 9960), (222, 9981), (223, 9990), (225, 10014), (227, 10029), (228, 10038), (232, 10059),

Gene: Sombrero_11 Start: 9211, Stop: 10935, Start Num: 26

Candidate Starts for Sombrero_11:

(Start: 26 @9211 has 51 MA's), (43, 9328), (45, 9343), (46, 9364), (51, 9412), (56, 9460), (63, 9535), (67, 9550), (69, 9562), (91, 9814), (93, 9820), (108, 10009), (114, 10048), (118, 10081), (122, 10132), (128, 10180), (135, 10213), (171, 10264), (173, 10276), (175, 10288), (177, 10300), (180, 10336), (192, 10468), (215, 10711), (220, 10750), (222, 10771), (223, 10780), (227, 10819),

Gene: Squibbles_11 Start: 9165, Stop: 10892, Start Num: 26

Candidate Starts for Squibbles_11:

(Start: 26 @9165 has 51 MA's), (43, 9282), (45, 9297), (46, 9318), (51, 9366), (56, 9414), (63, 9489), (67, 9504), (69, 9516), (93, 9774), (108, 9963), (118, 10035), (122, 10086), (128, 10134), (171, 10218), (173, 10230), (175, 10242), (177, 10254), (180, 10290), (186, 10383), (192, 10422), (215, 10668), (220, 10707), (222, 10728), (223, 10737), (225, 10761), (227, 10776),

Gene: SteveFrench_10 Start: 8960, Stop: 10684, Start Num: 26

Candidate Starts for SteveFrench_10:

(Start: 26 @8960 has 51 MA's), (28, 8972), (32, 9008), (45, 9092), (46, 9113), (51, 9161), (56, 9209), (59, 9233), (63, 9284), (65, 9287), (69, 9311), (80, 9443), (93, 9569), (108, 9758), (118, 9830), (122, 9881), (128, 9929), (171, 10013), (173, 10025), (175, 10037), (177, 10049), (180, 10085), (184, 10166), (186, 10178), (192, 10217), (215, 10460), (220, 10499), (222, 10520), (223, 10529), (225, 10553), (227, 10568),

Gene: Sticker17_8 Start: 8395, Stop: 10947, Start Num: 26

Candidate Starts for Sticker17_8:

(21, 8368), (Start: 26 @8395 has 51 MA's), (Start: 30 @8431 has 1 MA's), (43, 8512), (46, 8548), (51, 8596), (56, 8644), (69, 8746), (82, 8908), (90, 8986), (93, 9004), (101, 9121), (108, 9193), (118, 9265), (120, 9295), (121, 9304), (122, 9316), (128, 9364), (134, 9394), (142, 9463), (143, 9469), (144, 9478), (145, 9505), (149, 9628), (150, 9685), (151, 9688), (152, 9700), (153, 9721), (158, 9895), (161, 9940), (162, 9973), (163, 9991), (165, 10030), (168, 10183), (173, 10285), (175, 10297), (177, 10309), (180, 10345), (188, 10447), (206, 10627), (215, 10723), (220, 10762), (222, 10783), (223, 10792), (225,

10816), (227, 10831), (228, 10840), (232, 10861),

Gene: Teal_8 Start: 8372, Stop: 10924, Start Num: 26

Candidate Starts for Teal_8:

(Start: 26 @8372 has 51 MA's), (Start: 30 @8408 has 1 MA's), (43, 8489), (46, 8525), (51, 8573), (56, 8621), (63, 8696), (67, 8711), (69, 8723), (80, 8855), (82, 8885), (90, 8963), (93, 8981), (101, 9098), (108, 9170), (118, 9242), (120, 9272), (121, 9281), (122, 9293), (128, 9341), (142, 9440), (143, 9446), (144, 9455), (145, 9482), (149, 9605), (150, 9662), (151, 9665), (152, 9677), (153, 9698), (158, 9872), (161, 9917), (162, 9950), (163, 9968), (165, 10007), (168, 10160), (173, 10262), (175, 10274), (177, 10286), (180, 10322), (188, 10424), (206, 10604), (215, 10700), (220, 10739), (222, 10760), (223, 10769), (225, 10793), (227, 10808), (228, 10817), (232, 10838),

Gene: Teatealatte_11 Start: 10798, Stop: 12537, Start Num: 27

Candidate Starts for Teatealatte_11:

(25, 10792), (Start: 27 @10798 has 17 MA's), (Start: 30 @10831 has 1 MA's), (43, 10921), (49, 10987), (51, 11005), (53, 11041), (56, 11053), (57, 11056), (65, 11131), (68, 11146), (70, 11194), (73, 11233), (85, 11335), (87, 11380), (89, 11386), (93, 11416), (101, 11533), (103, 11566), (108, 11605), (114, 11644), (115, 11647), (118, 11677), (120, 11707), (122, 11728), (128, 11776), (171, 11860), (173, 11872), (180, 11932), (190, 12052), (191, 12055), (201, 12118), (212, 12286), (229, 12424), (236, 12475), (246, 12520),

Gene: Teech_11 Start: 10870, Stop: 12609, Start Num: 27

Candidate Starts for Teech_11:

(25, 10864), (Start: 27 @10870 has 17 MA's), (Start: 30 @10903 has 1 MA's), (43, 10993), (49, 11059), (51, 11077), (53, 11113), (56, 11125), (57, 11128), (65, 11203), (68, 11218), (70, 11266), (73, 11305), (78, 11344), (85, 11407), (87, 11452), (89, 11458), (93, 11488), (101, 11605), (103, 11638), (108, 11677), (114, 11716), (115, 11719), (118, 11749), (120, 11779), (122, 11800), (128, 11848), (171, 11932), (173, 11944), (180, 12004), (190, 12124), (191, 12127), (201, 12190), (212, 12358), (229, 12496), (236, 12547), (246, 12592),

Gene: Tredge_11 Start: 10798, Stop: 12537, Start Num: 27

Candidate Starts for Tredge_11:

(25, 10792), (Start: 27 @10798 has 17 MA's), (Start: 30 @10831 has 1 MA's), (43, 10921), (49, 10987), (51, 11005), (53, 11041), (56, 11053), (57, 11056), (65, 11131), (68, 11146), (70, 11194), (73, 11233), (85, 11335), (87, 11380), (89, 11386), (93, 11416), (101, 11533), (103, 11566), (108, 11605), (114, 11644), (115, 11647), (118, 11677), (120, 11707), (122, 11728), (128, 11776), (171, 11860), (173, 11872), (180, 11932), (190, 12052), (191, 12055), (201, 12118), (212, 12286), (229, 12424), (236, 12475), (246, 12520),

Gene: Trogglehumper_30 Start: 17919, Stop: 19799, Start Num: 17

Candidate Starts for Trogglehumper_30:

(Start: 17 @17919 has 1 MA's), (19, 17985), (22, 18042), (24, 18045), (Start: 30 @18090 has 1 MA's), (35, 18120), (38, 18153), (50, 18267), (51, 18270), (52, 18288), (56, 18318), (57, 18321), (63, 18393), (69, 18420), (77, 18519), (93, 18684), (96, 18750), (98, 18756), (100, 18780), (108, 18873), (110, 18882), (112, 18891), (115, 18915), (118, 18945), (126, 19029), (132, 19068), (138, 19113), (139, 19116), (172, 19134), (173, 19140), (180, 19200), (184, 19281), (185, 19290), (188, 19302), (189, 19305), (197, 19359), (200, 19383), (204, 19416), (207, 19470), (241, 19752), (242, 19755),

Gene: Woes_8 Start: 8408, Stop: 11197, Start Num: 26

Candidate Starts for Woes_8:

(21, 8381), (Start: 26 @8408 has 51 MA's), (Start: 30 @8444 has 1 MA's), (43, 8525), (46, 8561), (51, 8609), (56, 8657), (69, 8759), (82, 8921), (90, 8999), (93, 9017), (101, 9134), (108, 9206), (118, 9278), (121, 9317), (129, 9398), (131, 9401), (136, 9452), (137, 9458), (140, 9482), (141, 9491), (145, 9563),

(146, 9698), (147, 9704), (148, 9707), (150, 9788), (154, 9944), (155, 9965), (156, 9983), (157, 10049), (159, 10073), (160, 10091), (164, 10205), (165, 10214), (166, 10367), (167, 10391), (169, 10439), (171, 10523), (173, 10535), (175, 10547), (177, 10559), (180, 10595), (188, 10697), (206, 10877), (215, 10973), (220, 11012), (222, 11033), (223, 11042), (225, 11066), (227, 11081), (228, 11090), (232, 11111),