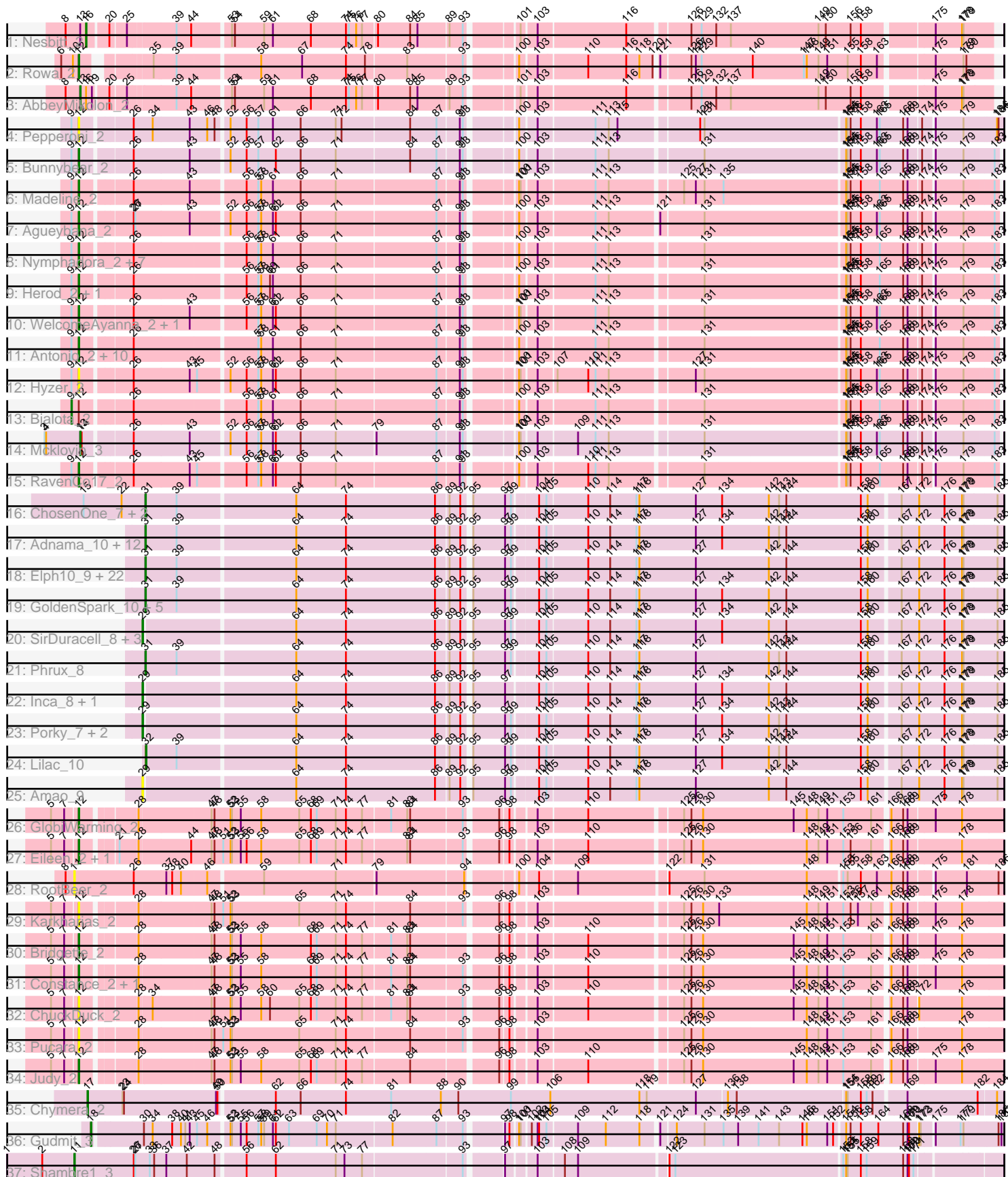


Pham 163474



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 163474 Report

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

Pham number 163474 has 105 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Nesbitt_2
- Track 2 : Rowa_2
- Track 3 : AbbeyMikolon_2
- Track 4 : Pepperoni_2
- Track 5 : Bunnybear_2
- Track 6 : Madeline_2
- Track 7 : Agueybana_2
- Track 8 : Nymphadora_2, AlumE_2, Eviarto_2, BatStarr_2, BoyNamedSue_2, TimTam_2, Zirinka_2, Bosnia_2
- Track 9 : Herod_2, Hugley_2
- Track 10 : WelcomeAyanna_2, ThankyouJordi_2
- Track 11 : Antonio_2, Suscepit_2, Polly_2, Trumpet_2, Manasvini_2, Maridalia_2, Kita_2, Zameen_2, Eudoria_2, Tayonia_2, Neobush_2
- Track 12 : Hyzer_2
- Track 13 : Bialota_2
- Track 14 : Mcklovin_3
- Track 15 : RavenCo17_2
- Track 16 : ChosenOne_7, Elite2014_7, Lilpickle_7
- Track 17 : Adnama_10, AmericanBeauty_10, Hoonter_10, TBrady12_10, Highbury_9, Saints25_9, Stank_10, Argent26_10, Xandras_10, Wiggins_10, Goldilocks_10, Gemini_10, Kimchi_10
- Track 18 : Elph10_9, Moldemort_9, Lilizi_10, Barbarian_8, MadamMonkfish_8, Bench_10, NoSleep_9, Murphy_8, Hopey_9, DoctorDiddles_9, Czyszczonek_9, Simpliphy_9, RiverMonster_8, Maxxinista_9, HanKaySha_9, 244_9, Dumbo_8, Asriel_8, Pumpkin_9, Holt_10, Filch_9, Stark_9, Ukulele_8
- Track 19 : GoldenSpark_10, Cactus_10, GooberAzure_10, StolenFromERC_10, OrionPax_9, Gage_10
- Track 20 : SirDuracell_8, BigBubba_8, Bask21_8, ChotaBhai_8
- Track 21 : Phrux_8
- Track 22 : Inca_8, Pat3_8
- Track 23 : Porky_7, Teaspoon_8, Emmina_8
- Track 24 : Lilac_10
- Track 25 : Amao_9
- Track 26 : GlobiWarming_2
- Track 27 : Eileen_2, Peas_2
- Track 28 : RootBeer_2
- Track 29 : Karkharias_2

- Track 30 : Bridgette_2
- Track 31 : Constance_2, PeggyLeg03_2
- Track 32 : ChuckDuck_2
- Track 33 : Pucara_2
- Track 34 : Judy_2
- Track 35 : Chymera_2
- Track 36 : Gudmit_3
- Track 37 : Shambre1_3

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

The start number called the most often in the published annotations is 31, it was called in 45 of the 95 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_9, Adnama_10, AmericanBeauty_10, Argent26_10, Asriel_8, Barbarian_8, Bench_10, Cactus_10, ChosenOne_7, Czyszczonek_9, DoctorDiddles_9, Dumbo_8, Elite2014_7, Elph10_9, Filch_9, Gage_10, Gemini_10, GoldenSpark_10, Goldilocks_10, GooberAzure_10, HanKaySha_9, Highbury_9, Holt_10, Hoonter_10, Hopey_9, Kimchi_10, Lilizi_10, Lilpickle_7, MadamMonkfish_8, Maxxinista_9, Moldemort_9, Murphy_8, NoSleep_9, OrionPax_9, Phrux_8, Pumpkin_9, RiverMonster_8, Saints25_9, Simpliphy_9, Stank_10, Stark_9, StolenFromERC_10, TBrady12_10, Ukulele_8, Wiggin_10, Xandras_10,

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

-

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

- AbbeyMikolon_2, Agueybana_2, AlumE_2, Amao_9, Antonio_2, Bask21_8, BatStarr_2, Bialota_2, BigBubba_8, Bosnia_2, BoyNamedSue_2, Bridgette_2, Bunnybear_2, ChotaBhai_8, ChuckDuck_2, Chymera_2, Constance_2, Eileen_2, Emmina_8, Eudoria_2, Eviarto_2, GlobiWarming_2, Gudmit_3, Herod_2, Hugley_2, Hyzer_2, Inca_8, Judy_2, Karkharias_2, Kita_2, Lilac_10, Madeline_2, Manasvini_2, Maridalia_2, Mcklovin_3, Neobush_2, Nesbitt_2, Nymphadora_2, Pat3_8, Peas_2, PeggyLeg03_2, Pepperoni_2, Polly_2, Porky_7, Pucara_2, RavenCo17_2, RootBeer_2, Rowa_2, Shambre1_3, SirDuracell_8, Suscepit_2, Tayonia_2, Teaspoon_8, ThankyouJordi_2, TimTam_2, Trumpet_2, WelcomeAyanna_2, Zameen_2, Zirinka_2,

Summary by start number:

Start 9:

- Found in 30 of 105 (28.6%) of genes in pham
- Manual Annotations of this start: 1 of 95
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Bialota_2 (CZ1),

Start 11:

- Found in 2 of 105 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 95

- Called 100.0% of time when present
- Phage (with cluster) where this start called: RootBeer_2 (FA), Shambre1_3 (singleton),

Start 12:

- Found in 41 of 105 (39.0%) of genes in pham
- Manual Annotations of this start: 34 of 95
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Agueybana_2 (CZ1), AlumE_2 (CZ1), Antonio_2 (CZ1), BatStarr_2 (CZ1), Bosnia_2 (CZ1), BoyNamedSue_2 (CZ1), Bridgette_2 (FA), Bunnybear_2 (CZ), ChuckDuck_2 (FA), Constance_2 (FA), Eileen_2 (FA), Eudoria_2 (CZ1), Eviarto_2 (CZ1), GlobiWarming_2 (FA), Herod_2 (CZ1), Hugley_2 (CZ1), Hyzer_2 (CZ1), Judy_2 (FA), Karkharias_2 (FA), Kita_2 (CZ1), Madeline_2 (CZ1), Manasvini_2 (CZ1), Maridalia_2 (CZ1), Neobush_2 (CZ1), Nymphadora_2 (CZ1), Peas_2 (FA), PeggyLeg03_2 (FA), Pepperoni_2 (CZ), Polly_2 (CZ1), Pucara_2 (FA), RavenCo17_2 (CZ8), Rowa_2 (BL), Suscepit_2 (CZ1), Tayonia_2 (CZ1), ThankyouJordi_2 (CZ1), TimTam_2 (CZ1), Trumpet_2 (CZ1), WelcomeAyanna_2 (CZ1), Zameen_2 (CZ1), Zirinka_2 (CZ1),

Start 13:

- Found in 3 of 105 (2.9%) of genes in pham
- Manual Annotations of this start: 2 of 95
- Called 66.7% of time when present
- Phage (with cluster) where this start called: AbbeyMikolon_2 (BL), Mcklovin_3 (CZ4),

Start 16:

- Found in 2 of 105 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 95
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nesbitt_2 (BL),

Start 17:

- Found in 1 of 105 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 95
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chymera_2 (singleton),

Start 18:

- Found in 1 of 105 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 95
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gudmit_3 (singleton),

Start 29:

- Found in 10 of 105 (9.5%) of genes in pham
- Manual Annotations of this start: 8 of 95
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amao_9 (E), Bask21_8 (E), BigBubba_8 (E), ChotaBhai_8 (E), Emmina_8 (E), Inca_8 (E), Pat3_8 (E), Porky_7 (E), SirDuracell_8 (E), Teaspoon_8 (E),

Start 31:

- Found in 46 of 105 (43.8%) of genes in pham
- Manual Annotations of this start: 45 of 95
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244_9 (E), Adnama_10 (E), AmericanBeauty_10 (E), Argent26_10 (E), Asriel_8 (E), Barbarian_8 (E), Bench_10 (E), Cactus_10 (E), ChosenOne_7 (E), Czyszczonek_9 (E), DoctorDiddles_9 (E), Dumbo_8 (E), Elite2014_7 (E), Elph10_9 (E), Filch_9 (E), Gage_10 (E), Gemini_10 (E), GoldenSpark_10 (E), Goldilocks_10 (E), GooberAzure_10 (E), HanKaySha_9 (E), Highbury_9 (E), Holt_10 (E), Hoonter_10 (E), Hopey_9 (E), Kimchi_10 (E), Lilizi_10 (E), Lilipickle_7 (E), MadamMonkfish_8 (E), Maxxinista_9 (E), Moldemort_9 (E), Murphy_8 (E), NoSleep_9 (E), OrionPax_9 (E), Phrux_8 (E), Pumpkin_9 (E), RiverMonster_8 (E), Saints25_9 (E), Simpliphy_9 (E), Stank_10 (E), Stark_9 (E), StolenFromERC_10 (E), TBrady12_10 (E), Ukulele_8 (E), Wiggin_10 (E), Xandras_10 (E),

Start 32:

- Found in 1 of 105 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 95
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lilac_10 (E),

Summary by clusters:

There are 8 clusters represented in this pham: CZ8, E, CZ, BL, CZ1, singleton, CZ4, FA,

Info for manual annotations of cluster BL:

- Start number 12 was manually annotated 1 time for cluster BL.
- Start number 13 was manually annotated 1 time for cluster BL.
- Start number 16 was manually annotated 1 time for cluster BL.

Info for manual annotations of cluster CZ:

- Start number 12 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 9 was manually annotated 1 time for cluster CZ1.
- Start number 12 was manually annotated 24 times for cluster CZ1.

Info for manual annotations of cluster CZ4:

- Start number 13 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ8:

- Start number 12 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster E:

- Start number 29 was manually annotated 8 times for cluster E.
- Start number 31 was manually annotated 45 times for cluster E.
- Start number 32 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster FA:

- Start number 12 was manually annotated 7 times for cluster FA.

Gene Information:

Gene: 244_9 Start: 2277, Stop: 3947, Start Num: 31

Candidate Starts for 244_9:

(Start: 31 @2277 has 45 MA's), (39, 2340), (64, 2574), (74, 2676), (86, 2856), (89, 2880), (92, 2898), (95, 2910), (97, 2973), (99, 2985), (104, 3030), (105, 3045), (110, 3123), (114, 3168), (117, 3222), (118, 3228), (127, 3342), (142, 3486), (144, 3522), (158, 3675), (160, 3687), (167, 3744), (172, 3780), (176, 3831), (178, 3867), (179, 3870), (185, 3936),

Gene: AbbeyMikolon_2 Start: 631, Stop: 2349, Start Num: 13

Candidate Starts for AbbeyMikolon_2:

(8, 601), (Start: 13 @631 has 2 MA's), (Start: 16 @643 has 1 MA's), (19, 655), (20, 682), (25, 712), (39, 802), (44, 832), (53, 901), (54, 907), (59, 967), (61, 985), (68, 1063), (74, 1135), (75, 1141), (76, 1156), (77, 1168), (80, 1195), (84, 1261), (85, 1276), (89, 1333), (93, 1360), (101, 1447), (103, 1471), (116, 1645), (126, 1759), (129, 1780), (132, 1810), (137, 1840), (149, 2017), (150, 2032), (156, 2080), (158, 2101), (175, 2233), (178, 2287), (179, 2290),

Gene: Adnama_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Adnama_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Agueybana_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Agueybana_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (27, 591), (43, 702), (52, 771), (56, 804), (57, 828), (58, 834), (61, 858), (62, 864), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (121, 1575), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (163, 1995), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: AlumE_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for AlumE_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Amao_9 Start: 2303, Stop: 3973, Start Num: 29

Candidate Starts for Amao_9:

(Start: 29 @2303 has 8 MA's), (64, 2600), (74, 2702), (86, 2882), (89, 2906), (92, 2924), (95, 2936), (97, 2999), (99, 3011), (104, 3056), (105, 3071), (110, 3149), (114, 3194), (117, 3248), (118, 3254), (127, 3368), (142, 3512), (144, 3548), (158, 3701), (160, 3713), (167, 3770), (172, 3806), (176, 3857), (178, 3893), (179, 3896), (185, 3962),

Gene: AmericanBeauty_10 Start: 2506, Stop: 4176, Start Num: 31

Candidate Starts for AmericanBeauty_10:

(Start: 31 @2506 has 45 MA's), (39, 2569), (64, 2803), (74, 2905), (86, 3085), (89, 3109), (92, 3127), (95, 3139), (97, 3202), (99, 3214), (104, 3259), (105, 3274), (110, 3352), (114, 3397), (117, 3451), (118, 3457), (127, 3571), (134, 3619), (142, 3715), (143, 3736), (144, 3751), (158, 3904), (160, 3916), (167, 3973), (172, 4009), (176, 4060), (178, 4096), (179, 4099), (185, 4165),

Gene: Antonio_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Antonio_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Argent26_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Argent26_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Asriel_8 Start: 2168, Stop: 3838, Start Num: 31

Candidate Starts for Asriel_8:

(Start: 31 @2168 has 45 MA's), (39, 2231), (64, 2465), (74, 2567), (86, 2747), (89, 2771), (92, 2789), (95, 2801), (97, 2864), (99, 2876), (104, 2921), (105, 2936), (110, 3014), (114, 3059), (117, 3113), (118, 3119), (127, 3233), (142, 3377), (144, 3413), (158, 3566), (160, 3578), (167, 3635), (172, 3671), (176, 3722), (178, 3758), (179, 3761), (185, 3827),

Gene: Barbarian_8 Start: 2168, Stop: 3838, Start Num: 31

Candidate Starts for Barbarian_8:

(Start: 31 @2168 has 45 MA's), (39, 2231), (64, 2465), (74, 2567), (86, 2747), (89, 2771), (92, 2789), (95, 2801), (97, 2864), (99, 2876), (104, 2921), (105, 2936), (110, 3014), (114, 3059), (117, 3113), (118, 3119), (127, 3233), (142, 3377), (144, 3413), (158, 3566), (160, 3578), (167, 3635), (172, 3671), (176, 3722), (178, 3758), (179, 3761), (185, 3827),

Gene: Bask21_8 Start: 1963, Stop: 3633, Start Num: 29

Candidate Starts for Bask21_8:

(Start: 29 @1963 has 8 MA's), (64, 2260), (74, 2362), (86, 2542), (89, 2566), (92, 2584), (95, 2596), (97, 2659), (99, 2671), (104, 2716), (105, 2731), (110, 2809), (114, 2854), (117, 2908), (118, 2914), (127, 3028), (134, 3076), (142, 3172), (144, 3208), (158, 3361), (160, 3373), (167, 3430), (172, 3466), (176, 3517), (178, 3553), (179, 3556), (185, 3622),

Gene: BatStarr_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for BatStarr_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Bench_10 Start: 2583, Stop: 4253, Start Num: 31

Candidate Starts for Bench_10:

(Start: 31 @2583 has 45 MA's), (39, 2646), (64, 2880), (74, 2982), (86, 3162), (89, 3186), (92, 3204), (95, 3216), (97, 3279), (99, 3291), (104, 3336), (105, 3351), (110, 3429), (114, 3474), (117, 3528), (118, 3534), (127, 3648), (142, 3792), (144, 3828), (158, 3981), (160, 3993), (167, 4050), (172, 4086), (176, 4137), (178, 4173), (179, 4176), (185, 4242),

Gene: Bialota_2 Start: 483, Stop: 2222, Start Num: 9

Candidate Starts for Bialota_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111,

1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: BigBubba_8 Start: 1963, Stop: 3633, Start Num: 29

Candidate Starts for BigBubba_8:

(Start: 29 @1963 has 8 MA's), (64, 2260), (74, 2362), (86, 2542), (89, 2566), (92, 2584), (95, 2596), (97, 2659), (99, 2671), (104, 2716), (105, 2731), (110, 2809), (114, 2854), (117, 2908), (118, 2914), (127, 3028), (134, 3076), (142, 3172), (144, 3208), (158, 3361), (160, 3373), (167, 3430), (172, 3466), (176, 3517), (178, 3553), (179, 3556), (185, 3622),

Gene: Bosnia_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Bosnia_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: BoyNamedSue_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for BoyNamedSue_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Bridgette_2 Start: 625, Stop: 2373, Start Num: 12

Candidate Starts for Bridgette_2:

(5, 574), (7, 601), (Start: 12 @625 has 34 MA's), (28, 718), (47, 859), (48, 865), (52, 898), (53, 901), (55, 919), (58, 961), (68, 1063), (69, 1075), (71, 1114), (74, 1135), (77, 1168), (81, 1222), (83, 1255), (84, 1261), (96, 1420), (98, 1435), (103, 1474), (110, 1570), (125, 1747), (126, 1762), (130, 1786), (145, 1969), (148, 1996), (149, 2020), (151, 2038), (153, 2068), (161, 2125), (166, 2152), (168, 2176), (169, 2185), (175, 2236), (178, 2290),

Gene: Bunnybear_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Bunnybear_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (43, 702), (52, 771), (56, 804), (57, 828), (62, 864), (66, 915), (71, 987), (84, 1134), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (163, 1995), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Cactus_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Cactus_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: ChosenOne_7 Start: 1729, Stop: 3399, Start Num: 31

Candidate Starts for ChosenOne_7:

(15, 1603), (22, 1681), (Start: 31 @1729 has 45 MA's), (39, 1792), (64, 2026), (74, 2128), (86, 2308), (89, 2332), (92, 2350), (95, 2362), (97, 2425), (99, 2437), (104, 2482), (105, 2497), (110, 2575), (114, 2620), (117, 2674), (118, 2680), (127, 2794), (134, 2842), (142, 2938), (143, 2959), (144, 2974), (158, 3127), (160, 3139), (167, 3196), (172, 3232), (176, 3283), (178, 3319), (179, 3322), (185, 3388),

Gene: ChotaBhai_8 Start: 1963, Stop: 3633, Start Num: 29

Candidate Starts for ChotaBhai_8:

(Start: 29 @1963 has 8 MA's), (64, 2260), (74, 2362), (86, 2542), (89, 2566), (92, 2584), (95, 2596), (97, 2659), (99, 2671), (104, 2716), (105, 2731), (110, 2809), (114, 2854), (117, 2908), (118, 2914), (127, 3028), (134, 3076), (142, 3172), (144, 3208), (158, 3361), (160, 3373), (167, 3430), (172, 3466), (176, 3517), (178, 3553), (179, 3556), (185, 3622),

Gene: ChuckDuck_2 Start: 625, Stop: 2373, Start Num: 12

Candidate Starts for ChuckDuck_2:

(5, 574), (7, 601), (Start: 12 @625 has 34 MA's), (28, 718), (34, 742), (47, 859), (48, 865), (52, 898), (53, 901), (55, 919), (58, 961), (60, 979), (65, 1039), (68, 1063), (69, 1075), (71, 1114), (74, 1135), (77, 1168), (81, 1222), (83, 1255), (84, 1261), (93, 1363), (96, 1420), (98, 1435), (103, 1474), (110, 1570), (125, 1747), (126, 1762), (130, 1786), (145, 1969), (148, 1996), (149, 2020), (151, 2038), (153, 2068), (161, 2125), (166, 2152), (168, 2176), (169, 2185), (172, 2203), (178, 2290),

Gene: Chymera_2 Start: 579, Stop: 2390, Start Num: 17

Candidate Starts for Chymera_2:

(Start: 17 @579 has 1 MA's), (23, 651), (24, 654), (49, 843), (50, 846), (62, 954), (66, 1005), (74, 1098), (81, 1191), (88, 1290), (90, 1326), (99, 1434), (106, 1515), (118, 1698), (119, 1713), (127, 1812), (136, 1860), (138, 1878), (154, 2094), (155, 2097), (158, 2124), (159, 2136), (162, 2148), (169, 2205), (182, 2346), (184, 2379),

Gene: Constance_2 Start: 626, Stop: 2374, Start Num: 12

Candidate Starts for Constance_2:

(5, 575), (7, 602), (Start: 12 @626 has 34 MA's), (28, 719), (47, 860), (48, 866), (52, 899), (53, 902), (55, 920), (58, 962), (68, 1064), (69, 1076), (71, 1115), (74, 1136), (77, 1169), (81, 1223), (83, 1256), (84, 1262), (93, 1364), (96, 1421), (98, 1436), (103, 1475), (110, 1571), (125, 1748), (126, 1763), (130, 1787), (145, 1970), (148, 1997), (149, 2021), (151, 2039), (153, 2069), (161, 2126), (166, 2153), (168, 2177), (169, 2186), (175, 2237), (178, 2291),

Gene: Czyszczone1_9 Start: 2465, Stop: 4135, Start Num: 31

Candidate Starts for Czyszczone1_9:

(Start: 31 @2465 has 45 MA's), (39, 2528), (64, 2762), (74, 2864), (86, 3044), (89, 3068), (92, 3086), (95, 3098), (97, 3161), (99, 3173), (104, 3218), (105, 3233), (110, 3311), (114, 3356), (117, 3410), (118, 3416), (127, 3530), (142, 3674), (144, 3710), (158, 3863), (160, 3875), (167, 3932), (172, 3968), (176, 4019), (178, 4055), (179, 4058), (185, 4124),

Gene: DoctorDiddles_9 Start: 2462, Stop: 4132, Start Num: 31

Candidate Starts for DoctorDiddles_9:

(Start: 31 @2462 has 45 MA's), (39, 2525), (64, 2759), (74, 2861), (86, 3041), (89, 3065), (92, 3083), (95, 3095), (97, 3158), (99, 3170), (104, 3215), (105, 3230), (110, 3308), (114, 3353), (117, 3407), (118, 3413), (127, 3527), (142, 3671), (144, 3707), (158, 3860), (160, 3872), (167, 3929), (172, 3965), (176, 4016), (178, 4052), (179, 4055), (185, 4121),

Gene: Dumbo_8 Start: 2277, Stop: 3947, Start Num: 31

Candidate Starts for Dumbo_8:

(Start: 31 @2277 has 45 MA's), (39, 2340), (64, 2574), (74, 2676), (86, 2856), (89, 2880), (92, 2898), (95, 2910), (97, 2973), (99, 2985), (104, 3030), (105, 3045), (110, 3123), (114, 3168), (117, 3222), (118, 3228), (127, 3342), (142, 3486), (144, 3522), (158, 3675), (160, 3687), (167, 3744), (172, 3780), (176, 3831), (178, 3867), (179, 3870), (185, 3936),

Gene: Eileen_2 Start: 625, Stop: 2373, Start Num: 12

Candidate Starts for Eileen_2:

(5, 574), (7, 601), (Start: 12 @625 has 34 MA's), (21, 685), (28, 718), (44, 820), (47, 859), (48, 865), (51, 883), (52, 898), (53, 901), (55, 919), (56, 931), (58, 961), (65, 1039), (68, 1063), (69, 1075), (71, 1114), (74, 1135), (77, 1168), (83, 1255), (84, 1261), (93, 1363), (96, 1420), (98, 1435), (103, 1474), (110, 1570), (125, 1747), (126, 1762), (130, 1786), (148, 1996), (149, 2020), (151, 2038), (153, 2068), (156, 2083), (161, 2125), (166, 2152), (168, 2176), (169, 2185), (178, 2290),

Gene: Elite2014_7 Start: 1729, Stop: 3399, Start Num: 31

Candidate Starts for Elite2014_7:

(15, 1603), (22, 1681), (Start: 31 @1729 has 45 MA's), (39, 1792), (64, 2026), (74, 2128), (86, 2308), (89, 2332), (92, 2350), (95, 2362), (97, 2425), (99, 2437), (104, 2482), (105, 2497), (110, 2575), (114, 2620), (117, 2674), (118, 2680), (127, 2794), (134, 2842), (142, 2938), (143, 2959), (144, 2974), (158, 3127), (160, 3139), (167, 3196), (172, 3232), (176, 3283), (178, 3319), (179, 3322), (185, 3388),

Gene: Elph10_9 Start: 2280, Stop: 3950, Start Num: 31

Candidate Starts for Elph10_9:

(Start: 31 @2280 has 45 MA's), (39, 2343), (64, 2577), (74, 2679), (86, 2859), (89, 2883), (92, 2901), (95, 2913), (97, 2976), (99, 2988), (104, 3033), (105, 3048), (110, 3126), (114, 3171), (117, 3225), (118, 3231), (127, 3345), (142, 3489), (144, 3525), (158, 3678), (160, 3690), (167, 3747), (172, 3783), (176, 3834), (178, 3870), (179, 3873), (185, 3939),

Gene: Emmina_8 Start: 1834, Stop: 3504, Start Num: 29

Candidate Starts for Emmina_8:

(Start: 29 @1834 has 8 MA's), (64, 2131), (74, 2233), (86, 2413), (89, 2437), (92, 2455), (95, 2467), (97, 2530), (99, 2542), (104, 2587), (105, 2602), (110, 2680), (114, 2725), (117, 2779), (118, 2785), (127, 2899), (134, 2947), (142, 3043), (143, 3064), (144, 3079), (158, 3232), (160, 3244), (167, 3301), (172, 3337), (176, 3388), (178, 3424), (179, 3427), (185, 3493),

Gene: Eudoria_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Eudoria_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Eviarto_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Eviarto_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Filch_9 Start: 2274, Stop: 3944, Start Num: 31

Candidate Starts for Filch_9:

(Start: 31 @2274 has 45 MA's), (39, 2337), (64, 2571), (74, 2673), (86, 2853), (89, 2877), (92, 2895), (95, 2907), (97, 2970), (99, 2982), (104, 3027), (105, 3042), (110, 3120), (114, 3165), (117, 3219), (118, 3225), (127, 3339), (142, 3483), (144, 3519), (158, 3672), (160, 3684), (167, 3741), (172, 3777), (176, 3828), (178, 3864), (179, 3867), (185, 3933),

Gene: Gage_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Gage_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (144, 3754), (158, 3907), (160, 3919), (167, 3976),

(172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Gemini_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Gemini_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: GlobiWarming_2 Start: 625, Stop: 2373, Start Num: 12

Candidate Starts for GlobiWarming_2:

(5, 574), (7, 601), (Start: 12 @625 has 34 MA's), (28, 718), (47, 859), (48, 865), (52, 898), (53, 901), (55, 919), (58, 961), (65, 1039), (68, 1063), (69, 1075), (71, 1114), (74, 1135), (77, 1168), (81, 1222), (83, 1255), (84, 1261), (93, 1363), (96, 1420), (98, 1435), (103, 1474), (110, 1570), (125, 1747), (126, 1762), (130, 1786), (145, 1969), (148, 1996), (149, 2020), (151, 2038), (153, 2068), (161, 2125), (166, 2152), (168, 2176), (169, 2185), (175, 2236), (178, 2290),

Gene: GoldenSpark_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for GoldenSpark_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Goldilocks_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Goldilocks_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: GooberAzure_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for GooberAzure_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Gudmit_3 Start: 983, Stop: 2704, Start Num: 18

Candidate Starts for Gudmit_3:

(Start: 18 @983 has 1 MA's), (30, 1076), (34, 1094), (38, 1133), (40, 1151), (41, 1160), (43, 1169), (45, 1181), (46, 1202), (52, 1238), (53, 1241), (55, 1259), (56, 1271), (57, 1295), (58, 1301), (59, 1307), (61, 1325), (62, 1331), (63, 1358), (69, 1415), (70, 1436), (71, 1454), (82, 1565), (87, 1652), (93, 1700), (97, 1763), (98, 1772), (100, 1784), (101, 1787), (102, 1802), (103, 1811), (104, 1814), (105, 1829), (109, 1886), (112, 1943), (118, 2012), (121, 2042), (124, 2069), (131, 2126), (135, 2162), (139, 2192), (141, 2231), (143, 2273), (146, 2321), (148, 2330), (151, 2372), (152, 2384), (154, 2402), (156, 2411), (158, 2432), (164, 2468), (168, 2519), (169, 2528), (170, 2531), (172, 2546), (173, 2549), (175, 2570), (177, 2621), (179, 2627), (186, 2693), (187, 2699),

Gene: HanKaySha_9 Start: 2465, Stop: 4135, Start Num: 31

Candidate Starts for HanKaySha_9:

(Start: 31 @2465 has 45 MA's), (39, 2528), (64, 2762), (74, 2864), (86, 3044), (89, 3068), (92, 3086), (95, 3098), (97, 3161), (99, 3173), (104, 3218), (105, 3233), (110, 3311), (114, 3356), (117, 3410),

(118, 3416), (127, 3530), (142, 3674), (144, 3710), (158, 3863), (160, 3875), (167, 3932), (172, 3968), (176, 4019), (178, 4055), (179, 4058), (185, 4124),

Gene: Herod_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Herod_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (60, 852), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Highbury_9 Start: 2474, Stop: 4144, Start Num: 31

Candidate Starts for Highbury_9:

(Start: 31 @2474 has 45 MA's), (39, 2537), (64, 2771), (74, 2873), (86, 3053), (89, 3077), (92, 3095), (95, 3107), (97, 3170), (99, 3182), (104, 3227), (105, 3242), (110, 3320), (114, 3365), (117, 3419), (118, 3425), (127, 3539), (134, 3587), (142, 3683), (143, 3704), (144, 3719), (158, 3872), (160, 3884), (167, 3941), (172, 3977), (176, 4028), (178, 4064), (179, 4067), (185, 4133),

Gene: Holt_10 Start: 2580, Stop: 4250, Start Num: 31

Candidate Starts for Holt_10:

(Start: 31 @2580 has 45 MA's), (39, 2643), (64, 2877), (74, 2979), (86, 3159), (89, 3183), (92, 3201), (95, 3213), (97, 3276), (99, 3288), (104, 3333), (105, 3348), (110, 3426), (114, 3471), (117, 3525), (118, 3531), (127, 3645), (142, 3789), (144, 3825), (158, 3978), (160, 3990), (167, 4047), (172, 4083), (176, 4134), (178, 4170), (179, 4173), (185, 4239),

Gene: Hoonter_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Hoonter_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Hokey_9 Start: 2274, Stop: 3944, Start Num: 31

Candidate Starts for Hokey_9:

(Start: 31 @2274 has 45 MA's), (39, 2337), (64, 2571), (74, 2673), (86, 2853), (89, 2877), (92, 2895), (95, 2907), (97, 2970), (99, 2982), (104, 3027), (105, 3042), (110, 3120), (114, 3165), (117, 3219), (118, 3225), (127, 3339), (142, 3483), (144, 3519), (158, 3672), (160, 3684), (167, 3741), (172, 3777), (176, 3828), (178, 3864), (179, 3867), (185, 3933),

Gene: Hugley_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Hugley_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (60, 852), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Hyzer_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Hyzer_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (43, 702), (45, 714), (52, 771), (56, 804), (57, 828), (58, 834), (61, 858), (62, 864), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (101, 1320), (103, 1344), (107, 1377), (110, 1440), (111, 1455), (113, 1482), (127, 1641), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (163, 1995), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Inca_8 Start: 1976, Stop: 3646, Start Num: 29

Candidate Starts for Inca_8:

(Start: 29 @1976 has 8 MA's), (64, 2273), (74, 2375), (86, 2555), (89, 2579), (92, 2597), (95, 2609), (97, 2672), (104, 2729), (105, 2744), (110, 2822), (114, 2867), (117, 2921), (118, 2927), (127, 3041), (134, 3089), (142, 3185), (144, 3221), (158, 3374), (160, 3386), (167, 3443), (172, 3479), (176, 3530), (178, 3566), (179, 3569), (185, 3635),

Gene: Judy_2 Start: 625, Stop: 2373, Start Num: 12

Candidate Starts for Judy_2:

(5, 574), (7, 601), (Start: 12 @625 has 34 MA's), (28, 718), (47, 859), (48, 865), (52, 898), (53, 901), (55, 919), (58, 961), (65, 1039), (68, 1063), (69, 1075), (71, 1114), (74, 1135), (77, 1168), (84, 1261), (96, 1420), (98, 1435), (103, 1474), (110, 1570), (125, 1747), (126, 1762), (130, 1786), (145, 1969), (148, 1996), (149, 2020), (151, 2038), (153, 2068), (161, 2125), (166, 2152), (168, 2176), (169, 2185), (175, 2236), (178, 2290),

Gene: Karkharias_2 Start: 625, Stop: 2373, Start Num: 12

Candidate Starts for Karkharias_2:

(5, 574), (7, 601), (Start: 12 @625 has 34 MA's), (28, 718), (47, 859), (48, 865), (51, 883), (52, 898), (53, 901), (65, 1039), (71, 1114), (74, 1135), (84, 1261), (93, 1363), (96, 1420), (98, 1435), (103, 1474), (125, 1747), (126, 1762), (130, 1786), (133, 1819), (148, 1996), (149, 2020), (151, 2038), (153, 2068), (156, 2083), (157, 2098), (161, 2125), (166, 2152), (168, 2176), (169, 2185), (175, 2236), (178, 2290),

Gene: Kimchi_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Kimchi_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Kita_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Kita_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Lilac_10 Start: 2301, Stop: 3971, Start Num: 32

Candidate Starts for Lilac_10:

(Start: 32 @2301 has 1 MA's), (39, 2364), (64, 2598), (74, 2700), (86, 2880), (89, 2904), (92, 2922), (95, 2934), (97, 2997), (99, 3009), (104, 3054), (105, 3069), (110, 3147), (114, 3192), (117, 3246), (118, 3252), (127, 3366), (134, 3414), (142, 3510), (143, 3531), (144, 3546), (158, 3699), (160, 3711), (167, 3768), (172, 3804), (176, 3855), (178, 3891), (179, 3894), (185, 3960),

Gene: Lilizi_10 Start: 2512, Stop: 4182, Start Num: 31

Candidate Starts for Lilizi_10:

(Start: 31 @2512 has 45 MA's), (39, 2575), (64, 2809), (74, 2911), (86, 3091), (89, 3115), (92, 3133), (95, 3145), (97, 3208), (99, 3220), (104, 3265), (105, 3280), (110, 3358), (114, 3403), (117, 3457), (118, 3463), (127, 3577), (142, 3721), (144, 3757), (158, 3910), (160, 3922), (167, 3979), (172, 4015), (176, 4066), (178, 4102), (179, 4105), (185, 4171),

Gene: Lilpickle_7 Start: 1729, Stop: 3399, Start Num: 31

Candidate Starts for Lilpickle_7:

(15, 1603), (22, 1681), (Start: 31 @1729 has 45 MA's), (39, 1792), (64, 2026), (74, 2128), (86, 2308), (89, 2332), (92, 2350), (95, 2362), (97, 2425), (99, 2437), (104, 2482), (105, 2497), (110, 2575), (114, 2620), (117, 2674), (118, 2680), (127, 2794), (134, 2842), (142, 2938), (143, 2959), (144, 2974), (158, 3127), (160, 3139), (167, 3196), (172, 3232), (176, 3283), (178, 3319), (179, 3322), (185, 3388),

Gene: MadamMonkfish_8 Start: 2141, Stop: 3811, Start Num: 31

Candidate Starts for MadamMonkfish_8:

(Start: 31 @2141 has 45 MA's), (39, 2204), (64, 2438), (74, 2540), (86, 2720), (89, 2744), (92, 2762), (95, 2774), (97, 2837), (99, 2849), (104, 2894), (105, 2909), (110, 2987), (114, 3032), (117, 3086), (118, 3092), (127, 3206), (142, 3350), (144, 3386), (158, 3539), (160, 3551), (167, 3608), (172, 3644), (176, 3695), (178, 3731), (179, 3734), (185, 3800),

Gene: Madeline_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Madeline_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (43, 702), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (101, 1320), (103, 1344), (111, 1455), (113, 1482), (125, 1617), (127, 1641), (131, 1659), (135, 1692), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Manasvini_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Manasvini_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Maridalia_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Maridalia_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Maxxinista_9 Start: 2280, Stop: 3950, Start Num: 31

Candidate Starts for Maxxinista_9:

(Start: 31 @2280 has 45 MA's), (39, 2343), (64, 2577), (74, 2679), (86, 2859), (89, 2883), (92, 2901), (95, 2913), (97, 2976), (99, 2988), (104, 3033), (105, 3048), (110, 3126), (114, 3171), (117, 3225), (118, 3231), (127, 3345), (142, 3489), (144, 3525), (158, 3678), (160, 3690), (167, 3747), (172, 3783), (176, 3834), (178, 3870), (179, 3873), (185, 3939),

Gene: Mcklovin_3 Start: 962, Stop: 2683, Start Num: 13

Candidate Starts for Mcklovin_3:

(3, 890), (4, 893), (Start: 13 @962 has 2 MA's), (14, 965), (26, 1049), (43, 1163), (52, 1232), (56, 1265), (57, 1289), (58, 1295), (61, 1319), (62, 1325), (66, 1376), (71, 1448), (79, 1526), (87, 1646), (91, 1688), (93, 1694), (100, 1778), (101, 1781), (103, 1805), (109, 1880), (111, 1916), (113, 1943), (131, 2120), (154, 2393), (155, 2396), (156, 2402), (158, 2423), (163, 2456), (165, 2462), (168, 2510), (169, 2519), (174, 2543), (175, 2561), (179, 2618), (183, 2675),

Gene: Moldemort_9 Start: 2465, Stop: 4135, Start Num: 31

Candidate Starts for Moldemort_9:

(Start: 31 @2465 has 45 MA's), (39, 2528), (64, 2762), (74, 2864), (86, 3044), (89, 3068), (92, 3086), (95, 3098), (97, 3161), (99, 3173), (104, 3218), (105, 3233), (110, 3311), (114, 3356), (117, 3410),

(118, 3416), (127, 3530), (142, 3674), (144, 3710), (158, 3863), (160, 3875), (167, 3932), (172, 3968), (176, 4019), (178, 4055), (179, 4058), (185, 4124),

Gene: Murphy_8 Start: 2182, Stop: 3852, Start Num: 31

Candidate Starts for Murphy_8:

(Start: 31 @2182 has 45 MA's), (39, 2245), (64, 2479), (74, 2581), (86, 2761), (89, 2785), (92, 2803), (95, 2815), (97, 2878), (99, 2890), (104, 2935), (105, 2950), (110, 3028), (114, 3073), (117, 3127), (118, 3133), (127, 3247), (142, 3391), (144, 3427), (158, 3580), (160, 3592), (167, 3649), (172, 3685), (176, 3736), (178, 3772), (179, 3775), (185, 3841),

Gene: Neobush_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Neobush_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Nesbitt_2 Start: 643, Stop: 2349, Start Num: 16

Candidate Starts for Nesbitt_2:

(8, 601), (Start: 13 @631 has 2 MA's), (Start: 16 @643 has 1 MA's), (20, 682), (25, 712), (39, 802), (44, 832), (53, 901), (54, 907), (59, 967), (61, 985), (68, 1063), (74, 1135), (75, 1141), (76, 1156), (77, 1168), (80, 1195), (84, 1261), (85, 1276), (89, 1333), (93, 1360), (101, 1447), (103, 1471), (116, 1645), (126, 1759), (129, 1780), (132, 1810), (137, 1840), (149, 2017), (150, 2032), (156, 2080), (158, 2101), (175, 2233), (178, 2287), (179, 2290),

Gene: NoSleep_9 Start: 2462, Stop: 4132, Start Num: 31

Candidate Starts for NoSleep_9:

(Start: 31 @2462 has 45 MA's), (39, 2525), (64, 2759), (74, 2861), (86, 3041), (89, 3065), (92, 3083), (95, 3095), (97, 3158), (99, 3170), (104, 3215), (105, 3230), (110, 3308), (114, 3353), (117, 3407), (118, 3413), (127, 3527), (142, 3671), (144, 3707), (158, 3860), (160, 3872), (167, 3929), (172, 3965), (176, 4016), (178, 4052), (179, 4055), (185, 4121),

Gene: Nymphadora_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Nymphadora_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: OrionPax_9 Start: 2465, Stop: 4135, Start Num: 31

Candidate Starts for OrionPax_9:

(Start: 31 @2465 has 45 MA's), (39, 2528), (64, 2762), (74, 2864), (86, 3044), (89, 3068), (92, 3086), (95, 3098), (97, 3161), (99, 3173), (104, 3218), (105, 3233), (110, 3311), (114, 3356), (117, 3410), (118, 3416), (127, 3530), (134, 3578), (142, 3674), (144, 3710), (158, 3863), (160, 3875), (167, 3932), (172, 3968), (176, 4019), (178, 4055), (179, 4058), (185, 4124),

Gene: Pat3_8 Start: 2003, Stop: 3673, Start Num: 29

Candidate Starts for Pat3_8:

(Start: 29 @2003 has 8 MA's), (64, 2300), (74, 2402), (86, 2582), (89, 2606), (92, 2624), (95, 2636), (97, 2699), (104, 2756), (105, 2771), (110, 2849), (114, 2894), (117, 2948), (118, 2954), (127, 3068), (134, 3116), (142, 3212), (144, 3248), (158, 3401), (160, 3413), (167, 3470), (172, 3506), (176, 3557), (178, 3593), (179, 3596), (185, 3662),

Gene: Peas_2 Start: 625, Stop: 2373, Start Num: 12

Candidate Starts for Peas_2:

(5, 574), (7, 601), (Start: 12 @625 has 34 MA's), (21, 685), (28, 718), (44, 820), (47, 859), (48, 865), (51, 883), (52, 898), (53, 901), (55, 919), (56, 931), (58, 961), (65, 1039), (68, 1063), (69, 1075), (71, 1114), (74, 1135), (77, 1168), (83, 1255), (84, 1261), (93, 1363), (96, 1420), (98, 1435), (103, 1474), (110, 1570), (125, 1747), (126, 1762), (130, 1786), (148, 1996), (149, 2020), (151, 2038), (153, 2068), (156, 2083), (161, 2125), (166, 2152), (168, 2176), (169, 2185), (178, 2290),

Gene: PeggyLeg03_2 Start: 626, Stop: 2374, Start Num: 12

Candidate Starts for PeggyLeg03_2:

(5, 575), (7, 602), (Start: 12 @626 has 34 MA's), (28, 719), (47, 860), (48, 866), (52, 899), (53, 902), (55, 920), (58, 962), (68, 1064), (69, 1076), (71, 1115), (74, 1136), (77, 1169), (81, 1223), (83, 1256), (84, 1262), (93, 1364), (96, 1421), (98, 1436), (103, 1475), (110, 1571), (125, 1748), (126, 1763), (130, 1787), (145, 1970), (148, 1997), (149, 2021), (151, 2039), (153, 2069), (161, 2126), (166, 2153), (168, 2177), (169, 2186), (175, 2237), (178, 2291),

Gene: Pepperoni_2 Start: 498, Stop: 2234, Start Num: 12

Candidate Starts for Pepperoni_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (34, 627), (43, 702), (46, 735), (48, 750), (52, 771), (56, 804), (57, 828), (61, 858), (66, 915), (71, 987), (72, 999), (84, 1134), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (115, 1500), (128, 1650), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (163, 1995), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (184, 2220), (186, 2223),

Gene: Phrux_8 Start: 2260, Stop: 3930, Start Num: 31

Candidate Starts for Phrux_8:

(Start: 31 @2260 has 45 MA's), (39, 2323), (64, 2557), (74, 2659), (86, 2839), (89, 2863), (92, 2881), (95, 2893), (97, 2956), (99, 2968), (104, 3013), (105, 3028), (110, 3106), (114, 3151), (117, 3205), (118, 3211), (127, 3325), (142, 3469), (143, 3490), (144, 3505), (158, 3658), (160, 3670), (167, 3727), (172, 3763), (176, 3814), (178, 3850), (179, 3853), (185, 3919),

Gene: Polly_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Polly_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Porky_7 Start: 1834, Stop: 3504, Start Num: 29

Candidate Starts for Porky_7:

(Start: 29 @1834 has 8 MA's), (64, 2131), (74, 2233), (86, 2413), (89, 2437), (92, 2455), (95, 2467), (97, 2530), (99, 2542), (104, 2587), (105, 2602), (110, 2680), (114, 2725), (117, 2779), (118, 2785), (127, 2899), (134, 2947), (142, 3043), (143, 3064), (144, 3079), (158, 3232), (160, 3244), (167, 3301), (172, 3337), (176, 3388), (178, 3424), (179, 3427), (185, 3493),

Gene: Pucara_2 Start: 625, Stop: 2373, Start Num: 12

Candidate Starts for Pucara_2:

(5, 574), (7, 601), (Start: 12 @625 has 34 MA's), (28, 718), (47, 859), (48, 865), (51, 883), (52, 898), (53, 901), (65, 1039), (71, 1114), (74, 1135), (84, 1261), (93, 1363), (96, 1420), (98, 1435), (103, 1474), (125, 1747), (126, 1762), (130, 1786), (148, 1996), (149, 2020), (151, 2038), (153, 2068), (161, 2125), (166, 2152), (168, 2176), (169, 2185), (178, 2290),

Gene: Pumpkin_9 Start: 2278, Stop: 3948, Start Num: 31

Candidate Starts for Pumpkin_9:

(Start: 31 @2278 has 45 MA's), (39, 2341), (64, 2575), (74, 2677), (86, 2857), (89, 2881), (92, 2899), (95, 2911), (97, 2974), (99, 2986), (104, 3031), (105, 3046), (110, 3124), (114, 3169), (117, 3223), (118, 3229), (127, 3343), (142, 3487), (144, 3523), (158, 3676), (160, 3688), (167, 3745), (172, 3781), (176, 3832), (178, 3868), (179, 3871), (185, 3937),

Gene: RavenCo17_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for RavenCo17_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (43, 702), (45, 714), (56, 804), (57, 828), (58, 834), (61, 858), (62, 864), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (110, 1440), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: RiverMonster_8 Start: 2274, Stop: 3944, Start Num: 31

Candidate Starts for RiverMonster_8:

(Start: 31 @2274 has 45 MA's), (39, 2337), (64, 2571), (74, 2673), (86, 2853), (89, 2877), (92, 2895), (95, 2907), (97, 2970), (99, 2982), (104, 3027), (105, 3042), (110, 3120), (114, 3165), (117, 3219), (118, 3225), (127, 3339), (142, 3483), (144, 3519), (158, 3672), (160, 3684), (167, 3741), (172, 3777), (176, 3828), (178, 3864), (179, 3867), (185, 3933),

Gene: RootBeer_2 Start: 477, Stop: 2246, Start Num: 11

Candidate Starts for RootBeer_2:

(8, 459), (Start: 11 @477 has 1 MA's), (26, 594), (37, 660), (38, 672), (40, 690), (46, 741), (59, 843), (71, 990), (79, 1068), (94, 1239), (100, 1320), (104, 1350), (109, 1422), (122, 1593), (131, 1665), (148, 1869), (153, 1935), (155, 1944), (158, 1971), (163, 2004), (166, 2034), (168, 2058), (169, 2067), (175, 2109), (181, 2172), (186, 2235),

Gene: Rowa_2 Start: 530, Stop: 2230, Start Num: 12

Candidate Starts for Rowa_2:

(6, 494), (10, 518), (Start: 12 @530 has 34 MA's), (35, 638), (39, 683), (58, 842), (67, 926), (74, 1016), (78, 1055), (83, 1136), (93, 1241), (100, 1325), (103, 1352), (110, 1448), (116, 1526), (118, 1553), (120, 1580), (121, 1583), (126, 1640), (127, 1649), (129, 1661), (140, 1763), (147, 1868), (148, 1874), (149, 1898), (151, 1916), (155, 1955), (158, 1982), (163, 2015), (175, 2114), (179, 2171), (180, 2177),

Gene: Saints25_9 Start: 2474, Stop: 4144, Start Num: 31

Candidate Starts for Saints25_9:

(Start: 31 @2474 has 45 MA's), (39, 2537), (64, 2771), (74, 2873), (86, 3053), (89, 3077), (92, 3095), (95, 3107), (97, 3170), (99, 3182), (104, 3227), (105, 3242), (110, 3320), (114, 3365), (117, 3419), (118, 3425), (127, 3539), (134, 3587), (142, 3683), (143, 3704), (144, 3719), (158, 3872), (160, 3884), (167, 3941), (172, 3977), (176, 4028), (178, 4064), (179, 4067), (185, 4133),

Gene: Shambre1_3 Start: 1934, Stop: 3703, Start Num: 11

Candidate Starts for Shambre1_3:

(1, 1796), (2, 1868), (Start: 11 @1934 has 1 MA's), (26, 2054), (27, 2057), (33, 2087), (36, 2096), (37, 2120), (42, 2162), (48, 2216), (56, 2270), (62, 2327), (71, 2450), (73, 2468), (77, 2504), (93, 2696), (97, 2759), (103, 2807), (108, 2855), (109, 2882), (122, 3053), (123, 3065), (153, 3398), (154, 3404), (155, 3407), (158, 3434), (159, 3446), (168, 3521), (169, 3530), (170, 3533), (171, 3542),

Gene: Simpliphy_9 Start: 2465, Stop: 4135, Start Num: 31

Candidate Starts for Simpliphy_9:

(Start: 31 @2465 has 45 MA's), (39, 2528), (64, 2762), (74, 2864), (86, 3044), (89, 3068), (92, 3086), (95, 3098), (97, 3161), (99, 3173), (104, 3218), (105, 3233), (110, 3311), (114, 3356), (117, 3410),

(118, 3416), (127, 3530), (142, 3674), (144, 3710), (158, 3863), (160, 3875), (167, 3932), (172, 3968), (176, 4019), (178, 4055), (179, 4058), (185, 4124),

Gene: SirDuracell_8 Start: 1963, Stop: 3633, Start Num: 29

Candidate Starts for SirDuracell_8:

(Start: 29 @1963 has 8 MA's), (64, 2260), (74, 2362), (86, 2542), (89, 2566), (92, 2584), (95, 2596), (97, 2659), (99, 2671), (104, 2716), (105, 2731), (110, 2809), (114, 2854), (117, 2908), (118, 2914), (127, 3028), (134, 3076), (142, 3172), (144, 3208), (158, 3361), (160, 3373), (167, 3430), (172, 3466), (176, 3517), (178, 3553), (179, 3556), (185, 3622),

Gene: Stank_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Stank_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Stark_9 Start: 2277, Stop: 3947, Start Num: 31

Candidate Starts for Stark_9:

(Start: 31 @2277 has 45 MA's), (39, 2340), (64, 2574), (74, 2676), (86, 2856), (89, 2880), (92, 2898), (95, 2910), (97, 2973), (99, 2985), (104, 3030), (105, 3045), (110, 3123), (114, 3168), (117, 3222), (118, 3228), (127, 3342), (142, 3486), (144, 3522), (158, 3675), (160, 3687), (167, 3744), (172, 3780), (176, 3831), (178, 3867), (179, 3870), (185, 3936),

Gene: StolenFromERC_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for StolenFromERC_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Suscepit_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Suscepit_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: TBrady12_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for TBrady12_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Tayonia_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Tayonia_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Teaspoon_8 Start: 2003, Stop: 3673, Start Num: 29

Candidate Starts for Teaspoon_8:

(Start: 29 @2003 has 8 MA's), (64, 2300), (74, 2402), (86, 2582), (89, 2606), (92, 2624), (95, 2636), (97, 2699), (99, 2711), (104, 2756), (105, 2771), (110, 2849), (114, 2894), (117, 2948), (118, 2954), (127, 3068), (134, 3116), (142, 3212), (143, 3233), (144, 3248), (158, 3401), (160, 3413), (167, 3470), (172, 3506), (176, 3557), (178, 3593), (179, 3596), (185, 3662),

Gene: ThankyouJordi_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for ThankyouJordi_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (43, 702), (56, 804), (57, 828), (58, 834), (61, 858), (62, 864), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (101, 1320), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (163, 1995), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: TimTam_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for TimTam_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Trumpet_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Trumpet_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Ukulele_8 Start: 2277, Stop: 3947, Start Num: 31

Candidate Starts for Ukulele_8:

(Start: 31 @2277 has 45 MA's), (39, 2340), (64, 2574), (74, 2676), (86, 2856), (89, 2880), (92, 2898), (95, 2910), (97, 2973), (99, 2985), (104, 3030), (105, 3045), (110, 3123), (114, 3168), (117, 3222), (118, 3228), (127, 3342), (142, 3486), (144, 3522), (158, 3675), (160, 3687), (167, 3744), (172, 3780), (176, 3831), (178, 3867), (179, 3870), (185, 3936),

Gene: WelcomeAyanna_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for WelcomeAyanna_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (43, 702), (56, 804), (57, 828), (58, 834), (61, 858), (62, 864), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (101, 1320), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (163, 1995), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Wiggin_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Wiggin_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Xandras_10 Start: 2509, Stop: 4179, Start Num: 31

Candidate Starts for Xandras_10:

(Start: 31 @2509 has 45 MA's), (39, 2572), (64, 2806), (74, 2908), (86, 3088), (89, 3112), (92, 3130), (95, 3142), (97, 3205), (99, 3217), (104, 3262), (105, 3277), (110, 3355), (114, 3400), (117, 3454), (118, 3460), (127, 3574), (134, 3622), (142, 3718), (143, 3739), (144, 3754), (158, 3907), (160, 3919), (167, 3976), (172, 4012), (176, 4063), (178, 4099), (179, 4102), (185, 4168),

Gene: Zameen_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Zameen_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),

Gene: Zirinka_2 Start: 498, Stop: 2222, Start Num: 12

Candidate Starts for Zirinka_2:

(Start: 9 @483 has 1 MA's), (Start: 12 @498 has 34 MA's), (26, 588), (56, 804), (57, 828), (58, 834), (61, 858), (66, 915), (71, 987), (87, 1185), (91, 1227), (93, 1233), (100, 1317), (103, 1344), (111, 1455), (113, 1482), (131, 1659), (154, 1932), (155, 1935), (156, 1941), (158, 1962), (165, 2001), (168, 2049), (169, 2058), (174, 2082), (175, 2100), (179, 2157), (183, 2214),