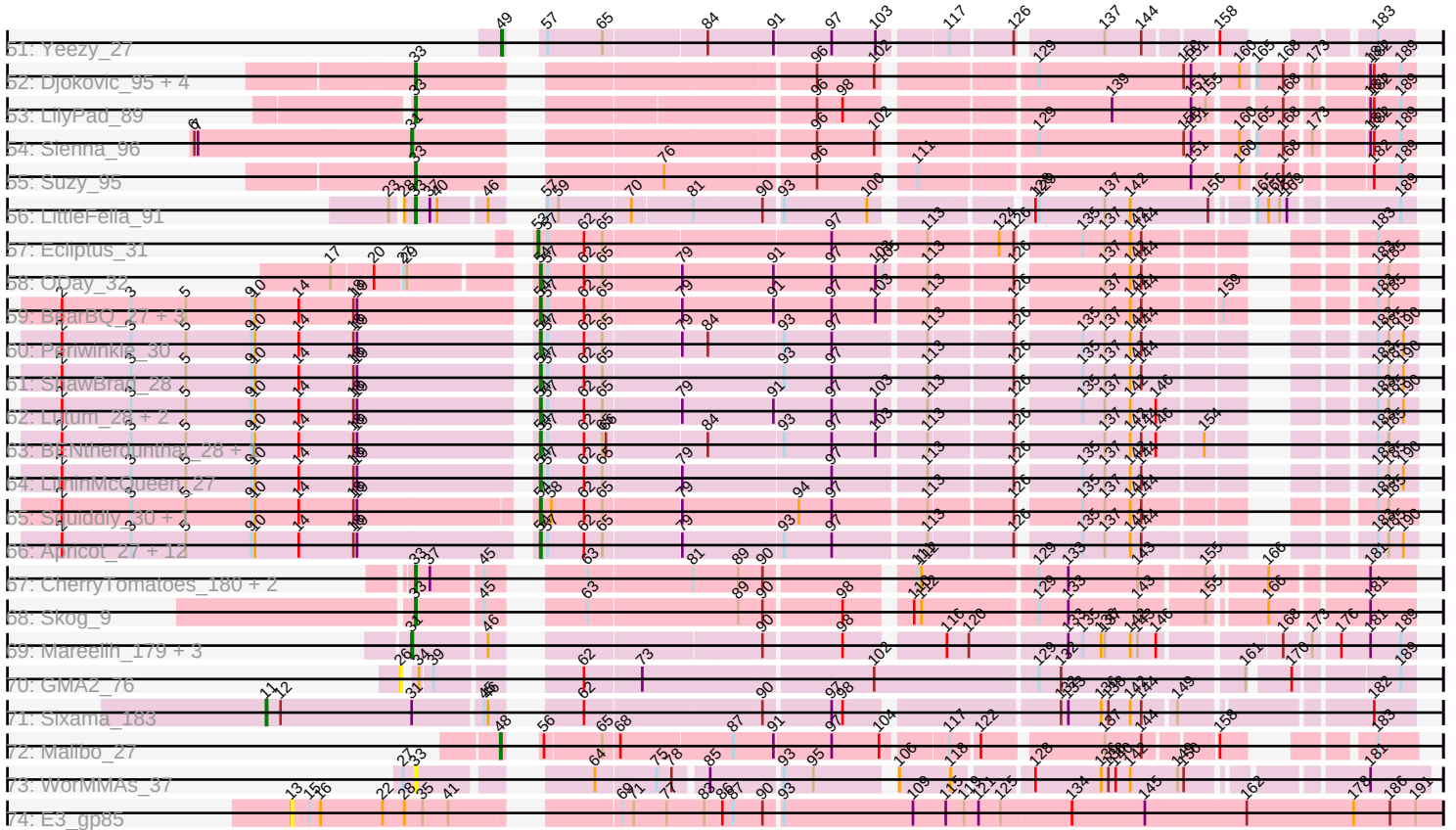


Pham 330588



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 330588 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330588 has 139 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Puppies_35
- Track 2 : Upyo_37
- Track 3 : Widow_36
- Track 4 : Trine_36
- Track 5 : Flapper_22
- Track 6 : Dalilpop_23
- Track 7 : GRU1_9
- Track 8 : GTE5_9
- Track 9 : Turuncu_22
- Track 10 : NatB6_19, Arti_19, GrootJr_21, Foxboro_20, Emianna_19, NovumRegina_19, Kurt_19, KidneyBean_19, Jifall16_18
- Track 11 : SuperSulley_20, Buggaboo_20
- Track 12 : Wheezy_19, Tracker_19
- Track 13 : GTE8_7
- Track 14 : Commandaria_20
- Track 15 : Phomeo_18
- Track 16 : Bonum_21, Kabluna_21, NosilaM_21
- Track 17 : Outis_19, StarStruck_19
- Track 18 : MerCougar_19
- Track 19 : Lollipop1437_23, Ennea_24
- Track 20 : RedRaider_25
- Track 21 : Patio_21
- Track 22 : Float294_20, Skysand_20
- Track 23 : WhoseManz_19
- Track 24 : Pemberton_20
- Track 25 : IDyn_18
- Track 26 : HubbaBubba_15
- Track 27 : Marietta_19
- Track 28 : Sukkupi_19, Yndexa_19, BiPauneto_20
- Track 29 : NadineRae_17
- Track 30 : Fury_25
- Track 31 : Pleakley_25
- Track 32 : HomeFry_22
- Track 33 : Scuba_25
- Track 34 : Confidence_26, BeeGee_26
- Track 35 : Angelique_28
- Track 36 : Cashline_26

- Track 37 : LonelyBoi_27
- Track 38 : SushiChef_27
- Track 39 : Ohgeesy_25
- Track 40 : Suscepit_27, Zameen_27, Dillpickles_28, Neobush_27, Antonio_27, Maridalia_26, Trumpet_27, Tayonia_27, Eudoria_27, Manasvini_27, Kita_27
- Track 41 : Polly_24
- Track 42 : Nymphadora_25
- Track 43 : BatStarr_25, Herod_25, TimTam_25, Bosnia_25, Eviarto_25
- Track 44 : Bialota_25, Zirinka_25
- Track 45 : ThankyouJordi_24, WelcomeAyanna_24
- Track 46 : Madavieve_25
- Track 47 : BoyNamedSue_26, AlumE_26, PantheRoc_26, Agueybana_26
- Track 48 : Madeline_25
- Track 49 : Hugley_25
- Track 50 : BaxterFox_25
- Track 51 : Yeezy_27
- Track 52 : Djokovic_95, Madi_94, BiteSize_95, Terapin_96, Beyoncage_95
- Track 53 : LilyPad_89
- Track 54 : Sienna_96
- Track 55 : Suzy_95
- Track 56 : LittleFella_91
- Track 57 : Ecliptus_31
- Track 58 : ODay_32
- Track 59 : BearBQ_27, MortyNRick_27, Kuwabara_27, Birdsong_27
- Track 60 : Periwinkle_30
- Track 61 : ShawBrad_28
- Track 62 : Lutum_28, Kenna_27, Asapag_28
- Track 63 : BENtherdunthat_28, BotCity_28
- Track 64 : LitninMcQueen_27
- Track 65 : Squiddly_30, Spooky_28
- Track 66 : Apricot_27, Kamaru_28, Getalong_29, Phabuloso_27, Horus_28, CheeseTouch_28, Frickyeah_27, Phistory_29, Crater_26, Holliday_28, Budski_28, Leroy_28, Whitney_29
- Track 67 : CherryTomatoes_180, Pupper_177, SCentae_176
- Track 68 : Skog_9
- Track 69 : Mareelih_179, Boopy_181, Forza_182, BlueNGold_178
- Track 70 : GMA2_76
- Track 71 : Sixama_183
- Track 72 : Malibo_27
- Track 73 : WorMMAs_37
- Track 74 : E3_gp85

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

The start number called the most often in the published annotations is 54, it was called in 28 of the 128 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apricot_27, Asapag_28, BENtherdunthat_28, BearBQ_27, Birdsong_27, BotCity_28, Budski_28, CheeseTouch_28, Crater_26, Frickyeah_27, Getalong_29, Holliday_28,

Horus_28, Kamaru_28, Kenna_27, Kuwabara_27, Leroy_28, LitninMcQueen_27, LonelyBoi_27, Lutum_28, MortyNRick_27, ODay_32, Periwinkle_30, Phabuloso_27, Phistory_29, ShawBrad_28, Spooky_28, Squiddly_30, Whitney_29,

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

-

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

- Agueybana_26, AlumE_26, Angelique_28, Antonio_27, Arti_19, BatStarr_25, BaxterFox_25, BeeGee_26, Beyoncage_95, BiPauneto_20, Bialota_25, BiteSize_95, BlueNGold_178, Bonum_21, Boopy_181, Bosnia_25, BoyNamedSue_26, Buggaboo_20, Cashline_26, CherryTomatoes_180, Commandaria_20, Confidence_26, Dalilpop_23, Dillpickles_28, Djokovic_95, E3_gp85, Ecliptus_31, Emianna_19, Ennea_24, Eudoria_27, Eviarto_25, Flapper_22, Float294_20, Forza_182, Foxboro_20, Fury_25, GMA2_76, GRU1_9, GTE5_9, GTE8_7, GrootJr_21, Herod_25, HomeFry_22, HubbaBubba_15, Hugley_25, IDyn_18, Jifall16_18, Kabluna_21, KidneyBean_19, Kita_27, Kurt_19, LilyPad_89, LittleFella_91, Lollipop1437_23, Madavieve_25, Madeline_25, Madi_94, Malibo_27, Manasvini_27, Mareelih_179, Maridalia_26, Marietta_19, MerCougar_19, NadineRae_17, NatB6_19, Neobush_27, NosilaM_21, NovumRegina_19, Nymphadora_25, Ohgeesy_25, Outis_19, PantheRoc_26, Patio_21, Pemberton_20, Phomeo_18, Pleakley_25, Polly_24, Pupper_177, Puppies_35, RedRaider_25, SCentae_176, Scuba_25, Sienna_96, Sixama_183, Skog_9, Skysand_20, StarStruck_19, Sukkupi_19, SuperSulley_20, Suscepit_27, SushiChef_27, Suzy_95, Tayonia_27, Terapin_96, ThankyouJordi_24, TimTam_25, Tracker_19, Trine_36, Trumpet_27, Turuncu_22, Upyo_37, WelcomeAyanna_24, Wheezy_19, WhoseManz_19, Widow_36, WorMMAs_37, Yeezy_27, Yndexa_19, Zameen_27, Zirinka_25,

Summary by start number:

Start 11:

- Found in 1 of 139 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sixama_183 (DS),

Start 13:

- Found in 1 of 139 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: E3_gp85 (singleton),

Start 14:

- Found in 30 of 139 (21.6%) of genes in pham
- Manual Annotations of this start: 3 of 128
- Called 10.0% of time when present
- Phage (with cluster) where this start called: BiPauneto_20 (CR4), Sukkupi_19 (CR4), Yndexa_19 (CR4),

Start 22:

- Found in 5 of 139 (3.6%) of genes in pham
- Manual Annotations of this start: 3 of 128

- Called 60.0% of time when present
- Phage (with cluster) where this start called: Fury_25 (CR5), HomeFry_22 (CR5), Scuba_25 (CR5),

Start 26:

- Found in 28 of 139 (20.1%) of genes in pham
- Manual Annotations of this start: 22 of 128
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Arti_19 (CR2), Commandaria_20 (CR2), Dalilpop_23 (CR1), Emianna_19 (CR2), Ennea_24 (CR3), Flapper_22 (CR1), Float294_20 (CR3), Foxboro_20 (CR2), GMA2_76 (DS), GRU1_9 (CR1), GTE5_9 (CR1), GTE8_7 (CR2), GrootJr_21 (CR2), Jifall16_18 (CR2), KidneyBean_19 (CR2), Kurt_19 (CR2), Lollipop1437_23 (CR3), NatB6_19 (CR2), NovumRegina_19 (CR2), Patio_21 (CR3), Phomeo_18 (CR2), RedRaider_25 (CR3), Skysand_20 (CR3), Tracker_19 (CR2), Turuncu_22 (CR1), Wheezy_19 (CR2),

Start 27:

- Found in 10 of 139 (7.2%) of genes in pham
- Manual Annotations of this start: 8 of 128
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Bonum_21 (CR2), Buggaboo_20 (CR2), Kabluna_21 (CR2), MerCougar_19 (CR2), NosilaM_21 (CR2), Outis_19 (CR2), StarStruck_19 (CR2), SuperSulley_20 (CR2),

Start 28:

- Found in 5 of 139 (3.6%) of genes in pham
- Manual Annotations of this start: 3 of 128
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Marietta_19 (CR4), Pemberton_20 (CR4), WhoseManz_19 (CR4),

Start 30:

- Found in 3 of 139 (2.2%) of genes in pham
- Manual Annotations of this start: 3 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HubbaBubba_15 (CR4), IDyn_18 (CR4), NadineRae_17 (CR4),

Start 31:

- Found in 6 of 139 (4.3%) of genes in pham
- Manual Annotations of this start: 5 of 128
- Called 83.3% of time when present
- Phage (with cluster) where this start called: BlueNGold_178 (DS), Boopy_181 (DS), Forza_182 (DS), Mareelih_179 (DS), Sienna_96 (DG1),

Start 33:

- Found in 17 of 139 (12.2%) of genes in pham
- Manual Annotations of this start: 16 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beyoncage_95 (DG1), BiteSize_95 (DG1), CherryTomatoes_180 (DO), Djokovic_95 (DG1), LilyPad_89 (DG1), LittleFella_91 (DG2), Madi_94 (DG1), Pupper_177 (DO), Puppies_35 (CD), SCentae_176 (DO), Skog_9 (DO), Suzy_95 (DG1), Terapin_96 (DG1), Trine_36

(CD), Upyo_37 (CD), Widow_36 (CD), WorMMAs_37 (UNK),

Start 43:

- Found in 16 of 139 (11.5%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Hugley_25 (CZ1), SushiChef_27 (CZ),

Start 48:

- Found in 17 of 139 (12.2%) of genes in pham
- Manual Annotations of this start: 12 of 128
- Called 70.6% of time when present
- Phage (with cluster) where this start called: BatStarr_25 (CZ1), Bialota_25 (CZ1), Bosnia_25 (CZ1), Eviarto_25 (CZ1), Herod_25 (CZ1), Madeline_25 (CZ1), Malibo_27 (DW), Ohgeesy_25 (CZ), ThankyouJordi_24 (CZ1), TimTam_25 (CZ1), WelcomeAyanna_24 (CZ1), Zirinka_25 (CZ1),

Start 49:

- Found in 18 of 139 (12.9%) of genes in pham
- Manual Annotations of this start: 17 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana_26 (CZ1), AlumE_26 (CZ1), Angelique_28 (CY1), Antonio_27 (CZ1), BaxterFox_25 (CZ3), BoyNamedSue_26 (CZ1), Dillpickles_28 (CZ1), Eudoria_27 (CZ1), Kita_27 (CZ1), Manasvini_27 (CZ1), Maridalia_26 (CZ1), Neobush_27 (CZ1), PantheRoc_26 (CZ3), Suscepit_27 (CZ1), Tayonia_27 (CZ1), Trumpet_27 (CZ1), Yeezy_27 (CZ3), Zameen_27 (CZ1),

Start 50:

- Found in 3 of 139 (2.2%) of genes in pham
- Manual Annotations of this start: 3 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BeeGee_26 (CY5), Cashline_26 (CY6), Confidence_26 (CY1),

Start 53:

- Found in 1 of 139 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ecliptus_31 (DN),

Start 54:

- Found in 29 of 139 (20.9%) of genes in pham
- Manual Annotations of this start: 28 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot_27 (DN3), Asapag_28 (DN1), BENTherdunthat_28 (DN1), BearBQ_27 (DN), Birdsong_27 (DN), BotCity_28 (DN), Budski_28 (DN), CheeseTouch_28 (DN1), Crater_26 (DN3), Frickyeh_27 (DN1), Getalong_29 (DN1), Holliday_28 (DN1), Horus_28 (DN1), Kamaru_28 (DN1), Kenna_27 (DN1), Kuwabara_27 (DN4), Leroy_28 (DN1), LitninMcQueen_27 (DN1), LonelyBoi_27 (CY7), Lutum_28 (DN1), MortyNRick_27 (DN), ODay_32 (DN), Periwinkle_30 (DN1), Phabuloso_27 (DN1), Phistory_29 (DN1), ShawBrad_28 (DN1), Spooky_28 (DN2), Squiddly_30 (DN2), Whitney_29 (DN1),

Start 57:

- Found in 65 of 139 (46.8%) of genes in pham
- Manual Annotations of this start: 2 of 128
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Nymphadora_25 (CZ1), Polly_24 (CZ1),

Start 60:

- Found in 32 of 139 (23.0%) of genes in pham
- Manual Annotations of this start: 1 of 128
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Pleakley_25 (CR5),

Start 65:

- Found in 68 of 139 (48.9%) of genes in pham
- No Manual Annotations of this start.
- Called 1.5% of time when present
- Phage (with cluster) where this start called: Madavieve_25 (CZ1),

Summary by clusters:

There are 25 clusters represented in this pham: DN, DO, singleton, CZ3, CZ1, DW, DS, DN4, DN1, DN3, DN2, CY1, CY7, CY6, CY5, CD, DG2, CZ, DG1, UNK, CR2, CR3, CR1, CR4, CR5,

Info for manual annotations of cluster CD:

- Start number 33 was manually annotated 4 times for cluster CD.

Info for manual annotations of cluster CR1:

- Start number 26 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 26 was manually annotated 13 times for cluster CR2.
- Start number 27 was manually annotated 8 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 26 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 14 was manually annotated 3 times for cluster CR4.
- Start number 28 was manually annotated 3 times for cluster CR4.
- Start number 30 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 22 was manually annotated 3 times for cluster CR5.
- Start number 60 was manually annotated 1 time for cluster CR5.

Info for manual annotations of cluster CY1:

- Start number 49 was manually annotated 1 time for cluster CY1.
- Start number 50 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CY5:

- Start number 50 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:

- Start number 50 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 54 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:

- Start number 48 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 48 was manually annotated 10 times for cluster CZ1.
- Start number 49 was manually annotated 13 times for cluster CZ1.
- Start number 57 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ3:

- Start number 49 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster DG1:

- Start number 31 was manually annotated 1 time for cluster DG1.
- Start number 33 was manually annotated 7 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 33 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DN:

- Start number 53 was manually annotated 1 time for cluster DN.
- Start number 54 was manually annotated 6 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 54 was manually annotated 16 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 54 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 54 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 54 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DO:

- Start number 33 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DS:

- Start number 11 was manually annotated 1 time for cluster DS.
- Start number 31 was manually annotated 4 times for cluster DS.

Info for manual annotations of cluster DW:

- Start number 48 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: Agueybana_26 Start: 22183, Stop: 22803, Start Num: 49

Candidate Starts for Agueybana_26:

(1, 21808), (9, 21979), (10, 21982), (18, 22063), (21, 22084), (Start: 49 @22183 has 17 MA's), (Start: 57 @22192 has 2 MA's), (65, 22237), (84, 22318), (91, 22372), (97, 22417), (103, 22453), (117, 22504), (126, 22552), (137, 22615), (144, 22645), (158, 22696), (183, 22774),

Gene: AlumE_26 Start: 22182, Stop: 22802, Start Num: 49

Candidate Starts for AlumE_26:

(1, 21807), (9, 21978), (10, 21981), (18, 22062), (21, 22083), (Start: 49 @22182 has 17 MA's), (Start: 57 @22191 has 2 MA's), (65, 22236), (84, 22317), (91, 22371), (97, 22416), (103, 22452), (117, 22503), (126, 22551), (137, 22614), (144, 22644), (158, 22695), (183, 22773),

Gene: Angelique_28 Start: 22797, Stop: 23417, Start Num: 49

Candidate Starts for Angelique_28:

(38, 22740), (Start: 49 @22797 has 17 MA's), (65, 22848), (84, 22929), (87, 22950), (97, 23028), (103, 23064), (113, 23100), (117, 23115), (126, 23163), (137, 23226), (158, 23307), (183, 23385), (185, 23394), (187, 23397),

Gene: Antonio_27 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Antonio_27:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: Apricot_27 Start: 21059, Stop: 21682, Start Num: 54

Candidate Starts for Apricot_27:

(2, 20684), (3, 20741), (5, 20786), (9, 20840), (10, 20843), (Start: 14 @20879 has 3 MA's), (18, 20924), (19, 20927), (Start: 54 @21059 has 28 MA's), (Start: 57 @21065 has 2 MA's), (62, 21095), (65, 21110), (79, 21170), (93, 21251), (97, 21290), (113, 21362), (126, 21425), (135, 21470), (137, 21488), (142, 21509), (144, 21518), (183, 21650), (185, 21659), (190, 21671),

Gene: Arti_19 Start: 9412, Stop: 10137, Start Num: 26

Candidate Starts for Arti_19:

(Start: 26 @9412 has 22 MA's), (40, 9436), (44, 9469), (61, 9472), (68, 9508), (72, 9523), (80, 9565), (101, 9712), (141, 9904), (164, 10006), (172, 10036), (175, 10057), (179, 10072), (192, 10132),

Gene: Asapag_28 Start: 21501, Stop: 22124, Start Num: 54

Candidate Starts for Asapag_28:

(2, 21126), (3, 21183), (5, 21228), (9, 21282), (10, 21285), (Start: 14 @21321 has 3 MA's), (18, 21366), (19, 21369), (Start: 54 @21501 has 28 MA's), (Start: 57 @21507 has 2 MA's), (62, 21537), (65, 21552), (79, 21612), (91, 21687), (97, 21732), (103, 21768), (113, 21804), (126, 21867), (135, 21912), (137, 21930), (142, 21951), (146, 21972), (183, 22092), (185, 22101), (190, 22113),

Gene: BENtherdunthat_28 Start: 21498, Stop: 22121, Start Num: 54

Candidate Starts for BENtherdunthat_28:

(2, 21123), (3, 21180), (5, 21225), (9, 21279), (10, 21282), (Start: 14 @21318 has 3 MA's), (18, 21363), (19, 21366), (Start: 54 @21498 has 28 MA's), (Start: 57 @21504 has 2 MA's), (62, 21534), (65, 21549), (66, 21552), (84, 21630), (93, 21690), (97, 21729), (103, 21765), (113, 21801), (126, 21864), (137, 21927), (142, 21948), (144, 21957), (146, 21969), (154, 22002), (183, 22089), (185, 22098),

Gene: BatStarr_25 Start: 22309, Stop: 22926, Start Num: 48

Candidate Starts for BatStarr_25:

(21, 22210), (36, 22249), (43, 22282), (Start: 48 @22309 has 12 MA's), (Start: 57 @22318 has 2 MA's), (65, 22360), (68, 22372), (79, 22420), (84, 22441), (87, 22462), (91, 22495), (92, 22498), (97, 22540), (103, 22576), (117, 22627), (126, 22675), (137, 22738), (144, 22768), (158, 22819), (183, 22897),

Gene: BaxterFox_25 Start: 21503, Stop: 22126, Start Num: 49

Candidate Starts for BaxterFox_25:

(9, 21299), (10, 21302), (18, 21383), (21, 21404), (Start: 49 @21503 has 17 MA's), (Start: 57 @21512 has 2 MA's), (65, 21557), (68, 21569), (79, 21617), (84, 21638), (91, 21692), (97, 21737), (103, 21773), (104, 21776), (117, 21824), (126, 21872), (137, 21935), (144, 21965), (158, 22019), (183, 22097),

Gene: BearBQ_27 Start: 22338, Stop: 22961, Start Num: 54

Candidate Starts for BearBQ_27:

(2, 21963), (3, 22020), (5, 22065), (9, 22119), (10, 22122), (Start: 14 @22158 has 3 MA's), (18, 22203), (19, 22206), (Start: 54 @22338 has 28 MA's), (Start: 57 @22344 has 2 MA's), (62, 22374), (65, 22389), (79, 22449), (91, 22524), (97, 22569), (103, 22605), (113, 22641), (126, 22704), (137, 22767), (142, 22788), (144, 22797), (159, 22854), (183, 22929), (185, 22938),

Gene: BeeGee_26 Start: 21791, Stop: 22411, Start Num: 50

Candidate Starts for BeeGee_26:

(Start: 50 @21791 has 3 MA's), (Start: 57 @21797 has 2 MA's), (65, 21842), (74, 21878), (84, 21923), (91, 21977), (97, 22022), (113, 22094), (126, 22157), (137, 22220), (158, 22301), (183, 22379), (185, 22388), (187, 22391),

Gene: Beyoncage_95 Start: 65472, Stop: 66188, Start Num: 33

Candidate Starts for Beyoncage_95:

(Start: 33 @65472 has 16 MA's), (96, 65754), (102, 65799), (129, 65910), (150, 66027), (151, 66033), (160, 66066), (165, 66075), (168, 66096), (173, 66114), (181, 66153), (182, 66156), (189, 66177),

Gene: BiPauneto_20 Start: 7795, Stop: 8589, Start Num: 14

Candidate Starts for BiPauneto_20:

(Start: 14 @7795 has 3 MA's), (Start: 60 @7909 has 1 MA's), (61, 7912), (62, 7924), (80, 8005), (101, 8155), (108, 8179), (117, 8212), (141, 8344), (168, 8470), (175, 8506), (190, 8560),

Gene: Bialota_25 Start: 22321, Stop: 22938, Start Num: 48

Candidate Starts for Bialota_25:

(21, 22222), (36, 22261), (43, 22294), (Start: 48 @22321 has 12 MA's), (Start: 57 @22330 has 2 MA's), (65, 22372), (68, 22384), (79, 22432), (84, 22453), (87, 22474), (91, 22507), (97, 22552), (103, 22588), (117, 22639), (137, 22750), (144, 22780), (158, 22831), (183, 22909),

Gene: Birdsong_27 Start: 21231, Stop: 21854, Start Num: 54

Candidate Starts for Birdsong_27:

(2, 20856), (3, 20913), (5, 20958), (9, 21012), (10, 21015), (Start: 14 @21051 has 3 MA's), (18, 21096), (19, 21099), (Start: 54 @21231 has 28 MA's), (Start: 57 @21237 has 2 MA's), (62, 21267), (65, 21282), (79, 21342), (91, 21417), (97, 21462), (103, 21498), (113, 21534), (126, 21597), (137, 21660), (142, 21681), (144, 21690), (159, 21747), (183, 21822), (185, 21831),

Gene: BiteSize_95 Start: 65558, Stop: 66274, Start Num: 33

Candidate Starts for BiteSize_95:

(Start: 33 @65558 has 16 MA's), (96, 65840), (102, 65885), (129, 65996), (150, 66113), (151, 66119), (160, 66152), (165, 66161), (168, 66182), (173, 66200), (181, 66239), (182, 66242), (189, 66263),

Gene: BlueNGold_178 Start: 105490, Stop: 104774, Start Num: 31

Candidate Starts for BlueNGold_178:

(Start: 31 @105490 has 5 MA's), (46, 105433), (90, 105250), (98, 105190), (116, 105121), (120, 105103), (133, 105028), (135, 105016), (136, 105001), (137, 104998), (142, 104977), (143, 104971), (146, 104956), (168, 104869), (173, 104851), (176, 104833), (181, 104809), (189, 104785),

Gene: Bonum_21 Start: 9448, Stop: 10239, Start Num: 27

Candidate Starts for Bonum_21:

(Start: 27 @9448 has 8 MA's), (42, 9493), (55, 9556), (59, 9568), (Start: 60 @9574 has 1 MA's), (62, 9589), (68, 9613), (70, 9622), (80, 9670), (87, 9706), (101, 9817), (107, 9838), (114, 9859), (172, 10144), (175, 10165), (177, 10174), (179, 10180), (188, 10213),

Gene: Boopy_181 Start: 105501, Stop: 104785, Start Num: 31

Candidate Starts for Boopy_181:

(Start: 31 @105501 has 5 MA's), (46, 105444), (90, 105261), (98, 105201), (116, 105132), (120, 105114), (133, 105039), (135, 105027), (136, 105012), (137, 105009), (142, 104988), (143, 104982), (146, 104967), (168, 104880), (173, 104862), (176, 104844), (181, 104820), (189, 104796),

Gene: Bosnia_25 Start: 22309, Stop: 22926, Start Num: 48

Candidate Starts for Bosnia_25:

(21, 22210), (36, 22249), (43, 22282), (Start: 48 @22309 has 12 MA's), (Start: 57 @22318 has 2 MA's), (65, 22360), (68, 22372), (79, 22420), (84, 22441), (87, 22462), (91, 22495), (92, 22498), (97, 22540), (103, 22576), (117, 22627), (126, 22675), (137, 22738), (144, 22768), (158, 22819), (183, 22897),

Gene: BotCity_28 Start: 21499, Stop: 22122, Start Num: 54

Candidate Starts for BotCity_28:

(2, 21124), (3, 21181), (5, 21226), (9, 21280), (10, 21283), (Start: 14 @21319 has 3 MA's), (18, 21364), (19, 21367), (Start: 54 @21499 has 28 MA's), (Start: 57 @21505 has 2 MA's), (62, 21535), (65, 21550), (66, 21553), (84, 21631), (93, 21691), (97, 21730), (103, 21766), (113, 21802), (126, 21865), (137, 21928), (142, 21949), (144, 21958), (146, 21970), (154, 22003), (183, 22090), (185, 22099),

Gene: BoyNamedSue_26 Start: 22182, Stop: 22802, Start Num: 49

Candidate Starts for BoyNamedSue_26:

(1, 21807), (9, 21978), (10, 21981), (18, 22062), (21, 22083), (Start: 49 @22182 has 17 MA's), (Start: 57 @22191 has 2 MA's), (65, 22236), (84, 22317), (91, 22371), (97, 22416), (103, 22452), (117, 22503), (126, 22551), (137, 22614), (144, 22644), (158, 22695), (183, 22773),

Gene: Budski_28 Start: 21606, Stop: 22229, Start Num: 54

Candidate Starts for Budski_28:

(2, 21231), (3, 21288), (5, 21333), (9, 21387), (10, 21390), (Start: 14 @21426 has 3 MA's), (18, 21471), (19, 21474), (Start: 54 @21606 has 28 MA's), (Start: 57 @21612 has 2 MA's), (62, 21642), (65, 21657), (79, 21717), (93, 21798), (97, 21837), (113, 21909), (126, 21972), (135, 22017), (137, 22035), (142, 22056), (144, 22065), (183, 22197), (185, 22206), (190, 22218),

Gene: Buggaboo_20 Start: 8964, Stop: 9755, Start Num: 27

Candidate Starts for Buggaboo_20:

(Start: 27 @8964 has 8 MA's), (34, 8973), (42, 9009), (55, 9072), (Start: 60 @9090 has 1 MA's), (62, 9105), (68, 9129), (70, 9138), (80, 9186), (87, 9222), (101, 9333), (114, 9375), (172, 9660), (175, 9681), (177, 9690), (179, 9696), (188, 9729),

Gene: Cashline_26 Start: 21658, Stop: 22278, Start Num: 50

Candidate Starts for Cashline_26:

(Start: 50 @21658 has 3 MA's), (Start: 57 @21664 has 2 MA's), (62, 21694), (65, 21709), (74, 21745), (84, 21790), (91, 21844), (97, 21889), (113, 21961), (117, 21976), (126, 22024), (131, 22045), (137,

22087), (158, 22168), (183, 22246), (185, 22255), (187, 22258),

Gene: CheeseTouch_28 Start: 21492, Stop: 22115, Start Num: 54

Candidate Starts for CheeseTouch_28:

(2, 21117), (3, 21174), (5, 21219), (9, 21273), (10, 21276), (Start: 14 @21312 has 3 MA's), (18, 21357), (19, 21360), (Start: 54 @21492 has 28 MA's), (Start: 57 @21498 has 2 MA's), (62, 21528), (65, 21543), (79, 21603), (93, 21684), (97, 21723), (113, 21795), (126, 21858), (135, 21903), (137, 21921), (142, 21942), (144, 21951), (183, 22083), (185, 22092), (190, 22104),

Gene: CherryTomatoes_180 Start: 130016, Stop: 130726, Start Num: 33

Candidate Starts for CherryTomatoes_180:

(Start: 33 @130016 has 16 MA's), (37, 130028), (45, 130067), (63, 130118), (81, 130202), (89, 130235), (90, 130253), (111, 130358), (112, 130361), (129, 130451), (133, 130475), (143, 130532), (155, 130580), (166, 130619), (181, 130691),

Gene: Commandaria_20 Start: 9068, Stop: 9796, Start Num: 26

Candidate Starts for Commandaria_20:

(Start: 26 @9068 has 22 MA's), (44, 9125), (66, 9158), (72, 9179), (80, 9221), (131, 9497), (139, 9545), (142, 9560), (175, 9707), (184, 9749),

Gene: Confidence_26 Start: 21821, Stop: 22441, Start Num: 50

Candidate Starts for Confidence_26:

(Start: 50 @21821 has 3 MA's), (Start: 57 @21827 has 2 MA's), (65, 21872), (74, 21908), (84, 21953), (91, 22007), (97, 22052), (113, 22124), (126, 22187), (137, 22250), (158, 22331), (183, 22409), (185, 22418), (187, 22421),

Gene: Crater_26 Start: 21059, Stop: 21682, Start Num: 54

Candidate Starts for Crater_26:

(2, 20684), (3, 20741), (5, 20786), (9, 20840), (10, 20843), (Start: 14 @20879 has 3 MA's), (18, 20924), (19, 20927), (Start: 54 @21059 has 28 MA's), (Start: 57 @21065 has 2 MA's), (62, 21095), (65, 21110), (79, 21170), (93, 21251), (97, 21290), (113, 21362), (126, 21425), (135, 21470), (137, 21488), (142, 21509), (144, 21518), (183, 21650), (185, 21659), (190, 21671),

Gene: Dalilpop_23 Start: 10164, Stop: 10931, Start Num: 26

Candidate Starts for Dalilpop_23:

(Start: 26 @10164 has 22 MA's), (35, 10179), (47, 10233), (Start: 60 @10269 has 1 MA's), (61, 10272), (72, 10323), (80, 10365), (123, 10593), (129, 10629), (147, 10731), (174, 10842), (175, 10848), (188, 10896), (190, 10902),

Gene: Dillpickles_28 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Dillpickles_28:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: Djokovic_95 Start: 65471, Stop: 66187, Start Num: 33

Candidate Starts for Djokovic_95:

(Start: 33 @65471 has 16 MA's), (96, 65753), (102, 65798), (129, 65909), (150, 66026), (151, 66032), (160, 66065), (165, 66074), (168, 66095), (173, 66113), (181, 66152), (182, 66155), (189, 66176),

Gene: E3_gp85 Start: 47322, Stop: 46429, Start Num: 13

Candidate Starts for E3_gp85:

(13, 47322), (15, 47307), (16, 47298), (Start: 22 @47247 has 3 MA's), (Start: 28 @47229 has 3 MA's), (35, 47214), (41, 47193), (69, 47088), (71, 47079), (77, 47052), (83, 47022), (86, 47007), (87, 46998), (90, 46974), (93, 46962), (109, 46857), (115, 46830), (119, 46815), (121, 46803), (125, 46785), (134, 46728), (145, 46668), (162, 46587), (178, 46500), (186, 46470), (191, 46449),

Gene: Ecliptus_31 Start: 23080, Stop: 23703, Start Num: 53

Candidate Starts for Ecliptus_31:

(Start: 53 @23080 has 1 MA's), (Start: 57 @23086 has 2 MA's), (62, 23116), (65, 23131), (97, 23311), (113, 23383), (124, 23434), (126, 23446), (135, 23491), (137, 23509), (142, 23530), (144, 23539), (183, 23671),

Gene: Emianna_19 Start: 9384, Stop: 10109, Start Num: 26

Candidate Starts for Emianna_19:

(Start: 26 @9384 has 22 MA's), (40, 9408), (44, 9441), (61, 9444), (68, 9480), (72, 9495), (80, 9537), (101, 9684), (141, 9876), (164, 9978), (172, 10008), (175, 10029), (179, 10044), (192, 10104),

Gene: Ennea_24 Start: 10528, Stop: 11301, Start Num: 26

Candidate Starts for Ennea_24:

(Start: 26 @10528 has 22 MA's), (Start: 60 @10636 has 1 MA's), (61, 10639), (72, 10690), (80, 10732), (97, 10846), (107, 10900), (175, 11221), (190, 11275),

Gene: Eudoria_27 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Eudoria_27:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: Eviarto_25 Start: 22309, Stop: 22926, Start Num: 48

Candidate Starts for Eviarto_25:

(21, 22210), (36, 22249), (43, 22282), (Start: 48 @22309 has 12 MA's), (Start: 57 @22318 has 2 MA's), (65, 22360), (68, 22372), (79, 22420), (84, 22441), (87, 22462), (91, 22495), (92, 22498), (97, 22540), (103, 22576), (117, 22627), (126, 22675), (137, 22738), (144, 22768), (158, 22819), (183, 22897),

Gene: Flapper_22 Start: 9234, Stop: 10004, Start Num: 26

Candidate Starts for Flapper_22:

(Start: 26 @9234 has 22 MA's), (35, 9252), (Start: 60 @9342 has 1 MA's), (72, 9396), (80, 9438), (123, 9666), (128, 9699), (129, 9702), (175, 9921), (190, 9975),

Gene: Float294_20 Start: 9077, Stop: 9850, Start Num: 26

Candidate Starts for Float294_20:

(Start: 26 @9077 has 22 MA's), (Start: 60 @9185 has 1 MA's), (61, 9188), (72, 9239), (80, 9281), (97, 9395), (107, 9449), (135, 9581), (175, 9770), (190, 9824),

Gene: Forza_182 Start: 105418, Stop: 104702, Start Num: 31

Candidate Starts for Forza_182:

(Start: 31 @105418 has 5 MA's), (46, 105361), (90, 105178), (98, 105118), (116, 105049), (120, 105031), (133, 104956), (135, 104944), (136, 104929), (137, 104926), (142, 104905), (143, 104899), (146, 104884), (168, 104797), (173, 104779), (176, 104761), (181, 104737), (189, 104713),

Gene: Foxboro_20 Start: 9744, Stop: 10469, Start Num: 26

Candidate Starts for Foxboro_20:

(Start: 26 @9744 has 22 MA's), (40, 9768), (44, 9801), (61, 9804), (68, 9840), (72, 9855), (80, 9897), (101, 10044), (141, 10236), (164, 10338), (172, 10368), (175, 10389), (179, 10404), (192, 10464),

Gene: Frickyeah_27 Start: 21264, Stop: 21887, Start Num: 54

Candidate Starts for Frickyeah_27:

(2, 20889), (3, 20946), (5, 20991), (9, 21045), (10, 21048), (Start: 14 @21084 has 3 MA's), (18, 21129), (19, 21132), (Start: 54 @21264 has 28 MA's), (Start: 57 @21270 has 2 MA's), (62, 21300), (65, 21315), (79, 21375), (93, 21456), (97, 21495), (113, 21567), (126, 21630), (135, 21675), (137, 21693), (142, 21714), (144, 21723), (183, 21855), (185, 21864), (190, 21876),

Gene: Fury_25 Start: 9669, Stop: 10463, Start Num: 22

Candidate Starts for Fury_25:

(4, 9471), (Start: 22 @9669 has 3 MA's), (Start: 60 @9798 has 1 MA's), (61, 9801), (72, 9858), (80, 9900), (97, 10014), (99, 10029), (101, 10047), (113, 10083), (127, 10152), (128, 10158), (142, 10236), (144, 10245), (157, 10299), (172, 10359),

Gene: GMA2_76 Start: 77386, Stop: 76664, Start Num: 26

Candidate Starts for GMA2_76:

(Start: 26 @77386 has 22 MA's), (34, 77380), (39, 77371), (62, 77287), (73, 77242), (102, 77065), (129, 76936), (132, 76918), (161, 76777), (170, 76750), (189, 76675),

Gene: GRU1_9 Start: 2330, Stop: 3097, Start Num: 26

Candidate Starts for GRU1_9:

(25, 2327), (Start: 26 @2330 has 22 MA's), (35, 2345), (Start: 60 @2435 has 1 MA's), (61, 2438), (72, 2489), (80, 2531), (93, 2606), (123, 2759), (128, 2792), (129, 2795), (147, 2897), (174, 3008), (175, 3014), (188, 3062), (190, 3068),

Gene: GTE5_9 Start: 2331, Stop: 3101, Start Num: 26

Candidate Starts for GTE5_9:

(Start: 26 @2331 has 22 MA's), (35, 2349), (Start: 60 @2439 has 1 MA's), (72, 2493), (80, 2535), (123, 2763), (128, 2796), (129, 2799), (174, 3012), (175, 3018), (188, 3066), (190, 3072),

Gene: GTE8_7 Start: 2259, Stop: 2990, Start Num: 26

Candidate Starts for GTE8_7:

(Start: 26 @2259 has 22 MA's), (40, 2283), (44, 2316), (61, 2319), (68, 2355), (72, 2370), (80, 2412), (117, 2616), (128, 2676), (141, 2751), (142, 2754), (163, 2853), (164, 2856), (172, 2886), (175, 2907), (179, 2922),

Gene: Getalong_29 Start: 22301, Stop: 22924, Start Num: 54

Candidate Starts for Getalong_29:

(2, 21926), (3, 21983), (5, 22028), (9, 22082), (10, 22085), (Start: 14 @22121 has 3 MA's), (18, 22166), (19, 22169), (Start: 54 @22301 has 28 MA's), (Start: 57 @22307 has 2 MA's), (62, 22337), (65, 22352), (79, 22412), (93, 22493), (97, 22532), (113, 22604), (126, 22667), (135, 22712), (137, 22730), (142, 22751), (144, 22760), (183, 22892), (185, 22901), (190, 22913),

Gene: GrootJr_21 Start: 9807, Stop: 10532, Start Num: 26

Candidate Starts for GrootJr_21:

(Start: 26 @9807 has 22 MA's), (40, 9831), (44, 9864), (61, 9867), (68, 9903), (72, 9918), (80, 9960), (101, 10107), (141, 10299), (164, 10401), (172, 10431), (175, 10452), (179, 10467), (192, 10527),

Gene: Herod_25 Start: 22309, Stop: 22926, Start Num: 48

Candidate Starts for Herod_25:

(21, 22210), (36, 22249), (43, 22282), (Start: 48 @22309 has 12 MA's), (Start: 57 @22318 has 2 MA's), (65, 22360), (68, 22372), (79, 22420), (84, 22441), (87, 22462), (91, 22495), (92, 22498), (97, 22540), (103, 22576), (117, 22627), (126, 22675), (137, 22738), (144, 22768), (158, 22819), (183, 22897),

Gene: Holliday_28 Start: 21606, Stop: 22229, Start Num: 54

Candidate Starts for Holliday_28:

(2, 21231), (3, 21288), (5, 21333), (9, 21387), (10, 21390), (Start: 14 @21426 has 3 MA's), (18, 21471), (19, 21474), (Start: 54 @21606 has 28 MA's), (Start: 57 @21612 has 2 MA's), (62, 21642), (65, 21657), (79, 21717), (93, 21798), (97, 21837), (113, 21909), (126, 21972), (135, 22017), (137, 22035), (142, 22056), (144, 22065), (183, 22197), (185, 22206), (190, 22218),

Gene: HomeFry_22 Start: 8565, Stop: 9368, Start Num: 22

Candidate Starts for HomeFry_22:

(4, 8367), (Start: 22 @8565 has 3 MA's), (51, 8664), (Start: 60 @8694 has 1 MA's), (61, 8697), (67, 8733), (72, 8754), (80, 8796), (97, 8910), (99, 8925), (101, 8943), (117, 8997), (142, 9141), (144, 9150), (153, 9195), (166, 9240), (172, 9264),

Gene: Horus_28 Start: 21523, Stop: 22146, Start Num: 54

Candidate Starts for Horus_28:

(2, 21148), (3, 21205), (5, 21250), (9, 21304), (10, 21307), (Start: 14 @21343 has 3 MA's), (18, 21388), (19, 21391), (Start: 54 @21523 has 28 MA's), (Start: 57 @21529 has 2 MA's), (62, 21559), (65, 21574), (79, 21634), (93, 21715), (97, 21754), (113, 21826), (126, 21889), (135, 21934), (137, 21952), (142, 21973), (144, 21982), (183, 22114), (185, 22123), (190, 22135),

Gene: HubbaBubba_15 Start: 6375, Stop: 7115, Start Num: 30

Candidate Starts for HubbaBubba_15:

(Start: 30 @6375 has 3 MA's), (Start: 60 @6435 has 1 MA's), (61, 6438), (62, 6450), (80, 6531), (108, 6705), (141, 6870), (168, 6996), (175, 7032), (190, 7086),

Gene: Hugley_25 Start: 22282, Stop: 22926, Start Num: 43

Candidate Starts for Hugley_25:

(21, 22210), (36, 22249), (43, 22282), (Start: 48 @22309 has 12 MA's), (Start: 57 @22318 has 2 MA's), (65, 22360), (68, 22372), (79, 22420), (84, 22441), (87, 22462), (91, 22495), (92, 22498), (97, 22540), (103, 22576), (117, 22627), (126, 22675), (137, 22738), (144, 22768), (158, 22819), (183, 22897),

Gene: IDyn_18 Start: 7766, Stop: 8506, Start Num: 30

Candidate Starts for IDyn_18:

(Start: 30 @7766 has 3 MA's), (Start: 60 @7826 has 1 MA's), (61, 7829), (62, 7841), (80, 7922), (101, 8072), (108, 8096), (117, 8129), (135, 8225), (141, 8261), (168, 8387), (175, 8423), (190, 8477),

Gene: Jifall16_18 Start: 8868, Stop: 9593, Start Num: 26

Candidate Starts for Jifall16_18:

(Start: 26 @8868 has 22 MA's), (40, 8892), (44, 8925), (61, 8928), (68, 8964), (72, 8979), (80, 9021), (101, 9168), (141, 9360), (164, 9462), (172, 9492), (175, 9513), (179, 9528), (192, 9588),

Gene: Kabluna_21 Start: 8839, Stop: 9630, Start Num: 27

Candidate Starts for Kabluna_21:

(Start: 27 @8839 has 8 MA's), (42, 8884), (55, 8947), (59, 8959), (Start: 60 @8965 has 1 MA's), (62, 8980), (68, 9004), (70, 9013), (80, 9061), (87, 9097), (101, 9208), (107, 9229), (114, 9250), (172, 9535), (175, 9556), (177, 9565), (179, 9571), (188, 9604),

Gene: Kamaru_28 Start: 21606, Stop: 22229, Start Num: 54

Candidate Starts for Kamaru_28:

(2, 21231), (3, 21288), (5, 21333), (9, 21387), (10, 21390), (Start: 14 @21426 has 3 MA's), (18, 21471), (19, 21474), (Start: 54 @21606 has 28 MA's), (Start: 57 @21612 has 2 MA's), (62, 21642), (65, 21657), (79, 21717), (93, 21798), (97, 21837), (113, 21909), (126, 21972), (135, 22017), (137, 22035),

(142, 22056), (144, 22065), (183, 22197), (185, 22206), (190, 22218),

Gene: Kenna_27 Start: 21499, Stop: 22122, Start Num: 54

Candidate Starts for Kenna_27:

(2, 21124), (3, 21181), (5, 21226), (9, 21280), (10, 21283), (Start: 14 @21319 has 3 MA's), (18, 21364), (19, 21367), (Start: 54 @21499 has 28 MA's), (Start: 57 @21505 has 2 MA's), (62, 21535), (65, 21550), (79, 21610), (91, 21685), (97, 21730), (103, 21766), (113, 21802), (126, 21865), (135, 21910), (137, 21928), (142, 21949), (146, 21970), (183, 22090), (185, 22099), (190, 22111),

Gene: KidneyBean_19 Start: 9147, Stop: 9872, Start Num: 26

Candidate Starts for KidneyBean_19:

(Start: 26 @9147 has 22 MA's), (40, 9171), (44, 9204), (61, 9207), (68, 9243), (72, 9258), (80, 9300), (101, 9447), (141, 9639), (164, 9741), (172, 9771), (175, 9792), (179, 9807), (192, 9867),

Gene: Kita_27 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Kita_27:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: Kurt_19 Start: 9384, Stop: 10109, Start Num: 26

Candidate Starts for Kurt_19:

(Start: 26 @9384 has 22 MA's), (40, 9408), (44, 9441), (61, 9444), (68, 9480), (72, 9495), (80, 9537), (101, 9684), (141, 9876), (164, 9978), (172, 10008), (175, 10029), (179, 10044), (192, 10104),

Gene: Kuwabara_27 Start: 20925, Stop: 21548, Start Num: 54

Candidate Starts for Kuwabara_27:

(2, 20550), (3, 20607), (5, 20652), (9, 20706), (10, 20709), (Start: 14 @20745 has 3 MA's), (18, 20790), (19, 20793), (Start: 54 @20925 has 28 MA's), (Start: 57 @20931 has 2 MA's), (62, 20961), (65, 20976), (79, 21036), (91, 21111), (97, 21156), (103, 21192), (113, 21228), (126, 21291), (137, 21354), (142, 21375), (144, 21384), (159, 21441), (183, 21516), (185, 21525),

Gene: Leroy_28 Start: 21524, Stop: 22147, Start Num: 54

Candidate Starts for Leroy_28:

(2, 21149), (3, 21206), (5, 21251), (9, 21305), (10, 21308), (Start: 14 @21344 has 3 MA's), (18, 21389), (19, 21392), (Start: 54 @21524 has 28 MA's), (Start: 57 @21530 has 2 MA's), (62, 21560), (65, 21575), (79, 21635), (93, 21716), (97, 21755), (113, 21827), (126, 21890), (135, 21935), (137, 21953), (142, 21974), (144, 21983), (183, 22115), (185, 22124), (190, 22136),

Gene: LilyPad_89 Start: 63022, Stop: 63735, Start Num: 33

Candidate Starts for LilyPad_89:

(Start: 33 @63022 has 16 MA's), (96, 63301), (98, 63322), (139, 63517), (151, 63580), (155, 63592), (168, 63643), (181, 63700), (182, 63703), (189, 63724),

Gene: LitninMcQueen_27 Start: 21255, Stop: 21878, Start Num: 54

Candidate Starts for LitninMcQueen_27:

(2, 20880), (3, 20937), (5, 20982), (9, 21036), (10, 21039), (Start: 14 @21075 has 3 MA's), (18, 21120), (19, 21123), (Start: 54 @21255 has 28 MA's), (Start: 57 @21261 has 2 MA's), (62, 21291), (65, 21306), (79, 21366), (97, 21486), (113, 21558), (126, 21621), (135, 21666), (137, 21684), (142, 21705), (144, 21714), (183, 21846), (185, 21855), (190, 21867),

Gene: LittleFella_91 Start: 63267, Stop: 63962, Start Num: 33

Candidate Starts for LittleFella_91:

(23, 63252), (Start: 28 @63258 has 3 MA's), (Start: 33 @63267 has 16 MA's), (37, 63279), (40, 63285), (46, 63321), (Start: 57 @63336 has 2 MA's), (59, 63345), (70, 63402), (81, 63450), (90, 63501), (93, 63513), (100, 63579), (128, 63687), (129, 63690), (137, 63744), (142, 63765), (156, 63825), (165, 63846), (166, 63855), (167, 63864), (169, 63870), (189, 63951),

Gene: Lollipop1437_23 Start: 10516, Stop: 11289, Start Num: 26

Candidate Starts for Lollipop1437_23:

(Start: 26 @10516 has 22 MA's), (Start: 60 @10624 has 1 MA's), (61, 10627), (72, 10678), (80, 10720), (97, 10834), (107, 10888), (175, 11209), (190, 11263),

Gene: LonelyBoi_27 Start: 22523, Stop: 23143, Start Num: 54

Candidate Starts for LonelyBoi_27:

(32, 22436), (Start: 54 @22523 has 28 MA's), (Start: 57 @22529 has 2 MA's), (62, 22559), (65, 22574), (66, 22577), (74, 22610), (84, 22655), (91, 22709), (97, 22754), (113, 22826), (126, 22889), (137, 22952), (158, 23033), (183, 23111), (185, 23120), (187, 23123),

Gene: Lutum_28 Start: 21499, Stop: 22122, Start Num: 54

Candidate Starts for Lutum_28:

(2, 21124), (3, 21181), (5, 21226), (9, 21280), (10, 21283), (Start: 14 @21319 has 3 MA's), (18, 21364), (19, 21367), (Start: 54 @21499 has 28 MA's), (Start: 57 @21505 has 2 MA's), (62, 21535), (65, 21550), (79, 21610), (91, 21685), (97, 21730), (103, 21766), (113, 21802), (126, 21865), (135, 21910), (137, 21928), (142, 21949), (146, 21970), (183, 22090), (185, 22099), (190, 22111),

Gene: Madavieve_25 Start: 22640, Stop: 23206, Start Num: 65

Candidate Starts for Madavieve_25:

(21, 22490), (36, 22529), (43, 22562), (Start: 48 @22589 has 12 MA's), (65, 22640), (68, 22652), (79, 22700), (84, 22721), (87, 22742), (91, 22775), (97, 22820), (103, 22856), (104, 22859), (117, 22907), (137, 23018), (144, 23048), (158, 23099), (183, 23177),

Gene: Madeline_25 Start: 22607, Stop: 23224, Start Num: 48

Candidate Starts for Madeline_25:

(21, 22508), (36, 22547), (43, 22580), (Start: 48 @22607 has 12 MA's), (Start: 57 @22616 has 2 MA's), (65, 22658), (68, 22670), (79, 22718), (84, 22739), (87, 22760), (91, 22793), (97, 22838), (103, 22874), (104, 22877), (117, 22925), (137, 23036), (144, 23066), (158, 23117), (183, 23195),

Gene: Madi_94 Start: 65302, Stop: 66018, Start Num: 33

Candidate Starts for Madi_94:

(Start: 33 @65302 has 16 MA's), (96, 65584), (102, 65629), (129, 65740), (150, 65857), (151, 65863), (160, 65896), (165, 65905), (168, 65926), (173, 65944), (181, 65983), (182, 65986), (189, 66007),

Gene: Malibo_27 Start: 21379, Stop: 21999, Start Num: 48

Candidate Starts for Malibo_27:

(Start: 48 @21379 has 12 MA's), (56, 21385), (65, 21430), (68, 21442), (87, 21532), (91, 21565), (97, 21610), (104, 21649), (117, 21697), (122, 21718), (137, 21808), (144, 21838), (158, 21889), (183, 21967),

Gene: Manasvini_27 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Manasvini_27:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: Mareelih_179 Start: 104936, Stop: 104220, Start Num: 31

Candidate Starts for Mareelih_179:

(Start: 31 @104936 has 5 MA's), (46, 104879), (90, 104696), (98, 104636), (116, 104567), (120, 104549), (133, 104474), (135, 104462), (136, 104447), (137, 104444), (142, 104423), (143, 104417), (146, 104402), (168, 104315), (173, 104297), (176, 104279), (181, 104255), (189, 104231),

Gene: Maridalia_26 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Maridalia_26:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: Marietta_19 Start: 7689, Stop: 8432, Start Num: 28

Candidate Starts for Marietta_19:

(8, 7560), (Start: 26 @7686 has 22 MA's), (Start: 28 @7689 has 3 MA's), (Start: 60 @7752 has 1 MA's), (61, 7755), (62, 7767), (80, 7848), (101, 7998), (108, 8022), (117, 8055), (141, 8187), (166, 8301), (168, 8313), (175, 8349), (190, 8403),

Gene: MerCougar_19 Start: 8841, Stop: 9629, Start Num: 27

Candidate Starts for MerCougar_19:

(Start: 27 @8841 has 8 MA's), (34, 8850), (52, 8940), (Start: 60 @8964 has 1 MA's), (62, 8979), (70, 9012), (80, 9060), (107, 9228), (114, 9249), (175, 9555), (177, 9564), (179, 9570), (180, 9579), (188, 9603),

Gene: MortyNRick_27 Start: 21231, Stop: 21854, Start Num: 54

Candidate Starts for MortyNRick_27:

(2, 20856), (3, 20913), (5, 20958), (9, 21012), (10, 21015), (Start: 14 @21051 has 3 MA's), (18, 21096), (19, 21099), (Start: 54 @21231 has 28 MA's), (Start: 57 @21237 has 2 MA's), (62, 21267), (65, 21282), (79, 21342), (91, 21417), (97, 21462), (103, 21498), (113, 21534), (126, 21597), (137, 21660), (142, 21681), (144, 21690), (159, 21747), (183, 21822), (185, 21831),

Gene: NadineRae_17 Start: 6891, Stop: 7682, Start Num: 30

Candidate Starts for NadineRae_17:

(Start: 30 @6891 has 3 MA's), (Start: 60 @7002 has 1 MA's), (61, 7005), (62, 7017), (80, 7098), (101, 7248), (108, 7272), (117, 7305), (141, 7437), (166, 7551), (168, 7563), (175, 7599), (187, 7644), (190, 7653),

Gene: NatB6_19 Start: 9475, Stop: 10200, Start Num: 26

Candidate Starts for NatB6_19:

(Start: 26 @9475 has 22 MA's), (40, 9499), (44, 9532), (61, 9535), (68, 9571), (72, 9586), (80, 9628), (101, 9775), (141, 9967), (164, 10069), (172, 10099), (175, 10120), (179, 10135), (192, 10195),

Gene: Neobush_27 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Neobush_27:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: NosilaM_21 Start: 9718, Stop: 10509, Start Num: 27

Candidate Starts for NosilaM_21:

(Start: 27 @9718 has 8 MA's), (42, 9763), (55, 9826), (59, 9838), (Start: 60 @9844 has 1 MA's), (62, 9859), (68, 9883), (70, 9892), (80, 9940), (87, 9976), (101, 10087), (107, 10108), (114, 10129), (172, 10414), (175, 10435), (177, 10444), (179, 10450), (188, 10483),

Gene: NovumRegina_19 Start: 9806, Stop: 10531, Start Num: 26

Candidate Starts for NovumRegina_19:

(Start: 26 @9806 has 22 MA's), (40, 9830), (44, 9863), (61, 9866), (68, 9902), (72, 9917), (80, 9959), (101, 10106), (141, 10298), (164, 10400), (172, 10430), (175, 10451), (179, 10466), (192, 10526),

Gene: Nymphadora_25 Start: 22318, Stop: 22926, Start Num: 57

Candidate Starts for Nymphadora_25:

(21, 22210), (36, 22249), (43, 22282), (Start: 48 @22309 has 12 MA's), (Start: 57 @22318 has 2 MA's), (65, 22360), (68, 22372), (79, 22420), (84, 22441), (87, 22462), (91, 22495), (92, 22498), (97, 22540), (103, 22576), (117, 22627), (126, 22675), (137, 22738), (144, 22768), (158, 22819), (183, 22897),

Gene: ODay_32 Start: 23377, Stop: 24000, Start Num: 54

Candidate Starts for ODay_32:

(17, 23236), (20, 23269), (Start: 27 @23290 has 8 MA's), (29, 23293), (Start: 54 @23377 has 28 MA's), (Start: 57 @23383 has 2 MA's), (62, 23413), (65, 23428), (79, 23488), (91, 23563), (97, 23608), (103, 23644), (105, 23650), (113, 23680), (126, 23743), (137, 23806), (142, 23827), (144, 23836), (183, 23968), (185, 23977),

Gene: Ohgeesy_25 Start: 21932, Stop: 22549, Start Num: 48

Candidate Starts for Ohgeesy_25:

(21, 21833), (36, 21872), (43, 21905), (Start: 48 @21932 has 12 MA's), (65, 21983), (68, 21995), (79, 22043), (84, 22064), (87, 22085), (91, 22118), (97, 22163), (103, 22199), (104, 22202), (117, 22250), (137, 22361), (144, 22391), (158, 22442), (183, 22520),

Gene: Outis_19 Start: 8535, Stop: 9323, Start Num: 27

Candidate Starts for Outis_19:

(Start: 27 @8535 has 8 MA's), (34, 8544), (52, 8634), (Start: 60 @8658 has 1 MA's), (62, 8673), (70, 8706), (80, 8754), (107, 8922), (114, 8943), (175, 9249), (177, 9258), (179, 9264), (180, 9273), (188, 9297),

Gene: PantheRoc_26 Start: 21501, Stop: 22121, Start Num: 49

Candidate Starts for PantheRoc_26:

(1, 21126), (9, 21297), (10, 21300), (18, 21381), (21, 21402), (Start: 49 @21501 has 17 MA's), (Start: 57 @21510 has 2 MA's), (65, 21555), (84, 21636), (91, 21690), (97, 21735), (103, 21771), (117, 21822), (126, 21870), (137, 21933), (144, 21963), (158, 22014), (183, 22092),

Gene: Patio_21 Start: 9753, Stop: 10526, Start Num: 26

Candidate Starts for Patio_21:

(Start: 26 @9753 has 22 MA's), (Start: 60 @9861 has 1 MA's), (61, 9864), (72, 9915), (80, 9957), (107, 10125), (175, 10446), (190, 10500),

Gene: Pemberton_20 Start: 7657, Stop: 8400, Start Num: 28

Candidate Starts for Pemberton_20:

(8, 7528), (Start: 28 @7657 has 3 MA's), (Start: 60 @7720 has 1 MA's), (61, 7723), (62, 7735), (80, 7816), (101, 7966), (108, 7990), (117, 8023), (135, 8119), (141, 8155), (168, 8281), (175, 8317), (190, 8371),

Gene: Periwinkle_30 Start: 21968, Stop: 22591, Start Num: 54

Candidate Starts for Periwinkle_30:

(2, 21593), (3, 21650), (5, 21695), (9, 21749), (10, 21752), (Start: 14 @21788 has 3 MA's), (18, 21833), (19, 21836), (Start: 54 @21968 has 28 MA's), (Start: 57 @21974 has 2 MA's), (62, 22004), (65, 22019), (79, 22079), (84, 22100), (93, 22160), (97, 22199), (113, 22271), (126, 22334), (135, 22379), (137, 22397), (142, 22418), (144, 22427), (183, 22559), (185, 22568), (190, 22580),

Gene: Phabuloso_27 Start: 21255, Stop: 21878, Start Num: 54

Candidate Starts for Phabuloso_27:

(2, 20880), (3, 20937), (5, 20982), (9, 21036), (10, 21039), (Start: 14 @21075 has 3 MA's), (18, 21120), (19, 21123), (Start: 54 @21255 has 28 MA's), (Start: 57 @21261 has 2 MA's), (62, 21291), (65, 21306), (79, 21366), (93, 21447), (97, 21486), (113, 21558), (126, 21621), (135, 21666), (137, 21684), (142, 21705), (144, 21714), (183, 21846), (185, 21855), (190, 21867),

Gene: Phistory_29 Start: 22289, Stop: 22912, Start Num: 54

Candidate Starts for Phistory_29:

(2, 21914), (3, 21971), (5, 22016), (9, 22070), (10, 22073), (Start: 14 @22109 has 3 MA's), (18, 22154), (19, 22157), (Start: 54 @22289 has 28 MA's), (Start: 57 @22295 has 2 MA's), (62, 22325), (65, 22340), (79, 22400), (93, 22481), (97, 22520), (113, 22592), (126, 22655), (135, 22700), (137, 22718), (142, 22739), (144, 22748), (183, 22880), (185, 22889), (190, 22901),

Gene: Phomeo_18 Start: 9034, Stop: 9759, Start Num: 26

Candidate Starts for Phomeo_18:

(Start: 26 @9034 has 22 MA's), (40, 9058), (44, 9091), (61, 9094), (68, 9130), (72, 9145), (80, 9187), (88, 9226), (101, 9334), (141, 9526), (164, 9628), (172, 9658), (175, 9679), (179, 9694), (192, 9754),

Gene: Pleakley_25 Start: 9799, Stop: 10464, Start Num: 60

Candidate Starts for Pleakley_25:

(Start: 60 @9799 has 1 MA's), (61, 9802), (72, 9859), (80, 9901), (97, 10015), (99, 10030), (101, 10048), (113, 10084), (127, 10153), (128, 10159), (142, 10237), (144, 10246), (157, 10300), (172, 10360),

Gene: Polly_24 Start: 21758, Stop: 22366, Start Num: 57

Candidate Starts for Polly_24:

(21, 21650), (36, 21689), (43, 21722), (Start: 48 @21749 has 12 MA's), (Start: 57 @21758 has 2 MA's), (65, 21800), (68, 21812), (79, 21860), (84, 21881), (87, 21902), (91, 21935), (97, 21980), (104, 22019), (117, 22067), (126, 22115), (137, 22178), (158, 22259), (175, 22310), (183, 22337),

Gene: Pupper_177 Start: 129600, Stop: 130310, Start Num: 33

Candidate Starts for Pupper_177:

(Start: 33 @129600 has 16 MA's), (37, 129612), (45, 129651), (63, 129702), (81, 129786), (89, 129819), (90, 129837), (111, 129942), (112, 129945), (129, 130035), (133, 130059), (143, 130116), (155, 130164), (166, 130203), (181, 130275),

Gene: Puppies_35 Start: 26921, Stop: 27625, Start Num: 33

Candidate Starts for Puppies_35:

(24, 26903), (Start: 33 @26921 has 16 MA's), (37, 26933), (Start: 57 @26987 has 2 MA's), (62, 27017), (78, 27086), (82, 27104), (106, 27239), (133, 27365), (138, 27398), (142, 27416), (148, 27449), (171, 27527), (181, 27578),

Gene: RedRaider_25 Start: 10628, Stop: 11401, Start Num: 26

Candidate Starts for RedRaider_25:

(Start: 26 @10628 has 22 MA's), (Start: 60 @10736 has 1 MA's), (61, 10739), (80, 10832), (107, 11000), (135, 11132), (153, 11225), (175, 11321), (190, 11375),

Gene: SCentae_176 Start: 129792, Stop: 130502, Start Num: 33

Candidate Starts for SCentae_176:

(Start: 33 @129792 has 16 MA's), (37, 129804), (45, 129843), (63, 129894), (81, 129978), (89, 130011), (90, 130029), (111, 130134), (112, 130137), (129, 130227), (133, 130251), (143, 130308),

(155, 130356), (166, 130395), (181, 130467),

Gene: Scuba_25 Start: 9756, Stop: 10550, Start Num: 22

Candidate Starts for Scuba_25:

(Start: 22 @9756 has 3 MA's), (Start: 60 @9885 has 1 MA's), (61, 9888), (72, 9945), (80, 9987), (97, 10101), (99, 10116), (101, 10134), (113, 10170), (127, 10239), (128, 10245), (142, 10323), (144, 10332), (157, 10386), (172, 10446),

Gene: ShawBrad_28 Start: 21511, Stop: 22134, Start Num: 54

Candidate Starts for ShawBrad_28:

(2, 21136), (3, 21193), (5, 21238), (9, 21292), (10, 21295), (Start: 14 @21331 has 3 MA's), (18, 21376), (19, 21379), (Start: 54 @21511 has 28 MA's), (Start: 57 @21517 has 2 MA's), (62, 21547), (65, 21562), (93, 21703), (97, 21742), (113, 21814), (126, 21877), (135, 21922), (137, 21940), (142, 21961), (144, 21970), (183, 22102), (185, 22111), (190, 22123),

Gene: Sienna_96 Start: 65667, Stop: 66386, Start Num: 31

Candidate Starts for Sienna_96:

(6, 65493), (7, 65496), (Start: 31 @65667 has 5 MA's), (96, 65952), (102, 65997), (129, 66108), (150, 66225), (151, 66231), (160, 66264), (165, 66273), (168, 66294), (173, 66312), (181, 66351), (182, 66354), (189, 66375),

Gene: Sixama_183 Start: 106329, Stop: 105496, Start Num: 11

Candidate Starts for Sixama_183:

(Start: 11 @106329 has 1 MA's), (12, 106317), (Start: 31 @106209 has 5 MA's), (45, 106155), (46, 106152), (62, 106107), (90, 105969), (97, 105918), (98, 105909), (132, 105753), (133, 105747), (136, 105720), (138, 105714), (142, 105696), (144, 105687), (149, 105663), (182, 105528),

Gene: Skog_9 Start: 6153, Stop: 6860, Start Num: 33

Candidate Starts for Skog_9:

(Start: 33 @6153 has 16 MA's), (45, 6204), (63, 6255), (89, 6372), (90, 6390), (98, 6450), (110, 6492), (112, 6498), (129, 6585), (133, 6609), (143, 6666), (155, 6714), (166, 6753), (181, 6825),

Gene: Skysand_20 Start: 9079, Stop: 9852, Start Num: 26

Candidate Starts for Skysand_20:

(Start: 26 @9079 has 22 MA's), (Start: 60 @9187 has 1 MA's), (61, 9190), (72, 9241), (80, 9283), (97, 9397), (107, 9451), (135, 9583), (175, 9772), (190, 9826),

Gene: Spooky_28 Start: 21590, Stop: 22213, Start Num: 54

Candidate Starts for Spooky_28:

(2, 21218), (3, 21275), (5, 21320), (9, 21374), (10, 21377), (Start: 14 @21413 has 3 MA's), (18, 21458), (19, 21461), (Start: 54 @21590 has 28 MA's), (58, 21599), (62, 21626), (65, 21641), (79, 21701), (94, 21794), (97, 21821), (113, 21893), (126, 21956), (135, 22001), (137, 22019), (142, 22040), (144, 22049), (183, 22181), (185, 22190),

Gene: Squiddly_30 Start: 23002, Stop: 23625, Start Num: 54

Candidate Starts for Squiddly_30:

(2, 22630), (3, 22687), (5, 22732), (9, 22786), (10, 22789), (Start: 14 @22825 has 3 MA's), (18, 22870), (19, 22873), (Start: 54 @23002 has 28 MA's), (58, 23011), (62, 23038), (65, 23053), (79, 23113), (94, 23206), (97, 23233), (113, 23305), (126, 23368), (135, 23413), (137, 23431), (142, 23452), (144, 23461), (183, 23593), (185, 23602),

Gene: StarStruck_19 Start: 8535, Stop: 9323, Start Num: 27

Candidate Starts for StarStruck_19:

(Start: 27 @8535 has 8 MA's), (34, 8544), (52, 8634), (Start: 60 @8658 has 1 MA's), (62, 8673), (70, 8706), (80, 8754), (107, 8922), (114, 8943), (175, 9249), (177, 9258), (179, 9264), (180, 9273), (188, 9297),

Gene: Sukkupi_19 Start: 7686, Stop: 8480, Start Num: 14

Candidate Starts for Sukkupi_19:

(Start: 14 @7686 has 3 MA's), (Start: 60 @7800 has 1 MA's), (61, 7803), (62, 7815), (80, 7896), (101, 8046), (108, 8070), (117, 8103), (141, 8235), (168, 8361), (175, 8397), (190, 8451),

Gene: SuperSulley_20 Start: 8964, Stop: 9755, Start Num: 27

Candidate Starts for SuperSulley_20:

(Start: 27 @8964 has 8 MA's), (34, 8973), (42, 9009), (55, 9072), (Start: 60 @9090 has 1 MA's), (62, 9105), (68, 9129), (70, 9138), (80, 9186), (87, 9222), (101, 9333), (114, 9375), (172, 9660), (175, 9681), (177, 9690), (179, 9696), (188, 9729),

Gene: Suscepit_27 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Suscepit_27:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: SushiChef_27 Start: 22481, Stop: 23125, Start Num: 43

Candidate Starts for SushiChef_27:

(21, 22409), (36, 22448), (43, 22481), (Start: 48 @22508 has 12 MA's), (Start: 57 @22517 has 2 MA's), (65, 22559), (68, 22571), (79, 22619), (84, 22640), (87, 22661), (91, 22694), (97, 22739), (103, 22775), (104, 22778), (117, 22826), (137, 22937), (144, 22967), (158, 23018), (183, 23096),

Gene: Suzy_95 Start: 65979, Stop: 66695, Start Num: 33

Candidate Starts for Suzy_95:

(Start: 33 @65979 has 16 MA's), (76, 66147), (96, 66261), (111, 66327), (151, 66540), (160, 66573), (168, 66603), (182, 66663), (189, 66684),

Gene: Tayonia_27 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Tayonia_27:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: Terapin_96 Start: 65473, Stop: 66189, Start Num: 33

Candidate Starts for Terapin_96:

(Start: 33 @65473 has 16 MA's), (96, 65755), (102, 65800), (129, 65911), (150, 66028), (151, 66034), (160, 66067), (165, 66076), (168, 66097), (173, 66115), (181, 66154), (182, 66157), (189, 66178),

Gene: ThankyouJordi_24 Start: 22284, Stop: 22901, Start Num: 48

Candidate Starts for ThankyouJordi_24:

(21, 22185), (36, 22224), (43, 22257), (Start: 48 @22284 has 12 MA's), (56, 22290), (Start: 57 @22293 has 2 MA's), (65, 22335), (79, 22395), (91, 22470), (94, 22488), (97, 22515), (103, 22551), (117, 22602), (122, 22623), (137, 22713), (158, 22794), (183, 22872),

Gene: TimTam_25 Start: 22309, Stop: 22926, Start Num: 48

Candidate Starts for TimTam_25:

(21, 22210), (36, 22249), (43, 22282), (Start: 48 @22309 has 12 MA's), (Start: 57 @22318 has 2 MA's), (65, 22360), (68, 22372), (79, 22420), (84, 22441), (87, 22462), (91, 22495), (92, 22498), (97, 22540),

(103, 22576), (117, 22627), (126, 22675), (137, 22738), (144, 22768), (158, 22819), (183, 22897),

Gene: Tracker_19 Start: 9229, Stop: 9954, Start Num: 26

Candidate Starts for Tracker_19:

(Start: 26 @9229 has 22 MA's), (40, 9253), (44, 9286), (61, 9289), (68, 9325), (72, 9340), (80, 9382), (88, 9421), (101, 9529), (128, 9646), (141, 9721), (153, 9778), (163, 9820), (172, 9853), (175, 9874), (179, 9889), (192, 9949),

Gene: Trine_36 Start: 27342, Stop: 28031, Start Num: 33

Candidate Starts for Trine_36:

(Start: 22 @27315 has 3 MA's), (Start: 33 @27342 has 16 MA's), (37, 27354), (59, 27417), (62, 27438), (64, 27447), (78, 27504), (106, 27657), (128, 27753), (130, 27762), (138, 27813), (142, 27831), (146, 27852),

Gene: Trumpet_27 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Trumpet_27:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: Turuncu_22 Start: 8752, Stop: 9522, Start Num: 26

Candidate Starts for Turuncu_22:

(Start: 26 @8752 has 22 MA's), (35, 8770), (Start: 60 @8860 has 1 MA's), (72, 8914), (80, 8956), (123, 9184), (128, 9217), (129, 9220), (175, 9439), (188, 9487), (190, 9493),

Gene: Upyo_37 Start: 28484, Stop: 29182, Start Num: 33

Candidate Starts for Upyo_37:

(20, 28451), (Start: 33 @28484 has 16 MA's), (37, 28496), (62, 28580), (75, 28637), (78, 28646), (89, 28691), (93, 28721), (128, 28895), (138, 28955), (140, 28961), (142, 28973), (146, 28994), (150, 29015), (152, 29027), (181, 29135),

Gene: WelcomeAyanna_24 Start: 22284, Stop: 22901, Start Num: 48

Candidate Starts for WelcomeAyanna_24:

(21, 22185), (36, 22224), (43, 22257), (Start: 48 @22284 has 12 MA's), (56, 22290), (Start: 57 @22293 has 2 MA's), (65, 22335), (79, 22395), (91, 22470), (94, 22488), (97, 22515), (103, 22551), (117, 22602), (122, 22623), (137, 22713), (158, 22794), (183, 22872),

Gene: Wheezy_19 Start: 9432, Stop: 10157, Start Num: 26

Candidate Starts for Wheezy_19:

(Start: 26 @9432 has 22 MA's), (40, 9456), (44, 9489), (61, 9492), (68, 9528), (72, 9543), (80, 9585), (88, 9624), (101, 9732), (128, 9849), (141, 9924), (153, 9981), (163, 10023), (172, 10056), (175, 10077), (179, 10092), (192, 10152),

Gene: Whitney_29 Start: 22410, Stop: 23033, Start Num: 54

Candidate Starts for Whitney_29:

(2, 22035), (3, 22092), (5, 22137), (9, 22191), (10, 22194), (Start: 14 @22230 has 3 MA's), (18, 22275), (19, 22278), (Start: 54 @22410 has 28 MA's), (Start: 57 @22416 has 2 MA's), (62, 22446), (65, 22461), (79, 22521), (93, 22602), (97, 22641), (113, 22713), (126, 22776), (135, 22821), (137, 22839), (142, 22860), (144, 22869), (183, 23001), (185, 23010), (190, 23022),

Gene: WhoseManz_19 Start: 7300, Stop: 8043, Start Num: 28

Candidate Starts for WhoseManz_19:

(8, 7171), (Start: 26 @7297 has 22 MA's), (Start: 28 @7300 has 3 MA's), (Start: 60 @7363 has 1 MA's), (61, 7366), (62, 7378), (80, 7459), (101, 7609), (108, 7633), (117, 7666), (141, 7798), (168, 7924), (175, 7960), (190, 8014),

Gene: Widow_36 Start: 28002, Stop: 28706, Start Num: 33

Candidate Starts for Widow_36:

(24, 27984), (Start: 33 @28002 has 16 MA's), (37, 28014), (Start: 57 @28068 has 2 MA's), (62, 28098), (64, 28107), (78, 28167), (82, 28185), (106, 28320), (133, 28446), (138, 28479), (142, 28497), (148, 28530), (171, 28608), (181, 28659),

Gene: WorMMAs_37 Start: 27326, Stop: 28027, Start Num: 33

Candidate Starts for WorMMAs_37:

(Start: 27 @27317 has 8 MA's), (Start: 33 @27326 has 16 MA's), (64, 27431), (75, 27479), (78, 27488), (85, 27512), (93, 27563), (95, 27587), (106, 27641), (118, 27683), (128, 27740), (136, 27794), (138, 27800), (140, 27806), (142, 27818), (149, 27857), (150, 27860), (181, 27980),

Gene: Yeezy_27 Start: 21525, Stop: 22145, Start Num: 49

Candidate Starts for Yeezy_27:

(Start: 49 @21525 has 17 MA's), (Start: 57 @21534 has 2 MA's), (65, 21579), (84, 21660), (91, 21714), (97, 21759), (103, 21795), (117, 21846), (126, 21894), (137, 21957), (144, 21987), (158, 22038), (183, 22116),

Gene: Yndexa_19 Start: 7686, Stop: 8480, Start Num: 14

Candidate Starts for Yndexa_19:

(Start: 14 @7686 has 3 MA's), (Start: 60 @7800 has 1 MA's), (61, 7803), (62, 7815), (80, 7896), (101, 8046), (108, 8070), (117, 8103), (141, 8235), (168, 8361), (175, 8397), (190, 8451),

Gene: Zameen_27 Start: 22303, Stop: 22923, Start Num: 49

Candidate Starts for Zameen_27:

(1, 21928), (9, 22099), (10, 22102), (18, 22183), (21, 22204), (Start: 49 @22303 has 17 MA's), (Start: 57 @22312 has 2 MA's), (65, 22357), (84, 22438), (97, 22537), (103, 22573), (117, 22624), (126, 22672), (137, 22735), (144, 22765), (158, 22816), (175, 22867), (183, 22894),

Gene: Zirinka_25 Start: 22321, Stop: 22938, Start Num: 48

Candidate Starts for Zirinka_25:

(21, 22222), (36, 22261), (43, 22294), (Start: 48 @22321 has 12 MA's), (Start: 57 @22330 has 2 MA's), (65, 22372), (68, 22384), (79, 22432), (84, 22453), (87, 22474), (91, 22507), (97, 22552), (103, 22588), (117, 22639), (137, 22750), (144, 22780), (158, 22831), (183, 22909),