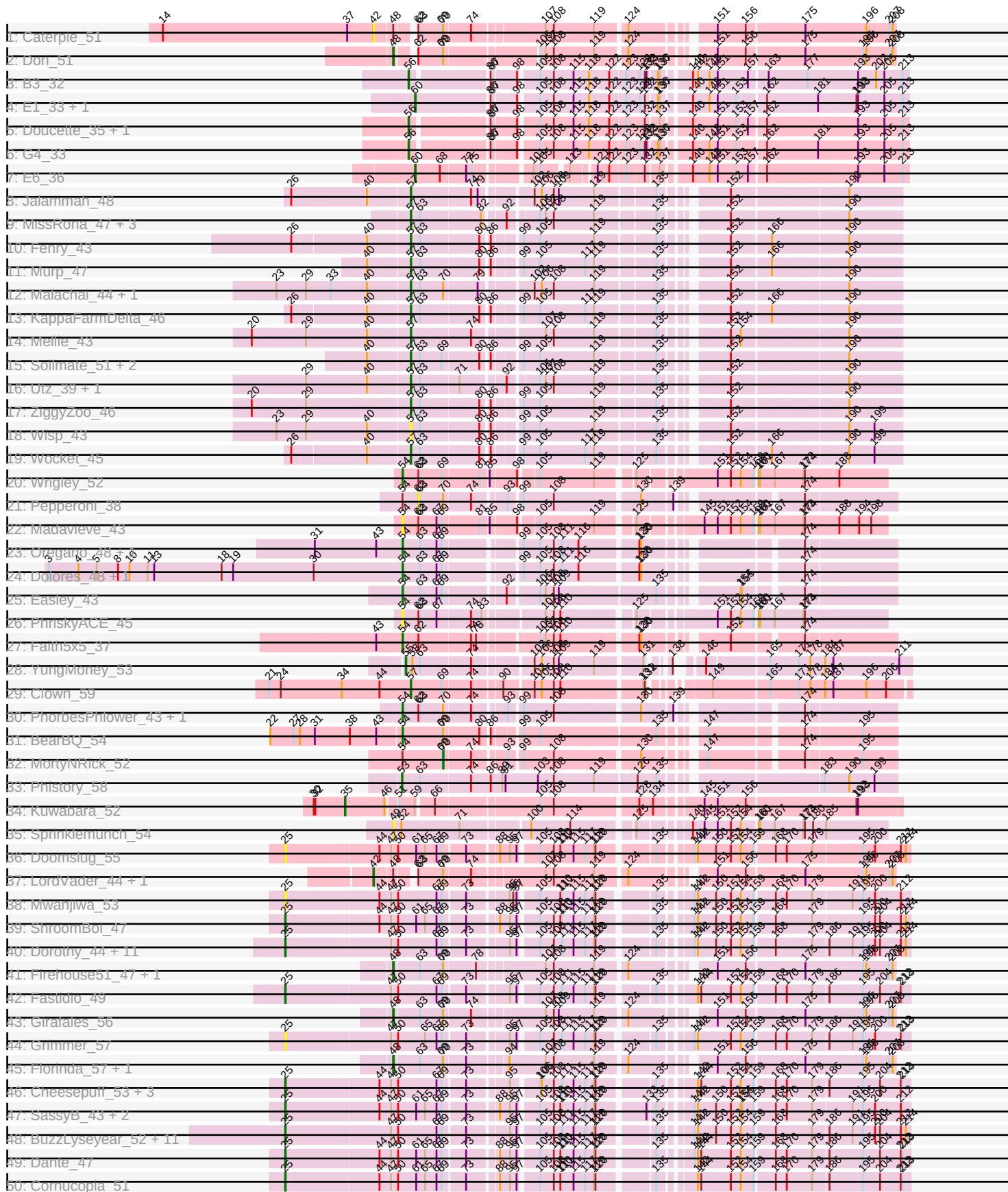
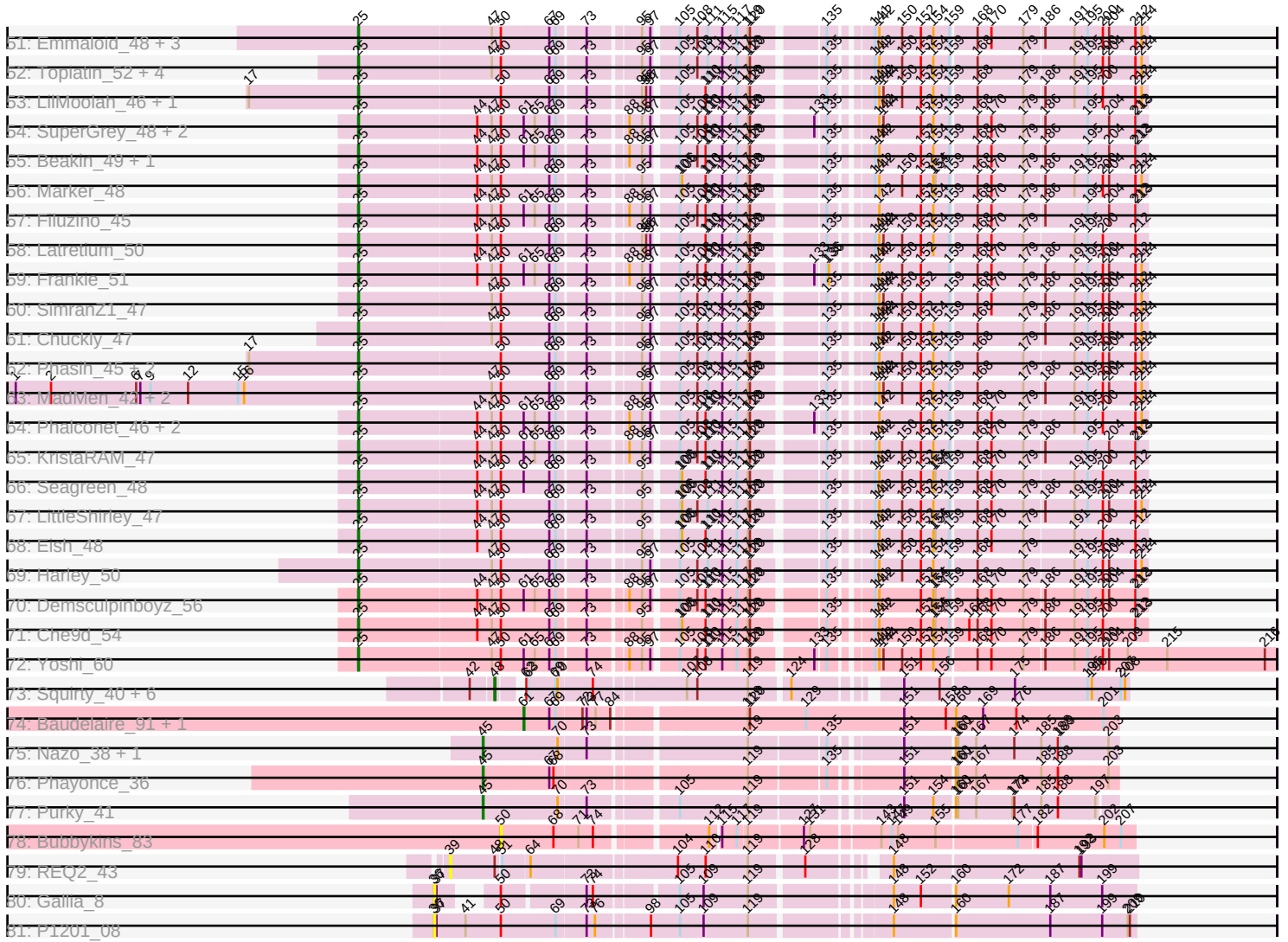


Pham 296317



Pham 296317



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 296317 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296317 has 148 members, 21 are drafts.

Phages represented in each track:

- Track 1 : Caterpie_51
- Track 2 : Dori_51
- Track 3 : B3_32
- Track 4 : E1_33, Anatole_33
- Track 5 : Doucette_35, B22_33
- Track 6 : G4_33
- Track 7 : E6_36
- Track 8 : Jalammah_48
- Track 9 : MissRona_47, Blueberry_46, Gambino_49, Azula_47
- Track 10 : Fenry_43
- Track 11 : Murp_47
- Track 12 : Malachai_44, Begonia_44
- Track 13 : KappaFarmDelta_46
- Track 14 : Mellie_43
- Track 15 : Soilmate_51, CarolAnn_48, Blino_49
- Track 16 : Utz_39, Samba_44
- Track 17 : ZiggyZoo_46
- Track 18 : Wisp_43
- Track 19 : Wocket_45
- Track 20 : Wrigley_52
- Track 21 : Pepperoni_38
- Track 22 : Madavieve_43
- Track 23 : Oregano_48, Annalisa_45
- Track 24 : Dolores_48, WinkNick_49
- Track 25 : Easley_43
- Track 26 : PhriskyACE_45
- Track 27 : Faith5x5_37
- Track 28 : YungMoney_53
- Track 29 : Clown_59
- Track 30 : PhorbesPhlower_43, InLimbo_43
- Track 31 : BearBQ_54
- Track 32 : MortyNRick_52
- Track 33 : Phistory_58
- Track 34 : Kuwabara_52
- Track 35 : Sprinklemunch_54
- Track 36 : Doomslug_55
- Track 37 : LordVader_44, LastJedi_41

- Track 38 : Mwanjiwa_53
- Track 39 : ShroomBoi_47
- Track 40 : Dorothy_44, Doomphist_47, Girr_48, Poenanya_47, Job42_48, RedBird_44, Blexus_45, Ruby_46, Stap_46, BlueCrab_45, MisterCuddles_47, Madiba_43
- Track 41 : Firehouse51_47, DosHalletts_47
- Track 42 : Fastidio_49
- Track 43 : Girafales_56
- Track 44 : Grimmer_57
- Track 45 : Florinda_57, Quico_55
- Track 46 : Cheesepuff_53, DaWorst_49, Ogopogo_48, DillTech15_46
- Track 47 : SassyB_43, Estave1_48, PopTart_43
- Track 48 : BuzzLyseyear_52, Starceвич_47, Karhdo_46, Vivum_50, Veteran_45, GUmbie_45, Tweety_47, Mantra_44, GigiOuiOui_44, Wee_50, SiSi_47, Hamulus_48
- Track 49 : Dante_47
- Track 50 : Cornucopia_51
- Track 51 : Emmaloid_48, DotProduct_44, Totinger_47, Slim_48
- Track 52 : Topiatin_52, Pollywog_46, PMC_42, Boomer_50, Rockne_45
- Track 53 : LilMoolah_46, Nivrat_45
- Track 54 : SuperGrey_48, Fruitloop_46, Brushbloom_50
- Track 55 : Beakin_49, Jant_52
- Track 56 : Marker_48
- Track 57 : Filuzino_45
- Track 58 : Latretium_50
- Track 59 : Frankie_51
- Track 60 : SimranZ1_47
- Track 61 : Chuckly_47
- Track 62 : Phasih_45, Zerg_46, RockyHorror_48
- Track 63 : MadMen_42, Beanstalk_50, Krakatau_45
- Track 64 : Phalconet_46, PhesterPhotato_49, Okabe_43
- Track 65 : KristaRAM_47
- Track 66 : Seagreen_48
- Track 67 : LittleShirley_47
- Track 68 : Eish_48
- Track 69 : Harley_50
- Track 70 : Demsculpinboyz_56
- Track 71 : Che9d_54
- Track 72 : Yoshi_60
- Track 73 : Squirty_40, Donkeykong_46, Zizzle_51, Brocalys_43, Pippy_45, Clifton_42, Jennelsea_44
- Track 74 : Baudelaire_91, Aegeus_91
- Track 75 : Nazo_38, BigNuz_37
- Track 76 : Phayonce_36
- Track 77 : Purky_41
- Track 78 : Bubbykins_83
- Track 79 : REQ2_43
- Track 80 : Gallia_8
- Track 81 : P1201_08

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

The start number called the most often in the published annotations is 25, it was called in 70 of the 127 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beakin_49, Beanstalk_50, Blexus_45, BlueCrab_45, Boomer_50, Brushbloom_50, BuzzLyseyear_52, Che9d_54, Cheesepuff_53, Chuckly_47, Cornucopia_51, DaWorst_49, Dante_47, Demsculpinboyz_56, DillTech15_46, Doomphist_47, Doomslug_55, Dorothy_44, DotProduct_44, Eish_48, Emmaloid_48, Estave1_48, Fastidio_49, Filuzino_45, Frankie_51, Fruitloop_46, GUmbie_45, GigiOuiOui_44, Girr_48, Grimmer_57, Hamulus_48, Harley_50, Jant_52, Job42_48, Karhdo_46, Krakatau_45, KristaRAM_47, Latretium_50, LilMoolah_46, LittleShirley_47, MadMen_42, Madiba_43, Mantra_44, Marker_48, MisterCuddles_47, Mwanjiwa_53, Nivrat_45, Ogopogo_48, Okabe_43, PMC_42, Phalconet_46, Phasih_45, PhesterPhotato_49, Poenanya_47, Pollywog_46, PopTart_43, RedBird_44, Rockne_45, RockyHorror_48, Ruby_46, SassyB_43, Seagreen_48, ShroomBoi_47, SiSi_47, SimranZ1_47, Slim_48, Stap_46, Starcevich_47, SuperGrey_48, Topiatin_52, Totinger_47, Tweety_47, Veteran_45, Vivum_50, Wee_50, Yoshi_60, Zerg_46,

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

-

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

- Aegeus_91, Anatole_33, Annalisa_45, Azula_47, B22_33, B3_32, Baudelaire_91, BearBQ_54, Begonia_44, BigNuz_37, Blino_49, Blueberry_46, Brocalys_43, Bubbykins_83, CarolAnn_48, Caterpie_51, Clifton_42, Clown_59, Dolores_48, Donkeykong_46, Dori_51, DosHalletts_47, Doucette_35, E1_33, E6_36, Easley_43, Faith5x5_37, Fenry_43, Firehouse51_47, Florinda_57, G4_33, Gallia_8, Gambino_49, Girafales_56, InLimbo_43, Jalamma_48, Jennelsea_44, KappaFarmDelta_46, Kuwabara_52, LastJedi_41, LordVader_44, Madavieve_43, Malachai_44, Mellie_43, MissRona_47, MortyNRick_52, Murp_47, Nazo_38, Oregano_48, P1201_08, Pepperoni_38, Phayonce_36, Phistory_58, PhorbesPhlower_43, PhriskyACE_45, Pippy_45, Purky_41, Quico_55, REQ2_43, Samba_44, Soilmate_51, Sprinklemunch_54, Squirty_40, Utz_39, WinkNick_49, Wisp_43, Wocket_45, Wrigley_52, YungMoney_53, ZiggyZoo_46, Zizzle_51,

Summary by start number:

Start 25:

- Found in 77 of 148 (52.0%) of genes in pham
- Manual Annotations of this start: 70 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beakin_49 (F1), Beanstalk_50 (F1), Blexus_45 (F1), BlueCrab_45 (F1), Boomer_50 (F1), Brushbloom_50 (F1), BuzzLyseyear_52 (F1), Che9d_54 (F2), Cheesepuff_53 (F1), Chuckly_47 (F1), Cornucopia_51 (F1), DaWorst_49 (F1), Dante_47 (F1), Demsculpinboyz_56 (F2), DillTech15_46 (F1), Doomphist_47 (F1), Doomslug_55 (F), Dorothy_44 (F1), DotProduct_44 (F1), Eish_48 (F1), Emmaloid_48 (F1), Estave1_48 (F1), Fastidio_49 (F1), Filuzino_45 (F1), Frankie_51 (F1), Fruitloop_46 (F1), GUmbie_45 (F1), GigiOuiOui_44 (F1), Girr_48 (F1), Grimmer_57 (F1), Hamulus_48 (F1), Harley_50 (F1), Jant_52 (F1), Job42_48 (F1), Karhdo_46 (F1), Krakatau_45 (F1), KristaRAM_47 (F1), Latretium_50 (F1), LilMoolah_46 (F1), LittleShirley_47 (F1), MadMen_42 (F1),

Madiba_43 (F1), Mantra_44 (F1), Marker_48 (F1), MisterCuddles_47 (F1), Mwanjiwa_53 (F1), Nivrat_45 (F1), Ogopogo_48 (F1), Okabe_43 (F8), PMC_42 (F1), Phalconet_46 (F1), Phasih_45 (F1), PhesterPhotato_49 (F1), Poenanya_47 (F1), Pollywog_46 (F1), PopTart_43 (F1), RedBird_44 (F1), Rockne_45 (F1), RockyHorror_48 (F1), Ruby_46 (F1), SassyB_43 (F1), Seagreen_48 (F1), ShroomBoi_47 (F1), SiSi_47 (F1), SimranZ1_47 (F1), Slim_48 (F1), Stap_46 (F1), Starceвич_47 (F1), SuperGrey_48 (F1), Topiatin_52 (F1), Totinger_47 (F1), Tweety_47 (F1), Veteran_45 (F1), Vivum_50 (F1), Wee_50 (F1), Yoshi_60 (F2), Zerg_46 (F1),

Start 35:

- Found in 1 of 148 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuwabara_52 (DN4),

Start 36:

- Found in 2 of 148 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gallia_8 (singleton), P1201_08 (singleton),

Start 39:

- Found in 1 of 148 (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: REQ2_43 (singleton),

Start 42:

- Found in 10 of 148 (6.8%) of genes in pham
- Manual Annotations of this start: 1 of 127
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Caterpie_51 (AD), LastJedi_41 (F1), LordVader_44 (F),

Start 45:

- Found in 4 of 148 (2.7%) of genes in pham
- Manual Annotations of this start: 4 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigNuz_37 (P4), Nazo_38 (P4), Phayonce_36 (P5), Purky_41 (P6),

Start 48:

- Found in 17 of 148 (11.5%) of genes in pham
- Manual Annotations of this start: 12 of 127
- Called 76.5% of time when present
- Phage (with cluster) where this start called: Brocalys_43 (F1), Clifton_42 (F1), Donkeykong_46 (F1), Dori_51 (AD), DosHalletts_47 (F1), Firehouse51_47 (F1), Florinda_57 (F1), Girafales_56 (F1), Jennelsea_44 (F1), Pippy_45 (F1), Quico_55 (F1), Squirty_40 (F3), Zizzle_51 (F1),

Start 49:

- Found in 1 of 148 (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: Sprinklemunch_54 (DW),

Start 50:

- Found in 80 of 148 (54.1%) of genes in pham
- No Manual Annotations of this start.
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Bubbykins_83 (UNK),

Start 53:

- Found in 1 of 148 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phistory_58 (DN1),

Start 54:

- Found in 14 of 148 (9.5%) of genes in pham
- Manual Annotations of this start: 9 of 127
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Annalisa_45 (CZ4), BearBQ_54 (DN), Dolores_48 (CZ4), Easley_43 (CZ4), Faith5x5_37 (CZ6), InLimbo_43 (DH), Madavieve_43 (CZ1), Oregano_48 (CZ4), PhorbesPhlower_43 (DH), PhriskyACE_45 (CZ4), WinkNick_49 (CZ4), Wrigley_52 (CY4),

Start 55:

- Found in 1 of 148 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: YungMoney_53 (DC1),

Start 56:

- Found in 4 of 148 (2.7%) of genes in pham
- Manual Annotations of this start: 4 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: B22_33 (BW), B3_32 (BV), Doucette_35 (BW), G4_33 (BW),

Start 57:

- Found in 20 of 148 (13.5%) of genes in pham
- Manual Annotations of this start: 18 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azula_47 (CV), Begonia_44 (CV), Blino_49 (CV), Blueberry_46 (CV), CarolAnn_48 (CV), Clown_59 (DC2), Fenry_43 (CV), Gambino_49 (CV), Jalammah_48 (CV), KappaFarmDelta_46 (CV), Malachai_44 (CV), Mellie_43 (CV), MissRona_47 (CV), Murp_47 (CV), Samba_44 (CV), Soilmate_51 (CV), Utz_39 (CV), Wisp_43 (CV), Wocket_45 (CV), ZiggyZoo_46 (CV),

Start 60:

- Found in 3 of 148 (2.0%) of genes in pham
- Manual Annotations of this start: 3 of 127

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anatole_33 (BV), E1_33 (BV), E6_36 (BW),

Start 61:

- Found in 23 of 148 (15.5%) of genes in pham
- Manual Annotations of this start: 2 of 127
- Called 8.7% of time when present
- Phage (with cluster) where this start called: Aegeus_91 (L5), Baudelaire_91 (L5),

Start 62:

- Found in 18 of 148 (12.2%) of genes in pham
- No Manual Annotations of this start.
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Pepperoni_38 (CZ),

Start 70:

- Found in 26 of 148 (17.6%) of genes in pham
- Manual Annotations of this start: 1 of 127
- Called 3.8% of time when present
- Phage (with cluster) where this start called: MortyNRick_52 (DN),

Summary by clusters:

There are 27 clusters represented in this pham: DN, singleton, DH, CZ1, CZ6, CZ4, BV, BW, DW, CY4, DN4, DN1, P5, P6, AD, P4, F, CZ, L5, UNK, DC2, CV, DC1, F1, F2, F3, F8,

Info for manual annotations of cluster AD:

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

Info for manual annotations of cluster BV:

- Start number 56 was manually annotated 1 time for cluster BV.
- Start number 60 was manually annotated 2 times for cluster BV.

Info for manual annotations of cluster BW:

- Start number 56 was manually annotated 3 times for cluster BW.
- Start number 60 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster CV:

- Start number 57 was manually annotated 17 times for cluster CV.

Info for manual annotations of cluster CY4:

- Start number 54 was manually annotated 1 time for cluster CY4.

Info for manual annotations of cluster CZ4:

- Start number 54 was manually annotated 5 times for cluster CZ4.

Info for manual annotations of cluster CZ6:

- Start number 54 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DC1:

- Start number 55 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 57 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DH:

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

Info for manual annotations of cluster DN:

- Start number 54 was manually annotated 1 time for cluster DN.
- Start number 70 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 53 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN4:

- Start number 35 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster F1:

- Start number 25 was manually annotated 67 times for cluster F1.
- Start number 42 was manually annotated 1 time for cluster F1.
- Start number 48 was manually annotated 10 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 25 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F3:

- Start number 48 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster L5:

- Start number 61 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster P4:

- Start number 45 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 45 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:

- Start number 45 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Aegeus_91 Start: 56094, Stop: 56897, Start Num: 61

Candidate Starts for Aegeus_91:

(Start: 61 @56094 has 2 MA's), (67, 56127), (69, 56136), (72, 56169), (73, 56175), (77, 56187), (84, 56208), (119, 56373), (120, 56376), (129, 56457), (151, 56595), (158, 56655), (160, 56670), (169, 56709), (176, 56757), (201, 56877),

Gene: Anatole_33 Start: 24569, Stop: 25372, Start Num: 60

Candidate Starts for Anatole_33:

(Start: 60 @24569 has 3 MA's), (86, 24692), (87, 24695), (98, 24734), (105, 24761), (108, 24785), (115, 24821), (118, 24848), (122, 24881), (123, 24908), (129, 24929), (132, 24938), (136, 24956), (137, 24959), (140, 25001), (148, 25031), (151, 25043), (153, 25076), (162, 25121), (181, 25211), (192, 25277), (193, 25280), (205, 25328), (213, 25361),

Gene: Annalisa_45 Start: 33306, Stop: 34055, Start Num: 54

Candidate Starts for Annalisa_45:

(31, 33153), (43, 33261), (Start: 54 @33306 has 9 MA's), (63, 33336), (67, 33363), (69, 33372), (99, 33489), (105, 33516), (108, 33540), (111, 33555), (116, 33585), (128, 33675), (130, 33678), (174, 33900),

Gene: Azula_47 Start: 35195, Stop: 35956, Start Num: 57

Candidate Starts for Azula_47:

(Start: 57 @35195 has 18 MA's), (63, 35210), (82, 35312), (92, 35345), (105, 35390), (107, 35399), (108, 35414), (119, 35483), (135, 35579), (152, 35669), (190, 35861),

Gene: B22_33 Start: 23699, Stop: 24502, Start Num: 56

Candidate Starts for B22_33:

(Start: 56 @23699 has 4 MA's), (86, 23822), (87, 23825), (98, 23864), (105, 23891), (108, 23915), (115, 23951), (118, 23978), (122, 24011), (123, 24038), (132, 24068), (137, 24089), (140, 24131), (151, 24173), (153, 24206), (157, 24224), (162, 24251), (193, 24410), (205, 24458), (213, 24491),

Gene: B3_32 Start: 23829, Stop: 24632, Start Num: 56

Candidate Starts for B3_32:

(Start: 56 @23829 has 4 MA's), (86, 23952), (87, 23955), (98, 23994), (105, 24021), (108, 24045), (115, 24081), (118, 24108), (122, 24141), (123, 24168), (129, 24189), (132, 24198), (133, 24201), (136, 24216), (137, 24219), (140, 24261), (142, 24270), (148, 24291), (151, 24303), (157, 24354), (163, 24384), (177, 24453), (193, 24540), (202, 24573), (205, 24588), (213, 24621),

Gene: Baudelaire_91 Start: 56094, Stop: 56897, Start Num: 61

Candidate Starts for Baudelaire_91:

(Start: 61 @56094 has 2 MA's), (67, 56127), (69, 56136), (72, 56169), (73, 56175), (77, 56187), (84, 56208), (119, 56373), (120, 56376), (129, 56457), (151, 56595), (158, 56655), (160, 56670), (169, 56709), (176, 56757), (201, 56877),

Gene: Beakin_49 Start: 35134, Stop: 36138, Start Num: 25

Candidate Starts for Beakin_49:

(Start: 25 @35134 has 70 MA's), (44, 35302), (47, 35323), (50, 35335), (Start: 61 @35368 has 2 MA's), (65, 35383), (67, 35401), (69, 35410), (73, 35446), (88, 35494), (95, 35512), (97, 35524), (105, 35551), (108, 35575), (110, 35587), (111, 35590), (115, 35611), (117, 35632), (119, 35644), (120, 35647), (135, 35731), (141, 35776), (142, 35782), (152, 35839), (154, 35857), (159, 35878), (168, 35911), (170, 35929), (179, 35971), (186, 35998), (195, 36055), (204, 36085), (212, 36121), (213, 36124),

Gene: Beanstalk_50 Start: 34763, Stop: 35770, Start Num: 25

Candidate Starts for Beanstalk_50:

(1, 34268), (2, 34319), (6, 34442), (7, 34448), (9, 34463), (12, 34517), (15, 34589), (16, 34598), (Start: 25 @34763 has 70 MA's), (47, 34955), (50, 34967), (67, 35033), (69, 35042), (73, 35078), (95, 35144),

(97, 35156), (105, 35183), (108, 35207), (111, 35222), (115, 35243), (117, 35264), (119, 35276), (120, 35279), (135, 35363), (141, 35408), (142, 35414), (144, 35420), (150, 35444), (152, 35471), (154, 35489), (159, 35510), (168, 35543), (179, 35603), (186, 35630), (191, 35669), (195, 35687), (200, 35708), (204, 35717), (212, 35753), (214, 35762),

Gene: BearBQ_54 Start: 38297, Stop: 39052, Start Num: 54

Candidate Starts for BearBQ_54:

(22, 38063), (27, 38105), (28, 38117), (31, 38144), (38, 38207), (43, 38255), (Start: 54 @38297 has 9 MA's), (69, 38363), (Start: 70 @38366 has 1 MA's), (80, 38426), (86, 38438), (99, 38480), (105, 38507), (135, 38702), (147, 38753), (174, 38897), (195, 38990),

Gene: Begonia_44 Start: 35305, Stop: 36069, Start Num: 57

Candidate Starts for Begonia_44:

(23, 35065), (29, 35119), (33, 35164), (40, 35230), (Start: 57 @35305 has 18 MA's), (63, 35320), (Start: 70 @35359 has 1 MA's), (79, 35416), (102, 35494), (106, 35506), (108, 35527), (119, 35596), (135, 35692), (152, 35782), (190, 35974),

Gene: BigNuz_37 Start: 30064, Stop: 30867, Start Num: 45

Candidate Starts for BigNuz_37:

(Start: 45 @30064 has 4 MA's), (Start: 70 @30166 has 1 MA's), (73, 30202), (119, 30394), (135, 30490), (151, 30574), (160, 30640), (161, 30643), (167, 30667), (174, 30721), (185, 30760), (188, 30781), (189, 30784), (203, 30853),

Gene: Blexus_45 Start: 35131, Stop: 36135, Start Num: 25

Candidate Starts for Blexus_45:

(Start: 25 @35131 has 70 MA's), (47, 35320), (50, 35332), (67, 35398), (69, 35407), (73, 35443), (95, 35509), (97, 35521), (105, 35548), (108, 35572), (111, 35587), (115, 35608), (117, 35629), (119, 35641), (120, 35644), (135, 35728), (141, 35773), (142, 35779), (150, 35809), (152, 35836), (154, 35854), (159, 35875), (168, 35908), (179, 35968), (186, 35995), (191, 36034), (195, 36052), (200, 36073), (204, 36082), (212, 36118), (214, 36127),

Gene: Blino_49 Start: 38491, Stop: 39252, Start Num: 57

Candidate Starts for Blino_49:

(40, 38416), (Start: 57 @38491 has 18 MA's), (63, 38506), (69, 38542), (80, 38605), (86, 38617), (99, 38659), (105, 38686), (119, 38779), (135, 38875), (152, 38965), (190, 39157),

Gene: BlueCrab_45 Start: 34857, Stop: 35861, Start Num: 25

Candidate Starts for BlueCrab_45:

(Start: 25 @34857 has 70 MA's), (47, 35046), (50, 35058), (67, 35124), (69, 35133), (73, 35169), (95, 35235), (97, 35247), (105, 35274), (108, 35298), (111, 35313), (115, 35334), (117, 35355), (119, 35367), (120, 35370), (135, 35454), (141, 35499), (142, 35505), (150, 35535), (152, 35562), (154, 35580), (159, 35601), (168, 35634), (179, 35694), (186, 35721), (191, 35760), (195, 35778), (200, 35799), (204, 35808), (212, 35844), (214, 35853),

Gene: Blueberry_46 Start: 35195, Stop: 35956, Start Num: 57

Candidate Starts for Blueberry_46:

(Start: 57 @35195 has 18 MA's), (63, 35210), (82, 35312), (92, 35345), (105, 35390), (107, 35399), (108, 35414), (119, 35483), (135, 35579), (152, 35669), (190, 35861),

Gene: Boomer_50 Start: 36306, Stop: 37310, Start Num: 25

Candidate Starts for Boomer_50:

(Start: 25 @36306 has 70 MA's), (47, 36495), (50, 36507), (67, 36573), (69, 36582), (73, 36618), (95, 36684), (97, 36696), (105, 36723), (108, 36747), (111, 36762), (115, 36783), (117, 36804), (119,

36816), (120, 36819), (135, 36903), (141, 36948), (142, 36954), (150, 36984), (152, 37011), (154, 37029), (159, 37050), (168, 37083), (179, 37143), (191, 37209), (195, 37227), (200, 37248), (204, 37257), (212, 37293), (214, 37302),

Gene: Brocalys_43 Start: 31207, Stop: 31986, Start Num: 48

Candidate Starts for Brocalys_43:

(Start: 42 @31177 has 1 MA's), (Start: 48 @31207 has 12 MA's), (62, 31231), (63, 31234), (69, 31270), (Start: 70 @31273 has 1 MA's), (74, 31318), (107, 31426), (108, 31441), (119, 31510), (124, 31558), (151, 31675), (156, 31726), (175, 31822), (195, 31927), (196, 31933), (207, 31975), (208, 31981),

Gene: Brushbloom_50 Start: 35774, Stop: 36778, Start Num: 25

Candidate Starts for Brushbloom_50:

(Start: 25 @35774 has 70 MA's), (44, 35942), (47, 35963), (50, 35975), (Start: 61 @36008 has 2 MA's), (65, 36023), (67, 36041), (69, 36050), (73, 36086), (88, 36134), (95, 36152), (97, 36164), (105, 36191), (108, 36215), (110, 36227), (111, 36230), (115, 36251), (117, 36272), (119, 36284), (120, 36287), (133, 36359), (135, 36371), (142, 36422), (144, 36428), (152, 36479), (154, 36497), (159, 36518), (168, 36551), (170, 36569), (179, 36611), (186, 36638), (195, 36695), (204, 36725), (212, 36761), (213, 36764),

Gene: Bubbykins_83 Start: 52362, Stop: 53198, Start Num: 50

Candidate Starts for Bubbykins_83:

(50, 52362), (68, 52437), (71, 52470), (74, 52491), (112, 52632), (115, 52644), (117, 52665), (119, 52677), (127, 52749), (131, 52758), (143, 52845), (147, 52860), (149, 52869), (155, 52923), (177, 53034), (182, 53058), (202, 53154), (207, 53178),

Gene: BuzzLyseyear_52 Start: 36683, Stop: 37687, Start Num: 25

Candidate Starts for BuzzLyseyear_52:

(Start: 25 @36683 has 70 MA's), (47, 36872), (50, 36884), (67, 36950), (69, 36959), (73, 36995), (95, 37061), (97, 37073), (105, 37100), (108, 37124), (111, 37139), (115, 37160), (117, 37181), (119, 37193), (120, 37196), (135, 37280), (141, 37325), (142, 37331), (150, 37361), (152, 37388), (154, 37406), (159, 37427), (168, 37460), (179, 37520), (186, 37547), (191, 37586), (195, 37604), (200, 37625), (204, 37634), (212, 37670), (214, 37679),

Gene: CarolAnn_48 Start: 38490, Stop: 39251, Start Num: 57

Candidate Starts for CarolAnn_48:

(40, 38415), (Start: 57 @38490 has 18 MA's), (63, 38505), (69, 38541), (80, 38604), (86, 38616), (99, 38658), (105, 38685), (119, 38778), (135, 38874), (152, 38964), (190, 39156),

Gene: Caterpie_51 Start: 43734, Stop: 44543, Start Num: 42

Candidate Starts for Caterpie_51:

(14, 43353), (37, 43689), (Start: 42 @43734 has 1 MA's), (Start: 48 @43764 has 12 MA's), (62, 43788), (63, 43791), (69, 43827), (Start: 70 @43830 has 1 MA's), (74, 43875), (107, 43983), (108, 43998), (119, 44067), (124, 44115), (151, 44232), (156, 44283), (175, 44379), (196, 44490), (207, 44532), (208, 44538),

Gene: Che9d_54 Start: 34668, Stop: 35669, Start Num: 25

Candidate Starts for Che9d_54:

(Start: 25 @34668 has 70 MA's), (44, 34836), (47, 34857), (50, 34869), (67, 34935), (69, 34944), (73, 34980), (95, 35046), (105, 35085), (106, 35088), (110, 35121), (111, 35124), (115, 35145), (117, 35166), (119, 35178), (120, 35181), (135, 35262), (141, 35307), (142, 35313), (152, 35370), (154, 35388), (155, 35391), (159, 35409), (164, 35430), (168, 35442), (170, 35460), (179, 35502), (186, 35529), (191, 35568), (195, 35586), (200, 35607), (212, 35652), (213, 35655),

Gene: Cheesepuff_53 Start: 37297, Stop: 38301, Start Num: 25

Candidate Starts for Cheesepuff_53:

(Start: 25 @37297 has 70 MA's), (44, 37465), (47, 37486), (50, 37498), (67, 37564), (69, 37573), (73, 37609), (95, 37675), (105, 37714), (106, 37717), (108, 37738), (111, 37753), (115, 37774), (117, 37795), (119, 37807), (120, 37810), (135, 37894), (142, 37945), (144, 37951), (152, 38002), (154, 38020), (159, 38041), (168, 38074), (170, 38092), (179, 38134), (186, 38161), (195, 38218), (204, 38248), (212, 38284), (213, 38287),

Gene: Chuckly_47 Start: 35101, Stop: 36108, Start Num: 25

Candidate Starts for Chuckly_47:

(Start: 25 @35101 has 70 MA's), (47, 35293), (50, 35305), (67, 35371), (69, 35380), (73, 35416), (95, 35482), (97, 35494), (105, 35521), (108, 35545), (111, 35560), (115, 35581), (117, 35602), (119, 35614), (120, 35617), (135, 35701), (141, 35746), (142, 35752), (144, 35758), (150, 35782), (152, 35809), (154, 35827), (159, 35848), (168, 35881), (179, 35941), (186, 35968), (191, 36007), (195, 36025), (200, 36046), (204, 36055), (212, 36091), (214, 36100),

Gene: Clifton_42 Start: 31558, Stop: 32337, Start Num: 48

Candidate Starts for Clifton_42:

(Start: 42 @31528 has 1 MA's), (Start: 48 @31558 has 12 MA's), (62, 31582), (63, 31585), (69, 31621), (Start: 70 @31624 has 1 MA's), (74, 31669), (107, 31777), (108, 31792), (119, 31861), (124, 31909), (151, 32026), (156, 32077), (175, 32173), (195, 32278), (196, 32284), (207, 32326), (208, 32332),

Gene: Clown_59 Start: 43467, Stop: 44249, Start Num: 57

Candidate Starts for Clown_59:

(21, 43209), (24, 43230), (34, 43341), (44, 43410), (Start: 57 @43467 has 18 MA's), (69, 43518), (74, 43566), (90, 43611), (102, 43656), (106, 43668), (108, 43689), (110, 43701), (131, 43833), (132, 43836), (149, 43908), (165, 44004), (171, 44055), (178, 44076), (184, 44103), (187, 44118), (196, 44178), (206, 44214),

Gene: Cornucopia_51 Start: 36403, Stop: 37407, Start Num: 25

Candidate Starts for Cornucopia_51:

(Start: 25 @36403 has 70 MA's), (44, 36571), (47, 36592), (50, 36604), (Start: 61 @36637 has 2 MA's), (65, 36652), (67, 36670), (69, 36679), (73, 36715), (88, 36763), (95, 36781), (97, 36793), (105, 36820), (108, 36844), (110, 36856), (111, 36859), (115, 36880), (117, 36901), (119, 36913), (120, 36916), (135, 37000), (142, 37051), (144, 37057), (152, 37108), (154, 37126), (159, 37147), (168, 37180), (170, 37198), (179, 37240), (186, 37267), (195, 37324), (204, 37354), (212, 37390), (213, 37393),

Gene: DaWorst_49 Start: 35931, Stop: 36935, Start Num: 25

Candidate Starts for DaWorst_49:

(Start: 25 @35931 has 70 MA's), (44, 36099), (47, 36120), (50, 36132), (67, 36198), (69, 36207), (73, 36243), (95, 36309), (105, 36348), (106, 36351), (108, 36372), (111, 36387), (115, 36408), (117, 36429), (119, 36441), (120, 36444), (135, 36528), (142, 36579), (144, 36585), (152, 36636), (154, 36654), (159, 36675), (168, 36708), (170, 36726), (179, 36768), (186, 36795), (195, 36852), (204, 36882), (212, 36918), (213, 36921),

Gene: Dante_47 Start: 34836, Stop: 35840, Start Num: 25

Candidate Starts for Dante_47:

(Start: 25 @34836 has 70 MA's), (44, 35004), (47, 35025), (50, 35037), (Start: 61 @35070 has 2 MA's), (65, 35085), (67, 35103), (69, 35112), (73, 35148), (88, 35196), (95, 35214), (97, 35226), (105, 35253), (108, 35277), (110, 35289), (111, 35292), (115, 35313), (117, 35334), (119, 35346), (120, 35349), (135, 35433), (141, 35478), (142, 35484), (144, 35490), (152, 35541), (154, 35559), (159, 35580), (168, 35613), (170, 35631), (179, 35673), (186, 35700), (195, 35757), (204, 35787), (212, 35823), (213, 35826),

Gene: Demsculpinboyz_56 Start: 34780, Stop: 35781, Start Num: 25

Candidate Starts for Demsculpinboyz_56:

(Start: 25 @34780 has 70 MA's), (44, 34948), (47, 34969), (50, 34981), (Start: 61 @35014 has 2 MA's), (65, 35029), (67, 35047), (69, 35056), (73, 35092), (88, 35140), (95, 35158), (97, 35170), (105, 35197), (108, 35221), (110, 35233), (111, 35236), (115, 35257), (117, 35278), (119, 35290), (120, 35293), (135, 35374), (141, 35419), (142, 35425), (152, 35482), (154, 35500), (155, 35503), (159, 35521), (168, 35554), (170, 35572), (179, 35614), (186, 35641), (191, 35680), (195, 35698), (200, 35719), (204, 35728), (212, 35764), (213, 35767),

Gene: DillTech15_46 Start: 34346, Stop: 35350, Start Num: 25

Candidate Starts for DillTech15_46:

(Start: 25 @34346 has 70 MA's), (44, 34514), (47, 34535), (50, 34547), (67, 34613), (69, 34622), (73, 34658), (95, 34724), (105, 34763), (106, 34766), (108, 34787), (111, 34802), (115, 34823), (117, 34844), (119, 34856), (120, 34859), (135, 34943), (142, 34994), (144, 35000), (152, 35051), (154, 35069), (159, 35090), (168, 35123), (170, 35141), (179, 35183), (186, 35210), (195, 35267), (204, 35297), (212, 35333), (213, 35336),

Gene: Dolores_48 Start: 34386, Stop: 35135, Start Num: 54

Candidate Starts for Dolores_48:

(3, 33747), (4, 33801), (5, 33834), (8, 33873), (10, 33894), (11, 33927), (13, 33939), (18, 34062), (19, 34083), (30, 34230), (Start: 54 @34386 has 9 MA's), (63, 34416), (67, 34443), (69, 34452), (99, 34569), (105, 34596), (108, 34620), (111, 34635), (116, 34665), (128, 34755), (130, 34758), (174, 34980),

Gene: Donkeykong_46 Start: 35576, Stop: 36355, Start Num: 48

Candidate Starts for Donkeykong_46:

(Start: 42 @35546 has 1 MA's), (Start: 48 @35576 has 12 MA's), (62, 35600), (63, 35603), (69, 35639), (Start: 70 @35642 has 1 MA's), (74, 35687), (107, 35795), (108, 35810), (119, 35879), (124, 35927), (151, 36044), (156, 36095), (175, 36191), (195, 36296), (196, 36302), (207, 36344), (208, 36350),

Gene: Doomphist_47 Start: 36071, Stop: 37075, Start Num: 25

Candidate Starts for Doomphist_47:

(Start: 25 @36071 has 70 MA's), (47, 36260), (50, 36272), (67, 36338), (69, 36347), (73, 36383), (95, 36449), (97, 36461), (105, 36488), (108, 36512), (111, 36527), (115, 36548), (117, 36569), (119, 36581), (120, 36584), (135, 36668), (141, 36713), (142, 36719), (150, 36749), (152, 36776), (154, 36794), (159, 36815), (168, 36848), (179, 36908), (186, 36935), (191, 36974), (195, 36992), (200, 37013), (204, 37022), (212, 37058), (214, 37067),

Gene: Doomslug_55 Start: 35048, Stop: 36052, Start Num: 25

Candidate Starts for Doomslug_55:

(Start: 25 @35048 has 70 MA's), (44, 35216), (47, 35237), (50, 35249), (Start: 61 @35282 has 2 MA's), (65, 35297), (67, 35315), (69, 35324), (73, 35360), (88, 35408), (95, 35426), (97, 35438), (105, 35465), (108, 35489), (110, 35501), (111, 35504), (115, 35525), (117, 35546), (119, 35558), (120, 35561), (135, 35645), (141, 35690), (142, 35696), (150, 35726), (152, 35753), (154, 35771), (159, 35792), (168, 35825), (170, 35843), (179, 35885), (195, 35969), (200, 35990), (212, 36035), (214, 36044),

Gene: Dori_51 Start: 44920, Stop: 45693, Start Num: 48

Candidate Starts for Dori_51:

(Start: 48 @44920 has 12 MA's), (62, 44941), (69, 44980), (Start: 70 @44983 has 1 MA's), (105, 45124), (107, 45133), (108, 45148), (119, 45217), (124, 45265), (151, 45382), (156, 45433), (175, 45529), (195, 45634), (196, 45640), (207, 45682), (208, 45688),

Gene: Dorothy_44 Start: 34870, Stop: 35874, Start Num: 25

Candidate Starts for Dorothy_44:

(Start: 25 @34870 has 70 MA's), (47, 35059), (50, 35071), (67, 35137), (69, 35146), (73, 35182), (95, 35248), (97, 35260), (105, 35287), (108, 35311), (111, 35326), (115, 35347), (117, 35368), (119, 35380), (120, 35383), (135, 35467), (141, 35512), (142, 35518), (150, 35548), (152, 35575), (154, 35593), (159, 35614), (168, 35647), (179, 35707), (186, 35734), (191, 35773), (195, 35791), (200, 35812), (204, 35821), (212, 35857), (214, 35866),

Gene: DosHalletts_47 Start: 34853, Stop: 35650, Start Num: 48

Candidate Starts for DosHalletts_47:

(Start: 48 @34853 has 12 MA's), (63, 34895), (69, 34931), (Start: 70 @34934 has 1 MA's), (78, 34988), (107, 35090), (108, 35105), (119, 35174), (124, 35222), (151, 35339), (156, 35390), (175, 35486), (195, 35591), (196, 35597), (207, 35639), (208, 35645),

Gene: DotProduct_44 Start: 34531, Stop: 35535, Start Num: 25

Candidate Starts for DotProduct_44:

(Start: 25 @34531 has 70 MA's), (47, 34720), (50, 34732), (67, 34798), (69, 34807), (73, 34843), (95, 34909), (97, 34921), (105, 34948), (108, 34972), (111, 34987), (115, 35008), (117, 35029), (119, 35041), (120, 35044), (135, 35128), (141, 35173), (142, 35179), (150, 35209), (152, 35236), (154, 35254), (159, 35275), (168, 35308), (170, 35326), (179, 35368), (186, 35395), (191, 35434), (195, 35452), (200, 35473), (204, 35482), (212, 35518), (214, 35527),

Gene: Doucette_35 Start: 25113, Stop: 25916, Start Num: 56

Candidate Starts for Doucette_35:

(Start: 56 @25113 has 4 MA's), (86, 25236), (87, 25239), (98, 25278), (105, 25305), (108, 25329), (115, 25365), (118, 25392), (122, 25425), (123, 25452), (132, 25482), (137, 25503), (140, 25545), (151, 25587), (153, 25620), (157, 25638), (162, 25665), (193, 25824), (205, 25872), (213, 25905),

Gene: E1_33 Start: 24569, Stop: 25372, Start Num: 60

Candidate Starts for E1_33:

(Start: 60 @24569 has 3 MA's), (86, 24692), (87, 24695), (98, 24734), (105, 24761), (108, 24785), (115, 24821), (118, 24848), (122, 24881), (123, 24908), (129, 24929), (132, 24938), (136, 24956), (137, 24959), (140, 25001), (148, 25031), (151, 25043), (153, 25076), (162, 25121), (181, 25211), (192, 25277), (193, 25280), (205, 25328), (213, 25361),

Gene: E6_36 Start: 26500, Stop: 27273, Start Num: 60

Candidate Starts for E6_36:

(Start: 60 @26500 has 3 MA's), (68, 26542), (73, 26584), (75, 26593), (101, 26680), (105, 26689), (113, 26728), (121, 26761), (122, 26782), (123, 26809), (132, 26839), (137, 26860), (140, 26902), (148, 26932), (151, 26944), (153, 26977), (157, 26995), (162, 27022), (193, 27181), (205, 27229), (213, 27262),

Gene: Easley_43 Start: 32655, Stop: 33410, Start Num: 54

Candidate Starts for Easley_43:

(Start: 54 @32655 has 9 MA's), (63, 32685), (67, 32712), (69, 32721), (92, 32820), (105, 32865), (107, 32874), (108, 32889), (109, 32898), (135, 33060), (154, 33171), (155, 33174), (174, 33255),

Gene: Eish_48 Start: 35416, Stop: 36417, Start Num: 25

Candidate Starts for Eish_48:

(Start: 25 @35416 has 70 MA's), (44, 35584), (47, 35605), (50, 35617), (67, 35683), (69, 35692), (73, 35728), (95, 35794), (105, 35833), (106, 35836), (110, 35869), (111, 35872), (115, 35893), (117, 35914), (119, 35926), (120, 35929), (135, 36010), (141, 36055), (142, 36061), (150, 36091), (152, 36118), (154, 36136), (155, 36139), (159, 36157), (168, 36190), (170, 36208), (179, 36250), (191,

36316), (200, 36355), (212, 36400),

Gene: Emmaloid_48 Start: 36261, Stop: 37265, Start Num: 25

Candidate Starts for Emmaloid_48:

(Start: 25 @36261 has 70 MA's), (47, 36450), (50, 36462), (67, 36528), (69, 36537), (73, 36573), (95, 36639), (97, 36651), (105, 36678), (108, 36702), (111, 36717), (115, 36738), (117, 36759), (119, 36771), (120, 36774), (135, 36858), (141, 36903), (142, 36909), (150, 36939), (152, 36966), (154, 36984), (159, 37005), (168, 37038), (170, 37056), (179, 37098), (186, 37125), (191, 37164), (195, 37182), (200, 37203), (204, 37212), (212, 37248), (214, 37257),

Gene: Estave1_48 Start: 34820, Stop: 35824, Start Num: 25

Candidate Starts for Estave1_48:

(Start: 25 @34820 has 70 MA's), (44, 34988), (47, 35009), (50, 35021), (Start: 61 @35054 has 2 MA's), (65, 35069), (67, 35087), (69, 35096), (73, 35132), (88, 35180), (95, 35198), (97, 35210), (105, 35237), (108, 35261), (110, 35273), (111, 35276), (115, 35297), (117, 35318), (119, 35330), (120, 35333), (133, 35405), (135, 35417), (141, 35462), (142, 35468), (150, 35498), (152, 35525), (154, 35543), (155, 35546), (159, 35564), (168, 35597), (170, 35615), (179, 35657), (191, 35723), (195, 35741), (200, 35762), (212, 35807),

Gene: Faith5x5_37 Start: 28702, Stop: 29454, Start Num: 54

Candidate Starts for Faith5x5_37:

(43, 28657), (Start: 54 @28702 has 9 MA's), (62, 28729), (74, 28816), (78, 28825), (105, 28915), (107, 28924), (108, 28939), (110, 28951), (128, 29074), (130, 29077), (152, 29197), (174, 29299),

Gene: Fastidio_49 Start: 34493, Stop: 35497, Start Num: 25

Candidate Starts for Fastidio_49:

(Start: 25 @34493 has 70 MA's), (47, 34682), (50, 34694), (67, 34760), (69, 34769), (73, 34805), (95, 34871), (97, 34883), (105, 34910), (108, 34934), (111, 34949), (115, 34970), (117, 34991), (119, 35003), (120, 35006), (135, 35090), (142, 35141), (144, 35147), (152, 35198), (154, 35216), (159, 35237), (168, 35270), (170, 35288), (179, 35330), (186, 35357), (195, 35414), (204, 35444), (212, 35480), (213, 35483),

Gene: Fenry_43 Start: 34202, Stop: 34963, Start Num: 57

Candidate Starts for Fenry_43:

(26, 33998), (40, 34127), (Start: 57 @34202 has 18 MA's), (63, 34217), (80, 34316), (86, 34328), (99, 34370), (105, 34397), (119, 34490), (135, 34586), (152, 34676), (166, 34742), (190, 34868),

Gene: Filuzino_45 Start: 34250, Stop: 35254, Start Num: 25

Candidate Starts for Filuzino_45:

(Start: 25 @34250 has 70 MA's), (44, 34418), (47, 34439), (50, 34451), (Start: 61 @34484 has 2 MA's), (65, 34499), (67, 34517), (69, 34526), (73, 34562), (88, 34610), (95, 34628), (97, 34640), (105, 34667), (108, 34691), (110, 34703), (111, 34706), (115, 34727), (117, 34748), (119, 34760), (120, 34763), (135, 34847), (142, 34898), (152, 34955), (154, 34973), (159, 34994), (168, 35027), (170, 35045), (179, 35087), (186, 35114), (195, 35171), (204, 35201), (212, 35237), (213, 35240),

Gene: Firehouse51_47 Start: 36491, Stop: 37288, Start Num: 48

Candidate Starts for Firehouse51_47:

(Start: 48 @36491 has 12 MA's), (63, 36533), (69, 36569), (Start: 70 @36572 has 1 MA's), (78, 36626), (107, 36728), (108, 36743), (119, 36812), (124, 36860), (151, 36977), (156, 37028), (175, 37124), (195, 37229), (196, 37235), (207, 37277), (208, 37283),

Gene: Florinda_57 Start: 36157, Stop: 36951, Start Num: 48

Candidate Starts for Florinda_57:

(Start: 48 @36157 has 12 MA's), (63, 36199), (69, 36235), (Start: 70 @36238 has 1 MA's), (73, 36274), (94, 36334), (107, 36391), (108, 36406), (119, 36475), (124, 36523), (151, 36640), (156, 36691), (175, 36787), (195, 36892), (196, 36898), (207, 36940), (208, 36946),

Gene: Frankie_51 Start: 36473, Stop: 37477, Start Num: 25

Candidate Starts for Frankie_51:

(Start: 25 @36473 has 70 MA's), (44, 36641), (47, 36662), (50, 36674), (Start: 61 @36707 has 2 MA's), (65, 36722), (67, 36740), (69, 36749), (73, 36785), (88, 36833), (95, 36851), (97, 36863), (105, 36890), (108, 36914), (110, 36926), (111, 36929), (115, 36950), (117, 36971), (119, 36983), (120, 36986), (133, 37058), (135, 37070), (136, 37073), (141, 37115), (142, 37121), (150, 37151), (152, 37178), (159, 37217), (168, 37250), (170, 37268), (179, 37310), (186, 37337), (191, 37376), (195, 37394), (200, 37415), (204, 37424), (212, 37460), (214, 37469),

Gene: Fruitloop_46 Start: 36116, Stop: 37120, Start Num: 25

Candidate Starts for Fruitloop_46:

(Start: 25 @36116 has 70 MA's), (44, 36284), (47, 36305), (50, 36317), (Start: 61 @36350 has 2 MA's), (65, 36365), (67, 36383), (69, 36392), (73, 36428), (88, 36476), (95, 36494), (97, 36506), (105, 36533), (108, 36557), (110, 36569), (111, 36572), (115, 36593), (117, 36614), (119, 36626), (120, 36629), (133, 36701), (135, 36713), (142, 36764), (144, 36770), (152, 36821), (154, 36839), (159, 36860), (168, 36893), (170, 36911), (179, 36953), (186, 36980), (195, 37037), (204, 37067), (212, 37103), (213, 37106),

Gene: G4_33 Start: 24732, Stop: 25535, Start Num: 56

Candidate Starts for G4_33:

(Start: 56 @24732 has 4 MA's), (86, 24855), (87, 24858), (98, 24897), (105, 24924), (108, 24948), (115, 24984), (118, 25011), (122, 25044), (123, 25071), (129, 25092), (132, 25101), (133, 25104), (136, 25119), (137, 25122), (140, 25164), (148, 25194), (151, 25206), (153, 25239), (162, 25284), (181, 25374), (193, 25443), (205, 25491), (213, 25524),

Gene: GUmbie_45 Start: 34760, Stop: 35764, Start Num: 25

Candidate Starts for GUmbie_45:

(Start: 25 @34760 has 70 MA's), (47, 34949), (50, 34961), (67, 35027), (69, 35036), (73, 35072), (95, 35138), (97, 35150), (105, 35177), (108, 35201), (111, 35216), (115, 35237), (117, 35258), (119, 35270), (120, 35273), (135, 35357), (141, 35402), (142, 35408), (150, 35438), (152, 35465), (154, 35483), (159, 35504), (168, 35537), (179, 35597), (186, 35624), (191, 35663), (195, 35681), (200, 35702), (204, 35711), (212, 35747), (214, 35756),

Gene: Gallia_8 Start: 3136, Stop: 3990, Start Num: 36

Candidate Starts for Gallia_8:

(36, 3136), (37, 3139), (50, 3184), (73, 3289), (74, 3298), (105, 3394), (109, 3427), (119, 3487), (148, 3655), (152, 3691), (160, 3733), (172, 3808), (187, 3868), (199, 3943),

Gene: Gambino_49 Start: 35195, Stop: 35956, Start Num: 57

Candidate Starts for Gambino_49:

(Start: 57 @35195 has 18 MA's), (63, 35210), (82, 35312), (92, 35345), (105, 35390), (107, 35399), (108, 35414), (119, 35483), (135, 35579), (152, 35669), (190, 35861),

Gene: GigiOuiOui_44 Start: 34673, Stop: 35677, Start Num: 25

Candidate Starts for GigiOuiOui_44:

(Start: 25 @34673 has 70 MA's), (47, 34862), (50, 34874), (67, 34940), (69, 34949), (73, 34985), (95, 35051), (97, 35063), (105, 35090), (108, 35114), (111, 35129), (115, 35150), (117, 35171), (119, 35183), (120, 35186), (135, 35270), (141, 35315), (142, 35321), (150, 35351), (152, 35378), (154, 35396), (159, 35417), (168, 35450), (179, 35510), (186, 35537), (191, 35576), (195, 35594), (200,

35615), (204, 35624), (212, 35660), (214, 35669),

Gene: Girafales_56 Start: 35966, Stop: 36760, Start Num: 48

Candidate Starts for Girafales_56:

(Start: 48 @35966 has 12 MA's), (63, 36008), (69, 36044), (Start: 70 @36047 has 1 MA's), (74, 36092), (107, 36200), (108, 36215), (109, 36224), (119, 36284), (124, 36332), (151, 36449), (156, 36500), (175, 36596), (195, 36701), (196, 36707), (207, 36749), (208, 36755),

Gene: Girr_48 Start: 35732, Stop: 36736, Start Num: 25

Candidate Starts for Girr_48:

(Start: 25 @35732 has 70 MA's), (47, 35921), (50, 35933), (67, 35999), (69, 36008), (73, 36044), (95, 36110), (97, 36122), (105, 36149), (108, 36173), (111, 36188), (115, 36209), (117, 36230), (119, 36242), (120, 36245), (135, 36329), (141, 36374), (142, 36380), (150, 36410), (152, 36437), (154, 36455), (159, 36476), (168, 36509), (179, 36569), (186, 36596), (191, 36635), (195, 36653), (200, 36674), (204, 36683), (212, 36719), (214, 36728),

Gene: Grimmer_57 Start: 37247, Stop: 38248, Start Num: 25

Candidate Starts for Grimmer_57:

(Start: 25 @37247 has 70 MA's), (47, 37436), (50, 37448), (65, 37496), (67, 37514), (69, 37523), (73, 37559), (95, 37625), (97, 37637), (105, 37664), (108, 37688), (111, 37703), (115, 37724), (117, 37745), (119, 37757), (120, 37760), (135, 37841), (141, 37886), (142, 37892), (152, 37949), (154, 37967), (159, 37988), (168, 38021), (170, 38039), (179, 38081), (186, 38108), (191, 38147), (195, 38165), (200, 38186), (212, 38231), (213, 38234),

Gene: Hamulus_48 Start: 36115, Stop: 37119, Start Num: 25

Candidate Starts for Hamulus_48:

(Start: 25 @36115 has 70 MA's), (47, 36304), (50, 36316), (67, 36382), (69, 36391), (73, 36427), (95, 36493), (97, 36505), (105, 36532), (108, 36556), (111, 36571), (115, 36592), (117, 36613), (119, 36625), (120, 36628), (135, 36712), (141, 36757), (142, 36763), (150, 36793), (152, 36820), (154, 36838), (159, 36859), (168, 36892), (179, 36952), (186, 36979), (191, 37018), (195, 37036), (200, 37057), (204, 37066), (212, 37102), (214, 37111),

Gene: Harley_50 Start: 35468, Stop: 36472, Start Num: 25

Candidate Starts for Harley_50:

(Start: 25 @35468 has 70 MA's), (47, 35657), (50, 35669), (67, 35735), (69, 35744), (73, 35780), (95, 35846), (97, 35858), (105, 35885), (108, 35909), (111, 35924), (115, 35945), (117, 35966), (119, 35978), (120, 35981), (135, 36065), (141, 36110), (142, 36116), (150, 36146), (152, 36173), (154, 36191), (159, 36212), (168, 36245), (179, 36305), (191, 36371), (195, 36389), (200, 36410), (204, 36419), (212, 36455), (214, 36464),

Gene: InLimbo_43 Start: 30497, Stop: 31246, Start Num: 54

Candidate Starts for InLimbo_43:

(Start: 54 @30497 has 9 MA's), (62, 30524), (63, 30527), (Start: 70 @30566 has 1 MA's), (74, 30611), (93, 30662), (99, 30680), (108, 30731), (130, 30869), (139, 30920), (174, 31091),

Gene: Jalammah_48 Start: 35515, Stop: 36279, Start Num: 57

Candidate Starts for Jalammah_48:

(26, 35311), (40, 35440), (Start: 57 @35515 has 18 MA's), (74, 35614), (79, 35626), (102, 35704), (106, 35716), (108, 35737), (109, 35746), (119, 35806), (135, 35902), (152, 35992), (190, 36184),

Gene: Jant_52 Start: 37127, Stop: 38131, Start Num: 25

Candidate Starts for Jant_52:

(Start: 25 @37127 has 70 MA's), (44, 37295), (47, 37316), (50, 37328), (Start: 61 @37361 has 2 MA's), (65, 37376), (67, 37394), (69, 37403), (73, 37439), (88, 37487), (95, 37505), (97, 37517), (105, 37544), (108, 37568), (110, 37580), (111, 37583), (115, 37604), (117, 37625), (119, 37637), (120, 37640), (135, 37724), (141, 37769), (142, 37775), (152, 37832), (154, 37850), (159, 37871), (168, 37904), (170, 37922), (179, 37964), (186, 37991), (195, 38048), (204, 38078), (212, 38114), (213, 38117),

Gene: Jennelsea_44 Start: 32861, Stop: 33640, Start Num: 48

Candidate Starts for Jennelsea_44:

(Start: 42 @32831 has 1 MA's), (Start: 48 @32861 has 12 MA's), (62, 32885), (63, 32888), (69, 32924), (Start: 70 @32927 has 1 MA's), (74, 32972), (107, 33080), (108, 33095), (119, 33164), (124, 33212), (151, 33329), (156, 33380), (175, 33476), (195, 33581), (196, 33587), (207, 33629), (208, 33635),

Gene: Job42_48 Start: 36721, Stop: 37725, Start Num: 25

Candidate Starts for Job42_48:

(Start: 25 @36721 has 70 MA's), (47, 36910), (50, 36922), (67, 36988), (69, 36997), (73, 37033), (95, 37099), (97, 37111), (105, 37138), (108, 37162), (111, 37177), (115, 37198), (117, 37219), (119, 37231), (120, 37234), (135, 37318), (141, 37363), (142, 37369), (150, 37399), (152, 37426), (154, 37444), (159, 37465), (168, 37498), (179, 37558), (186, 37585), (191, 37624), (195, 37642), (200, 37663), (204, 37672), (212, 37708), (214, 37717),

Gene: KappaFarmDelta_46 Start: 33140, Stop: 33901, Start Num: 57

Candidate Starts for KappaFarmDelta_46:

(26, 32939), (40, 33065), (Start: 57 @33140 has 18 MA's), (63, 33155), (80, 33254), (86, 33266), (99, 33308), (105, 33335), (117, 33416), (119, 33428), (135, 33524), (152, 33614), (166, 33680), (190, 33806),

Gene: Karhdo_46 Start: 35555, Stop: 36559, Start Num: 25

Candidate Starts for Karhdo_46:

(Start: 25 @35555 has 70 MA's), (47, 35744), (50, 35756), (67, 35822), (69, 35831), (73, 35867), (95, 35933), (97, 35945), (105, 35972), (108, 35996), (111, 36011), (115, 36032), (117, 36053), (119, 36065), (120, 36068), (135, 36152), (141, 36197), (142, 36203), (150, 36233), (152, 36260), (154, 36278), (159, 36299), (168, 36332), (179, 36392), (186, 36419), (191, 36458), (195, 36476), (200, 36497), (204, 36506), (212, 36542), (214, 36551),

Gene: Krakatau_45 Start: 35226, Stop: 36230, Start Num: 25

Candidate Starts for Krakatau_45:

(1, 34731), (2, 34782), (6, 34905), (7, 34911), (9, 34926), (12, 34980), (15, 35052), (16, 35061), (Start: 25 @35226 has 70 MA's), (47, 35415), (50, 35427), (67, 35493), (69, 35502), (73, 35538), (95, 35604), (97, 35616), (105, 35643), (108, 35667), (111, 35682), (115, 35703), (117, 35724), (119, 35736), (120, 35739), (135, 35823), (141, 35868), (142, 35874), (144, 35880), (150, 35904), (152, 35931), (154, 35949), (159, 35970), (168, 36003), (179, 36063), (186, 36090), (191, 36129), (195, 36147), (200, 36168), (204, 36177), (212, 36213), (214, 36222),

Gene: KristaRAM_47 Start: 36438, Stop: 37442, Start Num: 25

Candidate Starts for KristaRAM_47:

(Start: 25 @36438 has 70 MA's), (44, 36606), (47, 36627), (50, 36639), (Start: 61 @36672 has 2 MA's), (65, 36687), (67, 36705), (69, 36714), (73, 36750), (88, 36798), (95, 36816), (97, 36828), (105, 36855), (108, 36879), (110, 36891), (111, 36894), (115, 36915), (117, 36936), (119, 36948), (120, 36951), (135, 37035), (141, 37080), (142, 37086), (150, 37116), (152, 37143), (154, 37161), (159, 37182), (168, 37215), (170, 37233), (179, 37275), (186, 37302), (195, 37359), (204, 37389), (212, 37425), (213, 37428),

Gene: Kuwabara_52 Start: 36557, Stop: 37444, Start Num: 35

Candidate Starts for Kuwabara_52:

(30, 36500), (32, 36503), (Start: 35 @36557 has 1 MA's), (46, 36629), (51, 36644), (59, 36671), (66, 36695), (105, 36854), (108, 36878), (128, 37013), (134, 37037), (145, 37109), (151, 37130), (156, 37181), (192, 37367), (193, 37370),

Gene: LastJedi_41 Start: 31571, Stop: 32380, Start Num: 42

Candidate Starts for LastJedi_41:

(Start: 42 @31571 has 1 MA's), (Start: 48 @31601 has 12 MA's), (62, 31625), (63, 31628), (69, 31664), (Start: 70 @31667 has 1 MA's), (74, 31712), (107, 31820), (108, 31835), (119, 31904), (124, 31952), (151, 32069), (156, 32120), (175, 32216), (195, 32321), (196, 32327), (207, 32369), (208, 32375),

Gene: Latretium_50 Start: 36344, Stop: 37345, Start Num: 25

Candidate Starts for Latretium_50:

(Start: 25 @36344 has 70 MA's), (44, 36512), (47, 36533), (50, 36545), (67, 36611), (69, 36620), (73, 36656), (95, 36722), (96, 36728), (97, 36734), (105, 36761), (110, 36797), (111, 36800), (115, 36821), (117, 36842), (119, 36854), (120, 36857), (135, 36938), (141, 36983), (142, 36989), (144, 36995), (150, 37019), (152, 37046), (154, 37064), (159, 37085), (168, 37118), (170, 37136), (179, 37178), (191, 37244), (195, 37262), (200, 37283), (212, 37328),

Gene: LilMoolah_46 Start: 35122, Stop: 36126, Start Num: 25

Candidate Starts for LilMoolah_46:

(17, 34966), (Start: 25 @35122 has 70 MA's), (50, 35323), (67, 35389), (69, 35398), (73, 35434), (95, 35500), (96, 35506), (97, 35512), (105, 35539), (110, 35575), (111, 35578), (115, 35599), (117, 35620), (119, 35632), (120, 35635), (135, 35719), (141, 35764), (142, 35770), (144, 35776), (150, 35800), (152, 35827), (154, 35845), (159, 35866), (168, 35899), (179, 35959), (186, 35986), (191, 36025), (195, 36043), (200, 36064), (212, 36109), (214, 36118),

Gene: LittleShirley_47 Start: 36153, Stop: 37157, Start Num: 25

Candidate Starts for LittleShirley_47:

(Start: 25 @36153 has 70 MA's), (44, 36321), (47, 36342), (50, 36354), (67, 36420), (69, 36429), (73, 36465), (95, 36531), (105, 36570), (106, 36573), (108, 36594), (111, 36609), (115, 36630), (117, 36651), (119, 36663), (120, 36666), (135, 36750), (141, 36795), (142, 36801), (150, 36831), (152, 36858), (154, 36876), (159, 36897), (168, 36930), (170, 36948), (179, 36990), (186, 37017), (191, 37056), (195, 37074), (200, 37095), (204, 37104), (212, 37140), (214, 37149),

Gene: LordVader_44 Start: 30174, Stop: 30983, Start Num: 42

Candidate Starts for LordVader_44:

(Start: 42 @30174 has 1 MA's), (Start: 48 @30204 has 12 MA's), (62, 30228), (63, 30231), (69, 30267), (Start: 70 @30270 has 1 MA's), (74, 30315), (107, 30423), (108, 30438), (119, 30507), (124, 30555), (151, 30672), (156, 30723), (175, 30819), (195, 30924), (196, 30930), (207, 30972), (208, 30978),

Gene: MadMen_42 Start: 34172, Stop: 35179, Start Num: 25

Candidate Starts for MadMen_42:

(1, 33677), (2, 33728), (6, 33851), (7, 33857), (9, 33872), (12, 33926), (15, 33998), (16, 34007), (Start: 25 @34172 has 70 MA's), (47, 34364), (50, 34376), (67, 34442), (69, 34451), (73, 34487), (95, 34553), (97, 34565), (105, 34592), (108, 34616), (111, 34631), (115, 34652), (117, 34673), (119, 34685), (120, 34688), (135, 34772), (141, 34817), (142, 34823), (144, 34829), (150, 34853), (152, 34880), (154, 34898), (159, 34919), (168, 34952), (179, 35012), (186, 35039), (191, 35078), (195, 35096), (200, 35117), (204, 35126), (212, 35162), (214, 35171),

Gene: Madavieve_43 Start: 34739, Stop: 35503, Start Num: 54

Candidate Starts for Madavieve_43:

(Start: 54 @34739 has 9 MA's), (62, 34766), (63, 34769), (67, 34796), (69, 34805), (81, 34868), (85, 34880), (98, 34922), (105, 34949), (119, 35042), (125, 35096), (145, 35189), (151, 35210), (152, 35234), (154, 35252), (159, 35273), (160, 35276), (161, 35279), (167, 35303), (173, 35354), (174, 35357), (188, 35417), (194, 35453), (198, 35474),

Gene: Madiba_43 Start: 33464, Stop: 34468, Start Num: 25

Candidate Starts for Madiba_43:

(Start: 25 @33464 has 70 MA's), (47, 33653), (50, 33665), (67, 33731), (69, 33740), (73, 33776), (95, 33842), (97, 33854), (105, 33881), (108, 33905), (111, 33920), (115, 33941), (117, 33962), (119, 33974), (120, 33977), (135, 34061), (141, 34106), (142, 34112), (150, 34142), (152, 34169), (154, 34187), (159, 34208), (168, 34241), (179, 34301), (186, 34328), (191, 34367), (195, 34385), (200, 34406), (204, 34415), (212, 34451), (214, 34460),

Gene: Malachai_44 Start: 35305, Stop: 36069, Start Num: 57

Candidate Starts for Malachai_44:

(23, 35065), (29, 35119), (33, 35164), (40, 35230), (Start: 57 @35305 has 18 MA's), (63, 35320), (Start: 70 @35359 has 1 MA's), (79, 35416), (102, 35494), (106, 35506), (108, 35527), (119, 35596), (135, 35692), (152, 35782), (190, 35974),

Gene: Mantra_44 Start: 34639, Stop: 35643, Start Num: 25

Candidate Starts for Mantra_44:

(Start: 25 @34639 has 70 MA's), (47, 34828), (50, 34840), (67, 34906), (69, 34915), (73, 34951), (95, 35017), (97, 35029), (105, 35056), (108, 35080), (111, 35095), (115, 35116), (117, 35137), (119, 35149), (120, 35152), (135, 35236), (141, 35281), (142, 35287), (150, 35317), (152, 35344), (154, 35362), (159, 35383), (168, 35416), (179, 35476), (186, 35503), (191, 35542), (195, 35560), (200, 35581), (204, 35590), (212, 35626), (214, 35635),

Gene: Marker_48 Start: 35024, Stop: 36025, Start Num: 25

Candidate Starts for Marker_48:

(Start: 25 @35024 has 70 MA's), (44, 35192), (47, 35213), (50, 35225), (67, 35291), (69, 35300), (73, 35336), (95, 35402), (105, 35441), (106, 35444), (110, 35477), (111, 35480), (115, 35501), (117, 35522), (119, 35534), (120, 35537), (135, 35618), (141, 35663), (142, 35669), (150, 35699), (152, 35726), (154, 35744), (155, 35747), (159, 35765), (168, 35798), (170, 35816), (179, 35858), (186, 35885), (191, 35924), (195, 35942), (200, 35963), (204, 35972), (212, 36008), (214, 36017),

Gene: Mellie_43 Start: 33024, Stop: 33788, Start Num: 57

Candidate Starts for Mellie_43:

(20, 32739), (29, 32838), (40, 32949), (Start: 57 @33024 has 18 MA's), (74, 33123), (107, 33231), (108, 33246), (119, 33315), (135, 33411), (152, 33501), (154, 33519), (190, 33693),

Gene: MissRona_47 Start: 35196, Stop: 35957, Start Num: 57

Candidate Starts for MissRona_47:

(Start: 57 @35196 has 18 MA's), (63, 35211), (82, 35313), (92, 35346), (105, 35391), (107, 35400), (108, 35415), (119, 35484), (135, 35580), (152, 35670), (190, 35862),

Gene: MisterCuddles_47 Start: 35732, Stop: 36736, Start Num: 25

Candidate Starts for MisterCuddles_47:

(Start: 25 @35732 has 70 MA's), (47, 35921), (50, 35933), (67, 35999), (69, 36008), (73, 36044), (95, 36110), (97, 36122), (105, 36149), (108, 36173), (111, 36188), (115, 36209), (117, 36230), (119, 36242), (120, 36245), (135, 36329), (141, 36374), (142, 36380), (150, 36410), (152, 36437), (154, 36455), (159, 36476), (168, 36509), (179, 36569), (186, 36596), (191, 36635), (195, 36653), (200, 36674), (204, 36683), (212, 36719), (214, 36728),

Gene: MortyNRick_52 Start: 37928, Stop: 38608, Start Num: 70

Candidate Starts for MortyNRick_52:

(Start: 54 @37859 has 9 MA's), (69, 37925), (Start: 70 @37928 has 1 MA's), (74, 37973), (93, 38024), (99, 38042), (108, 38093), (130, 38231), (147, 38309), (174, 38453), (195, 38546),

Gene: Murp_47 Start: 36766, Stop: 37527, Start Num: 57

Candidate Starts for Murp_47:

(40, 36691), (Start: 57 @36766 has 18 MA's), (63, 36781), (80, 36880), (86, 36892), (99, 36934), (105, 36961), (117, 37042), (119, 37054), (135, 37150), (152, 37240), (166, 37306), (190, 37432),

Gene: Mwanjiwa_53 Start: 36107, Stop: 37108, Start Num: 25

Candidate Starts for Mwanjiwa_53:

(Start: 25 @36107 has 70 MA's), (44, 36275), (47, 36296), (50, 36308), (67, 36374), (69, 36383), (73, 36419), (95, 36485), (96, 36491), (97, 36497), (105, 36524), (110, 36560), (111, 36563), (115, 36584), (117, 36605), (119, 36617), (120, 36620), (135, 36701), (141, 36746), (142, 36752), (150, 36782), (152, 36809), (154, 36827), (159, 36848), (168, 36881), (170, 36899), (179, 36941), (191, 37007), (195, 37025), (200, 37046), (212, 37091),

Gene: Nazo_38 Start: 30066, Stop: 30869, Start Num: 45

Candidate Starts for Nazo_38:

(Start: 45 @30066 has 4 MA's), (Start: 70 @30168 has 1 MA's), (73, 30204), (119, 30396), (135, 30492), (151, 30576), (160, 30642), (161, 30645), (167, 30669), (174, 30723), (185, 30762), (188, 30783), (189, 30786), (203, 30855),

Gene: Nivrat_45 Start: 34995, Stop: 35999, Start Num: 25

Candidate Starts for Nivrat_45:

(17, 34839), (Start: 25 @34995 has 70 MA's), (50, 35196), (67, 35262), (69, 35271), (73, 35307), (95, 35373), (96, 35379), (97, 35385), (105, 35412), (110, 35448), (111, 35451), (115, 35472), (117, 35493), (119, 35505), (120, 35508), (135, 35592), (141, 35637), (142, 35643), (144, 35649), (150, 35673), (152, 35700), (154, 35718), (159, 35739), (168, 35772), (179, 35832), (186, 35859), (191, 35898), (195, 35916), (200, 35937), (212, 35982), (214, 35991),

Gene: Ogopogo_48 Start: 34646, Stop: 35650, Start Num: 25

Candidate Starts for Ogopogo_48:

(Start: 25 @34646 has 70 MA's), (44, 34814), (47, 34835), (50, 34847), (67, 34913), (69, 34922), (73, 34958), (95, 35024), (105, 35063), (106, 35066), (108, 35087), (111, 35102), (115, 35123), (117, 35144), (119, 35156), (120, 35159), (135, 35243), (142, 35294), (144, 35300), (152, 35351), (154, 35369), (159, 35390), (168, 35423), (170, 35441), (179, 35483), (186, 35510), (195, 35567), (204, 35597), (212, 35633), (213, 35636),

Gene: Okabe_43 Start: 30988, Stop: 31992, Start Num: 25

Candidate Starts for Okabe_43:

(Start: 25 @30988 has 70 MA's), (44, 31156), (47, 31177), (50, 31189), (Start: 61 @31222 has 2 MA's), (65, 31237), (67, 31255), (69, 31264), (73, 31300), (88, 31348), (95, 31366), (97, 31378), (105, 31405), (108, 31429), (110, 31441), (111, 31444), (115, 31465), (117, 31486), (119, 31498), (120, 31501), (133, 31573), (135, 31585), (142, 31636), (152, 31693), (154, 31711), (159, 31732), (168, 31765), (170, 31783), (179, 31825), (191, 31891), (195, 31909), (200, 31930), (212, 31975), (214, 31984),

Gene: Oregano_48 Start: 33939, Stop: 34688, Start Num: 54

Candidate Starts for Oregano_48:

(31, 33786), (43, 33894), (Start: 54 @33939 has 9 MA's), (63, 33969), (67, 33996), (69, 34005), (99, 34122), (105, 34149), (108, 34173), (111, 34188), (116, 34218), (128, 34308), (130, 34311), (174, 34533),

Gene: P1201_08 Start: 2597, Stop: 3520, Start Num: 36

Candidate Starts for P1201_08:

(36, 2597), (37, 2600), (41, 2642), (50, 2690), (69, 2765), (73, 2804), (76, 2816), (98, 2882), (105, 2924), (109, 2957), (119, 3017), (148, 3185), (160, 3263), (187, 3398), (199, 3473), (209, 3509), (210, 3512),

Gene: PMC_42 Start: 34542, Stop: 35546, Start Num: 25

Candidate Starts for PMC_42:

(Start: 25 @34542 has 70 MA's), (47, 34731), (50, 34743), (67, 34809), (69, 34818), (73, 34854), (95, 34920), (97, 34932), (105, 34959), (108, 34983), (111, 34998), (115, 35019), (117, 35040), (119, 35052), (120, 35055), (135, 35139), (141, 35184), (142, 35190), (150, 35220), (152, 35247), (154, 35265), (159, 35286), (168, 35319), (179, 35379), (191, 35445), (195, 35463), (200, 35484), (204, 35493), (212, 35529), (214, 35538),

Gene: Pepperoni_38 Start: 29786, Stop: 30508, Start Num: 62

Candidate Starts for Pepperoni_38:

(Start: 54 @29759 has 9 MA's), (62, 29786), (63, 29789), (Start: 70 @29828 has 1 MA's), (74, 29873), (93, 29924), (99, 29942), (108, 29993), (130, 30131), (139, 30182), (174, 30353),

Gene: Phalconet_46 Start: 34873, Stop: 35877, Start Num: 25

Candidate Starts for Phalconet_46:

(Start: 25 @34873 has 70 MA's), (44, 35041), (47, 35062), (50, 35074), (Start: 61 @35107 has 2 MA's), (65, 35122), (67, 35140), (69, 35149), (73, 35185), (88, 35233), (95, 35251), (97, 35263), (105, 35290), (108, 35314), (110, 35326), (111, 35329), (115, 35350), (117, 35371), (119, 35383), (120, 35386), (133, 35458), (135, 35470), (142, 35521), (152, 35578), (154, 35596), (159, 35617), (168, 35650), (170, 35668), (179, 35710), (191, 35776), (195, 35794), (200, 35815), (212, 35860), (214, 35869),

Gene: Phasih_45 Start: 35085, Stop: 36089, Start Num: 25

Candidate Starts for Phasih_45:

(17, 34929), (Start: 25 @35085 has 70 MA's), (50, 35286), (67, 35352), (69, 35361), (73, 35397), (95, 35463), (97, 35475), (105, 35502), (108, 35526), (111, 35541), (115, 35562), (117, 35583), (119, 35595), (120, 35598), (135, 35682), (141, 35727), (142, 35733), (150, 35763), (152, 35790), (154, 35808), (159, 35829), (168, 35862), (179, 35922), (191, 35988), (195, 36006), (200, 36027), (204, 36036), (212, 36072), (214, 36081),

Gene: Phayonce_36 Start: 29962, Stop: 30771, Start Num: 45

Candidate Starts for Phayonce_36:

(Start: 45 @29962 has 4 MA's), (67, 30052), (68, 30058), (119, 30298), (135, 30394), (151, 30478), (160, 30544), (161, 30547), (167, 30571), (185, 30664), (188, 30685), (203, 30757),

Gene: PhesterPhotato_49 Start: 35828, Stop: 36832, Start Num: 25

Candidate Starts for PhesterPhotato_49:

(Start: 25 @35828 has 70 MA's), (44, 35996), (47, 36017), (50, 36029), (Start: 61 @36062 has 2 MA's), (65, 36077), (67, 36095), (69, 36104), (73, 36140), (88, 36188), (95, 36206), (97, 36218), (105, 36245), (108, 36269), (110, 36281), (111, 36284), (115, 36305), (117, 36326), (119, 36338), (120, 36341), (133, 36413), (135, 36425), (142, 36476), (152, 36533), (154, 36551), (159, 36572), (168, 36605), (170, 36623), (179, 36665), (191, 36731), (195, 36749), (200, 36770), (212, 36815), (214, 36824),

Gene: Phistory_58 Start: 36964, Stop: 37761, Start Num: 53

Candidate Starts for Phistory_58:

(Start: 53 @36964 has 1 MA's), (63, 36991), (74, 37075), (86, 37111), (89, 37132), (91, 37138), (103, 37192), (108, 37219), (119, 37288), (126, 37357), (135, 37390), (183, 37633), (190, 37675), (199,

37720),

Gene: PhorbesPhlower_43 Start: 29950, Stop: 30699, Start Num: 54

Candidate Starts for PhorbesPhlower_43:

(Start: 54 @29950 has 9 MA's), (62, 29977), (63, 29980), (Start: 70 @30019 has 1 MA's), (74, 30064), (93, 30115), (99, 30133), (108, 30184), (130, 30322), (139, 30373), (174, 30544),

Gene: PhriskyACE_45 Start: 34290, Stop: 35057, Start Num: 54

Candidate Starts for PhriskyACE_45:

(Start: 54 @34290 has 9 MA's), (62, 34317), (63, 34320), (67, 34347), (74, 34404), (83, 34422), (107, 34512), (108, 34527), (110, 34539), (125, 34650), (151, 34764), (152, 34788), (154, 34806), (159, 34827), (160, 34830), (161, 34833), (167, 34857), (173, 34908), (174, 34911),

Gene: Pippy_45 Start: 33164, Stop: 33943, Start Num: 48

Candidate Starts for Pippy_45:

(Start: 42 @33134 has 1 MA's), (Start: 48 @33164 has 12 MA's), (62, 33188), (63, 33191), (69, 33227), (Start: 70 @33230 has 1 MA's), (74, 33275), (107, 33383), (108, 33398), (119, 33467), (124, 33515), (151, 33632), (156, 33683), (175, 33779), (195, 33884), (196, 33890), (207, 33932), (208, 33938),

Gene: Poenanya_47 Start: 36071, Stop: 37075, Start Num: 25

Candidate Starts for Poenanya_47:

(Start: 25 @36071 has 70 MA's), (47, 36260), (50, 36272), (67, 36338), (69, 36347), (73, 36383), (95, 36449), (97, 36461), (105, 36488), (108, 36512), (111, 36527), (115, 36548), (117, 36569), (119, 36581), (120, 36584), (135, 36668), (141, 36713), (142, 36719), (150, 36749), (152, 36776), (154, 36794), (159, 36815), (168, 36848), (179, 36908), (186, 36935), (191, 36974), (195, 36992), (200, 37013), (204, 37022), (212, 37058), (214, 37067),

Gene: Pollywog_46 Start: 35249, Stop: 36253, Start Num: 25

Candidate Starts for Pollywog_46:

(Start: 25 @35249 has 70 MA's), (47, 35438), (50, 35450), (67, 35516), (69, 35525), (73, 35561), (95, 35627), (97, 35639), (105, 35666), (108, 35690), (111, 35705), (115, 35726), (117, 35747), (119, 35759), (120, 35762), (135, 35846), (141, 35891), (142, 35897), (150, 35927), (152, 35954), (154, 35972), (159, 35993), (168, 36026), (179, 36086), (191, 36152), (195, 36170), (200, 36191), (204, 36200), (212, 36236), (214, 36245),

Gene: PopTart_43 Start: 34554, Stop: 35558, Start Num: 25

Candidate Starts for PopTart_43:

(Start: 25 @34554 has 70 MA's), (44, 34722), (47, 34743), (50, 34755), (Start: 61 @34788 has 2 MA's), (65, 34803), (67, 34821), (69, 34830), (73, 34866), (88, 34914), (95, 34932), (97, 34944), (105, 34971), (108, 34995), (110, 35007), (111, 35010), (115, 35031), (117, 35052), (119, 35064), (120, 35067), (133, 35139), (135, 35151), (141, 35196), (142, 35202), (150, 35232), (152, 35259), (154, 35277), (155, 35280), (159, 35298), (168, 35331), (170, 35349), (179, 35391), (191, 35457), (195, 35475), (200, 35496), (212, 35541),

Gene: Purky_41 Start: 30689, Stop: 31480, Start Num: 45

Candidate Starts for Purky_41:

(Start: 45 @30689 has 4 MA's), (Start: 70 @30788 has 1 MA's), (73, 30824), (105, 30923), (119, 31016), (151, 31196), (154, 31238), (160, 31262), (161, 31265), (167, 31289), (173, 31340), (174, 31343), (185, 31382), (188, 31403), (197, 31454),

Gene: Quico_55 Start: 35977, Stop: 36771, Start Num: 48

Candidate Starts for Quico_55:

(Start: 48 @35977 has 12 MA's), (63, 36019), (69, 36055), (Start: 70 @36058 has 1 MA's), (73, 36094), (94, 36154), (107, 36211), (108, 36226), (119, 36295), (124, 36343), (151, 36460), (156, 36511), (175, 36607), (195, 36712), (196, 36718), (207, 36760), (208, 36766),

Gene: REQ2_43 Start: 33255, Stop: 34112, Start Num: 39

Candidate Starts for REQ2_43:

(39, 33255), (Start: 48 @33318 has 12 MA's), (51, 33324), (64, 33360), (104, 33540), (110, 33576), (119, 33633), (128, 33699), (148, 33783), (192, 34029), (193, 34032),

Gene: RedBird_44 Start: 34882, Stop: 35886, Start Num: 25

Candidate Starts for RedBird_44:

(Start: 25 @34882 has 70 MA's), (47, 35071), (50, 35083), (67, 35149), (69, 35158), (73, 35194), (95, 35260), (97, 35272), (105, 35299), (108, 35323), (111, 35338), (115, 35359), (117, 35380), (119, 35392), (120, 35395), (135, 35479), (141, 35524), (142, 35530), (150, 35560), (152, 35587), (154, 35605), (159, 35626), (168, 35659), (179, 35719), (186, 35746), (191, 35785), (195, 35803), (200, 35824), (204, 35833), (212, 35869), (214, 35878),

Gene: Rockne_45 Start: 34542, Stop: 35546, Start Num: 25

Candidate Starts for Rockne_45:

(Start: 25 @34542 has 70 MA's), (47, 34731), (50, 34743), (67, 34809), (69, 34818), (73, 34854), (95, 34920), (97, 34932), (105, 34959), (108, 34983), (111, 34998), (115, 35019), (117, 35040), (119, 35052), (120, 35055), (135, 35139), (141, 35184), (142, 35190), (150, 35220), (152, 35247), (154, 35265), (159, 35286), (168, 35319), (179, 35379), (191, 35445), (195, 35463), (200, 35484), (204, 35493), (212, 35529), (214, 35538),

Gene: RockyHorror_48 Start: 34943, Stop: 35947, Start Num: 25

Candidate Starts for RockyHorror_48:

(17, 34787), (Start: 25 @34943 has 70 MA's), (50, 35144), (67, 35210), (69, 35219), (73, 35255), (95, 35321), (97, 35333), (105, 35360), (108, 35384), (111, 35399), (115, 35420), (117, 35441), (119, 35453), (120, 35456), (135, 35540), (141, 35585), (142, 35591), (150, 35621), (152, 35648), (154, 35666), (159, 35687), (168, 35720), (179, 35780), (191, 35846), (195, 35864), (200, 35885), (204, 35894), (212, 35930), (214, 35939),

Gene: Ruby_46 Start: 35733, Stop: 36737, Start Num: 25

Candidate Starts for Ruby_46:

(Start: 25 @35733 has 70 MA's), (47, 35922), (50, 35934), (67, 36000), (69, 36009), (73, 36045), (95, 36111), (97, 36123), (105, 36150), (108, 36174), (111, 36189), (115, 36210), (117, 36231), (119, 36243), (120, 36246), (135, 36330), (141, 36375), (142, 36381), (150, 36411), (152, 36438), (154, 36456), (159, 36477), (168, 36510), (179, 36570), (186, 36597), (191, 36636), (195, 36654), (200, 36675), (204, 36684), (212, 36720), (214, 36729),

Gene: Samba_44 Start: 35414, Stop: 36175, Start Num: 57

Candidate Starts for Samba_44:

(29, 35228), (40, 35339), (Start: 57 @35414 has 18 MA's), (63, 35429), (71, 35492), (92, 35564), (105, 35609), (107, 35618), (108, 35633), (119, 35702), (135, 35798), (152, 35888), (190, 36080),

Gene: SassyB_43 Start: 34554, Stop: 35558, Start Num: 25

Candidate Starts for SassyB_43:

(Start: 25 @34554 has 70 MA's), (44, 34722), (47, 34743), (50, 34755), (Start: 61 @34788 has 2 MA's), (65, 34803), (67, 34821), (69, 34830), (73, 34866), (88, 34914), (95, 34932), (97, 34944), (105, 34971), (108, 34995), (110, 35007), (111, 35010), (115, 35031), (117, 35052), (119, 35064), (120, 35067), (133, 35139), (135, 35151), (141, 35196), (142, 35202), (150, 35232), (152, 35259), (154, 35277), (155, 35280), (159, 35298), (168, 35331), (170, 35349), (179, 35391), (191, 35457), (195, 35475),

(200, 35496), (212, 35541),

Gene: Seagreen_48 Start: 35285, Stop: 36286, Start Num: 25

Candidate Starts for Seagreen_48:

(Start: 25 @35285 has 70 MA's), (44, 35453), (47, 35474), (50, 35486), (Start: 61 @35519 has 2 MA's), (67, 35552), (69, 35561), (73, 35597), (95, 35663), (105, 35702), (106, 35705), (110, 35738), (111, 35741), (115, 35762), (117, 35783), (119, 35795), (120, 35798), (135, 35879), (141, 35924), (142, 35930), (150, 35960), (152, 35987), (154, 36005), (155, 36008), (159, 36026), (168, 36059), (170, 36077), (179, 36119), (191, 36185), (195, 36203), (200, 36224), (212, 36269),

Gene: ShroomBoi_47 Start: 35208, Stop: 36212, Start Num: 25

Candidate Starts for ShroomBoi_47:

(Start: 25 @35208 has 70 MA's), (44, 35376), (47, 35397), (50, 35409), (Start: 61 @35442 has 2 MA's), (65, 35457), (67, 35475), (69, 35484), (73, 35520), (88, 35568), (95, 35586), (97, 35598), (105, 35625), (108, 35649), (110, 35661), (111, 35664), (115, 35685), (117, 35706), (119, 35718), (120, 35721), (135, 35805), (141, 35850), (142, 35856), (150, 35886), (152, 35913), (154, 35931), (159, 35952), (168, 35985), (179, 36045), (195, 36129), (200, 36150), (204, 36159), (212, 36195), (214, 36204),

Gene: SiSi_47 Start: 35103, Stop: 36107, Start Num: 25

Candidate Starts for SiSi_47:

(Start: 25 @35103 has 70 MA's), (47, 35292), (50, 35304), (67, 35370), (69, 35379), (73, 35415), (95, 35481), (97, 35493), (105, 35520), (108, 35544), (111, 35559), (115, 35580), (117, 35601), (119, 35613), (120, 35616), (135, 35700), (141, 35745), (142, 35751), (150, 35781), (152, 35808), (154, 35826), (159, 35847), (168, 35880), (179, 35940), (186, 35967), (191, 36006), (195, 36024), (200, 36045), (204, 36054), (212, 36090), (214, 36099),

Gene: SimranZ1_47 Start: 34553, Stop: 35554, Start Num: 25

Candidate Starts for SimranZ1_47:

(Start: 25 @34553 has 70 MA's), (47, 34742), (50, 34754), (67, 34820), (69, 34829), (73, 34865), (95, 34931), (97, 34943), (105, 34970), (108, 34994), (111, 35009), (115, 35030), (117, 35051), (119, 35063), (120, 35066), (135, 35147), (141, 35192), (142, 35198), (144, 35204), (150, 35228), (152, 35255), (159, 35294), (168, 35327), (170, 35345), (179, 35387), (186, 35414), (191, 35453), (195, 35471), (200, 35492), (204, 35501), (212, 35537), (214, 35546),

Gene: Slim_48 Start: 36252, Stop: 37256, Start Num: 25

Candidate Starts for Slim_48:

(Start: 25 @36252 has 70 MA's), (47, 36441), (50, 36453), (67, 36519), (69, 36528), (73, 36564), (95, 36630), (97, 36642), (105, 36669), (108, 36693), (111, 36708), (115, 36729), (117, 36750), (119, 36762), (120, 36765), (135, 36849), (141, 36894), (142, 36900), (150, 36930), (152, 36957), (154, 36975), (159, 36996), (168, 37029), (170, 37047), (179, 37089), (186, 37116), (191, 37155), (195, 37173), (200, 37194), (204, 37203), (212, 37239), (214, 37248),

Gene: Soilmate_51 Start: 38490, Stop: 39251, Start Num: 57

Candidate Starts for Soilmate_51:

(40, 38415), (Start: 57 @38490 has 18 MA's), (63, 38505), (69, 38541), (80, 38604), (86, 38616), (99, 38658), (105, 38685), (119, 38778), (135, 38874), (152, 38964), (190, 39156),

Gene: Sprinklemunch_54 Start: 39274, Stop: 40071, Start Num: 49

Candidate Starts for Sprinklemunch_54:

(49, 39274), (52, 39286), (71, 39388), (100, 39499), (114, 39568), (125, 39664), (140, 39736), (145, 39757), (151, 39778), (152, 39802), (154, 39820), (160, 39844), (161, 39847), (167, 39871), (173, 39922), (174, 39925), (180, 39940), (185, 39964),

Gene: Squirty_40 Start: 32337, Stop: 33116, Start Num: 48

Candidate Starts for Squirty_40:

(Start: 42 @32307 has 1 MA's), (Start: 48 @32337 has 12 MA's), (62, 32361), (63, 32364), (69, 32400), (Start: 70 @32403 has 1 MA's), (74, 32448), (107, 32556), (108, 32571), (119, 32640), (124, 32688), (151, 32805), (156, 32856), (175, 32952), (195, 33057), (196, 33063), (207, 33105), (208, 33111),

Gene: Stap_46 Start: 34844, Stop: 35848, Start Num: 25

Candidate Starts for Stap_46:

(Start: 25 @34844 has 70 MA's), (47, 35033), (50, 35045), (67, 35111), (69, 35120), (73, 35156), (95, 35222), (97, 35234), (105, 35261), (108, 35285), (111, 35300), (115, 35321), (117, 35342), (119, 35354), (120, 35357), (135, 35441), (141, 35486), (142, 35492), (150, 35522), (152, 35549), (154, 35567), (159, 35588), (168, 35621), (179, 35681), (186, 35708), (191, 35747), (195, 35765), (200, 35786), (204, 35795), (212, 35831), (214, 35840),

Gene: Starceвич_47 Start: 35737, Stop: 36741, Start Num: 25

Candidate Starts for Starceвич_47:

(Start: 25 @35737 has 70 MA's), (47, 35926), (50, 35938), (67, 36004), (69, 36013), (73, 36049), (95, 36115), (97, 36127), (105, 36154), (108, 36178), (111, 36193), (115, 36214), (117, 36235), (119, 36247), (120, 36250), (135, 36334), (141, 36379), (142, 36385), (150, 36415), (152, 36442), (154, 36460), (159, 36481), (168, 36514), (179, 36574), (186, 36601), (191, 36640), (195, 36658), (200, 36679), (204, 36688), (212, 36724), (214, 36733),

Gene: SuperGrey_48 Start: 36177, Stop: 37181, Start Num: 25

Candidate Starts for SuperGrey_48:

(Start: 25 @36177 has 70 MA's), (44, 36345), (47, 36366), (50, 36378), (Start: 61 @36411 has 2 MA's), (65, 36426), (67, 36444), (69, 36453), (73, 36489), (88, 36537), (95, 36555), (97, 36567), (105, 36594), (108, 36618), (110, 36630), (111, 36633), (115, 36654), (117, 36675), (119, 36687), (120, 36690), (133, 36762), (135, 36774), (142, 36825), (144, 36831), (152, 36882), (154, 36900), (159, 36921), (168, 36954), (170, 36972), (179, 37014), (186, 37041), (195, 37098), (204, 37128), (212, 37164), (213, 37167),

Gene: Topiatin_52 Start: 36612, Stop: 37616, Start Num: 25

Candidate Starts for Topiatin_52:

(Start: 25 @36612 has 70 MA's), (47, 36801), (50, 36813), (67, 36879), (69, 36888), (73, 36924), (95, 36990), (97, 37002), (105, 37029), (108, 37053), (111, 37068), (115, 37089), (117, 37110), (119, 37122), (120, 37125), (135, 37209), (141, 37254), (142, 37260), (150, 37290), (152, 37317), (154, 37335), (159, 37356), (168, 37389), (179, 37449), (191, 37515), (195, 37533), (200, 37554), (204, 37563), (212, 37599), (214, 37608),

Gene: Totinger_47 Start: 34879, Stop: 35883, Start Num: 25

Candidate Starts for Totinger_47:

(Start: 25 @34879 has 70 MA's), (47, 35068), (50, 35080), (67, 35146), (69, 35155), (73, 35191), (95, 35257), (97, 35269), (105, 35296), (108, 35320), (111, 35335), (115, 35356), (117, 35377), (119, 35389), (120, 35392), (135, 35476), (141, 35521), (142, 35527), (150, 35557), (152, 35584), (154, 35602), (159, 35623), (168, 35656), (170, 35674), (179, 35716), (186, 35743), (191, 35782), (195, 35800), (200, 35821), (204, 35830), (212, 35866), (214, 35875),

Gene: Tweety_47 Start: 35615, Stop: 36619, Start Num: 25

Candidate Starts for Tweety_47:

(Start: 25 @35615 has 70 MA's), (47, 35804), (50, 35816), (67, 35882), (69, 35891), (73, 35927), (95, 35993), (97, 36005), (105, 36032), (108, 36056), (111, 36071), (115, 36092), (117, 36113), (119, 36125), (120, 36128), (135, 36212), (141, 36257), (142, 36263), (150, 36293), (152, 36320), (154, 36338), (159, 36359), (168, 36392), (179, 36452), (186, 36479), (191, 36518), (195, 36536), (200,

36557), (204, 36566), (212, 36602), (214, 36611),

Gene: Utz_39 Start: 34104, Stop: 34865, Start Num: 57

Candidate Starts for Utz_39:

(29, 33918), (40, 34029), (Start: 57 @34104 has 18 MA's), (63, 34119), (71, 34182), (92, 34254), (105, 34299), (107, 34308), (108, 34323), (119, 34392), (135, 34488), (152, 34578), (190, 34770),

Gene: Veteran_45 Start: 34747, Stop: 35751, Start Num: 25

Candidate Starts for Veteran_45:

(Start: 25 @34747 has 70 MA's), (47, 34936), (50, 34948), (67, 35014), (69, 35023), (73, 35059), (95, 35125), (97, 35137), (105, 35164), (108, 35188), (111, 35203), (115, 35224), (117, 35245), (119, 35257), (120, 35260), (135, 35344), (141, 35389), (142, 35395), (150, 35425), (152, 35452), (154, 35470), (159, 35491), (168, 35524), (179, 35584), (186, 35611), (191, 35650), (195, 35668), (200, 35689), (204, 35698), (212, 35734), (214, 35743),

Gene: Vivum_50 Start: 35865, Stop: 36869, Start Num: 25

Candidate Starts for Vivum_50:

(Start: 25 @35865 has 70 MA's), (47, 36054), (50, 36066), (67, 36132), (69, 36141), (73, 36177), (95, 36243), (97, 36255), (105, 36282), (108, 36306), (111, 36321), (115, 36342), (117, 36363), (119, 36375), (120, 36378), (135, 36462), (141, 36507), (142, 36513), (150, 36543), (152, 36570), (154, 36588), (159, 36609), (168, 36642), (179, 36702), (186, 36729), (191, 36768), (195, 36786), (200, 36807), (204, 36816), (212, 36852), (214, 36861),

Gene: Wee_50 Start: 36114, Stop: 37118, Start Num: 25

Candidate Starts for Wee_50:

(Start: 25 @36114 has 70 MA's), (47, 36303), (50, 36315), (67, 36381), (69, 36390), (73, 36426), (95, 36492), (97, 36504), (105, 36531), (108, 36555), (111, 36570), (115, 36591), (117, 36612), (119, 36624), (120, 36627), (135, 36711), (141, 36756), (142, 36762), (150, 36792), (152, 36819), (154, 36837), (159, 36858), (168, 36891), (179, 36951), (186, 36978), (191, 37017), (195, 37035), (200, 37056), (204, 37065), (212, 37101), (214, 37110),

Gene: WinkNick_49 Start: 34309, Stop: 35058, Start Num: 54

Candidate Starts for WinkNick_49:

(3, 33670), (4, 33724), (5, 33757), (8, 33796), (10, 33817), (11, 33850), (13, 33862), (18, 33985), (19, 34006), (30, 34153), (Start: 54 @34309 has 9 MA's), (63, 34339), (67, 34366), (69, 34375), (99, 34492), (105, 34519), (108, 34543), (111, 34558), (116, 34588), (128, 34678), (130, 34681), (174, 34903),

Gene: Wisp_43 Start: 34155, Stop: 34916, Start Num: 57

Candidate Starts for Wisp_43:

(23, 33915), (29, 33969), (40, 34080), (Start: 57 @34155 has 18 MA's), (63, 34170), (80, 34269), (86, 34281), (99, 34323), (105, 34350), (119, 34443), (135, 34539), (152, 34629), (190, 34821), (199, 34866),

Gene: Wocket_45 Start: 33305, Stop: 34066, Start Num: 57

Candidate Starts for Wocket_45:

(26, 33104), (40, 33230), (Start: 57 @33305 has 18 MA's), (63, 33320), (80, 33419), (86, 33431), (99, 33473), (105, 33500), (117, 33581), (119, 33593), (135, 33689), (152, 33779), (166, 33845), (190, 33971), (199, 34016),

Gene: Wrigley_52 Start: 36935, Stop: 37699, Start Num: 54

Candidate Starts for Wrigley_52:

(Start: 54 @36935 has 9 MA's), (62, 36962), (63, 36965), (69, 37001), (81, 37064), (85, 37076), (98, 37118), (105, 37145), (119, 37238), (125, 37292), (151, 37406), (152, 37430), (154, 37448), (159, 37469), (160, 37472), (161, 37475), (167, 37499), (173, 37550), (174, 37553), (188, 37613),

Gene: Yoshi_60 Start: 36844, Stop: 38034, Start Num: 25

Candidate Starts for Yoshi_60:

(Start: 25 @36844 has 70 MA's), (47, 37033), (50, 37045), (Start: 61 @37078 has 2 MA's), (65, 37093), (67, 37111), (69, 37120), (73, 37156), (88, 37204), (95, 37222), (97, 37234), (105, 37261), (108, 37285), (110, 37297), (111, 37300), (115, 37321), (117, 37342), (119, 37354), (120, 37357), (133, 37426), (135, 37438), (141, 37483), (142, 37489), (144, 37495), (150, 37519), (152, 37546), (154, 37564), (159, 37585), (168, 37618), (170, 37636), (179, 37678), (186, 37705), (191, 37744), (195, 37762), (200, 37783), (204, 37792), (209, 37819), (215, 37876), (216, 38017),

Gene: YungMoney_53 Start: 42952, Stop: 43722, Start Num: 55

Candidate Starts for YungMoney_53:

(Start: 55 @42952 has 1 MA's), (58, 42964), (63, 42976), (74, 43057), (102, 43147), (106, 43159), (108, 43180), (109, 43189), (119, 43249), (131, 43321), (138, 43342), (146, 43369), (165, 43465), (171, 43516), (178, 43537), (184, 43564), (187, 43579), (211, 43699),

Gene: Zerg_46 Start: 35052, Stop: 36056, Start Num: 25

Candidate Starts for Zerg_46:

(17, 34896), (Start: 25 @35052 has 70 MA's), (50, 35253), (67, 35319), (69, 35328), (73, 35364), (95, 35430), (97, 35442), (105, 35469), (108, 35493), (111, 35508), (115, 35529), (117, 35550), (119, 35562), (120, 35565), (135, 35649), (141, 35694), (142, 35700), (150, 35730), (152, 35757), (154, 35775), (159, 35796), (168, 35829), (179, 35889), (191, 35955), (195, 35973), (200, 35994), (204, 36003), (212, 36039), (214, 36048),

Gene: ZiggyZoo_46 Start: 35375, Stop: 36136, Start Num: 57

Candidate Starts for ZiggyZoo_46:

(20, 35090), (29, 35189), (Start: 57 @35375 has 18 MA's), (63, 35390), (80, 35489), (86, 35501), (99, 35543), (105, 35570), (119, 35663), (135, 35759), (152, 35849), (190, 36041),

Gene: Zizzle_51 Start: 36006, Stop: 36785, Start Num: 48

Candidate Starts for Zizzle_51:

(Start: 42 @35976 has 1 MA's), (Start: 48 @36006 has 12 MA's), (62, 36030), (63, 36033), (69, 36069), (Start: 70 @36072 has 1 MA's), (74, 36117), (107, 36225), (108, 36240), (119, 36309), (124, 36357), (151, 36474), (156, 36525), (175, 36621), (195, 36726), (196, 36732), (207, 36774), (208, 36780),