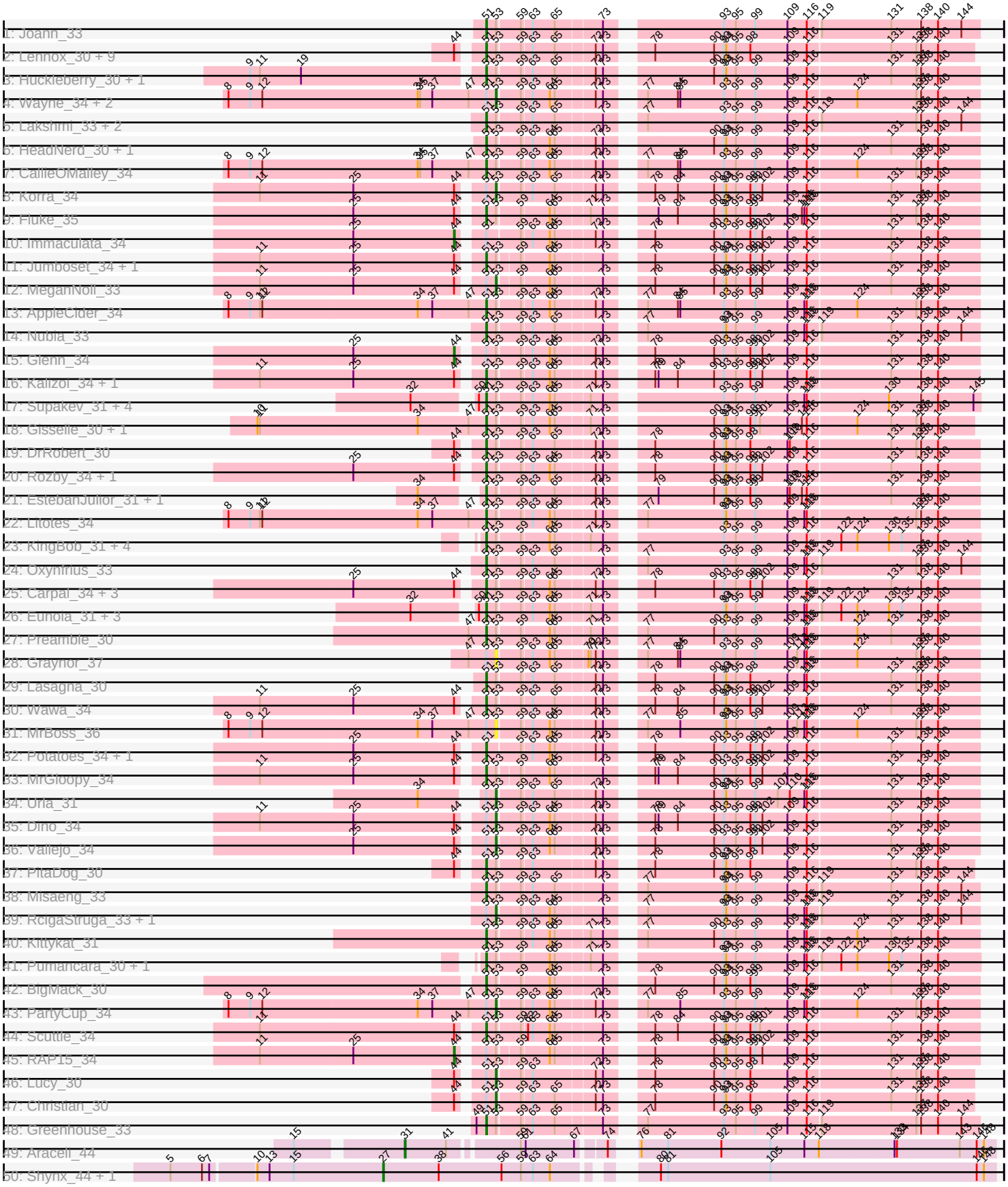
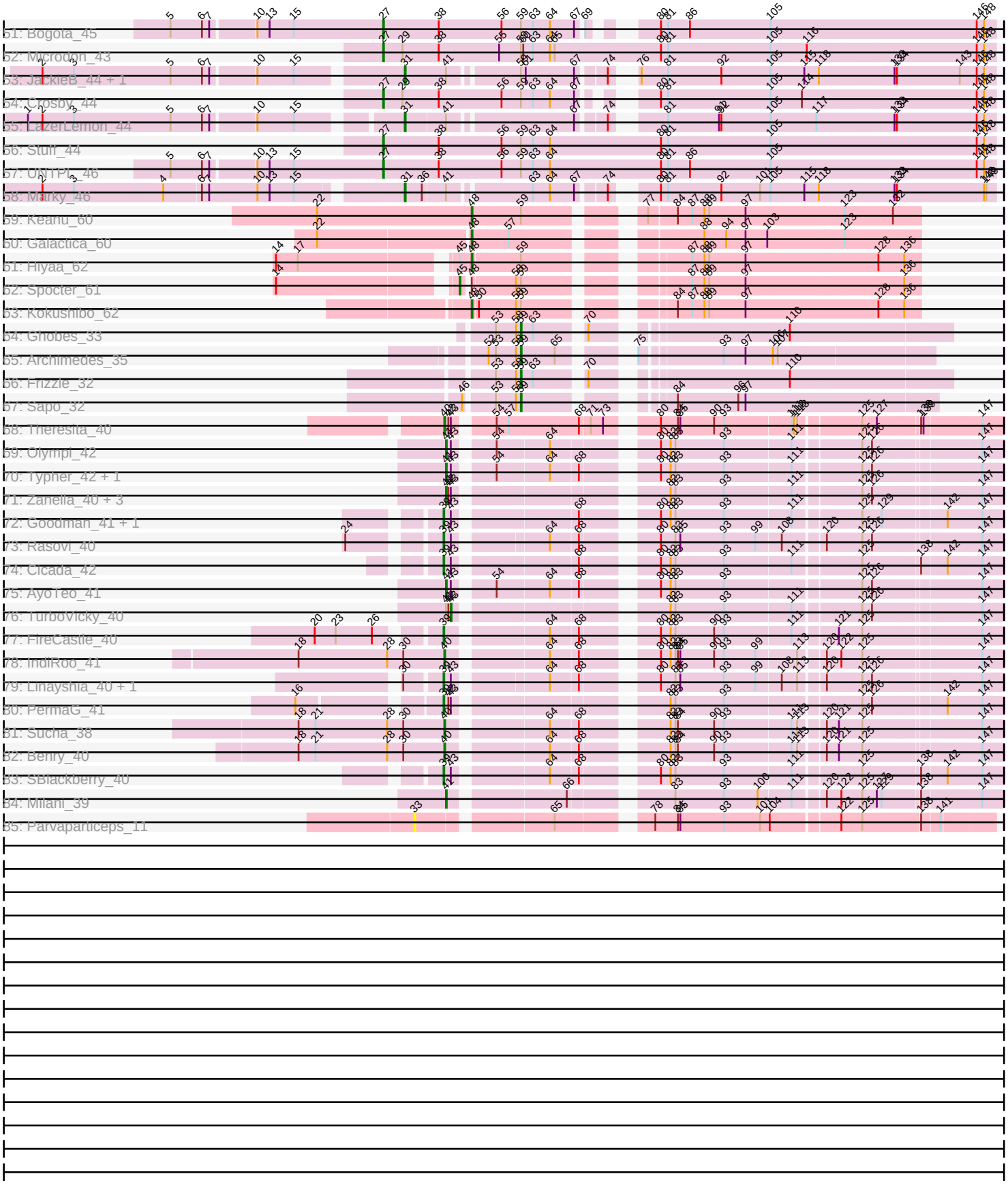
Pham 341908


1: Joann_33
2: Lennox_30 + 9
3: Huckleberry_30 + 1
4: Wayne_34 + 2
5: Lakshmi_33 + 2
6: HeadNerd_30 + 1
7: CallieOMalley_34
8: Korra_34
9: Fluke_35
10: Immaculata_34
11: Jumboset_34 + 1
12: MeganNoll_33
13: AppleCider_34
14: Nubia_33
15: Glenn_34
16: Kallzol_34 + 1
17: Supakev_31 + 4
18: Gisselle_30 + 1
19: DrRobert_30
20: Rozby_34 + 1
21: EstebanJulior_31 + 1
22: Litotes_34
23: KingBob_31 + 4
24: Oxyrrhus_33
25: Carpal_34 + 3
26: Eunoia_31 + 3
27: Preamble_30
28: Graynor_37
29: Lasagna_30
30: Wawa_34
31: MrBoss_36
32: Potatoes_34 + 1
33: MrGloopy_34
34: Orla_31
35: Dino_34
36: Vallejo_34
37: PitaDog_30
38: Misaeng_33
39: RcigaStruga_33 + 1
40: Kittykat_31
41: Pumancara_30 + 1
42: BigMack_30
43: PartyCup_34
44: Scuttle_34
45: RAP15_34
46: Lucy_30
47: Christian_30
48: Greenhouse_33
49: Araceli_44
50: Shynx_44 + 1

Pham 341908


51: Bogota_45
52: Microdon_43
53: JackieB_44 + 1
54: Crosby_44
55: LazerLemon_44
56: Stuff_44
57: OMTPI_46
58: Marky_46
59: Keanu_60
60: Galactica_60
61: Hiyaa_62
62: Spocter_61
63: Kokushibo_62
64: Ghobes_33
65: Archimedes_35
66: Frizzle_32
67: Sapo_32
68: Theresita_40
69: Olympi_42
70: Typher_42 + 1
71: Zanella_40 + 3
72: Goodman_41 + 1
73: Rasovi_40
74: Cicada_42
75: AyoTeo_41
76: TurboVicky_40
77: FireCastle_40
78: IndiRoo_41
79: Linayshia_40 + 1
80: PermaG_41
81: Sucha_38
82: Berry_40
83: SBlackberry_40
84: Milani_39
85: Parvaparticeps_11

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 341908 Report

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

Pham number 341908 has 130 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Joann_33
• Track 2 : Lennox_30, ChewChew_30, WonderBoy_29, Bodacious_30, Pterodactyl_30, Nancia_30, Makoto_30, CristinaYang_30, LilStuart_30, OurGirlNessie_30
• Track 3 : Huckleberry_30, Moki_30
• Track 4 : Wayne_34, Canowicakte_34, Suppi_34
• Track 5 : Lakshmi_33, GreenHearts_33, Albanese_33
• Track 6 : HeadNerd_30, Bennie_30
• Track 7 : CallieOMalley_34
• Track 8 : Korra_34
• Track 9 : Fluke_35
• Track 10 : Immaculata_34
• Track 11 : Jumboset_34, Savage2526_34
• Track 12 : MeganNoll_33
• Track 13 : AppleCider_34
• Track 14 : Nubia_33
• Track 15 : Glenn_34
• Track 16 : Kalizoi_34, Zorro_34
• Track 17 : Supakev_31, AustinPowers_31, Vulture_31, HunterDalle_31, Chridison_30
• Track 18 : Gisselle_30, DreamTeam_30
• Track 19 : DrRobert_30
• Track 20 : Rozby_34, BrotherBLo_34
• Track 21 : EstebanJulior_31, MamaPearl_31
• Track 22 : Litotes_34
• Track 23 : KingBob_31, Daiboju_31, Temper16_31, Herb_31, Sergei_31
• Track 24 : Oxynfrius_33
• Track 25 : Carpal_34, Riverdale_34, Beethoven_34, TattModd_34
• Track 26 : Eunoia_31, Riovina_31, OMalley_31, Aledel_31
• Track 27 : Preamble_30
• Track 28 : Graynor_37
• Track 29 : Lasagna_30
• Track 30 : Wawa_34
• Track 31 : MrBoss_36
• Track 32 : Potatoes_34, Cholula_34
• Track 33 : MrGloopy_34
• Track 34 : Urla_31

- Track 35 : Dino_34
- Track 36 : Vallejo_34
- Track 37 : PitaDog_30
- Track 38 : Misaeng_33
- Track 39 : RcigaStruga_33, Huntingdon_33
- Track 40 : Kittykat_31
- Track 41 : Pumancara_30, PinkFriday_30
- Track 42 : BigMack_30
- Track 43 : PartyCup_34
- Track 44 : Scuttle_34
- Track 45 : RAP15_34
- Track 46 : Lucy_30
- Track 47 : Christian_30
- Track 48 : Greenhouse_33
- Track 49 : Araceli_44
- Track 50 : Shynx_44, Intolerant_43
- Track 51 : Bogota_45
- Track 52 : Microdon_43
- Track 53 : JackieB_44, Henoccus_44
- Track 54 : Crosby_44
- Track 55 : LazerLemon_44
- Track 56 : Stuff_44
- Track 57 : UNTPL_46
- Track 58 : Marky_46
- Track 59 : Keanu_60
- Track 60 : Galactica_60
- Track 61 : Hiyaa_62
- Track 62 : Spocter_61
- Track 63 : Kokushibo_62
- Track 64 : Ghobes_33
- Track 65 : Archimedes_35
- Track 66 : Frizzle_32
- Track 67 : Sapo_32
- Track 68 : Theresita_40
- Track 69 : Olympi_42
- Track 70 : Typher_42, Labella_42
- Track 71 : Zanella_40, Rootkit7_40, Jera_41, Alove_40
- Track 72 : Goodman_41, Johann_41
- Track 73 : Rasovi_40
- Track 74 : Cicada_42
- Track 75 : AyoTeo_41
- Track 76 : TurboVicky_40
- Track 77 : FireCastle_40
- Track 78 : IndiRoo_41
- Track 79 : Linayshia_40, Htur_40
- Track 80 : PermaG_41
- Track 81 : Sucha_38
- Track 82 : Benry_40
- Track 83 : SBlackberry_40
- Track 84 : Milani_39
- Track 85 : Parvaparticeps_11

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

The start number called the most often in the published annotations is 51, it was called in 67 of the 126 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Albanese_33, Aledel_31, AppleCider_34, AustinPowers_31, Beethoven_34, Bennie_30, BigMack_30, Bodacious_30, BrotherBLo_34, CallieOMalley_34, Carpal_34, ChewChew_30, Cholula_34, Chridison_30, CristinaYang_30, Daiboju_31, DrRobert_30, DreamTeam_30, EstebanJulior_31, Eunoia_31, Fluke_35, Gisselle_30, GreenHearts_33, Greenhouse_33, HeadNerd_30, Herb_31, Huckleberry_30, HunterDalle_31, Joann_33, Jumboset_34, Kalizoi_34, KingBob_31, Kittykat_31, Lakshmi_33, Lasagna_30, Lennox_30, LilStuart_30, Litotes_34, Makoto_30, MamaPearl_31, Misaeng_33, Moki_30, MrGloopy_34, Nancia_30, Nubia_33, OMalley_31, OurGirlNessie_30, Oxynfrius_33, PinkFriday_30, PitaDog_30, Potatoes_34, Preamble_30, Pterodactyl_30, Pumancara_30, Riovina_31, Riverdale_34, Rozby_34, Savage2526_34, Scuttle_34, Sergei_31, Supakev_31, TattModd_34, Temper16_31, Vulture_31, Wawa_34, WonderBoy_29, Zorro_34,

Genes that have the "Most Annotated" start but do not call it:
• Canowicakte_34, Christian_30, Dino_34, Glenn_34, Graynor_37, Huntingdon_33, Immaculata_34, Korra_34, Lucy_30, MeganNoll_33, MrBoss_36, PartyCup_34, RAP15_34, RcigaStruga_33, Suppi_34, Urla_31, Vallejo_34, Wayne_34,

Genes that do not have the "Most Annotated" start:
• Alove_40, Araceli_44, Archimedes_35, AyoTeo_41, Benry_40, Bogota_45, Cicada_42, Crosby_44, FireCastle_40, Frizzle_32, Galactica_60, Ghobes_33, Goodman_41, Henoccus_44, Hiyaa_62, Htur_40, IndiRoo_41, Intolerant_43, JackieB_44, Jera_41, Johann_41, Keanu_60, Kokushibo_62, Labella_42, LazerLemon_44, Linayshia_40, Marky_46, Microdon_43, Milani_39, Olympi_42, Parvaparticeps_11, PermaG_41, Rasovi_40, Rootkit7_40, SBlackberry_40, Sapo_32, Shynx_44, Spocter_61, Stuff_44, Sucha_38, Theresita_40, TurboVicky_40, Typher_42, UNTPL_46, Zanella_40,

Summary by start number:

Start 27:
• Found in 7 of 130 (5.4%) of genes in pham
• Manual Annotations of this start: 7 of 126
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bogota_45 (BH), Crosby_44 (BH), Intolerant_43 (BH), Microdon_43 (BH), Shynx_44 (BH), Stuff_44 (BH), UNTPL_46 (BH),

Start 31:
• Found in 5 of 130 (3.8%) of genes in pham
• Manual Annotations of this start: 5 of 126
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Araceli_44 (BH), Henoccus_44 (BH), JackieB_44 (BH), LazerLemon_44 (BH), Marky_46 (BH),

Start 33:

• Found in 1 of 130 (0.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Parvaparticeps_11 (UNK),

Start 39:
• Found in 9 of 130 (6.9%) of genes in pham
• Manual Annotations of this start: 9 of 126
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cicada_42 (EJ), FireCastle_40 (EJ), Goodman_41 (EJ), Htur_40 (EJ), Johann_41 (EJ), Linayshia_40 (EJ), PermaG_41 (EJ), Rasovi_40 (EJ), SBlackberry_40 (EJ),

Start 40:
• Found in 4 of 130 (3.1%) of genes in pham
• Manual Annotations of this start: 4 of 126
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Benry_40 (EJ), IndiRoo_41 (EJ), Sucha_38 (EJ), Theresita_40 (EA7),

Start 41:
• Found in 15 of 130 (11.5%) of genes in pham
• Manual Annotations of this start: 8 of 126
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Alove_40 (EJ), AyoTeo_41 (EJ), Jera_41 (EJ), Labella_42 (EJ), Milani_39 (EJ), Olympi_42 (EJ), Rootkit7_40 (EJ), Typher_42 (EJ), Zanella_40 (EJ),

Start 43:
• Found in 18 of 130 (13.8%) of genes in pham
• Manual Annotations of this start: 1 of 126
• Called 5.6% of time when present
• Phage (with cluster) where this start called: TurboVicky_40 (EJ),

Start 44:
• Found in 37 of 130 (28.5%) of genes in pham
• Manual Annotations of this start: 3 of 126
• Called 8.1% of time when present
• Phage (with cluster) where this start called: Glenn_34 (AK), Immaculata_34 (AK), RAP15_34 (AK),

Start 45:
• Found in 2 of 130 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 126
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Spocter_61 (BQ),

Start 48:
• Found in 5 of 130 (3.8%) of genes in pham
• Manual Annotations of this start: 4 of 126
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Galactica_60 (BQ), Hiyaa_62 (BQ), Keanu_60 (BQ), Kokushibo_62 (BQ),

Start 51:
• Found in 85 of 130 (65.4%) of genes in pham
• Manual Annotations of this start: 67 of 126
• Called 78.8% of time when present
• Phage (with cluster) where this start called: Albanese_33 (AK), Aledel_31 (AK), AppleCider_34 (AK), AustinPowers_31 (AK), Beethoven_34 (AK), Bennie_30 (AK), BigMack_30 (AK), Bodacious_30 (AK), BrotherBLo_34 (AK), CallieOMalley_34 (AK), Carpal_34 (AK), ChewChew_30 (AK), Cholula_34 (AK), Chridison_30 (AK), CristinaYang_30 (AK), Daiboju_31 (AK), DrRobert_30 (AK), DreamTeam_30 (AK), EstebanJulior_31 (AK), Eunoia_31 (AK), Fluke_35 (AK), Gisselle_30 (AK), GreenHearts_33 (AK), Greenhouse_33 (AK), HeadNerd_30 (AK), Herb_31 (AK), Huckleberry_30 (AK), HunterDalle_31 (AK), Joann_33 (AK), Jumboset_34 (AK), Kalizoi_34 (AK), KingBob_31 (AK), Kittykat_31 (AK), Lakshmi_33 (AK), Lasagna_30 (AK), Lennox_30 (AK), LilStuart_30 (AK), Litotes_34 (AK), Makoto_30 (AK), MamaPearl_31 (AK), Misaeng_33 (AK), Moki_30 (AK), MrGloopy_34 (AK), Nancia_30 (AK), Nubia_33 (AK), OMalley_31 (AK), OurGirlNessie_30 (AK), Oxynfrius_33 (AK), PinkFriday_30 (AK), PitaDog_30 (AK), Potatoes_34 (AK), Preamble_30 (AK), Pterodactyl_30 (AK), Pumancara_30 (AK), Riovina_31 (AK), Riverdale_34 (AK), Rozby_34 (AK), Savage2526_34 (AK), Scuttle_34 (AK), Sergei_31 (AK), Supakev_31 (AK), TattModd_34 (AK), Temper16_31 (AK), Vulture_31 (AK), Wawa_34 (AK), WonderBoy_29 (AK), Zorro_34 (AK),

Start 53:
• Found in 86 of 130 (66.2%) of genes in pham
• Manual Annotations of this start: 13 of 126
• Called 17.4% of time when present
• Phage (with cluster) where this start called: Canowicakte_34 (AK), Christian_30 (AK), Dino_34 (AK), Graynor_37 (AK), Huntingdon_33 (AK), Korra_34 (AK), Lucy_30 (AK), MeganNoll_33 (AK), MrBoss_36 (AK), PartyCup_34 (AK), RcigaStruga_33 (AK), Suppi_34 (AK), Urla_31 (AK), Vallejo_34 (AK), Wayne_34 (AK),

Start 59:
• Found in 103 of 130 (79.2%) of genes in pham
• Manual Annotations of this start: 4 of 126
• Called 3.9% of time when present
• Phage (with cluster) where this start called: Archimedes_35 (DA), Frizzle_32 (DA), Ghobes_33 (DA), Sapo_32 (DA),

Summary by clusters:

There are 7 clusters represented in this pham: EJ, AK, BH, DA, BQ, UNK, EA7,

Info for manual annotations of cluster AK:
•Start number 44 was manually annotated 3 times for cluster AK.
•Start number 51 was manually annotated 67 times for cluster AK.
•Start number 53 was manually annotated 13 times for cluster AK.

Info for manual annotations of cluster BH:
•Start number 27 was manually annotated 7 times for cluster BH.
•Start number 31 was manually annotated 5 times for cluster BH.

Info for manual annotations of cluster BQ:

•Start number 45 was manually annotated 1 time for cluster BQ.
•Start number 48 was manually annotated 4 times for cluster BQ.

Info for manual annotations of cluster DA:
•Start number 59 was manually annotated 4 times for cluster DA.

Info for manual annotations of cluster EA7:
•Start number 40 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EJ:
•Start number 39 was manually annotated 9 times for cluster EJ.
•Start number 40 was manually annotated 3 times for cluster EJ.
•Start number 41 was manually annotated 8 times for cluster EJ.
•Start number 43 was manually annotated 1 time for cluster EJ.

Gene Information:

Gene: Albanese_33 Start: 25146, Stop: 25703, Start Num: 51
Candidate Starts for Albanese_33:
(Start: 51 @25146 has 67 MA's), (Start: 53 @25158 has 13 MA's), (Start: 59 @25185 has 4 MA's), (63, 25197), (65, 25224), (73, 25278), (77, 25308), (93, 25401), (95, 25416), (99, 25440), (109, 25479), (116, 25503), (119, 25518), (137, 25632), (138, 25635), (140, 25656), (144, 25683),

Gene: Aledel_31 Start: 24783, Stop: 25343, Start Num: 51
Candidate Starts for Aledel_31:
(32, 24711), (50, 24774), (Start: 51 @24783 has 67 MA's), (Start: 53 @24795 has 13 MA's), (Start: 59 @24822 has 4 MA's), (63, 24834), (64, 24855), (65, 24861), (71, 24900), (73, 24915), (93, 25038), (94, 25041), (95, 25053), (99, 25077), (109, 25116), (115, 25137), (116, 25140), (119, 25155), (122, 25179), (124, 25197), (130, 25236), (135, 25251), (138, 25272), (140, 25293),

Gene: Alove_40 Start: 26528, Stop: 27136, Start Num: 41
Candidate Starts for Alove_40:
(Start: 41 @26528 has 8 MA's), (42, 26531), (Start: 43 @26534 has 1 MA's), (82, 26753), (83, 26759), (93, 26819), (111, 26900), (125, 26975), (126, 26987), (147, 27110),

Gene: AppleCider_34 Start: 25187, Stop: 25744, Start Num: 51
Candidate Starts for AppleCider_34:
(8, 24872), (9, 24899), (11, 24911), (12, 24914), (34, 25103), (37, 25121), (47, 25166), (Start: 51 @25187 has 67 MA's), (Start: 53 @25199 has 13 MA's), (Start: 59 @25226 has 4 MA's), (63, 25238), (64, 25259), (65, 25265), (72, 25310), (73, 25319), (77, 25349), (84, 25385), (85, 25388), (93, 25442), (95, 25457), (99, 25481), (109, 25520), (115, 25541), (116, 25544), (124, 25601), (137, 25673), (138, 25676), (140, 25697),

Gene: Araceli_44 Start: 33079, Stop: 33750, Start Num: 31
Candidate Starts for Araceli_44:
(15, 32962), (Start: 31 @33079 has 5 MA's), (Start: 41 @33130 has 8 MA's), (Start: 59 @33208 has 4 MA's), (61, 33214), (67, 33274), (74, 33304), (76, 33316), (81, 33349), (92, 33415), (105, 33475), (115, 33517), (118, 33535), (133, 33625), (134, 33628), (143, 33706), (146, 33727), (148, 33736),

Gene: Archimedes_35 Start: 31428, Stop: 30985, Start Num: 59

Candidate Starts for Archimedes_35:
(52, 31467), (Start: 53 @31458 has 13 MA's), (58, 31434), (Start: 59 @31428 has 4 MA's), (65, 31386), (75, 31326), (93, 31233), (97, 31206), (106, 31173), (107, 31167),

Gene: AustinPowers_31 Start: 24781, Stop: 25341, Start Num: 51
Candidate Starts for AustinPowers_31:
(32, 24709), (50, 24772), (Start: 51 @24781 has 67 MA's), (Start: 53 @24793 has 13 MA's), (Start: 59 @24820 has 4 MA's), (63, 24832), (64, 24853), (65, 24859), (71, 24898), (73, 24913), (93, 25036), (95, 25051), (99, 25075), (109, 25114), (115, 25135), (116, 25138), (130, 25234), (138, 25270), (140, 25291), (145, 25333),

Gene: AyoTeo_41 Start: 26653, Stop: 27261, Start Num: 41
Candidate Starts for AyoTeo_41:
(Start: 41 @26653 has 8 MA's), (Start: 43 @26659 has 1 MA's), (54, 26698), (64, 26761), (68, 26794), (80, 26866), (82, 26878), (83, 26884), (93, 26944), (125, 27100), (126, 27112), (147, 27235),

Gene: Beethoven_34 Start: 25166, Stop: 25723, Start Num: 51
Candidate Starts for Beethoven_34:
(25, 25019), (Start: 44 @25142 has 3 MA's), (Start: 51 @25166 has 67 MA's), (Start: 53 @25178 has 13 MA's), (Start: 59 @25205 has 4 MA's), (63, 25217), (64, 25238), (65, 25244), (72, 25289), (73, 25298), (78, 25337), (90, 25409), (93, 25421), (95, 25436), (98, 25454), (99, 25460), (102, 25469), (109, 25499), (116, 25523), (131, 25622), (138, 25655), (140, 25676),

Gene: Bennie_30 Start: 23623, Stop: 24180, Start Num: 51
Candidate Starts for Bennie_30:
(Start: 51 @23623 has 67 MA's), (Start: 53 @23635 has 13 MA's), (Start: 59 @23662 has 4 MA's), (63, 23674), (64, 23695), (65, 23701), (72, 23746), (73, 23755), (90, 23866), (93, 23878), (94, 23881), (95, 23893), (99, 23917), (109, 23956), (116, 23980), (131, 24079), (138, 24112), (140, 24133),

Gene: Benry_40 Start: 25022, Stop: 25630, Start Num: 40
Candidate Starts for Benry_40:
(18, 24845), (21, 24866), (28, 24953), (30, 24971), (Start: 40 @25022 has 4 MA's), (64, 25130), (68, 25163), (82, 25247), (83, 25253), (84, 25256), (90, 25301), (93, 25313), (111, 25394), (113, 25400), (120, 25427), (121, 25442), (125, 25469), (147, 25604),

Gene: BigMack_30 Start: 23645, Stop: 24202, Start Num: 51
Candidate Starts for BigMack_30:
(Start: 51 @23645 has 67 MA's), (Start: 53 @23657 has 13 MA's), (Start: 59 @23684 has 4 MA's), (64, 23717), (65, 23723), (73, 23777), (78, 23816), (90, 23888), (93, 23900), (94, 23903), (95, 23915), (98, 23933), (99, 23939), (109, 23978), (116, 24002), (131, 24101), (138, 24134), (140, 24155),

Gene: Bodacious_30 Start: 23631, Stop: 24182, Start Num: 51
Candidate Starts for Bodacious_30:
(Start: 44 @23607 has 3 MA's), (Start: 51 @23631 has 67 MA's), (Start: 53 @23643 has 13 MA's), (Start: 59 @23670 has 4 MA's), (63, 23682), (65, 23709), (72, 23754), (73, 23763), (78, 23802), (90, 23874), (93, 23886), (94, 23889), (95, 23901), (98, 23919), (109, 23964), (116, 23988), (131, 24087), (137, 24117), (138, 24120), (140, 24141),

Gene: Bogota_45 Start: 33597, Stop: 34298, Start Num: 27
Candidate Starts for Bogota_45:
(5, 33342), (6, 33381), (7, 33390), (10, 33441), (13, 33456), (15, 33486), (Start: 27 @33597 has 7 MA's), (38, 33666), (56, 33744), (Start: 59 @33768 has 4 MA's), (63, 33783), (64, 33804), (67, 33834), (69, 33840), (80, 33888), (81, 33897), (86, 33924), (105, 34023), (146, 34275), (148, 34284),

Gene: BrotherBLo_34 Start: 25191, Stop: 25748, Start Num: 51
Candidate Starts for BrotherBLo_34:
(25, 25044), (Start: 44 @25167 has 3 MA's), (Start: 51 @25191 has 67 MA's), (Start: 53 @25203 has 13 MA's), (Start: 59 @25230 has 4 MA's), (63, 25242), (64, 25263), (65, 25269), (72, 25314), (73, 25323), (78, 25362), (90, 25434), (93, 25446), (94, 25449), (95, 25461), (98, 25479), (99, 25485), (102, 25494), (109, 25524), (116, 25548), (131, 25647), (138, 25680), (140, 25701),

Gene: CallieOMalley_34 Start: 25187, Stop: 25744, Start Num: 51
Candidate Starts for CallieOMalley_34:
(8, 24872), (9, 24899), (12, 24914), (34, 25103), (35, 25106), (37, 25121), (47, 25166), (Start: 51 @25187 has 67 MA's), (Start: 53 @25199 has 13 MA's), (Start: 59 @25226 has 4 MA's), (63, 25238), (64, 25259), (65, 25265), (72, 25310), (73, 25319), (77, 25349), (84, 25385), (85, 25388), (93, 25442), (95, 25457), (99, 25481), (109, 25520), (116, 25544), (124, 25601), (137, 25673), (138, 25676), (140, 25697),

Gene: Canowicakte_34 Start: 25234, Stop: 25779, Start Num: 53
Candidate Starts for Canowicakte_34:
(8, 24907), (9, 24934), (12, 24949), (34, 25138), (35, 25141), (37, 25156), (47, 25201), (Start: 51 @25222 has 67 MA's), (Start: 53 @25234 has 13 MA's), (Start: 59 @25261 has 4 MA's), (63, 25273), (64, 25294), (65, 25300), (72, 25345), (73, 25354), (77, 25384), (84, 25420), (85, 25423), (93, 25477), (95, 25492), (99, 25516), (109, 25555), (116, 25579), (124, 25636), (137, 25708), (138, 25711), (140, 25732),

Gene: Carpal_34 Start: 25173, Stop: 25730, Start Num: 51
Candidate Starts for Carpal_34:
(25, 25026), (Start: 44 @25149 has 3 MA's), (Start: 51 @25173 has 67 MA's), (Start: 53 @25185 has 13 MA's), (Start: 59 @25212 has 4 MA's), (63, 25224), (64, 25245), (65, 25251), (72, 25296), (73, 25305), (78, 25344), (90, 25416), (93, 25428), (95, 25443), (98, 25461), (99, 25467), (102, 25476), (109, 25506), (116, 25530), (131, 25629), (138, 25662), (140, 25683),

Gene: ChewChew_30 Start: 23626, Stop: 24177, Start Num: 51
Candidate Starts for ChewChew_30:
(Start: 44 @23602 has 3 MA's), (Start: 51 @23626 has 67 MA's), (Start: 53 @23638 has 13 MA's), (Start: 59 @23665 has 4 MA's), (63, 23677), (65, 23704), (72, 23749), (73, 23758), (78, 23797), (90, 23869), (93, 23881), (94, 23884), (95, 23896), (98, 23914), (109, 23959), (116, 23983), (131, 24082), (137, 24112), (138, 24115), (140, 24136),

Gene: Cholula_34 Start: 25219, Stop: 25776, Start Num: 51
Candidate Starts for Cholula_34:
(25, 25072), (Start: 44 @25195 has 3 MA's), (Start: 51 @25219 has 67 MA's), (Start: 59 @25258 has 4 MA's), (63, 25270), (64, 25291), (65, 25297), (72, 25342), (73, 25351), (78, 25390), (90, 25462), (93, 25474), (95, 25489), (98, 25507), (99, 25513), (102, 25522), (109, 25552), (116, 25576), (131, 25675), (138, 25708), (140, 25729),

Gene: Chridison_30 Start: 24781, Stop: 25341, Start Num: 51
Candidate Starts for Chridison_30:
(32, 24709), (50, 24772), (Start: 51 @24781 has 67 MA's), (Start: 53 @24793 has 13 MA's), (Start: 59 @24820 has 4 MA's), (63, 24832), (64, 24853), (65, 24859), (71, 24898), (73, 24913), (93, 25036), (95, 25051), (99, 25075), (109, 25114), (115, 25135), (116, 25138), (130, 25234), (138, 25270), (140, 25291), (145, 25333),

Gene: Christian_30 Start: 23639, Stop: 24178, Start Num: 53

Candidate Starts for Christian_30:
(Start: 44 @23603 has 3 MA's), (Start: 51 @23627 has 67 MA's), (Start: 53 @23639 has 13 MA's), (Start: 59 @23666 has 4 MA's), (63, 23678), (65, 23705), (72, 23750), (73, 23759), (78, 23798), (90, 23870), (93, 23882), (94, 23885), (95, 23897), (98, 23915), (109, 23960), (116, 23984), (131, 24083), (137, 24113), (138, 24116), (140, 24137),

Gene: Cicada_42 Start: 26852, Stop: 27460, Start Num: 39
Candidate Starts for Cicada_42:
(Start: 39 @26852 has 9 MA's), (Start: 43 @26858 has 1 MA's), (68, 26993), (80, 27065), (82, 27077), (83, 27083), (93, 27143), (111, 27224), (125, 27299), (138, 27365), (142, 27395), (147, 27434),

Gene: CristinaYang_30 Start: 23631, Stop: 24182, Start Num: 51
Candidate Starts for CristinaYang_30:
(Start: 44 @23607 has 3 MA's), (Start: 51 @23631 has 67 MA's), (Start: 53 @23643 has 13 MA's), (Start: 59 @23670 has 4 MA's), (63, 23682), (65, 23709), (72, 23754), (73, 23763), (78, 23802), (90, 23874), (93, 23886), (94, 23889), (95, 23901), (98, 23919), (109, 23964), (116, 23988), (131, 24087), (137, 24117), (138, 24120), (140, 24141),

Gene: Crosby_44 Start: 33342, Stop: 34043, Start Num: 27
Candidate Starts for Crosby_44:
(Start: 27 @33342 has 7 MA's), (29, 33366), (38, 33411), (56, 33489), (Start: 59 @33513 has 4 MA's), (63, 33528), (64, 33549), (67, 33579), (80, 33633), (81, 33642), (105, 33768), (114, 33807), (146, 34020), (148, 34029),

Gene: Daiboju_31 Start: 24770, Stop: 25330, Start Num: 51
Candidate Starts for Daiboju_31:
(Start: 51 @24770 has 67 MA's), (Start: 53 @24782 has 13 MA's), (Start: 59 @24809 has 4 MA's), (64, 24842), (65, 24848), (71, 24887), (73, 24902), (93, 25025), (95, 25040), (99, 25064), (109, 25103), (116, 25127), (122, 25166), (124, 25184), (130, 25223), (135, 25238), (138, 25259), (140, 25280),

Gene: Dino_34 Start: 25199, Stop: 25744, Start Num: 53
Candidate Starts for Dino_34:
(11, 24926), (25, 25040), (Start: 44 @25163 has 3 MA's), (Start: 51 @25187 has 67 MA's), (Start: 53 @25199 has 13 MA's), (Start: 59 @25226 has 4 MA's), (63, 25238), (64, 25259), (65, 25265), (72, 25310), (73, 25319), (78, 25358), (79, 25361), (84, 25385), (90, 25430), (93, 25442), (95, 25457), (98, 25475), (99, 25481), (102, 25490), (109, 25520), (116, 25544), (131, 25643), (138, 25676), (140, 25697),

Gene: DrRobert_30 Start: 23627, Stop: 24184, Start Num: 51
Candidate Starts for DrRobert_30:
(Start: 44 @23603 has 3 MA's), (Start: 51 @23627 has 67 MA's), (Start: 53 @23639 has 13 MA's), (Start: 59 @23666 has 4 MA's), (63, 23678), (65, 23705), (72, 23750), (73, 23759), (78, 23798), (90, 23870), (93, 23882), (94, 23885), (95, 23897), (98, 23915), (109, 23960), (110, 23963), (116, 23984), (131, 24083), (137, 24113), (138, 24116), (140, 24137),

Gene: DreamTeam_30 Start: 23722, Stop: 24273, Start Num: 51
Candidate Starts for DreamTeam_30:
(10, 23443), (11, 23446), (34, 23638), (47, 23701), (Start: 51 @23722 has 67 MA's), (Start: 53 @23734 has 13 MA's), (Start: 59 @23761 has 4 MA's), (63, 23773), (64, 23794), (65, 23800), (71, 23839), (73, 23854), (90, 23965), (93, 23977), (94, 23980), (95, 23992), (98, 24010), (99, 24016), (101, 24022), (109, 24055), (114, 24073), (116, 24079), (124, 24136), (131, 24178), (137, 24208), (138, 24211), (140, 24232),

Gene: EstebanJulior_31 Start: 24817, Stop: 25374, Start Num: 51
Candidate Starts for EstebanJulior_31:
(34, 24760), (Start: 51 @24817 has 67 MA's), (Start: 53 @24829 has 13 MA's), (Start: 59 @24856 has 4 MA's), (63, 24868), (65, 24895), (72, 24940), (73, 24949), (79, 24991), (90, 25060), (93, 25072), (94, 25075), (95, 25087), (98, 25105), (99, 25111), (109, 25150), (110, 25153), (114, 25168), (116, 25174), (131, 25273), (138, 25306), (140, 25327),

Gene: Eunoia_31 Start: 24783, Stop: 25343, Start Num: 51
Candidate Starts for Eunoia_31:
(32, 24711), (50, 24774), (Start: 51 @24783 has 67 MA's), (Start: 53 @24795 has 13 MA's), (Start: 59 @24822 has 4 MA's), (63, 24834), (64, 24855), (65, 24861), (71, 24900), (73, 24915), (93, 25038), (94, 25041), (95, 25053), (99, 25077), (109, 25116), (115, 25137), (116, 25140), (119, 25155), (122, 25179), (124, 25197), (130, 25236), (135, 25251), (138, 25272), (140, 25293),

Gene: FireCastle_40 Start: 26550, Stop: 27158, Start Num: 39
Candidate Starts for FireCastle_40:
(20, 26418), (23, 26442), (26, 26487), (Start: 39 @26550 has 9 MA's), (64, 26658), (68, 26691), (80, 26763), (82, 26775), (83, 26781), (90, 26829), (93, 26841), (111, 26922), (121, 26970), (125, 26997), (147, 27132),

Gene: Fluke_35 Start: 25328, Stop: 25885, Start Num: 51
Candidate Starts for Fluke_35:
(25, 25181), (Start: 44 @25304 has 3 MA's), (Start: 51 @25328 has 67 MA's), (Start: 53 @25340 has 13 MA's), (Start: 59 @25367 has 4 MA's), (64, 25400), (65, 25406), (71, 25445), (73, 25460), (79, 25502), (84, 25526), (90, 25571), (93, 25583), (94, 25586), (95, 25598), (98, 25616), (99, 25622), (109, 25661), (114, 25679), (115, 25682), (116, 25685), (131, 25784), (137, 25814), (138, 25817), (140, 25838),

Gene: Frizzle_32 Start: 30551, Stop: 30084, Start Num: 59
Candidate Starts for Frizzle_32:
(Start: 53 @30581 has 13 MA's), (58, 30557), (Start: 59 @30551 has 4 MA's), (63, 30536), (70, 30485), (110, 30275),

Gene: Galactica_60 Start: 45960, Stop: 46460, Start Num: 48
Candidate Starts for Galactica_60:
(22, 45777), (Start: 48 @45960 has 4 MA's), (57, 46005), (88, 46200), (94, 46227), (97, 46251), (103, 46278), (123, 46368),

Gene: Ghobes_33 Start: 30552, Stop: 30085, Start Num: 59
Candidate Starts for Ghobes_33:
(Start: 53 @30582 has 13 MA's), (58, 30558), (Start: 59 @30552 has 4 MA's), (63, 30537), (70, 30486), (110, 30276),

Gene: Gisselle_30 Start: 23722, Stop: 24273, Start Num: 51
Candidate Starts for Gisselle_30:
(10, 23443), (11, 23446), (34, 23638), (47, 23701), (Start: 51 @23722 has 67 MA's), (Start: 53 @23734 has 13 MA's), (Start: 59 @23761 has 4 MA's), (63, 23773), (64, 23794), (65, 23800), (71, 23839), (73, 23854), (90, 23965), (93, 23977), (94, 23980), (95, 23992), (98, 24010), (99, 24016), (101, 24022), (109, 24055), (114, 24073), (116, 24079), (124, 24136), (131, 24178), (137, 24208), (138, 24211), (140, 24232),

Gene: Glenn_34 Start: 25199, Stop: 25780, Start Num: 44
Candidate Starts for Glenn_34:

(25, 25076), (Start: 44 @25199 has 3 MA's), (Start: 51 @25223 has 67 MA's), (Start: 53 @25235 has 13 MA's), (Start: 59 @25262 has 4 MA's), (63, 25274), (64, 25295), (65, 25301), (72, 25346), (73, 25355), (78, 25394), (90, 25466), (93, 25478), (95, 25493), (98, 25511), (99, 25517), (102, 25526), (109, 25556), (116, 25580), (131, 25679), (138, 25712), (140, 25733),

Gene: Goodman_41 Start: 26757, Stop: 27365, Start Num: 39
Candidate Starts for Goodman_41:
(Start: 39 @26757 has 9 MA's), (Start: 43 @26763 has 1 MA's), (68, 26898), (80, 26970), (82, 26982), (83, 26988), (93, 27048), (111, 27129), (125, 27204), (129, 27228), (142, 27300), (147, 27339),

Gene: Graynor_37 Start: 25220, Stop: 25765, Start Num: 53
Candidate Starts for Graynor_37:
(47, 25187), (Start: 51 @25208 has 67 MA's), (Start: 53 @25220 has 13 MA's), (Start: 59 @25247 has 4 MA's), (63, 25259), (64, 25280), (65, 25286), (70, 25322), (71, 25325), (72, 25331), (73, 25340), (77, 25370), (84, 25406), (85, 25409), (93, 25463), (95, 25478), (99, 25502), (109, 25541), (113, 25553), (115, 25562), (116, 25565), (124, 25622), (137, 25694), (138, 25697), (140, 25718),

Gene: GreenHearts_33 Start: 25238, Stop: 25795, Start Num: 51
Candidate Starts for GreenHearts_33:
(Start: 51 @25238 has 67 MA's), (Start: 53 @25250 has 13 MA's), (Start: 59 @25277 has 4 MA's), (63, 25289), (65, 25316), (73, 25370), (77, 25400), (93, 25493), (95, 25508), (99, 25532), (109, 25571), (116, 25595), (119, 25610), (137, 25724), (138, 25727), (140, 25748), (144, 25775),

Gene: Greenhouse_33 Start: 25152, Stop: 25709, Start Num: 51
Candidate Starts for Greenhouse_33:
(49, 25140), (Start: 51 @25152 has 67 MA's), (Start: 53 @25164 has 13 MA's), (Start: 59 @25191 has 4 MA's), (63, 25203), (65, 25230), (73, 25284), (77, 25314), (93, 25407), (95, 25422), (99, 25446), (109, 25485), (116, 25509), (119, 25524), (137, 25638), (138, 25641), (140, 25662), (144, 25689),

Gene: HeadNerd_30 Start: 23623, Stop: 24180, Start Num: 51
Candidate Starts for HeadNerd_30:
(Start: 51 @23623 has 67 MA's), (Start: 53 @23635 has 13 MA's), (Start: 59 @23662 has 4 MA's), (63, 23674), (64, 23695), (65, 23701), (72, 23746), (73, 23755), (90, 23866), (93, 23878), (94, 23881), (95, 23893), (99, 23917), (109, 23956), (116, 23980), (131, 24079), (138, 24112), (140, 24133),

Gene: Henoccus_44 Start: 33096, Stop: 33767, Start Num: 31
Candidate Starts for Henoccus_44:
(2, 32676), (3, 32715), (5, 32835), (6, 32874), (7, 32883), (10, 32934), (15, 32979), (Start: 31 @33096 has 5 MA's), (Start: 41 @33147 has 8 MA's), (Start: 59 @33225 has 4 MA's), (61, 33231), (67, 33291), (74, 33321), (76, 33333), (81, 33366), (92, 33432), (105, 33492), (115, 33534), (118, 33552), (133, 33642), (134, 33645), (143, 33723), (146, 33744), (148, 33753),

Gene: Herb_31 Start: 24769, Stop: 25329, Start Num: 51
Candidate Starts for Herb_31:
(Start: 51 @24769 has 67 MA's), (Start: 53 @24781 has 13 MA's), (Start: 59 @24808 has 4 MA's), (64, 24841), (65, 24847), (71, 24886), (73, 24901), (93, 25024), (95, 25039), (99, 25063), (109, 25102), (116, 25126), (122, 25165), (124, 25183), (130, 25222), (135, 25237), (138, 25258), (140, 25279),

Gene: Hiyaa_62 Start: 47242, Stop: 47736, Start Num: 48
Candidate Starts for Hiyaa_62:
(14, 47035), (17, 47062), (Start: 45 @47236 has 1 MA's), (Start: 48 @47242 has 4 MA's), (Start: 59 @47299 has 4 MA's), (87, 47461), (88, 47476), (89, 47482), (97, 47527), (128, 47686), (136, 47716),

Gene: Htur_40 Start: 26856, Stop: 27461, Start Num: 39
Candidate Starts for Htur_40:
(30, 26814), (Start: 39 @26856 has 9 MA's), (Start: 43 @26862 has 1 MA's), (64, 26961), (68, 26994), (80, 27066), (83, 27084), (85, 27090), (93, 27144), (99, 27183), (108, 27213), (113, 27231), (120, 27258), (125, 27300), (126, 27312), (147, 27435),

Gene: Huckleberry_30 Start: 23611, Stop: 24168, Start Num: 51
Candidate Starts for Huckleberry_30:
(9, 23338), (11, 23350), (19, 23401), (Start: 51 @23611 has 67 MA's), (Start: 53 @23623 has 13 MA's), (Start: 59 @23650 has 4 MA's), (63, 23662), (65, 23689), (72, 23734), (73, 23743), (90, 23854), (93, 23866), (94, 23869), (95, 23881), (99, 23905), (109, 23944), (116, 23968), (131, 24067), (137, 24097), (138, 24100), (140, 24121),

Gene: HunterDalle_31 Start: 24780, Stop: 25340, Start Num: 51
Candidate Starts for HunterDalle_31:
(32, 24708), (50, 24771), (Start: 51 @24780 has 67 MA's), (Start: 53 @24792 has 13 MA's), (Start: 59 @24819 has 4 MA's), (63, 24831), (64, 24852), (65, 24858), (71, 24897), (73, 24912), (93, 25035), (95, 25050), (99, 25074), (109, 25113), (115, 25134), (116, 25137), (130, 25233), (138, 25269), (140, 25290), (145, 25332),

Gene: Huntingdon_33 Start: 25142, Stop: 25687, Start Num: 53
Candidate Starts for Huntingdon_33:
(Start: 51 @25130 has 67 MA's), (Start: 53 @25142 has 13 MA's), (Start: 59 @25169 has 4 MA's), (63, 25181), (64, 25202), (65, 25208), (73, 25262), (77, 25292), (93, 25385), (94, 25388), (95, 25400), (99, 25424), (109, 25463), (115, 25484), (116, 25487), (119, 25502), (131, 25586), (138, 25619), (140, 25640), (144, 25667),

Gene: Immaculata_34 Start: 25194, Stop: 25775, Start Num: 44
Candidate Starts for Immaculata_34:
(25, 25071), (Start: 44 @25194 has 3 MA's), (Start: 51 @25218 has 67 MA's), (Start: 59 @25257 has 4 MA's), (63, 25269), (64, 25290), (65, 25296), (72, 25341), (73, 25350), (78, 25389), (90, 25461), (93, 25473), (95, 25488), (98, 25506), (99, 25512), (102, 25521), (109, 25551), (116, 25575), (131, 25674), (138, 25707), (140, 25728),

Gene: IndiRoo_41 Start: 25292, Stop: 25900, Start Num: 40
Candidate Starts for IndiRoo_41:
(18, 25115), (28, 25223), (30, 25241), (Start: 40 @25292 has 4 MA's), (64, 25400), (68, 25433), (80, 25505), (82, 25517), (83, 25523), (84, 25526), (85, 25529), (90, 25571), (93, 25583), (99, 25622), (113, 25670), (120, 25697), (122, 25715), (125, 25739), (147, 25874),

Gene: Intolerant_43 Start: 33235, Stop: 33990, Start Num: 27
Candidate Starts for Intolerant_43:
(5, 32980), (6, 33019), (7, 33028), (10, 33079), (13, 33094), (15, 33124), (Start: 27 @33235 has 7 MA's), (38, 33304), (56, 33382), (Start: 59 @33406 has 4 MA's), (63, 33421), (64, 33442), (80, 33580), (81, 33589), (105, 33715), (146, 33967), (148, 33976),

Gene: JackieB_44 Start: 32935, Stop: 33606, Start Num: 31
Candidate Starts for JackieB_44:
(2, 32515), (3, 32554), (5, 32674), (6, 32713), (7, 32722), (10, 32773), (15, 32818), (Start: 31 @32935 has 5 MA's), (Start: 41 @32986 has 8 MA's), (Start: 59 @33064 has 4 MA's), (61, 33070), (67, 33130), (74, 33160), (76, 33172), (81, 33205), (92, 33271), (105, 33331), (115, 33373), (118, 33391), (133, 33481), (134, 33484), (143, 33562), (146, 33583), (148, 33592),

Gene: Jera_41 Start: 25784, Stop: 26392, Start Num: 41
Candidate Starts for Jera_41:
(Start: 41 @25784 has 8 MA's), (42, 25787), (Start: 43 @25790 has 1 MA's), (82, 26009), (83, 26015), (93, 26075), (111, 26156), (125, 26231), (126, 26243), (147, 26366),

Gene: Joann_33 Start: 25123, Stop: 25680, Start Num: 51
Candidate Starts for Joann_33:
(Start: 51 @25123 has 67 MA's), (Start: 53 @25135 has 13 MA's), (Start: 59 @25162 has 4 MA's), (63, 25174), (65, 25201), (73, 25255), (93, 25378), (95, 25393), (99, 25417), (109, 25456), (116, 25480), (119, 25495), (131, 25579), (138, 25612), (140, 25633), (144, 25660),

Gene: Johann_41 Start: 26757, Stop: 27365, Start Num: 39
Candidate Starts for Johann_41:
(Start: 39 @26757 has 9 MA's), (Start: 43 @26763 has 1 MA's), (68, 26898), (80, 26970), (82, 26982), (83, 26988), (93, 27048), (111, 27129), (125, 27204), (129, 27228), (142, 27300), (147, 27339),

Gene: Jumboset_34 Start: 25166, Stop: 25720, Start Num: 51
Candidate Starts for Jumboset_34:
(11, 24905), (25, 25019), (Start: 44 @25142 has 3 MA's), (Start: 51 @25166 has 67 MA's), (Start: 53 @25178 has 13 MA's), (Start: 59 @25202 has 4 MA's), (64, 25235), (65, 25241), (73, 25295), (78, 25334), (90, 25406), (93, 25418), (94, 25421), (95, 25433), (98, 25451), (99, 25457), (102, 25466), (109, 25496), (116, 25520), (131, 25619), (138, 25652), (140, 25673),

Gene: Kalizoi_34 Start: 25165, Stop: 25722, Start Num: 51
Candidate Starts for Kalizoi_34:
(11, 24904), (25, 25018), (Start: 44 @25141 has 3 MA's), (Start: 51 @25165 has 67 MA's), (Start: 53 @25177 has 13 MA's), (Start: 59 @25204 has 4 MA's), (63, 25216), (64, 25237), (65, 25243), (72, 25288), (73, 25297), (78, 25336), (79, 25339), (84, 25363), (90, 25408), (93, 25420), (95, 25435), (98, 25453), (99, 25459), (102, 25468), (109, 25498), (116, 25522), (131, 25621), (138, 25654), (140, 25675),

Gene: Keanu_60 Start: 46991, Stop: 47491, Start Num: 48
Candidate Starts for Keanu_60:
(22, 46808), (Start: 48 @46991 has 4 MA's), (Start: 59 @47051 has 4 MA's), (77, 47165), (84, 47198), (87, 47216), (88, 47231), (89, 47237), (97, 47282), (123, 47399), (132, 47459),

Gene: KingBob_31 Start: 24770, Stop: 25330, Start Num: 51
Candidate Starts for KingBob_31:
(Start: 51 @24770 has 67 MA's), (Start: 53 @24782 has 13 MA's), (Start: 59 @24809 has 4 MA's), (64, 24842), (65, 24848), (71, 24887), (73, 24902), (93, 25025), (95, 25040), (99, 25064), (109, 25103), (116, 25127), (122, 25166), (124, 25184), (130, 25223), (135, 25238), (138, 25259), (140, 25280),

Gene: Kittykat_31 Start: 23824, Stop: 24381, Start Num: 51
Candidate Starts for Kittykat_31:
(Start: 51 @23824 has 67 MA's), (Start: 53 @23836 has 13 MA's), (Start: 59 @23863 has 4 MA's), (63, 23875), (64, 23896), (65, 23902), (71, 23941), (73, 23956), (77, 23986), (90, 24067), (93, 24079), (95, 24094), (99, 24118), (109, 24157), (115, 24178), (116, 24181), (124, 24238), (131, 24280), (138, 24313), (140, 24334),

Gene: Kokushibo_62 Start: 47317, Stop: 47811, Start Num: 48
Candidate Starts for Kokushibo_62:
(Start: 48 @47317 has 4 MA's), (50, 47323), (58, 47368), (Start: 59 @47374 has 4 MA's), (84, 47518), (87, 47536), (88, 47551), (89, 47557), (97, 47602), (128, 47761), (136, 47791),

Gene: Korra_34 Start: 25199, Stop: 25744, Start Num: 53
Candidate Starts for Korra_34:
(11, 24926), (25, 25040), (Start: 44 @25163 has 3 MA's), (Start: 51 @25187 has 67 MA's), (Start: 53 @25199 has 13 MA's), (Start: 59 @25226 has 4 MA's), (63, 25238), (65, 25265), (72, 25310), (73, 25319), (78, 25358), (84, 25385), (90, 25430), (93, 25442), (94, 25445), (95, 25457), (98, 25475), (99, 25481), (102, 25490), (109, 25520), (116, 25544), (131, 25643), (138, 25676), (140, 25697),

Gene: Labella_42 Start: 26650, Stop: 27258, Start Num: 41
Candidate Starts for Labella_42:
(Start: 41 @26650 has 8 MA's), (Start: 43 @26656 has 1 MA's), (54, 26695), (64, 26758), (68, 26791), (80, 26863), (82, 26875), (83, 26881), (93, 26941), (111, 27022), (125, 27097), (126, 27109), (147, 27232),

Gene: Lakshmi_33 Start: 25122, Stop: 25679, Start Num: 51
Candidate Starts for Lakshmi_33:
(Start: 51 @25122 has 67 MA's), (Start: 53 @25134 has 13 MA's), (Start: 59 @25161 has 4 MA's), (63, 25173), (65, 25200), (73, 25254), (77, 25284), (93, 25377), (95, 25392), (99, 25416), (109, 25455), (116, 25479), (119, 25494), (137, 25608), (138, 25611), (140, 25632), (144, 25659),

Gene: Lasagna_30 Start: 23642, Stop: 24199, Start Num: 51
Candidate Starts for Lasagna_30:
(Start: 51 @23642 has 67 MA's), (Start: 53 @23654 has 13 MA's), (Start: 59 @23681 has 4 MA's), (63, 23693), (65, 23720), (72, 23765), (73, 23774), (78, 23813), (90, 23885), (93, 23897), (94, 23900), (95, 23912), (98, 23930), (109, 23975), (115, 23996), (116, 23999), (131, 24098), (137, 24128), (138, 24131), (140, 24152),

Gene: LazerLemon_44 Start: 33723, Stop: 34394, Start Num: 31
Candidate Starts for LazerLemon_44:
(1, 33294), (2, 33312), (3, 33351), (5, 33471), (6, 33510), (7, 33519), (10, 33570), (15, 33615), (Start: 31 @33723 has 5 MA's), (Start: 41 @33771 has 8 MA's), (67, 33915), (74, 33945), (81, 33990), (91, 34053), (92, 34056), (105, 34116), (117, 34173), (133, 34269), (134, 34272), (146, 34371), (148, 34380),

Gene: Lennox_30 Start: 23615, Stop: 24166, Start Num: 51
Candidate Starts for Lennox_30:
(Start: 44 @23591 has 3 MA's), (Start: 51 @23615 has 67 MA's), (Start: 53 @23627 has 13 MA's), (Start: 59 @23654 has 4 MA's), (63, 23666), (65, 23693), (72, 23738), (73, 23747), (78, 23786), (90, 23858), (93, 23870), (94, 23873), (95, 23885), (98, 23903), (109, 23948), (116, 23972), (131, 24071), (137, 24101), (138, 24104), (140, 24125),

Gene: LilStuart_30 Start: 23619, Stop: 24170, Start Num: 51
Candidate Starts for LilStuart_30:
(Start: 44 @23595 has 3 MA's), (Start: 51 @23619 has 67 MA's), (Start: 53 @23631 has 13 MA's), (Start: 59 @23658 has 4 MA's), (63, 23670), (65, 23697), (72, 23742), (73, 23751), (78, 23790), (90, 23862), (93, 23874), (94, 23877), (95, 23889), (98, 23907), (109, 23952), (116, 23976), (131, 24075), (137, 24105), (138, 24108), (140, 24129),

Gene: Linayshia_40 Start: 26824, Stop: 27429, Start Num: 39
Candidate Starts for Linayshia_40:
(30, 26782), (Start: 39 @26824 has 9 MA's), (Start: 43 @26830 has 1 MA's), (64, 26929), (68, 26962), (80, 27034), (83, 27052), (85, 27058), (93, 27112), (99, 27151), (108, 27181), (113, 27199), (120, 27226), (125, 27268), (126, 27280), (147, 27403),

Gene: Litotes_34 Start: 25172, Stop: 25729, Start Num: 51
Candidate Starts for Litotes_34:
(8, 24857), (9, 24884), (11, 24896), (12, 24899), (34, 25088), (37, 25106), (47, 25151), (Start: 51 @25172 has 67 MA's), (Start: 53 @25184 has 13 MA's), (Start: 59 @25211 has 4 MA's), (63, 25223), (64, 25244), (65, 25250), (72, 25295), (73, 25304), (77, 25334), (93, 25427), (94, 25430), (95, 25442), (99, 25466), (109, 25505), (115, 25526), (116, 25529), (137, 25658), (138, 25661), (140, 25682),

Gene: Lucy_30 Start: 23619, Stop: 24158, Start Num: 53
Candidate Starts for Lucy_30:
(Start: 44 @23583 has 3 MA's), (Start: 51 @23607 has 67 MA's), (Start: 53 @23619 has 13 MA's), (Start: 59 @23646 has 4 MA's), (63, 23658), (72, 23730), (73, 23739), (78, 23778), (90, 23850), (93, 23862), (95, 23877), (98, 23895), (109, 23940), (116, 23964), (131, 24063), (137, 24093), (138, 24096), (140, 24117),

Gene: Makoto_30 Start: 23627, Stop: 24178, Start Num: 51
Candidate Starts for Makoto_30:
(Start: 44 @23603 has 3 MA's), (Start: 51 @23627 has 67 MA's), (Start: 53 @23639 has 13 MA's), (Start: 59 @23666 has 4 MA's), (63, 23678), (65, 23705), (72, 23750), (73, 23759), (78, 23798), (90, 23870), (93, 23882), (94, 23885), (95, 23897), (98, 23915), (109, 23960), (116, 23984), (131, 24083), (137, 24113), (138, 24116), (140, 24137),

Gene: MamaPearl_31 Start: 24817, Stop: 25374, Start Num: 51
Candidate Starts for MamaPearl_31:
(34, 24760), (Start: 51 @24817 has 67 MA's), (Start: 53 @24829 has 13 MA's), (Start: 59 @24856 has 4 MA's), (63, 24868), (65, 24895), (72, 24940), (73, 24949), (79, 24991), (90, 25060), (93, 25072), (94, 25075), (95, 25087), (98, 25105), (99, 25111), (109, 25150), (110, 25153), (114, 25168), (116, 25174), (131, 25273), (138, 25306), (140, 25327),

Gene: Marky_46 Start: 33813, Stop: 34481, Start Num: 31
Candidate Starts for Marky_46:
(2, 33393), (3, 33432), (4, 33543), (6, 33588), (7, 33597), (10, 33657), (13, 33672), (15, 33702), (Start: 31 @33813 has 5 MA's), (36, 33834), (Start: 41 @33861 has 8 MA's), (63, 33954), (64, 33975), (67, 34005), (74, 34035), (80, 34071), (81, 34080), (92, 34146), (101, 34194), (105, 34206), (115, 34248), (118, 34266), (133, 34356), (134, 34359), (148, 34467), (149, 34470),

Gene: MeganNoll_33 Start: 25235, Stop: 25777, Start Num: 53
Candidate Starts for MeganNoll_33:
(11, 24962), (25, 25076), (Start: 44 @25199 has 3 MA's), (Start: 51 @25223 has 67 MA's), (Start: 53 @25235 has 13 MA's), (Start: 59 @25259 has 4 MA's), (64, 25292), (65, 25298), (73, 25352), (78, 25391), (90, 25463), (93, 25475), (94, 25478), (95, 25490), (98, 25508), (99, 25514), (102, 25523), (109, 25553), (116, 25577), (131, 25676), (138, 25709), (140, 25730),

Gene: Microdon_43 Start: 33041, Stop: 33796, Start Num: 27
Candidate Starts for Microdon_43:
(Start: 27 @33041 has 7 MA's), (29, 33065), (38, 33110), (55, 33185), (Start: 59 @33212 has 4 MA's), (60, 33215), (63, 33227), (64, 33248), (65, 33254), (80, 33386), (81, 33395), (105, 33521), (116, 33566), (146, 33773), (148, 33782),

Gene: Milani_39 Start: 25369, Stop: 25977, Start Num: 41
Candidate Starts for Milani_39:
(Start: 41 @25369 has 8 MA's), (66, 25498), (83, 25600), (93, 25660), (100, 25702), (111, 25741), (120, 25774), (122, 25792), (125, 25816), (127, 25834), (129, 25840), (138, 25882), (147, 25951),

Gene: Misaeng_33 Start: 25361, Stop: 25918, Start Num: 51
Candidate Starts for Misaeng_33:
(Start: 51 @25361 has 67 MA's), (Start: 53 @25373 has 13 MA's), (Start: 59 @25400 has 4 MA's), (63, 25412), (65, 25439), (73, 25493), (77, 25523), (93, 25616), (94, 25619), (95, 25631), (99, 25655), (109, 25694), (116, 25718), (119, 25733), (131, 25817), (138, 25850), (140, 25871), (144, 25898),

Gene: Moki_30 Start: 23611, Stop: 24168, Start Num: 51
Candidate Starts for Moki_30:
(9, 23338), (11, 23350), (19, 23401), (Start: 51 @23611 has 67 MA's), (Start: 53 @23623 has 13 MA's), (Start: 59 @23650 has 4 MA's), (63, 23662), (65, 23689), (72, 23734), (73, 23743), (90, 23854), (93, 23866), (94, 23869), (95, 23881), (99, 23905), (109, 23944), (116, 23968), (131, 24067), (137, 24097), (138, 24100), (140, 24121),

Gene: MrBoss_36 Start: 25184, Stop: 25729, Start Num: 53
Candidate Starts for MrBoss_36:
(8, 24857), (9, 24884), (12, 24899), (34, 25088), (37, 25106), (47, 25151), (Start: 51 @25172 has 67 MA's), (Start: 53 @25184 has 13 MA's), (Start: 59 @25211 has 4 MA's), (63, 25223), (64, 25244), (65, 25250), (72, 25295), (73, 25304), (77, 25334), (85, 25373), (93, 25427), (94, 25430), (95, 25442), (99, 25466), (109, 25505), (113, 25517), (115, 25526), (116, 25529), (124, 25586), (137, 25658), (138, 25661), (140, 25682),

Gene: MrGloopy_34 Start: 25157, Stop: 25711, Start Num: 51
Candidate Starts for MrGloopy_34:
(11, 24896), (25, 25010), (Start: 44 @25133 has 3 MA's), (Start: 51 @25157 has 67 MA's), (Start: 53 @25169 has 13 MA's), (Start: 59 @25193 has 4 MA's), (64, 25226), (65, 25232), (73, 25286), (78, 25325), (79, 25328), (84, 25352), (90, 25397), (93, 25409), (95, 25424), (98, 25442), (99, 25448), (102, 25457), (109, 25487), (116, 25511), (131, 25610), (138, 25643), (140, 25664),

Gene: Nancia_30 Start: 23631, Stop: 24182, Start Num: 51
Candidate Starts for Nancia_30:
(Start: 44 @23607 has 3 MA's), (Start: 51 @23631 has 67 MA's), (Start: 53 @23643 has 13 MA's), (Start: 59 @23670 has 4 MA's), (63, 23682), (65, 23709), (72, 23754), (73, 23763), (78, 23802), (90, 23874), (93, 23886), (94, 23889), (95, 23901), (98, 23919), (109, 23964), (116, 23988), (131, 24087), (137, 24117), (138, 24120), (140, 24141),

Gene: Nubia_33 Start: 25071, Stop: 25628, Start Num: 51
Candidate Starts for Nubia_33:
(Start: 51 @25071 has 67 MA's), (Start: 53 @25083 has 13 MA's), (Start: 59 @25110 has 4 MA's), (63, 25122), (65, 25149), (73, 25203), (77, 25233), (93, 25326), (94, 25329), (95, 25341), (99, 25365), (109, 25404), (115, 25425), (116, 25428), (119, 25443), (131, 25527), (138, 25560), (140, 25581), (144, 25608),

Gene: OMalley_31 Start: 24783, Stop: 25343, Start Num: 51
Candidate Starts for OMalley_31:
(32, 24711), (50, 24774), (Start: 51 @24783 has 67 MA's), (Start: 53 @24795 has 13 MA's), (Start: 59 @24822 has 4 MA's), (63, 24834), (64, 24855), (65, 24861), (71, 24900), (73, 24915), (93, 25038), (94, 25041), (95, 25053), (99, 25077), (109, 25116), (115, 25137), (116, 25140), (119, 25155), (122, 25179), (124, 25197), (130, 25236), (135, 25251), (138, 25272), (140, 25293),

Gene: Olympi_42 Start: 26627, Stop: 27235, Start Num: 41
Candidate Starts for Olympi_42:

(Start: 41 @26627 has 8 MA's), (Start: 43 @26633 has 1 MA's), (54, 26672), (64, 26735), (80, 26840), (82, 26852), (83, 26858), (93, 26918), (111, 26999), (125, 27074), (126, 27086), (147, 27209),

Gene: OurGirlNessie_30 Start: 23608, Stop: 24165, Start Num: 51
Candidate Starts for OurGirlNessie_30:
(Start: 44 @23584 has 3 MA's), (Start: 51 @23608 has 67 MA's), (Start: 53 @23620 has 13 MA's), (Start: 59 @23647 has 4 MA's), (63, 23659), (65, 23686), (72, 23731), (73, 23740), (78, 23779), (90, 23851), (93, 23863), (94, 23866), (95, 23878), (98, 23896), (109, 23941), (116, 23965), (131, 24064), (137, 24094), (138, 24097), (140, 24118),

Gene: Oxynfrius_33 Start: 25096, Stop: 25653, Start Num: 51
Candidate Starts for Oxynfrius_33:
(Start: 51 @25096 has 67 MA's), (Start: 53 @25108 has 13 MA's), (Start: 59 @25135 has 4 MA's), (63, 25147), (65, 25174), (73, 25228), (77, 25258), (93, 25351), (95, 25366), (99, 25390), (109, 25429), (115, 25450), (116, 25453), (119, 25468), (137, 25582), (138, 25585), (140, 25606), (144, 25633),

Gene: PartyCup_34 Start: 25231, Stop: 25776, Start Num: 53
Candidate Starts for PartyCup_34:
(8, 24904), (9, 24931), (12, 24946), (34, 25135), (37, 25153), (47, 25198), (Start: 51 @25219 has 67 MA's), (Start: 53 @25231 has 13 MA's), (Start: 59 @25258 has 4 MA's), (63, 25270), (64, 25291), (65, 25297), (72, 25342), (73, 25351), (77, 25381), (85, 25420), (93, 25474), (95, 25489), (99, 25513), (109, 25552), (115, 25573), (116, 25576), (124, 25633), (137, 25705), (138, 25708), (140, 25729),

Gene: Parvaparticeps_11 Start: 7129, Stop: 7770, Start Num: 33
Candidate Starts for Parvaparticeps_11:
(33, 7129), (65, 7279), (78, 7375), (84, 7402), (85, 7405), (93, 7459), (101, 7504), (104, 7516), (122, 7594), (125, 7618), (138, 7687), (141, 7708),

Gene: PermaG_41 Start: 26661, Stop: 27269, Start Num: 39
Candidate Starts for PermaG_41:
(16, 26508), (Start: 39 @26661 has 9 MA's), (42, 26664), (Start: 43 @26667 has 1 MA's), (82, 26886), (83, 26892), (93, 26952), (125, 27108), (126, 27120), (142, 27204), (147, 27243),

Gene: PinkFriday_30 Start: 23660, Stop: 24220, Start Num: 51
Candidate Starts for PinkFriday_30:
(Start: 51 @23660 has 67 MA's), (Start: 53 @23672 has 13 MA's), (Start: 59 @23699 has 4 MA's), (64, 23732), (65, 23738), (71, 23777), (73, 23792), (93, 23915), (94, 23918), (95, 23930), (99, 23954), (109, 23993), (115, 24014), (116, 24017), (119, 24032), (122, 24056), (124, 24074), (130, 24113), (135, 24128), (138, 24149), (140, 24170),

Gene: PitaDog_30 Start: 23618, Stop: 24169, Start Num: 51
Candidate Starts for PitaDog_30:
(Start: 44 @23594 has 3 MA's), (Start: 51 @23618 has 67 MA's), (Start: 53 @23630 has 13 MA's), (Start: 59 @23657 has 4 MA's), (63, 23669), (72, 23741), (73, 23750), (78, 23789), (90, 23861), (93, 23873), (94, 23876), (95, 23888), (98, 23906), (109, 23951), (116, 23975), (131, 24074), (137, 24104), (138, 24107), (140, 24128),

Gene: Potatoes_34 Start: 25219, Stop: 25776, Start Num: 51
Candidate Starts for Potatoes_34:
(25, 25072), (Start: 44 @25195 has 3 MA's), (Start: 51 @25219 has 67 MA's), (Start: 59 @25258 has 4 MA's), (63, 25270), (64, 25291), (65, 25297), (72, 25342), (73, 25351), (78, 25390), (90, 25462), (93, 25474), (95, 25489), (98, 25507), (99, 25513), (102, 25522), (109, 25552), (116, 25576), (131, 25675), (138, 25708), (140, 25729),

Gene: Preamble_30 Start: 23678, Stop: 24235, Start Num: 51
Candidate Starts for Preamble_30:
(47, 23657), (Start: 51 @23678 has 67 MA's), (Start: 53 @23690 has 13 MA's), (Start: 59 @23717 has 4 MA's), (64, 23750), (65, 23756), (71, 23795), (73, 23810), (77, 23840), (90, 23921), (93, 23933), (95, 23948), (99, 23972), (109, 24011), (115, 24032), (116, 24035), (124, 24092), (131, 24134), (138, 24167), (140, 24188),

Gene: Pterodactyl_30 Start: 23609, Stop: 24160, Start Num: 51
Candidate Starts for Pterodactyl_30:
(Start: 44 @23585 has 3 MA's), (Start: 51 @23609 has 67 MA's), (Start: 53 @23621 has 13 MA's), (Start: 59 @23648 has 4 MA's), (63, 23660), (65, 23687), (72, 23732), (73, 23741), (78, 23780), (90, 23852), (93, 23864), (94, 23867), (95, 23879), (98, 23897), (109, 23942), (116, 23966), (131, 24065), (137, 24095), (138, 24098), (140, 24119),

Gene: Pumancara_30 Start: 23579, Stop: 24139, Start Num: 51
Candidate Starts for Pumancara_30:
(Start: 51 @23579 has 67 MA's), (Start: 53 @23591 has 13 MA's), (Start: 59 @23618 has 4 MA's), (64, 23651), (65, 23657), (71, 23696), (73, 23711), (93, 23834), (94, 23837), (95, 23849), (99, 23873), (109, 23912), (115, 23933), (116, 23936), (119, 23951), (122, 23975), (124, 23993), (130, 24032), (135, 24047), (138, 24068), (140, 24089),

Gene: RAP15_34 Start: 25199, Stop: 25777, Start Num: 44
Candidate Starts for RAP15_34:
(11, 24962), (25, 25076), (Start: 44 @25199 has 3 MA's), (Start: 51 @25223 has 67 MA's), (Start: 53 @25235 has 13 MA's), (Start: 59 @25259 has 4 MA's), (64, 25292), (65, 25298), (73, 25352), (78, 25391), (90, 25463), (93, 25475), (94, 25478), (95, 25490), (98, 25508), (99, 25514), (102, 25523), (109, 25553), (116, 25577), (131, 25676), (138, 25709), (140, 25730),

Gene: Rasovi_40 Start: 26856, Stop: 27461, Start Num: 39
Candidate Starts for Rasovi_40:
(24, 26760), (Start: 39 @26856 has 9 MA's), (Start: 43 @26862 has 1 MA's), (64, 26961), (68, 26994), (80, 27066), (83, 27084), (85, 27090), (93, 27144), (99, 27183), (108, 27213), (120, 27258), (125, 27300), (126, 27312), (147, 27435),

Gene: RcigaStruga_33 Start: 25142, Stop: 25687, Start Num: 53
Candidate Starts for RcigaStruga_33:
(Start: 51 @25130 has 67 MA's), (Start: 53 @25142 has 13 MA's), (Start: 59 @25169 has 4 MA's), (63, 25181), (64, 25202), (65, 25208), (73, 25262), (77, 25292), (93, 25385), (94, 25388), (95, 25400), (99, 25424), (109, 25463), (115, 25484), (116, 25487), (119, 25502), (131, 25586), (138, 25619), (140, 25640), (144, 25667),

Gene: Riovina_31 Start: 24783, Stop: 25343, Start Num: 51
Candidate Starts for Riovina_31:
(32, 24711), (50, 24774), (Start: 51 @24783 has 67 MA's), (Start: 53 @24795 has 13 MA's), (Start: 59 @24822 has 4 MA's), (63, 24834), (64, 24855), (65, 24861), (71, 24900), (73, 24915), (93, 25038), (94, 25041), (95, 25053), (99, 25077), (109, 25116), (115, 25137), (116, 25140), (119, 25155), (122, 25179), (124, 25197), (130, 25236), (135, 25251), (138, 25272), (140, 25293),

Gene: Riverdale_34 Start: 25153, Stop: 25710, Start Num: 51
Candidate Starts for Riverdale_34:
(25, 25006), (Start: 44 @25129 has 3 MA's), (Start: 51 @25153 has 67 MA's), (Start: 53 @25165 has 13 MA's), (Start: 59 @25192 has 4 MA's), (63, 25204), (64, 25225), (65, 25231), (72, 25276), (73,

25285), (78, 25324), (90, 25396), (93, 25408), (95, 25423), (98, 25441), (99, 25447), (102, 25456), (109, 25486), (116, 25510), (131, 25609), (138, 25642), (140, 25663),

Gene: Rootkit7_40 Start: 26528, Stop: 27136, Start Num: 41
Candidate Starts for Rootkit7_40:
(Start: 41 @26528 has 8 MA's), (42, 26531), (Start: 43 @26534 has 1 MA's), (82, 26753), (83, 26759), (93, 26819), (111, 26900), (125, 26975), (126, 26987), (147, 27110),

Gene: Rozby_34 Start: 25154, Stop: 25711, Start Num: 51
Candidate Starts for Rozby_34:
(25, 25007), (Start: 44 @25130 has 3 MA's), (Start: 51 @25154 has 67 MA's), (Start: 53 @25166 has 13 MA's), (Start: 59 @25193 has 4 MA's), (63, 25205), (64, 25226), (65, 25232), (72, 25277), (73, 25286), (78, 25325), (90, 25397), (93, 25409), (94, 25412), (95, 25424), (98, 25442), (99, 25448), (102, 25457), (109, 25487), (116, 25511), (131, 25610), (138, 25643), (140, 25664),

Gene: SBlackberry_40 Start: 26630, Stop: 27238, Start Num: 39
Candidate Starts for SBlackberry_40:
(Start: 39 @26630 has 9 MA's), (Start: 43 @26636 has 1 MA's), (64, 26738), (68, 26771), (80, 26843), (82, 26855), (83, 26861), (93, 26921), (111, 27002), (125, 27077), (138, 27143), (142, 27173), (147, 27212),

Gene: Sapo_32 Start: 30573, Stop: 30124, Start Num: 59
Candidate Starts for Sapo_32:
(46, 30636), (Start: 53 @30603 has 13 MA's), (58, 30579), (Start: 59 @30573 has 4 MA's), (84, 30435), (96, 30360), (97, 30351),

Gene: Savage2526_34 Start: 25217, Stop: 25771, Start Num: 51
Candidate Starts for Savage2526_34:
(11, 24956), (25, 25070), (Start: 44 @25193 has 3 MA's), (Start: 51 @25217 has 67 MA's), (Start: 53 @25229 has 13 MA's), (Start: 59 @25253 has 4 MA's), (64, 25286), (65, 25292), (73, 25346), (78, 25385), (90, 25457), (93, 25469), (94, 25472), (95, 25484), (98, 25502), (99, 25508), (102, 25517), (109, 25547), (116, 25571), (131, 25670), (138, 25703), (140, 25724),

Gene: Scuttle_34 Start: 25238, Stop: 25795, Start Num: 51
Candidate Starts for Scuttle_34:
(11, 24977), (Start: 44 @25214 has 3 MA's), (Start: 51 @25238 has 67 MA's), (Start: 53 @25250 has 13 MA's), (Start: 59 @25277 has 4 MA's), (62, 25283), (63, 25289), (64, 25310), (65, 25316), (73, 25370), (78, 25409), (84, 25436), (90, 25481), (93, 25493), (94, 25496), (95, 25508), (98, 25526), (99, 25532), (101, 25538), (109, 25571), (116, 25595), (131, 25694), (138, 25727), (140, 25748),

Gene: Sergei_31 Start: 24770, Stop: 25330, Start Num: 51
Candidate Starts for Sergei_31:
(Start: 51 @24770 has 67 MA's), (Start: 53 @24782 has 13 MA's), (Start: 59 @24809 has 4 MA's), (64, 24842), (65, 24848), (71, 24887), (73, 24902), (93, 25025), (95, 25040), (99, 25064), (109, 25103), (116, 25127), (122, 25166), (124, 25184), (130, 25223), (135, 25238), (138, 25259), (140, 25280),

Gene: Shynx_44 Start: 33525, Stop: 34226, Start Num: 27
Candidate Starts for Shynx_44:
(5, 33270), (6, 33309), (7, 33318), (10, 33369), (13, 33384), (15, 33414), (Start: 27 @33525 has 7 MA's), (38, 33594), (56, 33672), (Start: 59 @33696 has 4 MA's), (63, 33711), (64, 33732), (80, 33816), (81, 33825), (105, 33951), (146, 34203), (148, 34212),

Gene: Spocter_61 Start: 47277, Stop: 47777, Start Num: 45

Candidate Starts for Spocter_61:
(14, 47076), (Start: 45 @47277 has 1 MA's), (Start: 48 @47283 has 4 MA's), (58, 47334), (Start: 59 @47340 has 4 MA's), (87, 47502), (88, 47517), (89, 47523), (97, 47568), (136, 47757),

Gene: Stuff_44 Start: 33521, Stop: 34276, Start Num: 27
Candidate Starts for Stuff_44:
(Start: 27 @33521 has 7 MA's), (38, 33590), (56, 33668), (Start: 59 @33692 has 4 MA's), (63, 33707), (64, 33728), (80, 33866), (81, 33875), (105, 34001), (146, 34253), (148, 34262),

Gene: Sucha_38 Start: 24242, Stop: 24850, Start Num: 40
Candidate Starts for Sucha_38:
(18, 24065), (21, 24086), (28, 24173), (30, 24191), (Start: 40 @24242 has 4 MA's), (64, 24350), (68, 24383), (82, 24467), (83, 24473), (84, 24476), (90, 24521), (93, 24533), (111, 24614), (113, 24620), (120, 24647), (121, 24662), (125, 24689), (147, 24824),

Gene: Supakev_31 Start: 24783, Stop: 25343, Start Num: 51
Candidate Starts for Supakev_31:
(32, 24711), (50, 24774), (Start: 51 @24783 has 67 MA's), (Start: 53 @24795 has 13 MA's), (Start: 59 @24822 has 4 MA's), (63, 24834), (64, 24855), (65, 24861), (71, 24900), (73, 24915), (93, 25038), (95, 25053), (99, 25077), (109, 25116), (115, 25137), (116, 25140), (130, 25236), (138, 25272), (140, 25293), (145, 25335),

Gene: Suppi_34 Start: 25234, Stop: 25779, Start Num: 53
Candidate Starts for Suppi_34:
(8, 24907), (9, 24934), (12, 24949), (34, 25138), (35, 25141), (37, 25156), (47, 25201), (Start: 51 @25222 has 67 MA's), (Start: 53 @25234 has 13 MA's), (Start: 59 @25261 has 4 MA's), (63, 25273), (64, 25294), (65, 25300), (72, 25345), (73, 25354), (77, 25384), (84, 25420), (85, 25423), (93, 25477), (95, 25492), (99, 25516), (109, 25555), (116, 25579), (124, 25636), (137, 25708), (138, 25711), (140, 25732),

Gene: TattModd_34 Start: 25216, Stop: 25773, Start Num: 51
Candidate Starts for TattModd_34:
(25, 25069), (Start: 44 @25192 has 3 MA's), (Start: 51 @25216 has 67 MA's), (Start: 53 @25228 has 13 MA's), (Start: 59 @25255 has 4 MA's), (63, 25267), (64, 25288), (65, 25294), (72, 25339), (73, 25348), (78, 25387), (90, 25459), (93, 25471), (95, 25486), (98, 25504), (99, 25510), (102, 25519), (109, 25549), (116, 25573), (131, 25672), (138, 25705), (140, 25726),

Gene: Temper16_31 Start: 24770, Stop: 25330, Start Num: 51
Candidate Starts for Temper16_31:
(Start: 51 @24770 has 67 MA's), (Start: 53 @24782 has 13 MA's), (Start: 59 @24809 has 4 MA's), (64, 24842), (65, 24848), (71, 24887), (73, 24902), (93, 25025), (95, 25040), (99, 25064), (109, 25103), (116, 25127), (122, 25166), (124, 25184), (130, 25223), (135, 25238), (138, 25259), (140, 25280),

Gene: Theresita_40 Start: 25288, Stop: 25905, Start Num: 40
Candidate Starts for Theresita_40:
(Start: 40 @25288 has 4 MA's), (42, 25291), (Start: 43 @25294 has 1 MA's), (54, 25333), (57, 25348), (68, 25435), (71, 25447), (73, 25462), (80, 25507), (84, 25528), (85, 25531), (90, 25573), (93, 25585), (111, 25666), (112, 25669), (113, 25672), (125, 25741), (127, 25759), (138, 25807), (139, 25810), (147, 25879),

Gene: TurboVicky_40 Start: 26538, Stop: 27140, Start Num: 43
Candidate Starts for TurboVicky_40:

(Start: 41 @26532 has 8 MA's), (42, 26535), (Start: 43 @26538 has 1 MA's), (82, 26757), (83, 26763), (93, 26823), (111, 26904), (125, 26979), (126, 26991), (147, 27114),

Gene: Typher_42 Start: 26650, Stop: 27258, Start Num: 41
Candidate Starts for Typher_42:
(Start: 41 @26650 has 8 MA's), (Start: 43 @26656 has 1 MA's), (54, 26695), (64, 26758), (68, 26791), (80, 26863), (82, 26875), (83, 26881), (93, 26941), (111, 27022), (125, 27097), (126, 27109), (147, 27232),

Gene: UNTPL_46 Start: 33578, Stop: 34333, Start Num: 27
Candidate Starts for UNTPL_46:
(5, 33323), (6, 33362), (7, 33371), (10, 33422), (13, 33437), (15, 33467), (Start: 27 @33578 has 7 MA's), (38, 33647), (56, 33725), (Start: 59 @33749 has 4 MA's), (63, 33764), (64, 33785), (80, 33923), (81, 33932), (86, 33959), (105, 34058), (146, 34310), (148, 34319),

Gene: Urla_31 Start: 24836, Stop: 25381, Start Num: 53
Candidate Starts for Urla_31:
(34, 24767), (Start: 51 @24824 has 67 MA's), (Start: 53 @24836 has 13 MA's), (Start: 59 @24863 has 4 MA's), (63, 24875), (65, 24902), (72, 24947), (73, 24956), (90, 25067), (93, 25079), (94, 25082), (95, 25094), (99, 25118), (107, 25145), (110, 25160), (115, 25178), (116, 25181), (131, 25280), (138, 25313), (140, 25334),

Gene: Vallejo_34 Start: 25168, Stop: 25713, Start Num: 53
Candidate Starts for Vallejo_34:
(25, 25009), (Start: 44 @25132 has 3 MA's), (Start: 51 @25156 has 67 MA's), (Start: 53 @25168 has 13 MA's), (Start: 59 @25195 has 4 MA's), (63, 25207), (64, 25228), (65, 25234), (72, 25279), (73, 25288), (78, 25327), (90, 25399), (93, 25411), (95, 25426), (98, 25444), (99, 25450), (102, 25459), (109, 25489), (116, 25513), (131, 25612), (138, 25645), (140, 25666),

Gene: Vulture_31 Start: 24780, Stop: 25340, Start Num: 51
Candidate Starts for Vulture_31:
(32, 24708), (50, 24771), (Start: 51 @24780 has 67 MA's), (Start: 53 @24792 has 13 MA's), (Start: 59 @24819 has 4 MA's), (63, 24831), (64, 24852), (65, 24858), (71, 24897), (73, 24912), (93, 25035), (95, 25050), (99, 25074), (109, 25113), (115, 25134), (116, 25137), (130, 25233), (138, 25269), (140, 25290), (145, 25332),

Gene: Wawa_34 Start: 25208, Stop: 25765, Start Num: 51
Candidate Starts for Wawa_34:
(11, 24947), (25, 25061), (Start: 44 @25184 has 3 MA's), (Start: 51 @25208 has 67 MA's), (Start: 53 @25220 has 13 MA's), (Start: 59 @25247 has 4 MA's), (63, 25259), (65, 25286), (72, 25331), (73, 25340), (78, 25379), (84, 25406), (90, 25451), (93, 25463), (94, 25466), (95, 25478), (98, 25496), (99, 25502), (102, 25511), (109, 25541), (116, 25565), (131, 25664), (138, 25697), (140, 25718),

Gene: Wayne_34 Start: 25280, Stop: 25825, Start Num: 53
Candidate Starts for Wayne_34:
(8, 24953), (9, 24980), (12, 24995), (34, 25184), (35, 25187), (37, 25202), (47, 25247), (Start: 51 @25268 has 67 MA's), (Start: 53 @25280 has 13 MA's), (Start: 59 @25307 has 4 MA's), (63, 25319), (64, 25340), (65, 25346), (72, 25391), (73, 25400), (77, 25430), (84, 25466), (85, 25469), (93, 25523), (95, 25538), (99, 25562), (109, 25601), (116, 25625), (124, 25682), (137, 25754), (138, 25757), (140, 25778),

Gene: WonderBoy_29 Start: 23599, Stop: 24150, Start Num: 51
Candidate Starts for WonderBoy_29:

(Start: 44 @23575 has 3 MA's), (Start: 51 @23599 has 67 MA's), (Start: 53 @23611 has 13 MA's), (Start: 59 @23638 has 4 MA's), (63, 23650), (65, 23677), (72, 23722), (73, 23731), (78, 23770), (90, 23842), (93, 23854), (94, 23857), (95, 23869), (98, 23887), (109, 23932), (116, 23956), (131, 24055), (137, 24085), (138, 24088), (140, 24109),

Gene: Zanella_40 Start: 26530, Stop: 27138, Start Num: 41
Candidate Starts for Zanella_40:
(Start: 41 @26530 has 8 MA's), (42, 26533), (Start: 43 @26536 has 1 MA's), (82, 26755), (83, 26761), (93, 26821), (111, 26902), (125, 26977), (126, 26989), (147, 27112),

Gene: Zorro_34 Start: 25187, Stop: 25744, Start Num: 51
Candidate Starts for Zorro_34:
(11, 24926), (25, 25040), (Start: 44 @25163 has 3 MA's), (Start: 51 @25187 has 67 MA's), (Start: 53 @25199 has 13 MA's), (Start: 59 @25226 has 4 MA's), (63, 25238), (64, 25259), (65, 25265), (72, 25310), (73, 25319), (78, 25358), (79, 25361), (84, 25385), (90, 25430), (93, 25442), (95, 25457), (98, 25475), (99, 25481), (102, 25490), (109, 25520), (116, 25544), (131, 25643), (138, 25676), (140, 25697),