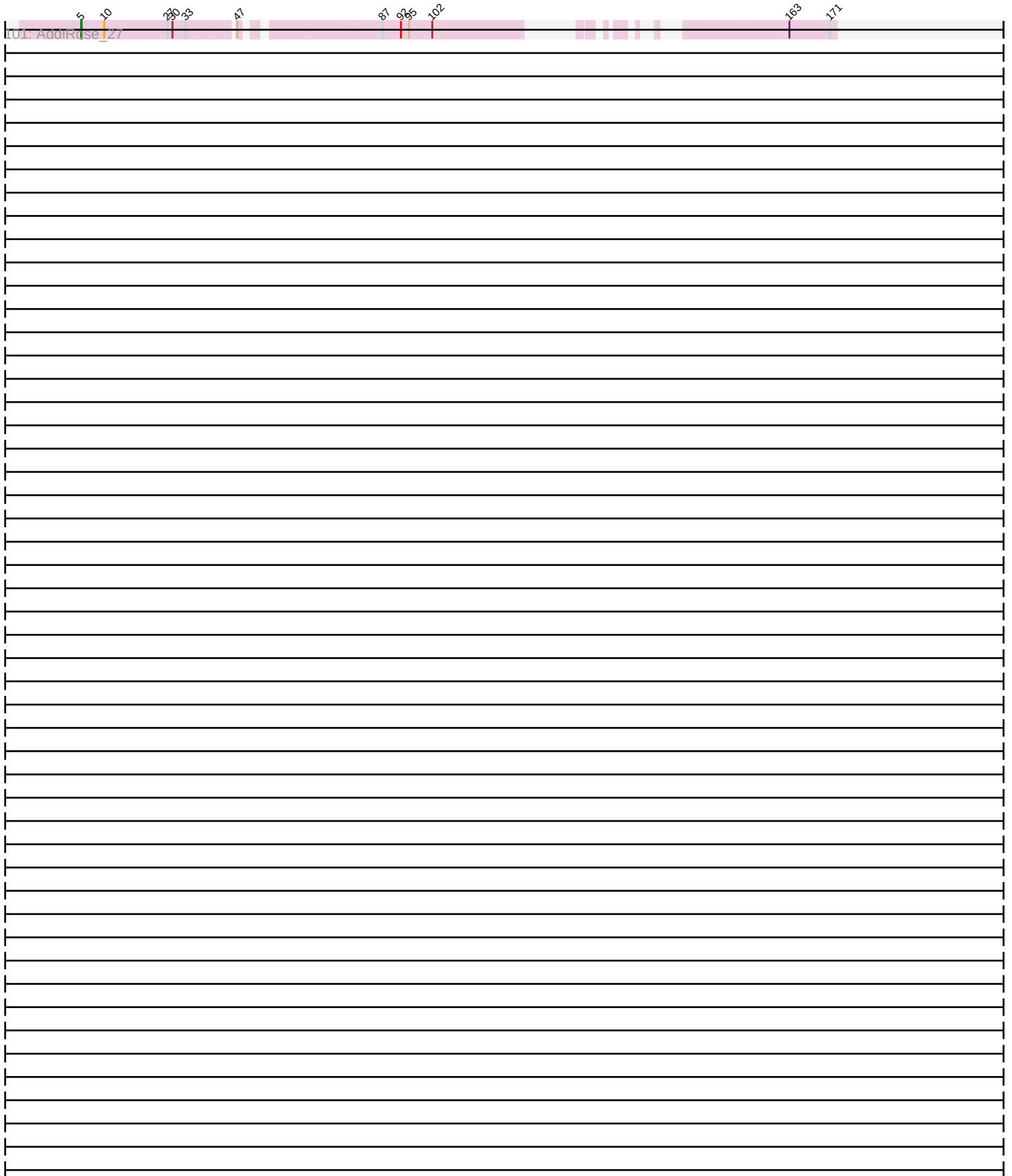


1: Elsa_24	10	33	45	63	78	87	140	147
2: Xenomorph_62	33	45	63	78	87	140	147	149
3: Mooshroom_63 + 3	33	45	63	78	87	140	147	153
4: Benito_22	33	45	63	78	87	140	147	153
5: Hankly_22	33	45	63	78	87	140	147	153
6: Yoshiyama_63	33	45	63	78	87	140	147	153
7: Correa_23	33	45	63	78	87	140	147	153
8: Inoby_24	33	45	63	78	87	140	147	153
9: Brunswi_28	33	45	63	78	87	140	147	153
10: Hemma_25	33	45	63	78	87	140	147	153
11: MiniBab_20 + 3	33	45	63	78	87	140	147	153
12: Castor_30	33	45	63	78	87	140	147	153
13: Syneps_20 + 1	33	45	63	78	87	140	147	153
14: LucySwiss_18	33	45	63	78	87	140	147	153
15: ElephantMar_28	33	45	63	78	87	140	147	153
16: AreFloork_18 + 2	33	45	63	78	87	140	147	153
17: Western_23	33	45	63	78	87	140	147	153
18: Issa_20	33	45	63	78	87	140	147	153
19: Teacup_28	33	45	63	78	87	140	147	153
20: ScienceWizam_30	33	45	63	78	87	140	147	153
21: Acai_20	33	45	63	78	87	140	147	153
22: Gordon_28	33	45	63	78	87	140	147	153
23: Breylor_20 + 1	33	45	63	78	87	140	147	153
24: DevitoJ_28	33	45	63	78	87	140	147	153
25: LinHudd_23	33	45	63	78	87	140	147	153
26: Tokki_23	33	45	63	78	87	140	147	153
27: Shepard_23	33	45	63	78	87	140	147	153
28: Nipton_29 + 1	33	45	63	78	87	140	147	153
29: Bouchan_20	33	45	63	78	87	140	147	153
30: Phaby_29	33	45	63	78	87	140	147	153
31: GiantStone_29	33	45	63	78	87	140	147	153
32: Ingrid_20 + 1	33	45	63	78	87	140	147	153
33: MediumBerry_26	33	45	63	78	87	140	147	153
34: Caterpillar_26	33	45	63	78	87	140	147	153
35: Anandi_21	33	45	63	78	87	140	147	153
36: Makai_23	33	45	63	78	87	140	147	153
37: Truckee_27	33	45	63	78	87	140	147	153
38: BarbonCobean_30	33	45	63	78	87	140	147	153
39: Lewanto_31	33	45	63	78	87	140	147	153
40: ThxiePlater_28	33	45	63	78	87	140	147	153
41: Aigira_20 + 1	33	45	63	78	87	140	147	153
42: Navili_28	33	45	63	78	87	140	147	153
43: Stardrop_29	33	45	63	78	87	140	147	153
44: Argan_27	33	45	63	78	87	140	147	153
45: Poeme_29	33	45	63	78	87	140	147	153
46: Kinny_30	33	45	63	78	87	140	147	153
47: KevinMilton_28	33	45	63	78	87	140	147	153
48: Renaldi_33	33	45	63	78	87	140	147	153
49: Phala_27 + 1	33	45	63	78	87	140	147	153
50: Leathe_28	33	45	63	78	87	140	147	153

Pham 270780

1	5	18	24	30	40	62	111	114	131	138	143	158	162	164	169
51: BarbierJill_31	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
52: Tenney_20_43 + 2	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
53: Zippen_28	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
54: Inked_30	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
55: Linda_20 + 15	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
56: Natasha_25	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
57: RustyBoy_25	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
58: Jeremy_20_24	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
59: Onesta_20_11	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
60: PowellJodi_26	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
61: Sprinkle_25	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
62: Sporo_36	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
63: Espio_20 + 4	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
64: indigenus_25 + 60	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
65: HazuAriZazu_25	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
66: TaidaOre_25 + 2	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
67: Rima_20 + 2	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
68: Madam_20_25	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
69: Wigbert_26	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
70: GmPower_24	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
71: RavenJill_20	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
72: Scapi_21	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
73: PhetiyQuiz_20	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
74: Sangar_21 + 2	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
75: HotFics_20	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
76: Annihilus_21 + 1	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
77: Bilo_21	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
78: Monse_21	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
79: RosaASantewaa_20	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
80: Ditters_21	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
81: SheRa_21	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
82: LibertyBell_23	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
83: Clicko_23 + 4	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
84: Miek_23 + 1	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
85: Bing_20	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
86: KardashJan_24	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
87: ClubPeppa_24	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
88: Count_25	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
89: Damas_25	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
90: DizzyRudy_26	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
91: Camille_26	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
92: JazzyJoni_26 + 2	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
93: Arzan_26	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
94: Kureo_26 + 2	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
95: Paella_22 + 3	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
96: Eevee_26 + 2	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
97: SweetCvvr_28	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
98: PippinJa_27	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
99: Serenadean_27	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169
100: DaddyJill_27	100	138	75	30	100	66	84	91	131	138	143	151	158	162	169

Pham 270780



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 270780 Report

This analysis was run 02/07/26 on database version 634.

Pham number 270780 has 181 members, 40 are drafts.

Phages represented in each track:

- Track 1 : Elsa_24, NapoleonB_23, Bowling_24, Arcadia_24, Dynamite_23, Nason_24
- Track 2 : Xenomorph_22
- Track 3 : Mooshroom_23, KeaneyLin_22, GoCrazy_22, Kardesai_22
- Track 4 : Benllo_22, BenitoAntonio_24, Circum_24, JEGGS_23, Cheesy_24, Mudcat_23, Heisenberger_23
- Track 5 : Hankly_22
- Track 6 : YoshiYama_23
- Track 7 : Correa_23
- Track 8 : Tribby_24
- Track 9 : Brunswick_28
- Track 10 : Hemma_25
- Track 11 : MiniBagel_28, Dinallo_29, CapnMurica_28, Tenno_29
- Track 12 : CastorTray_30
- Track 13 : Synopsis_27, Trustiboi_29
- Track 14 : LucySwiss_28
- Track 15 : ElephantMan_28, Niktson_28
- Track 16 : AreFloNak_28, Tatanka_28, Nivinsha_28
- Track 17 : Westerlin_29
- Track 18 : Issa_28, Nightmare_29
- Track 19 : Teacup_28
- Track 20 : ScienceWizSam_30
- Track 21 : Acai_28
- Track 22 : Gordon_28
- Track 23 : Breylor17_29, Darby_28
- Track 24 : DevitoJr_28
- Track 25 : LilHuddy_29
- Track 26 : Tokki_29
- Track 27 : Shepard_29
- Track 28 : Tipton_29, Chlochlo_29
- Track 29 : Bouchard_29
- Track 30 : Phaby_29
- Track 31 : Giantsbane_29
- Track 32 : Ingrid_28, Loretta_28
- Track 33 : MediumFry_26
- Track 34 : Caterpillar_26
- Track 35 : Anandi_31

- Track 36 : Makai_28
- Track 37 : Truckee_27
- Track 38 : Barbonzobean_31, Biscute_29, Muglass_30
- Track 39 : Lewando_31
- Track 40 : TrixiePhattel_28
- Track 41 : Altjira_27, Mardi_29
- Track 42 : Navi1117_28
- Track 43 : Stardrop_29
- Track 44 : Argan_27
- Track 45 : PoeMe_29
- Track 46 : Kinny_30
- Track 47 : KevinMinion_28
- Track 48 : Renaldo_33
- Track 49 : Phaila_27, Zeina_28
- Track 50 : Leatheia_28
- Track 51 : BarbieDoll_31
- Track 52 : Tenney120_28, Uzumaki_28, GantcherGoblin_27
- Track 53 : Zippen_28
- Track 54 : Inked_30
- Track 55 : Linda_25, ProfFrink_25, Stayer_25, StarLord_25, Salk_25, Raunak_25, Boog_25, BronxBay_25, Shiba_25, Egad_25, MrAaronian_25, Michelle_25, Spain_24, HerbBucket_24, Sloopyjoe_25, Djungelskog_25
- Track 56 : Natasha_25
- Track 57 : RustyBoy_25
- Track 58 : Jeremy4pt0_24, DoctorPepper_25
- Track 59 : Onestar_25
- Track 60 : Powelldog_26
- Track 61 : Sprinkle_25
- Track 62 : Sporto_26
- Track 63 : Espio_26, FrodoSwaggins_25, Popy_25, Soshi_25, DrGrey_25
- Track 64 : Indigenous_25, Maya_25, Jaylociraptor_25, Meibysrarus_25, Hoshi_25, FidgetOrca_25, TonyStarch_25, Namo_25, Spectropatronm_25, TieDye_24, IceWarrior_25
- Track 65 : HazuAndZazu_25
- Track 66 : TaidaOne_25, CherryBlossom_25
- Track 67 : Rima_25, Esketit_25, OlympicHelado_25
- Track 68 : Madamato_25
- Track 69 : Wigberry_26
- Track 70 : GirlPower_24
- Track 71 : RavenPuff_20
- Track 72 : Scap1_21
- Track 73 : PherryCruz_20
- Track 74 : Sangak_21, GoblinVoyage_21, Doxi13_21
- Track 75 : HotFries_20
- Track 76 : Annihilus_21, Moozy_21
- Track 77 : Bil0_21
- Track 78 : Monse_21
- Track 79 : RosaAsantewaa_21
- Track 80 : Ditters_21
- Track 81 : SheRa_21
- Track 82 : LibertyBell_23
- Track 83 : CricKo_23, Thiqqums_23, FromIndy_24, Regigigas_24, Rainydai_23
- Track 84 : Miek_23, SendItCS_22

- Track 85 : Bing_26
- Track 86 : Kardashian_24
- Track 87 : ClubPenguin_24
- Track 88 : Count_32
- Track 89 : Damascus_26
- Track 90 : DizzyRudy_26
- Track 91 : Camille_26
- Track 92 : Jazzy4900_26, Sunny4976_25
- Track 93 : Arzan_24
- Track 94 : Kureo_43, Marianna39_43, Gandionco_43
- Track 95 : Paella_42, JeNeSaisPas_41, Qui_42, Elver_42
- Track 96 : Eevee_28, JoyLin_28, Yotsuba_28
- Track 97 : Sweetclover_28
- Track 98 : Pippin15_27
- Track 99 : Serenabean_27
- Track 100 : Daddyjeff_27
- Track 101 : AddiRose_27

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

The start number called the most often in the published annotations is 5, it was called in 112 of the 141 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Acai_28, AddiRose_27, Altjira_27, Anandi_31, Annihilus_21, AreFloNak_28, Argan_27, Arzan_24, BarbieDoll_31, Barbonzobean_31, Bilo_21, Bing_26, Biscute_29, Boog_25, Bouchard_29, Breylor17_29, BronxBay_25, Brunswick_28, CapnMurica_28, CastorTray_30, Caterpillar_26, CherryBlossom_25, Chlochlo_29, ClubPenguin_24, Count_32, Cricko_23, Daddyjeff_27, Damascus_26, Darby_28, DevitoJr_28, Dinallo_29, Ditters_21, DizzyRudy_26, Djungelskog_25, DoctorPepper_25, Doxi13_21, DrGrey_25, Eevee_28, Egad_25, Elver_42, Espio_26, FidgetOrca_25, FrodoSwaggins_25, FromIndy_24, Gandionco_43, GantcherGoblin_27, Giantsbane_29, GirlPower_24, GoblinVoyage_21, Gordon_28, HazuAndZazu_25, Hemma_25, HerbBucket_24, Hoshi_25, HotFries_20, IceWarrior_25, Indigenous_25, Ingrid_28, Inked_30, Issa_28, Jaylociraptor_25, Jazzy4900_26, JeNeSaisPas_41, Jeremy4pt0_24, JoyLin_28, Kardashian_24, KevinMinion_28, Kinny_30, Kureo_43, Leathea_28, Lewando_31, LibertyBell_23, LilHuddy_29, Linda_25, Loretta_28, LucySwiss_28, Madamato_25, Makai_28, Mardi_29, Marianna39_43, Maya_25, MediumFry_26, Meibysrarus_25, Michelle_25, Miek_23, MiniBagel_28, Monse_21, Moozy_21, MrAaronian_25, Muglass_30, Nam0_25, Natasha_25, Navi1117_28, Nightmare_29, Nivinsha_28, Onestar_25, Paella_42, Phaby_29, Phaila_27, Pippin15_27, PoeMe_29, Popy_25, PowellDog_26, ProfFrink_25, Qui_42, Rainydai_23, Raunak_25, RavenPuff_20, Regigigas_24, Renaldo_33, RosaAsantewaa_21, RustyBoy_25, Salk_25, Sangak_21, Scap1_21, ScienceWizSam_30, SendItCS_22, Serenabean_27, SheRa_21, Shepard_29, Shiba_25, Sloopyjoe_25, Soshi_25, Spain_24, Spectropatronm_25, Sporto_26, Sprinkle_25, StarLord_25, Stardrop_29, Stayer_25, Sunny4976_25, Sweetclover_28, TaidaOne_25, Tatanka_28, Teacup_28, Tenney120_28, Tenno_29, Thiqqums_23, TieDye_24, Tipton_29, Tokki_29, TonyStarch_25, TrixiePhattel_28, Truckee_27, Uzumaki_28, Westerlin_29, Wigberry_26, Yotsuba_28, Zeina_28, Zippen_28,

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

- Camille_26, ElephantMan_28, Esketit_25, Niktson_28, OlympicHelado_25, PherryCruz_20, Rima_25, Synepsis_27, Trustiboi_29,

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

- Arcadia_24, BenitoAntonio_24, Benllo_22, Bowling_24, Cheesy_24, Circum_24, Correa_23, Dynamite_23, Elsa_24, GoCrazy_22, Hankly_22, Heisenberger_23, JEGGS_23, Kardesai_22, KeaneyLin_22, Mooshroom_23, Mudcat_23, NapoleonB_23, Nason_24, Tribby_24, Xenomorph_22, YoshiYama_23,

Summary by start number:

Start 2:

- Found in 22 of 181 (12.2%) of genes in pham
- Manual Annotations of this start: 20 of 141
- Called 95.5% of time when present
- Phage (with cluster) where this start called: Arcadia_24 (AM), BenitoAntonio_24 (AM), Benllo_22 (AM), Bowling_24 (AM), Cheesy_24 (AM), Circum_24 (AM), Correa_23 (AM), Dynamite_23 (AM), Elsa_24 (AM), GoCrazy_22 (AM), Hankly_22 (AM), Heisenberger_23 (AM), JEGGS_23 (AM), Kardesai_22 (AM), KeaneyLin_22 (AM), Mooshroom_23 (AM), Mudcat_23 (AM), NapoleonB_23 (AM), Nason_24 (AM), Tribby_24 (AM), Xenomorph_22 (AM),

Start 3:

- Found in 1 of 181 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: YoshiYama_23 (AM),

Start 4:

- Found in 83 of 181 (45.9%) of genes in pham
- Manual Annotations of this start: 9 of 141
- Called 10.8% of time when present
- Phage (with cluster) where this start called: Camille_26 (EL), ElephantMan_28 (AU1), Esketit_25 (BI1), Niktson_28 (AU1), OlympicHelado_25 (BI1), PherryCruz_20 (BI2), Rima_25 (BI1), Synepsis_27 (AU1), Trustiboi_29 (AU1),

Start 5:

- Found in 159 of 181 (87.8%) of genes in pham
- Manual Annotations of this start: 112 of 141
- Called 94.3% of time when present
- Phage (with cluster) where this start called: Acai_28 (AU1), AddiRose_27 (JA), Altjira_27 (AU6), Anandi_31 (AU4), Annihilus_21 (BI2), AreFloNak_28 (AU1), Argan_27 (AU6), Arzan_24 (FI), BarbieDoll_31 (AU6), Barbonzobean_31 (AU6), Bilo_21 (BI2), Bing_26 (BI5), Biscute_29 (AU6), Boog_25 (AW), Bouchard_29 (AU2), Breylor17_29 (AU1), BronxBay_25 (AW), Brunswick_28 (AU1), CapnMurica_28 (AU1), CastorTray_30 (AU1), Caterpillar_26 (AU4), CherryBlossom_25 (BI1), Chlochlo_29 (AU2), ClubPenguin_24 (BI7), Count_32 (EL), CricKo_23 (BI4), Daddyjeff_27 (JA), Damascus_26 (EL), Darby_28 (AU1), DevitoJr_28 (AU1), Dinallo_29 (AU1), Ditters_21 (BI2), DizzyRudy_26 (EL), Djungelskog_25 (AW), DoctorPepper_25 (AW), Doxi13_21 (BI2), DrGrey_25 (BI1), Eevee_28 (JA), Egad_25 (AW), Elver_42 (FK), Espio_26 (BI1), FidgetOrca_25 (BI1), FrodoSwaggins_25 (BI1),

FromIndy_24 (BI4), Gandionco_43 (FK), GantcherGoblin_27 (AU6), Giantsbane_29 (AU2), GirlPower_24 (BI1), GoblinVoyage_21 (BI2), Gordon_28 (AU1), HazuAndZazu_25 (BI1), Hemma_25 (AU1), HerbBucket_24 (AW), Hoshi_25 (BI1), HotFries_20 (BI2), IceWarrior_25 (BI1), Indigenous_25 (BI1), Ingrid_28 (AU3), Inked_30 (AU7), Issa_28 (AU1), Jaylociraptor_25 (BI1), Jazzy4900_26 (FI), JeNeSaisPas_41 (FK), Jeremy4pt0_24 (AW), JoyLin_28 (JA), Kardashian_24 (BI6), KevinMinion_28 (AU6), Kinny_30 (AU6), Kureo_43 (FK), Leatheia_28 (AU6), Lewando_31 (AU6), LibertyBell_23 (BI3), LilHuddy_29 (AU2), Linda_25 (AW), Loretta_28 (AU3), LucySwiss_28 (AU1), Madamato_25 (BI1), Makai_28 (AU5), Mardi_29 (AU6), Marianna39_43 (FK), Maya_25 (BI1), MediumFry_26 (AU4), Meibysrarus_25 (BI1), Michelle_25 (AW), Miek_23 (BI4), MiniBagel_28 (AU1), Monse_21 (BI2), Moozy_21 (BI2), MrAaronian_25 (AW), Muglass_30 (AU6), Namo_25 (BI1), Natasha_25 (AW), Navi1117_28 (AU6), Nightmare_29 (AU1), Nivinsha_28 (AU1), Onestar_25 (AW), Paella_42 (FK), Phaby_29 (AU2), Phaila_27 (AU6), Pippin15_27 (JA), PoeMe_29 (AU6), Popy_25 (BI1), PowellDog_26 (AW), ProfFrink_25 (AW), Qui_42 (FK), Rainydai_23 (BI4), Raunak_25 (AW), RavenPuff_20 (BI2), Regigigas_24 (BI4), Renaldo_33 (AU6), RosaAsantewaa_21 (BI2), RustyBoy_25 (AW), Salk_25 (AW), Sangak_21 (BI2), Scap1_21 (BI2), ScienceWizSam_30 (AU1), SendItCS_22 (BI4), Serenabean_27 (JA), SheRa_21 (BI2), Shepard_29 (AU2), Shiba_25 (AW), Sloopyjoe_25 (AW), Soshi_25 (BI1), Spain_24 (AW), Spectropatronm_25 (BI1), Sporto_26 (AW), Sprinkle_25 (AW), StarLord_25 (AW), Stardrop_29 (AU6), Stayer_25 (AW), Sunny4976_25 (FI), Sweetclover_28 (JA), TaidaOne_25 (BI1), Tatanka_28 (AU1), Teacup_28 (AU1), Tenney120_28 (AU6), Tenno_29 (AU1), Thiqqums_23 (BI4), TieDye_24 (BI1), Tipton_29 (AU2), Tokki_29 (AU2), TonyStarch_25 (BI1), TrixiePhattel_28 (AU6), Truckee_27 (AU5), Uzumaki_28 (AU6), Westerlin_29 (AU1), Wigberry_26 (BI1), Yotsuba_28 (JA), Zeina_28 (AU6), Zippen_28 (AU7),

Summary by clusters:

There are 20 clusters represented in this pham: EL, FK, AU7, AM, BI3, AU1, AU3, AU2, AU5, AU4, AW, AU6, BI6, FI, BI4, BI5, BI2, JA, BI7, BI1,

Info for manual annotations of cluster AM:

- Start number 2 was manually annotated 20 times for cluster AM.

Info for manual annotations of cluster AU1:

- Start number 4 was manually annotated 4 times for cluster AU1.
- Start number 5 was manually annotated 15 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 5 was manually annotated 7 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 5 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 5 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 5 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 5 was manually annotated 11 times for cluster AU6.

Info for manual annotations of cluster AU7:

- Start number 5 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:

- Start number 5 was manually annotated 18 times for cluster AW.

Info for manual annotations of cluster BI1:

- Start number 4 was manually annotated 3 times for cluster BI1.
- Start number 5 was manually annotated 20 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 4 was manually annotated 1 time for cluster BI2.
- Start number 5 was manually annotated 10 times for cluster BI2.

Info for manual annotations of cluster BI3:

- Start number 5 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:

- Start number 5 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI5:

- Start number 5 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster BI6:

- Start number 5 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 5 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster EL:

- Start number 4 was manually annotated 1 time for cluster EL.
- Start number 5 was manually annotated 3 times for cluster EL.

Info for manual annotations of cluster FK:

- Start number 5 was manually annotated 3 times for cluster FK.

Info for manual annotations of cluster JA:

- Start number 5 was manually annotated 8 times for cluster JA.

Gene Information:

Gene: Acai_28 Start: 25510, Stop: 26670, Start Num: 5

Candidate Starts for Acai_28:

(Start: 4 @25507 has 9 MA's), (Start: 5 @25510 has 112 MA's), (6, 25516), (24, 25648), (25, 25651), (33, 25696), (45, 25777), (74, 25945), (84, 26002), (90, 26041), (113, 26194), (143, 26365), (149, 26407), (151, 26416), (154, 26455), (158, 26488), (162, 26518), (164, 26542), (169, 26584),

Gene: AddiRose_27 Start: 23970, Stop: 25037, Start Num: 5

Candidate Starts for AddiRose_27:

(Start: 5 @23970 has 112 MA's), (10, 24012), (27, 24123), (30, 24132), (33, 24156), (47, 24237), (87, 24450), (92, 24480), (95, 24495), (102, 24534), (163, 24954), (171, 25026),

Gene: Altjira_27 Start: 25154, Stop: 26317, Start Num: 5

Candidate Starts for Altjira_27:

(Start: 5 @25154 has 112 MA's), (16, 25259), (18, 25265), (33, 25340), (35, 25346), (40, 25385), (68, 25550), (71, 25571), (91, 25691), (103, 25766), (131, 25925), (134, 25949), (135, 25952), (158, 26129), (162, 26159),

Gene: Anandi_31 Start: 26066, Stop: 27226, Start Num: 5

Candidate Starts for Anandi_31:

(Start: 4 @26063 has 9 MA's), (Start: 5 @26066 has 112 MA's), (6, 26072), (16, 26171), (24, 26204), (25, 26207), (31, 26231), (33, 26252), (35, 26258), (45, 26333), (55, 26372), (90, 26597), (91, 26606), (110, 26723), (113, 26750), (115, 26759), (121, 26807), (140, 26906), (143, 26921), (158, 27044), (162, 27074), (169, 27140),

Gene: Annihilus_21 Start: 19555, Stop: 20718, Start Num: 5

Candidate Starts for Annihilus_21:

(Start: 4 @19552 has 9 MA's), (Start: 5 @19555 has 112 MA's), (16, 19660), (24, 19693), (31, 19720), (33, 19741), (34, 19744), (35, 19747), (40, 19789), (46, 19825), (48, 19837), (66, 19945), (91, 20095), (93, 20107), (101, 20152), (111, 20221), (125, 20317), (136, 20359), (146, 20422), (155, 20500), (158, 20530), (162, 20557), (163, 20563), (164, 20581),

Gene: Arcadia_24 Start: 23000, Stop: 24061, Start Num: 2

Candidate Starts for Arcadia_24:

(Start: 2 @23000 has 20 MA's), (7, 23030), (10, 23057), (33, 23201), (87, 23486), (110, 23615), (111, 23624), (147, 23843), (149, 23864),

Gene: AreFloNak_28 Start: 25471, Stop: 26631, Start Num: 5

Candidate Starts for AreFloNak_28:

(Start: 4 @25468 has 9 MA's), (Start: 5 @25471 has 112 MA's), (6, 25477), (12, 25522), (24, 25609), (25, 25612), (33, 25657), (43, 25729), (55, 25777), (67, 25864), (74, 25906), (84, 25963), (90, 26002), (110, 26128), (113, 26155), (119, 26191), (136, 26275), (143, 26326), (149, 26368), (158, 26449), (162, 26479), (169, 26545),

Gene: Argan_27 Start: 24421, Stop: 25584, Start Num: 5

Candidate Starts for Argan_27:

(Start: 5 @24421 has 112 MA's), (16, 24526), (18, 24532), (33, 24607), (35, 24613), (40, 24652), (68, 24817), (71, 24838), (91, 24958), (103, 25033), (108, 25057), (119, 25138), (120, 25156), (131, 25192), (134, 25216), (135, 25219), (157, 25390), (158, 25396), (162, 25426),

Gene: Arzan_24 Start: 23144, Stop: 24307, Start Num: 5

Candidate Starts for Arzan_24:

(Start: 4 @23141 has 9 MA's), (Start: 5 @23144 has 112 MA's), (6, 23150), (8, 23171), (16, 23249), (17, 23252), (33, 23330), (40, 23378), (43, 23402), (54, 23444), (111, 23810), (113, 23828), (116, 23840), (121, 23885), (122, 23888), (134, 23942), (135, 23945), (145, 24002), (162, 24146),

Gene: BarbieDoll_31 Start: 26396, Stop: 27559, Start Num: 5

Candidate Starts for BarbieDoll_31:

(1, 26288), (Start: 5 @26396 has 112 MA's), (18, 26507), (24, 26534), (32, 26579), (33, 26582), (40, 26627), (62, 26756), (111, 27059), (114, 27080), (143, 27248), (157, 27365), (158, 27371), (162, 27401), (164, 27425), (169, 27467),

Gene: Barbonzobean_31 Start: 25991, Stop: 27154, Start Num: 5

Candidate Starts for Barbonzobean_31:

(Start: 5 @25991 has 112 MA's), (17, 26099), (18, 26102), (24, 26129), (32, 26174), (33, 26177), (40, 26222), (62, 26351), (65, 26369), (73, 26417), (82, 26468), (111, 26654), (114, 26675), (158, 26966), (162, 26996), (164, 27020),

Gene: BenitoAntonio_24 Start: 22616, Stop: 23677, Start Num: 2

Candidate Starts for BenitoAntonio_24:

(Start: 2 @22616 has 20 MA's), (7, 22646), (10, 22673), (33, 22817), (87, 23102), (110, 23231), (111, 23240), (113, 23258), (147, 23459), (149, 23480),

Gene: Benllo_22 Start: 22900, Stop: 23961, Start Num: 2

Candidate Starts for Benllo_22:

(Start: 2 @22900 has 20 MA's), (7, 22930), (10, 22957), (33, 23101), (87, 23386), (110, 23515), (111, 23524), (113, 23542), (147, 23743), (149, 23764),

Gene: Bilo_21 Start: 20046, Stop: 21209, Start Num: 5

Candidate Starts for Bilo_21:

(Start: 4 @20043 has 9 MA's), (Start: 5 @20046 has 112 MA's), (16, 20151), (24, 20184), (26, 20193), (31, 20211), (32, 20229), (33, 20232), (34, 20235), (35, 20238), (40, 20280), (46, 20316), (48, 20328), (66, 20436), (91, 20586), (93, 20598), (101, 20643), (111, 20712), (125, 20808), (136, 20850), (146, 20913), (155, 20991), (158, 21021), (162, 21048), (163, 21054), (164, 21072),

Gene: Bing_26 Start: 22320, Stop: 23492, Start Num: 5

Candidate Starts for Bing_26:

(Start: 4 @22317 has 9 MA's), (Start: 5 @22320 has 112 MA's), (28, 22476), (31, 22485), (33, 22506), (35, 22512), (37, 22521), (40, 22554), (70, 22728), (75, 22758), (77, 22776), (82, 22800), (111, 22986), (122, 23064), (124, 23076), (125, 23082), (141, 23160), (158, 23295), (162, 23325), (164, 23349), (173, 23430),

Gene: Biscute_29 Start: 26042, Stop: 27205, Start Num: 5

Candidate Starts for Biscute_29:

(Start: 5 @26042 has 112 MA's), (17, 26150), (18, 26153), (24, 26180), (32, 26225), (33, 26228), (40, 26273), (62, 26402), (65, 26420), (73, 26468), (82, 26519), (111, 26705), (114, 26726), (158, 27017), (162, 27047), (164, 27071),

Gene: Boog_25 Start: 22609, Stop: 23775, Start Num: 5

Candidate Starts for Boog_25:

(Start: 5 @22609 has 112 MA's), (6, 22615), (16, 22714), (18, 22720), (30, 22771), (40, 22843), (71, 23029), (107, 23239), (108, 23248), (117, 23320), (121, 23350), (123, 23356), (139, 23428), (146, 23479), (157, 23581), (158, 23587), (160, 23605), (161, 23614), (162, 23617), (164, 23641), (167, 23677),

Gene: Bouchard_29 Start: 25647, Stop: 26810, Start Num: 5

Candidate Starts for Bouchard_29:

(Start: 5 @25647 has 112 MA's), (6, 25653), (12, 25698), (16, 25752), (31, 25812), (33, 25833), (43, 25905), (45, 25914), (55, 25953), (67, 26040), (87, 26160), (90, 26178), (98, 26223), (99, 26226), (108, 26286), (110, 26304), (113, 26331), (119, 26367), (144, 26505), (158, 26625), (162, 26655), (169, 26721),

Gene: Bowling_24 Start: 22714, Stop: 23775, Start Num: 2

Candidate Starts for Bowling_24:

(Start: 2 @22714 has 20 MA's), (7, 22744), (10, 22771), (33, 22915), (87, 23200), (110, 23329), (111, 23338), (147, 23557), (149, 23578),

Gene: Breylor17_29 Start: 26077, Stop: 27237, Start Num: 5

Candidate Starts for Breylor17_29:

(Start: 4 @26074 has 9 MA's), (Start: 5 @26077 has 112 MA's), (6, 26083), (12, 26128), (24, 26215), (25, 26218), (33, 26263), (43, 26335), (55, 26383), (67, 26470), (74, 26512), (84, 26569), (90, 26608), (110, 26734), (113, 26761), (119, 26797), (143, 26932), (149, 26974), (158, 27055), (162, 27085), (169, 27151),

Gene: BronxBay_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for BronxBay_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: Brunswick_28 Start: 25543, Stop: 26703, Start Num: 5

Candidate Starts for Brunswick_28:

(Start: 4 @25540 has 9 MA's), (Start: 5 @25543 has 112 MA's), (6, 25549), (24, 25681), (25, 25684), (33, 25729), (45, 25810), (67, 25936), (84, 26035), (90, 26074), (110, 26200), (113, 26227), (136, 26347), (143, 26398), (149, 26440), (154, 26488), (158, 26521), (162, 26551), (164, 26575), (169, 26617),

Gene: Camille_26 Start: 21265, Stop: 22443, Start Num: 4

Candidate Starts for Camille_26:

(Start: 4 @21265 has 9 MA's), (Start: 5 @21268 has 112 MA's), (6, 21274), (32, 21451), (33, 21454), (40, 21502), (43, 21526), (46, 21541), (53, 21568), (64, 21652), (65, 21655), (85, 21769), (112, 21949), (129, 22042), (133, 22069), (143, 22129), (158, 22252), (162, 22282),

Gene: CapnMurica_28 Start: 26632, Stop: 27792, Start Num: 5

Candidate Starts for CapnMurica_28:

(Start: 4 @26629 has 9 MA's), (Start: 5 @26632 has 112 MA's), (6, 26638), (24, 26770), (25, 26773), (33, 26818), (45, 26899), (66, 27022), (67, 27025), (74, 27067), (84, 27124), (90, 27163), (110, 27289), (113, 27316), (136, 27436), (143, 27487), (149, 27529), (158, 27610), (162, 27640), (169, 27706),

Gene: CastorTray_30 Start: 25935, Stop: 27095, Start Num: 5

Candidate Starts for CastorTray_30:

(Start: 4 @25932 has 9 MA's), (Start: 5 @25935 has 112 MA's), (6, 25941), (12, 25986), (24, 26073), (25, 26076), (33, 26121), (43, 26193), (55, 26241), (67, 26328), (74, 26370), (79, 26397), (84, 26427), (90, 26466), (110, 26592), (113, 26619), (143, 26790), (149, 26832), (158, 26913), (162, 26943), (169, 27009),

Gene: Caterpillar_26 Start: 24715, Stop: 25878, Start Num: 5

Candidate Starts for Caterpillar_26:

(Start: 4 @24712 has 9 MA's), (Start: 5 @24715 has 112 MA's), (6, 24721), (33, 24901), (43, 24973), (45, 24982), (55, 25021), (67, 25108), (80, 25186), (87, 25228), (90, 25246), (110, 25372), (113, 25399), (117, 25426), (142, 25567), (143, 25570), (154, 25660), (158, 25693), (162, 25723), (164, 25747),

Gene: Cheesy_24 Start: 22715, Stop: 23776, Start Num: 2

Candidate Starts for Cheesy_24:

(Start: 2 @22715 has 20 MA's), (7, 22745), (10, 22772), (33, 22916), (87, 23201), (110, 23330), (111, 23339), (113, 23357), (147, 23558), (149, 23579),

Gene: CherryBlossom_25 Start: 22462, Stop: 23634, Start Num: 5

Candidate Starts for CherryBlossom_25:

(Start: 4 @22459 has 9 MA's), (Start: 5 @22462 has 112 MA's), (16, 22567), (31, 22627), (33, 22648), (35, 22654), (40, 22696), (60, 22813), (69, 22864), (75, 22900), (82, 22942), (93, 23014), (94, 23017), (100, 23053), (123, 23209), (124, 23218), (135, 23263), (136, 23266), (158, 23437), (162, 23467), (163, 23473), (164, 23491), (169, 23533), (173, 23572),

Gene: Chlochlo_29 Start: 25686, Stop: 26849, Start Num: 5

Candidate Starts for Chlochlo_29:

(Start: 5 @25686 has 112 MA's), (6, 25692), (12, 25737), (16, 25791), (33, 25872), (45, 25953), (55, 25992), (76, 26139), (87, 26199), (90, 26217), (91, 26226), (98, 26262), (100, 26277), (110, 26343), (113, 26370), (119, 26406), (121, 26427), (131, 26463), (135, 26487), (136, 26490), (143, 26541), (149, 26583), (151, 26592), (154, 26631), (158, 26664), (161, 26691), (162, 26694), (169, 26760),

Gene: Circum_24 Start: 22722, Stop: 23783, Start Num: 2

Candidate Starts for Circum_24:

(Start: 2 @22722 has 20 MA's), (7, 22752), (10, 22779), (33, 22923), (87, 23208), (110, 23337), (111, 23346), (113, 23364), (147, 23565), (149, 23586),

Gene: ClubPenguin_24 Start: 22046, Stop: 23248, Start Num: 5

Candidate Starts for ClubPenguin_24:

(Start: 4 @22043 has 9 MA's), (Start: 5 @22046 has 112 MA's), (10, 22088), (29, 22205), (32, 22229), (33, 22232), (51, 22337), (60, 22421), (70, 22478), (75, 22508), (97, 22640), (108, 22709), (110, 22727), (111, 22736), (114, 22757), (122, 22814), (143, 22925), (156, 23039), (159, 23057), (162, 23078), (163, 23084), (164, 23102),

Gene: Correa_23 Start: 22230, Stop: 23291, Start Num: 2

Candidate Starts for Correa_23:

(Start: 2 @22230 has 20 MA's), (7, 22260), (10, 22287), (33, 22431), (45, 22509), (63, 22581), (87, 22716), (110, 22845), (111, 22854), (113, 22872), (147, 23073), (149, 23094),

Gene: Count_32 Start: 28485, Stop: 29882, Start Num: 5

Candidate Starts for Count_32:

(Start: 5 @28485 has 112 MA's), (9, 28521), (13, 28548), (21, 28614), (31, 28650), (32, 28668), (33, 28671), (36, 28683), (37, 28686), (71, 28905), (108, 29124), (117, 29196), (130, 29259), (135, 29286), (136, 29289), (166, 29562), (170, 29574), (175, 29616), (177, 29691), (178, 29697), (179, 29727), (180, 29793), (181, 29853),

Gene: CricKo_23 Start: 21363, Stop: 22529, Start Num: 5

Candidate Starts for CricKo_23:

(Start: 5 @21363 has 112 MA's), (14, 21447), (18, 21474), (31, 21528), (33, 21549), (35, 21555), (40, 21597), (43, 21621), (70, 21771), (72, 21786), (75, 21801), (82, 21843), (83, 21849), (93, 21915), (122, 22107), (125, 22125), (144, 22218), (162, 22368), (163, 22374), (164, 22392),

Gene: Daddyjeff_27 Start: 23942, Stop: 25009, Start Num: 5

Candidate Starts for Daddyjeff_27:

(Start: 5 @23942 has 112 MA's), (18, 24053), (27, 24095), (30, 24104), (33, 24128), (47, 24209), (73, 24341), (87, 24422), (95, 24467), (102, 24506), (163, 24926), (171, 24998),

Gene: Damascus_26 Start: 21950, Stop: 23347, Start Num: 5

Candidate Starts for Damascus_26:

(Start: 4 @21947 has 9 MA's), (Start: 5 @21950 has 112 MA's), (6, 21956), (17, 22058), (33, 22136), (49, 22238), (64, 22334), (65, 22337), (66, 22346), (105, 22580), (118, 22673), (127, 22760), (128, 22808), (129, 22820), (132, 22835), (138, 22895), (152, 23096), (158, 23156), (162, 23186),

Gene: Darby_28 Start: 25381, Stop: 26541, Start Num: 5

Candidate Starts for Darby_28:

(Start: 4 @25378 has 9 MA's), (Start: 5 @25381 has 112 MA's), (6, 25387), (12, 25432), (24, 25519), (25, 25522), (33, 25567), (43, 25639), (55, 25687), (67, 25774), (74, 25816), (84, 25873), (90, 25912), (110, 26038), (113, 26065), (119, 26101), (143, 26236), (149, 26278), (158, 26359), (162, 26389), (169, 26455),

Gene: DevitoJr_28 Start: 25552, Stop: 26712, Start Num: 5

Candidate Starts for DevitoJr_28:

(Start: 4 @25549 has 9 MA's), (Start: 5 @25552 has 112 MA's), (6, 25558), (12, 25603), (24, 25690), (25, 25693), (31, 25717), (33, 25738), (45, 25819), (74, 25987), (84, 26044), (90, 26083), (99, 26131), (110, 26209), (113, 26236), (136, 26356), (143, 26407), (149, 26449), (158, 26530), (162, 26560), (169, 26626),

Gene: Dinallo_29 Start: 26620, Stop: 27780, Start Num: 5

Candidate Starts for Dinallo_29:

(Start: 4 @26617 has 9 MA's), (Start: 5 @26620 has 112 MA's), (6, 26626), (24, 26758), (25, 26761), (33, 26806), (45, 26887), (66, 27010), (67, 27013), (74, 27055), (84, 27112), (90, 27151), (110, 27277), (113, 27304), (136, 27424), (143, 27475), (149, 27517), (158, 27598), (162, 27628), (169, 27694),

Gene: Ditters_21 Start: 20009, Stop: 21172, Start Num: 5

Candidate Starts for Ditters_21:

(Start: 5 @20009 has 112 MA's), (16, 20114), (19, 20123), (22, 20138), (25, 20150), (31, 20174), (33, 20195), (35, 20201), (40, 20243), (48, 20291), (60, 20360), (77, 20465), (82, 20489), (91, 20549), (94, 20564), (100, 20600), (106, 20636), (117, 20720), (143, 20861), (146, 20876), (155, 20954), (158, 20984), (162, 21011), (163, 21017), (164, 21035),

Gene: DizzyRudy_26 Start: 21879, Stop: 23276, Start Num: 5

Candidate Starts for DizzyRudy_26:

(Start: 4 @21876 has 9 MA's), (Start: 5 @21879 has 112 MA's), (6, 21885), (17, 21987), (33, 22065), (49, 22167), (64, 22263), (65, 22266), (105, 22509), (118, 22602), (126, 22653), (127, 22689), (128, 22737), (129, 22749), (132, 22764), (138, 22824), (152, 23025), (158, 23085), (162, 23115),

Gene: Djungelskog_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for Djungelskog_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: DoctorPepper_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for DoctorPepper_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: Doxi13_21 Start: 19527, Stop: 20690, Start Num: 5

Candidate Starts for Doxi13_21:

(Start: 4 @19524 has 9 MA's), (Start: 5 @19527 has 112 MA's), (16, 19632), (24, 19665), (31, 19692), (32, 19710), (33, 19713), (34, 19716), (35, 19719), (40, 19761), (46, 19797), (48, 19809), (66, 19917), (91, 20067), (101, 20124), (111, 20193), (125, 20289), (136, 20331), (146, 20394), (155, 20472), (158, 20502), (162, 20529), (163, 20535), (164, 20553),

Gene: DrGrey_25 Start: 22958, Stop: 24130, Start Num: 5

Candidate Starts for DrGrey_25:

(Start: 4 @22955 has 9 MA's), (Start: 5 @22958 has 112 MA's), (16, 23063), (28, 23114), (31, 23123), (33, 23144), (35, 23150), (37, 23159), (40, 23192), (69, 23360), (70, 23366), (75, 23396), (82, 23438), (83, 23444), (93, 23510), (100, 23549), (107, 23588), (123, 23705), (124, 23714), (135, 23759), (136, 23762), (155, 23903), (158, 23933), (162, 23963), (163, 23969), (164, 23987), (173, 24068),

Gene: Dynamite_23 Start: 22523, Stop: 23584, Start Num: 2

Candidate Starts for Dynamite_23:

(Start: 2 @22523 has 20 MA's), (7, 22553), (10, 22580), (33, 22724), (87, 23009), (110, 23138), (111, 23147), (147, 23366), (149, 23387),

Gene: Eevee_28 Start: 25982, Stop: 27049, Start Num: 5

Candidate Starts for Eevee_28:

(Start: 5 @25982 has 112 MA's), (18, 26093), (25, 26123), (30, 26144), (33, 26168), (47, 26252), (59, 26300), (72, 26375), (73, 26381), (86, 26450), (123, 26693), (136, 26750), (142, 26804), (145, 26816), (165, 26987),

Gene: Egad_25 Start: 22609, Stop: 23775, Start Num: 5

Candidate Starts for Egad_25:

(Start: 5 @22609 has 112 MA's), (6, 22615), (16, 22714), (18, 22720), (30, 22771), (40, 22843), (71, 23029), (107, 23239), (108, 23248), (117, 23320), (121, 23350), (123, 23356), (139, 23428), (146, 23479), (157, 23581), (158, 23587), (160, 23605), (161, 23614), (162, 23617), (164, 23641), (167, 23677),

Gene: ElephantMan_28 Start: 26080, Stop: 27243, Start Num: 4

Candidate Starts for ElephantMan_28:

(Start: 4 @26080 has 9 MA's), (Start: 5 @26083 has 112 MA's), (6, 26089), (20, 26200), (24, 26221), (25, 26224), (33, 26269), (45, 26350), (67, 26476), (74, 26518), (84, 26575), (90, 26614), (113, 26767), (136, 26887), (143, 26938), (149, 26980), (154, 27028), (158, 27061), (162, 27091), (164, 27115), (169, 27157),

Gene: Elsa_24 Start: 23000, Stop: 24061, Start Num: 2

Candidate Starts for Elsa_24:

(Start: 2 @23000 has 20 MA's), (7, 23030), (10, 23057), (33, 23201), (87, 23486), (110, 23615), (111, 23624), (147, 23843), (149, 23864),

Gene: Elver_42 Start: 34608, Stop: 35774, Start Num: 5

Candidate Starts for Elver_42:

(Start: 4 @34605 has 9 MA's), (Start: 5 @34608 has 112 MA's), (6, 34614), (17, 34716), (33, 34794), (39, 34821), (42, 34851), (58, 34938), (86, 35109), (111, 35274), (157, 35577), (162, 35613), (167, 35673),

Gene: Esketit_25 Start: 22442, Stop: 23617, Start Num: 4

Candidate Starts for Esketit_25:

(Start: 4 @22442 has 9 MA's), (Start: 5 @22445 has 112 MA's), (16, 22550), (31, 22610), (33, 22631), (35, 22637), (40, 22679), (60, 22796), (69, 22847), (75, 22883), (82, 22925), (93, 22997), (100, 23036), (123, 23192), (124, 23201), (135, 23246), (136, 23249), (158, 23420), (162, 23450), (163, 23456),

(164, 23474), (169, 23516), (173, 23555),

Gene: Espio_26 Start: 22959, Stop: 24131, Start Num: 5

Candidate Starts for Espio_26:

(Start: 4 @22956 has 9 MA's), (Start: 5 @22959 has 112 MA's), (16, 23064), (28, 23115), (31, 23124), (33, 23145), (35, 23151), (37, 23160), (40, 23193), (69, 23361), (70, 23367), (75, 23397), (82, 23439), (83, 23445), (93, 23511), (100, 23550), (107, 23589), (123, 23706), (124, 23715), (135, 23760), (136, 23763), (155, 23904), (158, 23934), (162, 23964), (163, 23970), (164, 23988), (173, 24069),

Gene: FidgetOrca_25 Start: 22451, Stop: 23623, Start Num: 5

Candidate Starts for FidgetOrca_25:

(Start: 4 @22448 has 9 MA's), (Start: 5 @22451 has 112 MA's), (16, 22556), (31, 22616), (33, 22637), (35, 22643), (40, 22685), (60, 22802), (69, 22853), (75, 22889), (82, 22931), (93, 23003), (100, 23042), (123, 23198), (124, 23207), (135, 23252), (136, 23255), (158, 23426), (162, 23456), (163, 23462), (164, 23480), (169, 23522), (173, 23561),

Gene: FrodoSwaggins_25 Start: 22958, Stop: 24130, Start Num: 5

Candidate Starts for FrodoSwaggins_25:

(Start: 4 @22955 has 9 MA's), (Start: 5 @22958 has 112 MA's), (16, 23063), (28, 23114), (31, 23123), (33, 23144), (35, 23150), (37, 23159), (40, 23192), (69, 23360), (70, 23366), (75, 23396), (82, 23438), (83, 23444), (93, 23510), (100, 23549), (107, 23588), (123, 23705), (124, 23714), (135, 23759), (136, 23762), (155, 23903), (158, 23933), (162, 23963), (163, 23969), (164, 23987), (173, 24068),

Gene: FromIndy_24 Start: 21351, Stop: 22517, Start Num: 5

Candidate Starts for FromIndy_24:

(Start: 5 @21351 has 112 MA's), (14, 21435), (18, 21462), (31, 21516), (33, 21537), (35, 21543), (40, 21585), (43, 21609), (70, 21759), (72, 21774), (75, 21789), (82, 21831), (83, 21837), (93, 21903), (122, 22095), (125, 22113), (144, 22206), (162, 22356), (163, 22362), (164, 22380),

Gene: Gandionco_43 Start: 35130, Stop: 36296, Start Num: 5

Candidate Starts for Gandionco_43:

(Start: 4 @35127 has 9 MA's), (Start: 5 @35130 has 112 MA's), (6, 35136), (17, 35238), (33, 35316), (34, 35319), (39, 35343), (42, 35373), (58, 35460), (86, 35631), (111, 35796), (157, 36099), (162, 36135), (167, 36195),

Gene: GantcherGoblin_27 Start: 24460, Stop: 25623, Start Num: 5

Candidate Starts for GantcherGoblin_27:

(Start: 5 @24460 has 112 MA's), (16, 24565), (18, 24571), (33, 24646), (35, 24652), (40, 24691), (68, 24856), (71, 24877), (91, 24997), (131, 25231), (134, 25255), (135, 25258), (158, 25435), (162, 25465),

Gene: Giantsbane_29 Start: 24546, Stop: 25709, Start Num: 5

Candidate Starts for Giantsbane_29:

(Start: 5 @24546 has 112 MA's), (6, 24552), (12, 24597), (16, 24651), (33, 24732), (43, 24804), (45, 24813), (67, 24939), (87, 25059), (90, 25077), (106, 25173), (110, 25203), (113, 25230), (143, 25401), (149, 25443), (158, 25524), (162, 25554), (164, 25578), (169, 25620),

Gene: GirlPower_24 Start: 23929, Stop: 25101, Start Num: 5

Candidate Starts for GirlPower_24:

(Start: 4 @23926 has 9 MA's), (Start: 5 @23929 has 112 MA's), (16, 24034), (28, 24085), (31, 24094), (33, 24115), (35, 24121), (40, 24163), (60, 24280), (69, 24331), (75, 24367), (82, 24409), (83, 24415), (93, 24481), (100, 24520), (107, 24559), (123, 24676), (124, 24685), (135, 24730), (136, 24733), (158, 24904), (162, 24934), (163, 24940), (164, 24958), (173, 25039),

Gene: GoCrazy_22 Start: 22523, Stop: 23584, Start Num: 2

Candidate Starts for GoCrazy_22:

(Start: 2 @22523 has 20 MA's), (7, 22553), (10, 22580), (33, 22724), (87, 23009), (110, 23138), (111, 23147), (113, 23165), (147, 23366), (149, 23387), (153, 23411),

Gene: GoblinVoyage_21 Start: 19527, Stop: 20690, Start Num: 5

Candidate Starts for GoblinVoyage_21:

(Start: 4 @19524 has 9 MA's), (Start: 5 @19527 has 112 MA's), (16, 19632), (24, 19665), (31, 19692), (32, 19710), (33, 19713), (34, 19716), (35, 19719), (40, 19761), (46, 19797), (48, 19809), (66, 19917), (91, 20067), (101, 20124), (111, 20193), (125, 20289), (136, 20331), (146, 20394), (155, 20472), (158, 20502), (162, 20529), (163, 20535), (164, 20553),

Gene: Gordon_28 Start: 26657, Stop: 27817, Start Num: 5

Candidate Starts for Gordon_28:

(Start: 4 @26654 has 9 MA's), (Start: 5 @26657 has 112 MA's), (6, 26663), (12, 26708), (24, 26795), (25, 26798), (33, 26843), (55, 26963), (67, 27050), (74, 27092), (84, 27149), (90, 27188), (113, 27341), (119, 27377), (143, 27512), (149, 27554), (158, 27635), (162, 27665), (169, 27731),

Gene: Hankly_22 Start: 21745, Stop: 22806, Start Num: 2

Candidate Starts for Hankly_22:

(Start: 2 @21745 has 20 MA's), (7, 21775), (10, 21802), (33, 21946), (45, 22024), (63, 22096), (87, 22231), (110, 22360), (111, 22369), (113, 22387), (147, 22588), (149, 22609), (153, 22633),

Gene: HazuAndZazu_25 Start: 22962, Stop: 24134, Start Num: 5

Candidate Starts for HazuAndZazu_25:

(Start: 4 @22959 has 9 MA's), (Start: 5 @22962 has 112 MA's), (16, 23067), (31, 23127), (33, 23148), (35, 23154), (40, 23196), (60, 23313), (69, 23364), (75, 23400), (82, 23442), (93, 23514), (94, 23517), (100, 23553), (123, 23709), (124, 23718), (136, 23766), (158, 23937), (162, 23967), (163, 23973), (164, 23991), (169, 24033), (173, 24072),

Gene: Heisenberger_23 Start: 22393, Stop: 23454, Start Num: 2

Candidate Starts for Heisenberger_23:

(Start: 2 @22393 has 20 MA's), (7, 22423), (10, 22450), (33, 22594), (87, 22879), (110, 23008), (111, 23017), (113, 23035), (147, 23236), (149, 23257),

Gene: Hemma_25 Start: 21991, Stop: 23151, Start Num: 5

Candidate Starts for Hemma_25:

(Start: 4 @21988 has 9 MA's), (Start: 5 @21991 has 112 MA's), (6, 21997), (24, 22129), (25, 22132), (31, 22156), (33, 22177), (43, 22249), (45, 22258), (55, 22297), (67, 22384), (84, 22483), (90, 22522), (99, 22570), (107, 22621), (113, 22675), (119, 22711), (143, 22846), (144, 22849), (146, 22861), (154, 22936), (157, 22963), (162, 22999), (164, 23023),

Gene: HerbBucket_24 Start: 22609, Stop: 23775, Start Num: 5

Candidate Starts for HerbBucket_24:

(Start: 5 @22609 has 112 MA's), (6, 22615), (16, 22714), (18, 22720), (30, 22771), (40, 22843), (71, 23029), (107, 23239), (108, 23248), (117, 23320), (121, 23350), (123, 23356), (139, 23428), (146, 23479), (157, 23581), (158, 23587), (160, 23605), (161, 23614), (162, 23617), (164, 23641), (167, 23677),

Gene: Hoshi_25 Start: 22445, Stop: 23617, Start Num: 5

Candidate Starts for Hoshi_25:

(Start: 4 @22442 has 9 MA's), (Start: 5 @22445 has 112 MA's), (16, 22550), (31, 22610), (33, 22631), (35, 22637), (40, 22679), (60, 22796), (69, 22847), (75, 22883), (82, 22925), (93, 22997), (100, 23036), (123, 23192), (124, 23201), (135, 23246), (136, 23249), (158, 23420), (162, 23450), (163, 23456), (164, 23474), (169, 23516), (173, 23555),

Gene: HotFries_20 Start: 19525, Stop: 20688, Start Num: 5

Candidate Starts for HotFries_20:

(Start: 4 @19522 has 9 MA's), (Start: 5 @19525 has 112 MA's), (16, 19630), (24, 19663), (26, 19672), (31, 19690), (33, 19711), (34, 19714), (35, 19717), (39, 19738), (40, 19759), (46, 19795), (48, 19807), (66, 19915), (91, 20065), (93, 20077), (101, 20122), (111, 20191), (125, 20287), (146, 20392), (155, 20470), (158, 20500), (162, 20527), (163, 20533), (164, 20551),

Gene: IceWarrior_25 Start: 22445, Stop: 23617, Start Num: 5

Candidate Starts for IceWarrior_25:

(Start: 4 @22442 has 9 MA's), (Start: 5 @22445 has 112 MA's), (16, 22550), (31, 22610), (33, 22631), (35, 22637), (40, 22679), (60, 22796), (69, 22847), (75, 22883), (82, 22925), (93, 22997), (100, 23036), (123, 23192), (124, 23201), (135, 23246), (136, 23249), (158, 23420), (162, 23450), (163, 23456), (164, 23474), (169, 23516), (173, 23555),

Gene: Indigenous_25 Start: 22445, Stop: 23617, Start Num: 5

Candidate Starts for Indigenous_25:

(Start: 4 @22442 has 9 MA's), (Start: 5 @22445 has 112 MA's), (16, 22550), (31, 22610), (33, 22631), (35, 22637), (40, 22679), (60, 22796), (69, 22847), (75, 22883), (82, 22925), (93, 22997), (100, 23036), (123, 23192), (124, 23201), (135, 23246), (136, 23249), (158, 23420), (162, 23450), (163, 23456), (164, 23474), (169, 23516), (173, 23555),

Gene: Ingrid_28 Start: 25271, Stop: 26431, Start Num: 5

Candidate Starts for Ingrid_28:

(Start: 4 @25268 has 9 MA's), (Start: 5 @25271 has 112 MA's), (6, 25277), (12, 25322), (25, 25412), (33, 25457), (43, 25529), (45, 25538), (46, 25541), (55, 25577), (86, 25772), (90, 25802), (91, 25811), (111, 25937), (113, 25955), (133, 26066), (143, 26126), (144, 26129), (146, 26141), (154, 26216), (162, 26279),

Gene: Inked_30 Start: 26288, Stop: 27448, Start Num: 5

Candidate Starts for Inked_30:

(Start: 4 @26285 has 9 MA's), (Start: 5 @26288 has 112 MA's), (6, 26294), (33, 26474), (45, 26555), (55, 26594), (66, 26678), (84, 26780), (90, 26819), (93, 26840), (110, 26945), (113, 26972), (117, 26999), (134, 27086), (143, 27143), (154, 27233), (158, 27266), (162, 27296), (164, 27320),

Gene: Issa_28 Start: 25361, Stop: 26521, Start Num: 5

Candidate Starts for Issa_28:

(Start: 4 @25358 has 9 MA's), (Start: 5 @25361 has 112 MA's), (6, 25367), (12, 25412), (24, 25499), (25, 25502), (31, 25526), (33, 25547), (45, 25628), (74, 25796), (84, 25853), (90, 25892), (99, 25940), (110, 26018), (113, 26045), (136, 26165), (143, 26216), (149, 26258), (151, 26267), (154, 26306), (158, 26339), (162, 26369), (164, 26393), (169, 26435),

Gene: JEGGS_23 Start: 22447, Stop: 23508, Start Num: 2

Candidate Starts for JEGGS_23:

(Start: 2 @22447 has 20 MA's), (7, 22477), (10, 22504), (33, 22648), (87, 22933), (110, 23062), (111, 23071), (113, 23089), (147, 23290), (149, 23311),

Gene: Jaylociraptor_25 Start: 22445, Stop: 23617, Start Num: 5

Candidate Starts for Jaylociraptor_25:

(Start: 4 @22442 has 9 MA's), (Start: 5 @22445 has 112 MA's), (16, 22550), (31, 22610), (33, 22631), (35, 22637), (40, 22679), (60, 22796), (69, 22847), (75, 22883), (82, 22925), (93, 22997), (100, 23036), (123, 23192), (124, 23201), (135, 23246), (136, 23249), (158, 23420), (162, 23450), (163, 23456), (164, 23474), (169, 23516), (173, 23555),

Gene: Jazzy4900_26 Start: 24396, Stop: 25559, Start Num: 5

Candidate Starts for Jazzy4900_26:

(Start: 4 @24393 has 9 MA's), (Start: 5 @24396 has 112 MA's), (6, 24402), (17, 24504), (26, 24543), (29, 24555), (33, 24582), (39, 24609), (54, 24696), (82, 24876), (89, 24924), (110, 25053), (113, 25080), (134, 25194), (145, 25254), (162, 25398), (174, 25509),

Gene: JeNeSaisPas_41 Start: 35143, Stop: 36309, Start Num: 5

Candidate Starts for JeNeSaisPas_41:

(Start: 4 @35140 has 9 MA's), (Start: 5 @35143 has 112 MA's), (6, 35149), (17, 35251), (33, 35329), (39, 35356), (42, 35386), (58, 35473), (86, 35644), (111, 35809), (157, 36112), (162, 36148), (167, 36208),

Gene: Jeremy4pt0_24 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for Jeremy4pt0_24:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: JoyLin_28 Start: 25973, Stop: 27040, Start Num: 5

Candidate Starts for JoyLin_28:

(Start: 5 @25973 has 112 MA's), (18, 26084), (25, 26114), (30, 26135), (33, 26159), (47, 26243), (59, 26291), (72, 26366), (73, 26372), (86, 26441), (123, 26684), (136, 26741), (142, 26795), (145, 26807), (165, 26978),

Gene: Kardashian_24 Start: 22402, Stop: 23568, Start Num: 5

Candidate Starts for Kardashian_24:

(Start: 5 @22402 has 112 MA's), (29, 22561), (31, 22567), (33, 22588), (40, 22636), (52, 22696), (61, 22756), (72, 22825), (82, 22882), (93, 22954), (111, 23068), (117, 23113), (122, 23146), (125, 23164), (144, 23257), (156, 23368), (157, 23371), (158, 23377), (162, 23407), (163, 23413), (164, 23431),

Gene: Kardesai_22 Start: 22126, Stop: 23187, Start Num: 2

Candidate Starts for Kardesai_22:

(Start: 2 @22126 has 20 MA's), (7, 22156), (10, 22183), (33, 22327), (87, 22612), (110, 22741), (111, 22750), (113, 22768), (147, 22969), (149, 22990), (153, 23014),

Gene: KeaneyLin_22 Start: 22523, Stop: 23584, Start Num: 2

Candidate Starts for KeaneyLin_22:

(Start: 2 @22523 has 20 MA's), (7, 22553), (10, 22580), (33, 22724), (87, 23009), (110, 23138), (111, 23147), (113, 23165), (147, 23366), (149, 23387), (153, 23411),

Gene: KevinMinion_28 Start: 25554, Stop: 26717, Start Num: 5

Candidate Starts for KevinMinion_28:

(Start: 5 @25554 has 112 MA's), (16, 25659), (18, 25665), (33, 25740), (35, 25746), (40, 25785), (68, 25950), (71, 25971), (91, 26091), (120, 26289), (131, 26325), (134, 26349), (135, 26352), (158, 26529), (162, 26559),

Gene: Kinny_30 Start: 26309, Stop: 27472, Start Num: 5

Candidate Starts for Kinny_30:

(1, 26201), (Start: 5 @26309 has 112 MA's), (18, 26420), (24, 26447), (32, 26492), (33, 26495), (40, 26540), (62, 26669), (65, 26687), (73, 26735), (82, 26786), (111, 26972), (114, 26993), (157, 27278), (158, 27284), (162, 27314), (164, 27338),

Gene: Kureo_43 Start: 33953, Stop: 35119, Start Num: 5

Candidate Starts for Kureo_43:

(Start: 4 @33950 has 9 MA's), (Start: 5 @33953 has 112 MA's), (6, 33959), (17, 34061), (33, 34139), (34, 34142), (39, 34166), (42, 34196), (58, 34283), (86, 34454), (111, 34619), (157, 34922), (162, 34958), (167, 35018),

Gene: Leathea_28 Start: 24353, Stop: 25516, Start Num: 5

Candidate Starts for Leathea_28:

(Start: 5 @24353 has 112 MA's), (6, 24359), (26, 24500), (33, 24539), (40, 24584), (50, 24638), (55, 24656), (62, 24713), (65, 24731), (69, 24752), (103, 24965), (134, 25148), (137, 25157), (143, 25205), (147, 25229), (158, 25328), (162, 25358),

Gene: Lewando_31 Start: 26378, Stop: 27541, Start Num: 5

Candidate Starts for Lewando_31:

(1, 26270), (Start: 5 @26378 has 112 MA's), (18, 26489), (24, 26516), (32, 26561), (33, 26564), (39, 26591), (40, 26609), (62, 26738), (82, 26855), (111, 27041), (114, 27062), (157, 27347), (158, 27353), (162, 27383), (164, 27407), (169, 27449),

Gene: LibertyBell_23 Start: 21306, Stop: 22475, Start Num: 5

Candidate Starts for LibertyBell_23:

(Start: 4 @21303 has 9 MA's), (Start: 5 @21306 has 112 MA's), (16, 21411), (31, 21471), (33, 21492), (35, 21498), (40, 21540), (46, 21576), (48, 21588), (57, 21633), (75, 21744), (83, 21792), (99, 21885), (108, 21945), (158, 22281), (160, 22299), (162, 22311), (164, 22335), (168, 22374), (176, 22428),

Gene: LilHuddy_29 Start: 25729, Stop: 26892, Start Num: 5

Candidate Starts for LilHuddy_29:

(Start: 5 @25729 has 112 MA's), (6, 25735), (16, 25834), (33, 25915), (43, 25987), (67, 26122), (90, 26260), (110, 26386), (113, 26413), (119, 26449), (143, 26584), (149, 26626), (158, 26707), (162, 26737), (164, 26761), (169, 26803),

Gene: Linda_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for Linda_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: Loretta_28 Start: 25271, Stop: 26431, Start Num: 5

Candidate Starts for Loretta_28:

(Start: 4 @25268 has 9 MA's), (Start: 5 @25271 has 112 MA's), (6, 25277), (12, 25322), (25, 25412), (33, 25457), (43, 25529), (45, 25538), (46, 25541), (55, 25577), (86, 25772), (90, 25802), (91, 25811), (111, 25937), (113, 25955), (133, 26066), (143, 26126), (144, 26129), (146, 26141), (154, 26216), (162, 26279),

Gene: LucySwiss_28 Start: 25386, Stop: 26546, Start Num: 5

Candidate Starts for LucySwiss_28:

(Start: 4 @25383 has 9 MA's), (Start: 5 @25386 has 112 MA's), (6, 25392), (12, 25437), (24, 25524), (25, 25527), (33, 25572), (45, 25653), (67, 25779), (74, 25821), (84, 25878), (90, 25917), (110, 26043), (113, 26070), (136, 26190), (143, 26241), (149, 26283), (151, 26292), (154, 26331), (158, 26364),

(162, 26394), (164, 26418), (169, 26460),

Gene: Madamoto_25 Start: 22421, Stop: 23593, Start Num: 5

Candidate Starts for Madamoto_25:

(Start: 4 @22418 has 9 MA's), (Start: 5 @22421 has 112 MA's), (16, 22526), (28, 22577), (31, 22586), (33, 22607), (35, 22613), (40, 22655), (69, 22823), (70, 22829), (75, 22859), (82, 22901), (93, 22973), (100, 23012), (107, 23051), (123, 23168), (124, 23177), (135, 23222), (136, 23225), (158, 23396), (162, 23426), (163, 23432), (173, 23531),

Gene: Makai_28 Start: 25518, Stop: 26678, Start Num: 5

Candidate Starts for Makai_28:

(Start: 5 @25518 has 112 MA's), (6, 25524), (12, 25569), (16, 25623), (33, 25704), (45, 25785), (46, 25788), (55, 25824), (67, 25911), (86, 26019), (87, 26031), (90, 26049), (99, 26097), (110, 26175), (113, 26202), (119, 26238), (121, 26259), (136, 26322), (143, 26373), (144, 26376), (149, 26415), (154, 26463), (158, 26496), (162, 26526), (169, 26592),

Gene: Mardi_29 Start: 24988, Stop: 26151, Start Num: 5

Candidate Starts for Mardi_29:

(Start: 5 @24988 has 112 MA's), (16, 25093), (18, 25099), (33, 25174), (35, 25180), (40, 25219), (68, 25384), (71, 25405), (91, 25525), (103, 25600), (131, 25759), (134, 25783), (135, 25786), (158, 25963), (162, 25993),

Gene: Marianna39_43 Start: 35130, Stop: 36296, Start Num: 5

Candidate Starts for Marianna39_43:

(Start: 4 @35127 has 9 MA's), (Start: 5 @35130 has 112 MA's), (6, 35136), (17, 35238), (33, 35316), (34, 35319), (39, 35343), (42, 35373), (58, 35460), (86, 35631), (111, 35796), (157, 36099), (162, 36135), (167, 36195),

Gene: Maya_25 Start: 22459, Stop: 23631, Start Num: 5

Candidate Starts for Maya_25:

(Start: 4 @22456 has 9 MA's), (Start: 5 @22459 has 112 MA's), (16, 22564), (31, 22624), (33, 22645), (35, 22651), (40, 22693), (60, 22810), (69, 22861), (75, 22897), (82, 22939), (93, 23011), (100, 23050), (123, 23206), (124, 23215), (135, 23260), (136, 23263), (158, 23434), (162, 23464), (163, 23470), (164, 23488), (169, 23530), (173, 23569),

Gene: MediumFry_26 Start: 24717, Stop: 25880, Start Num: 5

Candidate Starts for MediumFry_26:

(Start: 4 @24714 has 9 MA's), (Start: 5 @24717 has 112 MA's), (6, 24723), (33, 24903), (43, 24975), (45, 24984), (55, 25023), (87, 25230), (90, 25248), (110, 25374), (113, 25401), (117, 25428), (142, 25569), (143, 25572), (154, 25662), (158, 25695), (162, 25725), (164, 25749),

Gene: Meibysrarus_25 Start: 22445, Stop: 23617, Start Num: 5

Candidate Starts for Meibysrarus_25:

(Start: 4 @22442 has 9 MA's), (Start: 5 @22445 has 112 MA's), (16, 22550), (31, 22610), (33, 22631), (35, 22637), (40, 22679), (60, 22796), (69, 22847), (75, 22883), (82, 22925), (93, 22997), (100, 23036), (123, 23192), (124, 23201), (135, 23246), (136, 23249), (158, 23420), (162, 23450), (163, 23456), (164, 23474), (169, 23516), (173, 23555),

Gene: Michelle_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for Michelle_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167,

23676),

Gene: Miek_23 Start: 21363, Stop: 22529, Start Num: 5

Candidate Starts for Miek_23:

(Start: 5 @21363 has 112 MA's), (14, 21447), (18, 21474), (31, 21528), (33, 21549), (35, 21555), (40, 21597), (43, 21621), (72, 21786), (75, 21801), (82, 21843), (83, 21849), (93, 21915), (122, 22107), (125, 22125), (144, 22218), (162, 22368), (163, 22374), (164, 22392),

Gene: MiniBagel_28 Start: 26611, Stop: 27771, Start Num: 5

Candidate Starts for MiniBagel_28:

(Start: 4 @26608 has 9 MA's), (Start: 5 @26611 has 112 MA's), (6, 26617), (24, 26749), (25, 26752), (33, 26797), (45, 26878), (66, 27001), (67, 27004), (74, 27046), (84, 27103), (90, 27142), (110, 27268), (113, 27295), (136, 27415), (143, 27466), (149, 27508), (158, 27589), (162, 27619), (169, 27685),

Gene: Monse_21 Start: 19551, Stop: 20714, Start Num: 5

Candidate Starts for Monse_21:

(Start: 5 @19551 has 112 MA's), (16, 19656), (19, 19665), (25, 19692), (31, 19716), (33, 19737), (34, 19740), (35, 19743), (40, 19785), (48, 19833), (60, 19902), (77, 20007), (91, 20091), (93, 20103), (94, 20106), (100, 20142), (106, 20178), (117, 20262), (143, 20403), (146, 20418), (155, 20496), (158, 20526), (162, 20553), (163, 20559), (164, 20577),

Gene: Mooshroom_23 Start: 22126, Stop: 23187, Start Num: 2

Candidate Starts for Mooshroom_23:

(Start: 2 @22126 has 20 MA's), (7, 22156), (10, 22183), (33, 22327), (87, 22612), (110, 22741), (111, 22750), (113, 22768), (147, 22969), (149, 22990), (153, 23014),

Gene: Moozy_21 Start: 19542, Stop: 20705, Start Num: 5

Candidate Starts for Moozy_21:

(Start: 4 @19539 has 9 MA's), (Start: 5 @19542 has 112 MA's), (16, 19647), (24, 19680), (31, 19707), (33, 19728), (34, 19731), (35, 19734), (40, 19776), (46, 19812), (48, 19824), (66, 19932), (91, 20082), (93, 20094), (101, 20139), (111, 20208), (125, 20304), (136, 20346), (146, 20409), (155, 20487), (158, 20517), (162, 20544), (163, 20550), (164, 20568),

Gene: MrAaronian_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for MrAaronian_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: Mudcat_23 Start: 24424, Stop: 25485, Start Num: 2

Candidate Starts for Mudcat_23:

(Start: 2 @24424 has 20 MA's), (7, 24454), (10, 24481), (33, 24625), (87, 24910), (110, 25039), (111, 25048), (113, 25066), (147, 25267), (149, 25288),

Gene: Muglass_30 Start: 25946, Stop: 27109, Start Num: 5

Candidate Starts for Muglass_30:

(Start: 5 @25946 has 112 MA's), (17, 26054), (18, 26057), (24, 26084), (32, 26129), (33, 26132), (40, 26177), (62, 26306), (65, 26324), (73, 26372), (82, 26423), (111, 26609), (114, 26630), (158, 26921), (162, 26951), (164, 26975),

Gene: Namo_25 Start: 22451, Stop: 23623, Start Num: 5

Candidate Starts for Namo_25:

(Start: 4 @22448 has 9 MA's), (Start: 5 @22451 has 112 MA's), (16, 22556), (31, 22616), (33, 22637), (35, 22643), (40, 22685), (60, 22802), (69, 22853), (75, 22889), (82, 22931), (93, 23003), (100, 23042), (123, 23198), (124, 23207), (135, 23252), (136, 23255), (158, 23426), (162, 23456), (163, 23462), (164, 23480), (169, 23522), (173, 23561),

Gene: NapoleonB_23 Start: 22523, Stop: 23584, Start Num: 2

Candidate Starts for NapoleonB_23:

(Start: 2 @22523 has 20 MA's), (7, 22553), (10, 22580), (33, 22724), (87, 23009), (110, 23138), (111, 23147), (147, 23366), (149, 23387),

Gene: Nason_24 Start: 23000, Stop: 24061, Start Num: 2

Candidate Starts for Nason_24:

(Start: 2 @23000 has 20 MA's), (7, 23030), (10, 23057), (33, 23201), (87, 23486), (110, 23615), (111, 23624), (147, 23843), (149, 23864),

Gene: Natasha_25 Start: 22016, Stop: 23179, Start Num: 5

Candidate Starts for Natasha_25:

(Start: 5 @22016 has 112 MA's), (29, 22175), (33, 22202), (40, 22250), (41, 22253), (46, 22286), (53, 22313), (55, 22322), (87, 22529), (90, 22547), (104, 22634), (112, 22691), (113, 22700), (122, 22760), (135, 22817), (143, 22871), (158, 22994), (162, 23024), (164, 23048),

Gene: Navi1117_28 Start: 24627, Stop: 25790, Start Num: 5

Candidate Starts for Navi1117_28:

(Start: 5 @24627 has 112 MA's), (16, 24732), (18, 24738), (33, 24813), (35, 24819), (40, 24858), (68, 25023), (71, 25044), (91, 25164), (103, 25239), (110, 25281), (120, 25362), (123, 25371), (131, 25398), (134, 25422), (135, 25425), (158, 25602), (162, 25632),

Gene: Nightmare_29 Start: 25921, Stop: 27081, Start Num: 5

Candidate Starts for Nightmare_29:

(Start: 4 @25918 has 9 MA's), (Start: 5 @25921 has 112 MA's), (6, 25927), (12, 25972), (24, 26059), (25, 26062), (31, 26086), (33, 26107), (45, 26188), (74, 26356), (84, 26413), (90, 26452), (99, 26500), (110, 26578), (113, 26605), (136, 26725), (143, 26776), (149, 26818), (151, 26827), (154, 26866), (158, 26899), (162, 26929), (164, 26953), (169, 26995),

Gene: Niktson_28 Start: 26080, Stop: 27243, Start Num: 4

Candidate Starts for Niktson_28:

(Start: 4 @26080 has 9 MA's), (Start: 5 @26083 has 112 MA's), (6, 26089), (20, 26200), (24, 26221), (25, 26224), (33, 26269), (45, 26350), (67, 26476), (74, 26518), (84, 26575), (90, 26614), (113, 26767), (136, 26887), (143, 26938), (149, 26980), (154, 27028), (158, 27061), (162, 27091), (164, 27115), (169, 27157),

Gene: Nivinsha_28 Start: 25471, Stop: 26631, Start Num: 5

Candidate Starts for Nivinsha_28:

(Start: 4 @25468 has 9 MA's), (Start: 5 @25471 has 112 MA's), (6, 25477), (12, 25522), (24, 25609), (25, 25612), (33, 25657), (43, 25729), (55, 25777), (67, 25864), (74, 25906), (84, 25963), (90, 26002), (110, 26128), (113, 26155), (119, 26191), (136, 26275), (143, 26326), (149, 26368), (158, 26449), (162, 26479), (169, 26545),

Gene: OlympicHelado_25 Start: 22448, Stop: 23623, Start Num: 4

Candidate Starts for OlympicHelado_25:

(Start: 4 @22448 has 9 MA's), (Start: 5 @22451 has 112 MA's), (16, 22556), (31, 22616), (33, 22637), (35, 22643), (40, 22685), (60, 22802), (69, 22853), (75, 22889), (82, 22931), (93, 23003), (100, 23042), (123, 23198), (124, 23207), (135, 23252), (136, 23255), (158, 23426), (162, 23456), (163, 23462),

(164, 23480), (169, 23522), (173, 23561),

Gene: Onestar_25 Start: 22394, Stop: 23557, Start Num: 5

Candidate Starts for Onestar_25:

(Start: 5 @22394 has 112 MA's), (6, 22400), (17, 22502), (30, 22556), (31, 22559), (40, 22628), (66, 22784), (80, 22865), (96, 22958), (108, 23030), (109, 23033), (139, 23210), (152, 23309), (155, 23339), (161, 23396), (162, 23399), (164, 23423),

Gene: Paella_42 Start: 34610, Stop: 35776, Start Num: 5

Candidate Starts for Paella_42:

(Start: 4 @34607 has 9 MA's), (Start: 5 @34610 has 112 MA's), (6, 34616), (17, 34718), (33, 34796), (39, 34823), (42, 34853), (58, 34940), (86, 35111), (111, 35276), (157, 35579), (162, 35615), (167, 35675),

Gene: Phaby_29 Start: 25658, Stop: 26821, Start Num: 5

Candidate Starts for Phaby_29:

(Start: 5 @25658 has 112 MA's), (6, 25664), (12, 25709), (16, 25763), (33, 25844), (43, 25916), (45, 25925), (55, 25964), (67, 26051), (87, 26171), (90, 26189), (98, 26234), (110, 26315), (113, 26342), (119, 26378), (143, 26513), (144, 26516), (158, 26636), (162, 26666), (169, 26732),

Gene: Phaila_27 Start: 24038, Stop: 25201, Start Num: 5

Candidate Starts for Phaila_27:

(Start: 5 @24038 has 112 MA's), (16, 24143), (18, 24149), (33, 24224), (35, 24230), (40, 24269), (68, 24434), (71, 24455), (91, 24575), (108, 24674), (131, 24809), (134, 24833), (135, 24836), (158, 25013), (162, 25043),

Gene: PherryCruz_20 Start: 19524, Stop: 20690, Start Num: 4

Candidate Starts for PherryCruz_20:

(Start: 4 @19524 has 9 MA's), (Start: 5 @19527 has 112 MA's), (16, 19632), (24, 19665), (26, 19674), (31, 19692), (33, 19713), (34, 19716), (35, 19719), (39, 19740), (40, 19761), (46, 19797), (48, 19809), (66, 19917), (91, 20067), (101, 20124), (125, 20289), (146, 20394), (155, 20472), (158, 20502), (162, 20529), (163, 20535), (164, 20553),

Gene: Pippin15_27 Start: 23621, Stop: 24688, Start Num: 5

Candidate Starts for Pippin15_27:

(Start: 5 @23621 has 112 MA's), (18, 23732), (25, 23762), (30, 23783), (33, 23807), (34, 23810), (38, 23825), (72, 24014), (73, 24020), (86, 24089), (136, 24389), (143, 24446), (145, 24455), (163, 24605), (165, 24626),

Gene: PoeMe_29 Start: 25316, Stop: 26479, Start Num: 5

Candidate Starts for PoeMe_29:

(Start: 5 @25316 has 112 MA's), (16, 25421), (18, 25427), (33, 25502), (35, 25508), (40, 25547), (68, 25712), (71, 25733), (91, 25853), (110, 25970), (131, 26087), (134, 26111), (135, 26114), (158, 26291), (162, 26321),

Gene: Popy_25 Start: 22958, Stop: 24130, Start Num: 5

Candidate Starts for Popy_25:

(Start: 4 @22955 has 9 MA's), (Start: 5 @22958 has 112 MA's), (16, 23063), (28, 23114), (31, 23123), (33, 23144), (35, 23150), (37, 23159), (40, 23192), (69, 23360), (70, 23366), (75, 23396), (82, 23438), (83, 23444), (93, 23510), (100, 23549), (107, 23588), (123, 23705), (124, 23714), (135, 23759), (136, 23762), (155, 23903), (158, 23933), (162, 23963), (163, 23969), (164, 23987), (173, 24068),

Gene: Powelldog_26 Start: 22332, Stop: 23483, Start Num: 5

Candidate Starts for Powelldog_26:

(Start: 5 @22332 has 112 MA's), (8, 22359), (11, 22377), (16, 22437), (24, 22470), (33, 22518), (44, 22587), (50, 22608), (53, 22617), (76, 22773), (83, 22806), (90, 22851), (108, 22959), (109, 22962), (112, 22995), (113, 23004), (117, 23031), (122, 23064), (134, 23118), (141, 23163), (148, 23214), (150, 23220), (151, 23226), (158, 23298), (162, 23328), (163, 23334), (164, 23352),

Gene: ProfFrink_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for ProfFrink_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: Qui_42 Start: 34610, Stop: 35776, Start Num: 5

Candidate Starts for Qui_42:

(Start: 4 @34607 has 9 MA's), (Start: 5 @34610 has 112 MA's), (6, 34616), (17, 34718), (33, 34796), (39, 34823), (42, 34853), (58, 34940), (86, 35111), (111, 35276), (157, 35579), (162, 35615), (167, 35675),

Gene: Rainydai_23 Start: 21363, Stop: 22529, Start Num: 5

Candidate Starts for Rainydai_23:

(Start: 5 @21363 has 112 MA's), (14, 21447), (18, 21474), (31, 21528), (33, 21549), (35, 21555), (40, 21597), (43, 21621), (70, 21771), (72, 21786), (75, 21801), (82, 21843), (83, 21849), (93, 21915), (122, 22107), (125, 22125), (144, 22218), (162, 22368), (163, 22374), (164, 22392),

Gene: Raunak_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for Raunak_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: RavenPuff_20 Start: 19527, Stop: 20690, Start Num: 5

Candidate Starts for RavenPuff_20:

(Start: 4 @19524 has 9 MA's), (Start: 5 @19527 has 112 MA's), (16, 19632), (24, 19665), (26, 19674), (31, 19692), (33, 19713), (34, 19716), (35, 19719), (39, 19740), (40, 19761), (46, 19797), (48, 19809), (66, 19917), (91, 20067), (101, 20124), (125, 20289), (146, 20394), (155, 20472), (158, 20502), (162, 20529), (163, 20535), (164, 20553),

Gene: Regigigas_24 Start: 21363, Stop: 22529, Start Num: 5

Candidate Starts for Regigigas_24:

(Start: 5 @21363 has 112 MA's), (14, 21447), (18, 21474), (31, 21528), (33, 21549), (35, 21555), (40, 21597), (43, 21621), (70, 21771), (72, 21786), (75, 21801), (82, 21843), (83, 21849), (93, 21915), (122, 22107), (125, 22125), (144, 22218), (162, 22368), (163, 22374), (164, 22392),

Gene: Renaldo_33 Start: 26387, Stop: 27550, Start Num: 5

Candidate Starts for Renaldo_33:

(Start: 5 @26387 has 112 MA's), (18, 26498), (24, 26525), (32, 26570), (33, 26573), (39, 26600), (40, 26618), (62, 26747), (82, 26864), (111, 27050), (114, 27071), (157, 27356), (158, 27362), (162, 27392), (164, 27416), (169, 27458),

Gene: Rima_25 Start: 22448, Stop: 23623, Start Num: 4

Candidate Starts for Rima_25:

(Start: 4 @22448 has 9 MA's), (Start: 5 @22451 has 112 MA's), (16, 22556), (31, 22616), (33, 22637), (35, 22643), (40, 22685), (60, 22802), (69, 22853), (75, 22889), (82, 22931), (93, 23003), (100, 23042), (123, 23198), (124, 23207), (135, 23252), (136, 23255), (158, 23426), (162, 23456), (163, 23462), (164, 23480), (169, 23522), (173, 23561),

Gene: RosaAsantewaa_21 Start: 19335, Stop: 20507, Start Num: 5

Candidate Starts for RosaAsantewaa_21:

(Start: 5 @19335 has 112 MA's), (9, 19371), (31, 19500), (32, 19518), (33, 19521), (35, 19527), (48, 19617), (77, 19791), (82, 19815), (83, 19821), (90, 19866), (93, 19887), (143, 20187), (158, 20310), (160, 20328), (162, 20340), (163, 20346), (164, 20364), (167, 20400),

Gene: RustyBoy_25 Start: 21998, Stop: 23161, Start Num: 5

Candidate Starts for RustyBoy_25:

(Start: 5 @21998 has 112 MA's), (33, 22184), (40, 22232), (41, 22235), (46, 22268), (53, 22295), (55, 22304), (87, 22511), (90, 22529), (104, 22616), (112, 22673), (113, 22682), (122, 22742), (135, 22799), (143, 22853), (158, 22976), (162, 23006), (164, 23030),

Gene: Salk_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for Salk_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: Sangak_21 Start: 19528, Stop: 20691, Start Num: 5

Candidate Starts for Sangak_21:

(Start: 4 @19525 has 9 MA's), (Start: 5 @19528 has 112 MA's), (16, 19633), (24, 19666), (31, 19693), (32, 19711), (33, 19714), (34, 19717), (35, 19720), (40, 19762), (46, 19798), (48, 19810), (66, 19918), (91, 20068), (101, 20125), (111, 20194), (125, 20290), (136, 20332), (146, 20395), (155, 20473), (158, 20503), (162, 20530), (163, 20536), (164, 20554),

Gene: Scap1_21 Start: 19479, Stop: 20642, Start Num: 5

Candidate Starts for Scap1_21:

(Start: 5 @19479 has 112 MA's), (16, 19584), (19, 19593), (22, 19608), (25, 19620), (31, 19644), (33, 19665), (35, 19671), (40, 19713), (46, 19749), (48, 19761), (57, 19806), (60, 19830), (77, 19935), (82, 19959), (91, 20019), (94, 20034), (100, 20070), (106, 20106), (110, 20136), (117, 20190), (146, 20346), (155, 20424), (158, 20454), (162, 20481), (163, 20487), (164, 20505),

Gene: ScienceWizSam_30 Start: 25872, Stop: 27032, Start Num: 5

Candidate Starts for ScienceWizSam_30:

(Start: 4 @25869 has 9 MA's), (Start: 5 @25872 has 112 MA's), (6, 25878), (12, 25923), (24, 26010), (25, 26013), (33, 26058), (43, 26130), (55, 26178), (67, 26265), (74, 26307), (84, 26364), (90, 26403), (110, 26529), (113, 26556), (143, 26727), (149, 26769), (158, 26850), (162, 26880), (169, 26946),

Gene: SendItCS_22 Start: 21363, Stop: 22529, Start Num: 5

Candidate Starts for SendItCS_22:

(Start: 5 @21363 has 112 MA's), (14, 21447), (18, 21474), (31, 21528), (33, 21549), (35, 21555), (40, 21597), (43, 21621), (72, 21786), (75, 21801), (82, 21843), (83, 21849), (93, 21915), (122, 22107), (125, 22125), (144, 22218), (162, 22368), (163, 22374), (164, 22392),

Gene: Serenabean_27 Start: 23971, Stop: 25038, Start Num: 5

Candidate Starts for Serenabean_27:

(Start: 5 @23971 has 112 MA's), (18, 24082), (27, 24124), (30, 24133), (33, 24157), (47, 24238), (73, 24370), (87, 24451), (95, 24496), (102, 24535), (163, 24955), (171, 25027),

Gene: SheRa_21 Start: 19526, Stop: 20689, Start Num: 5

Candidate Starts for SheRa_21:

(Start: 4 @19523 has 9 MA's), (Start: 5 @19526 has 112 MA's), (16, 19631), (24, 19664), (26, 19673), (31, 19691), (33, 19712), (34, 19715), (35, 19718), (39, 19739), (40, 19760), (46, 19796), (48, 19808), (91, 20066), (93, 20078), (101, 20123), (111, 20192), (125, 20288), (146, 20393), (155, 20471), (158, 20501), (162, 20528), (163, 20534), (164, 20552),

Gene: Shepard_29 Start: 25726, Stop: 26889, Start Num: 5

Candidate Starts for Shepard_29:

(Start: 5 @25726 has 112 MA's), (6, 25732), (16, 25831), (33, 25912), (43, 25984), (45, 25993), (67, 26119), (90, 26257), (110, 26383), (113, 26410), (119, 26446), (143, 26581), (149, 26623), (158, 26704), (162, 26734), (164, 26758), (169, 26800),

Gene: Shiba_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for Shiba_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: Sloopyjoe_25 Start: 22609, Stop: 23775, Start Num: 5

Candidate Starts for Sloopyjoe_25:

(Start: 5 @22609 has 112 MA's), (6, 22615), (16, 22714), (18, 22720), (30, 22771), (40, 22843), (71, 23029), (107, 23239), (108, 23248), (117, 23320), (121, 23350), (123, 23356), (139, 23428), (146, 23479), (157, 23581), (158, 23587), (160, 23605), (161, 23614), (162, 23617), (164, 23641), (167, 23677),

Gene: Soshi_25 Start: 22964, Stop: 24136, Start Num: 5

Candidate Starts for Soshi_25:

(Start: 4 @22961 has 9 MA's), (Start: 5 @22964 has 112 MA's), (16, 23069), (28, 23120), (31, 23129), (33, 23150), (35, 23156), (37, 23165), (40, 23198), (69, 23366), (70, 23372), (75, 23402), (82, 23444), (83, 23450), (93, 23516), (100, 23555), (107, 23594), (123, 23711), (124, 23720), (135, 23765), (136, 23768), (155, 23909), (158, 23939), (162, 23969), (163, 23975), (164, 23993), (173, 24074),

Gene: Spain_24 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for Spain_24:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: Spectropatronm_25 Start: 22445, Stop: 23617, Start Num: 5

Candidate Starts for Spectropatronm_25:

(Start: 4 @22442 has 9 MA's), (Start: 5 @22445 has 112 MA's), (16, 22550), (31, 22610), (33, 22631), (35, 22637), (40, 22679), (60, 22796), (69, 22847), (75, 22883), (82, 22925), (93, 22997), (100, 23036), (123, 23192), (124, 23201), (135, 23246), (136, 23249), (158, 23420), (162, 23450), (163, 23456), (164, 23474), (169, 23516), (173, 23555),

Gene: Sporto_26 Start: 23819, Stop: 24985, Start Num: 5

Candidate Starts for Sporto_26:

(Start: 5 @23819 has 112 MA's), (6, 23825), (16, 23924), (18, 23930), (30, 23981), (31, 23984), (33, 24005), (40, 24053), (53, 24116), (72, 24242), (88, 24341), (96, 24383), (109, 24461), (121, 24560), (147, 24698), (161, 24824), (162, 24827),

Gene: Sprinkle_25 Start: 22726, Stop: 23889, Start Num: 5

Candidate Starts for Sprinkle_25:

(Start: 5 @22726 has 112 MA's), (33, 22912), (35, 22918), (42, 22969), (53, 23023), (55, 23032), (65, 23107), (93, 23278), (96, 23290), (99, 23305), (104, 23344), (107, 23356), (133, 23521), (136, 23530), (158, 23704), (162, 23734), (163, 23740), (164, 23758), (172, 23815),

Gene: StarLord_25 Start: 22609, Stop: 23775, Start Num: 5

Candidate Starts for StarLord_25:

(Start: 5 @22609 has 112 MA's), (6, 22615), (16, 22714), (18, 22720), (30, 22771), (40, 22843), (71, 23029), (107, 23239), (108, 23248), (117, 23320), (121, 23350), (123, 23356), (139, 23428), (146, 23479), (157, 23581), (158, 23587), (160, 23605), (161, 23614), (162, 23617), (164, 23641), (167, 23677),

Gene: Stardrop_29 Start: 25012, Stop: 26175, Start Num: 5

Candidate Starts for Stardrop_29:

(Start: 5 @25012 has 112 MA's), (16, 25117), (18, 25123), (33, 25198), (35, 25204), (40, 25243), (68, 25408), (71, 25429), (91, 25549), (110, 25666), (134, 25807), (135, 25810), (157, 25981), (158, 25987), (162, 26017),

Gene: Stayer_25 Start: 22608, Stop: 23774, Start Num: 5

Candidate Starts for Stayer_25:

(Start: 5 @22608 has 112 MA's), (6, 22614), (16, 22713), (18, 22719), (30, 22770), (40, 22842), (71, 23028), (107, 23238), (108, 23247), (117, 23319), (121, 23349), (123, 23355), (139, 23427), (146, 23478), (157, 23580), (158, 23586), (160, 23604), (161, 23613), (162, 23616), (164, 23640), (167, 23676),

Gene: Sunny4976_25 Start: 24396, Stop: 25559, Start Num: 5

Candidate Starts for Sunny4976_25:

(Start: 4 @24393 has 9 MA's), (Start: 5 @24396 has 112 MA's), (6, 24402), (17, 24504), (26, 24543), (29, 24555), (33, 24582), (39, 24609), (54, 24696), (82, 24876), (89, 24924), (110, 25053), (113, 25080), (134, 25194), (145, 25254), (162, 25398), (174, 25509),

Gene: Sweetclover_28 Start: 23413, Stop: 24480, Start Num: 5

Candidate Starts for Sweetclover_28:

(Start: 5 @23413 has 112 MA's), (8, 23440), (15, 23503), (18, 23524), (25, 23554), (29, 23572), (30, 23575), (33, 23599), (47, 23680), (56, 23713), (81, 23857), (86, 23881), (95, 23938), (123, 24121), (147, 24256), (157, 24355), (171, 24469),

Gene: Synopsis_27 Start: 25532, Stop: 26695, Start Num: 4

Candidate Starts for Synopsis_27:

(Start: 4 @25532 has 9 MA's), (Start: 5 @25535 has 112 MA's), (6, 25541), (12, 25586), (24, 25673), (25, 25676), (33, 25721), (43, 25793), (55, 25841), (67, 25928), (74, 25970), (84, 26027), (90, 26066), (110, 26192), (113, 26219), (119, 26255), (143, 26390), (149, 26432), (158, 26513), (162, 26543), (169, 26609),

Gene: TaidaOne_25 Start: 23093, Stop: 24265, Start Num: 5

Candidate Starts for TaidaOne_25:

(Start: 4 @23090 has 9 MA's), (Start: 5 @23093 has 112 MA's), (16, 23198), (31, 23258), (33, 23279), (35, 23285), (40, 23327), (60, 23444), (69, 23495), (75, 23531), (82, 23573), (93, 23645), (94, 23648),

(100, 23684), (123, 23840), (124, 23849), (135, 23894), (136, 23897), (158, 24068), (162, 24098), (163, 24104), (164, 24122), (169, 24164), (173, 24203),

Gene: Tatanka_28 Start: 26019, Stop: 27179, Start Num: 5

Candidate Starts for Tatanka_28:

(Start: 4 @26016 has 9 MA's), (Start: 5 @26019 has 112 MA's), (6, 26025), (12, 26070), (24, 26157), (25, 26160), (33, 26205), (43, 26277), (55, 26325), (67, 26412), (74, 26454), (84, 26511), (90, 26550), (110, 26676), (113, 26703), (119, 26739), (136, 26823), (143, 26874), (149, 26916), (158, 26997), (162, 27027), (169, 27093),

Gene: Teacup_28 Start: 25391, Stop: 26551, Start Num: 5

Candidate Starts for Teacup_28:

(Start: 4 @25388 has 9 MA's), (Start: 5 @25391 has 112 MA's), (6, 25397), (24, 25529), (25, 25532), (33, 25577), (45, 25658), (55, 25697), (66, 25781), (74, 25826), (84, 25883), (90, 25922), (110, 26048), (113, 26075), (119, 26111), (136, 26195), (143, 26246), (149, 26288), (151, 26297), (154, 26336), (158, 26369), (162, 26399), (164, 26423), (169, 26465),

Gene: Tenney120_28 Start: 24749, Stop: 25912, Start Num: 5

Candidate Starts for Tenney120_28:

(Start: 5 @24749 has 112 MA's), (16, 24854), (18, 24860), (33, 24935), (35, 24941), (40, 24980), (68, 25145), (71, 25166), (91, 25286), (131, 25520), (134, 25544), (135, 25547), (158, 25724), (162, 25754),

Gene: Tenno_29 Start: 26620, Stop: 27780, Start Num: 5

Candidate Starts for Tenno_29:

(Start: 4 @26617 has 9 MA's), (Start: 5 @26620 has 112 MA's), (6, 26626), (24, 26758), (25, 26761), (33, 26806), (45, 26887), (66, 27010), (67, 27013), (74, 27055), (84, 27112), (90, 27151), (110, 27277), (113, 27304), (136, 27424), (143, 27475), (149, 27517), (158, 27598), (162, 27628), (169, 27694),

Gene: Thiqqums_23 Start: 21363, Stop: 22529, Start Num: 5

Candidate Starts for Thiqqums_23:

(Start: 5 @21363 has 112 MA's), (14, 21447), (18, 21474), (31, 21528), (33, 21549), (35, 21555), (40, 21597), (43, 21621), (70, 21771), (72, 21786), (75, 21801), (82, 21843), (83, 21849), (93, 21915), (122, 22107), (125, 22125), (144, 22218), (162, 22368), (163, 22374), (164, 22392),

Gene: TieDye_24 Start: 22137, Stop: 23309, Start Num: 5

Candidate Starts for TieDye_24:

(Start: 4 @22134 has 9 MA's), (Start: 5 @22137 has 112 MA's), (16, 22242), (31, 22302), (33, 22323), (35, 22329), (40, 22371), (60, 22488), (69, 22539), (75, 22575), (82, 22617), (93, 22689), (100, 22728), (123, 22884), (124, 22893), (135, 22938), (136, 22941), (158, 23112), (162, 23142), (163, 23148), (164, 23166), (169, 23208), (173, 23247),

Gene: Tipton_29 Start: 25722, Stop: 26885, Start Num: 5

Candidate Starts for Tipton_29:

(Start: 5 @25722 has 112 MA's), (6, 25728), (12, 25773), (16, 25827), (33, 25908), (45, 25989), (55, 26028), (76, 26175), (87, 26235), (90, 26253), (91, 26262), (98, 26298), (100, 26313), (110, 26379), (113, 26406), (119, 26442), (121, 26463), (131, 26499), (135, 26523), (136, 26526), (143, 26577), (149, 26619), (151, 26628), (154, 26667), (158, 26700), (161, 26727), (162, 26730), (169, 26796),

Gene: Tokki_29 Start: 25674, Stop: 26837, Start Num: 5

Candidate Starts for Tokki_29:

(Start: 5 @25674 has 112 MA's), (6, 25680), (12, 25725), (16, 25779), (33, 25860), (43, 25932), (45, 25941), (55, 25980), (67, 26067), (87, 26187), (90, 26205), (97, 26244), (98, 26250), (99, 26253), (110,

26331), (113, 26358), (119, 26394), (143, 26529), (144, 26532), (158, 26652), (162, 26682), (169, 26748),

Gene: TonyStarch_25 Start: 22451, Stop: 23623, Start Num: 5

Candidate Starts for TonyStarch_25:

(Start: 4 @22448 has 9 MA's), (Start: 5 @22451 has 112 MA's), (16, 22556), (31, 22616), (33, 22637), (35, 22643), (40, 22685), (60, 22802), (69, 22853), (75, 22889), (82, 22931), (93, 23003), (100, 23042), (123, 23198), (124, 23207), (135, 23252), (136, 23255), (158, 23426), (162, 23456), (163, 23462), (164, 23480), (169, 23522), (173, 23561),

Gene: Tribby_24 Start: 22715, Stop: 23776, Start Num: 2

Candidate Starts for Tribby_24:

(Start: 2 @22715 has 20 MA's), (7, 22745), (10, 22772), (31, 22895), (33, 22916), (38, 22934), (62, 23063), (87, 23201), (110, 23330), (113, 23357), (147, 23558), (149, 23579),

Gene: TrixiePhattel_28 Start: 24584, Stop: 25747, Start Num: 5

Candidate Starts for TrixiePhattel_28:

(Start: 5 @24584 has 112 MA's), (16, 24689), (18, 24695), (30, 24746), (33, 24770), (35, 24776), (40, 24815), (68, 24980), (71, 25001), (91, 25121), (108, 25220), (110, 25238), (120, 25319), (131, 25355), (133, 25376), (134, 25379), (135, 25382), (157, 25553), (158, 25559), (162, 25589),

Gene: Truckee_27 Start: 25563, Stop: 26723, Start Num: 5

Candidate Starts for Truckee_27:

(Start: 5 @25563 has 112 MA's), (6, 25569), (12, 25614), (16, 25668), (33, 25749), (45, 25830), (46, 25833), (67, 25956), (80, 26034), (86, 26064), (87, 26076), (90, 26094), (99, 26142), (110, 26220), (113, 26247), (119, 26283), (121, 26304), (136, 26367), (143, 26418), (144, 26421), (149, 26460), (154, 26508), (158, 26541), (162, 26571), (169, 26637),

Gene: Trustiboi_29 Start: 26085, Stop: 27248, Start Num: 4

Candidate Starts for Trustiboi_29:

(Start: 4 @26085 has 9 MA's), (Start: 5 @26088 has 112 MA's), (6, 26094), (12, 26139), (24, 26226), (25, 26229), (33, 26274), (43, 26346), (55, 26394), (67, 26481), (74, 26523), (84, 26580), (90, 26619), (110, 26745), (113, 26772), (119, 26808), (143, 26943), (149, 26985), (158, 27066), (162, 27096), (169, 27162),

Gene: Uzumaki_28 Start: 25279, Stop: 26442, Start Num: 5

Candidate Starts for Uzumaki_28:

(Start: 5 @25279 has 112 MA's), (16, 25384), (18, 25390), (33, 25465), (35, 25471), (40, 25510), (68, 25675), (71, 25696), (91, 25816), (131, 26050), (134, 26074), (135, 26077), (158, 26254), (162, 26284),

Gene: Westerlin_29 Start: 27200, Stop: 28360, Start Num: 5

Candidate Starts for Westerlin_29:

(Start: 4 @27197 has 9 MA's), (Start: 5 @27200 has 112 MA's), (6, 27206), (24, 27338), (25, 27341), (33, 27386), (45, 27467), (55, 27506), (66, 27590), (74, 27635), (84, 27692), (90, 27731), (110, 27857), (113, 27884), (117, 27911), (119, 27920), (143, 28055), (149, 28097), (151, 28106), (154, 28145), (158, 28178), (162, 28208), (164, 28232), (169, 28274),

Gene: Wigberry_26 Start: 21869, Stop: 23041, Start Num: 5

Candidate Starts for Wigberry_26:

(Start: 4 @21866 has 9 MA's), (Start: 5 @21869 has 112 MA's), (23, 22004), (31, 22034), (33, 22055), (40, 22103), (70, 22277), (75, 22307), (77, 22325), (82, 22349), (93, 22421), (111, 22535), (122, 22613), (141, 22709), (158, 22844), (162, 22874), (163, 22880), (164, 22898), (173, 22979),

Gene: Xenomorph_22 Start: 22733, Stop: 23794, Start Num: 2

Candidate Starts for Xenomorph_22:

(Start: 2 @22733 has 20 MA's), (6, 22754), (7, 22763), (10, 22790), (33, 22934), (45, 23012), (63, 23084), (78, 23168), (87, 23219), (110, 23348), (111, 23357), (113, 23375), (147, 23576),

Gene: YoshiYama_23 Start: 22770, Stop: 23825, Start Num: 3

Candidate Starts for YoshiYama_23:

(Start: 2 @22764 has 20 MA's), (3, 22770), (7, 22794), (10, 22821), (33, 22965), (87, 23250), (110, 23379), (111, 23388), (113, 23406), (147, 23607), (149, 23628),

Gene: Yotsuba_28 Start: 25982, Stop: 27049, Start Num: 5

Candidate Starts for Yotsuba_28:

(Start: 5 @25982 has 112 MA's), (18, 26093), (25, 26123), (30, 26144), (33, 26168), (47, 26252), (59, 26300), (72, 26375), (73, 26381), (86, 26450), (123, 26693), (136, 26750), (142, 26804), (145, 26816), (165, 26987),

Gene: Zeina_28 Start: 24660, Stop: 25823, Start Num: 5

Candidate Starts for Zeina_28:

(Start: 5 @24660 has 112 MA's), (16, 24765), (18, 24771), (33, 24846), (35, 24852), (40, 24891), (68, 25056), (71, 25077), (91, 25197), (108, 25296), (131, 25431), (134, 25455), (135, 25458), (158, 25635), (162, 25665),

Gene: Zippen_28 Start: 25867, Stop: 27036, Start Num: 5

Candidate Starts for Zippen_28:

(Start: 4 @25864 has 9 MA's), (Start: 5 @25867 has 112 MA's), (6, 25873), (12, 25918), (25, 26008), (33, 26053), (43, 26125), (45, 26134), (55, 26173), (84, 26359), (88, 26389), (90, 26398), (110, 26524), (113, 26551), (117, 26578), (119, 26587), (142, 26719), (143, 26722), (154, 26812), (158, 26845), (162, 26875), (164, 26899), (169, 26941),