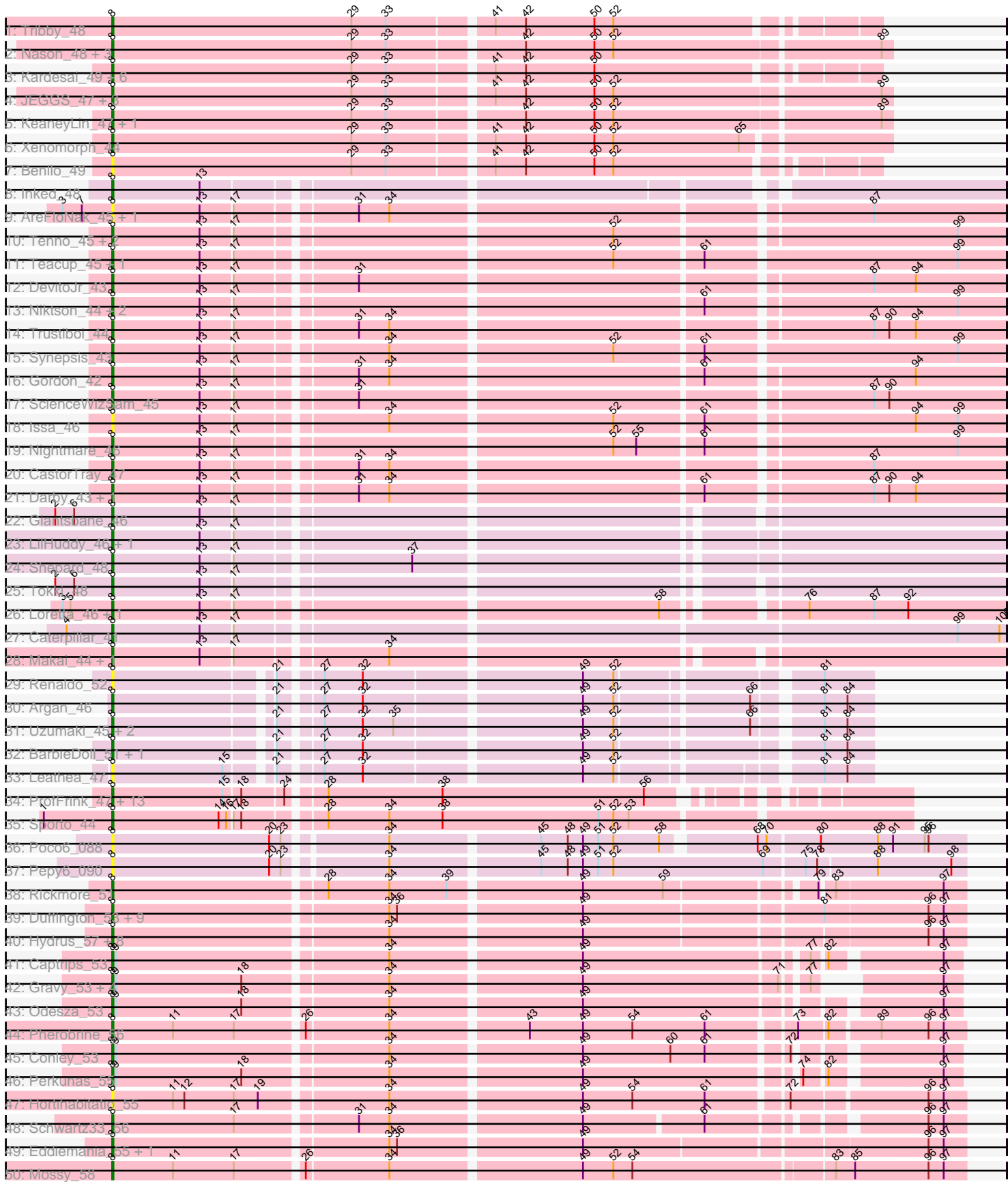
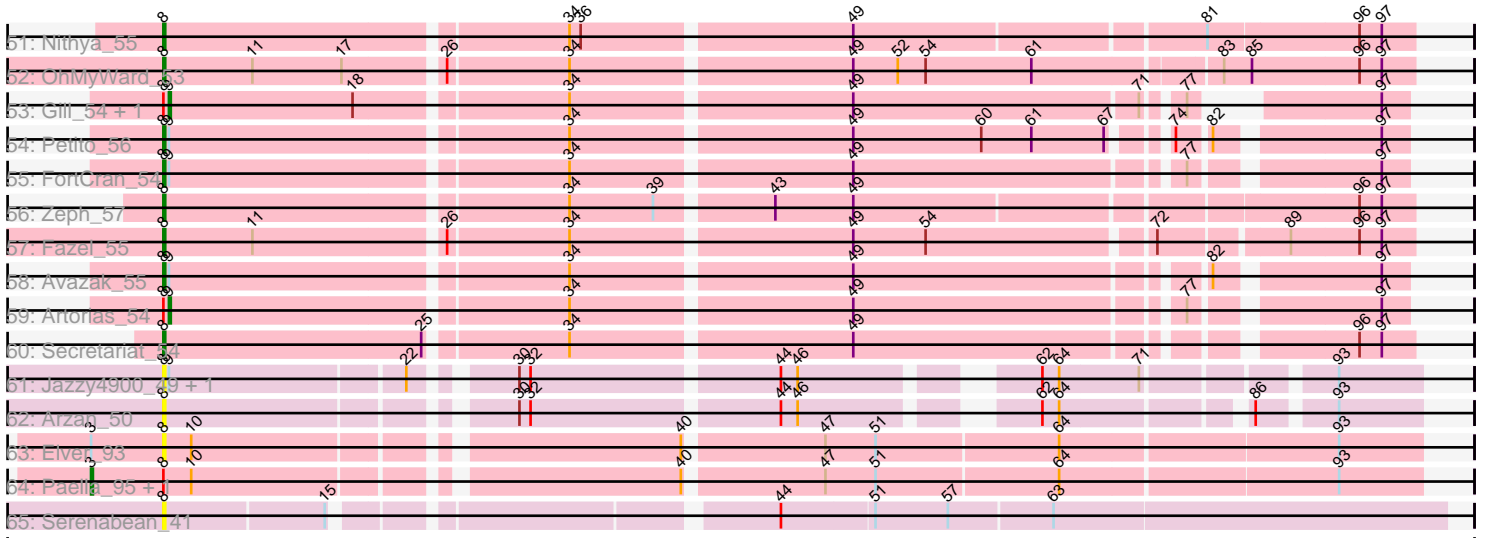


Pham 171288



Pham 171288



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 171288 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171288 has 129 members, 23 are drafts.

Phages represented in each track:

- Track 1 : Tribby_48
- Track 2 : Nason_48, Elsa_48, Arcadia_48, Circum_50
- Track 3 : Kardesai_49, NapoleonB_48, BenitoAntonio_48, Cheesy_48, Hankly_47, Mooshroom_50, Dynamite_48
- Track 4 : JEGGS_47, Correa_46, Mudcat_45, Heisenberger_47
- Track 5 : KeaneyLin_47, GoCrazy_47
- Track 6 : Xenomorph_44
- Track 7 : Benllo_49
- Track 8 : Inked_48
- Track 9 : AreFloNak_45, Nivinsha_45
- Track 10 : Tenno_45, CapnMurica_42, MiniBagel_44
- Track 11 : Teacup_45, Brunswick_45
- Track 12 : DevitoJr_43
- Track 13 : Niktson_44, ElephantMan_44, Tatanka_43
- Track 14 : Trustiboi_44
- Track 15 : Synopsis_43
- Track 16 : Gordon_42
- Track 17 : ScienceWizSam_45
- Track 18 : Issa_46
- Track 19 : Nightmare_46
- Track 20 : CastorTray_47
- Track 21 : Darby_43, Breylor17_45
- Track 22 : Giantsbane_46
- Track 23 : LilHuddy_46, Phaby_45
- Track 24 : Shepard_48
- Track 25 : Tokki_48
- Track 26 : Loretta_46, Ingrid_46
- Track 27 : Caterpillar_41
- Track 28 : Makai_44, Truckee_42
- Track 29 : Renaldo_52
- Track 30 : Argan_46
- Track 31 : Uzumaki_45, Zeina_48, GantcherGoblin_46
- Track 32 : BarbieDoll_51, Lewando_49
- Track 33 : Leathea_47
- Track 34 : ProfFrink_47, Sloopyjoe_43, Linda_43, Michelle_43, Stayer_43, Djungelskog_43, Egad_43, Raunak_46, BronxBay_43, Salk_43, StarLord_43, Shiba_42, MrAaronian_43, DoctorPepper_45

- Track 35 : Sporto_44
- Track 36 : POCO6_088
- Track 37 : PEPY6_090
- Track 38 : Rickmore_51
- Track 39 : Duffington_53, Chikenjars_53, EndAve_56, AlainaMarie_54, OlgasClover_56, BluerMoon_56, Aflac_54, Figliar_53, Jodelie19_54, TenaciousP_60
- Track 40 : Hydrus_57, Madvan_54, Burley_55, Phepper_56, Untouchable_56, Nadmeg_56, Runhaar_55, Vardy_54, Crocheter_55
- Track 41 : Captrips_53
- Track 42 : Gravy_53, Roney_54, Tanis_54, Cappybara_54, Kerry_53
- Track 43 : Odesza_53
- Track 44 : Pherobrine_56
- Track 45 : Conley_53
- Track 46 : Perkunas_55
- Track 47 : Hortihabitatio_55
- Track 48 : Schwartz33_56
- Track 49 : Eddiemania_55, Kenosha_54
- Track 50 : Mossy_58
- Track 51 : Nithya_55
- Track 52 : OhMyWard_53
- Track 53 : Gill_54, Magel_55
- Track 54 : Petite_56
- Track 55 : FortCran_54
- Track 56 : Zeph_57
- Track 57 : Fazel_55
- Track 58 : Avazak_55
- Track 59 : Artorias_54
- Track 60 : Secretariat_54
- Track 61 : Jazzy4900_49, Sunny4976_48
- Track 62 : Arzan_50
- Track 63 : Elver_93
- Track 64 : Paella_95, Qui_95
- Track 65 : Serenabean_41

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

The start number called the most often in the published annotations is 8, it was called in 101 of the 106 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_54, AlainaMarie_54, Arcadia_48, AreFloNak_45, Argan_46, Arzan_50, Avazak_55, BarbieDoll_51, BenitoAntonio_48, Benllo_49, BluerMoon_56, Breylor17_45, BronxBay_43, Brunswick_45, Burley_55, CapnMurica_42, Captrips_53, Cappybara_54, CastorTray_47, Caterpillar_41, Cheesy_48, Chikenjars_53, Circum_50, Conley_53, Correa_46, Crocheter_55, Darby_43, DevitoJr_43, Djungelskog_43, DoctorPepper_45, Duffington_53, Dynamite_48, Eddiemania_55, Egad_43, ElephantMan_44, Elsa_48, Elver_93, EndAve_56, Fazel_55, Figliar_53, FortCran_54, GantcherGoblin_46, Giantsbane_46, GoCrazy_47, Gordon_42, Gravy_53, Hankly_47, Heisenberger_47, Hortihabitatio_55, Hydrus_57, Ingrid_46, Inked_48, Issa_46, JEGGS_47, Jazzy4900_49, Jodelie19_54,

Kardesai_49, KeaneyLin_47, Kenosha_54, Kerry_53, Leathea_47, Lewando_49, LilHuddy_46, Linda_43, Loretta_46, Madvan_54, Makai_44, Michelle_43, MiniBagel_44, Mooshroom_50, Mossy_58, MrAaronian_43, Mudcat_45, Nadmeg_56, NapoleonB_48, Nason_48, Nightmare_46, Niktson_44, Nithya_55, Nivinsha_45, Odesza_53, OhMyWard_53, OlgasClover_56, Pepy6_090, Perkunas_55, Petito_56, Phaby_45, Phepper_56, Pherobrine_56, POCO6_088, ProfFrink_47, Raunak_46, Renaldo_52, Rickmore_51, Roney_54, Runhaar_55, Salk_43, Schwartz33_56, ScienceWizSam_45, Secretariat_54, Serenabean_41, Shepard_48, Shiba_42, Sloopyjoe_43, Sporto_44, StarLord_43, Stayer_43, Sunny4976_48, Synopsis_43, Tanis_54, Tatanka_43, Teacup_45, TenaciousP_60, Tenno_45, Tokki_48, Tribby_48, Truckee_42, Trustiboi_44, Untouchable_56, Uzumaki_45, Vardy_54, Xenomorph_44, Zeina_48, Zeph_57,

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

- Artorias_54, Gill_54, Magel_55, Paella_95, Qui_95,

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

-

Summary by start number:

Start 3:

- Found in 7 of 129 (5.4%) of genes in pham
- Manual Annotations of this start: 2 of 106
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Paella_95 (FK), Qui_95 (FK),

Start 8:

- Found in 129 of 129 (100.0%) of genes in pham
- Manual Annotations of this start: 101 of 106
- Called 96.1% of time when present
- Phage (with cluster) where this start called: Aflac_54 (DJ), AlainaMarie_54 (DJ), Arcadia_48 (AM), AreFloNak_45 (AU1), Argan_46 (AU6), Arzan_50 (FI), Avazak_55 (DJ), BarbieDoll_51 (AU6), BenitoAntonio_48 (AM), Benllo_49 (AM), BluerMoon_56 (DJ), Breylor17_45 (AU1), BronxBay_43 (AW), Brunswick_45 (AU1), Burley_55 (DJ), CapnMurica_42 (AU1), Captrips_53 (DJ), Copybara_54 (DJ), CastorTray_47 (AU1), Caterpillar_41 (AU4), Cheesy_48 (AM), Chikenjars_53 (DJ), Circum_50 (AM), Conley_53 (DJ), Correa_46 (AM), Crocheter_55 (DJ), Darby_43 (AU1), DevitoJr_43 (AU1), Djungelskog_43 (AW), DoctorPepper_45 (AW), Duffington_53 (DJ), Dynamite_48 (AM), Eddiemania_55 (DJ), Egad_43 (AW), ElephantMan_44 (AU1), Elsa_48 (AM), Elver_93 (FK), EndAve_56 (DJ), Fazel_55 (DJ), Figliar_53 (DJ), FortCran_54 (DJ), GantcherGoblin_46 (AU6), Giantsbane_46 (AU2), GoCrazy_47 (AM), Gordon_42 (AU1), Gravy_53 (DJ), Hankly_47 (AM), Heisenberger_47 (AM), Hortihabitatio_55 (DJ), Hydrus_57 (DJ), Ingrid_46 (AU3), Inked_48 (AU), Issa_46 (AU1), JEGGS_47 (AM), Jazzy4900_49 (FI), Jodelie19_54 (DJ), Kardesai_49 (AM), KeaneyLin_47 (AM), Kenosha_54 (DJ), Kerry_53 (DJ), Leathea_47 (AU6), Lewando_49 (AU6), LilHuddy_46 (AU2), Linda_43 (AW), Loretta_46 (AU3), Madvan_54 (DJ), Makai_44 (AU5), Michelle_43 (AW), MiniBagel_44 (AU1), Mooshroom_50 (AM), Mossy_58 (DJ), MrAaronian_43 (AW), Mudcat_45 (AM), Nadmeg_56 (DJ), NapoleonB_48 (AM), Nason_48 (AM), Nightmare_46 (AU1), Niktson_44 (AU1), Nithya_55 (DJ), Nivinsha_45 (AU1), Odesza_53 (DJ), OhMyWard_53 (DJ), OlgasClover_56 (DJ), Pepy6_090 (CC), Perkunas_55 (DJ), Petito_56 (DJ), Phaby_45 (AU2), Phepper_56 (DJ), Pherobrine_56 (DJ), POCO6_088

(CC), ProfFrink_47 (AW), Raunak_46 (AW), Renaldo_52 (AU6), Rickmore_51 (DJ), Roney_54 (DJ), Runhaar_55 (DJ), Salk_43 (AW), Schwartz33_56 (DJ), ScienceWizSam_45 (AU1), Secretariat_54 (DJ), Serenabean_41 (HA), Shepard_48 (AU2), Shiba_42 (AW), Sloopyjoe_43 (AW), Sporto_44 (AW), StarLord_43 (AW), Stayer_43 (AW), Sunny4976_48 (FI), Synopsis_43 (AU1), Tanis_54 (DJ), Tatanka_43 (AU1), Teacup_45 (AU1), TenaciousP_60 (DJ), Tenno_45 (AU1), Tokki_48 (AU2), Tribby_48 (AM), Truckee_42 (AU5), Trustiboi_44 (AU1), Untouchable_56 (DJ), Uzumaki_45 (AU6), Vardy_54 (DJ), Xenomorph_44 (AM), Zeina_48 (AU6), Zeph_57 (DJ),

Start 9:

- Found in 17 of 129 (13.2%) of genes in pham
- Manual Annotations of this start: 3 of 106
- Called 17.6% of time when present
- Phage (with cluster) where this start called: Artorias_54 (DJ), Gill_54 (DJ), Magel_55 (DJ),

Summary by clusters:

There are 14 clusters represented in this pham: HA, DJ, CC, AM, AU1, AU3, AU2, AU5, AU4, AW, AU6, FI, FK, AU,

Info for manual annotations of cluster AM:

- Start number 8 was manually annotated 19 times for cluster AM.

Info for manual annotations of cluster AU:

- Start number 8 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 8 was manually annotated 17 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 8 was manually annotated 4 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 8 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 8 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 8 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 8 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster AW:

- Start number 8 was manually annotated 12 times for cluster AW.

Info for manual annotations of cluster DJ:

- Start number 8 was manually annotated 38 times for cluster DJ.
- Start number 9 was manually annotated 3 times for cluster DJ.

Info for manual annotations of cluster FK:

•Start number 3 was manually annotated 2 times for cluster FK.

Gene Information:

Gene: Aflac_54 Start: 37624, Stop: 38262, Start Num: 8

Candidate Starts for Aflac_54:

(Start: 8 @37624 has 101 MA's), (34, 37831), (36, 37837), (49, 37975), (81, 38155), (96, 38233), (97, 38245),

Gene: AlainaMarie_54 Start: 37610, Stop: 38248, Start Num: 8

Candidate Starts for AlainaMarie_54:

(Start: 8 @37610 has 101 MA's), (34, 37817), (36, 37823), (49, 37961), (81, 38141), (96, 38219), (97, 38231),

Gene: Arcadia_48 Start: 31859, Stop: 32455, Start Num: 8

Candidate Starts for Arcadia_48:

(Start: 8 @31859 has 101 MA's), (29, 32048), (33, 32075), (42, 32174), (50, 32228), (52, 32243), (89, 32447),

Gene: AreFloNak_45 Start: 33292, Stop: 33951, Start Num: 8

Candidate Starts for AreFloNak_45:

(Start: 3 @33253 has 2 MA's), (7, 33268), (Start: 8 @33292 has 101 MA's), (13, 33361), (17, 33385), (31, 33469), (34, 33493), (87, 33847),

Gene: Argan_46 Start: 32018, Stop: 32551, Start Num: 8

Candidate Starts for Argan_46:

(Start: 8 @32018 has 101 MA's), (21, 32132), (27, 32159), (32, 32189), (49, 32351), (52, 32375), (66, 32471), (81, 32513), (84, 32531),

Gene: Artorias_54 Start: 36960, Stop: 37574, Start Num: 9

Candidate Starts for Artorias_54:

(Start: 8 @36957 has 101 MA's), (Start: 9 @36960 has 3 MA's), (34, 37164), (49, 37308), (77, 37473), (97, 37560),

Gene: Arzan_50 Start: 33168, Stop: 33752, Start Num: 8

Candidate Starts for Arzan_50:

(Start: 8 @33168 has 101 MA's), (30, 33333), (32, 33339), (44, 33465), (46, 33474), (62, 33576), (64, 33585), (86, 33672), (93, 33708),

Gene: Avazak_55 Start: 37284, Stop: 37901, Start Num: 8

Candidate Starts for Avazak_55:

(Start: 8 @37284 has 101 MA's), (Start: 9 @37287 has 3 MA's), (34, 37491), (49, 37635), (82, 37809), (97, 37887),

Gene: BarbieDoll_51 Start: 33705, Stop: 34238, Start Num: 8

Candidate Starts for BarbieDoll_51:

(Start: 8 @33705 has 101 MA's), (21, 33819), (27, 33846), (32, 33876), (49, 34038), (52, 34062), (81, 34200), (84, 34218),

Gene: BenitoAntonio_48 Start: 31423, Stop: 31992, Start Num: 8

Candidate Starts for BenitoAntonio_48:

(Start: 8 @31423 has 101 MA's), (29, 31612), (33, 31639), (41, 31714), (42, 31738), (50, 31792),

Gene: Benllo_49 Start: 32107, Stop: 32676, Start Num: 8

Candidate Starts for Benllo_49:

(Start: 8 @32107 has 101 MA's), (29, 32296), (33, 32323), (41, 32398), (42, 32422), (50, 32476), (52, 32491),

Gene: BluerMoon_56 Start: 37653, Stop: 38291, Start Num: 8

Candidate Starts for BluerMoon_56:

(Start: 8 @37653 has 101 MA's), (34, 37860), (36, 37866), (49, 38004), (81, 38184), (96, 38262), (97, 38274),

Gene: Breylor17_45 Start: 34090, Stop: 34749, Start Num: 8

Candidate Starts for Breylor17_45:

(Start: 8 @34090 has 101 MA's), (13, 34159), (17, 34183), (31, 34267), (34, 34291), (61, 34525), (87, 34645), (90, 34657), (94, 34678),

Gene: BronxBay_43 Start: 30995, Stop: 31555, Start Num: 8

Candidate Starts for BronxBay_43:

(Start: 8 @30995 has 101 MA's), (15, 31082), (18, 31094), (24, 31124), (28, 31148), (38, 31238), (56, 31397),

Gene: Brunswick_45 Start: 33172, Stop: 33831, Start Num: 8

Candidate Starts for Brunswick_45:

(Start: 8 @33172 has 101 MA's), (13, 33241), (17, 33265), (52, 33541), (61, 33607), (99, 33793),

Gene: Burley_55 Start: 37396, Stop: 38031, Start Num: 8

Candidate Starts for Burley_55:

(Start: 8 @37396 has 101 MA's), (34, 37603), (49, 37747), (96, 38002), (97, 38014),

Gene: CapnMurica_42 Start: 34070, Stop: 34729, Start Num: 8

Candidate Starts for CapnMurica_42:

(Start: 8 @34070 has 101 MA's), (13, 34139), (17, 34163), (52, 34439), (99, 34691),

Gene: Captrips_53 Start: 36432, Stop: 37049, Start Num: 8

Candidate Starts for Captrips_53:

(Start: 8 @36432 has 101 MA's), (Start: 9 @36435 has 3 MA's), (34, 36639), (49, 36783), (77, 36948), (82, 36957), (97, 37035),

Gene: Capybara_54 Start: 36783, Stop: 37382, Start Num: 8

Candidate Starts for Capybara_54:

(Start: 8 @36783 has 101 MA's), (Start: 9 @36786 has 3 MA's), (18, 36885), (34, 36990), (49, 37134), (71, 37284), (77, 37299), (97, 37368),

Gene: CastorTray_47 Start: 33900, Stop: 34559, Start Num: 8

Candidate Starts for CastorTray_47:

(Start: 8 @33900 has 101 MA's), (13, 33969), (17, 33993), (31, 34077), (34, 34101), (87, 34455),

Gene: Caterpillar_41 Start: 32360, Stop: 33028, Start Num: 8

Candidate Starts for Caterpillar_41:

(4, 32324), (Start: 8 @32360 has 101 MA's), (13, 32429), (17, 32453), (99, 32990), (100, 33023),

Gene: Cheesy_48 Start: 31608, Stop: 32177, Start Num: 8

Candidate Starts for Cheesy_48:

(Start: 8 @31608 has 101 MA's), (29, 31797), (33, 31824), (41, 31899), (42, 31923), (50, 31977),

Gene: Chikenjars_53 Start: 37622, Stop: 38260, Start Num: 8

Candidate Starts for Chikenjars_53:

(Start: 8 @37622 has 101 MA's), (34, 37829), (36, 37835), (49, 37973), (81, 38153), (96, 38231), (97, 38243),

Gene: Circum_50 Start: 32270, Stop: 32866, Start Num: 8

Candidate Starts for Circum_50:

(Start: 8 @32270 has 101 MA's), (29, 32459), (33, 32486), (42, 32585), (50, 32639), (52, 32654), (89, 32858),

Gene: Conley_53 Start: 37570, Stop: 38184, Start Num: 8

Candidate Starts for Conley_53:

(Start: 8 @37570 has 101 MA's), (Start: 9 @37573 has 3 MA's), (34, 37777), (49, 37921), (60, 37990), (61, 38017), (72, 38074), (97, 38170),

Gene: Correa_46 Start: 30727, Stop: 31323, Start Num: 8

Candidate Starts for Correa_46:

(Start: 8 @30727 has 101 MA's), (29, 30916), (33, 30943), (41, 31018), (42, 31042), (50, 31096), (52, 31111), (89, 31315),

Gene: Crocheter_55 Start: 37792, Stop: 38427, Start Num: 8

Candidate Starts for Crocheter_55:

(Start: 8 @37792 has 101 MA's), (34, 37999), (49, 38143), (96, 38398), (97, 38410),

Gene: Darby_43 Start: 33072, Stop: 33731, Start Num: 8

Candidate Starts for Darby_43:

(Start: 8 @33072 has 101 MA's), (13, 33141), (17, 33165), (31, 33249), (34, 33273), (61, 33507), (87, 33627), (90, 33639), (94, 33660),

Gene: DevitoJr_43 Start: 33260, Stop: 33919, Start Num: 8

Candidate Starts for DevitoJr_43:

(Start: 8 @33260 has 101 MA's), (13, 33329), (17, 33353), (31, 33437), (87, 33815), (94, 33848),

Gene: Djungelskog_43 Start: 30994, Stop: 31554, Start Num: 8

Candidate Starts for Djungelskog_43:

(Start: 8 @30994 has 101 MA's), (15, 31081), (18, 31093), (24, 31123), (28, 31147), (38, 31237), (56, 31396),

Gene: DoctorPepper_45 Start: 30699, Stop: 31259, Start Num: 8

Candidate Starts for DoctorPepper_45:

(Start: 8 @30699 has 101 MA's), (15, 30786), (18, 30798), (24, 30828), (28, 30852), (38, 30942), (56, 31101),

Gene: Duffington_53 Start: 37317, Stop: 37955, Start Num: 8

Candidate Starts for Duffington_53:

(Start: 8 @37317 has 101 MA's), (34, 37524), (36, 37530), (49, 37668), (81, 37848), (96, 37926), (97, 37938),

Gene: Dynamite_48 Start: 31823, Stop: 32392, Start Num: 8

Candidate Starts for Dynamite_48:

(Start: 8 @31823 has 101 MA's), (29, 32012), (33, 32039), (41, 32114), (42, 32138), (50, 32192),

Gene: Eddiemania_55 Start: 38537, Stop: 39172, Start Num: 8

Candidate Starts for Eddiemania_55:

(Start: 8 @38537 has 101 MA's), (34, 38744), (36, 38750), (49, 38888), (96, 39143), (97, 39155),

Gene: Egad_43 Start: 30996, Stop: 31556, Start Num: 8

Candidate Starts for Egad_43:

(Start: 8 @30996 has 101 MA's), (15, 31083), (18, 31095), (24, 31125), (28, 31149), (38, 31239), (56, 31398),

Gene: ElephantMan_44 Start: 33745, Stop: 34404, Start Num: 8

Candidate Starts for ElephantMan_44:

(Start: 8 @33745 has 101 MA's), (13, 33814), (17, 33838), (61, 34180), (99, 34366),

Gene: Elsa_48 Start: 31859, Stop: 32455, Start Num: 8

Candidate Starts for Elsa_48:

(Start: 8 @31859 has 101 MA's), (29, 32048), (33, 32075), (42, 32174), (50, 32228), (52, 32243), (89, 32447),

Gene: Elver_93 Start: 52898, Stop: 53530, Start Num: 8

Candidate Starts for Elver_93:

(Start: 3 @52859 has 2 MA's), (Start: 8 @52898 has 101 MA's), (10, 52913), (40, 53150), (47, 53219), (51, 53246), (64, 53342), (93, 53486),

Gene: EndAve_56 Start: 37790, Stop: 38428, Start Num: 8

Candidate Starts for EndAve_56:

(Start: 8 @37790 has 101 MA's), (34, 37997), (36, 38003), (49, 38141), (81, 38321), (96, 38399), (97, 38411),

Gene: Fazel_55 Start: 37262, Stop: 37894, Start Num: 8

Candidate Starts for Fazel_55:

(Start: 8 @37262 has 101 MA's), (11, 37310), (26, 37406), (34, 37469), (49, 37613), (54, 37652), (72, 37766), (89, 37829), (96, 37865), (97, 37877),

Gene: Figliar_53 Start: 37692, Stop: 38330, Start Num: 8

Candidate Starts for Figliar_53:

(Start: 8 @37692 has 101 MA's), (34, 37899), (36, 37905), (49, 38043), (81, 38223), (96, 38301), (97, 38313),

Gene: FortCran_54 Start: 36957, Stop: 37574, Start Num: 8

Candidate Starts for FortCran_54:

(Start: 8 @36957 has 101 MA's), (Start: 9 @36960 has 3 MA's), (34, 37164), (49, 37308), (77, 37473), (97, 37560),

Gene: GantcherGoblin_46 Start: 32217, Stop: 32750, Start Num: 8

Candidate Starts for GantcherGoblin_46:

(Start: 8 @32217 has 101 MA's), (21, 32331), (27, 32358), (32, 32388), (35, 32412), (49, 32550), (52, 32574), (66, 32670), (81, 32712), (84, 32730),

Gene: Giantsbane_46 Start: 32465, Stop: 33115, Start Num: 8

Candidate Starts for Giantsbane_46:

(2, 32420), (6, 32435), (Start: 8 @32465 has 101 MA's), (13, 32534), (17, 32558),

Gene: Gill_54 Start: 36803, Stop: 37399, Start Num: 9

Candidate Starts for Gill_54:

(Start: 8 @36800 has 101 MA's), (Start: 9 @36803 has 3 MA's), (18, 36902), (34, 37007), (49, 37151), (71, 37301), (77, 37316), (97, 37385),

Gene: GoCrazy_47 Start: 31735, Stop: 32331, Start Num: 8

Candidate Starts for GoCrazy_47:

(Start: 8 @31735 has 101 MA's), (29, 31924), (33, 31951), (42, 32050), (50, 32104), (52, 32119), (89, 32323),

Gene: Gordon_42 Start: 33925, Stop: 34584, Start Num: 8

Candidate Starts for Gordon_42:

(Start: 8 @33925 has 101 MA's), (13, 33994), (17, 34018), (31, 34102), (34, 34126), (61, 34360), (94, 34513),

Gene: Gravy_53 Start: 36473, Stop: 37072, Start Num: 8

Candidate Starts for Gravy_53:

(Start: 8 @36473 has 101 MA's), (Start: 9 @36476 has 3 MA's), (18, 36575), (34, 36680), (49, 36824), (71, 36974), (77, 36989), (97, 37058),

Gene: Hankly_47 Start: 31036, Stop: 31605, Start Num: 8

Candidate Starts for Hankly_47:

(Start: 8 @31036 has 101 MA's), (29, 31225), (33, 31252), (41, 31327), (42, 31351), (50, 31405),

Gene: Heisenberger_47 Start: 31299, Stop: 31895, Start Num: 8

Candidate Starts for Heisenberger_47:

(Start: 8 @31299 has 101 MA's), (29, 31488), (33, 31515), (41, 31590), (42, 31614), (50, 31668), (52, 31683), (89, 31887),

Gene: Hortihabitatio_55 Start: 37498, Stop: 38130, Start Num: 8

Candidate Starts for Hortihabitatio_55:

(Start: 8 @37498 has 101 MA's), (11, 37546), (12, 37555), (17, 37594), (19, 37612), (34, 37705), (49, 37849), (54, 37888), (61, 37945), (72, 38002), (96, 38101), (97, 38113),

Gene: Hydrus_57 Start: 38564, Stop: 39199, Start Num: 8

Candidate Starts for Hydrus_57:

(Start: 8 @38564 has 101 MA's), (34, 38771), (49, 38915), (96, 39170), (97, 39182),

Gene: Ingrid_46 Start: 33203, Stop: 33853, Start Num: 8

Candidate Starts for Ingrid_46:

(Start: 3 @33164 has 2 MA's), (5, 33170), (Start: 8 @33203 has 101 MA's), (13, 33272), (17, 33296), (58, 33608), (76, 33698), (87, 33749), (92, 33776),

Gene: Inked_48 Start: 34345, Stop: 34989, Start Num: 8

Candidate Starts for Inked_48:

(Start: 8 @34345 has 101 MA's), (13, 34414),

Gene: Issa_46 Start: 33364, Stop: 34023, Start Num: 8

Candidate Starts for Issa_46:

(Start: 8 @33364 has 101 MA's), (13, 33433), (17, 33457), (34, 33565), (52, 33733), (61, 33799), (94, 33952), (99, 33985),

Gene: JEGGS_47 Start: 31353, Stop: 31949, Start Num: 8

Candidate Starts for JEGGS_47:

(Start: 8 @31353 has 101 MA's), (29, 31542), (33, 31569), (41, 31644), (42, 31668), (50, 31722), (52, 31737), (89, 31941),

Gene: Jazzy4900_49 Start: 33968, Stop: 34558, Start Num: 8

Candidate Starts for Jazzy4900_49:

(Start: 8 @33968 has 101 MA's), (Start: 9 @33971 has 3 MA's), (22, 34091), (30, 34133), (32, 34139), (44, 34265), (46, 34274), (62, 34376), (64, 34385), (71, 34427), (93, 34514),

Gene: Jodelie19_54 Start: 39096, Stop: 39734, Start Num: 8

Candidate Starts for Jodelie19_54:

(Start: 8 @39096 has 101 MA's), (34, 39303), (36, 39309), (49, 39447), (81, 39627), (96, 39705), (97, 39717),

Gene: Kardesai_49 Start: 32007, Stop: 32576, Start Num: 8

Candidate Starts for Kardesai_49:

(Start: 8 @32007 has 101 MA's), (29, 32196), (33, 32223), (41, 32298), (42, 32322), (50, 32376),

Gene: KeaneyLin_47 Start: 31735, Stop: 32331, Start Num: 8

Candidate Starts for KeaneyLin_47:

(Start: 8 @31735 has 101 MA's), (29, 31924), (33, 31951), (42, 32050), (50, 32104), (52, 32119), (89, 32323),

Gene: Kenosha_54 Start: 38023, Stop: 38658, Start Num: 8

Candidate Starts for Kenosha_54:

(Start: 8 @38023 has 101 MA's), (34, 38230), (36, 38236), (49, 38374), (96, 38629), (97, 38641),

Gene: Kerry_53 Start: 36473, Stop: 37072, Start Num: 8

Candidate Starts for Kerry_53:

(Start: 8 @36473 has 101 MA's), (Start: 9 @36476 has 3 MA's), (18, 36575), (34, 36680), (49, 36824), (71, 36974), (77, 36989), (97, 37058),

Gene: Leathea_47 Start: 31879, Stop: 32409, Start Num: 8

Candidate Starts for Leathea_47:

(Start: 8 @31879 has 101 MA's), (15, 31966), (21, 31993), (27, 32020), (32, 32050), (49, 32212), (52, 32236), (81, 32371), (84, 32389),

Gene: Lewando_49 Start: 33491, Stop: 34024, Start Num: 8

Candidate Starts for Lewando_49:

(Start: 8 @33491 has 101 MA's), (21, 33605), (27, 33632), (32, 33662), (49, 33824), (52, 33848), (81, 33986), (84, 34004),

Gene: LilHuddy_46 Start: 33411, Stop: 34067, Start Num: 8

Candidate Starts for LilHuddy_46:

(Start: 8 @33411 has 101 MA's), (13, 33480), (17, 33504),

Gene: Linda_43 Start: 30992, Stop: 31552, Start Num: 8
Candidate Starts for Linda_43:
(Start: 8 @30992 has 101 MA's), (15, 31079), (18, 31091), (24, 31121), (28, 31145), (38, 31235), (56, 31394),

Gene: Loretta_46 Start: 33203, Stop: 33853, Start Num: 8
Candidate Starts for Loretta_46:
(Start: 3 @33164 has 2 MA's), (5, 33170), (Start: 8 @33203 has 101 MA's), (13, 33272), (17, 33296), (58, 33608), (76, 33698), (87, 33749), (92, 33776),

Gene: Madvan_54 Start: 37433, Stop: 38068, Start Num: 8
Candidate Starts for Madvan_54:
(Start: 8 @37433 has 101 MA's), (34, 37640), (49, 37784), (96, 38039), (97, 38051),

Gene: Magel_55 Start: 36719, Stop: 37315, Start Num: 9
Candidate Starts for Magel_55:
(Start: 8 @36716 has 101 MA's), (Start: 9 @36719 has 3 MA's), (18, 36818), (34, 36923), (49, 37067), (71, 37217), (77, 37232), (97, 37301),

Gene: Makai_44 Start: 33397, Stop: 34047, Start Num: 8
Candidate Starts for Makai_44:
(Start: 8 @33397 has 101 MA's), (13, 33466), (17, 33490), (34, 33598),

Gene: Michelle_43 Start: 30994, Stop: 31554, Start Num: 8
Candidate Starts for Michelle_43:
(Start: 8 @30994 has 101 MA's), (15, 31081), (18, 31093), (24, 31123), (28, 31147), (38, 31237), (56, 31396),

Gene: MiniBagel_44 Start: 34052, Stop: 34711, Start Num: 8
Candidate Starts for MiniBagel_44:
(Start: 8 @34052 has 101 MA's), (13, 34121), (17, 34145), (52, 34421), (99, 34673),

Gene: Mooshroom_50 Start: 32007, Stop: 32576, Start Num: 8
Candidate Starts for Mooshroom_50:
(Start: 8 @32007 has 101 MA's), (29, 32196), (33, 32223), (41, 32298), (42, 32322), (50, 32376),

Gene: Mossy_58 Start: 39452, Stop: 40093, Start Num: 8
Candidate Starts for Mossy_58:
(Start: 8 @39452 has 101 MA's), (11, 39500), (17, 39548), (26, 39596), (34, 39659), (49, 39803), (52, 39827), (54, 39842), (83, 39992), (85, 40007), (96, 40064), (97, 40076),

Gene: MrAaronian_43 Start: 30994, Stop: 31554, Start Num: 8
Candidate Starts for MrAaronian_43:
(Start: 8 @30994 has 101 MA's), (15, 31081), (18, 31093), (24, 31123), (28, 31147), (38, 31237), (56, 31396),

Gene: Mudcat_45 Start: 32712, Stop: 33308, Start Num: 8
Candidate Starts for Mudcat_45:
(Start: 8 @32712 has 101 MA's), (29, 32901), (33, 32928), (41, 33003), (42, 33027), (50, 33081), (52, 33096), (89, 33300),

Gene: Nadmeg_56 Start: 38679, Stop: 39314, Start Num: 8
Candidate Starts for Nadmeg_56:

(Start: 8 @38679 has 101 MA's), (34, 38886), (49, 39030), (96, 39285), (97, 39297),

Gene: NapoleonB_48 Start: 31823, Stop: 32392, Start Num: 8

Candidate Starts for NapoleonB_48:

(Start: 8 @31823 has 101 MA's), (29, 32012), (33, 32039), (41, 32114), (42, 32138), (50, 32192),

Gene: Nason_48 Start: 31859, Stop: 32455, Start Num: 8

Candidate Starts for Nason_48:

(Start: 8 @31859 has 101 MA's), (29, 32048), (33, 32075), (42, 32174), (50, 32228), (52, 32243), (89, 32447),

Gene: Nightmare_46 Start: 34312, Stop: 34971, Start Num: 8

Candidate Starts for Nightmare_46:

(Start: 8 @34312 has 101 MA's), (13, 34381), (17, 34405), (52, 34681), (55, 34699), (61, 34747), (99, 34933),

Gene: Niktson_44 Start: 33745, Stop: 34404, Start Num: 8

Candidate Starts for Niktson_44:

(Start: 8 @33745 has 101 MA's), (13, 33814), (17, 33838), (61, 34180), (99, 34366),

Gene: Nithya_55 Start: 37534, Stop: 38172, Start Num: 8

Candidate Starts for Nithya_55:

(Start: 8 @37534 has 101 MA's), (34, 37741), (36, 37747), (49, 37885), (81, 38065), (96, 38143), (97, 38155),

Gene: Nivinsha_45 Start: 33292, Stop: 33951, Start Num: 8

Candidate Starts for Nivinsha_45:

(Start: 3 @33253 has 2 MA's), (7, 33268), (Start: 8 @33292 has 101 MA's), (13, 33361), (17, 33385), (31, 33469), (34, 33493), (87, 33847),

Gene: Odesza_53 Start: 36528, Stop: 37145, Start Num: 8

Candidate Starts for Odesza_53:

(Start: 8 @36528 has 101 MA's), (Start: 9 @36531 has 3 MA's), (18, 36630), (34, 36735), (49, 36879), (97, 37131),

Gene: OhMyWard_53 Start: 38645, Stop: 39286, Start Num: 8

Candidate Starts for OhMyWard_53:

(Start: 8 @38645 has 101 MA's), (11, 38693), (17, 38741), (26, 38789), (34, 38852), (49, 38996), (52, 39020), (54, 39035), (61, 39092), (83, 39185), (85, 39200), (96, 39257), (97, 39269),

Gene: OlgasClover_56 Start: 38677, Stop: 39315, Start Num: 8

Candidate Starts for OlgasClover_56:

(Start: 8 @38677 has 101 MA's), (34, 38884), (36, 38890), (49, 39028), (81, 39208), (96, 39286), (97, 39298),

Gene: Paella_95 Start: 53449, Stop: 54120, Start Num: 3

Candidate Starts for Paella_95:

(Start: 3 @53449 has 2 MA's), (Start: 8 @53488 has 101 MA's), (10, 53503), (40, 53740), (47, 53809), (51, 53836), (64, 53932), (93, 54076),

Gene: Pepy6_090 Start: 47253, Stop: 47894, Start Num: 8

Candidate Starts for Pepy6_090:

(Start: 8 @47253 has 101 MA's), (20, 47376), (23, 47385), (34, 47457), (45, 47568), (48, 47589), (49, 47601), (51, 47613), (52, 47625), (69, 47742), (75, 47772), (78, 47781), (88, 47826), (98, 47883),

Gene: Perkunas_55 Start: 36810, Stop: 37424, Start Num: 8

Candidate Starts for Perkunas_55:

(Start: 8 @36810 has 101 MA's), (Start: 9 @36813 has 3 MA's), (18, 36912), (34, 37017), (49, 37161), (74, 37317), (82, 37332), (97, 37410),

Gene: Petito_56 Start: 38630, Stop: 39244, Start Num: 8

Candidate Starts for Petito_56:

(Start: 8 @38630 has 101 MA's), (Start: 9 @38633 has 3 MA's), (34, 38837), (49, 38981), (60, 39050), (61, 39077), (67, 39116), (74, 39137), (82, 39152), (97, 39230),

Gene: Phaby_45 Start: 33645, Stop: 34295, Start Num: 8

Candidate Starts for Phaby_45:

(Start: 8 @33645 has 101 MA's), (13, 33714), (17, 33738),

Gene: Phepper_56 Start: 37695, Stop: 38330, Start Num: 8

Candidate Starts for Phepper_56:

(Start: 8 @37695 has 101 MA's), (34, 37902), (49, 38046), (96, 38301), (97, 38313),

Gene: Pherobrine_56 Start: 38600, Stop: 39232, Start Num: 8

Candidate Starts for Pherobrine_56:

(Start: 8 @38600 has 101 MA's), (11, 38648), (17, 38696), (26, 38744), (34, 38807), (43, 38909), (49, 38951), (54, 38990), (61, 39047), (73, 39110), (82, 39131), (89, 39167), (96, 39203), (97, 39215),

Gene: Poco6_088 Start: 49493, Stop: 50125, Start Num: 8

Candidate Starts for Poco6_088:

(Start: 8 @49493 has 101 MA's), (20, 49616), (23, 49625), (34, 49697), (45, 49808), (48, 49829), (49, 49841), (51, 49853), (52, 49865), (58, 49901), (68, 49967), (70, 49973), (80, 50012), (88, 50057), (91, 50069), (95, 50093), (96, 50096),

Gene: ProfFrink_47 Start: 30995, Stop: 31555, Start Num: 8

Candidate Starts for ProfFrink_47:

(Start: 8 @30995 has 101 MA's), (15, 31082), (18, 31094), (24, 31124), (28, 31148), (38, 31238), (56, 31397),

Gene: Qui_95 Start: 53449, Stop: 54120, Start Num: 3

Candidate Starts for Qui_95:

(Start: 3 @53449 has 2 MA's), (Start: 8 @53488 has 101 MA's), (10, 53503), (40, 53740), (47, 53809), (51, 53836), (64, 53932), (93, 54076),

Gene: Raunak_46 Start: 30692, Stop: 31252, Start Num: 8

Candidate Starts for Raunak_46:

(Start: 8 @30692 has 101 MA's), (15, 30779), (18, 30791), (24, 30821), (28, 30845), (38, 30935), (56, 31094),

Gene: Renaldo_52 Start: 33800, Stop: 34333, Start Num: 8

Candidate Starts for Renaldo_52:

(Start: 8 @33800 has 101 MA's), (21, 33914), (27, 33941), (32, 33971), (49, 34133), (52, 34157), (81, 34295),

Gene: Rickmore_51 Start: 35485, Stop: 36111, Start Num: 8

Candidate Starts for Rickmore_51:

(Start: 8 @35485 has 101 MA's), (28, 35644), (34, 35692), (39, 35737), (49, 35836), (59, 35899), (79, 36004), (83, 36013), (97, 36094),

Gene: Roney_54 Start: 36826, Stop: 37425, Start Num: 8

Candidate Starts for Roney_54:

(Start: 8 @36826 has 101 MA's), (Start: 9 @36829 has 3 MA's), (18, 36928), (34, 37033), (49, 37177), (71, 37327), (77, 37342), (97, 37411),

Gene: Runhaar_55 Start: 37495, Stop: 38130, Start Num: 8

Candidate Starts for Runhaar_55:

(Start: 8 @37495 has 101 MA's), (34, 37702), (49, 37846), (96, 38101), (97, 38113),

Gene: Salk_43 Start: 30992, Stop: 31552, Start Num: 8

Candidate Starts for Salk_43:

(Start: 8 @30992 has 101 MA's), (15, 31079), (18, 31091), (24, 31121), (28, 31145), (38, 31235), (56, 31394),

Gene: Schwartz33_56 Start: 37627, Stop: 38241, Start Num: 8

Candidate Starts for Schwartz33_56:

(Start: 8 @37627 has 101 MA's), (17, 37723), (31, 37810), (34, 37834), (49, 37978), (61, 38068), (96, 38212), (97, 38224),

Gene: ScienceWizSam_45 Start: 33402, Stop: 34061, Start Num: 8

Candidate Starts for ScienceWizSam_45:

(Start: 8 @33402 has 101 MA's), (13, 33471), (17, 33495), (31, 33579), (87, 33957), (90, 33969),

Gene: Secretariat_54 Start: 36535, Stop: 37155, Start Num: 8

Candidate Starts for Secretariat_54:

(Start: 8 @36535 has 101 MA's), (25, 36673), (34, 36742), (49, 36886), (96, 37126), (97, 37138),

Gene: Serenabean_41 Start: 30574, Stop: 31215, Start Num: 8

Candidate Starts for Serenabean_41:

(Start: 8 @30574 has 101 MA's), (15, 30658), (44, 30865), (51, 30913), (57, 30952), (63, 31006),

Gene: Shepard_48 Start: 33483, Stop: 34139, Start Num: 8

Candidate Starts for Shepard_48:

(Start: 8 @33483 has 101 MA's), (13, 33552), (17, 33576), (37, 33702),

Gene: Shiba_42 Start: 30692, Stop: 31252, Start Num: 8

Candidate Starts for Shiba_42:

(Start: 8 @30692 has 101 MA's), (15, 30779), (18, 30791), (24, 30821), (28, 30845), (38, 30935), (56, 31094),

Gene: Sloopyjoe_43 Start: 30996, Stop: 31556, Start Num: 8

Candidate Starts for Sloopyjoe_43:

(Start: 8 @30996 has 101 MA's), (15, 31083), (18, 31095), (24, 31125), (28, 31149), (38, 31239), (56, 31398),

Gene: Sporto_44 Start: 32458, Stop: 33057, Start Num: 8

Candidate Starts for Sporto_44:

(1, 32404), (Start: 8 @32458 has 101 MA's), (14, 32542), (16, 32548), (17, 32551), (18, 32557), (28, 32611), (34, 32659), (38, 32701), (51, 32824), (52, 32836), (53, 32848),

Gene: StarLord_43 Start: 30995, Stop: 31555, Start Num: 8

Candidate Starts for StarLord_43:

(Start: 8 @30995 has 101 MA's), (15, 31082), (18, 31094), (24, 31124), (28, 31148), (38, 31238), (56, 31397),

Gene: Stayer_43 Start: 30992, Stop: 31552, Start Num: 8

Candidate Starts for Stayer_43:

(Start: 8 @30992 has 101 MA's), (15, 31079), (18, 31091), (24, 31121), (28, 31145), (38, 31235), (56, 31394),

Gene: Sunny4976_48 Start: 33968, Stop: 34558, Start Num: 8

Candidate Starts for Sunny4976_48:

(Start: 8 @33968 has 101 MA's), (Start: 9 @33971 has 3 MA's), (22, 34091), (30, 34133), (32, 34139), (44, 34265), (46, 34274), (62, 34376), (64, 34385), (71, 34427), (93, 34514),

Gene: Synopsis_43 Start: 33411, Stop: 34073, Start Num: 8

Candidate Starts for Synopsis_43:

(Start: 8 @33411 has 101 MA's), (13, 33480), (17, 33504), (34, 33612), (52, 33780), (61, 33846), (99, 34035),

Gene: Tanis_54 Start: 36646, Stop: 37245, Start Num: 8

Candidate Starts for Tanis_54:

(Start: 8 @36646 has 101 MA's), (Start: 9 @36649 has 3 MA's), (18, 36748), (34, 36853), (49, 36997), (71, 37147), (77, 37162), (97, 37231),

Gene: Tatanka_43 Start: 33581, Stop: 34243, Start Num: 8

Candidate Starts for Tatanka_43:

(Start: 8 @33581 has 101 MA's), (13, 33650), (17, 33674), (61, 34016), (99, 34205),

Gene: Teacup_45 Start: 33771, Stop: 34433, Start Num: 8

Candidate Starts for Teacup_45:

(Start: 8 @33771 has 101 MA's), (13, 33840), (17, 33864), (52, 34140), (61, 34206), (99, 34395),

Gene: TenaciousP_60 Start: 39058, Stop: 39696, Start Num: 8

Candidate Starts for TenaciousP_60:

(Start: 8 @39058 has 101 MA's), (34, 39265), (36, 39271), (49, 39409), (81, 39589), (96, 39667), (97, 39679),

Gene: Tenno_45 Start: 34060, Stop: 34719, Start Num: 8

Candidate Starts for Tenno_45:

(Start: 8 @34060 has 101 MA's), (13, 34129), (17, 34153), (52, 34429), (99, 34681),

Gene: Tokki_48 Start: 33269, Stop: 33919, Start Num: 8

Candidate Starts for Tokki_48:

(2, 33224), (6, 33239), (Start: 8 @33269 has 101 MA's), (13, 33338), (17, 33362),

Gene: Tribby_48 Start: 31560, Stop: 32129, Start Num: 8

Candidate Starts for Tribby_48:

(Start: 8 @31560 has 101 MA's), (29, 31749), (33, 31776), (41, 31851), (42, 31875), (50, 31929), (52, 31944),

Gene: Truckee_42 Start: 33185, Stop: 33835, Start Num: 8

Candidate Starts for Truckee_42:

(Start: 8 @33185 has 101 MA's), (13, 33254), (17, 33278), (34, 33386),

Gene: Trustiboi_44 Start: 33620, Stop: 34279, Start Num: 8

Candidate Starts for Trustiboi_44:

(Start: 8 @33620 has 101 MA's), (13, 33689), (17, 33713), (31, 33797), (34, 33821), (87, 34175), (90, 34187), (94, 34208),

Gene: Untouchable_56 Start: 38044, Stop: 38679, Start Num: 8

Candidate Starts for Untouchable_56:

(Start: 8 @38044 has 101 MA's), (34, 38251), (49, 38395), (96, 38650), (97, 38662),

Gene: Uzumaki_45 Start: 32211, Stop: 32744, Start Num: 8

Candidate Starts for Uzumaki_45:

(Start: 8 @32211 has 101 MA's), (21, 32325), (27, 32352), (32, 32382), (35, 32406), (49, 32544), (52, 32568), (66, 32664), (81, 32706), (84, 32724),

Gene: Vardy_54 Start: 37385, Stop: 38020, Start Num: 8

Candidate Starts for Vardy_54:

(Start: 8 @37385 has 101 MA's), (34, 37592), (49, 37736), (96, 37991), (97, 38003),

Gene: Xenomorph_44 Start: 31272, Stop: 31862, Start Num: 8

Candidate Starts for Xenomorph_44:

(Start: 8 @31272 has 101 MA's), (29, 31461), (33, 31488), (41, 31563), (42, 31587), (50, 31641), (52, 31656), (65, 31755),

Gene: Zeina_48 Start: 32530, Stop: 33063, Start Num: 8

Candidate Starts for Zeina_48:

(Start: 8 @32530 has 101 MA's), (21, 32644), (27, 32671), (32, 32701), (35, 32725), (49, 32863), (52, 32887), (66, 32983), (81, 33025), (84, 33043),

Gene: Zeph_57 Start: 38532, Stop: 39167, Start Num: 8

Candidate Starts for Zeph_57:

(Start: 8 @38532 has 101 MA's), (34, 38739), (39, 38784), (43, 38841), (49, 38883), (96, 39138), (97, 39150),