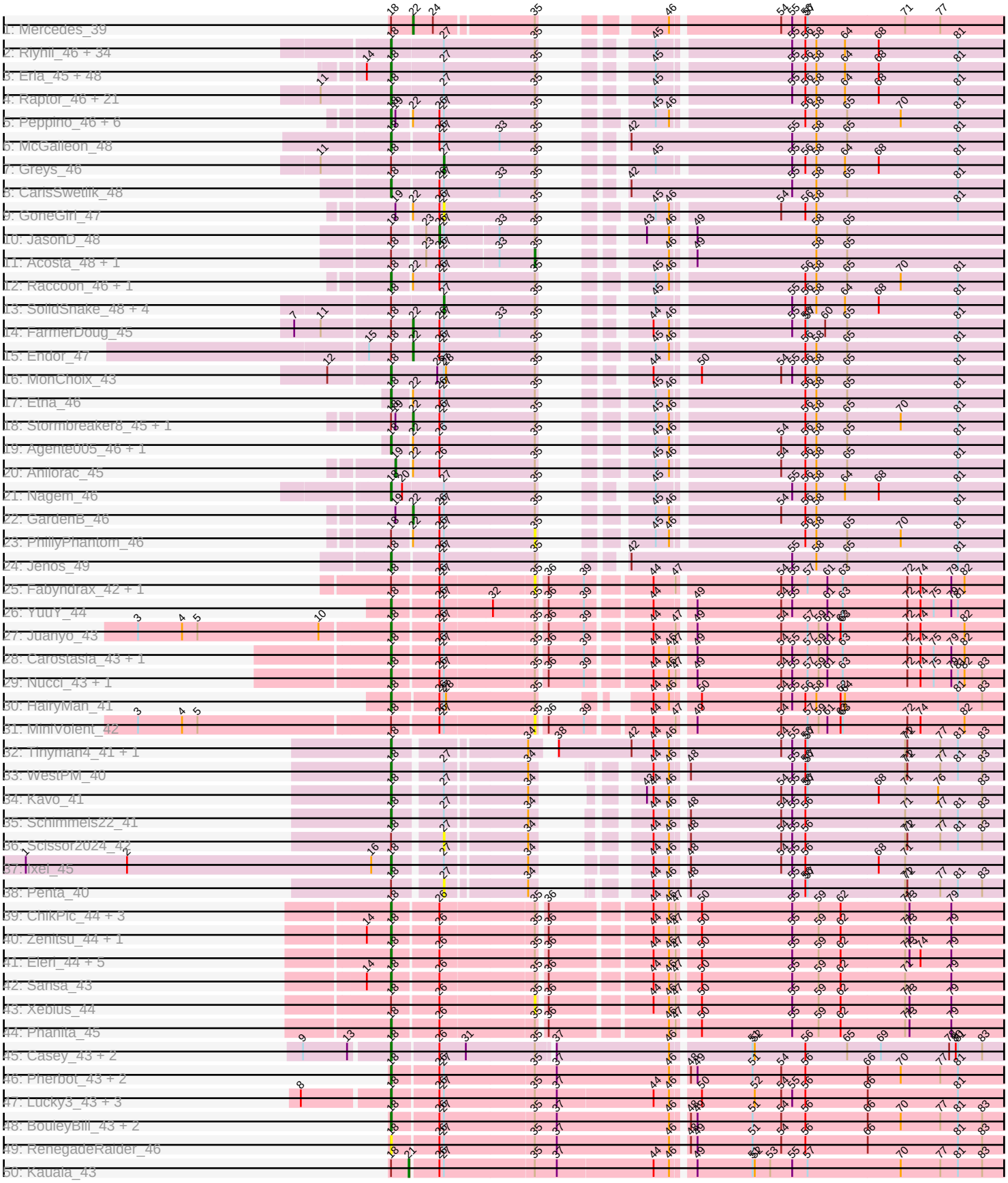
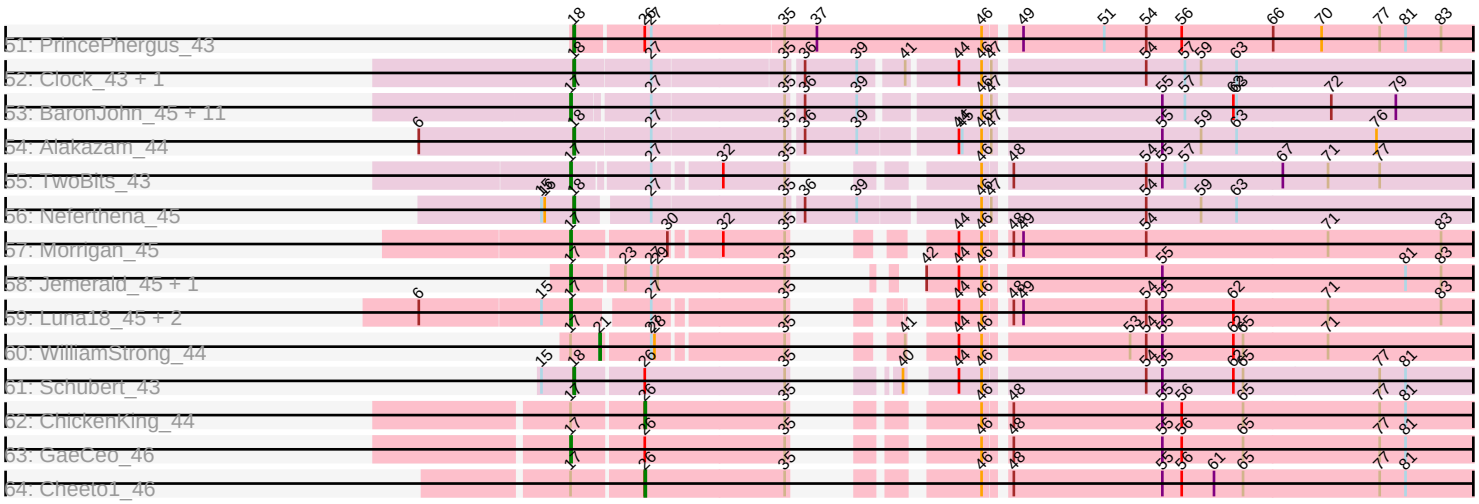
Pham 339343


1: Mercedes_39
2: Riyhll_46 + 34
3: Erla_45 + 48
4: Raptor_46 + 21
5: Peppino_46 + 6
6: McGalleon_48
7: Greys_46
8: CarisSwetlik_48
9: GoneGirl_47
10: JasonD_48
11: Acosta_48 + 1
12: Raccoon_46 + 1
13: SolidSnake_48 + 4
14: FarmerDoug_45
15: Endor_47
16: MonChoix_43
17: Etna_46
18: Stormbreaker8_45 + 1
19: Agente005_46 + 1
20: Anliorac_45
21: Nagem_46
22: GardenB_46
23: PhillyPhantom_46
24: Jenos_49
25: Fabyndrax_42 + 1
26: YuuY_44
27: Juanyo_43
28: Carostasia_43 + 1
29: Nucci_43 + 1
30: HairyMan_41
31: MiniViolent_42
32: Tinyman4_41 + 1
33: WestPM_40
34: Kavo_41
35: Schimmels22_41
36: Scissor2024_42
37: Ixel_45
38: Penta_40
39: ChikPic_44 + 3
40: Zenitsu_44 + 1
41: Eleri_44 + 5
42: Sansa_43
43: Xebius_44
44: Phanita_45
45: Casey_43 + 2
46: Pherbot_43 + 2
47: Lucky3_43 + 3
48: BouleyBill_43 + 2
49: RenegadeRaider_46
50: Kauala_43

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51: PrincePhergus_43
52: Clock_43 + 1
53: BaronJohn_45 + 11
54: Alakazam_44
55: TwoBits_43
56: Neferthena_45
57: Morrigan_45
58: Jemerald_45 + 1
59: Luna18_45 + 2
60: WilliamStrong_44
61: Schubert_43
62: ChickenKing_44
63: GaeCeo_46
64: Cheeto1_46

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 339343 Report

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

Pham number 339343 has 218 members, 16 are drafts.

Phages represented in each track:
• Track 1 : Mercedes_39
• Track 2 : Riyhil_46, Dothraki_46, NickSell_46, Martin_47, Pherferi_46, Bandik_46, Renzie_46, TatarkaPM_46, SJay_46, Ioannes_46, BeautPeep30_46, Peep_46, SoilGremlin_47, Inventa_46, Dave_46, Rapheph_46, ParleG_46, Alyxandracam_46, OldNelly_47, Stanktossa_46, Superfresh_46, MillyPhilly_46, Phireproof_46, Figueroism_46, Delphidian_46, Phiderman_46, MrWorldwide_46, Antoinette_46, AlexAdler_46, Phriends_46, Shee_46, Byron23_47, PhredFlintston_46, TinSulphur_47, MaeLinda_46
• Track 3 : Erla_45, Aubergine_45, Kouch_46, TeddyBear_45, HankSprout_46, Garey24_46, CoraRita_45, KellyGreen_47, Kale_45, Gelo_45, Jerbirus_47, ManRay_45, StirfryIV_45, Winzigespinne_45, Papafritta_45, Benjalauren_46, Duocatuli_45, Espinosa_45, Baines_45, Exploradora_45, Pocket_45, Bonino_45, Chamuel_45, Rog141_45, Asta_45, SonOfLevi_46, Nattles_45, Ilzat_45, Gershwin_45, KannH_45, JeriBeth_45, Clancy_45, Symere_45, HungryHenry_45, Calix_45, RosieMae_45, Sedgewig_45, Christoph_45, Etta_45, AranulaLuti_45, Janus167_45, StingRay_45, Oats_45, Tenda_45, HanSolo_45, Chako_45, JasperRussell_45, Gubbabump_45, Klimt_46
• Track 4 : Raptor_46, BonesMcCoy_46, Thorongil_46, Strathdee_46, Vispistious_46, Oxtober96_47, Convict_46, WildNOut_46, BigRedClifford_46, Blage_46, Knox_46, AxiPup_46, Teagan_46, Den3_46, Gargoyle_46, Thompsone_46, PuppyEggo_46, GoingMerry_46, Lovelyunicorn_46, Ludgate_46, Velene_46, ShaiHulud_46
• Track 5 : Peppino_46, KingJulien_45, Redfield_46, Hamlet_46, Balsa_45, Schnapsidee_46, Soror1_45
• Track 6 : McGalleon_48
• Track 7 : Greys_46
• Track 8 : CarisSwetlik_48
• Track 9 : GoneGirl_47
• Track 10 : JasonD_48
• Track 11 : Acosta_48, HavenFinLeoSun_48
• Track 12 : Raccoon_46, Leafus_46
• Track 13 : SolidSnake_48, Robinson_46, Kurt1_46, Merida02_48, Zada_47
• Track 14 : FarmerDoug_45
• Track 15 : Endor_47
• Track 16 : MonChoix_43
• Track 17 : Etna_46
• Track 18 : Stormbreaker8_45, BeeBee8_47
• Track 19 : Agente005_46, Aleyra_46

• Track 20 : Anilorac_45
• Track 21 : Nagem_46
• Track 22 : GardenB_46
• Track 23 : PhillyPhantom_46
• Track 24 : Jenos_49
• Track 25 : Fabyndrax_42, Cidela_42
• Track 26 : YuuY_44
• Track 27 : Juanyo_43
• Track 28 : Carostasia_43, Quartz_44
• Track 29 : Nucci_43, Mandalorian_43
• Track 30 : HairyMan_41
• Track 31 : MiniVolent_42
• Track 32 : Tinyman4_41, HerculesXL_42
• Track 33 : WestPM_40
• Track 34 : Kavo_41
• Track 35 : Schimmels22_41
• Track 36 : Scissor2024_42
• Track 37 : Ixel_45
• Track 38 : Penta_40
• Track 39 : ChikPic_44, Orpington_44, Shamu_45, Finny_45
• Track 40 : Zenitsu_44, MCubed_44
• Track 41 : Eleri_44, Glamour_44, ColaCorta_44, Andromedas_44, PSirce_44, Saratos_44
• Track 42 : Sansa_43
• Track 43 : Xebius_44
• Track 44 : Phanita_45
• Track 45 : Casey_43, Pikmin_43, Pajaza_43
• Track 46 : Pherbot_43, Bustleton_43, Sinatra_44
• Track 47 : Lucky3_43, Golden_43, Guetzie_44, SirVictor_44
• Track 48 : BouleyBill_43, Koji_43, Jingles_45
• Track 49 : RenegadeRaider_46
• Track 50 : Kauala_43
• Track 51 : PrincePhergus_43
• Track 52 : Clock_43, Nebulous_42
• Track 53 : BaronJohn_45, QuadZero_44, LilTerminator_44, Hasitha_44, CaptainRex_44, GreenIvy_43, Fulton_44, Wardwill_46, Zayuliv_44, Librie_44, Zepp_44, Vafari_44
• Track 54 : Alakazam_44
• Track 55 : TwoBits_43
• Track 56 : Neferthena_45
• Track 57 : Morrigan_45
• Track 58 : Jemerald_45, Juicer_45
• Track 59 : Luna18_45, KatChan_45, Chepli_45
• Track 60 : WilliamStrong_44
• Track 61 : Schubert_43
• Track 62 : ChickenKing_44
• Track 63 : GaeCeo_46
• Track 64 : Cheeto1_46

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

The start number called the most often in the published annotations is 18, it was called in 166 of the 202 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agente005_46, Alakazam_44, AlexAdler_46, Aleyra_46, Alyxandracam_46, Andromedas_44, Antoinette_46, AranulaLuti_45, Asta_45, Aubergine_45, AxiPup_46, Baines_45, Balsa_45, Bandik_46, BeautPeep30_46, Benjalauren_46, BigRedClifford_46, Blage_46, BonesMcCoy_46, Bonino_45, BouleyBill_43, Bustleton_43, Byron23_47, Calix_45, CarisSwetlik_48, Carostasia_43, Casey_43, Chako_45, Chamuel_45, ChikPic_44, Christoph_45, Clancy_45, Clock_43, ColaCorta_44, Convict_46, CoraRita_45, Dave_46, Delphidian_46, Den3_46, Dothraki_46, Duocatuli_45, Eleri_44, Erla_45, Espinosa_45, Etna_46, Etta_45, Exploradora_45, Figueroism_46, Finny_45, Garey24_46, Gargoyle_46, Gelo_45, Gershwin_45, Glamour_44, GoingMerry_46, Golden_43, Gubbabump_45, Guetzie_44, HairyMan_41, Hamlet_46, HanSolo_45, HankSprout_46, HerculesXL_42, HungryHenry_45, Ilzat_45, Inventa_46, Ioannes_46, Ixel_45, Janus167_45, JasperRussell_45, Jenos_49, Jerbirus_47, JeriBeth_45, Jingles_45, Juanyo_43, Kale_45, KannH_45, Kavo_41, KellyGreen_47, KingJulien_45, Klimt_46, Knox_46, Koji_43, Kouch_46, Leafus_46, Lovelyunicorn_46, Lucky3_43, Ludgate_46, MCubed_44, MaeLinda_46, ManRay_45, Mandalorian_43, Martin_47, McGalleon_48, MillyPhilly_46, MonChoix_43, MrWorldwide_46, Nagem_46, Nattles_45, Nebulous_42, Neferthena_45, NickSell_46, Nucci_43, Oats_45, OldNelly_47, Orpington_44, Oxtober96_47, PSirce_44, Pajaza_43, Papafritta_45, ParleG_46, Peep_46, Peppino_46, Phanita_45, Pherbot_43, Pherferi_46, Phiderman_46, Phireproof_46, PhredFlintston_46, Phriends_46, Pikmin_43, Pocket_45, PrincePhergus_43, PuppyEggo_46, Quartz_44, Raccoon_46, Rapheph_46, Raptor_46, Redfield_46, RenegadeRaider_46, Renzie_46, Riyhil_46, Rog141_45, RosieMae_45, SJay_46, Sansa_43, Saratos_44, Schimmels22_41, Schnapsidee_46, Schubert_43, Sedgewig_45, ShaiHulud_46, Shamu_45, Shee_46, Sinatra_44, SirVictor_44, SoilGremlin_47, SonOfLevi_46, Soror1_45, Stanktossa_46, StingRay_45, StirfryIV_45, Strathdee_46, Superfresh_46, Symere_45, TatarkaPM_46, Teagan_46, TeddyBear_45, Tenda_45, Thompsone_46, Thorongil_46, TinSulphur_47, Tinyman4_41, Velene_46, Vispistious_46, WestPM_40, WildNOut_46, Winzigespinne_45, YuuY_44, Zenitsu_44,

Genes that have the "Most Annotated" start but do not call it:
• Acosta_48, BeeBee8_47, Cidela_42, Endor_47, Fabyndrax_42, FarmerDoug_45, Greys_46, HavenFinLeoSun_48, JasonD_48, Kauala_43, Kurt1_46, Mercedes_39, Merida02_48, MiniVolent_42, Penta_40, PhillyPhantom_46, Robinson_46, Scissor2024_42, SolidSnake_48, Stormbreaker8_45, Xebius_44, Zada_47,

Genes that do not have the "Most Annotated" start:
• Anilorac_45, BaronJohn_45, CaptainRex_44, Cheeto1_46, Chepli_45, ChickenKing_44, Fulton_44, GaeCeo_46, GardenB_46, GoneGirl_47, GreenIvy_43, Hasitha_44, Jemerald_45, Juicer_45, KatChan_45, Librie_44, LilTerminator_44, Luna18_45, Morrigan_45, QuadZero_44, TwoBits_43, Vafari_44, Wardwill_46, WilliamStrong_44, Zayuliv_44, Zepp_44,

Summary by start number:

Start 17:
• Found in 23 of 218 (10.6%) of genes in pham

• Manual Annotations of this start: 19 of 202
• Called 87.0% of time when present
• Phage (with cluster) where this start called: BaronJohn_45 (EA5), CaptainRex_44 (EA5), Chepli_45 (EA6), Fulton_44 (EA5), GaeCeo_46 (EA9), GreenIvy_43 (EA5), Hasitha_44 (EA5), Jemerald_45 (EA6), Juicer_45 (EA6), KatChan_45 (EA6), Librie_44 (EA5), LilTerminator_44 (EA5), Luna18_45 (EA6), Morrigan_45 (EA6), QuadZero_44 (EA5), TwoBits_43 (EA5), Vafari_44 (EA5), Wardwill_46 (EA5), Zayuliv_44 (EA5), Zepp_44 (EA5),

Start 18:
• Found in 192 of 218 (88.1%) of genes in pham
• Manual Annotations of this start: 166 of 202
• Called 88.5% of time when present
• Phage (with cluster) where this start called: Agente005_46 (EA1), Alakazam_44 (EA5), AlexAdler_46 (EA1), Aleyra_46 (EA1), Alyxandracam_46 (EA1), Andromedas_44 (EA2), Antoinette_46 (EA1), AranulaLuti_45 (EA1), Asta_45 (EA1), Aubergine_45 (EA1), AxiPup_46 (EA1), Baines_45 (EA1), Balsa_45 (EA1), Bandik_46 (EA1), BeautPeep30_46 (EA1), Benjalauren_46 (EA1), BigRedClifford_46 (EA1), Blage_46 (EA1), BonesMcCoy_46 (EA1), Bonino_45 (EA1), BouleyBill_43 (EA4), Bustleton_43 (EA4), Byron23_47 (EA1), Calix_45 (EA1), CarisSwetlik_48 (EA1), Carostasia_43 (EA10), Casey_43 (EA3), Chako_45 (EA1), Chamuel_45 (EA1), ChikPic_44 (EA2), Christoph_45 (EA1), Clancy_45 (EA1), Clock_43 (EA5), ColaCorta_44 (EA2), Convict_46 (EA1), CoraRita_45 (EA1), Dave_46 (EA1), Delphidian_46 (EA1), Den3_46 (EA1), Dothraki_46 (EA1), Duocatuli_45 (EA1), Eleri_44 (EA2), Erla_45 (EA1), Espinosa_45 (EA1), Etna_46 (EA1), Etta_45 (EA1), Exploradora_45 (EA1), Figueroism_46 (EA1), Finny_45 (EA2), Garey24_46 (EA1), Gargoyle_46 (EA1), Gelo_45 (EA1), Gershwin_45 (EA1), Glamour_44 (EA2), GoingMerry_46 (EA1), Golden_43 (EA4), Gubbabump_45 (EA1), Guetzie_44 (EA4), HairyMan_41 (EA10), Hamlet_46 (EA1), HanSolo_45 (EA1), HankSprout_46 (EA1), HerculesXL_42 (EA11), HungryHenry_45 (EA1), Ilzat_45 (EA1), Inventa_46 (EA1), Ioannes_46 (EA1), Ixel_45 (EA11), Janus167_45 (EA1), JasperRussell_45 (EA1), Jenos_49 (EA1), Jerbirus_47 (EA1), JeriBeth_45 (EA1), Jingles_45 (EA4), Juanyo_43 (EA10), Kale_45 (EA1), KannH_45 (EA1), Kavo_41 (EA11), KellyGreen_47 (EA1), KingJulien_45 (EA1), Klimt_46 (EA1), Knox_46 (EA1), Koji_43 (EA4), Kouch_46 (EA1), Leafus_46 (EA1), Lovelyunicorn_46 (EA1), Lucky3_43 (EA4), Ludgate_46 (EA1), MCubed_44 (EA2), MaeLinda_46 (EA1), ManRay_45 (EA1), Mandalorian_43 (EA10), Martin_47 (EA1), McGalleon_48 (EA1), MillyPhilly_46 (EA1), MonChoix_43 (EA1), MrWorldwide_46 (EA1), Nagem_46 (EA1), Nattles_45 (EA1), Nebulous_42 (EA5), Neferthena_45 (EA5), NickSell_46 (EA1), Nucci_43 (EA10), Oats_45 (EA1), OldNelly_47 (EA1), Orpington_44 (EA2), Oxtober96_47 (EA1), PSirce_44 (EA2), Pajaza_43 (EA3), Papafritta_45 (EA1), ParleG_46 (EA1), Peep_46 (EA1), Peppino_46 (EA1), Phanita_45 (EA2), Pherbot_43 (EA4), Pherferi_46 (EA1), Phiderman_46 (EA1), Phireproof_46 (EA1), PhredFlintston_46 (EA1), Phriends_46 (EA1), Pikmin_43 (EA3), Pocket_45 (EA1), PrincePhergus_43 (EA4), PuppyEggo_46 (EA1), Quartz_44 (EA10), Raccoon_46 (EA1), Rapheph_46 (EA1), Raptor_46 (EA1), Redfield_46 (EA1), RenegadeRaider_46 (EA4), Renzie_46 (EA1), Riyhil_46 (EA1), Rog141_45 (EA1), RosieMae_45 (EA1), SJay_46 (EA1), Sansa_43 (EA2), Saratos_44 (EA2), Schimmels22_41 (EA11), Schnapsidee_46 (EA1), Schubert_43 (EA8), Sedgewig_45 (EA1), ShaiHulud_46 (EA1), Shamu_45 (EA2), Shee_46 (EA1), Sinatra_44 (EA4), SirVictor_44 (EA4), SoilGremlin_47 (EA1), SonOfLevi_46 (EA1), Soror1_45 (EA1), Stanktossa_46 (EA1), StingRay_45 (EA1), StirfryIV_45 (EA1), Strathdee_46 (EA1), Superfresh_46 (EA1), Symere_45 (EA1), TatarkaPM_46 (EA1), Teagan_46 (EA1), TeddyBear_45 (EA1), Tenda_45 (EA1),

Thompsone_46 (EA1), Thorongil_46 (EA1), TinSulphur_47 (EA1), Tinyman4_41 (EA11), Velene_46 (EA1), Vispistious_46 (EA1), WestPM_40 (EA11), WildNOut_46 (EA1), Winzigespinne_45 (EA1), YuuY_44 (EA10), Zenitsu_44 (EA2),

Start 19:
• Found in 12 of 218 (5.5%) of genes in pham
• Manual Annotations of this start: 1 of 202
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Anilorac_45 (EA1),

Start 21:
• Found in 2 of 218 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 202
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kauala_43 (EA4), WilliamStrong_44 (EA6),

Start 22:
• Found in 21 of 218 (9.6%) of genes in pham
• Manual Annotations of this start: 6 of 202
• Called 28.6% of time when present
• Phage (with cluster) where this start called: BeeBee8_47 (EA1), Endor_47 (EA1), FarmerDoug_45 (EA1), GardenB_46 (EA1), Mercedes_39 (EA), Stormbreaker8_45 (EA1),

Start 26:
• Found in 71 of 218 (32.6%) of genes in pham
• Manual Annotations of this start: 3 of 202
• Called 4.2% of time when present
• Phage (with cluster) where this start called: Cheeto1_46 (EA9), ChickenKing_44 (EA9), JasonD_48 (EA1),

Start 27:
• Found in 189 of 218 (86.7%) of genes in pham
• Manual Annotations of this start: 4 of 202
• Called 4.8% of time when present
• Phage (with cluster) where this start called: GoneGirl_47 (EA1), Greys_46 (EA1), Kurt1_46 (EA1), Merida02_48 (EA1), Penta_40 (EA11), Robinson_46 (EA1), Scissor2024_42 (EA11), SolidSnake_48 (EA1), Zada_47 (EA1),

Start 35:
• Found in 210 of 218 (96.3%) of genes in pham
• Manual Annotations of this start: 1 of 202
• Called 3.3% of time when present
• Phage (with cluster) where this start called: Acosta_48 (EA1), Cidela_42 (EA10), Fabyndrax_42 (EA10), HavenFinLeoSun_48 (EA1), MiniVolent_42 (EA10), PhillyPhantom_46 (EA1), Xebius_44 (EA2),

Summary by clusters:

There are 11 clusters represented in this pham: EA11, EA10, EA, EA9, EA8, EA1, EA3, EA2, EA5, EA4, EA6,

Info for manual annotations of cluster EA:
•Start number 22 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:
•Start number 18 was manually annotated 120 times for cluster EA1.
•Start number 19 was manually annotated 1 time for cluster EA1.
•Start number 22 was manually annotated 5 times for cluster EA1.
•Start number 26 was manually annotated 1 time for cluster EA1.
•Start number 27 was manually annotated 4 times for cluster EA1.
•Start number 35 was manually annotated 1 time for cluster EA1.

Info for manual annotations of cluster EA10:
•Start number 18 was manually annotated 7 times for cluster EA10.

Info for manual annotations of cluster EA11:
•Start number 18 was manually annotated 6 times for cluster EA11.

Info for manual annotations of cluster EA2:
•Start number 18 was manually annotated 14 times for cluster EA2.

Info for manual annotations of cluster EA3:
•Start number 18 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:
•Start number 18 was manually annotated 11 times for cluster EA4.
•Start number 21 was manually annotated 1 time for cluster EA4.

Info for manual annotations of cluster EA5:
•Start number 17 was manually annotated 12 times for cluster EA5.
•Start number 18 was manually annotated 4 times for cluster EA5.

Info for manual annotations of cluster EA6:
•Start number 17 was manually annotated 6 times for cluster EA6.
•Start number 21 was manually annotated 1 time for cluster EA6.

Info for manual annotations of cluster EA8:
•Start number 18 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:
•Start number 17 was manually annotated 1 time for cluster EA9.
•Start number 26 was manually annotated 2 times for cluster EA9.

Gene Information:

Gene: Acosta_48 Start: 33795, Stop: 33262, Start Num: 35
Candidate Starts for Acosta_48:
(Start: 18 @33975 has 166 MA's), (23, 33936), (Start: 26 @33918 has 3 MA's), (Start: 27 @33912 has 4 MA's), (33, 33843), (Start: 35 @33795 has 1 MA's), (46, 33702), (49, 33681), (58, 33519), (65, 33477),

Gene: Agente005_46 Start: 33776, Stop: 33048, Start Num: 18

Candidate Starts for Agente005_46:
(Start: 18 @33776 has 166 MA's), (Start: 22 @33752 has 6 MA's), (Start: 26 @33716 has 3 MA's), (Start: 35 @33587 has 1 MA's), (45, 33506), (46, 33488), (54, 33353), (56, 33320), (58, 33305), (65, 33263), (81, 33113),

Gene: Alakazam_44 Start: 33194, Stop: 32403, Start Num: 18
Candidate Starts for Alakazam_44:
(6, 33338), (Start: 18 @33194 has 166 MA's), (Start: 27 @33125 has 4 MA's), (Start: 35 @33005 has 1 MA's), (36, 32993), (39, 32945), (44, 32861), (45, 32858), (46, 32840), (47, 32834), (55, 32687), (59, 32651), (63, 32618), (76, 32489),

Gene: AlexAdler_46 Start: 33801, Stop: 33076, Start Num: 18
Candidate Starts for AlexAdler_46:
(Start: 18 @33801 has 166 MA's), (Start: 27 @33732 has 4 MA's), (Start: 35 @33609 has 1 MA's), (45, 33534), (55, 33366), (56, 33348), (58, 33333), (64, 33294), (68, 33249), (81, 33141),

Gene: Aleyra_46 Start: 33781, Stop: 33053, Start Num: 18
Candidate Starts for Aleyra_46:
(Start: 18 @33781 has 166 MA's), (Start: 22 @33757 has 6 MA's), (Start: 26 @33721 has 3 MA's), (Start: 35 @33592 has 1 MA's), (45, 33511), (46, 33493), (54, 33358), (56, 33325), (58, 33310), (65, 33268), (81, 33118),

Gene: Alyxandracam_46 Start: 33811, Stop: 33086, Start Num: 18
Candidate Starts for Alyxandracam_46:
(Start: 18 @33811 has 166 MA's), (Start: 27 @33742 has 4 MA's), (Start: 35 @33619 has 1 MA's), (45, 33544), (55, 33376), (56, 33358), (58, 33343), (64, 33304), (68, 33259), (81, 33151),

Gene: Andromedas_44 Start: 32738, Stop: 31959, Start Num: 18
Candidate Starts for Andromedas_44:
(Start: 18 @32738 has 166 MA's), (Start: 26 @32678 has 3 MA's), (Start: 35 @32555 has 1 MA's), (36, 32546), (44, 32420), (46, 32399), (47, 32393), (50, 32369), (55, 32246), (59, 32210), (62, 32180), (71, 32093), (73, 32087), (74, 32072), (79, 32030),

Gene: Anilorac_45 Start: 33712, Stop: 32990, Start Num: 19
Candidate Starts for Anilorac_45:
(Start: 19 @33712 has 1 MA's), (Start: 22 @33694 has 6 MA's), (Start: 26 @33658 has 3 MA's), (Start: 35 @33529 has 1 MA's), (45, 33448), (46, 33430), (54, 33295), (56, 33262), (58, 33247), (65, 33205), (81, 33055),

Gene: Antoinette_46 Start: 33801, Stop: 33076, Start Num: 18
Candidate Starts for Antoinette_46:
(Start: 18 @33801 has 166 MA's), (Start: 27 @33732 has 4 MA's), (Start: 35 @33609 has 1 MA's), (45, 33534), (55, 33366), (56, 33348), (58, 33333), (64, 33294), (68, 33249), (81, 33141),

Gene: AranulaLuti_45 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for AranulaLuti_45:
(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: Asta_45 Start: 33508, Stop: 32783, Start Num: 18
Candidate Starts for Asta_45:
(14, 33541), (Start: 18 @33508 has 166 MA's), (Start: 27 @33439 has 4 MA's), (Start: 35 @33316 has 1 MA's), (45, 33241), (55, 33073), (56, 33055), (58, 33040), (64, 33001), (68, 32956), (81, 32848),

Gene: Aubergine_45 Start: 33508, Stop: 32783, Start Num: 18
Candidate Starts for Aubergine_45:
(14, 33541), (Start: 18 @33508 has 166 MA's), (Start: 27 @33439 has 4 MA's), (Start: 35 @33316 has 1 MA's), (45, 33241), (55, 33073), (56, 33055), (58, 33040), (64, 33001), (68, 32956), (81, 32848),

Gene: AxiPup_46 Start: 33780, Stop: 33055, Start Num: 18
Candidate Starts for AxiPup_46:
(11, 33867), (Start: 18 @33780 has 166 MA's), (Start: 27 @33711 has 4 MA's), (Start: 35 @33588 has 1 MA's), (45, 33513), (55, 33345), (56, 33327), (58, 33312), (64, 33273), (68, 33228), (81, 33120),

Gene: Baines_45 Start: 33501, Stop: 32776, Start Num: 18
Candidate Starts for Baines_45:
(14, 33534), (Start: 18 @33501 has 166 MA's), (Start: 27 @33432 has 4 MA's), (Start: 35 @33309 has 1 MA's), (45, 33234), (55, 33066), (56, 33048), (58, 33033), (64, 32994), (68, 32949), (81, 32841),

Gene: Balsa_45 Start: 33763, Stop: 33035, Start Num: 18
Candidate Starts for Balsa_45:
(Start: 18 @33763 has 166 MA's), (Start: 19 @33757 has 1 MA's), (Start: 22 @33739 has 6 MA's), (Start: 26 @33703 has 3 MA's), (Start: 27 @33697 has 4 MA's), (Start: 35 @33574 has 1 MA's), (45, 33493), (46, 33475), (56, 33307), (58, 33292), (65, 33250), (70, 33178), (81, 33100),

Gene: Bandik_46 Start: 33806, Stop: 33081, Start Num: 18
Candidate Starts for Bandik_46:
(Start: 18 @33806 has 166 MA's), (Start: 27 @33737 has 4 MA's), (Start: 35 @33614 has 1 MA's), (45, 33539), (55, 33371), (56, 33353), (58, 33338), (64, 33299), (68, 33254), (81, 33146),

Gene: BaronJohn_45 Start: 31973, Stop: 31191, Start Num: 17
Candidate Starts for BaronJohn_45:
(Start: 17 @31973 has 19 MA's), (Start: 27 @31907 has 4 MA's), (Start: 35 @31787 has 1 MA's), (36, 31778), (39, 31730), (46, 31631), (47, 31625), (55, 31478), (57, 31457), (62, 31412), (63, 31409), (72, 31322), (79, 31262),

Gene: BeautPeep30_46 Start: 33812, Stop: 33087, Start Num: 18
Candidate Starts for BeautPeep30_46:
(Start: 18 @33812 has 166 MA's), (Start: 27 @33743 has 4 MA's), (Start: 35 @33620 has 1 MA's), (45, 33545), (55, 33377), (56, 33359), (58, 33344), (64, 33305), (68, 33260), (81, 33152),

Gene: BeeBee8_47 Start: 33910, Stop: 33206, Start Num: 22
Candidate Starts for BeeBee8_47:
(Start: 18 @33934 has 166 MA's), (Start: 19 @33928 has 1 MA's), (Start: 22 @33910 has 6 MA's), (Start: 26 @33874 has 3 MA's), (Start: 27 @33868 has 4 MA's), (Start: 35 @33745 has 1 MA's), (45, 33664), (46, 33646), (56, 33478), (58, 33463), (65, 33421), (70, 33349), (81, 33271),

Gene: Benjalauren_46 Start: 33514, Stop: 32789, Start Num: 18
Candidate Starts for Benjalauren_46:
(14, 33547), (Start: 18 @33514 has 166 MA's), (Start: 27 @33445 has 4 MA's), (Start: 35 @33322 has 1 MA's), (45, 33247), (55, 33079), (56, 33061), (58, 33046), (64, 33007), (68, 32962), (81, 32854),

Gene: BigRedClifford_46 Start: 33810, Stop: 33085, Start Num: 18
Candidate Starts for BigRedClifford_46:
(11, 33897), (Start: 18 @33810 has 166 MA's), (Start: 27 @33741 has 4 MA's), (Start: 35 @33618 has 1 MA's), (45, 33543), (55, 33375), (56, 33357), (58, 33342), (64, 33303), (68, 33258), (81, 33150),

Gene: Blage_46 Start: 33810, Stop: 33085, Start Num: 18
Candidate Starts for Blage_46:
(11, 33897), (Start: 18 @33810 has 166 MA's), (Start: 27 @33741 has 4 MA's), (Start: 35 @33618 has 1 MA's), (45, 33543), (55, 33375), (56, 33357), (58, 33342), (64, 33303), (68, 33258), (81, 33150),

Gene: BonesMcCoy_46 Start: 33810, Stop: 33085, Start Num: 18
Candidate Starts for BonesMcCoy_46:
(11, 33897), (Start: 18 @33810 has 166 MA's), (Start: 27 @33741 has 4 MA's), (Start: 35 @33618 has 1 MA's), (45, 33543), (55, 33375), (56, 33357), (58, 33342), (64, 33303), (68, 33258), (81, 33150),

Gene: Bonino_45 Start: 33487, Stop: 32762, Start Num: 18
Candidate Starts for Bonino_45:
(14, 33520), (Start: 18 @33487 has 166 MA's), (Start: 27 @33418 has 4 MA's), (Start: 35 @33295 has 1 MA's), (45, 33220), (55, 33052), (56, 33034), (58, 33019), (64, 32980), (68, 32935), (81, 32827),

Gene: BouleyBill_43 Start: 32763, Stop: 31951, Start Num: 18
Candidate Starts for BouleyBill_43:
(Start: 18 @32763 has 166 MA's), (Start: 26 @32703 has 3 MA's), (Start: 27 @32697 has 4 MA's), (Start: 35 @32577 has 1 MA's), (37, 32547), (46, 32394), (48, 32379), (49, 32370), (51, 32295), (54, 32256), (56, 32223), (66, 32139), (70, 32094), (77, 32040), (81, 32016), (83, 31983),

Gene: Bustleton_43 Start: 32557, Stop: 31745, Start Num: 18
Candidate Starts for Bustleton_43:
(Start: 18 @32557 has 166 MA's), (Start: 26 @32497 has 3 MA's), (Start: 27 @32491 has 4 MA's), (Start: 35 @32371 has 1 MA's), (37, 32341), (46, 32188), (48, 32173), (49, 32164), (51, 32089), (54, 32050), (56, 32017), (66, 31933), (70, 31888), (77, 31834), (81, 31810),

Gene: Byron23_47 Start: 33809, Stop: 33084, Start Num: 18
Candidate Starts for Byron23_47:
(Start: 18 @33809 has 166 MA's), (Start: 27 @33740 has 4 MA's), (Start: 35 @33617 has 1 MA's), (45, 33542), (55, 33374), (56, 33356), (58, 33341), (64, 33302), (68, 33257), (81, 33149),

Gene: Calix_45 Start: 33494, Stop: 32769, Start Num: 18
Candidate Starts for Calix_45:
(14, 33527), (Start: 18 @33494 has 166 MA's), (Start: 27 @33425 has 4 MA's), (Start: 35 @33302 has 1 MA's), (45, 33227), (55, 33059), (56, 33041), (58, 33026), (64, 32987), (68, 32942), (81, 32834),

Gene: CaptainRex_44 Start: 31206, Stop: 30424, Start Num: 17
Candidate Starts for CaptainRex_44:
(Start: 17 @31206 has 19 MA's), (Start: 27 @31140 has 4 MA's), (Start: 35 @31020 has 1 MA's), (36, 31011), (39, 30963), (46, 30864), (47, 30858), (55, 30711), (57, 30690), (62, 30645), (63, 30642), (72, 30555), (79, 30495),

Gene: CarisSwetlik_48 Start: 34350, Stop: 33610, Start Num: 18
Candidate Starts for CarisSwetlik_48:
(Start: 18 @34350 has 166 MA's), (Start: 26 @34290 has 3 MA's), (Start: 27 @34284 has 4 MA's), (33, 34209), (Start: 35 @34161 has 1 MA's), (42, 34119), (55, 33900), (58, 33867), (65, 33825), (81, 33675),

Gene: Carostasia_43 Start: 32271, Stop: 31492, Start Num: 18
Candidate Starts for Carostasia_43:

(Start: 18 @32271 has 166 MA's), (Start: 26 @32211 has 3 MA's), (Start: 27 @32205 has 4 MA's), (Start: 35 @32088 has 1 MA's), (36, 32079), (39, 32031), (44, 31953), (46, 31932), (47, 31926), (49, 31908), (54, 31794), (55, 31779), (57, 31758), (59, 31743), (61, 31731), (63, 31710), (72, 31623), (74, 31605), (75, 31587), (79, 31563), (82, 31545),

Gene: Casey_43 Start: 32217, Stop: 31417, Start Num: 18
Candidate Starts for Casey_43:
(9, 32328), (13, 32268), (Start: 18 @32217 has 166 MA's), (Start: 26 @32157 has 3 MA's), (31, 32121), (Start: 35 @32028 has 1 MA's), (37, 32010), (46, 31860), (51, 31761), (52, 31758), (56, 31689), (65, 31632), (69, 31587), (78, 31494), (80, 31485), (81, 31482), (83, 31449),

Gene: Chako_45 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for Chako_45:
(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: Chamuel_45 Start: 33520, Stop: 32795, Start Num: 18
Candidate Starts for Chamuel_45:
(14, 33553), (Start: 18 @33520 has 166 MA's), (Start: 27 @33451 has 4 MA's), (Start: 35 @33328 has 1 MA's), (45, 33253), (55, 33085), (56, 33067), (58, 33052), (64, 33013), (68, 32968), (81, 32860),

Gene: Cheeto1_46 Start: 33211, Stop: 32546, Start Num: 26
Candidate Starts for Cheeto1_46:
(Start: 17 @33274 has 19 MA's), (Start: 26 @33211 has 3 MA's), (Start: 35 @33082 has 1 MA's), (46, 32989), (48, 32974), (55, 32836), (56, 32818), (61, 32788), (65, 32761), (77, 32635), (81, 32611),

Gene: Chepli_45 Start: 32099, Stop: 31398, Start Num: 17
Candidate Starts for Chepli_45:
(6, 32237), (15, 32126), (Start: 17 @32099 has 19 MA's), (Start: 27 @32036 has 4 MA's), (Start: 35 @31925 has 1 MA's), (44, 31862), (46, 31841), (48, 31826), (49, 31817), (54, 31703), (55, 31688), (62, 31622), (71, 31535), (83, 31430),

Gene: ChickenKing_44 Start: 33104, Stop: 32439, Start Num: 26
Candidate Starts for ChickenKing_44:
(Start: 17 @33167 has 19 MA's), (Start: 26 @33104 has 3 MA's), (Start: 35 @32975 has 1 MA's), (46, 32882), (48, 32867), (55, 32729), (56, 32711), (65, 32654), (77, 32528), (81, 32504),

Gene: ChikPic_44 Start: 32592, Stop: 31813, Start Num: 18
Candidate Starts for ChikPic_44:
(Start: 18 @32592 has 166 MA's), (Start: 26 @32532 has 3 MA's), (Start: 35 @32409 has 1 MA's), (36, 32400), (44, 32274), (46, 32253), (47, 32247), (50, 32223), (55, 32100), (59, 32064), (62, 32034), (71, 31947), (73, 31941), (79, 31884),

Gene: Christoph_45 Start: 33507, Stop: 32782, Start Num: 18
Candidate Starts for Christoph_45:
(14, 33540), (Start: 18 @33507 has 166 MA's), (Start: 27 @33438 has 4 MA's), (Start: 35 @33315 has 1 MA's), (45, 33240), (55, 33072), (56, 33054), (58, 33039), (64, 33000), (68, 32955), (81, 32847),

Gene: Cidela_42 Start: 33131, Stop: 32535, Start Num: 35
Candidate Starts for Cidela_42:
(Start: 18 @33314 has 166 MA's), (Start: 26 @33254 has 3 MA's), (Start: 27 @33248 has 4 MA's), (Start: 35 @33131 has 1 MA's), (36, 33122), (39, 33074), (44, 32996), (47, 32969), (54, 32837), (55, 32822), (57, 32801), (61, 32774), (63, 32753), (72, 32666), (74, 32648), (79, 32606), (82, 32588),

Gene: Clancy_45 Start: 33543, Stop: 32818, Start Num: 18
Candidate Starts for Clancy_45:
(14, 33576), (Start: 18 @33543 has 166 MA's), (Start: 27 @33474 has 4 MA's), (Start: 35 @33351 has 1 MA's), (45, 33276), (55, 33108), (56, 33090), (58, 33075), (64, 33036), (68, 32991), (81, 32883),

Gene: Clock_43 Start: 33933, Stop: 33151, Start Num: 18
Candidate Starts for Clock_43:
(Start: 18 @33933 has 166 MA's), (Start: 27 @33864 has 4 MA's), (Start: 35 @33747 has 1 MA's), (36, 33735), (39, 33687), (41, 33651), (44, 33609), (46, 33588), (47, 33582), (54, 33450), (57, 33414), (59, 33399), (63, 33366),

Gene: ColaCorta_44 Start: 32738, Stop: 31959, Start Num: 18
Candidate Starts for ColaCorta_44:
(Start: 18 @32738 has 166 MA's), (Start: 26 @32678 has 3 MA's), (Start: 35 @32555 has 1 MA's), (36, 32546), (44, 32420), (46, 32399), (47, 32393), (50, 32369), (55, 32246), (59, 32210), (62, 32180), (71, 32093), (73, 32087), (74, 32072), (79, 32030),

Gene: Convict_46 Start: 33810, Stop: 33085, Start Num: 18
Candidate Starts for Convict_46:
(11, 33897), (Start: 18 @33810 has 166 MA's), (Start: 27 @33741 has 4 MA's), (Start: 35 @33618 has 1 MA's), (45, 33543), (55, 33375), (56, 33357), (58, 33342), (64, 33303), (68, 33258), (81, 33150),

Gene: CoraRita_45 Start: 33513, Stop: 32788, Start Num: 18
Candidate Starts for CoraRita_45:
(14, 33546), (Start: 18 @33513 has 166 MA's), (Start: 27 @33444 has 4 MA's), (Start: 35 @33321 has 1 MA's), (45, 33246), (55, 33078), (56, 33060), (58, 33045), (64, 33006), (68, 32961), (81, 32853),

Gene: Dave_46 Start: 33801, Stop: 33076, Start Num: 18
Candidate Starts for Dave_46:
(Start: 18 @33801 has 166 MA's), (Start: 27 @33732 has 4 MA's), (Start: 35 @33609 has 1 MA's), (45, 33534), (55, 33366), (56, 33348), (58, 33333), (64, 33294), (68, 33249), (81, 33141),

Gene: Delphidian_46 Start: 33809, Stop: 33084, Start Num: 18
Candidate Starts for Delphidian_46:
(Start: 18 @33809 has 166 MA's), (Start: 27 @33740 has 4 MA's), (Start: 35 @33617 has 1 MA's), (45, 33542), (55, 33374), (56, 33356), (58, 33341), (64, 33302), (68, 33257), (81, 33149),

Gene: Den3_46 Start: 33815, Stop: 33090, Start Num: 18
Candidate Starts for Den3_46:
(11, 33902), (Start: 18 @33815 has 166 MA's), (Start: 27 @33746 has 4 MA's), (Start: 35 @33623 has 1 MA's), (45, 33548), (55, 33380), (56, 33362), (58, 33347), (64, 33308), (68, 33263), (81, 33155),

Gene: Dothraki_46 Start: 33809, Stop: 33084, Start Num: 18
Candidate Starts for Dothraki_46:
(Start: 18 @33809 has 166 MA's), (Start: 27 @33740 has 4 MA's), (Start: 35 @33617 has 1 MA's), (45, 33542), (55, 33374), (56, 33356), (58, 33341), (64, 33302), (68, 33257), (81, 33149),

Gene: Duocatuli_45 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for Duocatuli_45:
(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: Eleri_44 Start: 32582, Stop: 31803, Start Num: 18
Candidate Starts for Eleri_44:
(Start: 18 @32582 has 166 MA's), (Start: 26 @32522 has 3 MA's), (Start: 35 @32399 has 1 MA's), (36, 32390), (44, 32264), (46, 32243), (47, 32237), (50, 32213), (55, 32090), (59, 32054), (62, 32024), (71, 31937), (73, 31931), (74, 31916), (79, 31874),

Gene: Endor_47 Start: 33982, Stop: 33278, Start Num: 22
Candidate Starts for Endor_47:
(15, 34036), (Start: 18 @34006 has 166 MA's), (Start: 22 @33982 has 6 MA's), (Start: 26 @33946 has 3 MA's), (Start: 27 @33940 has 4 MA's), (Start: 35 @33817 has 1 MA's), (45, 33736), (46, 33718), (56, 33550), (58, 33535), (65, 33493), (81, 33343),

Gene: Erla_45 Start: 33491, Stop: 32766, Start Num: 18
Candidate Starts for Erla_45:
(14, 33524), (Start: 18 @33491 has 166 MA's), (Start: 27 @33422 has 4 MA's), (Start: 35 @33299 has 1 MA's), (45, 33224), (55, 33056), (56, 33038), (58, 33023), (64, 32984), (68, 32939), (81, 32831),

Gene: Espinosa_45 Start: 33506, Stop: 32781, Start Num: 18
Candidate Starts for Espinosa_45:
(14, 33539), (Start: 18 @33506 has 166 MA's), (Start: 27 @33437 has 4 MA's), (Start: 35 @33314 has 1 MA's), (45, 33239), (55, 33071), (56, 33053), (58, 33038), (64, 32999), (68, 32954), (81, 32846),

Gene: Etna_46 Start: 33810, Stop: 33082, Start Num: 18
Candidate Starts for Etna_46:
(Start: 18 @33810 has 166 MA's), (Start: 22 @33786 has 6 MA's), (Start: 26 @33750 has 3 MA's), (Start: 27 @33744 has 4 MA's), (Start: 35 @33621 has 1 MA's), (45, 33540), (46, 33522), (56, 33354), (58, 33339), (65, 33297), (81, 33147),

Gene: Etta_45 Start: 33495, Stop: 32770, Start Num: 18
Candidate Starts for Etta_45:
(14, 33528), (Start: 18 @33495 has 166 MA's), (Start: 27 @33426 has 4 MA's), (Start: 35 @33303 has 1 MA's), (45, 33228), (55, 33060), (56, 33042), (58, 33027), (64, 32988), (68, 32943), (81, 32835),

Gene: Exploradora_45 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for Exploradora_45:
(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: Fabyndrax_42 Start: 33143, Stop: 32547, Start Num: 35
Candidate Starts for Fabyndrax_42:
(Start: 18 @33326 has 166 MA's), (Start: 26 @33266 has 3 MA's), (Start: 27 @33260 has 4 MA's), (Start: 35 @33143 has 1 MA's), (36, 33134), (39, 33086), (44, 33008), (47, 32981), (54, 32849), (55, 32834), (57, 32813), (61, 32786), (63, 32765), (72, 32678), (74, 32660), (79, 32618), (82, 32600),

Gene: FarmerDoug_45 Start: 33486, Stop: 32788, Start Num: 22
Candidate Starts for FarmerDoug_45:
(7, 33633), (11, 33597), (Start: 18 @33510 has 166 MA's), (Start: 22 @33486 has 6 MA's), (Start: 26 @33450 has 3 MA's), (Start: 27 @33444 has 4 MA's), (33, 33369), (Start: 35 @33321 has 1 MA's), (44, 33249), (46, 33228), (55, 33078), (56, 33060), (57, 33057), (60, 33033), (65, 33003), (81, 32853),

Gene: Figueroism_46 Start: 33800, Stop: 33075, Start Num: 18
Candidate Starts for Figueroism_46:

(Start: 18 @33800 has 166 MA's), (Start: 27 @33731 has 4 MA's), (Start: 35 @33608 has 1 MA's), (45, 33533), (55, 33365), (56, 33347), (58, 33332), (64, 33293), (68, 33248), (81, 33140),

Gene: Finny_45 Start: 32576, Stop: 31797, Start Num: 18
Candidate Starts for Finny_45:
(Start: 18 @32576 has 166 MA's), (Start: 26 @32516 has 3 MA's), (Start: 35 @32393 has 1 MA's), (36, 32384), (44, 32258), (46, 32237), (47, 32231), (50, 32207), (55, 32084), (59, 32048), (62, 32018), (71, 31931), (73, 31925), (79, 31868),

Gene: Fulton_44 Start: 31207, Stop: 30425, Start Num: 17
Candidate Starts for Fulton_44:
(Start: 17 @31207 has 19 MA's), (Start: 27 @31141 has 4 MA's), (Start: 35 @31021 has 1 MA's), (36, 31012), (39, 30964), (46, 30865), (47, 30859), (55, 30712), (57, 30691), (62, 30646), (63, 30643), (72, 30556), (79, 30496),

Gene: GaeCeo_46 Start: 33400, Stop: 32672, Start Num: 17
Candidate Starts for GaeCeo_46:
(Start: 17 @33400 has 19 MA's), (Start: 26 @33337 has 3 MA's), (Start: 35 @33208 has 1 MA's), (46, 33115), (48, 33100), (55, 32962), (56, 32944), (65, 32887), (77, 32761), (81, 32737),

Gene: GardenB_46 Start: 33727, Stop: 33023, Start Num: 22
Candidate Starts for GardenB_46:
(Start: 19 @33745 has 1 MA's), (Start: 22 @33727 has 6 MA's), (Start: 26 @33691 has 3 MA's), (Start: 27 @33685 has 4 MA's), (Start: 35 @33562 has 1 MA's), (45, 33481), (46, 33463), (54, 33328), (56, 33295), (58, 33280), (81, 33088),

Gene: Garey24_46 Start: 33474, Stop: 32749, Start Num: 18
Candidate Starts for Garey24_46:
(14, 33507), (Start: 18 @33474 has 166 MA's), (Start: 27 @33405 has 4 MA's), (Start: 35 @33282 has 1 MA's), (45, 33207), (55, 33039), (56, 33021), (58, 33006), (64, 32967), (68, 32922), (81, 32814),

Gene: Gargoyle_46 Start: 33815, Stop: 33090, Start Num: 18
Candidate Starts for Gargoyle_46:
(11, 33902), (Start: 18 @33815 has 166 MA's), (Start: 27 @33746 has 4 MA's), (Start: 35 @33623 has 1 MA's), (45, 33548), (55, 33380), (56, 33362), (58, 33347), (64, 33308), (68, 33263), (81, 33155),

Gene: Gelo_45 Start: 33501, Stop: 32776, Start Num: 18
Candidate Starts for Gelo_45:
(14, 33534), (Start: 18 @33501 has 166 MA's), (Start: 27 @33432 has 4 MA's), (Start: 35 @33309 has 1 MA's), (45, 33234), (55, 33066), (56, 33048), (58, 33033), (64, 32994), (68, 32949), (81, 32841),

Gene: Gershwin_45 Start: 33508, Stop: 32783, Start Num: 18
Candidate Starts for Gershwin_45:
(14, 33541), (Start: 18 @33508 has 166 MA's), (Start: 27 @33439 has 4 MA's), (Start: 35 @33316 has 1 MA's), (45, 33241), (55, 33073), (56, 33055), (58, 33040), (64, 33001), (68, 32956), (81, 32848),

Gene: Glamour_44 Start: 32730, Stop: 31951, Start Num: 18
Candidate Starts for Glamour_44:
(Start: 18 @32730 has 166 MA's), (Start: 26 @32670 has 3 MA's), (Start: 35 @32547 has 1 MA's), (36, 32538), (44, 32412), (46, 32391), (47, 32385), (50, 32361), (55, 32238), (59, 32202), (62, 32172), (71, 32085), (73, 32079), (74, 32064), (79, 32022),

Gene: GoingMerry_46 Start: 33793, Stop: 33068, Start Num: 18

Candidate Starts for GoingMerry_46:
(11, 33880), (Start: 18 @33793 has 166 MA's), (Start: 27 @33724 has 4 MA's), (Start: 35 @33601 has 1 MA's), (45, 33526), (55, 33358), (56, 33340), (58, 33325), (64, 33286), (68, 33241), (81, 33133),

Gene: Golden_43 Start: 32643, Stop: 31837, Start Num: 18
Candidate Starts for Golden_43:
(8, 32757), (Start: 18 @32643 has 166 MA's), (Start: 26 @32583 has 3 MA's), (Start: 27 @32577 has 4 MA's), (Start: 35 @32457 has 1 MA's), (37, 32430), (44, 32301), (46, 32280), (50, 32250), (52, 32178), (54, 32142), (55, 32127), (56, 32109), (66, 32025), (81, 31902),

Gene: GoneGirl_47 Start: 33678, Stop: 33016, Start Num: 27
Candidate Starts for GoneGirl_47:
(Start: 19 @33738 has 1 MA's), (Start: 22 @33720 has 6 MA's), (Start: 26 @33684 has 3 MA's), (Start: 27 @33678 has 4 MA's), (Start: 35 @33555 has 1 MA's), (45, 33474), (46, 33456), (54, 33321), (56, 33288), (58, 33273), (81, 33081),

Gene: GreenIvy_43 Start: 31562, Stop: 30780, Start Num: 17
Candidate Starts for GreenIvy_43:
(Start: 17 @31562 has 19 MA's), (Start: 27 @31496 has 4 MA's), (Start: 35 @31376 has 1 MA's), (36, 31367), (39, 31319), (46, 31220), (47, 31214), (55, 31067), (57, 31046), (62, 31001), (63, 30998), (72, 30911), (79, 30851),

Gene: Greys_46 Start: 33739, Stop: 33083, Start Num: 27
Candidate Starts for Greys_46:
(11, 33895), (Start: 18 @33808 has 166 MA's), (Start: 27 @33739 has 4 MA's), (Start: 35 @33616 has 1 MA's), (45, 33541), (55, 33373), (56, 33355), (58, 33340), (64, 33301), (68, 33256), (81, 33148),

Gene: Gubbabump_45 Start: 33488, Stop: 32763, Start Num: 18
Candidate Starts for Gubbabump_45:
(14, 33521), (Start: 18 @33488 has 166 MA's), (Start: 27 @33419 has 4 MA's), (Start: 35 @33296 has 1 MA's), (45, 33221), (55, 33053), (56, 33035), (58, 33020), (64, 32981), (68, 32936), (81, 32828),

Gene: Guetzie_44 Start: 32628, Stop: 31822, Start Num: 18
Candidate Starts for Guetzie_44:
(8, 32742), (Start: 18 @32628 has 166 MA's), (Start: 26 @32568 has 3 MA's), (Start: 27 @32562 has 4 MA's), (Start: 35 @32442 has 1 MA's), (37, 32415), (44, 32286), (46, 32265), (50, 32235), (52, 32163), (54, 32127), (55, 32112), (56, 32094), (66, 32010), (81, 31887),

Gene: HairyMan_41 Start: 32161, Stop: 31448, Start Num: 18
Candidate Starts for HairyMan_41:
(Start: 18 @32161 has 166 MA's), (Start: 26 @32101 has 3 MA's), (Start: 27 @32095 has 4 MA's), (28, 32092), (Start: 35 @31972 has 1 MA's), (44, 31912), (46, 31891), (50, 31861), (54, 31753), (55, 31738), (56, 31720), (58, 31705), (62, 31672), (64, 31666), (81, 31513), (83, 31480),

Gene: Hamlet_46 Start: 33755, Stop: 33027, Start Num: 18
Candidate Starts for Hamlet_46:
(Start: 18 @33755 has 166 MA's), (Start: 19 @33749 has 1 MA's), (Start: 22 @33731 has 6 MA's), (Start: 26 @33695 has 3 MA's), (Start: 27 @33689 has 4 MA's), (Start: 35 @33566 has 1 MA's), (45, 33485), (46, 33467), (56, 33299), (58, 33284), (65, 33242), (70, 33170), (81, 33092),

Gene: HanSolo_45 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for HanSolo_45:

(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: HankSprout_46 Start: 33375, Stop: 32650, Start Num: 18
Candidate Starts for HankSprout_46:
(14, 33408), (Start: 18 @33375 has 166 MA's), (Start: 27 @33306 has 4 MA's), (Start: 35 @33183 has 1 MA's), (45, 33108), (55, 32940), (56, 32922), (58, 32907), (64, 32868), (68, 32823), (81, 32715),

Gene: Hasitha_44 Start: 31219, Stop: 30437, Start Num: 17
Candidate Starts for Hasitha_44:
(Start: 17 @31219 has 19 MA's), (Start: 27 @31153 has 4 MA's), (Start: 35 @31033 has 1 MA's), (36, 31024), (39, 30976), (46, 30877), (47, 30871), (55, 30724), (57, 30703), (62, 30658), (63, 30655), (72, 30568), (79, 30508),

Gene: HavenFinLeoSun_48 Start: 33742, Stop: 33209, Start Num: 35
Candidate Starts for HavenFinLeoSun_48:
(Start: 18 @33922 has 166 MA's), (23, 33883), (Start: 26 @33865 has 3 MA's), (Start: 27 @33859 has 4 MA's), (33, 33790), (Start: 35 @33742 has 1 MA's), (46, 33649), (49, 33628), (58, 33466), (65, 33424),

Gene: HerculesXL_42 Start: 31320, Stop: 30547, Start Num: 18
Candidate Starts for HerculesXL_42:
(Start: 18 @31320 has 166 MA's), (34, 31158), (38, 31140), (42, 31041), (44, 31011), (46, 30990), (54, 30852), (55, 30837), (56, 30819), (57, 30816), (71, 30684), (72, 30681), (77, 30636), (81, 30612), (83, 30579),

Gene: HungryHenry_45 Start: 33503, Stop: 32778, Start Num: 18
Candidate Starts for HungryHenry_45:
(14, 33536), (Start: 18 @33503 has 166 MA's), (Start: 27 @33434 has 4 MA's), (Start: 35 @33311 has 1 MA's), (45, 33236), (55, 33068), (56, 33050), (58, 33035), (64, 32996), (68, 32951), (81, 32843),

Gene: Ilzat_45 Start: 33514, Stop: 32789, Start Num: 18
Candidate Starts for Ilzat_45:
(14, 33547), (Start: 18 @33514 has 166 MA's), (Start: 27 @33445 has 4 MA's), (Start: 35 @33322 has 1 MA's), (45, 33247), (55, 33079), (56, 33061), (58, 33046), (64, 33007), (68, 32962), (81, 32854),

Gene: Inventa_46 Start: 33806, Stop: 33081, Start Num: 18
Candidate Starts for Inventa_46:
(Start: 18 @33806 has 166 MA's), (Start: 27 @33737 has 4 MA's), (Start: 35 @33614 has 1 MA's), (45, 33539), (55, 33371), (56, 33353), (58, 33338), (64, 33299), (68, 33254), (81, 33146),

Gene: Ioannes_46 Start: 33810, Stop: 33085, Start Num: 18
Candidate Starts for Ioannes_46:
(Start: 18 @33810 has 166 MA's), (Start: 27 @33741 has 4 MA's), (Start: 35 @33618 has 1 MA's), (45, 33543), (55, 33375), (56, 33357), (58, 33342), (64, 33303), (68, 33258), (81, 33150),

Gene: Ixel_45 Start: 32997, Stop: 32293, Start Num: 18
Candidate Starts for Ixel_45:
(1, 33495), (2, 33357), (16, 33024), (Start: 18 @32997 has 166 MA's), (Start: 27 @32937 has 4 MA's), (34, 32835), (44, 32757), (46, 32736), (48, 32721), (54, 32598), (55, 32583), (56, 32565), (68, 32466), (71, 32430),

Gene: Janus167_45 Start: 33495, Stop: 32770, Start Num: 18

Candidate Starts for Janus167_45:
(14, 33528), (Start: 18 @33495 has 166 MA's), (Start: 27 @33426 has 4 MA's), (Start: 35 @33303 has 1 MA's), (45, 33228), (55, 33060), (56, 33042), (58, 33027), (64, 32988), (68, 32943), (81, 32835),

Gene: JasonD_48 Start: 33846, Stop: 33190, Start Num: 26
Candidate Starts for JasonD_48:
(Start: 18 @33903 has 166 MA's), (23, 33864), (Start: 26 @33846 has 3 MA's), (Start: 27 @33840 has 4 MA's), (33, 33771), (Start: 35 @33723 has 1 MA's), (43, 33660), (46, 33630), (49, 33609), (58, 33447), (65, 33405),

Gene: JasperRussell_45 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for JasperRussell_45:
(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: Jemerald_45 Start: 33166, Stop: 32465, Start Num: 17
Candidate Starts for Jemerald_45:
(Start: 17 @33166 has 19 MA's), (23, 33121), (Start: 27 @33097 has 4 MA's), (29, 33091), (Start: 35 @32974 has 1 MA's), (42, 32959), (44, 32929), (46, 32908), (55, 32755), (81, 32530), (83, 32497),

Gene: Jenos_49 Start: 34633, Stop: 33893, Start Num: 18
Candidate Starts for Jenos_49:
(Start: 18 @34633 has 166 MA's), (Start: 26 @34573 has 3 MA's), (Start: 27 @34567 has 4 MA's), (Start: 35 @34444 has 1 MA's), (42, 34402), (55, 34183), (58, 34150), (65, 34108), (81, 33958),

Gene: Jerbirus_47 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for Jerbirus_47:
(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: JeriBeth_45 Start: 33361, Stop: 32636, Start Num: 18
Candidate Starts for JeriBeth_45:
(14, 33394), (Start: 18 @33361 has 166 MA's), (Start: 27 @33292 has 4 MA's), (Start: 35 @33169 has 1 MA's), (45, 33094), (55, 32926), (56, 32908), (58, 32893), (64, 32854), (68, 32809), (81, 32701),

Gene: Jingles_45 Start: 32772, Stop: 31960, Start Num: 18
Candidate Starts for Jingles_45:
(Start: 18 @32772 has 166 MA's), (Start: 26 @32712 has 3 MA's), (Start: 27 @32706 has 4 MA's), (Start: 35 @32586 has 1 MA's), (37, 32556), (46, 32403), (48, 32388), (49, 32379), (51, 32304), (54, 32265), (56, 32232), (66, 32148), (70, 32103), (77, 32049), (81, 32025), (83, 31992),

Gene: Juanyo_43 Start: 32202, Stop: 31423, Start Num: 18
Candidate Starts for Juanyo_43:
(3, 32538), (4, 32478), (5, 32457), (10, 32292), (Start: 18 @32202 has 166 MA's), (Start: 26 @32142 has 3 MA's), (Start: 27 @32136 has 4 MA's), (Start: 35 @32019 has 1 MA's), (36, 32010), (39, 31962), (44, 31884), (47, 31857), (49, 31839), (54, 31725), (57, 31689), (59, 31674), (61, 31662), (62, 31644), (63, 31641), (72, 31554), (74, 31536), (82, 31476),

Gene: Juicer_45 Start: 33166, Stop: 32465, Start Num: 17
Candidate Starts for Juicer_45:
(Start: 17 @33166 has 19 MA's), (23, 33121), (Start: 27 @33097 has 4 MA's), (29, 33091), (Start: 35 @32974 has 1 MA's), (42, 32959), (44, 32929), (46, 32908), (55, 32755), (81, 32530), (83, 32497),

Gene: Kale_45 Start: 33510, Stop: 32785, Start Num: 18
Candidate Starts for Kale_45:
(14, 33543), (Start: 18 @33510 has 166 MA's), (Start: 27 @33441 has 4 MA's), (Start: 35 @33318 has 1 MA's), (45, 33243), (55, 33075), (56, 33057), (58, 33042), (64, 33003), (68, 32958), (81, 32850),

Gene: KannH_45 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for KannH_45:
(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: KatChan_45 Start: 32111, Stop: 31410, Start Num: 17
Candidate Starts for KatChan_45:
(6, 32249), (15, 32138), (Start: 17 @32111 has 19 MA's), (Start: 27 @32048 has 4 MA's), (Start: 35 @31937 has 1 MA's), (44, 31874), (46, 31853), (48, 31838), (49, 31829), (54, 31715), (55, 31700), (62, 31634), (71, 31547), (83, 31442),

Gene: Kauala_43 Start: 32902, Stop: 32117, Start Num: 21
Candidate Starts for Kauala_43:
(Start: 18 @32926 has 166 MA's), (Start: 21 @32902 has 2 MA's), (Start: 26 @32866 has 3 MA's), (Start: 27 @32860 has 4 MA's), (Start: 35 @32740 has 1 MA's), (37, 32710), (44, 32581), (46, 32560), (49, 32536), (51, 32461), (52, 32458), (53, 32437), (55, 32407), (57, 32386), (70, 32260), (77, 32206), (81, 32182), (83, 32149),

Gene: Kavo_41 Start: 31364, Stop: 30669, Start Num: 18
Candidate Starts for Kavo_41:
(Start: 18 @31364 has 166 MA's), (Start: 27 @31304 has 4 MA's), (34, 31202), (43, 31142), (44, 31133), (46, 31112), (54, 30974), (55, 30959), (56, 30941), (57, 30938), (68, 30842), (71, 30806), (76, 30761), (83, 30701),

Gene: KellyGreen_47 Start: 33492, Stop: 32767, Start Num: 18
Candidate Starts for KellyGreen_47:
(14, 33525), (Start: 18 @33492 has 166 MA's), (Start: 27 @33423 has 4 MA's), (Start: 35 @33300 has 1 MA's), (45, 33225), (55, 33057), (56, 33039), (58, 33024), (64, 32985), (68, 32940), (81, 32832),

Gene: KingJulien_45 Start: 33646, Stop: 32918, Start Num: 18
Candidate Starts for KingJulien_45:
(Start: 18 @33646 has 166 MA's), (Start: 19 @33640 has 1 MA's), (Start: 22 @33622 has 6 MA's), (Start: 26 @33586 has 3 MA's), (Start: 27 @33580 has 4 MA's), (Start: 35 @33457 has 1 MA's), (45, 33376), (46, 33358), (56, 33190), (58, 33175), (65, 33133), (70, 33061), (81, 32983),

Gene: Klimt_46 Start: 33526, Stop: 32801, Start Num: 18
Candidate Starts for Klimt_46:
(14, 33559), (Start: 18 @33526 has 166 MA's), (Start: 27 @33457 has 4 MA's), (Start: 35 @33334 has 1 MA's), (45, 33259), (55, 33091), (56, 33073), (58, 33058), (64, 33019), (68, 32974), (81, 32866),

Gene: Knox_46 Start: 33810, Stop: 33085, Start Num: 18
Candidate Starts for Knox_46:
(11, 33897), (Start: 18 @33810 has 166 MA's), (Start: 27 @33741 has 4 MA's), (Start: 35 @33618 has 1 MA's), (45, 33543), (55, 33375), (56, 33357), (58, 33342), (64, 33303), (68, 33258), (81, 33150),

Gene: Koji_43 Start: 32928, Stop: 32116, Start Num: 18
Candidate Starts for Koji_43:

(Start: 18 @32928 has 166 MA's), (Start: 26 @32868 has 3 MA's), (Start: 27 @32862 has 4 MA's), (Start: 35 @32742 has 1 MA's), (37, 32712), (46, 32559), (48, 32544), (49, 32535), (51, 32460), (54, 32421), (56, 32388), (66, 32304), (70, 32259), (77, 32205), (81, 32181), (83, 32148),

Gene: Kouch_46 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for Kouch_46:
(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: Kurt1_46 Start: 33737, Stop: 33081, Start Num: 27
Candidate Starts for Kurt1_46:
(Start: 18 @33806 has 166 MA's), (Start: 27 @33737 has 4 MA's), (Start: 35 @33614 has 1 MA's), (45, 33539), (55, 33371), (56, 33353), (58, 33338), (64, 33299), (68, 33254), (81, 33146),

Gene: Leafus_46 Start: 33909, Stop: 33181, Start Num: 18
Candidate Starts for Leafus_46:
(Start: 18 @33909 has 166 MA's), (Start: 22 @33885 has 6 MA's), (Start: 26 @33849 has 3 MA's), (Start: 27 @33843 has 4 MA's), (Start: 35 @33720 has 1 MA's), (45, 33639), (46, 33621), (56, 33453), (58, 33438), (65, 33396), (70, 33324), (81, 33246),

Gene: Librie_44 Start: 31206, Stop: 30424, Start Num: 17
Candidate Starts for Librie_44:
(Start: 17 @31206 has 19 MA's), (Start: 27 @31140 has 4 MA's), (Start: 35 @31020 has 1 MA's), (36, 31011), (39, 30963), (46, 30864), (47, 30858), (55, 30711), (57, 30690), (62, 30645), (63, 30642), (72, 30555), (79, 30495),

Gene: LilTerminator_44 Start: 31228, Stop: 30446, Start Num: 17
Candidate Starts for LilTerminator_44:
(Start: 17 @31228 has 19 MA's), (Start: 27 @31162 has 4 MA's), (Start: 35 @31042 has 1 MA's), (36, 31033), (39, 30985), (46, 30886), (47, 30880), (55, 30733), (57, 30712), (62, 30667), (63, 30664), (72, 30577), (79, 30517),

Gene: Lovelyunicorn_46 Start: 33811, Stop: 33086, Start Num: 18
Candidate Starts for Lovelyunicorn_46:
(11, 33898), (Start: 18 @33811 has 166 MA's), (Start: 27 @33742 has 4 MA's), (Start: 35 @33619 has 1 MA's), (45, 33544), (55, 33376), (56, 33358), (58, 33343), (64, 33304), (68, 33259), (81, 33151),

Gene: Lucky3_43 Start: 32643, Stop: 31837, Start Num: 18
Candidate Starts for Lucky3_43:
(8, 32757), (Start: 18 @32643 has 166 MA's), (Start: 26 @32583 has 3 MA's), (Start: 27 @32577 has 4 MA's), (Start: 35 @32457 has 1 MA's), (37, 32430), (44, 32301), (46, 32280), (50, 32250), (52, 32178), (54, 32142), (55, 32127), (56, 32109), (66, 32025), (81, 31902),

Gene: Ludgate_46 Start: 33809, Stop: 33084, Start Num: 18
Candidate Starts for Ludgate_46:
(11, 33896), (Start: 18 @33809 has 166 MA's), (Start: 27 @33740 has 4 MA's), (Start: 35 @33617 has 1 MA's), (45, 33542), (55, 33374), (56, 33356), (58, 33341), (64, 33302), (68, 33257), (81, 33149),

Gene: Luna18_45 Start: 32111, Stop: 31410, Start Num: 17
Candidate Starts for Luna18_45:
(6, 32249), (15, 32138), (Start: 17 @32111 has 19 MA's), (Start: 27 @32048 has 4 MA's), (Start: 35 @31937 has 1 MA's), (44, 31874), (46, 31853), (48, 31838), (49, 31829), (54, 31715), (55, 31700), (62, 31634), (71, 31547), (83, 31442),

Gene: MCubed_44 Start: 32607, Stop: 31828, Start Num: 18
Candidate Starts for MCubed_44:
(14, 32640), (Start: 18 @32607 has 166 MA's), (Start: 26 @32547 has 3 MA's), (Start: 35 @32424 has 1 MA's), (36, 32415), (44, 32289), (46, 32268), (47, 32262), (50, 32238), (55, 32115), (59, 32079), (62, 32049), (71, 31962), (73, 31956), (79, 31899),

Gene: MaeLinda_46 Start: 33810, Stop: 33085, Start Num: 18
Candidate Starts for MaeLinda_46:
(Start: 18 @33810 has 166 MA's), (Start: 27 @33741 has 4 MA's), (Start: 35 @33618 has 1 MA's), (45, 33543), (55, 33375), (56, 33357), (58, 33342), (64, 33303), (68, 33258), (81, 33150),

Gene: ManRay_45 Start: 33508, Stop: 32783, Start Num: 18
Candidate Starts for ManRay_45:
(14, 33541), (Start: 18 @33508 has 166 MA's), (Start: 27 @33439 has 4 MA's), (Start: 35 @33316 has 1 MA's), (45, 33241), (55, 33073), (56, 33055), (58, 33040), (64, 33001), (68, 32956), (81, 32848),

Gene: Mandalorian_43 Start: 32281, Stop: 31502, Start Num: 18
Candidate Starts for Mandalorian_43:
(Start: 18 @32281 has 166 MA's), (Start: 26 @32221 has 3 MA's), (Start: 27 @32215 has 4 MA's), (Start: 35 @32098 has 1 MA's), (36, 32089), (39, 32041), (44, 31963), (46, 31942), (47, 31936), (49, 31918), (54, 31804), (55, 31789), (57, 31768), (59, 31753), (61, 31741), (63, 31720), (72, 31633), (74, 31615), (75, 31597), (79, 31573), (81, 31564), (82, 31555), (83, 31531),

Gene: Martin_47 Start: 33815, Stop: 33090, Start Num: 18
Candidate Starts for Martin_47:
(Start: 18 @33815 has 166 MA's), (Start: 27 @33746 has 4 MA's), (Start: 35 @33623 has 1 MA's), (45, 33548), (55, 33380), (56, 33362), (58, 33347), (64, 33308), (68, 33263), (81, 33155),

Gene: McGalleon_48 Start: 34793, Stop: 34053, Start Num: 18
Candidate Starts for McGalleon_48:
(Start: 18 @34793 has 166 MA's), (Start: 26 @34733 has 3 MA's), (Start: 27 @34727 has 4 MA's), (33, 34652), (Start: 35 @34604 has 1 MA's), (42, 34562), (55, 34343), (58, 34310), (65, 34268), (81, 34118),

Gene: Mercedes_39 Start: 31146, Stop: 30457, Start Num: 22
Candidate Starts for Mercedes_39:
(Start: 18 @31176 has 166 MA's), (Start: 22 @31146 has 6 MA's), (24, 31119), (Start: 35 @30993 has 1 MA's), (46, 30900), (54, 30762), (55, 30747), (56, 30729), (57, 30726), (71, 30594), (77, 30546),

Gene: Merida02_48 Start: 33740, Stop: 33084, Start Num: 27
Candidate Starts for Merida02_48:
(Start: 18 @33809 has 166 MA's), (Start: 27 @33740 has 4 MA's), (Start: 35 @33617 has 1 MA's), (45, 33542), (55, 33374), (56, 33356), (58, 33341), (64, 33302), (68, 33257), (81, 33149),

Gene: MillyPhilly_46 Start: 33803, Stop: 33078, Start Num: 18
Candidate Starts for MillyPhilly_46:
(Start: 18 @33803 has 166 MA's), (Start: 27 @33734 has 4 MA's), (Start: 35 @33611 has 1 MA's), (45, 33536), (55, 33368), (56, 33350), (58, 33335), (64, 33296), (68, 33251), (81, 33143),

Gene: MiniVolent_42 Start: 31981, Stop: 31385, Start Num: 35
Candidate Starts for MiniVolent_42:

(3, 32500), (4, 32440), (5, 32419), (Start: 18 @32164 has 166 MA's), (Start: 26 @32104 has 3 MA's), (Start: 27 @32098 has 4 MA's), (Start: 35 @31981 has 1 MA's), (36, 31972), (39, 31924), (44, 31846), (47, 31819), (49, 31801), (54, 31687), (57, 31651), (59, 31636), (61, 31624), (62, 31606), (63, 31603), (72, 31516), (74, 31498), (82, 31438),

Gene: MonChoix_43 Start: 33358, Stop: 32630, Start Num: 18
Candidate Starts for MonChoix_43:
(12, 33436), (Start: 18 @33358 has 166 MA's), (25, 33295), (Start: 27 @33286 has 4 MA's), (28, 33283), (Start: 35 @33163 has 1 MA's), (44, 33091), (50, 33043), (54, 32935), (55, 32920), (56, 32902), (58, 32887), (65, 32845), (81, 32695),

Gene: Morrigan_45 Start: 32063, Stop: 31353, Start Num: 17
Candidate Starts for Morrigan_45:
(Start: 17 @32063 has 19 MA's), (30, 31979), (32, 31940), (Start: 35 @31883 has 1 MA's), (44, 31817), (46, 31796), (48, 31781), (49, 31772), (54, 31658), (71, 31490), (83, 31385),

Gene: MrWorldwide_46 Start: 33813, Stop: 33088, Start Num: 18
Candidate Starts for MrWorldwide_46:
(Start: 18 @33813 has 166 MA's), (Start: 27 @33744 has 4 MA's), (Start: 35 @33621 has 1 MA's), (45, 33546), (55, 33378), (56, 33360), (58, 33345), (64, 33306), (68, 33261), (81, 33153),

Gene: Nagem_46 Start: 33806, Stop: 33081, Start Num: 18
Candidate Starts for Nagem_46:
(Start: 18 @33806 has 166 MA's), (20, 33791), (Start: 27 @33737 has 4 MA's), (Start: 35 @33614 has 1 MA's), (45, 33539), (55, 33371), (56, 33353), (58, 33338), (64, 33299), (68, 33254), (81, 33146),

Gene: Nattles_45 Start: 33495, Stop: 32770, Start Num: 18
Candidate Starts for Nattles_45:
(14, 33528), (Start: 18 @33495 has 166 MA's), (Start: 27 @33426 has 4 MA's), (Start: 35 @33303 has 1 MA's), (45, 33228), (55, 33060), (56, 33042), (58, 33027), (64, 32988), (68, 32943), (81, 32835),

Gene: Nebulous_42 Start: 34114, Stop: 33332, Start Num: 18
Candidate Starts for Nebulous_42:
(Start: 18 @34114 has 166 MA's), (Start: 27 @34045 has 4 MA's), (Start: 35 @33928 has 1 MA's), (36, 33916), (39, 33868), (41, 33832), (44, 33790), (46, 33769), (47, 33763), (54, 33631), (57, 33595), (59, 33580), (63, 33547),

Gene: Neferthena_45 Start: 33455, Stop: 32673, Start Num: 18
Candidate Starts for Neferthena_45:
(15, 33485), (16, 33482), (Start: 18 @33455 has 166 MA's), (Start: 27 @33395 has 4 MA's), (Start: 35 @33275 has 1 MA's), (36, 33263), (39, 33215), (46, 33110), (47, 33104), (54, 32972), (59, 32921), (63, 32888),

Gene: NickSell_46 Start: 33816, Stop: 33091, Start Num: 18
Candidate Starts for NickSell_46:
(Start: 18 @33816 has 166 MA's), (Start: 27 @33747 has 4 MA's), (Start: 35 @33624 has 1 MA's), (45, 33549), (55, 33381), (56, 33363), (58, 33348), (64, 33309), (68, 33264), (81, 33156),

Gene: Nucci_43 Start: 32264, Stop: 31485, Start Num: 18
Candidate Starts for Nucci_43:
(Start: 18 @32264 has 166 MA's), (Start: 26 @32204 has 3 MA's), (Start: 27 @32198 has 4 MA's), (Start: 35 @32081 has 1 MA's), (36, 32072), (39, 32024), (44, 31946), (46, 31925), (47, 31919), (49, 31901), (54, 31787), (55, 31772), (57, 31751), (59, 31736), (61, 31724), (63, 31703), (72, 31616), (74,

31598), (75, 31580), (79, 31556), (81, 31547), (82, 31538), (83, 31514),

Gene: Oats_45 Start: 33508, Stop: 32783, Start Num: 18
Candidate Starts for Oats_45:
(14, 33541), (Start: 18 @33508 has 166 MA's), (Start: 27 @33439 has 4 MA's), (Start: 35 @33316 has 1 MA's), (45, 33241), (55, 33073), (56, 33055), (58, 33040), (64, 33001), (68, 32956), (81, 32848),

Gene: OldNelly_47 Start: 33812, Stop: 33087, Start Num: 18
Candidate Starts for OldNelly_47:
(Start: 18 @33812 has 166 MA's), (Start: 27 @33743 has 4 MA's), (Start: 35 @33620 has 1 MA's), (45, 33545), (55, 33377), (56, 33359), (58, 33344), (64, 33305), (68, 33260), (81, 33152),

Gene: Orpington_44 Start: 32746, Stop: 31967, Start Num: 18
Candidate Starts for Orpington_44:
(Start: 18 @32746 has 166 MA's), (Start: 26 @32686 has 3 MA's), (Start: 35 @32563 has 1 MA's), (36, 32554), (44, 32428), (46, 32407), (47, 32401), (50, 32377), (55, 32254), (59, 32218), (62, 32188), (71, 32101), (73, 32095), (79, 32038),

Gene: Oxtober96_47 Start: 33811, Stop: 33086, Start Num: 18
Candidate Starts for Oxtober96_47:
(11, 33898), (Start: 18 @33811 has 166 MA's), (Start: 27 @33742 has 4 MA's), (Start: 35 @33619 has 1 MA's), (45, 33544), (55, 33376), (56, 33358), (58, 33343), (64, 33304), (68, 33259), (81, 33151),

Gene: PSirce_44 Start: 32737, Stop: 31958, Start Num: 18
Candidate Starts for PSirce_44:
(Start: 18 @32737 has 166 MA's), (Start: 26 @32677 has 3 MA's), (Start: 35 @32554 has 1 MA's), (36, 32545), (44, 32419), (46, 32398), (47, 32392), (50, 32368), (55, 32245), (59, 32209), (62, 32179), (71, 32092), (73, 32086), (74, 32071), (79, 32029),

Gene: Pajaza_43 Start: 32217, Stop: 31417, Start Num: 18
Candidate Starts for Pajaza_43:
(9, 32328), (13, 32268), (Start: 18 @32217 has 166 MA's), (Start: 26 @32157 has 3 MA's), (31, 32121), (Start: 35 @32028 has 1 MA's), (37, 32010), (46, 31860), (51, 31761), (52, 31758), (56, 31689), (65, 31632), (69, 31587), (78, 31494), (80, 31485), (81, 31482), (83, 31449),

Gene: Papafritta_45 Start: 33519, Stop: 32794, Start Num: 18
Candidate Starts for Papafritta_45:
(14, 33552), (Start: 18 @33519 has 166 MA's), (Start: 27 @33450 has 4 MA's), (Start: 35 @33327 has 1 MA's), (45, 33252), (55, 33084), (56, 33066), (58, 33051), (64, 33012), (68, 32967), (81, 32859),

Gene: ParleG_46 Start: 33813, Stop: 33088, Start Num: 18
Candidate Starts for ParleG_46:
(Start: 18 @33813 has 166 MA's), (Start: 27 @33744 has 4 MA's), (Start: 35 @33621 has 1 MA's), (45, 33546), (55, 33378), (56, 33360), (58, 33345), (64, 33306), (68, 33261), (81, 33153),

Gene: Peep_46 Start: 33798, Stop: 33073, Start Num: 18
Candidate Starts for Peep_46:
(Start: 18 @33798 has 166 MA's), (Start: 27 @33729 has 4 MA's), (Start: 35 @33606 has 1 MA's), (45, 33531), (55, 33363), (56, 33345), (58, 33330), (64, 33291), (68, 33246), (81, 33138),

Gene: Penta_40 Start: 31163, Stop: 30528, Start Num: 27
Candidate Starts for Penta_40:

(Start: 18 @31223 has 166 MA's), (Start: 27 @31163 has 4 MA's), (34, 31061), (44, 30992), (46, 30971), (48, 30956), (55, 30818), (56, 30800), (57, 30797), (71, 30665), (72, 30662), (77, 30617), (81, 30593), (83, 30560),

Gene: Peppino_46 Start: 33755, Stop: 33027, Start Num: 18
Candidate Starts for Peppino_46:
(Start: 18 @33755 has 166 MA's), (Start: 19 @33749 has 1 MA's), (Start: 22 @33731 has 6 MA's), (Start: 26 @33695 has 3 MA's), (Start: 27 @33689 has 4 MA's), (Start: 35 @33566 has 1 MA's), (45, 33485), (46, 33467), (56, 33299), (58, 33284), (65, 33242), (70, 33170), (81, 33092),

Gene: Phanita_45 Start: 32519, Stop: 31740, Start Num: 18
Candidate Starts for Phanita_45:
(Start: 18 @32519 has 166 MA's), (Start: 26 @32459 has 3 MA's), (Start: 35 @32336 has 1 MA's), (36, 32327), (46, 32180), (47, 32174), (50, 32150), (55, 32027), (59, 31991), (62, 31961), (71, 31874), (73, 31868), (79, 31811),

Gene: Pherbot_43 Start: 32544, Stop: 31732, Start Num: 18
Candidate Starts for Pherbot_43:
(Start: 18 @32544 has 166 MA's), (Start: 26 @32484 has 3 MA's), (Start: 27 @32478 has 4 MA's), (Start: 35 @32358 has 1 MA's), (37, 32328), (46, 32175), (48, 32160), (49, 32151), (51, 32076), (54, 32037), (56, 32004), (66, 31920), (70, 31875), (77, 31821), (81, 31797),

Gene: Pherferi_46 Start: 33806, Stop: 33081, Start Num: 18
Candidate Starts for Pherferi_46:
(Start: 18 @33806 has 166 MA's), (Start: 27 @33737 has 4 MA's), (Start: 35 @33614 has 1 MA's), (45, 33539), (55, 33371), (56, 33353), (58, 33338), (64, 33299), (68, 33254), (81, 33146),

Gene: Phiderman_46 Start: 33803, Stop: 33078, Start Num: 18
Candidate Starts for Phiderman_46:
(Start: 18 @33803 has 166 MA's), (Start: 27 @33734 has 4 MA's), (Start: 35 @33611 has 1 MA's), (45, 33536), (55, 33368), (56, 33350), (58, 33335), (64, 33296), (68, 33251), (81, 33143),

Gene: PhillyPhantom_46 Start: 33556, Stop: 33017, Start Num: 35
Candidate Starts for PhillyPhantom_46:
(Start: 18 @33745 has 166 MA's), (Start: 22 @33721 has 6 MA's), (Start: 26 @33685 has 3 MA's), (Start: 27 @33679 has 4 MA's), (Start: 35 @33556 has 1 MA's), (45, 33475), (46, 33457), (56, 33289), (58, 33274), (65, 33232), (70, 33160), (81, 33082),

Gene: Phireproof_46 Start: 33812, Stop: 33087, Start Num: 18
Candidate Starts for Phireproof_46:
(Start: 18 @33812 has 166 MA's), (Start: 27 @33743 has 4 MA's), (Start: 35 @33620 has 1 MA's), (45, 33545), (55, 33377), (56, 33359), (58, 33344), (64, 33305), (68, 33260), (81, 33152),

Gene: PhredFlintston_46 Start: 33806, Stop: 33081, Start Num: 18
Candidate Starts for PhredFlintston_46:
(Start: 18 @33806 has 166 MA's), (Start: 27 @33737 has 4 MA's), (Start: 35 @33614 has 1 MA's), (45, 33539), (55, 33371), (56, 33353), (58, 33338), (64, 33299), (68, 33254), (81, 33146),

Gene: Phriends_46 Start: 33812, Stop: 33087, Start Num: 18
Candidate Starts for Phriends_46:
(Start: 18 @33812 has 166 MA's), (Start: 27 @33743 has 4 MA's), (Start: 35 @33620 has 1 MA's), (45, 33545), (55, 33377), (56, 33359), (58, 33344), (64, 33305), (68, 33260), (81, 33152),

Gene: Pikmin_43 Start: 32217, Stop: 31417, Start Num: 18
Candidate Starts for Pikmin_43:
(9, 32328), (13, 32268), (Start: 18 @32217 has 166 MA's), (Start: 26 @32157 has 3 MA's), (31, 32121), (Start: 35 @32028 has 1 MA's), (37, 32010), (46, 31860), (51, 31761), (52, 31758), (56, 31689), (65, 31632), (69, 31587), (78, 31494), (80, 31485), (81, 31482), (83, 31449),

Gene: Pocket_45 Start: 33535, Stop: 32810, Start Num: 18
Candidate Starts for Pocket_45:
(14, 33568), (Start: 18 @33535 has 166 MA's), (Start: 27 @33466 has 4 MA's), (Start: 35 @33343 has 1 MA's), (45, 33268), (55, 33100), (56, 33082), (58, 33067), (64, 33028), (68, 32983), (81, 32875),

Gene: PrincePhergus_43 Start: 32560, Stop: 31748, Start Num: 18
Candidate Starts for PrincePhergus_43:
(Start: 18 @32560 has 166 MA's), (Start: 26 @32500 has 3 MA's), (Start: 27 @32494 has 4 MA's), (Start: 35 @32374 has 1 MA's), (37, 32344), (46, 32191), (49, 32167), (51, 32092), (54, 32053), (56, 32020), (66, 31936), (70, 31891), (77, 31837), (81, 31813), (83, 31780),

Gene: PuppyEggo_46 Start: 33813, Stop: 33088, Start Num: 18
Candidate Starts for PuppyEggo_46:
(11, 33900), (Start: 18 @33813 has 166 MA's), (Start: 27 @33744 has 4 MA's), (Start: 35 @33621 has 1 MA's), (45, 33546), (55, 33378), (56, 33360), (58, 33345), (64, 33306), (68, 33261), (81, 33153),

Gene: QuadZero_44 Start: 31373, Stop: 30591, Start Num: 17
Candidate Starts for QuadZero_44:
(Start: 17 @31373 has 19 MA's), (Start: 27 @31307 has 4 MA's), (Start: 35 @31187 has 1 MA's), (36, 31178), (39, 31130), (46, 31031), (47, 31025), (55, 30878), (57, 30857), (62, 30812), (63, 30809), (72, 30722), (79, 30662),

Gene: Quartz_44 Start: 32394, Stop: 31615, Start Num: 18
Candidate Starts for Quartz_44:
(Start: 18 @32394 has 166 MA's), (Start: 26 @32334 has 3 MA's), (Start: 27 @32328 has 4 MA's), (Start: 35 @32211 has 1 MA's), (36, 32202), (39, 32154), (44, 32076), (46, 32055), (47, 32049), (49, 32031), (54, 31917), (55, 31902), (57, 31881), (59, 31866), (61, 31854), (63, 31833), (72, 31746), (74, 31728), (75, 31710), (79, 31686), (82, 31668),

Gene: Raccoon_46 Start: 33712, Stop: 32984, Start Num: 18
Candidate Starts for Raccoon_46:
(Start: 18 @33712 has 166 MA's), (Start: 22 @33688 has 6 MA's), (Start: 26 @33652 has 3 MA's), (Start: 27 @33646 has 4 MA's), (Start: 35 @33523 has 1 MA's), (45, 33442), (46, 33424), (56, 33256), (58, 33241), (65, 33199), (70, 33127), (81, 33049),

Gene: Rapheph_46 Start: 33806, Stop: 33081, Start Num: 18
Candidate Starts for Rapheph_46:
(Start: 18 @33806 has 166 MA's), (Start: 27 @33737 has 4 MA's), (Start: 35 @33614 has 1 MA's), (45, 33539), (55, 33371), (56, 33353), (58, 33338), (64, 33299), (68, 33254), (81, 33146),

Gene: Raptor_46 Start: 33813, Stop: 33088, Start Num: 18
Candidate Starts for Raptor_46:
(11, 33900), (Start: 18 @33813 has 166 MA's), (Start: 27 @33744 has 4 MA's), (Start: 35 @33621 has 1 MA's), (45, 33546), (55, 33378), (56, 33360), (58, 33345), (64, 33306), (68, 33261), (81, 33153),

Gene: Redfield_46 Start: 33763, Stop: 33035, Start Num: 18
Candidate Starts for Redfield_46:

(Start: 18 @33763 has 166 MA's), (Start: 19 @33757 has 1 MA's), (Start: 22 @33739 has 6 MA's), (Start: 26 @33703 has 3 MA's), (Start: 27 @33697 has 4 MA's), (Start: 35 @33574 has 1 MA's), (45, 33493), (46, 33475), (56, 33307), (58, 33292), (65, 33250), (70, 33178), (81, 33100),

Gene: RenegadeRaider_46 Start: 32615, Stop: 31803, Start Num: 18
Candidate Starts for RenegadeRaider_46:
(Start: 18 @32615 has 166 MA's), (Start: 26 @32555 has 3 MA's), (Start: 27 @32549 has 4 MA's), (Start: 35 @32429 has 1 MA's), (37, 32399), (46, 32246), (48, 32231), (49, 32222), (51, 32147), (54, 32108), (56, 32075), (66, 31991), (81, 31868), (83, 31835),

Gene: Renzie_46 Start: 33801, Stop: 33076, Start Num: 18
Candidate Starts for Renzie_46:
(Start: 18 @33801 has 166 MA's), (Start: 27 @33732 has 4 MA's), (Start: 35 @33609 has 1 MA's), (45, 33534), (55, 33366), (56, 33348), (58, 33333), (64, 33294), (68, 33249), (81, 33141),

Gene: Riyhil_46 Start: 33816, Stop: 33091, Start Num: 18
Candidate Starts for Riyhil_46:
(Start: 18 @33816 has 166 MA's), (Start: 27 @33747 has 4 MA's), (Start: 35 @33624 has 1 MA's), (45, 33549), (55, 33381), (56, 33363), (58, 33348), (64, 33309), (68, 33264), (81, 33156),

Gene: Robinson_46 Start: 33735, Stop: 33079, Start Num: 27
Candidate Starts for Robinson_46:
(Start: 18 @33804 has 166 MA's), (Start: 27 @33735 has 4 MA's), (Start: 35 @33612 has 1 MA's), (45, 33537), (55, 33369), (56, 33351), (58, 33336), (64, 33297), (68, 33252), (81, 33144),

Gene: Rog141_45 Start: 33498, Stop: 32773, Start Num: 18
Candidate Starts for Rog141_45:
(14, 33531), (Start: 18 @33498 has 166 MA's), (Start: 27 @33429 has 4 MA's), (Start: 35 @33306 has 1 MA's), (45, 33231), (55, 33063), (56, 33045), (58, 33030), (64, 32991), (68, 32946), (81, 32838),

Gene: RosieMae_45 Start: 33553, Stop: 32828, Start Num: 18
Candidate Starts for RosieMae_45:
(14, 33586), (Start: 18 @33553 has 166 MA's), (Start: 27 @33484 has 4 MA's), (Start: 35 @33361 has 1 MA's), (45, 33286), (55, 33118), (56, 33100), (58, 33085), (64, 33046), (68, 33001), (81, 32893),

Gene: SJay_46 Start: 33807, Stop: 33082, Start Num: 18
Candidate Starts for SJay_46:
(Start: 18 @33807 has 166 MA's), (Start: 27 @33738 has 4 MA's), (Start: 35 @33615 has 1 MA's), (45, 33540), (55, 33372), (56, 33354), (58, 33339), (64, 33300), (68, 33255), (81, 33147),

Gene: Sansa_43 Start: 32812, Stop: 32033, Start Num: 18
Candidate Starts for Sansa_43:
(14, 32845), (Start: 18 @32812 has 166 MA's), (Start: 26 @32752 has 3 MA's), (Start: 35 @32629 has 1 MA's), (36, 32620), (44, 32494), (46, 32473), (47, 32467), (50, 32443), (55, 32320), (59, 32284), (62, 32254), (71, 32167), (79, 32104),

Gene: Saratos_44 Start: 32567, Stop: 31788, Start Num: 18
Candidate Starts for Saratos_44:
(Start: 18 @32567 has 166 MA's), (Start: 26 @32507 has 3 MA's), (Start: 35 @32384 has 1 MA's), (36, 32375), (44, 32249), (46, 32228), (47, 32222), (50, 32198), (55, 32075), (59, 32039), (62, 32009), (71, 31922), (73, 31916), (74, 31901), (79, 31859),

Gene: Schimmels22_41 Start: 31619, Stop: 30921, Start Num: 18

Candidate Starts for Schimmels22_41:
(Start: 18 @31619 has 166 MA's), (Start: 27 @31559 has 4 MA's), (34, 31457), (44, 31385), (46, 31364), (48, 31349), (54, 31226), (55, 31211), (56, 31193), (71, 31058), (77, 31010), (81, 30986), (83, 30953),

Gene: Schnapsidee_46 Start: 33770, Stop: 33042, Start Num: 18
Candidate Starts for Schnapsidee_46:
(Start: 18 @33770 has 166 MA's), (Start: 19 @33764 has 1 MA's), (Start: 22 @33746 has 6 MA's), (Start: 26 @33710 has 3 MA's), (Start: 27 @33704 has 4 MA's), (Start: 35 @33581 has 1 MA's), (45, 33500), (46, 33482), (56, 33314), (58, 33299), (65, 33257), (70, 33185), (81, 33107),

Gene: Schubert_43 Start: 32437, Stop: 31721, Start Num: 18
Candidate Starts for Schubert_43:
(15, 32467), (Start: 18 @32437 has 166 MA's), (Start: 26 @32377 has 3 MA's), (Start: 35 @32248 has 1 MA's), (40, 32215), (44, 32185), (46, 32164), (54, 32026), (55, 32011), (62, 31945), (65, 31936), (77, 31810), (81, 31786),

Gene: Scissor2024_42 Start: 31206, Stop: 30568, Start Num: 27
Candidate Starts for Scissor2024_42:
(Start: 18 @31266 has 166 MA's), (Start: 27 @31206 has 4 MA's), (34, 31104), (44, 31032), (46, 31011), (48, 30996), (54, 30873), (55, 30858), (56, 30840), (71, 30705), (72, 30702), (77, 30657), (81, 30633), (83, 30600),

Gene: Sedgewig_45 Start: 33496, Stop: 32771, Start Num: 18
Candidate Starts for Sedgewig_45:
(14, 33529), (Start: 18 @33496 has 166 MA's), (Start: 27 @33427 has 4 MA's), (Start: 35 @33304 has 1 MA's), (45, 33229), (55, 33061), (56, 33043), (58, 33028), (64, 32989), (68, 32944), (81, 32836),

Gene: ShaiHulud_46 Start: 33822, Stop: 33097, Start Num: 18
Candidate Starts for ShaiHulud_46:
(11, 33909), (Start: 18 @33822 has 166 MA's), (Start: 27 @33753 has 4 MA's), (Start: 35 @33630 has 1 MA's), (45, 33555), (55, 33387), (56, 33369), (58, 33354), (64, 33315), (68, 33270), (81, 33162),

Gene: Shamu_45 Start: 32746, Stop: 31967, Start Num: 18
Candidate Starts for Shamu_45:
(Start: 18 @32746 has 166 MA's), (Start: 26 @32686 has 3 MA's), (Start: 35 @32563 has 1 MA's), (36, 32554), (44, 32428), (46, 32407), (47, 32401), (50, 32377), (55, 32254), (59, 32218), (62, 32188), (71, 32101), (73, 32095), (79, 32038),

Gene: Shee_46 Start: 33803, Stop: 33078, Start Num: 18
Candidate Starts for Shee_46:
(Start: 18 @33803 has 166 MA's), (Start: 27 @33734 has 4 MA's), (Start: 35 @33611 has 1 MA's), (45, 33536), (55, 33368), (56, 33350), (58, 33335), (64, 33296), (68, 33251), (81, 33143),

Gene: Sinatra_44 Start: 32555, Stop: 31743, Start Num: 18
Candidate Starts for Sinatra_44:
(Start: 18 @32555 has 166 MA's), (Start: 26 @32495 has 3 MA's), (Start: 27 @32489 has 4 MA's), (Start: 35 @32369 has 1 MA's), (37, 32339), (46, 32186), (48, 32171), (49, 32162), (51, 32087), (54, 32048), (56, 32015), (66, 31931), (70, 31886), (77, 31832), (81, 31808),

Gene: SirVictor_44 Start: 32628, Stop: 31822, Start Num: 18
Candidate Starts for SirVictor_44:

(8, 32742), (Start: 18 @32628 has 166 MA's), (Start: 26 @32568 has 3 MA's), (Start: 27 @32562 has 4 MA's), (Start: 35 @32442 has 1 MA's), (37, 32415), (44, 32286), (46, 32265), (50, 32235), (52, 32163), (54, 32127), (55, 32112), (56, 32094), (66, 32010), (81, 31887),

Gene: SoilGremlin_47 Start: 33809, Stop: 33084, Start Num: 18
Candidate Starts for SoilGremlin_47:
(Start: 18 @33809 has 166 MA's), (Start: 27 @33740 has 4 MA's), (Start: 35 @33617 has 1 MA's), (45, 33542), (55, 33374), (56, 33356), (58, 33341), (64, 33302), (68, 33257), (81, 33149),

Gene: SolidSnake_48 Start: 33743, Stop: 33087, Start Num: 27
Candidate Starts for SolidSnake_48:
(Start: 18 @33812 has 166 MA's), (Start: 27 @33743 has 4 MA's), (Start: 35 @33620 has 1 MA's), (45, 33545), (55, 33377), (56, 33359), (58, 33344), (64, 33305), (68, 33260), (81, 33152),

Gene: SonOfLevi_46 Start: 33526, Stop: 32801, Start Num: 18
Candidate Starts for SonOfLevi_46:
(14, 33559), (Start: 18 @33526 has 166 MA's), (Start: 27 @33457 has 4 MA's), (Start: 35 @33334 has 1 MA's), (45, 33259), (55, 33091), (56, 33073), (58, 33058), (64, 33019), (68, 32974), (81, 32866),

Gene: Soror1_45 Start: 33661, Stop: 32933, Start Num: 18
Candidate Starts for Soror1_45:
(Start: 18 @33661 has 166 MA's), (Start: 19 @33655 has 1 MA's), (Start: 22 @33637 has 6 MA's), (Start: 26 @33601 has 3 MA's), (Start: 27 @33595 has 4 MA's), (Start: 35 @33472 has 1 MA's), (45, 33391), (46, 33373), (56, 33205), (58, 33190), (65, 33148), (70, 33076), (81, 32998),

Gene: Stanktossa_46 Start: 33806, Stop: 33081, Start Num: 18
Candidate Starts for Stanktossa_46:
(Start: 18 @33806 has 166 MA's), (Start: 27 @33737 has 4 MA's), (Start: 35 @33614 has 1 MA's), (45, 33539), (55, 33371), (56, 33353), (58, 33338), (64, 33299), (68, 33254), (81, 33146),

Gene: StingRay_45 Start: 33511, Stop: 32786, Start Num: 18
Candidate Starts for StingRay_45:
(14, 33544), (Start: 18 @33511 has 166 MA's), (Start: 27 @33442 has 4 MA's), (Start: 35 @33319 has 1 MA's), (45, 33244), (55, 33076), (56, 33058), (58, 33043), (64, 33004), (68, 32959), (81, 32851),

Gene: StirfryIV_45 Start: 33507, Stop: 32782, Start Num: 18
Candidate Starts for StirfryIV_45:
(14, 33540), (Start: 18 @33507 has 166 MA's), (Start: 27 @33438 has 4 MA's), (Start: 35 @33315 has 1 MA's), (45, 33240), (55, 33072), (56, 33054), (58, 33039), (64, 33000), (68, 32955), (81, 32847),

Gene: Stormbreaker8_45 Start: 33622, Stop: 32918, Start Num: 22
Candidate Starts for Stormbreaker8_45:
(Start: 18 @33646 has 166 MA's), (Start: 19 @33640 has 1 MA's), (Start: 22 @33622 has 6 MA's), (Start: 26 @33586 has 3 MA's), (Start: 27 @33580 has 4 MA's), (Start: 35 @33457 has 1 MA's), (45, 33376), (46, 33358), (56, 33190), (58, 33175), (65, 33133), (70, 33061), (81, 32983),

Gene: Strathdee_46 Start: 33812, Stop: 33087, Start Num: 18
Candidate Starts for Strathdee_46:
(11, 33899), (Start: 18 @33812 has 166 MA's), (Start: 27 @33743 has 4 MA's), (Start: 35 @33620 has 1 MA's), (45, 33545), (55, 33377), (56, 33359), (58, 33344), (64, 33305), (68, 33260), (81, 33152),

Gene: Superfresh_46 Start: 33801, Stop: 33076, Start Num: 18
Candidate Starts for Superfresh_46:

(Start: 18 @33801 has 166 MA's), (Start: 27 @33732 has 4 MA's), (Start: 35 @33609 has 1 MA's), (45, 33534), (55, 33366), (56, 33348), (58, 33333), (64, 33294), (68, 33249), (81, 33141),

Gene: Symere_45 Start: 33506, Stop: 32781, Start Num: 18
Candidate Starts for Symere_45:
(14, 33539), (Start: 18 @33506 has 166 MA's), (Start: 27 @33437 has 4 MA's), (Start: 35 @33314 has 1 MA's), (45, 33239), (55, 33071), (56, 33053), (58, 33038), (64, 32999), (68, 32954), (81, 32846),

Gene: TatarkaPM_46 Start: 33816, Stop: 33091, Start Num: 18
Candidate Starts for TatarkaPM_46:
(Start: 18 @33816 has 166 MA's), (Start: 27 @33747 has 4 MA's), (Start: 35 @33624 has 1 MA's), (45, 33549), (55, 33381), (56, 33363), (58, 33348), (64, 33309), (68, 33264), (81, 33156),

Gene: Teagan_46 Start: 33806, Stop: 33081, Start Num: 18
Candidate Starts for Teagan_46:
(11, 33893), (Start: 18 @33806 has 166 MA's), (Start: 27 @33737 has 4 MA's), (Start: 35 @33614 has 1 MA's), (45, 33539), (55, 33371), (56, 33353), (58, 33338), (64, 33299), (68, 33254), (81, 33146),

Gene: TeddyBear_45 Start: 33508, Stop: 32783, Start Num: 18
Candidate Starts for TeddyBear_45:
(14, 33541), (Start: 18 @33508 has 166 MA's), (Start: 27 @33439 has 4 MA's), (Start: 35 @33316 has 1 MA's), (45, 33241), (55, 33073), (56, 33055), (58, 33040), (64, 33001), (68, 32956), (81, 32848),

Gene: Tenda_45 Start: 33506, Stop: 32781, Start Num: 18
Candidate Starts for Tenda_45:
(14, 33539), (Start: 18 @33506 has 166 MA's), (Start: 27 @33437 has 4 MA's), (Start: 35 @33314 has 1 MA's), (45, 33239), (55, 33071), (56, 33053), (58, 33038), (64, 32999), (68, 32954), (81, 32846),

Gene: Thompsone_46 Start: 33813, Stop: 33088, Start Num: 18
Candidate Starts for Thompsone_46:
(11, 33900), (Start: 18 @33813 has 166 MA's), (Start: 27 @33744 has 4 MA's), (Start: 35 @33621 has 1 MA's), (45, 33546), (55, 33378), (56, 33360), (58, 33345), (64, 33306), (68, 33261), (81, 33153),

Gene: Thorongil_46 Start: 33327, Stop: 32602, Start Num: 18
Candidate Starts for Thorongil_46:
(11, 33414), (Start: 18 @33327 has 166 MA's), (Start: 27 @33258 has 4 MA's), (Start: 35 @33135 has 1 MA's), (45, 33060), (55, 32892), (56, 32874), (58, 32859), (64, 32820), (68, 32775), (81, 32667),

Gene: TinSulphur_47 Start: 33812, Stop: 33087, Start Num: 18
Candidate Starts for TinSulphur_47:
(Start: 18 @33812 has 166 MA's), (Start: 27 @33743 has 4 MA's), (Start: 35 @33620 has 1 MA's), (45, 33545), (55, 33377), (56, 33359), (58, 33344), (64, 33305), (68, 33260), (81, 33152),

Gene: Tinyman4_41 Start: 31320, Stop: 30547, Start Num: 18
Candidate Starts for Tinyman4_41:
(Start: 18 @31320 has 166 MA's), (34, 31158), (38, 31140), (42, 31041), (44, 31011), (46, 30990), (54, 30852), (55, 30837), (56, 30819), (57, 30816), (71, 30684), (72, 30681), (77, 30636), (81, 30612), (83, 30579),

Gene: TwoBits_43 Start: 31706, Stop: 30993, Start Num: 17
Candidate Starts for TwoBits_43:
(Start: 17 @31706 has 19 MA's), (Start: 27 @31640 has 4 MA's), (32, 31586), (Start: 35 @31529 has 1 MA's), (46, 31436), (48, 31421), (54, 31298), (55, 31283), (57, 31262), (67, 31172), (71, 31130), (77,

31082),

Gene: Vafari_44 Start: 31229, Stop: 30447, Start Num: 17
Candidate Starts for Vafari_44:
(Start: 17 @31229 has 19 MA's), (Start: 27 @31163 has 4 MA's), (Start: 35 @31043 has 1 MA's), (36, 31034), (39, 30986), (46, 30887), (47, 30881), (55, 30734), (57, 30713), (62, 30668), (63, 30665), (72, 30578), (79, 30518),

Gene: Velene_46 Start: 33811, Stop: 33086, Start Num: 18
Candidate Starts for Velene_46:
(11, 33898), (Start: 18 @33811 has 166 MA's), (Start: 27 @33742 has 4 MA's), (Start: 35 @33619 has 1 MA's), (45, 33544), (55, 33376), (56, 33358), (58, 33343), (64, 33304), (68, 33259), (81, 33151),

Gene: Vispistious_46 Start: 33813, Stop: 33088, Start Num: 18
Candidate Starts for Vispistious_46:
(11, 33900), (Start: 18 @33813 has 166 MA's), (Start: 27 @33744 has 4 MA's), (Start: 35 @33621 has 1 MA's), (45, 33546), (55, 33378), (56, 33360), (58, 33345), (64, 33306), (68, 33261), (81, 33153),

Gene: Wardwill_46 Start: 31405, Stop: 30623, Start Num: 17
Candidate Starts for Wardwill_46:
(Start: 17 @31405 has 19 MA's), (Start: 27 @31339 has 4 MA's), (Start: 35 @31219 has 1 MA's), (36, 31210), (39, 31162), (46, 31063), (47, 31057), (55, 30910), (57, 30889), (62, 30844), (63, 30841), (72, 30754), (79, 30694),

Gene: WestPM_40 Start: 31386, Stop: 30691, Start Num: 18
Candidate Starts for WestPM_40:
(Start: 18 @31386 has 166 MA's), (Start: 27 @31326 has 4 MA's), (34, 31224), (44, 31155), (46, 31134), (48, 31119), (55, 30981), (56, 30963), (57, 30960), (71, 30828), (72, 30825), (77, 30780), (81, 30756), (83, 30723),

Gene: WildNOut_46 Start: 33809, Stop: 33084, Start Num: 18
Candidate Starts for WildNOut_46:
(11, 33896), (Start: 18 @33809 has 166 MA's), (Start: 27 @33740 has 4 MA's), (Start: 35 @33617 has 1 MA's), (45, 33542), (55, 33374), (56, 33356), (58, 33341), (64, 33302), (68, 33257), (81, 33149),

Gene: WilliamStrong_44 Start: 32618, Stop: 31935, Start Num: 21
Candidate Starts for WilliamStrong_44:
(Start: 17 @32645 has 19 MA's), (Start: 21 @32618 has 2 MA's), (Start: 27 @32576 has 4 MA's), (28, 32573), (Start: 35 @32465 has 1 MA's), (41, 32429), (44, 32399), (46, 32378), (53, 32255), (54, 32240), (55, 32225), (62, 32159), (65, 32150), (71, 32072),

Gene: Winzigespinne_45 Start: 33494, Stop: 32769, Start Num: 18
Candidate Starts for Winzigespinne_45:
(14, 33527), (Start: 18 @33494 has 166 MA's), (Start: 27 @33425 has 4 MA's), (Start: 35 @33302 has 1 MA's), (45, 33227), (55, 33059), (56, 33041), (58, 33026), (64, 32987), (68, 32942), (81, 32834),

Gene: Xebius_44 Start: 32387, Stop: 31791, Start Num: 35
Candidate Starts for Xebius_44:
(Start: 18 @32570 has 166 MA's), (Start: 26 @32510 has 3 MA's), (Start: 35 @32387 has 1 MA's), (36, 32378), (44, 32252), (46, 32231), (47, 32225), (50, 32201), (55, 32078), (59, 32042), (62, 32012), (71, 31925), (73, 31919), (79, 31862),

Gene: YuuY_44 Start: 32861, Stop: 32082, Start Num: 18

Candidate Starts for YuuY_44:
(Start: 18 @32861 has 166 MA's), (Start: 26 @32801 has 3 MA's), (Start: 27 @32795 has 4 MA's), (32, 32732), (Start: 35 @32678 has 1 MA's), (36, 32669), (39, 32621), (44, 32543), (49, 32498), (54, 32384), (55, 32369), (61, 32321), (63, 32300), (72, 32213), (74, 32195), (75, 32177), (79, 32153), (81, 32144),

Gene: Zada_47 Start: 33713, Stop: 33057, Start Num: 27
Candidate Starts for Zada_47:
(Start: 18 @33782 has 166 MA's), (Start: 27 @33713 has 4 MA's), (Start: 35 @33590 has 1 MA's), (45, 33515), (55, 33347), (56, 33329), (58, 33314), (64, 33275), (68, 33230), (81, 33122),

Gene: Zayuliv_44 Start: 31844, Stop: 31062, Start Num: 17
Candidate Starts for Zayuliv_44:
(Start: 17 @31844 has 19 MA's), (Start: 27 @31778 has 4 MA's), (Start: 35 @31658 has 1 MA's), (36, 31649), (39, 31601), (46, 31502), (47, 31496), (55, 31349), (57, 31328), (62, 31283), (63, 31280), (72, 31193), (79, 31133),

Gene: Zenitsu_44 Start: 32612, Stop: 31833, Start Num: 18
Candidate Starts for Zenitsu_44:
(14, 32645), (Start: 18 @32612 has 166 MA's), (Start: 26 @32552 has 3 MA's), (Start: 35 @32429 has 1 MA's), (36, 32420), (44, 32294), (46, 32273), (47, 32267), (50, 32243), (55, 32120), (59, 32084), (62, 32054), (71, 31967), (73, 31961), (79, 31904),

Gene: Zepp_44 Start: 31278, Stop: 30496, Start Num: 17
Candidate Starts for Zepp_44:
(Start: 17 @31278 has 19 MA's), (Start: 27 @31212 has 4 MA's), (Start: 35 @31092 has 1 MA's), (36, 31083), (39, 31035), (46, 30936), (47, 30930), (55, 30783), (57, 30762), (62, 30717), (63, 30714), (72, 30627), (79, 30567),