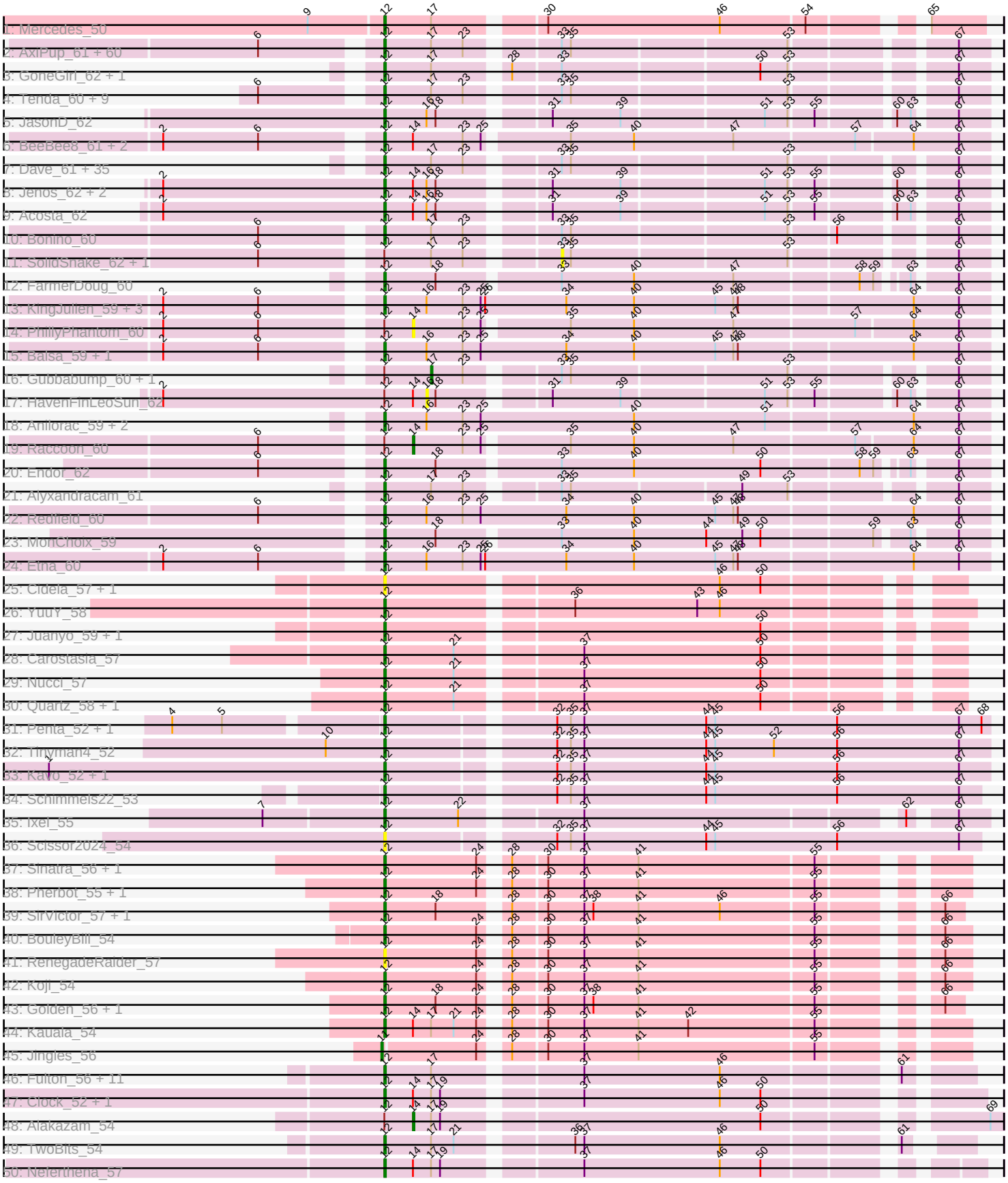
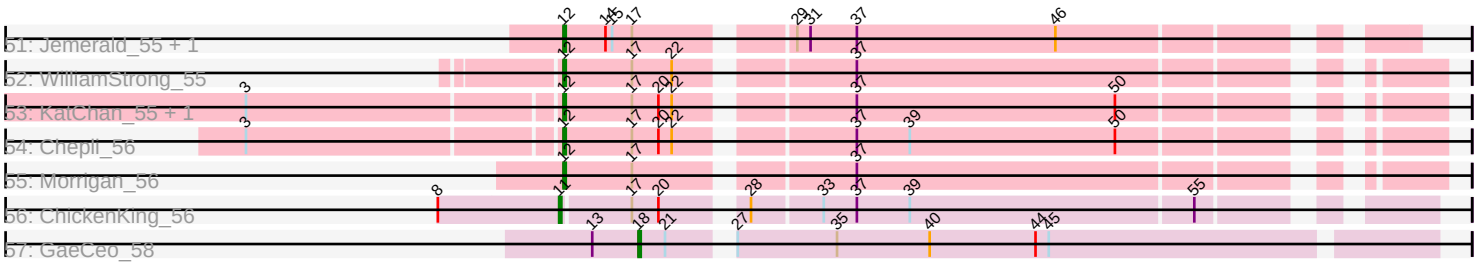
Pham 341795


1: Mercedes_50
2: AxlPup_61 + 60
3: GoneGirl_62 + 1
4: Tenda_60 + 9
5: JasonD_62
6: BeeBee8_61 + 2
7: Dave_61 + 35
8: Jenos_62 + 2
9: Acosta_62
10: Bonino_60
11: SolidSnake_62 + 1
12: FarmerDoug_60
13: KingJulien_59 + 3
14: PhillyPhantom_60
15: Balsa_59 + 1
16: Gubbabump_60 + 1
17: HavenFinLeoSun_62
18: Amiorac_59 + 2
19: Raccoon_60
20: Endor_62
21: Alyxandracam_61
22: Redfield_60
23: MonChoix_59
24: Etna_60
25: Cidela_57 + 1
26: YuuY_58
27: Juanyo_59 + 1
28: Carostasia_57
29: Nucci_57
30: Quartz_58 + 1
31: Penta_52 + 1
32: Tinyman4_52
33: Kavo_52 + 1
34: Schimmels22_53
35: Ixel_55
36: Scissor2024_54
37: Sinatra_56 + 1
38: Pherbot_55 + 1
39: SirVictor_57 + 1
40: BouleyBill_54
41: RenegadeRaider_57
42: Koji_54
43: Golden_56 + 1
44: Kauala_54
45: Jingles_56
46: Fulton_56 + 11
47: Clock_52 + 1
48: Alakazam_54
49: TwoBits_54
50: Neferthena_57

Pham 341795


51: Jemerald_55 + 1
52: WilliamStrong_55
53: KatChan_55 + 1
54: Chepil_56
55: Morrigan_56
56: ChickenKing_56
57: GaeCeo_58

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 341795 Report

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

Pham number 341795 has 197 members, 15 are drafts.

Phages represented in each track:
• Track 1 : Mercedes_50
• Track 2 : AxiPup_61, Convict_61, Baines_60, Phriends_60, Byron23_62, Stanktossa_60, HankSprout_61, Pherferi_61, Chako_60, ParleG_61, Knox_61, GoingMerry_61, Dothraki_61, Raptor_61, NickSell_61, OldNelly_61, Martin_62, BonesMcCoy_61, HungryHenry_60, ShaiHulud_61, Kale_60, Bandik_61, Zada_62, MrWorldwide_61, Thorongil_61, StirfryIV_60, Ioannes_61, SJay_61, Gelo_60, Benjalauren_61, Duocatuli_60, BeautPeep30_61, Phiderman_61, StingRay_60, Inventa_61, Phireproof_61, SoilGremlin_61, Jerbirus_62, Robinson_61, HanSolo_60, Ilzat_60, JasperRussell_60, Shee_61, KannH_60, PhredFlintston_61, TinSulphur_62, Velene_61, Clancy_60, CoraRita_60, MillyPhilly_61, Delphidian_60, KellyGreen_62, Gargoyle_61, TatarkaPM_61, Kurt1_61, Winzigespinne_60, Papafritta_60, Nagem_61, Vispistious_61, Rog141_60, PuppyEggo_61
• Track 3 : GoneGirl_62, GardenB_61
• Track 4 : Tenda_60, Oats_60, Gershwin_60, Christoph_60, Espinosa_60, TeddyBear_60, Aubergine_60, Teagan_61, Asta_60, Janus167_60
• Track 5 : JasonD_62
• Track 6 : BeeBee8_61, Soror1_59, Hamlet_60
• Track 7 : Dave_61, RosieMae_60, Calix_60, Den3_61, WildNOut_61, Blage_61, BigRedClifford_61, Superfresh_61, MaeLinda_61, JeriBeth_60, Erla_60, Renzie_61, Greys_61, Sedgewig_60, ManRay_60, Etta_60, Klimt_61, Strathdee_61, Pocket_60, Oxtober96_62, Lovelyunicorn_61, Exploradora_60, Ludgate_61, Rapheph_61, AranulaLuti_60, SonOfLevi_61, Symere_60, Riyhil_61, Nattles_60, Kouch_61, Garey24_61, Chamuel_60, AlexAdler_61, Antoinette_61, Thompsone_61, Peep_61
• Track 8 : Jenos_62, CarisSwetlik_60, McGalleon_61
• Track 9 : Acosta_62
• Track 10 : Bonino_60
• Track 11 : SolidSnake_62, Merida02_62
• Track 12 : FarmerDoug_60
• Track 13 : KingJulien_59, Leafus_60, Stormbreaker8_59, Peppino_60
• Track 14 : PhillyPhantom_60
• Track 15 : Balsa_59, Schnapsidee_60
• Track 16 : Gubbabump_60, Figueroism_61
• Track 17 : HavenFinLeoSun_62
• Track 18 : Anilorac_59, Agente005_60, Aleyra_60
• Track 19 : Raccoon_60
• Track 20 : Endor_62
• Track 21 : Alyxandracam_61

• Track 22 : Redfield_60
• Track 23 : MonChoix_59
• Track 24 : Etna_60
• Track 25 : Cidela_57, Fabyndrax_57
• Track 26 : YuuY_58
• Track 27 : Juanyo_59, MiniVolent_58
• Track 28 : Carostasia_57
• Track 29 : Nucci_57
• Track 30 : Quartz_58, Mandalorian_57
• Track 31 : Penta_52, WestPM_52
• Track 32 : Tinyman4_52
• Track 33 : Kavo_52, HerculesXL_53
• Track 34 : Schimmels22_53
• Track 35 : Ixel_55
• Track 36 : Scissor2024_54
• Track 37 : Sinatra_56, PrincePhergus_55
• Track 38 : Pherbot_55, Bustleton_55
• Track 39 : SirVictor_57, Guetzie_57
• Track 40 : BouleyBill_54
• Track 41 : RenegadeRaider_57
• Track 42 : Koji_54
• Track 43 : Golden_56, Lucky3_56
• Track 44 : Kauala_54
• Track 45 : Jingles_56
• Track 46 : Fulton_56, GreenIvy_55, BaronJohn_56, Hasitha_56, CaptainRex_56, Librie_56, LilTerminator_56, Zepp_56, Vafari_55, QuadZero_56, Zayuliv_56, Wardwill_58
• Track 47 : Clock_52, Nebulous_52
• Track 48 : Alakazam_54
• Track 49 : TwoBits_54
• Track 50 : Neferthena_57
• Track 51 : Jemerald_55, Juicer_55
• Track 52 : WilliamStrong_55
• Track 53 : KatChan_55, Luna18_56
• Track 54 : Chepli_56
• Track 55 : Morrigan_56
• Track 56 : ChickenKing_56
• Track 57 : GaeCeo_58

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

The start number called the most often in the published annotations is 12, it was called in 175 of the 182 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acosta_62, Agente005_60, AlexAdler_61, Aleyra_60, Alyxandracam_61, Anilorac_59, Antoinette_61, AranulaLuti_60, Asta_60, Aubergine_60, AxiPup_61, Baines_60, Balsa_59, Bandik_61, BaronJohn_56, BeautPeep30_61, BeeBee8_61, Benjalauren_61, BigRedClifford_61, Blage_61, BonesMcCoy_61, Bonino_60, BouleyBill_54, Bustleton_55, Byron23_62, Calix_60, CaptainRex_56,

CarisSwetlik_60, Carostasia_57, Chako_60, Chamuel_60, Chepli_56, Christoph_60, Cidela_57, Clancy_60, Clock_52, Convict_61, CoraRita_60, Dave_61, Delphidian_60, Den3_61, Dothraki_61, Duocatuli_60, Endor_62, Erla_60, Espinosa_60, Etna_60, Etta_60, Exploradora_60, Fabyndrax_57, FarmerDoug_60, Fulton_56, GardenB_61, Garey24_61, Gargoyle_61, Gelo_60, Gershwin_60, GoingMerry_61, Golden_56, GoneGirl_62, GreenIvy_55, Greys_61, Guetzie_57, Hamlet_60, HanSolo_60, HankSprout_61, Hasitha_56, HerculesXL_53, HungryHenry_60, Ilzat_60, Inventa_61, Ioannes_61, Ixel_55, Janus167_60, JasonD_62, JasperRussell_60, Jemerald_55, Jenos_62, Jerbirus_62, JeriBeth_60, Juanyo_59, Juicer_55, Kale_60, KannH_60, KatChan_55, Kauala_54, Kavo_52, KellyGreen_62, KingJulien_59, Klimt_61, Knox_61, Koji_54, Kouch_61, Kurt1_61, Leafus_60, Librie_56, LilTerminator_56, Lovelyunicorn_61, Lucky3_56, Ludgate_61, Luna18_56, MaeLinda_61, ManRay_60, Mandalorian_57, Martin_62, McGalleon_61, Mercedes_50, MillyPhilly_61, MiniVolent_58, MonChoix_59, Morrigan_56, MrWorldwide_61, Nagem_61, Nattles_60, Nebulous_52, Neferthena_57, NickSell_61, Nucci_57, Oats_60, OldNelly_61, Oxtober96_62, Papafritta_60, ParleG_61, Peep_61, Penta_52, Peppino_60, Pherbot_55, Pherferi_61, Phiderman_61, Phireproof_61, PhredFlintston_61, Phriends_60, Pocket_60, PrincePhergus_55, PuppyEggo_61, QuadZero_56, Quartz_58, Rapheph_61, Raptor_61, Redfield_60, RenegadeRaider_57, Renzie_61, Riyhil_61, Robinson_61, Rog141_60, RosieMae_60, SJay_61, Schimmels22_53, Schnapsidee_60, Scissor2024_54, Sedgewig_60, ShaiHulud_61, Shee_61, Sinatra_56, SirVictor_57, SoilGremlin_61, SonOfLevi_61, Soror1_59, Stanktossa_60, StingRay_60, StirfryIV_60, Stormbreaker8_59, Strathdee_61, Superfresh_61, Symere_60, TatarkaPM_61, Teagan_61, TeddyBear_60, Tenda_60, Thompsone_61, Thorongil_61, TinSulphur_62, Tinyman4_52, TwoBits_54, Vafari_55, Velene_61, Vispistious_61, Wardwill_58, WestPM_52, WildNOut_61, WilliamStrong_55, Winzigespinne_60, YuuY_58, Zada_62, Zayuliv_56, Zepp_56,

Genes that have the "Most Annotated" start but do not call it:
• Alakazam_54, Figueroism_61, Gubbabump_60, HavenFinLeoSun_62, Merida02_62, PhillyPhantom_60, Raccoon_60, SolidSnake_62,

Genes that do not have the "Most Annotated" start:
• ChickenKing_56, GaeCeo_58, Jingles_56,

Summary by start number:

Start 11:
• Found in 2 of 197 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 182
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChickenKing_56 (EA9), Jingles_56 (EA4),

Start 12:
• Found in 194 of 197 (98.5%) of genes in pham
• Manual Annotations of this start: 175 of 182
• Called 95.9% of time when present
• Phage (with cluster) where this start called: Acosta_62 (EA1), Agente005_60 (EA1), AlexAdler_61 (EA1), Aleyra_60 (EA1), Alyxandracam_61 (EA1), Anilorac_59 (EA1), Antoinette_61 (EA1), AranulaLuti_60 (EA1), Asta_60 (EA1), Aubergine_60 (EA1), AxiPup_61 (EA1), Baines_60 (EA1), Balsa_59 (EA1), Bandik_61 (EA1),

BaronJohn_56 (EA5), BeautPeep30_61 (EA1), BeeBee8_61 (EA1), Benjalauren_61 (EA1), BigRedClifford_61 (EA1), Blage_61 (EA1), BonesMcCoy_61 (EA1), Bonino_60 (EA1), BouleyBill_54 (EA4), Bustleton_55 (EA4), Byron23_62 (EA1), Calix_60 (EA1), CaptainRex_56 (EA5), CarisSwetlik_60 (EA1), Carostasia_57 (EA10), Chako_60 (EA1), Chamuel_60 (EA1), Chepli_56 (EA6), Christoph_60 (EA1), Cidela_57 (EA10), Clancy_60 (EA1), Clock_52 (EA5), Convict_61 (EA1), CoraRita_60 (EA1), Dave_61 (EA1), Delphidian_60 (EA1), Den3_61 (EA1), Dothraki_61 (EA1), Duocatuli_60 (EA1), Endor_62 (EA1), Erla_60 (EA1), Espinosa_60 (EA1), Etna_60 (EA1), Etta_60 (EA1), Exploradora_60 (EA1), Fabyndrax_57 (EA10), FarmerDoug_60 (EA1), Fulton_56 (EA5), GardenB_61 (EA1), Garey24_61 (EA1), Gargoyle_61 (EA1), Gelo_60 (EA1), Gershwin_60 (EA1), GoingMerry_61 (EA1), Golden_56 (EA4), GoneGirl_62 (EA1), GreenIvy_55 (EA5), Greys_61 (EA1), Guetzie_57 (EA4), Hamlet_60 (EA1), HanSolo_60 (EA1), HankSprout_61 (EA1), Hasitha_56 (EA5), HerculesXL_53 (EA11), HungryHenry_60 (EA1), Ilzat_60 (EA1), Inventa_61 (EA1), Ioannes_61 (EA1), Ixel_55 (EA11), Janus167_60 (EA1), JasonD_62 (EA1), JasperRussell_60 (EA1), Jemerald_55 (EA6), Jenos_62 (EA1), Jerbirus_62 (EA1), JeriBeth_60 (EA1), Juanyo_59 (EA10), Juicer_55 (EA6), Kale_60 (EA1), KannH_60 (EA1), KatChan_55 (EA6), Kauala_54 (EA4), Kavo_52 (EA11), KellyGreen_62 (EA1), KingJulien_59 (EA1), Klimt_61 (EA1), Knox_61 (EA1), Koji_54 (EA4), Kouch_61 (EA1), Kurt1_61 (EA1), Leafus_60 (EA1), Librie_56 (EA5), LilTerminator_56 (EA5), Lovelyunicorn_61 (EA1), Lucky3_56 (EA4), Ludgate_61 (EA1), Luna18_56 (EA6), MaeLinda_61 (EA1), ManRay_60 (EA1), Mandalorian_57 (EA10), Martin_62 (EA1), McGalleon_61 (EA1), Mercedes_50 (EA), MillyPhilly_61 (EA1), MiniVolent_58 (EA10), MonChoix_59 (EA1), Morrigan_56 (EA6), MrWorldwide_61 (EA1), Nagem_61 (EA1), Nattles_60 (EA1), Nebulous_52 (EA5), Neferthena_57 (EA5), NickSell_61 (EA1), Nucci_57 (EA10), Oats_60 (EA1), OldNelly_61 (EA1), Oxtober96_62 (EA1), Papafritta_60 (EA1), ParleG_61 (EA1), Peep_61 (EA1), Penta_52 (EA11), Peppino_60 (EA1), Pherbot_55 (EA4), Pherferi_61 (EA1), Phiderman_61 (EA1), Phireproof_61 (EA1), PhredFlintston_61 (EA1), Phriends_60 (EA1), Pocket_60 (EA1), PrincePhergus_55 (EA4), PuppyEggo_61 (EA1), QuadZero_56 (EA5), Quartz_58 (EA10), Rapheph_61 (EA1), Raptor_61 (EA1), Redfield_60 (EA1), RenegadeRaider_57 (EA4), Renzie_61 (EA1), Riyhil_61 (EA1), Robinson_61 (EA1), Rog141_60 (EA1), RosieMae_60 (EA1), SJay_61 (EA1), Schimmels22_53 (EA11), Schnapsidee_60 (EA1), Scissor2024_54 (EA11), Sedgewig_60 (EA1), ShaiHulud_61 (EA1), Shee_61 (EA1), Sinatra_56 (EA4), SirVictor_57 (EA4), SoilGremlin_61 (EA1), SonOfLevi_61 (EA1), Soror1_59 (EA1), Stanktossa_60 (EA1), StingRay_60 (EA1), StirfryIV_60 (EA1), Stormbreaker8_59 (EA1), Strathdee_61 (EA1), Superfresh_61 (EA1), Symere_60 (EA1), TatarkaPM_61 (EA1), Teagan_61 (EA1), TeddyBear_60 (EA1), Tenda_60 (EA1), Thompsone_61 (EA1), Thorongil_61 (EA1), TinSulphur_62 (EA1), Tinyman4_52 (EA11), TwoBits_54 (EA5), Vafari_55 (EA5), Velene_61 (EA1), Vispistious_61 (EA1), Wardwill_58 (EA5), WestPM_52 (EA11), WildNOut_61 (EA1), WilliamStrong_55 (EA6), Winzigespinne_60 (EA1), YuuY_58 (EA10), Zada_62 (EA1), Zayuliv_56 (EA5), Zepp_56 (EA5),

Start 14:
• Found in 17 of 197 (8.6%) of genes in pham
• Manual Annotations of this start: 2 of 182
• Called 17.6% of time when present
• Phage (with cluster) where this start called: Alakazam_54 (EA5), PhillyPhantom_60 (EA1), Raccoon_60 (EA1),

Start 16:
• Found in 17 of 197 (8.6%) of genes in pham

• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: HavenFinLeoSun_62 (EA1),

Start 17:
• Found in 142 of 197 (72.1%) of genes in pham
• Manual Annotations of this start: 2 of 182
• Called 1.4% of time when present
• Phage (with cluster) where this start called: Figueroism_61 (EA1), Gubbabump_60 (EA1),

Start 18:
• Found in 14 of 197 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 182
• Called 7.1% of time when present
• Phage (with cluster) where this start called: GaeCeo_58 (EA9),

Start 33:
• Found in 119 of 197 (60.4%) of genes in pham
• No Manual Annotations of this start.
• Called 1.7% of time when present
• Phage (with cluster) where this start called: Merida02_62 (EA1), SolidSnake_62 (EA1),

Summary by clusters:

There are 8 clusters represented in this pham: EA11, EA10, EA, EA9, EA1, EA5, EA4, EA6,

Info for manual annotations of cluster EA:
•Start number 12 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:
•Start number 12 was manually annotated 129 times for cluster EA1.
•Start number 14 was manually annotated 1 time for cluster EA1.
•Start number 17 was manually annotated 2 times for cluster EA1.

Info for manual annotations of cluster EA10:
•Start number 12 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:
•Start number 12 was manually annotated 6 times for cluster EA11.

Info for manual annotations of cluster EA4:
•Start number 11 was manually annotated 1 time for cluster EA4.
•Start number 12 was manually annotated 11 times for cluster EA4.

Info for manual annotations of cluster EA5:
•Start number 12 was manually annotated 15 times for cluster EA5.
•Start number 14 was manually annotated 1 time for cluster EA5.

Info for manual annotations of cluster EA6:
•Start number 12 was manually annotated 7 times for cluster EA6.

Info for manual annotations of cluster EA9:
•Start number 11 was manually annotated 1 time for cluster EA9.
•Start number 18 was manually annotated 1 time for cluster EA9.

Gene Information:

Gene: Acosta_62 Start: 40455, Stop: 40096, Start Num: 12
Candidate Starts for Acosta_62:
(2, 40602), (Start: 12 @40455 has 175 MA's), (Start: 14 @40437 has 2 MA's), (16, 40428), (Start: 18 @40422 has 1 MA's), (31, 40359), (39, 40314), (51, 40224), (53, 40209), (55, 40194), (60, 40149), (63, 40140), (67, 40116),

Gene: Agente005_60 Start: 40271, Stop: 39876, Start Num: 12
Candidate Starts for Agente005_60:
(Start: 12 @40271 has 175 MA's), (16, 40244), (23, 40220), (25, 40208), (40, 40106), (51, 40019), (64, 39926), (67, 39896),

Gene: Alakazam_54 Start: 38059, Stop: 37712, Start Num: 14
Candidate Starts for Alakazam_54:
(Start: 12 @38077 has 175 MA's), (Start: 14 @38059 has 2 MA's), (Start: 17 @38047 has 2 MA's), (19, 38041), (50, 37843), (69, 37720),

Gene: AlexAdler_61 Start: 40415, Stop: 40056, Start Num: 12
Candidate Starts for AlexAdler_61:
(Start: 12 @40415 has 175 MA's), (Start: 17 @40385 has 2 MA's), (23, 40364), (33, 40313), (35, 40307), (53, 40169), (67, 40076),

Gene: Aleyra_60 Start: 40276, Stop: 39881, Start Num: 12
Candidate Starts for Aleyra_60:
(Start: 12 @40276 has 175 MA's), (16, 40249), (23, 40225), (25, 40213), (40, 40111), (51, 40024), (64, 39931), (67, 39901),

Gene: Alyxandracam_61 Start: 40352, Stop: 39993, Start Num: 12
Candidate Starts for Alyxandracam_61:
(Start: 12 @40352 has 175 MA's), (Start: 17 @40322 has 2 MA's), (23, 40301), (33, 40250), (35, 40244), (49, 40136), (53, 40106), (67, 40013),

Gene: Anilorac_59 Start: 40178, Stop: 39783, Start Num: 12
Candidate Starts for Anilorac_59:
(Start: 12 @40178 has 175 MA's), (16, 40151), (23, 40127), (25, 40115), (40, 40013), (51, 39926), (64, 39833), (67, 39803),

Gene: Antoinette_61 Start: 40440, Stop: 40081, Start Num: 12
Candidate Starts for Antoinette_61:
(Start: 12 @40440 has 175 MA's), (Start: 17 @40410 has 2 MA's), (23, 40389), (33, 40338), (35, 40332), (53, 40194), (67, 40101),

Gene: AranulaLuti_60 Start: 40132, Stop: 39773, Start Num: 12
Candidate Starts for AranulaLuti_60:

(Start: 12 @40132 has 175 MA's), (Start: 17 @40102 has 2 MA's), (23, 40081), (33, 40030), (35, 40024), (53, 39886), (67, 39793),

Gene: Asta_60 Start: 40137, Stop: 39778, Start Num: 12
Candidate Starts for Asta_60:
(6, 40206), (Start: 12 @40137 has 175 MA's), (Start: 17 @40107 has 2 MA's), (23, 40086), (33, 40035), (35, 40029), (53, 39891), (67, 39798),

Gene: Aubergine_60 Start: 40137, Stop: 39778, Start Num: 12
Candidate Starts for Aubergine_60:
(6, 40206), (Start: 12 @40137 has 175 MA's), (Start: 17 @40107 has 2 MA's), (23, 40086), (33, 40035), (35, 40029), (53, 39891), (67, 39798),

Gene: AxiPup_61 Start: 40351, Stop: 39992, Start Num: 12
Candidate Starts for AxiPup_61:
(6, 40420), (Start: 12 @40351 has 175 MA's), (Start: 17 @40321 has 2 MA's), (23, 40300), (33, 40249), (35, 40243), (53, 40105), (67, 40012),

Gene: Baines_60 Start: 40136, Stop: 39777, Start Num: 12
Candidate Starts for Baines_60:
(6, 40205), (Start: 12 @40136 has 175 MA's), (Start: 17 @40106 has 2 MA's), (23, 40085), (33, 40034), (35, 40028), (53, 39890), (67, 39797),

Gene: Balsa_59 Start: 40302, Stop: 39907, Start Num: 12
Candidate Starts for Balsa_59:
(2, 40434), (6, 40371), (Start: 12 @40302 has 175 MA's), (16, 40275), (23, 40251), (25, 40239), (34, 40182), (40, 40137), (45, 40083), (47, 40071), (48, 40068), (64, 39957), (67, 39927),

Gene: Bandik_61 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for Bandik_61:
(6, 40453), (Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: BaronJohn_56 Start: 37587, Stop: 37240, Start Num: 12
Candidate Starts for BaronJohn_56:
(Start: 12 @37587 has 175 MA's), (Start: 17 @37557 has 2 MA's), (37, 37470), (46, 37380), (61, 37278),

Gene: BeautPeep30_61 Start: 40390, Stop: 40031, Start Num: 12
Candidate Starts for BeautPeep30_61:
(6, 40459), (Start: 12 @40390 has 175 MA's), (Start: 17 @40360 has 2 MA's), (23, 40339), (33, 40288), (35, 40282), (53, 40144), (67, 40051),

Gene: BeeBee8_61 Start: 40467, Stop: 40081, Start Num: 12
Candidate Starts for BeeBee8_61:
(2, 40599), (6, 40536), (Start: 12 @40467 has 175 MA's), (Start: 14 @40449 has 2 MA's), (23, 40416), (25, 40404), (35, 40353), (40, 40311), (47, 40245), (57, 40167), (64, 40131), (67, 40101),

Gene: Benjalauren_61 Start: 40143, Stop: 39784, Start Num: 12
Candidate Starts for Benjalauren_61:
(6, 40212), (Start: 12 @40143 has 175 MA's), (Start: 17 @40113 has 2 MA's), (23, 40092), (33, 40041), (35, 40035), (53, 39897), (67, 39804),

Gene: BigRedClifford_61 Start: 40378, Stop: 40019, Start Num: 12
Candidate Starts for BigRedClifford_61:
(Start: 12 @40378 has 175 MA's), (Start: 17 @40348 has 2 MA's), (23, 40327), (33, 40276), (35, 40270), (53, 40132), (67, 40039),

Gene: Blage_61 Start: 40378, Stop: 40019, Start Num: 12
Candidate Starts for Blage_61:
(Start: 12 @40378 has 175 MA's), (Start: 17 @40348 has 2 MA's), (23, 40327), (33, 40276), (35, 40270), (53, 40132), (67, 40039),

Gene: BonesMcCoy_61 Start: 40379, Stop: 40020, Start Num: 12
Candidate Starts for BonesMcCoy_61:
(6, 40448), (Start: 12 @40379 has 175 MA's), (Start: 17 @40349 has 2 MA's), (23, 40328), (33, 40277), (35, 40271), (53, 40133), (67, 40040),

Gene: Bonino_60 Start: 40116, Stop: 39757, Start Num: 12
Candidate Starts for Bonino_60:
(6, 40185), (Start: 12 @40116 has 175 MA's), (Start: 17 @40086 has 2 MA's), (23, 40065), (33, 40014), (35, 40008), (53, 39870), (56, 39843), (67, 39777),

Gene: BouleyBill_54 Start: 38200, Stop: 37856, Start Num: 12
Candidate Starts for BouleyBill_54:
(Start: 12 @38200 has 175 MA's), (24, 38140), (28, 38128), (30, 38107), (37, 38083), (41, 38047), (55, 37933), (66, 37873),

Gene: Bustleton_55 Start: 38162, Stop: 37818, Start Num: 12
Candidate Starts for Bustleton_55:
(Start: 12 @38162 has 175 MA's), (24, 38102), (28, 38090), (30, 38069), (37, 38045), (41, 38009), (55, 37895),

Gene: Byron23_62 Start: 40387, Stop: 40028, Start Num: 12
Candidate Starts for Byron23_62:
(6, 40456), (Start: 12 @40387 has 175 MA's), (Start: 17 @40357 has 2 MA's), (23, 40336), (33, 40285), (35, 40279), (53, 40141), (67, 40048),

Gene: Calix_60 Start: 40123, Stop: 39764, Start Num: 12
Candidate Starts for Calix_60:
(Start: 12 @40123 has 175 MA's), (Start: 17 @40093 has 2 MA's), (23, 40072), (33, 40021), (35, 40015), (53, 39877), (67, 39784),

Gene: CaptainRex_56 Start: 36985, Stop: 36638, Start Num: 12
Candidate Starts for CaptainRex_56:
(Start: 12 @36985 has 175 MA's), (Start: 17 @36955 has 2 MA's), (37, 36868), (46, 36778), (61, 36676),

Gene: CarisSwetlik_60 Start: 40722, Stop: 40363, Start Num: 12
Candidate Starts for CarisSwetlik_60:
(2, 40869), (Start: 12 @40722 has 175 MA's), (Start: 14 @40704 has 2 MA's), (16, 40695), (Start: 18 @40689 has 1 MA's), (31, 40626), (39, 40581), (51, 40491), (53, 40476), (55, 40461), (60, 40416), (67, 40383),

Gene: Carostasia_57 Start: 38345, Stop: 38004, Start Num: 12
Candidate Starts for Carostasia_57:

(Start: 12 @38345 has 175 MA's), (21, 38300), (37, 38228), (50, 38111),

Gene: Chako_60 Start: 40132, Stop: 39773, Start Num: 12
Candidate Starts for Chako_60:
(6, 40201), (Start: 12 @40132 has 175 MA's), (Start: 17 @40102 has 2 MA's), (23, 40081), (33, 40030), (35, 40024), (53, 39886), (67, 39793),

Gene: Chamuel_60 Start: 40149, Stop: 39790, Start Num: 12
Candidate Starts for Chamuel_60:
(Start: 12 @40149 has 175 MA's), (Start: 17 @40119 has 2 MA's), (23, 40098), (33, 40047), (35, 40041), (53, 39903), (67, 39810),

Gene: Chepli_56 Start: 37092, Stop: 36742, Start Num: 12
Candidate Starts for Chepli_56:
(3, 37227), (Start: 12 @37092 has 175 MA's), (Start: 17 @37062 has 2 MA's), (20, 37050), (22, 37044), (37, 36975), (39, 36951), (50, 36858),

Gene: ChickenKing_56 Start: 39024, Stop: 38674, Start Num: 11
Candidate Starts for ChickenKing_56:
(8, 39078), (Start: 11 @39024 has 2 MA's), (Start: 17 @38994 has 2 MA's), (20, 38982), (28, 38952), (33, 38922), (37, 38907), (39, 38883), (55, 38757),

Gene: Christoph_60 Start: 40136, Stop: 39777, Start Num: 12
Candidate Starts for Christoph_60:
(6, 40205), (Start: 12 @40136 has 175 MA's), (Start: 17 @40106 has 2 MA's), (23, 40085), (33, 40034), (35, 40028), (53, 39890), (67, 39797),

Gene: Cidela_57 Start: 39265, Stop: 38924, Start Num: 12
Candidate Starts for Cidela_57:
(Start: 12 @39265 has 175 MA's), (46, 39058), (50, 39031),

Gene: Clancy_60 Start: 40136, Stop: 39777, Start Num: 12
Candidate Starts for Clancy_60:
(6, 40205), (Start: 12 @40136 has 175 MA's), (Start: 17 @40106 has 2 MA's), (23, 40085), (33, 40034), (35, 40028), (53, 39890), (67, 39797),

Gene: Clock_52 Start: 38493, Stop: 38140, Start Num: 12
Candidate Starts for Clock_52:
(Start: 12 @38493 has 175 MA's), (Start: 14 @38475 has 2 MA's), (Start: 17 @38463 has 2 MA's), (19, 38457), (37, 38376), (46, 38286), (50, 38259),

Gene: Convict_61 Start: 40379, Stop: 40020, Start Num: 12
Candidate Starts for Convict_61:
(6, 40448), (Start: 12 @40379 has 175 MA's), (Start: 17 @40349 has 2 MA's), (23, 40328), (33, 40277), (35, 40271), (53, 40133), (67, 40040),

Gene: CoraRita_60 Start: 40105, Stop: 39746, Start Num: 12
Candidate Starts for CoraRita_60:
(6, 40174), (Start: 12 @40105 has 175 MA's), (Start: 17 @40075 has 2 MA's), (23, 40054), (33, 40003), (35, 39997), (53, 39859), (67, 39766),

Gene: Dave_61 Start: 40440, Stop: 40081, Start Num: 12
Candidate Starts for Dave_61:

(Start: 12 @40440 has 175 MA's), (Start: 17 @40410 has 2 MA's), (23, 40389), (33, 40338), (35, 40332), (53, 40194), (67, 40101),

Gene: Delphidian_60 Start: 40177, Stop: 39818, Start Num: 12
Candidate Starts for Delphidian_60:
(6, 40246), (Start: 12 @40177 has 175 MA's), (Start: 17 @40147 has 2 MA's), (23, 40126), (33, 40075), (35, 40069), (53, 39931), (67, 39838),

Gene: Den3_61 Start: 40383, Stop: 40024, Start Num: 12
Candidate Starts for Den3_61:
(Start: 12 @40383 has 175 MA's), (Start: 17 @40353 has 2 MA's), (23, 40332), (33, 40281), (35, 40275), (53, 40137), (67, 40044),

Gene: Dothraki_61 Start: 40387, Stop: 40028, Start Num: 12
Candidate Starts for Dothraki_61:
(6, 40456), (Start: 12 @40387 has 175 MA's), (Start: 17 @40357 has 2 MA's), (23, 40336), (33, 40285), (35, 40279), (53, 40141), (67, 40048),

Gene: Duocatuli_60 Start: 40132, Stop: 39773, Start Num: 12
Candidate Starts for Duocatuli_60:
(6, 40201), (Start: 12 @40132 has 175 MA's), (Start: 17 @40102 has 2 MA's), (23, 40081), (33, 40030), (35, 40024), (53, 39886), (67, 39793),

Gene: Endor_62 Start: 40712, Stop: 40344, Start Num: 12
Candidate Starts for Endor_62:
(6, 40781), (Start: 12 @40712 has 175 MA's), (Start: 18 @40679 has 1 MA's), (33, 40604), (40, 40556), (50, 40472), (58, 40412), (59, 40403), (63, 40388), (67, 40364),

Gene: Erla_60 Start: 40120, Stop: 39761, Start Num: 12
Candidate Starts for Erla_60:
(Start: 12 @40120 has 175 MA's), (Start: 17 @40090 has 2 MA's), (23, 40069), (33, 40018), (35, 40012), (53, 39874), (67, 39781),

Gene: Espinosa_60 Start: 40135, Stop: 39776, Start Num: 12
Candidate Starts for Espinosa_60:
(6, 40204), (Start: 12 @40135 has 175 MA's), (Start: 17 @40105 has 2 MA's), (23, 40084), (33, 40033), (35, 40027), (53, 39889), (67, 39796),

Gene: Etna_60 Start: 40349, Stop: 39954, Start Num: 12
Candidate Starts for Etna_60:
(2, 40481), (6, 40418), (Start: 12 @40349 has 175 MA's), (16, 40322), (23, 40298), (25, 40286), (26, 40283), (34, 40229), (40, 40184), (45, 40130), (47, 40118), (48, 40115), (64, 40004), (67, 39974),

Gene: Etta_60 Start: 40124, Stop: 39765, Start Num: 12
Candidate Starts for Etta_60:
(Start: 12 @40124 has 175 MA's), (Start: 17 @40094 has 2 MA's), (23, 40073), (33, 40022), (35, 40016), (53, 39878), (67, 39785),

Gene: Exploradora_60 Start: 40085, Stop: 39726, Start Num: 12
Candidate Starts for Exploradora_60:
(Start: 12 @40085 has 175 MA's), (Start: 17 @40055 has 2 MA's), (23, 40034), (33, 39983), (35, 39977), (53, 39839), (67, 39746),

Gene: Fabyndrax_57 Start: 39277, Stop: 38936, Start Num: 12
Candidate Starts for Fabyndrax_57:
(Start: 12 @39277 has 175 MA's), (46, 39070), (50, 39043),

Gene: FarmerDoug_60 Start: 40145, Stop: 39777, Start Num: 12
Candidate Starts for FarmerDoug_60:
(Start: 12 @40145 has 175 MA's), (Start: 18 @40112 has 1 MA's), (33, 40037), (40, 39989), (47, 39923), (58, 39845), (59, 39836), (63, 39821), (67, 39797),

Gene: Figueroism_61 Start: 40399, Stop: 40070, Start Num: 17
Candidate Starts for Figueroism_61:
(Start: 12 @40429 has 175 MA's), (Start: 17 @40399 has 2 MA's), (23, 40378), (33, 40327), (35, 40321), (53, 40183), (67, 40090),

Gene: Fulton_56 Start: 36986, Stop: 36639, Start Num: 12
Candidate Starts for Fulton_56:
(Start: 12 @36986 has 175 MA's), (Start: 17 @36956 has 2 MA's), (37, 36869), (46, 36779), (61, 36677),

Gene: GaeCeo_58 Start: 39248, Stop: 38907, Start Num: 18
Candidate Starts for GaeCeo_58:
(13, 39269), (Start: 18 @39248 has 1 MA's), (21, 39236), (27, 39215), (35, 39170), (40, 39128), (44, 39080), (45, 39074),

Gene: GardenB_61 Start: 40508, Stop: 40149, Start Num: 12
Candidate Starts for GardenB_61:
(Start: 12 @40508 has 175 MA's), (Start: 17 @40478 has 2 MA's), (28, 40436), (33, 40406), (50, 40280), (53, 40262), (67, 40169),

Gene: Garey24_61 Start: 40103, Stop: 39744, Start Num: 12
Candidate Starts for Garey24_61:
(Start: 12 @40103 has 175 MA's), (Start: 17 @40073 has 2 MA's), (23, 40052), (33, 40001), (35, 39995), (53, 39857), (67, 39764),

Gene: Gargoyle_61 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for Gargoyle_61:
(6, 40453), (Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: Gelo_60 Start: 40130, Stop: 39771, Start Num: 12
Candidate Starts for Gelo_60:
(6, 40199), (Start: 12 @40130 has 175 MA's), (Start: 17 @40100 has 2 MA's), (23, 40079), (33, 40028), (35, 40022), (53, 39884), (67, 39791),

Gene: Gershwin_60 Start: 40137, Stop: 39778, Start Num: 12
Candidate Starts for Gershwin_60:
(6, 40206), (Start: 12 @40137 has 175 MA's), (Start: 17 @40107 has 2 MA's), (23, 40086), (33, 40035), (35, 40029), (53, 39891), (67, 39798),

Gene: GoingMerry_61 Start: 40361, Stop: 40002, Start Num: 12
Candidate Starts for GoingMerry_61:
(6, 40430), (Start: 12 @40361 has 175 MA's), (Start: 17 @40331 has 2 MA's), (23, 40310), (33, 40259), (35, 40253), (53, 40115), (67, 40022),

Gene: Golden_56 Start: 38623, Stop: 38285, Start Num: 12
Candidate Starts for Golden_56:
(Start: 12 @38623 has 175 MA's), (Start: 18 @38590 has 1 MA's), (24, 38563), (28, 38551), (30, 38530), (37, 38506), (38, 38500), (41, 38470), (55, 38356), (66, 38296),

Gene: GoneGirl_62 Start: 40495, Stop: 40136, Start Num: 12
Candidate Starts for GoneGirl_62:
(Start: 12 @40495 has 175 MA's), (Start: 17 @40465 has 2 MA's), (28, 40423), (33, 40393), (50, 40267), (53, 40249), (67, 40156),

Gene: GreenIvy_55 Start: 37328, Stop: 36981, Start Num: 12
Candidate Starts for GreenIvy_55:
(Start: 12 @37328 has 175 MA's), (Start: 17 @37298 has 2 MA's), (37, 37211), (46, 37121), (61, 37019),

Gene: Greys_61 Start: 40379, Stop: 40020, Start Num: 12
Candidate Starts for Greys_61:
(Start: 12 @40379 has 175 MA's), (Start: 17 @40349 has 2 MA's), (23, 40328), (33, 40277), (35, 40271), (53, 40133), (67, 40040),

Gene: Gubbabump_60 Start: 40044, Stop: 39715, Start Num: 17
Candidate Starts for Gubbabump_60:
(Start: 12 @40074 has 175 MA's), (Start: 17 @40044 has 2 MA's), (23, 40023), (33, 39972), (35, 39966), (53, 39828), (67, 39735),

Gene: Guetzie_57 Start: 38742, Stop: 38404, Start Num: 12
Candidate Starts for Guetzie_57:
(Start: 12 @38742 has 175 MA's), (Start: 18 @38709 has 1 MA's), (28, 38670), (30, 38649), (37, 38625), (38, 38619), (41, 38589), (46, 38535), (55, 38475), (66, 38415),

Gene: Hamlet_60 Start: 40386, Stop: 40000, Start Num: 12
Candidate Starts for Hamlet_60:
(2, 40518), (6, 40455), (Start: 12 @40386 has 175 MA's), (Start: 14 @40368 has 2 MA's), (23, 40335), (25, 40323), (35, 40272), (40, 40230), (47, 40164), (57, 40086), (64, 40050), (67, 40020),

Gene: HanSolo_60 Start: 40084, Stop: 39725, Start Num: 12
Candidate Starts for HanSolo_60:
(6, 40153), (Start: 12 @40084 has 175 MA's), (Start: 17 @40054 has 2 MA's), (23, 40033), (33, 39982), (35, 39976), (53, 39838), (67, 39745),

Gene: HankSprout_61 Start: 40003, Stop: 39644, Start Num: 12
Candidate Starts for HankSprout_61:
(6, 40072), (Start: 12 @40003 has 175 MA's), (Start: 17 @39973 has 2 MA's), (23, 39952), (33, 39901), (35, 39895), (53, 39757), (67, 39664),

Gene: Hasitha_56 Start: 36998, Stop: 36651, Start Num: 12
Candidate Starts for Hasitha_56:
(Start: 12 @36998 has 175 MA's), (Start: 17 @36968 has 2 MA's), (37, 36881), (46, 36791), (61, 36689),

Gene: HavenFinLeoSun_62 Start: 40374, Stop: 40042, Start Num: 16
Candidate Starts for HavenFinLeoSun_62:

(2, 40548), (Start: 12 @40401 has 175 MA's), (Start: 14 @40383 has 2 MA's), (16, 40374), (Start: 18 @40368 has 1 MA's), (31, 40305), (39, 40260), (51, 40170), (53, 40155), (55, 40140), (60, 40095), (63, 40086), (67, 40062),

Gene: HerculesXL_53 Start: 36406, Stop: 36020, Start Num: 12
Candidate Starts for HerculesXL_53:
(1, 36628), (Start: 12 @36406 has 175 MA's), (32, 36307), (35, 36298), (37, 36289), (44, 36208), (45, 36202), (56, 36121), (67, 36040),

Gene: HungryHenry_60 Start: 40097, Stop: 39738, Start Num: 12
Candidate Starts for HungryHenry_60:
(6, 40166), (Start: 12 @40097 has 175 MA's), (Start: 17 @40067 has 2 MA's), (23, 40046), (33, 39995), (35, 39989), (53, 39851), (67, 39758),

Gene: Ilzat_60 Start: 40107, Stop: 39748, Start Num: 12
Candidate Starts for Ilzat_60:
(6, 40176), (Start: 12 @40107 has 175 MA's), (Start: 17 @40077 has 2 MA's), (23, 40056), (33, 40005), (35, 39999), (53, 39861), (67, 39768),

Gene: Inventa_61 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for Inventa_61:
(6, 40453), (Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: Ioannes_61 Start: 40461, Stop: 40102, Start Num: 12
Candidate Starts for Ioannes_61:
(6, 40530), (Start: 12 @40461 has 175 MA's), (Start: 17 @40431 has 2 MA's), (23, 40410), (33, 40359), (35, 40353), (53, 40215), (67, 40122),

Gene: Ixel_55 Start: 37833, Stop: 37477, Start Num: 12
Candidate Starts for Ixel_55:
(7, 37911), (Start: 12 @37833 has 175 MA's), (22, 37785), (37, 37716), (62, 37521), (67, 37497),

Gene: Janus167_60 Start: 40112, Stop: 39753, Start Num: 12
Candidate Starts for Janus167_60:
(6, 40181), (Start: 12 @40112 has 175 MA's), (Start: 17 @40082 has 2 MA's), (23, 40061), (33, 40010), (35, 40004), (53, 39866), (67, 39773),

Gene: JasonD_62 Start: 40672, Stop: 40313, Start Num: 12
Candidate Starts for JasonD_62:
(Start: 12 @40672 has 175 MA's), (16, 40645), (Start: 18 @40639 has 1 MA's), (31, 40576), (39, 40531), (51, 40441), (53, 40426), (55, 40411), (60, 40366), (63, 40357), (67, 40333),

Gene: JasperRussell_60 Start: 40132, Stop: 39773, Start Num: 12
Candidate Starts for JasperRussell_60:
(6, 40201), (Start: 12 @40132 has 175 MA's), (Start: 17 @40102 has 2 MA's), (23, 40081), (33, 40030), (35, 40024), (53, 39886), (67, 39793),

Gene: Jemerald_55 Start: 37998, Stop: 37657, Start Num: 12
Candidate Starts for Jemerald_55:
(Start: 12 @37998 has 175 MA's), (Start: 14 @37980 has 2 MA's), (15, 37977), (Start: 17 @37968 has 2 MA's), (29, 37908), (31, 37902), (37, 37881), (46, 37791),

Gene: Jenos_62 Start: 40967, Stop: 40608, Start Num: 12
Candidate Starts for Jenos_62:
(2, 41114), (Start: 12 @40967 has 175 MA's), (Start: 14 @40949 has 2 MA's), (16, 40940), (Start: 18 @40934 has 1 MA's), (31, 40871), (39, 40826), (51, 40736), (53, 40721), (55, 40706), (60, 40661), (67, 40628),

Gene: Jerbirus_62 Start: 40127, Stop: 39768, Start Num: 12
Candidate Starts for Jerbirus_62:
(6, 40196), (Start: 12 @40127 has 175 MA's), (Start: 17 @40097 has 2 MA's), (23, 40076), (33, 40025), (35, 40019), (53, 39881), (67, 39788),

Gene: JeriBeth_60 Start: 40015, Stop: 39656, Start Num: 12
Candidate Starts for JeriBeth_60:
(Start: 12 @40015 has 175 MA's), (Start: 17 @39985 has 2 MA's), (23, 39964), (33, 39913), (35, 39907), (53, 39769), (67, 39676),

Gene: Jingles_56 Start: 38260, Stop: 37916, Start Num: 11
Candidate Starts for Jingles_56:
(Start: 11 @38260 has 2 MA's), (24, 38200), (28, 38188), (30, 38167), (37, 38143), (41, 38107), (55, 37993),

Gene: Juanyo_59 Start: 39028, Stop: 38684, Start Num: 12
Candidate Starts for Juanyo_59:
(Start: 12 @39028 has 175 MA's), (50, 38794),

Gene: Juicer_55 Start: 37998, Stop: 37657, Start Num: 12
Candidate Starts for Juicer_55:
(Start: 12 @37998 has 175 MA's), (Start: 14 @37980 has 2 MA's), (15, 37977), (Start: 17 @37968 has 2 MA's), (29, 37908), (31, 37902), (37, 37881), (46, 37791),

Gene: Kale_60 Start: 40139, Stop: 39780, Start Num: 12
Candidate Starts for Kale_60:
(6, 40208), (Start: 12 @40139 has 175 MA's), (Start: 17 @40109 has 2 MA's), (23, 40088), (33, 40037), (35, 40031), (53, 39893), (67, 39800),

Gene: KannH_60 Start: 40132, Stop: 39773, Start Num: 12
Candidate Starts for KannH_60:
(6, 40201), (Start: 12 @40132 has 175 MA's), (Start: 17 @40102 has 2 MA's), (23, 40081), (33, 40030), (35, 40024), (53, 39886), (67, 39793),

Gene: KatChan_55 Start: 37104, Stop: 36754, Start Num: 12
Candidate Starts for KatChan_55:
(3, 37239), (Start: 12 @37104 has 175 MA's), (Start: 17 @37074 has 2 MA's), (20, 37062), (22, 37056), (37, 36987), (50, 36870),

Gene: Kauala_54 Start: 38352, Stop: 38008, Start Num: 12
Candidate Starts for Kauala_54:
(Start: 12 @38352 has 175 MA's), (Start: 14 @38334 has 2 MA's), (Start: 17 @38322 has 2 MA's), (21, 38307), (24, 38292), (28, 38280), (30, 38259), (37, 38235), (41, 38199), (42, 38166), (55, 38085),

Gene: Kavo_52 Start: 36452, Stop: 36066, Start Num: 12
Candidate Starts for Kavo_52:

(1, 36674), (Start: 12 @36452 has 175 MA's), (32, 36353), (35, 36344), (37, 36335), (44, 36254), (45, 36248), (56, 36167), (67, 36086),

Gene: KellyGreen_62 Start: 40121, Stop: 39762, Start Num: 12
Candidate Starts for KellyGreen_62:
(6, 40190), (Start: 12 @40121 has 175 MA's), (Start: 17 @40091 has 2 MA's), (23, 40070), (33, 40019), (35, 40013), (53, 39875), (67, 39782),

Gene: KingJulien_59 Start: 40190, Stop: 39795, Start Num: 12
Candidate Starts for KingJulien_59:
(2, 40322), (6, 40259), (Start: 12 @40190 has 175 MA's), (16, 40163), (23, 40139), (25, 40127), (26, 40124), (34, 40070), (40, 40025), (45, 39971), (47, 39959), (48, 39956), (64, 39845), (67, 39815),

Gene: Klimt_61 Start: 40155, Stop: 39796, Start Num: 12
Candidate Starts for Klimt_61:
(Start: 12 @40155 has 175 MA's), (Start: 17 @40125 has 2 MA's), (23, 40104), (33, 40053), (35, 40047), (53, 39909), (67, 39816),

Gene: Knox_61 Start: 40379, Stop: 40020, Start Num: 12
Candidate Starts for Knox_61:
(6, 40448), (Start: 12 @40379 has 175 MA's), (Start: 17 @40349 has 2 MA's), (23, 40328), (33, 40277), (35, 40271), (53, 40133), (67, 40040),

Gene: Koji_54 Start: 38381, Stop: 38037, Start Num: 12
Candidate Starts for Koji_54:
(Start: 12 @38381 has 175 MA's), (24, 38321), (28, 38309), (30, 38288), (37, 38264), (41, 38228), (55, 38114), (66, 38054),

Gene: Kouch_61 Start: 40085, Stop: 39726, Start Num: 12
Candidate Starts for Kouch_61:
(Start: 12 @40085 has 175 MA's), (Start: 17 @40055 has 2 MA's), (23, 40034), (33, 39983), (35, 39977), (53, 39839), (67, 39746),

Gene: Kurt1_61 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for Kurt1_61:
(6, 40453), (Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: Leafus_60 Start: 40452, Stop: 40057, Start Num: 12
Candidate Starts for Leafus_60:
(2, 40584), (6, 40521), (Start: 12 @40452 has 175 MA's), (16, 40425), (23, 40401), (25, 40389), (26, 40386), (34, 40332), (40, 40287), (45, 40233), (47, 40221), (48, 40218), (64, 40107), (67, 40077),

Gene: Librie_56 Start: 36985, Stop: 36638, Start Num: 12
Candidate Starts for Librie_56:
(Start: 12 @36985 has 175 MA's), (Start: 17 @36955 has 2 MA's), (37, 36868), (46, 36778), (61, 36676),

Gene: LilTerminator_56 Start: 36994, Stop: 36647, Start Num: 12
Candidate Starts for LilTerminator_56:
(Start: 12 @36994 has 175 MA's), (Start: 17 @36964 has 2 MA's), (37, 36877), (46, 36787), (61, 36685),

Gene: Lovelyunicorn_61 Start: 40379, Stop: 40020, Start Num: 12
Candidate Starts for Lovelyunicorn_61:
(Start: 12 @40379 has 175 MA's), (Start: 17 @40349 has 2 MA's), (23, 40328), (33, 40277), (35, 40271), (53, 40133), (67, 40040),

Gene: Lucky3_56 Start: 38623, Stop: 38285, Start Num: 12
Candidate Starts for Lucky3_56:
(Start: 12 @38623 has 175 MA's), (Start: 18 @38590 has 1 MA's), (24, 38563), (28, 38551), (30, 38530), (37, 38506), (38, 38500), (41, 38470), (55, 38356), (66, 38296),

Gene: Ludgate_61 Start: 40380, Stop: 40021, Start Num: 12
Candidate Starts for Ludgate_61:
(Start: 12 @40380 has 175 MA's), (Start: 17 @40350 has 2 MA's), (23, 40329), (33, 40278), (35, 40272), (53, 40134), (67, 40041),

Gene: Luna18_56 Start: 37104, Stop: 36754, Start Num: 12
Candidate Starts for Luna18_56:
(3, 37239), (Start: 12 @37104 has 175 MA's), (Start: 17 @37074 has 2 MA's), (20, 37062), (22, 37056), (37, 36987), (50, 36870),

Gene: MaeLinda_61 Start: 40391, Stop: 40032, Start Num: 12
Candidate Starts for MaeLinda_61:
(Start: 12 @40391 has 175 MA's), (Start: 17 @40361 has 2 MA's), (23, 40340), (33, 40289), (35, 40283), (53, 40145), (67, 40052),

Gene: ManRay_60 Start: 40137, Stop: 39778, Start Num: 12
Candidate Starts for ManRay_60:
(Start: 12 @40137 has 175 MA's), (Start: 17 @40107 has 2 MA's), (23, 40086), (33, 40035), (35, 40029), (53, 39891), (67, 39798),

Gene: Mandalorian_57 Start: 38356, Stop: 38015, Start Num: 12
Candidate Starts for Mandalorian_57:
(Start: 12 @38356 has 175 MA's), (21, 38311), (37, 38239), (50, 38122),

Gene: Martin_62 Start: 40393, Stop: 40034, Start Num: 12
Candidate Starts for Martin_62:
(6, 40462), (Start: 12 @40393 has 175 MA's), (Start: 17 @40363 has 2 MA's), (23, 40342), (33, 40291), (35, 40285), (53, 40147), (67, 40054),

Gene: McGalleon_61 Start: 41108, Stop: 40749, Start Num: 12
Candidate Starts for McGalleon_61:
(2, 41255), (Start: 12 @41108 has 175 MA's), (Start: 14 @41090 has 2 MA's), (16, 41081), (Start: 18 @41075 has 1 MA's), (31, 41012), (39, 40967), (51, 40877), (53, 40862), (55, 40847), (60, 40802), (67, 40769),

Gene: Mercedes_50 Start: 37148, Stop: 36795, Start Num: 12
Candidate Starts for Mercedes_50:
(9, 37196), (Start: 12 @37148 has 175 MA's), (Start: 17 @37118 has 2 MA's), (30, 37055), (46, 36941), (54, 36887), (65, 36830),

Gene: Merida02_62 Start: 40082, Stop: 39825, Start Num: 33
Candidate Starts for Merida02_62:

(6, 40253), (Start: 12 @40184 has 175 MA's), (Start: 17 @40154 has 2 MA's), (23, 40133), (33, 40082), (35, 40076), (53, 39938), (67, 39845),

Gene: MillyPhilly_61 Start: 40381, Stop: 40022, Start Num: 12
Candidate Starts for MillyPhilly_61:
(6, 40450), (Start: 12 @40381 has 175 MA's), (Start: 17 @40351 has 2 MA's), (23, 40330), (33, 40279), (35, 40273), (53, 40135), (67, 40042),

Gene: MiniVolent_58 Start: 38995, Stop: 38651, Start Num: 12
Candidate Starts for MiniVolent_58:
(Start: 12 @38995 has 175 MA's), (50, 38761),

Gene: MonChoix_59 Start: 40074, Stop: 39703, Start Num: 12
Candidate Starts for MonChoix_59:
(Start: 12 @40074 has 175 MA's), (Start: 18 @40041 has 1 MA's), (33, 39966), (40, 39918), (44, 39870), (49, 39846), (50, 39834), (59, 39765), (63, 39747), (67, 39723),

Gene: Morrigan_56 Start: 36925, Stop: 36575, Start Num: 12
Candidate Starts for Morrigan_56:
(Start: 12 @36925 has 175 MA's), (Start: 17 @36895 has 2 MA's), (37, 36808),

Gene: MrWorldwide_61 Start: 40391, Stop: 40032, Start Num: 12
Candidate Starts for MrWorldwide_61:
(6, 40460), (Start: 12 @40391 has 175 MA's), (Start: 17 @40361 has 2 MA's), (23, 40340), (33, 40289), (35, 40283), (53, 40145), (67, 40052),

Gene: Nagem_61 Start: 40427, Stop: 40068, Start Num: 12
Candidate Starts for Nagem_61:
(6, 40496), (Start: 12 @40427 has 175 MA's), (Start: 17 @40397 has 2 MA's), (23, 40376), (33, 40325), (35, 40319), (53, 40181), (67, 40088),

Gene: Nattles_60 Start: 40124, Stop: 39765, Start Num: 12
Candidate Starts for Nattles_60:
(Start: 12 @40124 has 175 MA's), (Start: 17 @40094 has 2 MA's), (23, 40073), (33, 40022), (35, 40016), (53, 39878), (67, 39785),

Gene: Nebulous_52 Start: 38837, Stop: 38487, Start Num: 12
Candidate Starts for Nebulous_52:
(Start: 12 @38837 has 175 MA's), (Start: 14 @38819 has 2 MA's), (Start: 17 @38807 has 2 MA's), (19, 38801), (37, 38720), (46, 38630), (50, 38603),

Gene: Neferthena_57 Start: 38578, Stop: 38228, Start Num: 12
Candidate Starts for Neferthena_57:
(Start: 12 @38578 has 175 MA's), (Start: 14 @38560 has 2 MA's), (Start: 17 @38548 has 2 MA's), (19, 38542), (37, 38461), (46, 38371), (50, 38344),

Gene: NickSell_61 Start: 40394, Stop: 40035, Start Num: 12
Candidate Starts for NickSell_61:
(6, 40463), (Start: 12 @40394 has 175 MA's), (Start: 17 @40364 has 2 MA's), (23, 40343), (33, 40292), (35, 40286), (53, 40148), (67, 40055),

Gene: Nucci_57 Start: 38325, Stop: 37984, Start Num: 12
Candidate Starts for Nucci_57:

(Start: 12 @38325 has 175 MA's), (21, 38280), (37, 38208), (50, 38091),

Gene: Oats_60 Start: 40137, Stop: 39778, Start Num: 12
Candidate Starts for Oats_60:
(6, 40206), (Start: 12 @40137 has 175 MA's), (Start: 17 @40107 has 2 MA's), (23, 40086), (33, 40035), (35, 40029), (53, 39891), (67, 39798),

Gene: OldNelly_61 Start: 40181, Stop: 39822, Start Num: 12
Candidate Starts for OldNelly_61:
(6, 40250), (Start: 12 @40181 has 175 MA's), (Start: 17 @40151 has 2 MA's), (23, 40130), (33, 40079), (35, 40073), (53, 39935), (67, 39842),

Gene: Oxtober96_62 Start: 40379, Stop: 40020, Start Num: 12
Candidate Starts for Oxtober96_62:
(Start: 12 @40379 has 175 MA's), (Start: 17 @40349 has 2 MA's), (23, 40328), (33, 40277), (35, 40271), (53, 40133), (67, 40040),

Gene: Papafritta_60 Start: 40142, Stop: 39783, Start Num: 12
Candidate Starts for Papafritta_60:
(6, 40211), (Start: 12 @40142 has 175 MA's), (Start: 17 @40112 has 2 MA's), (23, 40091), (33, 40040), (35, 40034), (53, 39896), (67, 39803),

Gene: ParleG_61 Start: 40391, Stop: 40032, Start Num: 12
Candidate Starts for ParleG_61:
(6, 40460), (Start: 12 @40391 has 175 MA's), (Start: 17 @40361 has 2 MA's), (23, 40340), (33, 40289), (35, 40283), (53, 40145), (67, 40052),

Gene: Peep_61 Start: 40437, Stop: 40078, Start Num: 12
Candidate Starts for Peep_61:
(Start: 12 @40437 has 175 MA's), (Start: 17 @40407 has 2 MA's), (23, 40386), (33, 40335), (35, 40329), (53, 40191), (67, 40098),

Gene: Penta_52 Start: 36460, Stop: 36074, Start Num: 12
Candidate Starts for Penta_52:
(4, 36589), (5, 36556), (Start: 12 @36460 has 175 MA's), (32, 36361), (35, 36352), (37, 36343), (44, 36262), (45, 36256), (56, 36175), (67, 36094), (68, 36079),

Gene: Peppino_60 Start: 40372, Stop: 39977, Start Num: 12
Candidate Starts for Peppino_60:
(2, 40504), (6, 40441), (Start: 12 @40372 has 175 MA's), (16, 40345), (23, 40321), (25, 40309), (26, 40306), (34, 40252), (40, 40207), (45, 40153), (47, 40141), (48, 40138), (64, 40027), (67, 39997),

Gene: Pherbot_55 Start: 38149, Stop: 37805, Start Num: 12
Candidate Starts for Pherbot_55:
(Start: 12 @38149 has 175 MA's), (24, 38089), (28, 38077), (30, 38056), (37, 38032), (41, 37996), (55, 37882),

Gene: Pherferi_61 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for Pherferi_61:
(6, 40453), (Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: Phiderman_61 Start: 40381, Stop: 40022, Start Num: 12

Candidate Starts for Phiderman_61:
(6, 40450), (Start: 12 @40381 has 175 MA's), (Start: 17 @40351 has 2 MA's), (23, 40330), (33, 40279), (35, 40273), (53, 40135), (67, 40042),

Gene: PhillyPhantom_60 Start: 40256, Stop: 39888, Start Num: 14
Candidate Starts for PhillyPhantom_60:
(2, 40406), (6, 40343), (Start: 12 @40274 has 175 MA's), (Start: 14 @40256 has 2 MA's), (23, 40223), (25, 40211), (35, 40160), (40, 40118), (47, 40052), (57, 39974), (64, 39938), (67, 39908),

Gene: Phireproof_61 Start: 40390, Stop: 40031, Start Num: 12
Candidate Starts for Phireproof_61:
(6, 40459), (Start: 12 @40390 has 175 MA's), (Start: 17 @40360 has 2 MA's), (23, 40339), (33, 40288), (35, 40282), (53, 40144), (67, 40051),

Gene: PhredFlintston_61 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for PhredFlintston_61:
(6, 40453), (Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: Phriends_60 Start: 40185, Stop: 39826, Start Num: 12
Candidate Starts for Phriends_60:
(6, 40254), (Start: 12 @40185 has 175 MA's), (Start: 17 @40155 has 2 MA's), (23, 40134), (33, 40083), (35, 40077), (53, 39939), (67, 39846),

Gene: Pocket_60 Start: 40164, Stop: 39805, Start Num: 12
Candidate Starts for Pocket_60:
(Start: 12 @40164 has 175 MA's), (Start: 17 @40134 has 2 MA's), (23, 40113), (33, 40062), (35, 40056), (53, 39918), (67, 39825),

Gene: PrincePhergus_55 Start: 38165, Stop: 37821, Start Num: 12
Candidate Starts for PrincePhergus_55:
(Start: 12 @38165 has 175 MA's), (24, 38105), (28, 38093), (30, 38072), (37, 38048), (41, 38012), (55, 37898),

Gene: PuppyEggo_61 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for PuppyEggo_61:
(6, 40453), (Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: QuadZero_56 Start: 37089, Stop: 36742, Start Num: 12
Candidate Starts for QuadZero_56:
(Start: 12 @37089 has 175 MA's), (Start: 17 @37059 has 2 MA's), (37, 36972), (46, 36882), (61, 36780),

Gene: Quartz_58 Start: 38469, Stop: 38128, Start Num: 12
Candidate Starts for Quartz_58:
(Start: 12 @38469 has 175 MA's), (21, 38424), (37, 38352), (50, 38235),

Gene: Raccoon_60 Start: 40316, Stop: 39948, Start Num: 14
Candidate Starts for Raccoon_60:
(6, 40403), (Start: 12 @40334 has 175 MA's), (Start: 14 @40316 has 2 MA's), (23, 40283), (25, 40271), (35, 40220), (40, 40178), (47, 40112), (57, 40034), (64, 39998), (67, 39968),

Gene: Rapheph_61 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for Rapheph_61:
(Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: Raptor_61 Start: 40382, Stop: 40023, Start Num: 12
Candidate Starts for Raptor_61:
(6, 40451), (Start: 12 @40382 has 175 MA's), (Start: 17 @40352 has 2 MA's), (23, 40331), (33, 40280), (35, 40274), (53, 40136), (67, 40043),

Gene: Redfield_60 Start: 40382, Stop: 39987, Start Num: 12
Candidate Starts for Redfield_60:
(6, 40451), (Start: 12 @40382 has 175 MA's), (16, 40355), (23, 40331), (25, 40319), (34, 40262), (40, 40217), (45, 40163), (47, 40151), (48, 40148), (64, 40037), (67, 40007),

Gene: RenegadeRaider_57 Start: 38086, Stop: 37742, Start Num: 12
Candidate Starts for RenegadeRaider_57:
(Start: 12 @38086 has 175 MA's), (24, 38026), (28, 38014), (30, 37993), (37, 37969), (41, 37933), (55, 37819), (66, 37759),

Gene: Renzie_61 Start: 40440, Stop: 40081, Start Num: 12
Candidate Starts for Renzie_61:
(Start: 12 @40440 has 175 MA's), (Start: 17 @40410 has 2 MA's), (23, 40389), (33, 40338), (35, 40332), (53, 40194), (67, 40101),

Gene: Riyhil_61 Start: 40394, Stop: 40035, Start Num: 12
Candidate Starts for Riyhil_61:
(Start: 12 @40394 has 175 MA's), (Start: 17 @40364 has 2 MA's), (23, 40343), (33, 40292), (35, 40286), (53, 40148), (67, 40055),

Gene: Robinson_61 Start: 40456, Stop: 40097, Start Num: 12
Candidate Starts for Robinson_61:
(6, 40525), (Start: 12 @40456 has 175 MA's), (Start: 17 @40426 has 2 MA's), (23, 40405), (33, 40354), (35, 40348), (53, 40210), (67, 40117),

Gene: Rog141_60 Start: 40127, Stop: 39768, Start Num: 12
Candidate Starts for Rog141_60:
(6, 40196), (Start: 12 @40127 has 175 MA's), (Start: 17 @40097 has 2 MA's), (23, 40076), (33, 40025), (35, 40019), (53, 39881), (67, 39788),

Gene: RosieMae_60 Start: 40188, Stop: 39829, Start Num: 12
Candidate Starts for RosieMae_60:
(Start: 12 @40188 has 175 MA's), (Start: 17 @40158 has 2 MA's), (23, 40137), (33, 40086), (35, 40080), (53, 39942), (67, 39849),

Gene: SJay_61 Start: 40428, Stop: 40069, Start Num: 12
Candidate Starts for SJay_61:
(6, 40497), (Start: 12 @40428 has 175 MA's), (Start: 17 @40398 has 2 MA's), (23, 40377), (33, 40326), (35, 40320), (53, 40182), (67, 40089),

Gene: Schimmels22_53 Start: 36893, Stop: 36513, Start Num: 12
Candidate Starts for Schimmels22_53:

(Start: 12 @36893 has 175 MA's), (32, 36794), (35, 36785), (37, 36776), (44, 36695), (45, 36689), (56, 36608), (67, 36527),

Gene: Schnapsidee_60 Start: 40324, Stop: 39929, Start Num: 12
Candidate Starts for Schnapsidee_60:
(2, 40456), (6, 40393), (Start: 12 @40324 has 175 MA's), (16, 40297), (23, 40273), (25, 40261), (34, 40204), (40, 40159), (45, 40105), (47, 40093), (48, 40090), (64, 39979), (67, 39949),

Gene: Scissor2024_54 Start: 36539, Stop: 36159, Start Num: 12
Candidate Starts for Scissor2024_54:
(Start: 12 @36539 has 175 MA's), (32, 36440), (35, 36431), (37, 36422), (44, 36341), (45, 36335), (56, 36254), (67, 36173),

Gene: Sedgewig_60 Start: 40088, Stop: 39729, Start Num: 12
Candidate Starts for Sedgewig_60:
(Start: 12 @40088 has 175 MA's), (Start: 17 @40058 has 2 MA's), (23, 40037), (33, 39986), (35, 39980), (53, 39842), (67, 39749),

Gene: ShaiHulud_61 Start: 40393, Stop: 40034, Start Num: 12
Candidate Starts for ShaiHulud_61:
(6, 40462), (Start: 12 @40393 has 175 MA's), (Start: 17 @40363 has 2 MA's), (23, 40342), (33, 40291), (35, 40285), (53, 40147), (67, 40054),

Gene: Shee_61 Start: 40381, Stop: 40022, Start Num: 12
Candidate Starts for Shee_61:
(6, 40450), (Start: 12 @40381 has 175 MA's), (Start: 17 @40351 has 2 MA's), (23, 40330), (33, 40279), (35, 40273), (53, 40135), (67, 40042),

Gene: Sinatra_56 Start: 38160, Stop: 37816, Start Num: 12
Candidate Starts for Sinatra_56:
(Start: 12 @38160 has 175 MA's), (24, 38100), (28, 38088), (30, 38067), (37, 38043), (41, 38007), (55, 37893),

Gene: SirVictor_57 Start: 38742, Stop: 38404, Start Num: 12
Candidate Starts for SirVictor_57:
(Start: 12 @38742 has 175 MA's), (Start: 18 @38709 has 1 MA's), (28, 38670), (30, 38649), (37, 38625), (38, 38619), (41, 38589), (46, 38535), (55, 38475), (66, 38415),

Gene: SoilGremlin_61 Start: 40178, Stop: 39819, Start Num: 12
Candidate Starts for SoilGremlin_61:
(6, 40247), (Start: 12 @40178 has 175 MA's), (Start: 17 @40148 has 2 MA's), (23, 40127), (33, 40076), (35, 40070), (53, 39932), (67, 39839),

Gene: SolidSnake_62 Start: 40075, Stop: 39818, Start Num: 33
Candidate Starts for SolidSnake_62:
(6, 40246), (Start: 12 @40177 has 175 MA's), (Start: 17 @40147 has 2 MA's), (23, 40126), (33, 40075), (35, 40069), (53, 39931), (67, 39838),

Gene: SonOfLevi_61 Start: 40155, Stop: 39796, Start Num: 12
Candidate Starts for SonOfLevi_61:
(Start: 12 @40155 has 175 MA's), (Start: 17 @40125 has 2 MA's), (23, 40104), (33, 40053), (35, 40047), (53, 39909), (67, 39816),

Gene: Soror1_59 Start: 40196, Stop: 39810, Start Num: 12
Candidate Starts for Soror1_59:
(2, 40328), (6, 40265), (Start: 12 @40196 has 175 MA's), (Start: 14 @40178 has 2 MA's), (23, 40145), (25, 40133), (35, 40082), (40, 40040), (47, 39974), (57, 39896), (64, 39860), (67, 39830),

Gene: Stanktossa_60 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for Stanktossa_60:
(6, 40453), (Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: StingRay_60 Start: 40178, Stop: 39819, Start Num: 12
Candidate Starts for StingRay_60:
(6, 40247), (Start: 12 @40178 has 175 MA's), (Start: 17 @40148 has 2 MA's), (23, 40127), (33, 40076), (35, 40070), (53, 39932), (67, 39839),

Gene: StirfryIV_60 Start: 40100, Stop: 39741, Start Num: 12
Candidate Starts for StirfryIV_60:
(6, 40169), (Start: 12 @40100 has 175 MA's), (Start: 17 @40070 has 2 MA's), (23, 40049), (33, 39998), (35, 39992), (53, 39854), (67, 39761),

Gene: Stormbreaker8_59 Start: 40191, Stop: 39796, Start Num: 12
Candidate Starts for Stormbreaker8_59:
(2, 40323), (6, 40260), (Start: 12 @40191 has 175 MA's), (16, 40164), (23, 40140), (25, 40128), (26, 40125), (34, 40071), (40, 40026), (45, 39972), (47, 39960), (48, 39957), (64, 39846), (67, 39816),

Gene: Strathdee_61 Start: 40383, Stop: 40024, Start Num: 12
Candidate Starts for Strathdee_61:
(Start: 12 @40383 has 175 MA's), (Start: 17 @40353 has 2 MA's), (23, 40332), (33, 40281), (35, 40275), (53, 40137), (67, 40044),

Gene: Superfresh_61 Start: 40440, Stop: 40081, Start Num: 12
Candidate Starts for Superfresh_61:
(Start: 12 @40440 has 175 MA's), (Start: 17 @40410 has 2 MA's), (23, 40389), (33, 40338), (35, 40332), (53, 40194), (67, 40101),

Gene: Symere_60 Start: 40098, Stop: 39739, Start Num: 12
Candidate Starts for Symere_60:
(Start: 12 @40098 has 175 MA's), (Start: 17 @40068 has 2 MA's), (23, 40047), (33, 39996), (35, 39990), (53, 39852), (67, 39759),

Gene: TatarkaPM_61 Start: 40394, Stop: 40035, Start Num: 12
Candidate Starts for TatarkaPM_61:
(6, 40463), (Start: 12 @40394 has 175 MA's), (Start: 17 @40364 has 2 MA's), (23, 40343), (33, 40292), (35, 40286), (53, 40148), (67, 40055),

Gene: Teagan_61 Start: 40374, Stop: 40015, Start Num: 12
Candidate Starts for Teagan_61:
(6, 40443), (Start: 12 @40374 has 175 MA's), (Start: 17 @40344 has 2 MA's), (23, 40323), (33, 40272), (35, 40266), (53, 40128), (67, 40035),

Gene: TeddyBear_60 Start: 40137, Stop: 39778, Start Num: 12
Candidate Starts for TeddyBear_60:

(6, 40206), (Start: 12 @40137 has 175 MA's), (Start: 17 @40107 has 2 MA's), (23, 40086), (33, 40035), (35, 40029), (53, 39891), (67, 39798),

Gene: Tenda_60 Start: 40135, Stop: 39776, Start Num: 12
Candidate Starts for Tenda_60:
(6, 40204), (Start: 12 @40135 has 175 MA's), (Start: 17 @40105 has 2 MA's), (23, 40084), (33, 40033), (35, 40027), (53, 39889), (67, 39796),

Gene: Thompsone_61 Start: 40381, Stop: 40022, Start Num: 12
Candidate Starts for Thompsone_61:
(Start: 12 @40381 has 175 MA's), (Start: 17 @40351 has 2 MA's), (23, 40330), (33, 40279), (35, 40273), (53, 40135), (67, 40042),

Gene: Thorongil_61 Start: 39898, Stop: 39539, Start Num: 12
Candidate Starts for Thorongil_61:
(6, 39967), (Start: 12 @39898 has 175 MA's), (Start: 17 @39868 has 2 MA's), (23, 39847), (33, 39796), (35, 39790), (53, 39652), (67, 39559),

Gene: TinSulphur_62 Start: 40390, Stop: 40031, Start Num: 12
Candidate Starts for TinSulphur_62:
(6, 40459), (Start: 12 @40390 has 175 MA's), (Start: 17 @40360 has 2 MA's), (23, 40339), (33, 40288), (35, 40282), (53, 40144), (67, 40051),

Gene: Tinyman4_52 Start: 36402, Stop: 36016, Start Num: 12
Candidate Starts for Tinyman4_52:
(10, 36441), (Start: 12 @36402 has 175 MA's), (32, 36303), (35, 36294), (37, 36285), (44, 36204), (45, 36198), (52, 36159), (56, 36117), (67, 36036),

Gene: TwoBits_54 Start: 37334, Stop: 36993, Start Num: 12
Candidate Starts for TwoBits_54:
(Start: 12 @37334 has 175 MA's), (Start: 17 @37304 has 2 MA's), (21, 37289), (36, 37223), (37, 37217), (46, 37127), (61, 37025),

Gene: Vafari_55 Start: 36992, Stop: 36645, Start Num: 12
Candidate Starts for Vafari_55:
(Start: 12 @36992 has 175 MA's), (Start: 17 @36962 has 2 MA's), (37, 36875), (46, 36785), (61, 36683),

Gene: Velene_61 Start: 40380, Stop: 40021, Start Num: 12
Candidate Starts for Velene_61:
(6, 40449), (Start: 12 @40380 has 175 MA's), (Start: 17 @40350 has 2 MA's), (23, 40329), (33, 40278), (35, 40272), (53, 40134), (67, 40041),

Gene: Vispistious_61 Start: 40384, Stop: 40025, Start Num: 12
Candidate Starts for Vispistious_61:
(6, 40453), (Start: 12 @40384 has 175 MA's), (Start: 17 @40354 has 2 MA's), (23, 40333), (33, 40282), (35, 40276), (53, 40138), (67, 40045),

Gene: Wardwill_58 Start: 37127, Stop: 36780, Start Num: 12
Candidate Starts for Wardwill_58:
(Start: 12 @37127 has 175 MA's), (Start: 17 @37097 has 2 MA's), (37, 37010), (46, 36920), (61, 36818),

Gene: WestPM_52 Start: 36620, Stop: 36234, Start Num: 12
Candidate Starts for WestPM_52:
(4, 36749), (5, 36716), (Start: 12 @36620 has 175 MA's), (32, 36521), (35, 36512), (37, 36503), (44, 36422), (45, 36416), (56, 36335), (67, 36254), (68, 36239),

Gene: WildNOut_61 Start: 40377, Stop: 40018, Start Num: 12
Candidate Starts for WildNOut_61:
(Start: 12 @40377 has 175 MA's), (Start: 17 @40347 has 2 MA's), (23, 40326), (33, 40275), (35, 40269), (53, 40131), (67, 40038),

Gene: WilliamStrong_55 Start: 37542, Stop: 37192, Start Num: 12
Candidate Starts for WilliamStrong_55:
(Start: 12 @37542 has 175 MA's), (Start: 17 @37512 has 2 MA's), (22, 37494), (37, 37425),

Gene: Winzigespinne_60 Start: 40123, Stop: 39764, Start Num: 12
Candidate Starts for Winzigespinne_60:
(6, 40192), (Start: 12 @40123 has 175 MA's), (Start: 17 @40093 has 2 MA's), (23, 40072), (33, 40021), (35, 40015), (53, 39877), (67, 39784),

Gene: YuuY_58 Start: 38898, Stop: 38551, Start Num: 12
Candidate Starts for YuuY_58:
(Start: 12 @38898 has 175 MA's), (36, 38787), (43, 38706), (46, 38691),

Gene: Zada_62 Start: 40396, Stop: 40037, Start Num: 12
Candidate Starts for Zada_62:
(6, 40465), (Start: 12 @40396 has 175 MA's), (Start: 17 @40366 has 2 MA's), (23, 40345), (33, 40294), (35, 40288), (53, 40150), (67, 40057),

Gene: Zayuliv_56 Start: 37658, Stop: 37311, Start Num: 12
Candidate Starts for Zayuliv_56:
(Start: 12 @37658 has 175 MA's), (Start: 17 @37628 has 2 MA's), (37, 37541), (46, 37451), (61, 37349),

Gene: Zepp_56 Start: 37045, Stop: 36698, Start Num: 12
Candidate Starts for Zepp_56:
(Start: 12 @37045 has 175 MA's), (Start: 17 @37015 has 2 MA's), (37, 36928), (46, 36838), (61, 36736),