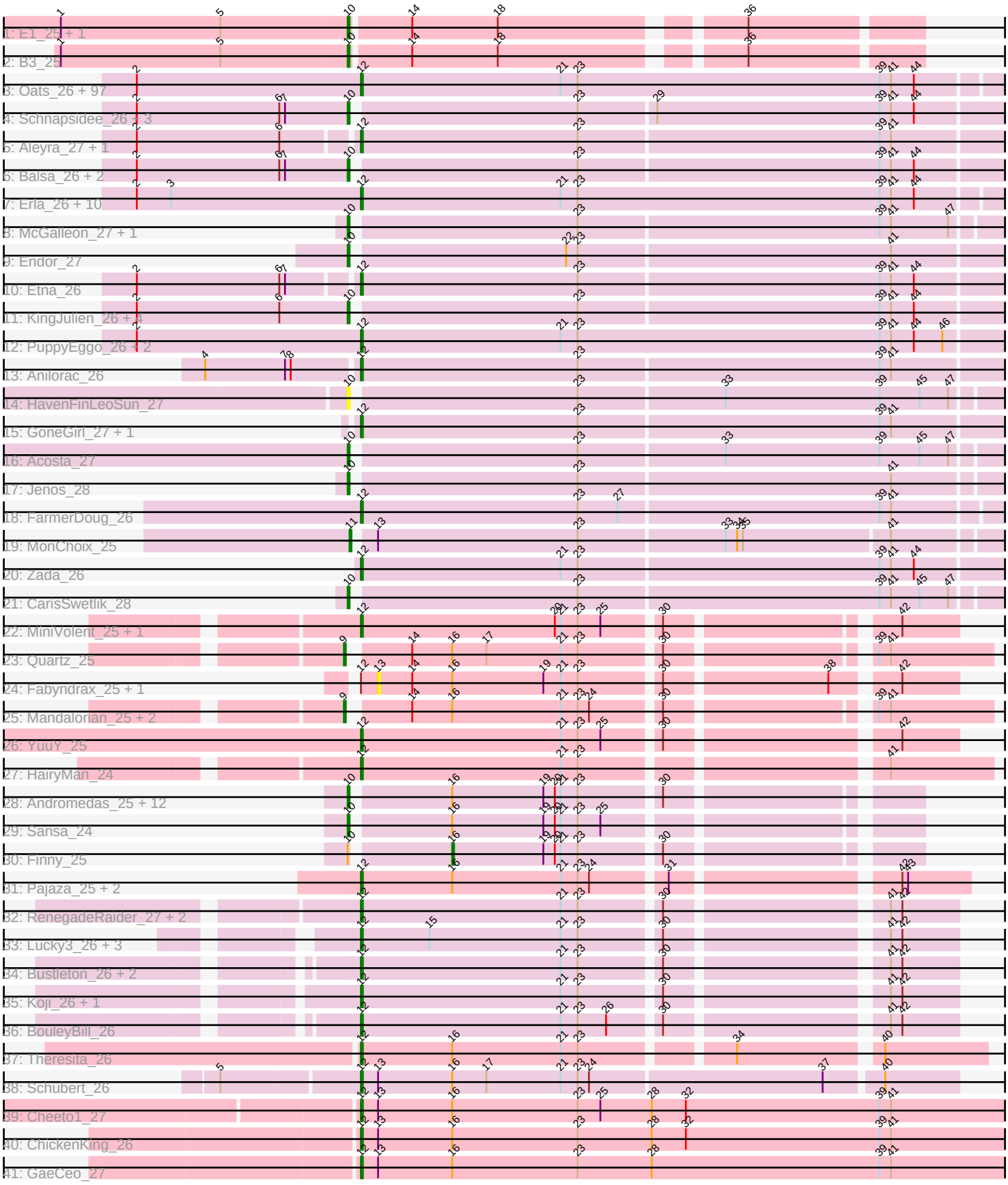
Pham 339382


1: E1_25 + 1
2: B3_25
3: Oats_26 + 97
4: Schnapsidee_26 + 3
5: Aleyra_27 + 1
6: Balsa_26 + 2
7: Erla_26 + 10
8: McGalleon_27 + 1
9: Endor_27
10: Etna_26
11: KingJulien_26 + 4
12: PuppyEggo_26 + 2
13: Anilorac_26
14: HavenFinLeoSun_27
15: GoneGirl_27 + 1
16: Acosta_27
17: Jenos_28
18: FarmerDoug_26
19: MonChoix_25
20: Zada_26
21: CarisSwetlik_28
22: MiniVolent_25 + 1
23: Quartz_25
24: Fabyndrax_25 + 1
25: Mandalorian_25 + 2
26: YuuY_25
27: HairyMan_24
28: Andromedas_25 + 12
29: Sansa_24
30: Finny_25
31: Pajaza_25 + 2
32: RenegadeRaider_27 + 2
33: Lucky3_26 + 3
34: Bustleton_26 + 2
35: Koji_26 + 1
36: BouleyBill_26
37: Theresita_26
38: Schubert_26
39: Cheeto1_27
40: ChickenKing_26
41: GaeCeo_27

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 339382 Report

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

Pham number 339382 has 189 members, 13 are drafts.

Phages represented in each track:
• Track 1 : E1_25, Anatole_25
• Track 2 : B3_25
• Track 3 : Oats_26, Clancy_26, Espinosa_26, JasperRussell_26, Lovelyunicorn_26, SoilGremlin_26, StirfryIV_26, Exploradora_26, Jerbirus_27, Oxtober96_26, Phireproof_26, Renzie_26, Ilzat_26, ParleG_26, AranulaLuti_26, Asta_26, HanSolo_26, Velene_26, TinSulphur_26, KannH_26, Inventa_26, Ludgate_26, Riyhil_26, ManRay_26, Teagan_26, CoraRita_26, Shee_26, MillyPhilly_26, Aubergine_26, HankSprout_27, Alyxandracam_26, Gargoyle_26, Kurt1_26, Rog141_26, Rapheph_26, Delphidian_26, Nagem_26, TatarkaPM_26, Papafritta_26, Antoinette_26, AlexAdler_26, Winzigespinne_26, SJay_26, Janus167_26, Knox_26, Peep_26, Symere_26, Tenda_26, JeriBeth_26, AxiPup_26, Phriends_26, GoingMerry_26, Baines_26, Convict_26, Superfresh_26, Byron23_26, Pherferi_26, Chako_26, SolidSnake_27, Pocket_26, RosieMae_26, Dave_26, Gubbabump_26, Blage_26, WildNOut_26, Kouch_26, Gershwin_26, Den3_26, Stanktossa_26, PhredFlintston_26, MaeLinda_26, NickSell_26, Martin_27, Dothraki_26, OldNelly_26, Thompsone_26, Greys_26, HungryHenry_26, Merida02_27, Bandik_26, Figueroism_26, Christoph_26, Kale_26, Sedgewig_26, Robinson_26, TeddyBear_26, Ioannes_26, BeautPeep30_26, BigRedClifford_26, Duocatuli_26, BonesMcCoy_26, Benjalauren_27, Strathdee_26, StingRay_26, Phiderman_26, Thorongil_26, Raptor_26, MrWorldwide_26
• Track 4 : Schnapsidee_26, Peppino_26, Raccoon_26, BeeBee8_27
• Track 5 : Aleyra_27, Agente005_27
• Track 6 : Balsa_26, Hamlet_26, Redfield_26
• Track 7 : Erla_26, Nattles_26, SonOfLevi_26, Garey24_26, KellyGreen_27, Chamuel_26, Bonino_26, Calix_26, Etta_26, Gelo_26, Klimt_26
• Track 8 : McGalleon_27, JasonD_28
• Track 9 : Endor_27
• Track 10 : Etna_26
• Track 11 : KingJulien_26, PhillyPhantom_26, Soror1_26, Leafus_26, Stormbreaker8_26
• Track 12 : PuppyEggo_26, Vispistious_26, ShaiHulud_26
• Track 13 : Anilorac_26
• Track 14 : HavenFinLeoSun_27
• Track 15 : GoneGirl_27, GardenB_26
• Track 16 : Acosta_27
• Track 17 : Jenos_28
• Track 18 : FarmerDoug_26

• Track 19 : MonChoix_25
• Track 20 : Zada_26
• Track 21 : CarisSwetlik_28
• Track 22 : MiniVolent_25, Juanyo_25
• Track 23 : Quartz_25
• Track 24 : Fabyndrax_25, Cidela_25
• Track 25 : Mandalorian_25, Nucci_25, Carostasia_25
• Track 26 : YuuY_25
• Track 27 : HairyMan_24
• Track 28 : Andromedas_25, Orpington_25, ChikPic_25, MCubed_25, Xebius_25, Eleri_25, Glamour_24, Phanita_25, PSirce_25, Zenitsu_25, Saratos_25, Shamu_25, ColaCorta_25
• Track 29 : Sansa_24
• Track 30 : Finny_25
• Track 31 : Pajaza_25, Casey_25, Pikmin_25
• Track 32 : RenegadeRaider_27, Sinatra_26, PrincePhergus_26
• Track 33 : Lucky3_26, Guetzie_26, Golden_26, SirVictor_26
• Track 34 : Bustleton_26, Pherbot_26, Kauala_26
• Track 35 : Koji_26, Jingles_26
• Track 36 : BouleyBill_26
• Track 37 : Theresita_26
• Track 38 : Schubert_26
• Track 39 : Cheeto1_27
• Track 40 : ChickenKing_26
• Track 41 : GaeCeo_27

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 137 of the 176 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agente005_27, AlexAdler_26, Aleyra_27, Alyxandracam_26, Anilorac_26, Antoinette_26, AranulaLuti_26, Asta_26, Aubergine_26, AxiPup_26, Baines_26, Bandik_26, BeautPeep30_26, Benjalauren_27, BigRedClifford_26, Blage_26, BonesMcCoy_26, Bonino_26, BouleyBill_26, Bustleton_26, Byron23_26, Calix_26, Casey_25, Chako_26, Chamuel_26, Cheeto1_27, ChickenKing_26, Christoph_26, Clancy_26, Convict_26, CoraRita_26, Dave_26, Delphidian_26, Den3_26, Dothraki_26, Duocatuli_26, Erla_26, Espinosa_26, Etna_26, Etta_26, Exploradora_26, FarmerDoug_26, Figueroism_26, GaeCeo_27, GardenB_26, Garey24_26, Gargoyle_26, Gelo_26, Gershwin_26, GoingMerry_26, Golden_26, GoneGirl_27, Greys_26, Gubbabump_26, Guetzie_26, HairyMan_24, HanSolo_26, HankSprout_27, HungryHenry_26, Ilzat_26, Inventa_26, Ioannes_26, Janus167_26, JasperRussell_26, Jerbirus_27, JeriBeth_26, Jingles_26, Juanyo_25, Kale_26, KannH_26, Kauala_26, KellyGreen_27, Klimt_26, Knox_26, Koji_26, Kouch_26, Kurt1_26, Lovelyunicorn_26, Lucky3_26, Ludgate_26, MaeLinda_26, ManRay_26, Martin_27, Merida02_27, MillyPhilly_26, MiniVolent_25, MrWorldwide_26, Nagem_26, Nattles_26, NickSell_26, Oats_26, OldNelly_26, Oxtober96_26, Pajaza_25, Papafritta_26, ParleG_26, Peep_26, Pherbot_26, Pherferi_26, Phiderman_26, Phireproof_26, PhredFlintston_26, Phriends_26, Pikmin_25,

Pocket_26, PrincePhergus_26, PuppyEggo_26, Rapheph_26, Raptor_26, RenegadeRaider_27, Renzie_26, Riyhil_26, Robinson_26, Rog141_26, RosieMae_26, SJay_26, Schubert_26, Sedgewig_26, ShaiHulud_26, Shee_26, Sinatra_26, SirVictor_26, SoilGremlin_26, SolidSnake_27, SonOfLevi_26, Stanktossa_26, StingRay_26, StirfryIV_26, Strathdee_26, Superfresh_26, Symere_26, TatarkaPM_26, Teagan_26, TeddyBear_26, Tenda_26, Theresita_26, Thompsone_26, Thorongil_26, TinSulphur_26, Velene_26, Vispistious_26, WildNOut_26, Winzigespinne_26, YuuY_25, Zada_26,

Genes that have the "Most Annotated" start but do not call it:
• Cidela_25, Fabyndrax_25,

Genes that do not have the "Most Annotated" start:
• Acosta_27, Anatole_25, Andromedas_25, B3_25, Balsa_26, BeeBee8_27, CarisSwetlik_28, Carostasia_25, ChikPic_25, ColaCorta_25, E1_25, Eleri_25, Endor_27, Finny_25, Glamour_24, Hamlet_26, HavenFinLeoSun_27, JasonD_28, Jenos_28, KingJulien_26, Leafus_26, MCubed_25, Mandalorian_25, McGalleon_27, MonChoix_25, Nucci_25, Orpington_25, PSirce_25, Peppino_26, Phanita_25, PhillyPhantom_26, Quartz_25, Raccoon_26, Redfield_26, Sansa_24, Saratos_25, Schnapsidee_26, Shamu_25, Soror1_26, Stormbreaker8_26, Xebius_25, Zenitsu_25,

Summary by start number:

Start 9:
• Found in 4 of 189 (2.1%) of genes in pham
• Manual Annotations of this start: 4 of 176
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Carostasia_25 (EA10), Mandalorian_25 (EA10), Nucci_25 (EA10), Quartz_25 (EA10),

Start 10:
• Found in 37 of 189 (19.6%) of genes in pham
• Manual Annotations of this start: 33 of 176
• Called 97.3% of time when present
• Phage (with cluster) where this start called: Acosta_27 (EA1), Anatole_25 (BV), Andromedas_25 (EA2), B3_25 (BV), Balsa_26 (EA1), BeeBee8_27 (EA1), CarisSwetlik_28 (EA1), ChikPic_25 (EA2), ColaCorta_25 (EA2), E1_25 (BV), Eleri_25 (EA2), Endor_27 (EA1), Glamour_24 (EA2), Hamlet_26 (EA1), HavenFinLeoSun_27 (EA1), JasonD_28 (EA1), Jenos_28 (EA1), KingJulien_26 (EA1), Leafus_26 (EA1), MCubed_25 (EA2), McGalleon_27 (EA1), Orpington_25 (EA2), PSirce_25 (EA2), Peppino_26 (EA1), Phanita_25 (EA2), PhillyPhantom_26 (EA1), Raccoon_26 (EA1), Redfield_26 (EA1), Sansa_24 (EA2), Saratos_25 (EA2), Schnapsidee_26 (EA1), Shamu_25 (EA2), Soror1_26 (EA1), Stormbreaker8_26 (EA1), Xebius_25 (EA2), Zenitsu_25 (EA2),

Start 11:
• Found in 1 of 189 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 176
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MonChoix_25 (EA1),

Start 12:
• Found in 147 of 189 (77.8%) of genes in pham

• Manual Annotations of this start: 137 of 176
• Called 98.6% of time when present
• Phage (with cluster) where this start called: Agente005_27 (EA1), AlexAdler_26 (EA1), Aleyra_27 (EA1), Alyxandracam_26 (EA1), Anilorac_26 (EA1), Antoinette_26 (EA1), AranulaLuti_26 (EA1), Asta_26 (EA1), Aubergine_26 (EA1), AxiPup_26 (EA1), Baines_26 (EA1), Bandik_26 (EA1), BeautPeep30_26 (EA1), Benjalauren_27 (EA1), BigRedClifford_26 (EA1), Blage_26 (EA1), BonesMcCoy_26 (EA1), Bonino_26 (EA1), BouleyBill_26 (EA4), Bustleton_26 (EA4), Byron23_26 (EA1), Calix_26 (EA1), Casey_25 (EA3), Chako_26 (EA1), Chamuel_26 (EA1), Cheeto1_27 (EA9), ChickenKing_26 (EA9), Christoph_26 (EA1), Clancy_26 (EA1), Convict_26 (EA1), CoraRita_26 (EA1), Dave_26 (EA1), Delphidian_26 (EA1), Den3_26 (EA1), Dothraki_26 (EA1), Duocatuli_26 (EA1), Erla_26 (EA1), Espinosa_26 (EA1), Etna_26 (EA1), Etta_26 (EA1), Exploradora_26 (EA1), FarmerDoug_26 (EA1), Figueroism_26 (EA1), GaeCeo_27 (EA9), GardenB_26 (EA1), Garey24_26 (EA1), Gargoyle_26 (EA1), Gelo_26 (EA1), Gershwin_26 (EA1), GoingMerry_26 (EA1), Golden_26 (EA4), GoneGirl_27 (EA1), Greys_26 (EA1), Gubbabump_26 (EA1), Guetzie_26 (EA4), HairyMan_24 (EA10), HanSolo_26 (EA1), HankSprout_27 (EA1), HungryHenry_26 (EA1), Ilzat_26 (EA1), Inventa_26 (EA1), Ioannes_26 (EA1), Janus167_26 (EA1), JasperRussell_26 (EA1), Jerbirus_27 (EA1), JeriBeth_26 (EA1), Jingles_26 (EA4), Juanyo_25 (EA10), Kale_26 (EA1), KannH_26 (EA1), Kauala_26 (EA4), KellyGreen_27 (EA1), Klimt_26 (EA1), Knox_26 (EA1), Koji_26 (EA4), Kouch_26 (EA1), Kurt1_26 (EA1), Lovelyunicorn_26 (EA1), Lucky3_26 (EA4), Ludgate_26 (EA1), MaeLinda_26 (EA1), ManRay_26 (EA1), Martin_27 (EA1), Merida02_27 (EA1), MillyPhilly_26 (EA1), MiniVolent_25 (EA10), MrWorldwide_26 (EA1), Nagem_26 (EA1), Nattles_26 (EA1), NickSell_26 (EA1), Oats_26 (EA1), OldNelly_26 (EA1), Oxtober96_26 (EA1), Pajaza_25 (EA3), Papafritta_26 (EA1), ParleG_26 (EA1), Peep_26 (EA1), Pherbot_26 (EA4), Pherferi_26 (EA1), Phiderman_26 (EA1), Phireproof_26 (EA1), PhredFlintston_26 (EA1), Phriends_26 (EA1), Pikmin_25 (EA3), Pocket_26 (EA1), PrincePhergus_26 (EA4), PuppyEggo_26 (EA1), Rapheph_26 (EA1), Raptor_26 (EA1), RenegadeRaider_27 (EA4), Renzie_26 (EA1), Riyhil_26 (EA1), Robinson_26 (EA1), Rog141_26 (EA1), RosieMae_26 (EA1), SJay_26 (EA1), Schubert_26 (EA8), Sedgewig_26 (EA1), ShaiHulud_26 (EA1), Shee_26 (EA1), Sinatra_26 (EA4), SirVictor_26 (EA4), SoilGremlin_26 (EA1), SolidSnake_27 (EA1), SonOfLevi_26 (EA1), Stanktossa_26 (EA1), StingRay_26 (EA1), StirfryIV_26 (EA1), Strathdee_26 (EA1), Superfresh_26 (EA1), Symere_26 (EA1), TatarkaPM_26 (EA1), Teagan_26 (EA1), TeddyBear_26 (EA1), Tenda_26 (EA1), Theresita_26 (EA7), Thompsone_26 (EA1), Thorongil_26 (EA1), TinSulphur_26 (EA1), Velene_26 (EA1), Vispistious_26 (EA1), WildNOut_26 (EA1), Winzigespinne_26 (EA1), YuuY_25 (EA10), Zada_26 (EA1),

Start 13:
• Found in 7 of 189 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Cidela_25 (EA10), Fabyndrax_25 (EA10),

Start 16:
• Found in 29 of 189 (15.3%) of genes in pham
• Manual Annotations of this start: 1 of 176
• Called 3.4% of time when present
• Phage (with cluster) where this start called: Finny_25 (EA2),

Summary by clusters:

There are 9 clusters represented in this pham: EA10, EA9, EA8, BV, EA1, EA3, EA2, EA4, EA7,

Info for manual annotations of cluster BV:
•Start number 10 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster EA1:
•Start number 10 was manually annotated 17 times for cluster EA1.
•Start number 11 was manually annotated 1 time for cluster EA1.
•Start number 12 was manually annotated 114 times for cluster EA1.

Info for manual annotations of cluster EA10:
•Start number 9 was manually annotated 4 times for cluster EA10.
•Start number 12 was manually annotated 3 times for cluster EA10.

Info for manual annotations of cluster EA2:
•Start number 10 was manually annotated 13 times for cluster EA2.
•Start number 16 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA3:
•Start number 12 was manually annotated 3 times for cluster EA3.

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

Info for manual annotations of cluster EA7:
•Start number 12 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:
•Start number 12 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:
•Start number 12 was manually annotated 3 times for cluster EA9.

Gene Information:

Gene: Acosta_27 Start: 19782, Stop: 20120, Start Num: 10
Candidate Starts for Acosta_27:
(Start: 10 @19782 has 33 MA's), (23, 19896), (33, 19971), (39, 20052), (45, 20073), (47, 20088),

Gene: Agente005_27 Start: 19963, Stop: 20304, Start Num: 12
Candidate Starts for Agente005_27:
(2, 19852), (6, 19927), (Start: 12 @19963 has 137 MA's), (23, 20077), (39, 20233), (41, 20239),

Gene: AlexAdler_26 Start: 19482, Stop: 19826, Start Num: 12
Candidate Starts for AlexAdler_26:
(2, 19365), (Start: 12 @19482 has 137 MA's), (21, 19587), (23, 19596), (39, 19755), (41, 19761), (44, 19773),

Gene: Aleyra_27 Start: 19968, Stop: 20309, Start Num: 12
Candidate Starts for Aleyra_27:
(2, 19857), (6, 19932), (Start: 12 @19968 has 137 MA's), (23, 20082), (39, 20238), (41, 20244),

Gene: Alyxandracam_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Alyxandracam_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Anatole_25 Start: 19984, Stop: 20259, Start Num: 10
Candidate Starts for Anatole_25:
(1, 19834), (5, 19918), (Start: 10 @19984 has 33 MA's), (14, 20014), (18, 20059), (36, 20173),

Gene: Andromedas_25 Start: 19654, Stop: 19926, Start Num: 10
Candidate Starts for Andromedas_25:
(Start: 10 @19654 has 33 MA's), (Start: 16 @19702 has 1 MA's), (19, 19750), (20, 19756), (21, 19759), (23, 19768), (30, 19807),

Gene: Anilorac_26 Start: 19814, Stop: 20155, Start Num: 12
Candidate Starts for Anilorac_26:
(4, 19736), (7, 19778), (8, 19781), (Start: 12 @19814 has 137 MA's), (23, 19928), (39, 20084), (41, 20090),

Gene: Antoinette_26 Start: 19482, Stop: 19823, Start Num: 12
Candidate Starts for Antoinette_26:
(2, 19365), (Start: 12 @19482 has 137 MA's), (21, 19587), (23, 19596), (39, 19752), (41, 19758), (44, 19770),

Gene: AranulaLuti_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for AranulaLuti_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: Asta_26 Start: 19791, Stop: 20132, Start Num: 12
Candidate Starts for Asta_26:
(2, 19674), (Start: 12 @19791 has 137 MA's), (21, 19896), (23, 19905), (39, 20064), (41, 20070), (44, 20082),

Gene: Aubergine_26 Start: 19791, Stop: 20132, Start Num: 12
Candidate Starts for Aubergine_26:
(2, 19674), (Start: 12 @19791 has 137 MA's), (21, 19896), (23, 19905), (39, 20064), (41, 20070), (44, 20082),

Gene: AxiPup_26 Start: 19491, Stop: 19835, Start Num: 12
Candidate Starts for AxiPup_26:
(2, 19374), (Start: 12 @19491 has 137 MA's), (21, 19596), (23, 19605), (39, 19764), (41, 19770), (44, 19782),

Gene: B3_25 Start: 19978, Stop: 20253, Start Num: 10
Candidate Starts for B3_25:
(1, 19828), (5, 19912), (Start: 10 @19978 has 33 MA's), (14, 20008), (18, 20053), (36, 20167),

Gene: Baines_26 Start: 19778, Stop: 20119, Start Num: 12

Candidate Starts for Baines_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: Balsa_26 Start: 19811, Stop: 20152, Start Num: 10
Candidate Starts for Balsa_26:
(2, 19700), (6, 19775), (7, 19778), (Start: 10 @19811 has 33 MA's), (23, 19925), (39, 20081), (41, 20087), (44, 20099),

Gene: Bandik_26 Start: 19490, Stop: 19831, Start Num: 12
Candidate Starts for Bandik_26:
(2, 19373), (Start: 12 @19490 has 137 MA's), (21, 19595), (23, 19604), (39, 19760), (41, 19766), (44, 19778),

Gene: BeautPeep30_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for BeautPeep30_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: BeeBee8_27 Start: 19977, Stop: 20318, Start Num: 10
Candidate Starts for BeeBee8_27:
(2, 19866), (6, 19941), (7, 19944), (Start: 10 @19977 has 33 MA's), (23, 20091), (29, 20130), (39, 20247), (41, 20253), (44, 20265),

Gene: Benjalauren_27 Start: 19787, Stop: 20128, Start Num: 12
Candidate Starts for Benjalauren_27:
(2, 19670), (Start: 12 @19787 has 137 MA's), (21, 19892), (23, 19901), (39, 20060), (41, 20066), (44, 20078),

Gene: BigRedClifford_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for BigRedClifford_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Blage_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Blage_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: BonesMcCoy_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for BonesMcCoy_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Bonino_26 Start: 19767, Stop: 20108, Start Num: 12
Candidate Starts for Bonino_26:
(2, 19650), (3, 19668), (Start: 12 @19767 has 137 MA's), (21, 19872), (23, 19881), (39, 20040), (41, 20046), (44, 20058),

Gene: BouleyBill_26 Start: 20027, Stop: 20320, Start Num: 12
Candidate Starts for BouleyBill_26:
(Start: 12 @20027 has 137 MA's), (21, 20132), (23, 20141), (26, 20156), (30, 20180), (41, 20285), (42, 20291),

Gene: Bustleton_26 Start: 20027, Stop: 20320, Start Num: 12
Candidate Starts for Bustleton_26:
(Start: 12 @20027 has 137 MA's), (21, 20132), (23, 20141), (30, 20180), (41, 20285), (42, 20291),

Gene: Byron23_26 Start: 19499, Stop: 19840, Start Num: 12
Candidate Starts for Byron23_26:
(2, 19382), (Start: 12 @19499 has 137 MA's), (21, 19604), (23, 19613), (39, 19769), (41, 19775), (44, 19787),

Gene: Calix_26 Start: 19771, Stop: 20112, Start Num: 12
Candidate Starts for Calix_26:
(2, 19654), (3, 19672), (Start: 12 @19771 has 137 MA's), (21, 19876), (23, 19885), (39, 20044), (41, 20050), (44, 20062),

Gene: CarisSwetlik_28 Start: 20277, Stop: 20615, Start Num: 10
Candidate Starts for CarisSwetlik_28:
(Start: 10 @20277 has 33 MA's), (23, 20391), (39, 20547), (41, 20553), (45, 20568), (47, 20583),

Gene: Carostasia_25 Start: 19946, Stop: 20254, Start Num: 9
Candidate Starts for Carostasia_25:
(Start: 9 @19946 has 4 MA's), (14, 19973), (Start: 16 @19994 has 1 MA's), (21, 20051), (23, 20060), (24, 20066), (30, 20099), (39, 20195), (41, 20201),

Gene: Casey_25 Start: 19954, Stop: 20253, Start Num: 12
Candidate Starts for Casey_25:
(Start: 12 @19954 has 137 MA's), (Start: 16 @20002 has 1 MA's), (21, 20059), (23, 20068), (24, 20074), (31, 20110), (42, 20218), (43, 20221),

Gene: Chako_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Chako_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: Chamuel_26 Start: 19773, Stop: 20114, Start Num: 12
Candidate Starts for Chamuel_26:
(2, 19656), (3, 19674), (Start: 12 @19773 has 137 MA's), (21, 19878), (23, 19887), (39, 20046), (41, 20052), (44, 20064),

Gene: Cheeto1_27 Start: 19860, Stop: 20216, Start Num: 12
Candidate Starts for Cheeto1_27:
(Start: 12 @19860 has 137 MA's), (13, 19869), (Start: 16 @19908 has 1 MA's), (23, 19974), (25, 19986), (28, 20013), (32, 20031), (39, 20133), (41, 20139),

Gene: ChickenKing_26 Start: 19758, Stop: 20114, Start Num: 12
Candidate Starts for ChickenKing_26:
(Start: 12 @19758 has 137 MA's), (13, 19767), (Start: 16 @19806 has 1 MA's), (23, 19872), (28, 19911), (32, 19929), (39, 20031), (41, 20037),

Gene: ChikPic_25 Start: 19670, Stop: 19942, Start Num: 10
Candidate Starts for ChikPic_25:
(Start: 10 @19670 has 33 MA's), (Start: 16 @19718 has 1 MA's), (19, 19766), (20, 19772), (21, 19775), (23, 19784), (30, 19823),

Gene: Christoph_26 Start: 19789, Stop: 20130, Start Num: 12
Candidate Starts for Christoph_26:
(2, 19672), (Start: 12 @19789 has 137 MA's), (21, 19894), (23, 19903), (39, 20062), (41, 20068), (44, 20080),

Gene: Cidela_25 Start: 20497, Stop: 20781, Start Num: 13
Candidate Starts for Cidela_25:
(Start: 12 @20488 has 137 MA's), (13, 20497), (14, 20515), (Start: 16 @20536 has 1 MA's), (19, 20584), (21, 20593), (23, 20602), (30, 20641), (38, 20722), (42, 20752),

Gene: Clancy_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Clancy_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: ColaCorta_25 Start: 19654, Stop: 19926, Start Num: 10
Candidate Starts for ColaCorta_25:
(Start: 10 @19654 has 33 MA's), (Start: 16 @19702 has 1 MA's), (19, 19750), (20, 19756), (21, 19759), (23, 19768), (30, 19807),

Gene: Convict_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Convict_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: CoraRita_26 Start: 19787, Stop: 20128, Start Num: 12
Candidate Starts for CoraRita_26:
(2, 19670), (Start: 12 @19787 has 137 MA's), (21, 19892), (23, 19901), (39, 20060), (41, 20066), (44, 20078),

Gene: Dave_26 Start: 19482, Stop: 19823, Start Num: 12
Candidate Starts for Dave_26:
(2, 19365), (Start: 12 @19482 has 137 MA's), (21, 19587), (23, 19596), (39, 19752), (41, 19758), (44, 19770),

Gene: Delphidian_26 Start: 19493, Stop: 19834, Start Num: 12
Candidate Starts for Delphidian_26:
(2, 19376), (Start: 12 @19493 has 137 MA's), (21, 19598), (23, 19607), (39, 19763), (41, 19769), (44, 19781),

Gene: Den3_26 Start: 19498, Stop: 19839, Start Num: 12
Candidate Starts for Den3_26:
(2, 19381), (Start: 12 @19498 has 137 MA's), (21, 19603), (23, 19612), (39, 19768), (41, 19774), (44, 19786),

Gene: Dothraki_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Dothraki_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Duocatuli_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Duocatuli_26:

(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: E1_25 Start: 19984, Stop: 20259, Start Num: 10
Candidate Starts for E1_25:
(1, 19834), (5, 19918), (Start: 10 @19984 has 33 MA's), (14, 20014), (18, 20059), (36, 20173),

Gene: Eleri_25 Start: 19667, Stop: 19939, Start Num: 10
Candidate Starts for Eleri_25:
(Start: 10 @19667 has 33 MA's), (Start: 16 @19715 has 1 MA's), (19, 19763), (20, 19769), (21, 19772), (23, 19781), (30, 19820),

Gene: Endor_27 Start: 19943, Stop: 20284, Start Num: 10
Candidate Starts for Endor_27:
(Start: 10 @19943 has 33 MA's), (22, 20051), (23, 20057), (41, 20219),

Gene: Erla_26 Start: 19771, Stop: 20112, Start Num: 12
Candidate Starts for Erla_26:
(2, 19654), (3, 19672), (Start: 12 @19771 has 137 MA's), (21, 19876), (23, 19885), (39, 20044), (41, 20050), (44, 20062),

Gene: Espinosa_26 Start: 19789, Stop: 20130, Start Num: 12
Candidate Starts for Espinosa_26:
(2, 19672), (Start: 12 @19789 has 137 MA's), (21, 19894), (23, 19903), (39, 20062), (41, 20068), (44, 20080),

Gene: Etna_26 Start: 19804, Stop: 20145, Start Num: 12
Candidate Starts for Etna_26:
(2, 19693), (6, 19768), (7, 19771), (Start: 12 @19804 has 137 MA's), (23, 19918), (39, 20074), (41, 20080), (44, 20092),

Gene: Etta_26 Start: 19775, Stop: 20116, Start Num: 12
Candidate Starts for Etta_26:
(2, 19658), (3, 19676), (Start: 12 @19775 has 137 MA's), (21, 19880), (23, 19889), (39, 20048), (41, 20054), (44, 20066),

Gene: Exploradora_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Exploradora_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: Fabyndrax_25 Start: 20497, Stop: 20781, Start Num: 13
Candidate Starts for Fabyndrax_25:
(Start: 12 @20488 has 137 MA's), (13, 20497), (14, 20515), (Start: 16 @20536 has 1 MA's), (19, 20584), (21, 20593), (23, 20602), (30, 20641), (38, 20722), (42, 20752),

Gene: FarmerDoug_26 Start: 19526, Stop: 19864, Start Num: 12
Candidate Starts for FarmerDoug_26:
(Start: 12 @19526 has 137 MA's), (23, 19640), (27, 19661), (39, 19796), (41, 19802),

Gene: Figueroism_26 Start: 19478, Stop: 19822, Start Num: 12
Candidate Starts for Figueroism_26:

(2, 19361), (Start: 12 @19478 has 137 MA's), (21, 19583), (23, 19592), (39, 19751), (41, 19757), (44, 19769),

Gene: Finny_25 Start: 19701, Stop: 19925, Start Num: 16
Candidate Starts for Finny_25:
(Start: 10 @19653 has 33 MA's), (Start: 16 @19701 has 1 MA's), (19, 19749), (20, 19755), (21, 19758), (23, 19767), (30, 19806),

Gene: GaeCeo_27 Start: 19931, Stop: 20287, Start Num: 12
Candidate Starts for GaeCeo_27:
(Start: 12 @19931 has 137 MA's), (13, 19940), (Start: 16 @19979 has 1 MA's), (23, 20045), (28, 20084), (39, 20204), (41, 20210),

Gene: GardenB_26 Start: 19810, Stop: 20151, Start Num: 12
Candidate Starts for GardenB_26:
(Start: 12 @19810 has 137 MA's), (23, 19924), (39, 20080), (41, 20086),

Gene: Garey24_26 Start: 19754, Stop: 20095, Start Num: 12
Candidate Starts for Garey24_26:
(2, 19637), (3, 19655), (Start: 12 @19754 has 137 MA's), (21, 19859), (23, 19868), (39, 20027), (41, 20033), (44, 20045),

Gene: Gargoyle_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Gargoyle_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Gelo_26 Start: 19775, Stop: 20116, Start Num: 12
Candidate Starts for Gelo_26:
(2, 19658), (3, 19676), (Start: 12 @19775 has 137 MA's), (21, 19880), (23, 19889), (39, 20048), (41, 20054), (44, 20066),

Gene: Gershwin_26 Start: 19791, Stop: 20132, Start Num: 12
Candidate Starts for Gershwin_26:
(2, 19674), (Start: 12 @19791 has 137 MA's), (21, 19896), (23, 19905), (39, 20064), (41, 20070), (44, 20082),

Gene: Glamour_24 Start: 19655, Stop: 19927, Start Num: 10
Candidate Starts for Glamour_24:
(Start: 10 @19655 has 33 MA's), (Start: 16 @19703 has 1 MA's), (19, 19751), (20, 19757), (21, 19760), (23, 19769), (30, 19808),

Gene: GoingMerry_26 Start: 19504, Stop: 19845, Start Num: 12
Candidate Starts for GoingMerry_26:
(2, 19387), (Start: 12 @19504 has 137 MA's), (21, 19609), (23, 19618), (39, 19774), (41, 19780), (44, 19792),

Gene: Golden_26 Start: 20129, Stop: 20422, Start Num: 12
Candidate Starts for Golden_26:
(Start: 12 @20129 has 137 MA's), (15, 20165), (21, 20234), (23, 20243), (30, 20282), (41, 20387), (42, 20393),

Gene: GoneGirl_27 Start: 19916, Stop: 20257, Start Num: 12

Candidate Starts for GoneGirl_27:
(Start: 12 @19916 has 137 MA's), (23, 20030), (39, 20186), (41, 20192),

Gene: Greys_26 Start: 19491, Stop: 19832, Start Num: 12
Candidate Starts for Greys_26:
(2, 19374), (Start: 12 @19491 has 137 MA's), (21, 19596), (23, 19605), (39, 19761), (41, 19767), (44, 19779),

Gene: Gubbabump_26 Start: 19780, Stop: 20121, Start Num: 12
Candidate Starts for Gubbabump_26:
(2, 19663), (Start: 12 @19780 has 137 MA's), (21, 19885), (23, 19894), (39, 20053), (41, 20059), (44, 20071),

Gene: Guetzie_26 Start: 20117, Stop: 20410, Start Num: 12
Candidate Starts for Guetzie_26:
(Start: 12 @20117 has 137 MA's), (15, 20153), (21, 20222), (23, 20231), (30, 20270), (41, 20375), (42, 20381),

Gene: HairyMan_24 Start: 19562, Stop: 19873, Start Num: 12
Candidate Starts for HairyMan_24:
(Start: 12 @19562 has 137 MA's), (21, 19667), (23, 19676), (41, 19820),

Gene: Hamlet_26 Start: 19811, Stop: 20152, Start Num: 10
Candidate Starts for Hamlet_26:
(2, 19700), (6, 19775), (7, 19778), (Start: 10 @19811 has 33 MA's), (23, 19925), (39, 20081), (41, 20087), (44, 20099),

Gene: HanSolo_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for HanSolo_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: HankSprout_27 Start: 19658, Stop: 19999, Start Num: 12
Candidate Starts for HankSprout_27:
(2, 19541), (Start: 12 @19658 has 137 MA's), (21, 19763), (23, 19772), (39, 19931), (41, 19937), (44, 19949),

Gene: HavenFinLeoSun_27 Start: 19757, Stop: 20095, Start Num: 10
Candidate Starts for HavenFinLeoSun_27:
(Start: 10 @19757 has 33 MA's), (23, 19871), (33, 19946), (39, 20027), (45, 20048), (47, 20063),

Gene: HungryHenry_26 Start: 19788, Stop: 20129, Start Num: 12
Candidate Starts for HungryHenry_26:
(2, 19671), (Start: 12 @19788 has 137 MA's), (21, 19893), (23, 19902), (39, 20061), (41, 20067), (44, 20079),

Gene: Ilzat_26 Start: 19787, Stop: 20128, Start Num: 12
Candidate Starts for Ilzat_26:
(2, 19670), (Start: 12 @19787 has 137 MA's), (21, 19892), (23, 19901), (39, 20060), (41, 20066), (44, 20078),

Gene: Inventa_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Inventa_26:

(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Ioannes_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Ioannes_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Janus167_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Janus167_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: JasonD_28 Start: 19945, Stop: 20283, Start Num: 10
Candidate Starts for JasonD_28:
(Start: 10 @19945 has 33 MA's), (23, 20059), (39, 20215), (41, 20221), (47, 20251),

Gene: JasperRussell_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for JasperRussell_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: Jenos_28 Start: 20268, Stop: 20606, Start Num: 10
Candidate Starts for Jenos_28:
(Start: 10 @20268 has 33 MA's), (23, 20382), (41, 20544),

Gene: Jerbirus_27 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Jerbirus_27:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: JeriBeth_26 Start: 19634, Stop: 19975, Start Num: 12
Candidate Starts for JeriBeth_26:
(2, 19517), (Start: 12 @19634 has 137 MA's), (21, 19739), (23, 19748), (39, 19907), (41, 19913), (44, 19925),

Gene: Jingles_26 Start: 20034, Stop: 20327, Start Num: 12
Candidate Starts for Jingles_26:
(Start: 12 @20034 has 137 MA's), (21, 20139), (23, 20148), (30, 20187), (41, 20292), (42, 20298),

Gene: Juanyo_25 Start: 19830, Stop: 20120, Start Num: 12
Candidate Starts for Juanyo_25:
(Start: 12 @19830 has 137 MA's), (20, 19932), (21, 19935), (23, 19944), (25, 19956), (30, 19983), (42, 20091),

Gene: Kale_26 Start: 19793, Stop: 20134, Start Num: 12
Candidate Starts for Kale_26:
(2, 19676), (Start: 12 @19793 has 137 MA's), (21, 19898), (23, 19907), (39, 20066), (41, 20072), (44, 20084),

Gene: KannH_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for KannH_26:

(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: Kauala_26 Start: 20031, Stop: 20324, Start Num: 12
Candidate Starts for Kauala_26:
(Start: 12 @20031 has 137 MA's), (21, 20136), (23, 20145), (30, 20184), (41, 20289), (42, 20295),

Gene: KellyGreen_27 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for KellyGreen_27:
(2, 19661), (3, 19679), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: KingJulien_26 Start: 19804, Stop: 20145, Start Num: 10
Candidate Starts for KingJulien_26:
(2, 19693), (6, 19768), (Start: 10 @19804 has 33 MA's), (23, 19918), (39, 20074), (41, 20080), (44, 20092),

Gene: Klimt_26 Start: 19773, Stop: 20114, Start Num: 12
Candidate Starts for Klimt_26:
(2, 19656), (3, 19674), (Start: 12 @19773 has 137 MA's), (21, 19878), (23, 19887), (39, 20046), (41, 20052), (44, 20064),

Gene: Knox_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Knox_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Koji_26 Start: 20156, Stop: 20449, Start Num: 12
Candidate Starts for Koji_26:
(Start: 12 @20156 has 137 MA's), (21, 20261), (23, 20270), (30, 20309), (41, 20414), (42, 20420),

Gene: Kouch_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Kouch_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: Kurt1_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Kurt1_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Leafus_26 Start: 19949, Stop: 20290, Start Num: 10
Candidate Starts for Leafus_26:
(2, 19838), (6, 19913), (Start: 10 @19949 has 33 MA's), (23, 20063), (39, 20219), (41, 20225), (44, 20237),

Gene: Lovelyunicorn_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Lovelyunicorn_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Lucky3_26 Start: 20129, Stop: 20422, Start Num: 12
Candidate Starts for Lucky3_26:

(Start: 12 @20129 has 137 MA's), (15, 20165), (21, 20234), (23, 20243), (30, 20282), (41, 20387), (42, 20393),

Gene: Ludgate_26 Start: 19490, Stop: 19831, Start Num: 12
Candidate Starts for Ludgate_26:
(2, 19373), (Start: 12 @19490 has 137 MA's), (21, 19595), (23, 19604), (39, 19760), (41, 19766), (44, 19778),

Gene: MCubed_25 Start: 19681, Stop: 19953, Start Num: 10
Candidate Starts for MCubed_25:
(Start: 10 @19681 has 33 MA's), (Start: 16 @19729 has 1 MA's), (19, 19777), (20, 19783), (21, 19786), (23, 19795), (30, 19834),

Gene: MaeLinda_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for MaeLinda_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: ManRay_26 Start: 19791, Stop: 20132, Start Num: 12
Candidate Starts for ManRay_26:
(2, 19674), (Start: 12 @19791 has 137 MA's), (21, 19896), (23, 19905), (39, 20064), (41, 20070), (44, 20082),

Gene: Mandalorian_25 Start: 19944, Stop: 20252, Start Num: 9
Candidate Starts for Mandalorian_25:
(Start: 9 @19944 has 4 MA's), (14, 19971), (Start: 16 @19992 has 1 MA's), (21, 20049), (23, 20058), (24, 20064), (30, 20097), (39, 20193), (41, 20199),

Gene: Martin_27 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Martin_27:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: McGalleon_27 Start: 20387, Stop: 20725, Start Num: 10
Candidate Starts for McGalleon_27:
(Start: 10 @20387 has 33 MA's), (23, 20501), (39, 20657), (41, 20663), (47, 20693),

Gene: Merida02_27 Start: 19493, Stop: 19834, Start Num: 12
Candidate Starts for Merida02_27:
(2, 19376), (Start: 12 @19493 has 137 MA's), (21, 19598), (23, 19607), (39, 19763), (41, 19769), (44, 19781),

Gene: MillyPhilly_26 Start: 19493, Stop: 19834, Start Num: 12
Candidate Starts for MillyPhilly_26:
(2, 19376), (Start: 12 @19493 has 137 MA's), (21, 19598), (23, 19607), (39, 19763), (41, 19769), (44, 19781),

Gene: MiniVolent_25 Start: 19817, Stop: 20107, Start Num: 12
Candidate Starts for MiniVolent_25:
(Start: 12 @19817 has 137 MA's), (20, 19919), (21, 19922), (23, 19931), (25, 19943), (30, 19970), (42, 20078),

Gene: MonChoix_25 Start: 19466, Stop: 19801, Start Num: 11

Candidate Starts for MonChoix_25:
(Start: 11 @19466 has 1 MA's), (13, 19475), (23, 19580), (33, 19655), (34, 19661), (35, 19664), (41, 19739),

Gene: MrWorldwide_26 Start: 19497, Stop: 19838, Start Num: 12
Candidate Starts for MrWorldwide_26:
(2, 19380), (Start: 12 @19497 has 137 MA's), (21, 19602), (23, 19611), (39, 19767), (41, 19773), (44, 19785),

Gene: Nagem_26 Start: 19490, Stop: 19831, Start Num: 12
Candidate Starts for Nagem_26:
(2, 19373), (Start: 12 @19490 has 137 MA's), (21, 19595), (23, 19604), (39, 19760), (41, 19766), (44, 19778),

Gene: Nattles_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Nattles_26:
(2, 19661), (3, 19679), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: NickSell_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for NickSell_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Nucci_25 Start: 19933, Stop: 20241, Start Num: 9
Candidate Starts for Nucci_25:
(Start: 9 @19933 has 4 MA's), (14, 19960), (Start: 16 @19981 has 1 MA's), (21, 20038), (23, 20047), (24, 20053), (30, 20086), (39, 20182), (41, 20188),

Gene: Oats_26 Start: 19791, Stop: 20132, Start Num: 12
Candidate Starts for Oats_26:
(2, 19674), (Start: 12 @19791 has 137 MA's), (21, 19896), (23, 19905), (39, 20064), (41, 20070), (44, 20082),

Gene: OldNelly_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for OldNelly_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Orpington_25 Start: 19667, Stop: 19939, Start Num: 10
Candidate Starts for Orpington_25:
(Start: 10 @19667 has 33 MA's), (Start: 16 @19715 has 1 MA's), (19, 19763), (20, 19769), (21, 19772), (23, 19781), (30, 19820),

Gene: Oxtober96_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Oxtober96_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: PSirce_25 Start: 19670, Stop: 19942, Start Num: 10
Candidate Starts for PSirce_25:
(Start: 10 @19670 has 33 MA's), (Start: 16 @19718 has 1 MA's), (19, 19766), (20, 19772), (21, 19775), (23, 19784), (30, 19823),

Gene: Pajaza_25 Start: 19954, Stop: 20253, Start Num: 12
Candidate Starts for Pajaza_25:
(Start: 12 @19954 has 137 MA's), (Start: 16 @20002 has 1 MA's), (21, 20059), (23, 20068), (24, 20074), (31, 20110), (42, 20218), (43, 20221),

Gene: Papafritta_26 Start: 19787, Stop: 20128, Start Num: 12
Candidate Starts for Papafritta_26:
(2, 19670), (Start: 12 @19787 has 137 MA's), (21, 19892), (23, 19901), (39, 20060), (41, 20066), (44, 20078),

Gene: ParleG_26 Start: 19497, Stop: 19838, Start Num: 12
Candidate Starts for ParleG_26:
(2, 19380), (Start: 12 @19497 has 137 MA's), (21, 19602), (23, 19611), (39, 19767), (41, 19773), (44, 19785),

Gene: Peep_26 Start: 19482, Stop: 19823, Start Num: 12
Candidate Starts for Peep_26:
(2, 19365), (Start: 12 @19482 has 137 MA's), (21, 19587), (23, 19596), (39, 19752), (41, 19758), (44, 19770),

Gene: Peppino_26 Start: 19802, Stop: 20143, Start Num: 10
Candidate Starts for Peppino_26:
(2, 19691), (6, 19766), (7, 19769), (Start: 10 @19802 has 33 MA's), (23, 19916), (29, 19955), (39, 20072), (41, 20078), (44, 20090),

Gene: Phanita_25 Start: 19654, Stop: 19926, Start Num: 10
Candidate Starts for Phanita_25:
(Start: 10 @19654 has 33 MA's), (Start: 16 @19702 has 1 MA's), (19, 19750), (20, 19756), (21, 19759), (23, 19768), (30, 19807),

Gene: Pherbot_26 Start: 20026, Stop: 20319, Start Num: 12
Candidate Starts for Pherbot_26:
(Start: 12 @20026 has 137 MA's), (21, 20131), (23, 20140), (30, 20179), (41, 20284), (42, 20290),

Gene: Pherferi_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Pherferi_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Phiderman_26 Start: 19493, Stop: 19834, Start Num: 12
Candidate Starts for Phiderman_26:
(2, 19376), (Start: 12 @19493 has 137 MA's), (21, 19598), (23, 19607), (39, 19763), (41, 19769), (44, 19781),

Gene: PhillyPhantom_26 Start: 19811, Stop: 20152, Start Num: 10
Candidate Starts for PhillyPhantom_26:
(2, 19700), (6, 19775), (Start: 10 @19811 has 33 MA's), (23, 19925), (39, 20081), (41, 20087), (44, 20099),

Gene: Phireproof_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Phireproof_26:

(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: PhredFlintston_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for PhredFlintston_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Phriends_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Phriends_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Pikmin_25 Start: 19954, Stop: 20253, Start Num: 12
Candidate Starts for Pikmin_25:
(Start: 12 @19954 has 137 MA's), (Start: 16 @20002 has 1 MA's), (21, 20059), (23, 20068), (24, 20074), (31, 20110), (42, 20218), (43, 20221),

Gene: Pocket_26 Start: 19776, Stop: 20117, Start Num: 12
Candidate Starts for Pocket_26:
(2, 19659), (Start: 12 @19776 has 137 MA's), (21, 19881), (23, 19890), (39, 20049), (41, 20055), (44, 20067),

Gene: PrincePhergus_26 Start: 20029, Stop: 20322, Start Num: 12
Candidate Starts for PrincePhergus_26:
(Start: 12 @20029 has 137 MA's), (21, 20134), (23, 20143), (30, 20182), (41, 20287), (42, 20293),

Gene: PuppyEggo_26 Start: 19491, Stop: 19835, Start Num: 12
Candidate Starts for PuppyEggo_26:
(2, 19374), (Start: 12 @19491 has 137 MA's), (21, 19596), (23, 19605), (39, 19764), (41, 19770), (44, 19782), (46, 19797),

Gene: Quartz_25 Start: 19945, Stop: 20253, Start Num: 9
Candidate Starts for Quartz_25:
(Start: 9 @19945 has 4 MA's), (14, 19972), (Start: 16 @19993 has 1 MA's), (17, 20011), (21, 20050), (23, 20059), (30, 20098), (39, 20194), (41, 20200),

Gene: Raccoon_26 Start: 19810, Stop: 20151, Start Num: 10
Candidate Starts for Raccoon_26:
(2, 19699), (6, 19774), (7, 19777), (Start: 10 @19810 has 33 MA's), (23, 19924), (29, 19963), (39, 20080), (41, 20086), (44, 20098),

Gene: Rapheph_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Rapheph_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Raptor_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Raptor_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Redfield_26 Start: 19810, Stop: 20151, Start Num: 10

Candidate Starts for Redfield_26:
(2, 19699), (6, 19774), (7, 19777), (Start: 10 @19810 has 33 MA's), (23, 19924), (39, 20080), (41, 20086), (44, 20098),

Gene: RenegadeRaider_27 Start: 20025, Stop: 20318, Start Num: 12
Candidate Starts for RenegadeRaider_27:
(Start: 12 @20025 has 137 MA's), (21, 20130), (23, 20139), (30, 20178), (41, 20283), (42, 20289),

Gene: Renzie_26 Start: 19482, Stop: 19823, Start Num: 12
Candidate Starts for Renzie_26:
(2, 19365), (Start: 12 @19482 has 137 MA's), (21, 19587), (23, 19596), (39, 19752), (41, 19758), (44, 19770),

Gene: Riyhil_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Riyhil_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Robinson_26 Start: 19485, Stop: 19829, Start Num: 12
Candidate Starts for Robinson_26:
(2, 19368), (Start: 12 @19485 has 137 MA's), (21, 19590), (23, 19599), (39, 19758), (41, 19764), (44, 19776),

Gene: Rog141_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Rog141_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: RosieMae_26 Start: 19787, Stop: 20128, Start Num: 12
Candidate Starts for RosieMae_26:
(2, 19670), (Start: 12 @19787 has 137 MA's), (21, 19892), (23, 19901), (39, 20060), (41, 20066), (44, 20078),

Gene: SJay_26 Start: 19491, Stop: 19832, Start Num: 12
Candidate Starts for SJay_26:
(2, 19374), (Start: 12 @19491 has 137 MA's), (21, 19596), (23, 19605), (39, 19761), (41, 19767), (44, 19779),

Gene: Sansa_24 Start: 19677, Stop: 19949, Start Num: 10
Candidate Starts for Sansa_24:
(Start: 10 @19677 has 33 MA's), (Start: 16 @19725 has 1 MA's), (19, 19773), (20, 19779), (21, 19782), (23, 19791), (25, 19803),

Gene: Saratos_25 Start: 19655, Stop: 19927, Start Num: 10
Candidate Starts for Saratos_25:
(Start: 10 @19655 has 33 MA's), (Start: 16 @19703 has 1 MA's), (19, 19751), (20, 19757), (21, 19760), (23, 19769), (30, 19808),

Gene: Schnapsidee_26 Start: 19803, Stop: 20144, Start Num: 10
Candidate Starts for Schnapsidee_26:
(2, 19692), (6, 19767), (7, 19770), (Start: 10 @19803 has 33 MA's), (23, 19917), (29, 19956), (39, 20073), (41, 20079), (44, 20091),

Gene: Schubert_26 Start: 20139, Stop: 20444, Start Num: 12
Candidate Starts for Schubert_26:
(5, 20070), (Start: 12 @20139 has 137 MA's), (13, 20148), (Start: 16 @20187 has 1 MA's), (17, 20205), (21, 20244), (23, 20253), (24, 20259), (37, 20379), (40, 20406),

Gene: Sedgewig_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for Sedgewig_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: ShaiHulud_26 Start: 19491, Stop: 19835, Start Num: 12
Candidate Starts for ShaiHulud_26:
(2, 19374), (Start: 12 @19491 has 137 MA's), (21, 19596), (23, 19605), (39, 19764), (41, 19770), (44, 19782), (46, 19797),

Gene: Shamu_25 Start: 19667, Stop: 19939, Start Num: 10
Candidate Starts for Shamu_25:
(Start: 10 @19667 has 33 MA's), (Start: 16 @19715 has 1 MA's), (19, 19763), (20, 19769), (21, 19772), (23, 19781), (30, 19820),

Gene: Shee_26 Start: 19493, Stop: 19834, Start Num: 12
Candidate Starts for Shee_26:
(2, 19376), (Start: 12 @19493 has 137 MA's), (21, 19598), (23, 19607), (39, 19763), (41, 19769), (44, 19781),

Gene: Sinatra_26 Start: 20026, Stop: 20319, Start Num: 12
Candidate Starts for Sinatra_26:
(Start: 12 @20026 has 137 MA's), (21, 20131), (23, 20140), (30, 20179), (41, 20284), (42, 20290),

Gene: SirVictor_26 Start: 20117, Stop: 20410, Start Num: 12
Candidate Starts for SirVictor_26:
(Start: 12 @20117 has 137 MA's), (15, 20153), (21, 20222), (23, 20231), (30, 20270), (41, 20375), (42, 20381),

Gene: SoilGremlin_26 Start: 19493, Stop: 19834, Start Num: 12
Candidate Starts for SoilGremlin_26:
(2, 19376), (Start: 12 @19493 has 137 MA's), (21, 19598), (23, 19607), (39, 19763), (41, 19769), (44, 19781),

Gene: SolidSnake_27 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for SolidSnake_27:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: SonOfLevi_26 Start: 19773, Stop: 20114, Start Num: 12
Candidate Starts for SonOfLevi_26:
(2, 19656), (3, 19674), (Start: 12 @19773 has 137 MA's), (21, 19878), (23, 19887), (39, 20046), (41, 20052), (44, 20064),

Gene: Soror1_26 Start: 19813, Stop: 20154, Start Num: 10
Candidate Starts for Soror1_26:
(2, 19702), (6, 19777), (Start: 10 @19813 has 33 MA's), (23, 19927), (39, 20083), (41, 20089), (44, 20101),

Gene: Stanktossa_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for Stanktossa_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: StingRay_26 Start: 19787, Stop: 20128, Start Num: 12
Candidate Starts for StingRay_26:
(2, 19670), (Start: 12 @19787 has 137 MA's), (21, 19892), (23, 19901), (39, 20060), (41, 20066), (44, 20078),

Gene: StirfryIV_26 Start: 19778, Stop: 20119, Start Num: 12
Candidate Starts for StirfryIV_26:
(2, 19661), (Start: 12 @19778 has 137 MA's), (21, 19883), (23, 19892), (39, 20051), (41, 20057), (44, 20069),

Gene: Stormbreaker8_26 Start: 19804, Stop: 20145, Start Num: 10
Candidate Starts for Stormbreaker8_26:
(2, 19693), (6, 19768), (Start: 10 @19804 has 33 MA's), (23, 19918), (39, 20074), (41, 20080), (44, 20092),

Gene: Strathdee_26 Start: 19495, Stop: 19836, Start Num: 12
Candidate Starts for Strathdee_26:
(2, 19378), (Start: 12 @19495 has 137 MA's), (21, 19600), (23, 19609), (39, 19765), (41, 19771), (44, 19783),

Gene: Superfresh_26 Start: 19482, Stop: 19823, Start Num: 12
Candidate Starts for Superfresh_26:
(2, 19365), (Start: 12 @19482 has 137 MA's), (21, 19587), (23, 19596), (39, 19752), (41, 19758), (44, 19770),

Gene: Symere_26 Start: 19775, Stop: 20116, Start Num: 12
Candidate Starts for Symere_26:
(2, 19658), (Start: 12 @19775 has 137 MA's), (21, 19880), (23, 19889), (39, 20048), (41, 20054), (44, 20066),

Gene: TatarkaPM_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for TatarkaPM_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Teagan_26 Start: 19490, Stop: 19831, Start Num: 12
Candidate Starts for Teagan_26:
(2, 19373), (Start: 12 @19490 has 137 MA's), (21, 19595), (23, 19604), (39, 19760), (41, 19766), (44, 19778),

Gene: TeddyBear_26 Start: 19791, Stop: 20132, Start Num: 12
Candidate Starts for TeddyBear_26:
(2, 19674), (Start: 12 @19791 has 137 MA's), (21, 19896), (23, 19905), (39, 20064), (41, 20070), (44, 20082),

Gene: Tenda_26 Start: 19789, Stop: 20130, Start Num: 12
Candidate Starts for Tenda_26:

(2, 19672), (Start: 12 @19789 has 137 MA's), (21, 19894), (23, 19903), (39, 20062), (41, 20068), (44, 20080),

Gene: Theresita_26 Start: 19659, Stop: 19967, Start Num: 12
Candidate Starts for Theresita_26:
(Start: 12 @19659 has 137 MA's), (Start: 16 @19707 has 1 MA's), (21, 19764), (23, 19773), (34, 19845), (40, 19914),

Gene: Thompsone_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Thompsone_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Thorongil_26 Start: 19491, Stop: 19835, Start Num: 12
Candidate Starts for Thorongil_26:
(2, 19374), (Start: 12 @19491 has 137 MA's), (21, 19596), (23, 19605), (39, 19764), (41, 19770), (44, 19782),

Gene: TinSulphur_26 Start: 19496, Stop: 19837, Start Num: 12
Candidate Starts for TinSulphur_26:
(2, 19379), (Start: 12 @19496 has 137 MA's), (21, 19601), (23, 19610), (39, 19766), (41, 19772), (44, 19784),

Gene: Velene_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for Velene_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Vispistious_26 Start: 19491, Stop: 19835, Start Num: 12
Candidate Starts for Vispistious_26:
(2, 19374), (Start: 12 @19491 has 137 MA's), (21, 19596), (23, 19605), (39, 19764), (41, 19770), (44, 19782), (46, 19797),

Gene: WildNOut_26 Start: 19494, Stop: 19835, Start Num: 12
Candidate Starts for WildNOut_26:
(2, 19377), (Start: 12 @19494 has 137 MA's), (21, 19599), (23, 19608), (39, 19764), (41, 19770), (44, 19782),

Gene: Winzigespinne_26 Start: 19777, Stop: 20118, Start Num: 12
Candidate Starts for Winzigespinne_26:
(2, 19660), (Start: 12 @19777 has 137 MA's), (21, 19882), (23, 19891), (39, 20050), (41, 20056), (44, 20068),

Gene: Xebius_25 Start: 19655, Stop: 19927, Start Num: 10
Candidate Starts for Xebius_25:
(Start: 10 @19655 has 33 MA's), (Start: 16 @19703 has 1 MA's), (19, 19751), (20, 19757), (21, 19760), (23, 19769), (30, 19808),

Gene: YuuY_25 Start: 19942, Stop: 20235, Start Num: 12
Candidate Starts for YuuY_25:
(Start: 12 @19942 has 137 MA's), (21, 20047), (23, 20056), (25, 20068), (30, 20095), (42, 20206),

Gene: Zada_26 Start: 19475, Stop: 19816, Start Num: 12

Candidate Starts for Zada_26:
(Start: 12 @19475 has 137 MA's), (21, 19580), (23, 19589), (39, 19745), (41, 19751), (44, 19763),

Gene: Zenitsu_25 Start: 19682, Stop: 19954, Start Num: 10
Candidate Starts for Zenitsu_25:
(Start: 10 @19682 has 33 MA's), (Start: 16 @19730 has 1 MA's), (19, 19778), (20, 19784), (21, 19787), (23, 19796), (30, 19835),