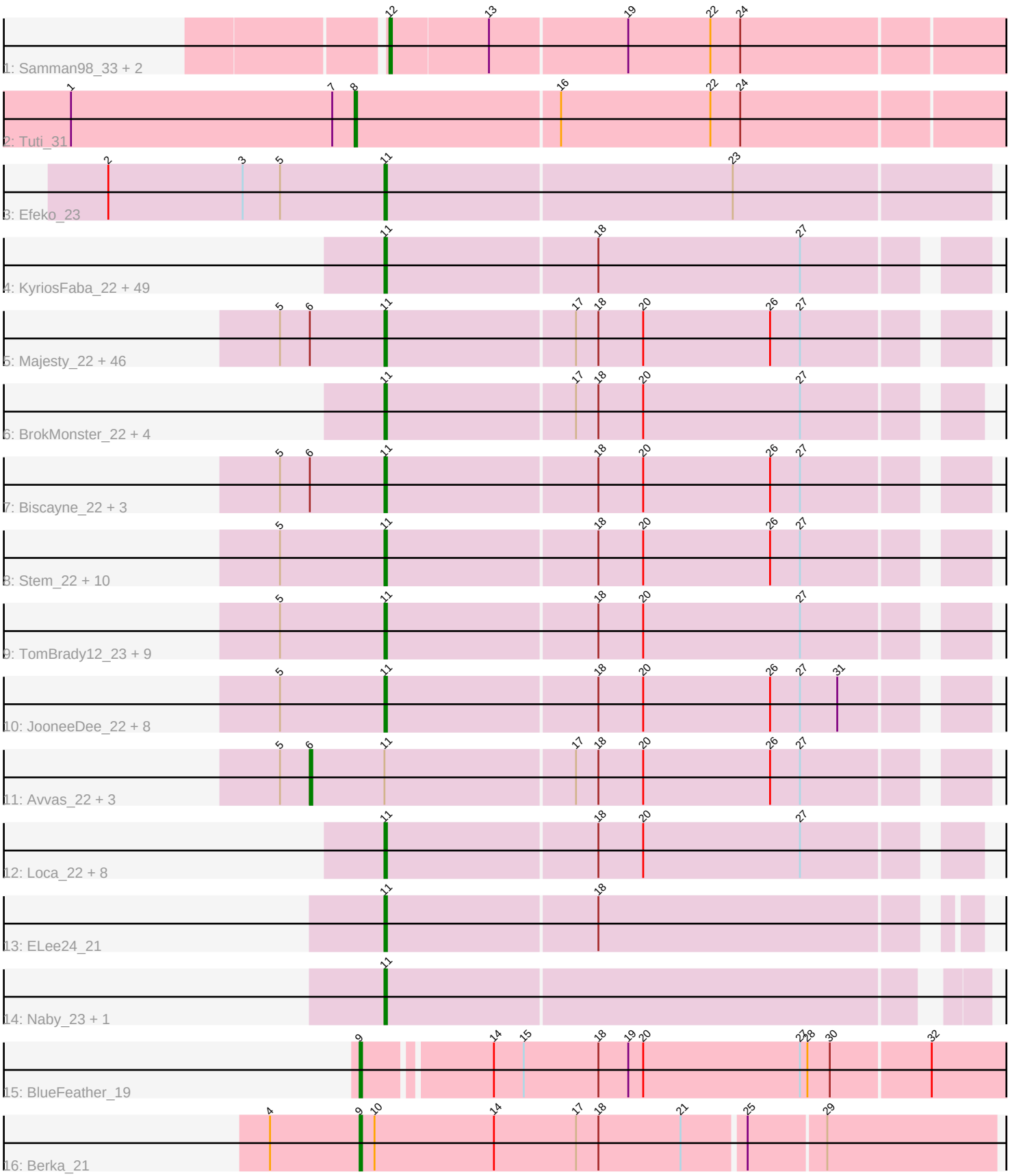
Pham 345453


1: Samman98_33 + 2
2: Tuti_31
3: Efeko_23
4: KyriosFaba_22 + 49
5: Majesty_22 + 46
6: BrokMonster_22 + 4
7: Biscayne_22 + 3
8: Stem_22 + 10
9: TomBrady12_23 + 9
10: JooneeDee_22 + 8
11: Avvas_22 + 3
12: Loca_22 + 8
13: ELee24_21
14: Naby_23 + 1
15: BlueFeather_19
16: Berka_21

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 345453 Report

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

Pham number 345453 has 159 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Samman98_33, Dolores_34, WinkNick_35
• Track 2 : Tuti_31
• Track 3 : Efeko_23
• Track 4 : KyriosFaba_22, PaoPu_22, Picnic_22, Bradley2_22, Anseraureola_22, KayPaulus_22, Lola20_22, Jahseh_22, Concrete_22, KillerTomato_22, GoldenBlanche_22, Aztec_22, Jannah_22, Pondwater_22, Gillker_22, Erin_22, Sachet_22, Witch_22, Danimal_22, Goulash_22, Yubaba_22, Duggle_23, Wolfpack_22, Minima_22, Yasuo_22, EdElric_22, Chatham_22, Bodhi17_22, BoomRoasted_22, Dongwon_22, Myram_22, Horacetta_22, SeaWolves_22, Gardevoir_22, Dooby_22, Bri160_22, YertPhresh_22, Alucard_22, JoBros_22, Sippinontea_22, ManAs_22, MrGreen_22, Puddles3_22, Sara_22, Cayde6_22, Baine_22, Octopus_22, Toxicola_23, LemonPepper_22, Belthelas_22
• Track 5 : Majesty_22, Ciel_22, Goobery_22, Luxx_22, Rhogar_22, JaimeB_22, Eightball_22, NeumannU_22, Scamander_22, DirtPie_22, Astro16_22, Kojax4_22, Otwor_22, OdetoJoy_22, Madebyisha_22, Vanisius_22, Jerky_22, Zahlia_22, LaviMo_22, Maneater_22, BarBear_22, Sage7_22, Cheesecake_22, Burgy_22, Rhysand_22, Slentz_22, Danno_22, RoscoWindex_22, Grayscar_22, Hernandez44_22, Charbie_22, LionelHutz_22, BurtonThePup_22, MasterPitts_22, DaftyDuck_22, Picconator_22, Owens_22, HeadMave_22, Aries55_22, Scrunchy_22, TeddyBoy_22, VitulaEligans_22, TimoTea_22, Tyrellus_22, Jella_23, Josuke_22, BinkBonk_22
• Track 6 : BrokMonster_22, JRok_22, McShie_22, Azizam_22, Oaklynn_22
• Track 7 : Biscayne_22, Kaijohn_22, Hulk_22, Gabbspett_22
• Track 8 : Stem_22, TinyTruffula_22, MauiIvory_21, Clownery_22, Elspeth_23, Bullzi2019_23, HarperAnne_23, Ekko14_23, Niffler_22, PuffyCat_22, Nobel_22
• Track 9 : TomBrady12_23, Snuffles_24, Trireme_22, Trackstar_22, Yami_22, Namsahir_24, Publix_23, Miaurora_22, Lunatic_22, Cazares_22
• Track 10 : JooneeDee_22, IzzyPants24_22, Bintii_22, MirimarMandM_22, Rira_22, Slizam_22, PoRanda_22, TlaliMex_23, Upsilon_22
• Track 11 : Avvas_22, SantasSleigh_22, Godfather_22, Marichuy_23
• Track 12 : Loca_22, Kevanna_22, Leafy_22, Noelani_22, Abelaine_23, Douggie_22, MelBee03_22, Livingwater_22, Quaker_22
• Track 13 : ELee24_21
• Track 14 : Naby_23, BonaeVitae_23
• Track 15 : BlueFeather_19
• Track 16 : Berka_21

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

The start number called the most often in the published annotations is 11, it was called in 143 of the 152 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abelaine_23, Alucard_22, Anseraureola_22, Aries55_22, Astro16_22, Azizam_22, Aztec_22, Baine_22, BarBear_22, Belthelas_22, BinkBonk_22, Bintii_22, Biscayne_22, Bodhi17_22, BonaeVitae_23, BoomRoasted_22, Bradley2_22, Bri160_22, BrokMonster_22, Bullzi2019_23, Burgy_22, BurtonThePup_22, Cayde6_22, Cazares_22, Charbie_22, Chatham_22, Cheesecake_22, Ciel_22, Clownery_22, Concrete_22, DaftyDuck_22, Danimal_22, Danno_22, DirtPie_22, Dongwon_22, Dooby_22, Douggie_22, Duggle_23, ELee24_21, EdElric_22, Efeko_23, Eightball_22, Ekko14_23, Elspeth_23, Erin_22, Gabbspett_22, Gardevoir_22, Gillker_22, GoldenBlanche_22, Goobery_22, Goulash_22, Grayscar_22, HarperAnne_23, HeadMave_22, Hernandez44_22, Horacetta_22, Hulk_22, IzzyPants24_22, JRok_22, Jahseh_22, JaimeB_22, Jannah_22, Jella_23, Jerky_22, JoBros_22, JooneeDee_22, Josuke_22, Kaijohn_22, KayPaulus_22, Kevanna_22, KillerTomato_22, Kojax4_22, KyriosFaba_22, LaviMo_22, Leafy_22, LemonPepper_22, LionelHutz_22, Livingwater_22, Loca_22, Lola20_22, Lunatic_22, Luxx_22, Madebyisha_22, Majesty_22, ManAs_22, Maneater_22, MasterPitts_22, MauiIvory_21, McShie_22, MelBee03_22, Miaurora_22, Minima_22, MirimarMandM_22, MrGreen_22, Myram_22, Naby_23, Namsahir_24, NeumannU_22, Niffler_22, Nobel_22, Noelani_22, Oaklynn_22, Octopus_22, OdetoJoy_22, Otwor_22, Owens_22, PaoPu_22, Picconator_22, Picnic_22, PoRanda_22, Pondwater_22, Publix_23, Puddles3_22, PuffyCat_22, Quaker_22, Rhogar_22, Rhysand_22, Rira_22, RoscoWindex_22, Sachet_22, Sage7_22, Sara_22, Scamander_22, Scrunchy_22, SeaWolves_22, Sippinontea_22, Slentz_22, Slizam_22, Snuffles_24, Stem_22, TeddyBoy_22, TimoTea_22, TinyTruffula_22, TlaliMex_23, TomBrady12_23, Toxicola_23, Trackstar_22, Trireme_22, Tyrellus_22, Upsilon_22, Vanisius_22, VitulaEligans_22, Witch_22, Wolfpack_22, Yami_22, Yasuo_22, YertPhresh_22, Yubaba_22, Zahlia_22,

Genes that have the "Most Annotated" start but do not call it:
• Avvas_22, Godfather_22, Marichuy_23, SantasSleigh_22,

Genes that do not have the "Most Annotated" start:
• Berka_21, BlueFeather_19, Dolores_34, Samman98_33, Tuti_31, WinkNick_35,

Summary by start number:

Start 6:
• Found in 55 of 159 (34.6%) of genes in pham
• Manual Annotations of this start: 3 of 152
• Called 7.3% of time when present
• Phage (with cluster) where this start called: Avvas_22 (EE), Godfather_22 (EE), Marichuy_23 (EE), SantasSleigh_22 (EE),

Start 8:
• Found in 1 of 159 (0.6%) of genes in pham

• Manual Annotations of this start: 1 of 152
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tuti_31 (CZ4),

Start 9:
• Found in 2 of 159 (1.3%) of genes in pham
• Manual Annotations of this start: 2 of 152
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Berka_21 (FE), BlueFeather_19 (FE),

Start 11:
• Found in 153 of 159 (96.2%) of genes in pham
• Manual Annotations of this start: 143 of 152
• Called 97.4% of time when present
• Phage (with cluster) where this start called: Abelaine_23 (EE), Alucard_22 (EE), Anseraureola_22 (EE), Aries55_22 (EE), Astro16_22 (EE), Azizam_22 (EE), Aztec_22 (EE), Baine_22 (EE), BarBear_22 (EE), Belthelas_22 (EE), BinkBonk_22 (EE), Bintii_22 (EE), Biscayne_22 (EE), Bodhi17_22 (EE), BonaeVitae_23 (EE), BoomRoasted_22 (EE), Bradley2_22 (EE), Bri160_22 (EE), BrokMonster_22 (EE), Bullzi2019_23 (EE), Burgy_22 (EE), BurtonThePup_22 (EE), Cayde6_22 (EE), Cazares_22 (EE), Charbie_22 (EE), Chatham_22 (EE), Cheesecake_22 (EE), Ciel_22 (EE), Clownery_22 (EE), Concrete_22 (EE), DaftyDuck_22 (EE), Danimal_22 (EE), Danno_22 (EE), DirtPie_22 (EE), Dongwon_22 (EE), Dooby_22 (EE), Douggie_22 (EE), Duggle_23 (EE), ELee24_21 (EE), EdElric_22 (EE), Efeko_23 (EE), Eightball_22 (EE), Ekko14_23 (EE), Elspeth_23 (EE), Erin_22 (EE), Gabbspett_22 (EE), Gardevoir_22 (EE), Gillker_22 (EE), GoldenBlanche_22 (EE), Goobery_22 (EE), Goulash_22 (EE), Grayscar_22 (EE), HarperAnne_23 (EE), HeadMave_22 (EE), Hernandez44_22 (EE), Horacetta_22 (EE), Hulk_22 (EE), IzzyPants24_22 (EE), JRok_22 (EE), Jahseh_22 (EE), JaimeB_22 (EE), Jannah_22 (EE), Jella_23 (EE), Jerky_22 (EE), JoBros_22 (EE), JooneeDee_22 (EE), Josuke_22 (EE), Kaijohn_22 (EE), KayPaulus_22 (EE), Kevanna_22 (EE), KillerTomato_22 (EE), Kojax4_22 (EE), KyriosFaba_22 (EE), LaviMo_22 (EE), Leafy_22 (EE), LemonPepper_22 (EE), LionelHutz_22 (EE), Livingwater_22 (EE), Loca_22 (EE), Lola20_22 (EE), Lunatic_22 (EE), Luxx_22 (EE), Madebyisha_22 (EE), Majesty_22 (EE), ManAs_22 (EE), Maneater_22 (EE), MasterPitts_22 (EE), MauiIvory_21 (EE), McShie_22 (EE), MelBee03_22 (EE), Miaurora_22 (EE), Minima_22 (EE), MirimarMandM_22 (EE), MrGreen_22 (EE), Myram_22 (EE), Naby_23 (EE), Namsahir_24 (EE), NeumannU_22 (EE), Niffler_22 (EE), Nobel_22 (EE), Noelani_22 (EE), Oaklynn_22 (EE), Octopus_22 (EE), OdetoJoy_22 (EE), Otwor_22 (EE), Owens_22 (EE), PaoPu_22 (EE), Picconator_22 (EE), Picnic_22 (EE), PoRanda_22 (EE), Pondwater_22 (EE), Publix_23 (EE), Puddles3_22 (EE), PuffyCat_22 (EE), Quaker_22 (EE), Rhogar_22 (EE), Rhysand_22 (EE), Rira_22 (EE), RoscoWindex_22 (EE), Sachet_22 (EE), Sage7_22 (EE), Sara_22 (EE), Scamander_22 (EE), Scrunchy_22 (EE), SeaWolves_22 (EE), Sippinontea_22 (EE), Slentz_22 (EE), Slizam_22 (EE), Snuffles_24 (EE), Stem_22 (EE), TeddyBoy_22 (EE), TimoTea_22 (EE), TinyTruffula_22 (EE), TlaliMex_23 (EE), TomBrady12_23 (EE), Toxicola_23 (EE), Trackstar_22 (EE), Trireme_22 (EE), Tyrellus_22 (EE), Upsilon_22 (EE), Vanisius_22 (EE), VitulaEligans_22 (EE), Witch_22 (EE), Wolfpack_22 (EE), Yami_22 (EE), Yasuo_22 (EE), YertPhresh_22 (EE), Yubaba_22 (EE), Zahlia_22 (EE),

Start 12:
• Found in 3 of 159 (1.9%) of genes in pham

• Manual Annotations of this start: 3 of 152
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dolores_34 (CZ4), Samman98_33 (CZ4), WinkNick_35 (CZ4),

Summary by clusters:

There are 3 clusters represented in this pham: EE, FE, CZ4,

Info for manual annotations of cluster CZ4:
•Start number 8 was manually annotated 1 time for cluster CZ4.
•Start number 12 was manually annotated 3 times for cluster CZ4.

Info for manual annotations of cluster EE:
•Start number 6 was manually annotated 3 times for cluster EE.
•Start number 11 was manually annotated 143 times for cluster EE.

Info for manual annotations of cluster FE:
•Start number 9 was manually annotated 2 times for cluster FE.

Gene Information:

Gene: Abelaine_23 Start: 15826, Stop: 15599, Start Num: 11
Candidate Starts for Abelaine_23:
(Start: 11 @15826 has 143 MA's), (18, 15742), (20, 15724), (27, 15661),

Gene: Alucard_22 Start: 15795, Stop: 15565, Start Num: 11
Candidate Starts for Alucard_22:
(Start: 11 @15795 has 143 MA's), (18, 15711), (27, 15630),

Gene: Anseraureola_22 Start: 15857, Stop: 15627, Start Num: 11
Candidate Starts for Anseraureola_22:
(Start: 11 @15857 has 143 MA's), (18, 15773), (27, 15692),

Gene: Aries55_22 Start: 15882, Stop: 15652, Start Num: 11
Candidate Starts for Aries55_22:
(5, 15924), (Start: 6 @15912 has 3 MA's), (Start: 11 @15882 has 143 MA's), (17, 15807), (18, 15798), (20, 15780), (26, 15729), (27, 15717),

Gene: Astro16_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for Astro16_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Avvas_22 Start: 15912, Stop: 15652, Start Num: 6
Candidate Starts for Avvas_22:
(5, 15924), (Start: 6 @15912 has 3 MA's), (Start: 11 @15882 has 143 MA's), (17, 15807), (18, 15798), (20, 15780), (26, 15729), (27, 15717),

Gene: Azizam_22 Start: 15804, Stop: 15577, Start Num: 11
Candidate Starts for Azizam_22:

(Start: 11 @15804 has 143 MA's), (17, 15729), (18, 15720), (20, 15702), (27, 15639),

Gene: Aztec_22 Start: 15800, Stop: 15570, Start Num: 11
Candidate Starts for Aztec_22:
(Start: 11 @15800 has 143 MA's), (18, 15716), (27, 15635),

Gene: Baine_22 Start: 15820, Stop: 15590, Start Num: 11
Candidate Starts for Baine_22:
(Start: 11 @15820 has 143 MA's), (18, 15736), (27, 15655),

Gene: BarBear_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for BarBear_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Belthelas_22 Start: 15930, Stop: 15703, Start Num: 11
Candidate Starts for Belthelas_22:
(Start: 11 @15930 has 143 MA's), (18, 15846), (27, 15765),

Gene: Berka_21 Start: 12933, Stop: 12670, Start Num: 9
Candidate Starts for Berka_21:
(4, 12969), (Start: 9 @12933 has 2 MA's), (10, 12927), (14, 12879), (17, 12846), (18, 12837), (21, 12804), (25, 12780), (29, 12750),

Gene: BinkBonk_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for BinkBonk_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Bintii_22 Start: 15885, Stop: 15655, Start Num: 11
Candidate Starts for Bintii_22:
(5, 15927), (Start: 11 @15885 has 143 MA's), (18, 15801), (20, 15783), (26, 15732), (27, 15720), (31, 15705),

Gene: Biscayne_22 Start: 15941, Stop: 15711, Start Num: 11
Candidate Starts for Biscayne_22:
(5, 15983), (Start: 6 @15971 has 3 MA's), (Start: 11 @15941 has 143 MA's), (18, 15857), (20, 15839), (26, 15788), (27, 15776),

Gene: BlueFeather_19 Start: 14096, Stop: 13785, Start Num: 9
Candidate Starts for BlueFeather_19:
(Start: 9 @14096 has 2 MA's), (14, 14048), (15, 14036), (18, 14006), (19, 13994), (20, 13988), (27, 13925), (28, 13922), (30, 13913), (32, 13874),

Gene: Bodhi17_22 Start: 15904, Stop: 15674, Start Num: 11
Candidate Starts for Bodhi17_22:
(Start: 11 @15904 has 143 MA's), (18, 15820), (27, 15739),

Gene: BonaeVitae_23 Start: 15770, Stop: 15543, Start Num: 11
Candidate Starts for BonaeVitae_23:
(Start: 11 @15770 has 143 MA's),

Gene: BoomRoasted_22 Start: 15882, Stop: 15652, Start Num: 11

Candidate Starts for BoomRoasted_22:
(Start: 11 @15882 has 143 MA's), (18, 15798), (27, 15717),

Gene: Bradley2_22 Start: 15799, Stop: 15569, Start Num: 11
Candidate Starts for Bradley2_22:
(Start: 11 @15799 has 143 MA's), (18, 15715), (27, 15634),

Gene: Bri160_22 Start: 15869, Stop: 15639, Start Num: 11
Candidate Starts for Bri160_22:
(Start: 11 @15869 has 143 MA's), (18, 15785), (27, 15704),

Gene: BrokMonster_22 Start: 15851, Stop: 15624, Start Num: 11
Candidate Starts for BrokMonster_22:
(Start: 11 @15851 has 143 MA's), (17, 15776), (18, 15767), (20, 15749), (27, 15686),

Gene: Bullzi2019_23 Start: 15568, Stop: 15338, Start Num: 11
Candidate Starts for Bullzi2019_23:
(5, 15610), (Start: 11 @15568 has 143 MA's), (18, 15484), (20, 15466), (26, 15415), (27, 15403),

Gene: Burgy_22 Start: 15883, Stop: 15653, Start Num: 11
Candidate Starts for Burgy_22:
(5, 15925), (Start: 6 @15913 has 3 MA's), (Start: 11 @15883 has 143 MA's), (17, 15808), (18, 15799), (20, 15781), (26, 15730), (27, 15718),

Gene: BurtonThePup_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for BurtonThePup_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Cayde6_22 Start: 15820, Stop: 15590, Start Num: 11
Candidate Starts for Cayde6_22:
(Start: 11 @15820 has 143 MA's), (18, 15736), (27, 15655),

Gene: Cazares_22 Start: 15349, Stop: 15119, Start Num: 11
Candidate Starts for Cazares_22:
(5, 15391), (Start: 11 @15349 has 143 MA's), (18, 15265), (20, 15247), (27, 15184),

Gene: Charbie_22 Start: 15859, Stop: 15629, Start Num: 11
Candidate Starts for Charbie_22:
(5, 15901), (Start: 6 @15889 has 3 MA's), (Start: 11 @15859 has 143 MA's), (17, 15784), (18, 15775), (20, 15757), (26, 15706), (27, 15694),

Gene: Chatham_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Chatham_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Cheesecake_22 Start: 15883, Stop: 15653, Start Num: 11
Candidate Starts for Cheesecake_22:
(5, 15925), (Start: 6 @15913 has 3 MA's), (Start: 11 @15883 has 143 MA's), (17, 15808), (18, 15799), (20, 15781), (26, 15730), (27, 15718),

Gene: Ciel_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for Ciel_22:

(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Clownery_22 Start: 15465, Stop: 15235, Start Num: 11
Candidate Starts for Clownery_22:
(5, 15507), (Start: 11 @15465 has 143 MA's), (18, 15381), (20, 15363), (26, 15312), (27, 15300),

Gene: Concrete_22 Start: 15859, Stop: 15629, Start Num: 11
Candidate Starts for Concrete_22:
(Start: 11 @15859 has 143 MA's), (18, 15775), (27, 15694),

Gene: DaftyDuck_22 Start: 15813, Stop: 15583, Start Num: 11
Candidate Starts for DaftyDuck_22:
(5, 15855), (Start: 6 @15843 has 3 MA's), (Start: 11 @15813 has 143 MA's), (17, 15738), (18, 15729), (20, 15711), (26, 15660), (27, 15648),

Gene: Danimal_22 Start: 15796, Stop: 15566, Start Num: 11
Candidate Starts for Danimal_22:
(Start: 11 @15796 has 143 MA's), (18, 15712), (27, 15631),

Gene: Danno_22 Start: 15882, Stop: 15652, Start Num: 11
Candidate Starts for Danno_22:
(5, 15924), (Start: 6 @15912 has 3 MA's), (Start: 11 @15882 has 143 MA's), (17, 15807), (18, 15798), (20, 15780), (26, 15729), (27, 15717),

Gene: DirtPie_22 Start: 15906, Stop: 15676, Start Num: 11
Candidate Starts for DirtPie_22:
(5, 15948), (Start: 6 @15936 has 3 MA's), (Start: 11 @15906 has 143 MA's), (17, 15831), (18, 15822), (20, 15804), (26, 15753), (27, 15741),

Gene: Dolores_34 Start: 27272, Stop: 27024, Start Num: 12
Candidate Starts for Dolores_34:
(Start: 12 @27272 has 3 MA's), (13, 27233), (19, 27179), (22, 27146), (24, 27134),

Gene: Dongwon_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Dongwon_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Dooby_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Dooby_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Douggie_22 Start: 15857, Stop: 15630, Start Num: 11
Candidate Starts for Douggie_22:
(Start: 11 @15857 has 143 MA's), (18, 15773), (20, 15755), (27, 15692),

Gene: Duggle_23 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Duggle_23:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: ELee24_21 Start: 15686, Stop: 15462, Start Num: 11
Candidate Starts for ELee24_21:
(Start: 11 @15686 has 143 MA's), (18, 15602),

Gene: EdElric_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for EdElric_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Efeko_23 Start: 15469, Stop: 15230, Start Num: 11
Candidate Starts for Efeko_23:
(2, 15580), (3, 15526), (5, 15511), (Start: 11 @15469 has 143 MA's), (23, 15331),

Gene: Eightball_22 Start: 15876, Stop: 15646, Start Num: 11
Candidate Starts for Eightball_22:
(5, 15918), (Start: 6 @15906 has 3 MA's), (Start: 11 @15876 has 143 MA's), (17, 15801), (18, 15792), (20, 15774), (26, 15723), (27, 15711),

Gene: Ekko14_23 Start: 15536, Stop: 15306, Start Num: 11
Candidate Starts for Ekko14_23:
(5, 15578), (Start: 11 @15536 has 143 MA's), (18, 15452), (20, 15434), (26, 15383), (27, 15371),

Gene: Elspeth_23 Start: 15536, Stop: 15306, Start Num: 11
Candidate Starts for Elspeth_23:
(5, 15578), (Start: 11 @15536 has 143 MA's), (18, 15452), (20, 15434), (26, 15383), (27, 15371),

Gene: Erin_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Erin_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Gabbspett_22 Start: 15914, Stop: 15684, Start Num: 11
Candidate Starts for Gabbspett_22:
(5, 15956), (Start: 6 @15944 has 3 MA's), (Start: 11 @15914 has 143 MA's), (18, 15830), (20, 15812), (26, 15761), (27, 15749),

Gene: Gardevoir_22 Start: 15828, Stop: 15598, Start Num: 11
Candidate Starts for Gardevoir_22:
(Start: 11 @15828 has 143 MA's), (18, 15744), (27, 15663),

Gene: Gillker_22 Start: 15793, Stop: 15563, Start Num: 11
Candidate Starts for Gillker_22:
(Start: 11 @15793 has 143 MA's), (18, 15709), (27, 15628),

Gene: Godfather_22 Start: 15912, Stop: 15652, Start Num: 6
Candidate Starts for Godfather_22:
(5, 15924), (Start: 6 @15912 has 3 MA's), (Start: 11 @15882 has 143 MA's), (17, 15807), (18, 15798), (20, 15780), (26, 15729), (27, 15717),

Gene: GoldenBlanche_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for GoldenBlanche_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Goobery_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for Goobery_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Goulash_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Goulash_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Grayscar_22 Start: 15883, Stop: 15653, Start Num: 11
Candidate Starts for Grayscar_22:
(5, 15925), (Start: 6 @15913 has 3 MA's), (Start: 11 @15883 has 143 MA's), (17, 15808), (18, 15799), (20, 15781), (26, 15730), (27, 15718),

Gene: HarperAnne_23 Start: 15535, Stop: 15305, Start Num: 11
Candidate Starts for HarperAnne_23:
(5, 15577), (Start: 11 @15535 has 143 MA's), (18, 15451), (20, 15433), (26, 15382), (27, 15370),

Gene: HeadMave_22 Start: 15876, Stop: 15646, Start Num: 11
Candidate Starts for HeadMave_22:
(5, 15918), (Start: 6 @15906 has 3 MA's), (Start: 11 @15876 has 143 MA's), (17, 15801), (18, 15792), (20, 15774), (26, 15723), (27, 15711),

Gene: Hernandez44_22 Start: 15907, Stop: 15677, Start Num: 11
Candidate Starts for Hernandez44_22:
(5, 15949), (Start: 6 @15937 has 3 MA's), (Start: 11 @15907 has 143 MA's), (17, 15832), (18, 15823), (20, 15805), (26, 15754), (27, 15742),

Gene: Horacetta_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Horacetta_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Hulk_22 Start: 15826, Stop: 15596, Start Num: 11
Candidate Starts for Hulk_22:
(5, 15868), (Start: 6 @15856 has 3 MA's), (Start: 11 @15826 has 143 MA's), (18, 15742), (20, 15724), (26, 15673), (27, 15661),

Gene: IzzyPants24_22 Start: 15387, Stop: 15157, Start Num: 11
Candidate Starts for IzzyPants24_22:
(5, 15429), (Start: 11 @15387 has 143 MA's), (18, 15303), (20, 15285), (26, 15234), (27, 15222), (31, 15207),

Gene: JRok_22 Start: 15802, Stop: 15575, Start Num: 11
Candidate Starts for JRok_22:
(Start: 11 @15802 has 143 MA's), (17, 15727), (18, 15718), (20, 15700), (27, 15637),

Gene: Jahseh_22 Start: 15800, Stop: 15570, Start Num: 11
Candidate Starts for Jahseh_22:
(Start: 11 @15800 has 143 MA's), (18, 15716), (27, 15635),

Gene: JaimeB_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for JaimeB_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Jannah_22 Start: 15861, Stop: 15631, Start Num: 11
Candidate Starts for Jannah_22:
(Start: 11 @15861 has 143 MA's), (18, 15777), (27, 15696),

Gene: Jella_23 Start: 15893, Stop: 15663, Start Num: 11
Candidate Starts for Jella_23:
(5, 15935), (Start: 6 @15923 has 3 MA's), (Start: 11 @15893 has 143 MA's), (17, 15818), (18, 15809), (20, 15791), (26, 15740), (27, 15728),

Gene: Jerky_22 Start: 15957, Stop: 15727, Start Num: 11
Candidate Starts for Jerky_22:
(5, 15999), (Start: 6 @15987 has 3 MA's), (Start: 11 @15957 has 143 MA's), (17, 15882), (18, 15873), (20, 15855), (26, 15804), (27, 15792),

Gene: JoBros_22 Start: 15795, Stop: 15565, Start Num: 11
Candidate Starts for JoBros_22:
(Start: 11 @15795 has 143 MA's), (18, 15711), (27, 15630),

Gene: JooneeDee_22 Start: 15885, Stop: 15655, Start Num: 11
Candidate Starts for JooneeDee_22:
(5, 15927), (Start: 11 @15885 has 143 MA's), (18, 15801), (20, 15783), (26, 15732), (27, 15720), (31, 15705),

Gene: Josuke_22 Start: 15883, Stop: 15653, Start Num: 11
Candidate Starts for Josuke_22:
(5, 15925), (Start: 6 @15913 has 3 MA's), (Start: 11 @15883 has 143 MA's), (17, 15808), (18, 15799), (20, 15781), (26, 15730), (27, 15718),

Gene: Kaijohn_22 Start: 15842, Stop: 15612, Start Num: 11
Candidate Starts for Kaijohn_22:
(5, 15884), (Start: 6 @15872 has 3 MA's), (Start: 11 @15842 has 143 MA's), (18, 15758), (20, 15740), (26, 15689), (27, 15677),

Gene: KayPaulus_22 Start: 15877, Stop: 15647, Start Num: 11
Candidate Starts for KayPaulus_22:
(Start: 11 @15877 has 143 MA's), (18, 15793), (27, 15712),

Gene: Kevanna_22 Start: 15860, Stop: 15633, Start Num: 11
Candidate Starts for Kevanna_22:
(Start: 11 @15860 has 143 MA's), (18, 15776), (20, 15758), (27, 15695),

Gene: KillerTomato_22 Start: 15869, Stop: 15639, Start Num: 11
Candidate Starts for KillerTomato_22:
(Start: 11 @15869 has 143 MA's), (18, 15785), (27, 15704),

Gene: Kojax4_22 Start: 15882, Stop: 15652, Start Num: 11
Candidate Starts for Kojax4_22:
(5, 15924), (Start: 6 @15912 has 3 MA's), (Start: 11 @15882 has 143 MA's), (17, 15807), (18, 15798), (20, 15780), (26, 15729), (27, 15717),

Gene: KyriosFaba_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for KyriosFaba_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: LaviMo_22 Start: 15883, Stop: 15653, Start Num: 11
Candidate Starts for LaviMo_22:

(5, 15925), (Start: 6 @15913 has 3 MA's), (Start: 11 @15883 has 143 MA's), (17, 15808), (18, 15799), (20, 15781), (26, 15730), (27, 15718),

Gene: Leafy_22 Start: 15826, Stop: 15599, Start Num: 11
Candidate Starts for Leafy_22:
(Start: 11 @15826 has 143 MA's), (18, 15742), (20, 15724), (27, 15661),

Gene: LemonPepper_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for LemonPepper_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: LionelHutz_22 Start: 15876, Stop: 15646, Start Num: 11
Candidate Starts for LionelHutz_22:
(5, 15918), (Start: 6 @15906 has 3 MA's), (Start: 11 @15876 has 143 MA's), (17, 15801), (18, 15792), (20, 15774), (26, 15723), (27, 15711),

Gene: Livingwater_22 Start: 15869, Stop: 15642, Start Num: 11
Candidate Starts for Livingwater_22:
(Start: 11 @15869 has 143 MA's), (18, 15785), (20, 15767), (27, 15704),

Gene: Loca_22 Start: 15894, Stop: 15667, Start Num: 11
Candidate Starts for Loca_22:
(Start: 11 @15894 has 143 MA's), (18, 15810), (20, 15792), (27, 15729),

Gene: Lola20_22 Start: 15820, Stop: 15590, Start Num: 11
Candidate Starts for Lola20_22:
(Start: 11 @15820 has 143 MA's), (18, 15736), (27, 15655),

Gene: Lunatic_22 Start: 15349, Stop: 15119, Start Num: 11
Candidate Starts for Lunatic_22:
(5, 15391), (Start: 11 @15349 has 143 MA's), (18, 15265), (20, 15247), (27, 15184),

Gene: Luxx_22 Start: 15893, Stop: 15663, Start Num: 11
Candidate Starts for Luxx_22:
(5, 15935), (Start: 6 @15923 has 3 MA's), (Start: 11 @15893 has 143 MA's), (17, 15818), (18, 15809), (20, 15791), (26, 15740), (27, 15728),

Gene: Madebyisha_22 Start: 15957, Stop: 15727, Start Num: 11
Candidate Starts for Madebyisha_22:
(5, 15999), (Start: 6 @15987 has 3 MA's), (Start: 11 @15957 has 143 MA's), (17, 15882), (18, 15873), (20, 15855), (26, 15804), (27, 15792),

Gene: Majesty_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for Majesty_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: ManAs_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for ManAs_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Maneater_22 Start: 15858, Stop: 15628, Start Num: 11
Candidate Starts for Maneater_22:

(5, 15900), (Start: 6 @15888 has 3 MA's), (Start: 11 @15858 has 143 MA's), (17, 15783), (18, 15774), (20, 15756), (26, 15705), (27, 15693),

Gene: Marichuy_23 Start: 15936, Stop: 15676, Start Num: 6
Candidate Starts for Marichuy_23:
(5, 15948), (Start: 6 @15936 has 3 MA's), (Start: 11 @15906 has 143 MA's), (17, 15831), (18, 15822), (20, 15804), (26, 15753), (27, 15741),

Gene: MasterPitts_22 Start: 15813, Stop: 15583, Start Num: 11
Candidate Starts for MasterPitts_22:
(5, 15855), (Start: 6 @15843 has 3 MA's), (Start: 11 @15813 has 143 MA's), (17, 15738), (18, 15729), (20, 15711), (26, 15660), (27, 15648),

Gene: MauiIvory_21 Start: 15262, Stop: 15032, Start Num: 11
Candidate Starts for MauiIvory_21:
(5, 15304), (Start: 11 @15262 has 143 MA's), (18, 15178), (20, 15160), (26, 15109), (27, 15097),

Gene: McShie_22 Start: 15852, Stop: 15625, Start Num: 11
Candidate Starts for McShie_22:
(Start: 11 @15852 has 143 MA's), (17, 15777), (18, 15768), (20, 15750), (27, 15687),

Gene: MelBee03_22 Start: 15860, Stop: 15633, Start Num: 11
Candidate Starts for MelBee03_22:
(Start: 11 @15860 has 143 MA's), (18, 15776), (20, 15758), (27, 15695),

Gene: Miaurora_22 Start: 15466, Stop: 15236, Start Num: 11
Candidate Starts for Miaurora_22:
(5, 15508), (Start: 11 @15466 has 143 MA's), (18, 15382), (20, 15364), (27, 15301),

Gene: Minima_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Minima_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: MirimarMandM_22 Start: 15928, Stop: 15698, Start Num: 11
Candidate Starts for MirimarMandM_22:
(5, 15970), (Start: 11 @15928 has 143 MA's), (18, 15844), (20, 15826), (26, 15775), (27, 15763), (31, 15748),

Gene: MrGreen_22 Start: 15836, Stop: 15609, Start Num: 11
Candidate Starts for MrGreen_22:
(Start: 11 @15836 has 143 MA's), (18, 15752), (27, 15671),

Gene: Myram_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Myram_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Naby_23 Start: 15767, Stop: 15540, Start Num: 11
Candidate Starts for Naby_23:
(Start: 11 @15767 has 143 MA's),

Gene: Namsahir_24 Start: 15610, Stop: 15380, Start Num: 11
Candidate Starts for Namsahir_24:
(5, 15652), (Start: 11 @15610 has 143 MA's), (18, 15526), (20, 15508), (27, 15445),

Gene: NeumannU_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for NeumannU_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Niffler_22 Start: 15439, Stop: 15209, Start Num: 11
Candidate Starts for Niffler_22:
(5, 15481), (Start: 11 @15439 has 143 MA's), (18, 15355), (20, 15337), (26, 15286), (27, 15274),

Gene: Nobel_22 Start: 15465, Stop: 15235, Start Num: 11
Candidate Starts for Nobel_22:
(5, 15507), (Start: 11 @15465 has 143 MA's), (18, 15381), (20, 15363), (26, 15312), (27, 15300),

Gene: Noelani_22 Start: 15771, Stop: 15541, Start Num: 11
Candidate Starts for Noelani_22:
(Start: 11 @15771 has 143 MA's), (18, 15687), (20, 15669), (27, 15606),

Gene: Oaklynn_22 Start: 15804, Stop: 15577, Start Num: 11
Candidate Starts for Oaklynn_22:
(Start: 11 @15804 has 143 MA's), (17, 15729), (18, 15720), (20, 15702), (27, 15639),

Gene: Octopus_22 Start: 15800, Stop: 15570, Start Num: 11
Candidate Starts for Octopus_22:
(Start: 11 @15800 has 143 MA's), (18, 15716), (27, 15635),

Gene: OdetoJoy_22 Start: 15957, Stop: 15727, Start Num: 11
Candidate Starts for OdetoJoy_22:
(5, 15999), (Start: 6 @15987 has 3 MA's), (Start: 11 @15957 has 143 MA's), (17, 15882), (18, 15873), (20, 15855), (26, 15804), (27, 15792),

Gene: Otwor_22 Start: 15884, Stop: 15654, Start Num: 11
Candidate Starts for Otwor_22:
(5, 15926), (Start: 6 @15914 has 3 MA's), (Start: 11 @15884 has 143 MA's), (17, 15809), (18, 15800), (20, 15782), (26, 15731), (27, 15719),

Gene: Owens_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for Owens_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: PaoPu_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for PaoPu_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Picconator_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for Picconator_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Picnic_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Picnic_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: PoRanda_22 Start: 15928, Stop: 15698, Start Num: 11
Candidate Starts for PoRanda_22:
(5, 15970), (Start: 11 @15928 has 143 MA's), (18, 15844), (20, 15826), (26, 15775), (27, 15763), (31, 15748),

Gene: Pondwater_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Pondwater_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Publix_23 Start: 15610, Stop: 15380, Start Num: 11
Candidate Starts for Publix_23:
(5, 15652), (Start: 11 @15610 has 143 MA's), (18, 15526), (20, 15508), (27, 15445),

Gene: Puddles3_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Puddles3_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: PuffyCat_22 Start: 15390, Stop: 15160, Start Num: 11
Candidate Starts for PuffyCat_22:
(5, 15432), (Start: 11 @15390 has 143 MA's), (18, 15306), (20, 15288), (26, 15237), (27, 15225),

Gene: Quaker_22 Start: 15869, Stop: 15642, Start Num: 11
Candidate Starts for Quaker_22:
(Start: 11 @15869 has 143 MA's), (18, 15785), (20, 15767), (27, 15704),

Gene: Rhogar_22 Start: 15876, Stop: 15646, Start Num: 11
Candidate Starts for Rhogar_22:
(5, 15918), (Start: 6 @15906 has 3 MA's), (Start: 11 @15876 has 143 MA's), (17, 15801), (18, 15792), (20, 15774), (26, 15723), (27, 15711),

Gene: Rhysand_22 Start: 15883, Stop: 15653, Start Num: 11
Candidate Starts for Rhysand_22:
(5, 15925), (Start: 6 @15913 has 3 MA's), (Start: 11 @15883 has 143 MA's), (17, 15808), (18, 15799), (20, 15781), (26, 15730), (27, 15718),

Gene: Rira_22 Start: 15387, Stop: 15157, Start Num: 11
Candidate Starts for Rira_22:
(5, 15429), (Start: 11 @15387 has 143 MA's), (18, 15303), (20, 15285), (26, 15234), (27, 15222), (31, 15207),

Gene: RoscoWindex_22 Start: 15883, Stop: 15653, Start Num: 11
Candidate Starts for RoscoWindex_22:
(5, 15925), (Start: 6 @15913 has 3 MA's), (Start: 11 @15883 has 143 MA's), (17, 15808), (18, 15799), (20, 15781), (26, 15730), (27, 15718),

Gene: Sachet_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Sachet_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Sage7_22 Start: 15882, Stop: 15652, Start Num: 11
Candidate Starts for Sage7_22:

(5, 15924), (Start: 6 @15912 has 3 MA's), (Start: 11 @15882 has 143 MA's), (17, 15807), (18, 15798), (20, 15780), (26, 15729), (27, 15717),

Gene: Samman98_33 Start: 26503, Stop: 26255, Start Num: 12
Candidate Starts for Samman98_33:
(Start: 12 @26503 has 3 MA's), (13, 26464), (19, 26410), (22, 26377), (24, 26365),

Gene: SantasSleigh_22 Start: 15936, Stop: 15676, Start Num: 6
Candidate Starts for SantasSleigh_22:
(5, 15948), (Start: 6 @15936 has 3 MA's), (Start: 11 @15906 has 143 MA's), (17, 15831), (18, 15822), (20, 15804), (26, 15753), (27, 15741),

Gene: Sara_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for Sara_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Scamander_22 Start: 15882, Stop: 15652, Start Num: 11
Candidate Starts for Scamander_22:
(5, 15924), (Start: 6 @15912 has 3 MA's), (Start: 11 @15882 has 143 MA's), (17, 15807), (18, 15798), (20, 15780), (26, 15729), (27, 15717),

Gene: Scrunchy_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for Scrunchy_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: SeaWolves_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for SeaWolves_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Sippinontea_22 Start: 15895, Stop: 15665, Start Num: 11
Candidate Starts for Sippinontea_22:
(Start: 11 @15895 has 143 MA's), (18, 15811), (27, 15730),

Gene: Slentz_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for Slentz_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Slizam_22 Start: 15387, Stop: 15157, Start Num: 11
Candidate Starts for Slizam_22:
(5, 15429), (Start: 11 @15387 has 143 MA's), (18, 15303), (20, 15285), (26, 15234), (27, 15222), (31, 15207),

Gene: Snuffles_24 Start: 15758, Stop: 15528, Start Num: 11
Candidate Starts for Snuffles_24:
(5, 15800), (Start: 11 @15758 has 143 MA's), (18, 15674), (20, 15656), (27, 15593),

Gene: Stem_22 Start: 15397, Stop: 15167, Start Num: 11
Candidate Starts for Stem_22:
(5, 15439), (Start: 11 @15397 has 143 MA's), (18, 15313), (20, 15295), (26, 15244), (27, 15232),

Gene: TeddyBoy_22 Start: 15877, Stop: 15647, Start Num: 11

Candidate Starts for TeddyBoy_22:
(5, 15919), (Start: 6 @15907 has 3 MA's), (Start: 11 @15877 has 143 MA's), (17, 15802), (18, 15793), (20, 15775), (26, 15724), (27, 15712),

Gene: TimoTea_22 Start: 15858, Stop: 15628, Start Num: 11
Candidate Starts for TimoTea_22:
(5, 15900), (Start: 6 @15888 has 3 MA's), (Start: 11 @15858 has 143 MA's), (17, 15783), (18, 15774), (20, 15756), (26, 15705), (27, 15693),

Gene: TinyTruffula_22 Start: 15465, Stop: 15235, Start Num: 11
Candidate Starts for TinyTruffula_22:
(5, 15507), (Start: 11 @15465 has 143 MA's), (18, 15381), (20, 15363), (26, 15312), (27, 15300),

Gene: TlaliMex_23 Start: 15956, Stop: 15726, Start Num: 11
Candidate Starts for TlaliMex_23:
(5, 15998), (Start: 11 @15956 has 143 MA's), (18, 15872), (20, 15854), (26, 15803), (27, 15791), (31, 15776),

Gene: TomBrady12_23 Start: 15587, Stop: 15357, Start Num: 11
Candidate Starts for TomBrady12_23:
(5, 15629), (Start: 11 @15587 has 143 MA's), (18, 15503), (20, 15485), (27, 15422),

Gene: Toxicola_23 Start: 15716, Stop: 15489, Start Num: 11
Candidate Starts for Toxicola_23:
(Start: 11 @15716 has 143 MA's), (18, 15632), (27, 15551),

Gene: Trackstar_22 Start: 15467, Stop: 15237, Start Num: 11
Candidate Starts for Trackstar_22:
(5, 15509), (Start: 11 @15467 has 143 MA's), (18, 15383), (20, 15365), (27, 15302),

Gene: Trireme_22 Start: 15464, Stop: 15234, Start Num: 11
Candidate Starts for Trireme_22:
(5, 15506), (Start: 11 @15464 has 143 MA's), (18, 15380), (20, 15362), (27, 15299),

Gene: Tuti_31 Start: 27865, Stop: 27596, Start Num: 8
Candidate Starts for Tuti_31:
(1, 27979), (7, 27874), (Start: 8 @27865 has 1 MA's), (16, 27784), (22, 27724), (24, 27712),

Gene: Tyrellus_22 Start: 15875, Stop: 15645, Start Num: 11
Candidate Starts for Tyrellus_22:
(5, 15917), (Start: 6 @15905 has 3 MA's), (Start: 11 @15875 has 143 MA's), (17, 15800), (18, 15791), (20, 15773), (26, 15722), (27, 15710),

Gene: Upsilon_22 Start: 15928, Stop: 15698, Start Num: 11
Candidate Starts for Upsilon_22:
(5, 15970), (Start: 11 @15928 has 143 MA's), (18, 15844), (20, 15826), (26, 15775), (27, 15763), (31, 15748),

Gene: Vanisius_22 Start: 15883, Stop: 15653, Start Num: 11
Candidate Starts for Vanisius_22:
(5, 15925), (Start: 6 @15913 has 3 MA's), (Start: 11 @15883 has 143 MA's), (17, 15808), (18, 15799), (20, 15781), (26, 15730), (27, 15718),

Gene: VitulaEligans_22 Start: 15964, Stop: 15734, Start Num: 11
Candidate Starts for VitulaEligans_22:
(5, 16006), (Start: 6 @15994 has 3 MA's), (Start: 11 @15964 has 143 MA's), (17, 15889), (18, 15880), (20, 15862), (26, 15811), (27, 15799),

Gene: WinkNick_35 Start: 27195, Stop: 26947, Start Num: 12
Candidate Starts for WinkNick_35:
(Start: 12 @27195 has 3 MA's), (13, 27156), (19, 27102), (22, 27069), (24, 27057),

Gene: Witch_22 Start: 15795, Stop: 15565, Start Num: 11
Candidate Starts for Witch_22:
(Start: 11 @15795 has 143 MA's), (18, 15711), (27, 15630),

Gene: Wolfpack_22 Start: 15877, Stop: 15647, Start Num: 11
Candidate Starts for Wolfpack_22:
(Start: 11 @15877 has 143 MA's), (18, 15793), (27, 15712),

Gene: Yami_22 Start: 15349, Stop: 15119, Start Num: 11
Candidate Starts for Yami_22:
(5, 15391), (Start: 11 @15349 has 143 MA's), (18, 15265), (20, 15247), (27, 15184),

Gene: Yasuo_22 Start: 15866, Stop: 15636, Start Num: 11
Candidate Starts for Yasuo_22:
(Start: 11 @15866 has 143 MA's), (18, 15782), (27, 15701),

Gene: YertPhresh_22 Start: 15794, Stop: 15564, Start Num: 11
Candidate Starts for YertPhresh_22:
(Start: 11 @15794 has 143 MA's), (18, 15710), (27, 15629),

Gene: Yubaba_22 Start: 15828, Stop: 15598, Start Num: 11
Candidate Starts for Yubaba_22:
(Start: 11 @15828 has 143 MA's), (18, 15744), (27, 15663),

Gene: Zahlia_22 Start: 15912, Stop: 15682, Start Num: 11
Candidate Starts for Zahlia_22:
(5, 15954), (Start: 6 @15942 has 3 MA's), (Start: 11 @15912 has 143 MA's), (17, 15837), (18, 15828), (20, 15810), (26, 15759), (27, 15747),