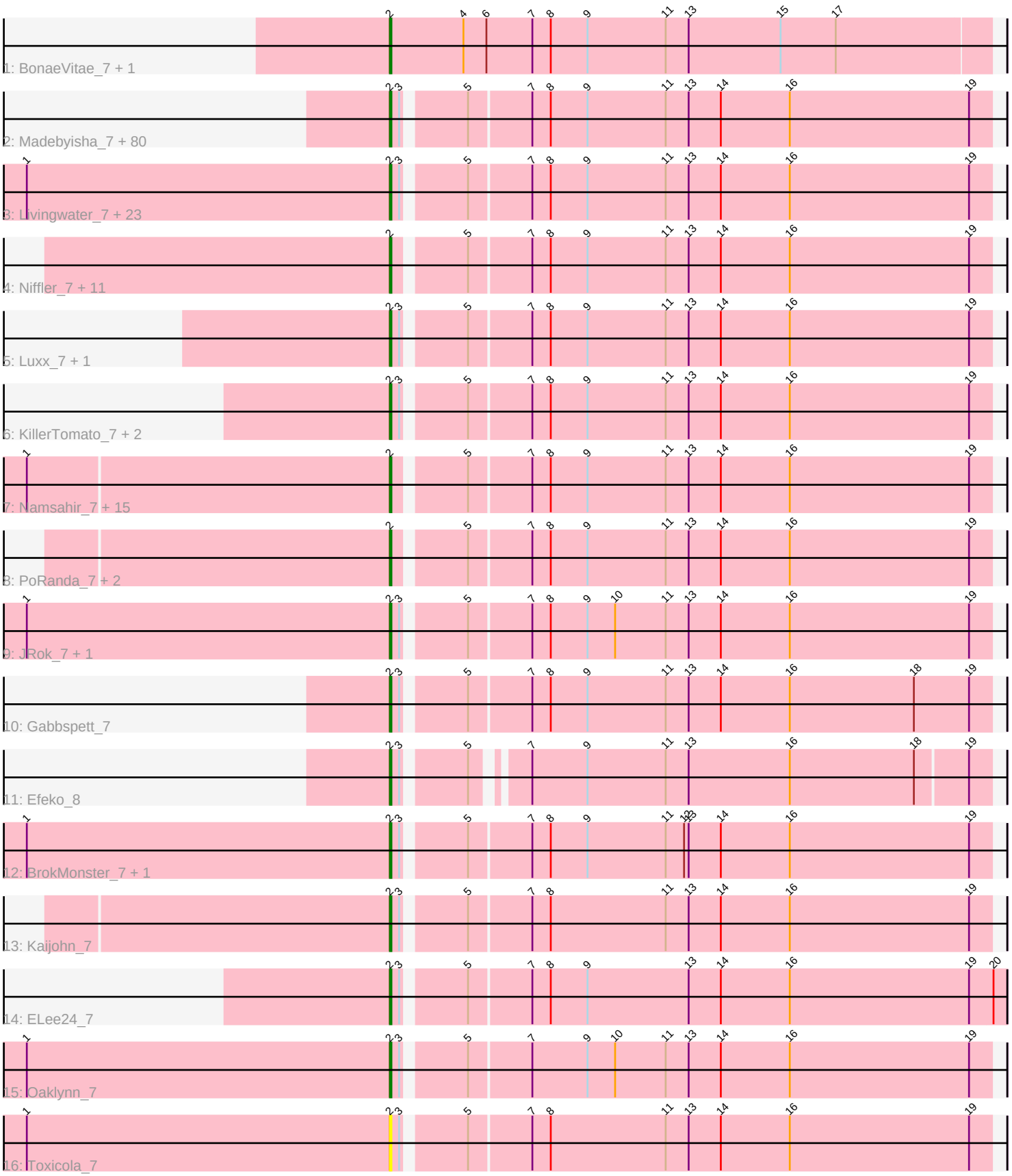
Pham 343715


1: BonaeVitae_7 + 1
2: Madebyisha_7 + 80
3: Livingwater_7 + 23
4: Niffler_7 + 11
5: Luxx_7 + 1
6: KillerTomato_7 + 2
7: Namsahir_7 + 15
8: PoRanda_7 + 2
9: JRok_7 + 1
10: Gabbspett_7
11: Efeko_8
12: BrokMonster_7 + 1
13: Kaijohn_7
14: ELee24_7
15: Oaklynn_7
16: Toxicola_7

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 343715 Report

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

Pham number 343715 has 153 members, 7 are drafts.

Phages represented in each track:
• Track 1 : BonaeVitae_7, Naby_7
• Track 2 : Madebyisha_7, SeaWolves_7, Alucard_7, Majesty_7, Goobery_7, Erin_7, Scamander_7, Burgy_7, Minima_7, Sachet_7, Lola20_7, JoBros_7, ManAs_7, Jahseh_7, NeumannU_7, Yasuo_7, Ciel_7, Goulash_7, Horacetta_7, Eightball_7, Aztec_7, Gillker_7, Avvas_7, Owens_7, TimoTea_7, Gardevoir_7, Cayde6_7, Dooby_7, Bradley2_7, Jannah_7, Dongwon_7, TeddyBoy_7, LionelHutz_7, MasterPitts_7, Concrete_7, GoldenBlanche_7, DirtPie_7, Bri160_7, JaimeB_7, Charbie_7, Tyrellus_7, Marichuy_7, Picnic_7, Myram_7, DaftyDuck_7, Sara_7, Aries55_7, Slentz_7, OdetoJoy_7, Rhogar_7, Puddles3_7, KyriosFaba_7, PaoPu_7, VitulaEligans_7, Danno_7, Pondwater_7, Maneater_7, Witch_7, BinkBonk_7, Anseraureola_7, Yubaba_7, BurtonThePup_7, BarBear_7, YertPhresh_7, Hernandez44_7, Octopus_7, Godfather_7, Chatham_7, Danimal_7, HeadMave_7, Jerky_7, Scrunchy_7, Duggle_7, Loca_7, LemonPepper_7, EdElric_7, Astro16_7, Baine_7, Kojax4_7, BoomRoasted_7, Picconator_7
• Track 3 : Livingwater_7, Abelaine_7, RoscoWindex_7, Biscayne_7, SantasSleigh_7, Quaker_7, MelBee03_7, Sippinontea_7, Zahlia_7, Otwor_7, Belthelas_7, Kevanna_7, Bodhi17_7, LaviMo_7, Grayscar_7, Josuke_7, Sage7_7, Rhysand_7, Leafy_7, Douggie_7, Wolfpack_7, Vanisius_7, Cheesecake_7, KayPaulus_7
• Track 4 : Niffler_7, Nobel_7, Lunatic_7, Trireme_7, TinyTruffula_7, Yami_7, Trackstar_7, Miaurora_7, Cazares_7, PuffyCat_7, TlaliMex_7, Clownery_7
• Track 5 : Luxx_7, Jella_7
• Track 6 : KillerTomato_7, MrGreen_7, Hulk_7
• Track 7 : Namsahir_7, HarperAnne_7, Slizam_7, JooneeDee_7, IzzyPants24_7, Elspeth_7, Ekko14_7, Rira_7, TomBrady12_7, Bintii_7, Bullzi2019_7, Noelani_7, Snuffles_8, Stem_7, Publix_7, MauiIvory_7
• Track 8 : PoRanda_7, MirimarMandM_7, Upsilon_7
• Track 9 : JRok_7, Azizam_7
• Track 10 : Gabbspett_7
• Track 11 : Efeko_8
• Track 12 : BrokMonster_7, McShie_7
• Track 13 : Kaijohn_7
• Track 14 : ELee24_7
• Track 15 : Oaklynn_7
• Track 16 : Toxicola_7

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

The start number called the most often in the published annotations is 2, it was called in 146 of the 146 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abelaine_7, Alucard_7, Anseraureola_7, Aries55_7, Astro16_7, Avvas_7, Azizam_7, Aztec_7, Baine_7, BarBear_7, Belthelas_7, BinkBonk_7, Bintii_7, Biscayne_7, Bodhi17_7, BonaeVitae_7, BoomRoasted_7, Bradley2_7, Bri160_7, BrokMonster_7, Bullzi2019_7, Burgy_7, BurtonThePup_7, Cayde6_7, Cazares_7, Charbie_7, Chatham_7, Cheesecake_7, Ciel_7, Clownery_7, Concrete_7, DaftyDuck_7, Danimal_7, Danno_7, DirtPie_7, Dongwon_7, Dooby_7, Douggie_7, Duggle_7, ELee24_7, EdElric_7, Efeko_8, Eightball_7, Ekko14_7, Elspeth_7, Erin_7, Gabbspett_7, Gardevoir_7, Gillker_7, Godfather_7, GoldenBlanche_7, Goobery_7, Goulash_7, Grayscar_7, HarperAnne_7, HeadMave_7, Hernandez44_7, Horacetta_7, Hulk_7, IzzyPants24_7, JRok_7, Jahseh_7, JaimeB_7, Jannah_7, Jella_7, Jerky_7, JoBros_7, JooneeDee_7, Josuke_7, Kaijohn_7, KayPaulus_7, Kevanna_7, KillerTomato_7, Kojax4_7, KyriosFaba_7, LaviMo_7, Leafy_7, LemonPepper_7, LionelHutz_7, Livingwater_7, Loca_7, Lola20_7, Lunatic_7, Luxx_7, Madebyisha_7, Majesty_7, ManAs_7, Maneater_7, Marichuy_7, MasterPitts_7, MauiIvory_7, McShie_7, MelBee03_7, Miaurora_7, Minima_7, MirimarMandM_7, MrGreen_7, Myram_7, Naby_7, Namsahir_7, NeumannU_7, Niffler_7, Nobel_7, Noelani_7, Oaklynn_7, Octopus_7, OdetoJoy_7, Otwor_7, Owens_7, PaoPu_7, Picconator_7, Picnic_7, PoRanda_7, Pondwater_7, Publix_7, Puddles3_7, PuffyCat_7, Quaker_7, Rhogar_7, Rhysand_7, Rira_7, RoscoWindex_7, Sachet_7, Sage7_7, SantasSleigh_7, Sara_7, Scamander_7, Scrunchy_7, SeaWolves_7, Sippinontea_7, Slentz_7, Slizam_7, Snuffles_8, Stem_7, TeddyBoy_7, TimoTea_7, TinyTruffula_7, TlaliMex_7, TomBrady12_7, Toxicola_7, Trackstar_7, Trireme_7, Tyrellus_7, Upsilon_7, Vanisius_7, VitulaEligans_7, Witch_7, Wolfpack_7, Yami_7, Yasuo_7, YertPhresh_7, Yubaba_7, Zahlia_7,

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

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

Summary by start number:

Start 2:
• Found in 153 of 153 (100.0%) of genes in pham
• Manual Annotations of this start: 146 of 146
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abelaine_7 (EE), Alucard_7 (EE), Anseraureola_7 (EE), Aries55_7 (EE), Astro16_7 (EE), Avvas_7 (EE), Azizam_7 (EE), Aztec_7 (EE), Baine_7 (EE), BarBear_7 (EE), Belthelas_7 (EE), BinkBonk_7 (EE), Bintii_7 (EE), Biscayne_7 (EE), Bodhi17_7 (EE), BonaeVitae_7 (EE), BoomRoasted_7 (EE), Bradley2_7 (EE), Bri160_7 (EE), BrokMonster_7 (EE), Bullzi2019_7 (EE), Burgy_7 (EE), BurtonThePup_7 (EE), Cayde6_7 (EE), Cazares_7 (EE), Charbie_7 (EE), Chatham_7 (EE), Cheesecake_7 (EE), Ciel_7 (EE), Clownery_7 (EE), Concrete_7 (EE), DaftyDuck_7 (EE), Danimal_7 (EE), Danno_7 (EE), DirtPie_7 (EE), Dongwon_7 (EE), Dooby_7 (EE), Douggie_7 (EE), Duggle_7

(EE), ELee24_7 (EE), EdElric_7 (EE), Efeko_8 (EE), Eightball_7 (EE), Ekko14_7 (EE), Elspeth_7 (EE), Erin_7 (EE), Gabbspett_7 (EE), Gardevoir_7 (EE), Gillker_7 (EE), Godfather_7 (EE), GoldenBlanche_7 (EE), Goobery_7 (EE), Goulash_7 (EE), Grayscar_7 (EE), HarperAnne_7 (EE), HeadMave_7 (EE), Hernandez44_7 (EE), Horacetta_7 (EE), Hulk_7 (EE), IzzyPants24_7 (EE), JRok_7 (EE), Jahseh_7 (EE), JaimeB_7 (EE), Jannah_7 (EE), Jella_7 (EE), Jerky_7 (EE), JoBros_7 (EE), JooneeDee_7 (EE), Josuke_7 (EE), Kaijohn_7 (EE), KayPaulus_7 (EE), Kevanna_7 (EE), KillerTomato_7 (EE), Kojax4_7 (EE), KyriosFaba_7 (EE), LaviMo_7 (EE), Leafy_7 (EE), LemonPepper_7 (EE), LionelHutz_7 (EE), Livingwater_7 (EE), Loca_7 (EE), Lola20_7 (EE), Lunatic_7 (EE), Luxx_7 (EE), Madebyisha_7 (EE), Majesty_7 (EE), ManAs_7 (EE), Maneater_7 (EE), Marichuy_7 (EE), MasterPitts_7 (EE), MauiIvory_7 (EE), McShie_7 (EE), MelBee03_7 (EE), Miaurora_7 (EE), Minima_7 (EE), MirimarMandM_7 (EE), MrGreen_7 (EE), Myram_7 (EE), Naby_7 (EE), Namsahir_7 (EE), NeumannU_7 (EE), Niffler_7 (EE), Nobel_7 (EE), Noelani_7 (EE), Oaklynn_7 (EE), Octopus_7 (EE), OdetoJoy_7 (EE), Otwor_7 (EE), Owens_7 (EE), PaoPu_7 (EE), Picconator_7 (EE), Picnic_7 (EE), PoRanda_7 (EE), Pondwater_7 (EE), Publix_7 (EE), Puddles3_7 (EE), PuffyCat_7 (EE), Quaker_7 (EE), Rhogar_7 (EE), Rhysand_7 (EE), Rira_7 (EE), RoscoWindex_7 (EE), Sachet_7 (EE), Sage7_7 (EE), SantasSleigh_7 (EE), Sara_7 (EE), Scamander_7 (EE), Scrunchy_7 (EE), SeaWolves_7 (EE), Sippinontea_7 (EE), Slentz_7 (EE), Slizam_7 (EE), Snuffles_8 (EE), Stem_7 (EE), TeddyBoy_7 (EE), TimoTea_7 (EE), TinyTruffula_7 (EE), TlaliMex_7 (EE), TomBrady12_7 (EE), Toxicola_7 (EE), Trackstar_7 (EE), Trireme_7 (EE), Tyrellus_7 (EE), Upsilon_7 (EE), Vanisius_7 (EE), VitulaEligans_7 (EE), Witch_7 (EE), Wolfpack_7 (EE), Yami_7 (EE), Yasuo_7 (EE), YertPhresh_7 (EE), Yubaba_7 (EE), Zahlia_7 (EE),

Summary by clusters:

There is one cluster represented in this pham: EE

Info for manual annotations of cluster EE:
•Start number 2 was manually annotated 146 times for cluster EE.

Gene Information:

Gene: Abelaine_7 Start: 5741, Stop: 6121, Start Num: 2
Candidate Starts for Abelaine_7:
(1, 5504), (Start: 2 @5741 has 146 MA's), (3, 5747), (5, 5783), (7, 5822), (8, 5834), (9, 5858), (11, 5909), (13, 5924), (14, 5945), (16, 5990), (19, 6107),

Gene: Alucard_7 Start: 5724, Stop: 6104, Start Num: 2
Candidate Starts for Alucard_7:
(Start: 2 @5724 has 146 MA's), (3, 5730), (5, 5766), (7, 5805), (8, 5817), (9, 5841), (11, 5892), (13, 5907), (14, 5928), (16, 5973), (19, 6090),

Gene: Anseraureola_7 Start: 5747, Stop: 6127, Start Num: 2
Candidate Starts for Anseraureola_7:
(Start: 2 @5747 has 146 MA's), (3, 5753), (5, 5789), (7, 5828), (8, 5840), (9, 5864), (11, 5915), (13, 5930), (14, 5951), (16, 5996), (19, 6113),

Gene: Aries55_7 Start: 5735, Stop: 6115, Start Num: 2

Candidate Starts for Aries55_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Astro16_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Astro16_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Avvas_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Avvas_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Azizam_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Azizam_7:
(1, 5486), (Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (10, 5858), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Aztec_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Aztec_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Baine_7 Start: 5720, Stop: 6100, Start Num: 2
Candidate Starts for Baine_7:
(Start: 2 @5720 has 146 MA's), (3, 5726), (5, 5762), (7, 5801), (8, 5813), (9, 5837), (11, 5888), (13, 5903), (14, 5924), (16, 5969), (19, 6086),

Gene: BarBear_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for BarBear_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Belthelas_7 Start: 5774, Stop: 6154, Start Num: 2
Candidate Starts for Belthelas_7:
(1, 5537), (Start: 2 @5774 has 146 MA's), (3, 5780), (5, 5816), (7, 5855), (8, 5867), (9, 5891), (11, 5942), (13, 5957), (14, 5978), (16, 6023), (19, 6140),

Gene: BinkBonk_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for BinkBonk_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Bintii_7 Start: 5750, Stop: 6130, Start Num: 2
Candidate Starts for Bintii_7:
(1, 5516), (Start: 2 @5750 has 146 MA's), (5, 5792), (7, 5831), (8, 5843), (9, 5867), (11, 5918), (13, 5933), (14, 5954), (16, 5999), (19, 6116),

Gene: Biscayne_7 Start: 5781, Stop: 6161, Start Num: 2
Candidate Starts for Biscayne_7:
(1, 5544), (Start: 2 @5781 has 146 MA's), (3, 5787), (5, 5823), (7, 5862), (8, 5874), (9, 5898), (11, 5949), (13, 5964), (14, 5985), (16, 6030), (19, 6147),

Gene: Bodhi17_7 Start: 5717, Stop: 6097, Start Num: 2
Candidate Starts for Bodhi17_7:
(1, 5480), (Start: 2 @5717 has 146 MA's), (3, 5723), (5, 5759), (7, 5798), (8, 5810), (9, 5834), (11, 5885), (13, 5900), (14, 5921), (16, 5966), (19, 6083),

Gene: BonaeVitae_7 Start: 5455, Stop: 5844, Start Num: 2
Candidate Starts for BonaeVitae_7:
(Start: 2 @5455 has 146 MA's), (4, 5503), (6, 5518), (7, 5548), (8, 5560), (9, 5584), (11, 5635), (13, 5650), (15, 5710), (17, 5746),

Gene: BoomRoasted_7 Start: 5771, Stop: 6151, Start Num: 2
Candidate Starts for BoomRoasted_7:
(Start: 2 @5771 has 146 MA's), (3, 5777), (5, 5813), (7, 5852), (8, 5864), (9, 5888), (11, 5939), (13, 5954), (14, 5975), (16, 6020), (19, 6137),

Gene: Bradley2_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Bradley2_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Bri160_7 Start: 5771, Stop: 6151, Start Num: 2
Candidate Starts for Bri160_7:
(Start: 2 @5771 has 146 MA's), (3, 5777), (5, 5813), (7, 5852), (8, 5864), (9, 5888), (11, 5939), (13, 5954), (14, 5975), (16, 6020), (19, 6137),

Gene: BrokMonster_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for BrokMonster_7:
(1, 5486), (Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (12, 5903), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Bullzi2019_7 Start: 5741, Stop: 6121, Start Num: 2
Candidate Starts for Bullzi2019_7:
(1, 5507), (Start: 2 @5741 has 146 MA's), (5, 5783), (7, 5822), (8, 5834), (9, 5858), (11, 5909), (13, 5924), (14, 5945), (16, 5990), (19, 6107),

Gene: Burgy_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Burgy_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: BurtonThePup_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for BurtonThePup_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Cayde6_7 Start: 5720, Stop: 6100, Start Num: 2
Candidate Starts for Cayde6_7:
(Start: 2 @5720 has 146 MA's), (3, 5726), (5, 5762), (7, 5801), (8, 5813), (9, 5837), (11, 5888), (13, 5903), (14, 5924), (16, 5969), (19, 6086),

Gene: Cazares_7 Start: 5711, Stop: 6091, Start Num: 2
Candidate Starts for Cazares_7:

(Start: 2 @5711 has 146 MA's), (5, 5753), (7, 5792), (8, 5804), (9, 5828), (11, 5879), (13, 5894), (14, 5915), (16, 5960), (19, 6077),

Gene: Charbie_7 Start: 5711, Stop: 6091, Start Num: 2
Candidate Starts for Charbie_7:
(Start: 2 @5711 has 146 MA's), (3, 5717), (5, 5753), (7, 5792), (8, 5804), (9, 5828), (11, 5879), (13, 5894), (14, 5915), (16, 5960), (19, 6077),

Gene: Chatham_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Chatham_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Cheesecake_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Cheesecake_7:
(1, 5498), (Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Ciel_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Ciel_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Clownery_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for Clownery_7:
(Start: 2 @5828 has 146 MA's), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),

Gene: Concrete_7 Start: 5771, Stop: 6151, Start Num: 2
Candidate Starts for Concrete_7:
(Start: 2 @5771 has 146 MA's), (3, 5777), (5, 5813), (7, 5852), (8, 5864), (9, 5888), (11, 5939), (13, 5954), (14, 5975), (16, 6020), (19, 6137),

Gene: DaftyDuck_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for DaftyDuck_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Danimal_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Danimal_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Danno_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Danno_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: DirtPie_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for DirtPie_7:
(Start: 2 @5828 has 146 MA's), (3, 5834), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),

Gene: Dongwon_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Dongwon_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Dooby_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Dooby_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Douggie_7 Start: 5717, Stop: 6097, Start Num: 2
Candidate Starts for Douggie_7:
(1, 5480), (Start: 2 @5717 has 146 MA's), (3, 5723), (5, 5759), (7, 5798), (8, 5810), (9, 5834), (11, 5885), (13, 5900), (14, 5921), (16, 5966), (19, 6083),

Gene: Duggle_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Duggle_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: ELee24_7 Start: 5777, Stop: 6166, Start Num: 2
Candidate Starts for ELee24_7:
(Start: 2 @5777 has 146 MA's), (3, 5783), (5, 5819), (7, 5858), (8, 5870), (9, 5894), (13, 5960), (14, 5981), (16, 6026), (19, 6143), (20, 6158),

Gene: EdElric_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for EdElric_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Efeko_8 Start: 5630, Stop: 5995, Start Num: 2
Candidate Starts for Efeko_8:
(Start: 2 @5630 has 146 MA's), (3, 5636), (5, 5672), (7, 5699), (9, 5735), (11, 5786), (13, 5801), (16, 5867), (18, 5948), (19, 5981),

Gene: Eightball_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Eightball_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Ekko14_7 Start: 5708, Stop: 6088, Start Num: 2
Candidate Starts for Ekko14_7:
(1, 5474), (Start: 2 @5708 has 146 MA's), (5, 5750), (7, 5789), (8, 5801), (9, 5825), (11, 5876), (13, 5891), (14, 5912), (16, 5957), (19, 6074),

Gene: Elspeth_7 Start: 5708, Stop: 6088, Start Num: 2
Candidate Starts for Elspeth_7:
(1, 5474), (Start: 2 @5708 has 146 MA's), (5, 5750), (7, 5789), (8, 5801), (9, 5825), (11, 5876), (13, 5891), (14, 5912), (16, 5957), (19, 6074),

Gene: Erin_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Erin_7:

(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Gabbspett_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for Gabbspett_7:
(Start: 2 @5828 has 146 MA's), (3, 5834), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (18, 6158), (19, 6194),

Gene: Gardevoir_7 Start: 5724, Stop: 6104, Start Num: 2
Candidate Starts for Gardevoir_7:
(Start: 2 @5724 has 146 MA's), (3, 5730), (5, 5766), (7, 5805), (8, 5817), (9, 5841), (11, 5892), (13, 5907), (14, 5928), (16, 5973), (19, 6090),

Gene: Gillker_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Gillker_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Godfather_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Godfather_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: GoldenBlanche_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for GoldenBlanche_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Goobery_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Goobery_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Goulash_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Goulash_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Grayscar_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Grayscar_7:
(1, 5498), (Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: HarperAnne_7 Start: 5708, Stop: 6088, Start Num: 2
Candidate Starts for HarperAnne_7:
(1, 5474), (Start: 2 @5708 has 146 MA's), (5, 5750), (7, 5789), (8, 5801), (9, 5825), (11, 5876), (13, 5891), (14, 5912), (16, 5957), (19, 6074),

Gene: HeadMave_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for HeadMave_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Hernandez44_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for Hernandez44_7:
(Start: 2 @5828 has 146 MA's), (3, 5834), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),

Gene: Horacetta_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Horacetta_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Hulk_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Hulk_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: IzzyPants24_7 Start: 5759, Stop: 6139, Start Num: 2
Candidate Starts for IzzyPants24_7:
(1, 5525), (Start: 2 @5759 has 146 MA's), (5, 5801), (7, 5840), (8, 5852), (9, 5876), (11, 5927), (13, 5942), (14, 5963), (16, 6008), (19, 6125),

Gene: JRok_7 Start: 5720, Stop: 6100, Start Num: 2
Candidate Starts for JRok_7:
(1, 5483), (Start: 2 @5720 has 146 MA's), (3, 5726), (5, 5762), (7, 5801), (8, 5813), (9, 5837), (10, 5855), (11, 5888), (13, 5903), (14, 5924), (16, 5969), (19, 6086),

Gene: Jahseh_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Jahseh_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: JaimeB_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for JaimeB_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Jannah_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Jannah_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Jella_7 Start: 5747, Stop: 6127, Start Num: 2
Candidate Starts for Jella_7:
(Start: 2 @5747 has 146 MA's), (3, 5753), (5, 5789), (7, 5828), (8, 5840), (9, 5864), (11, 5915), (13, 5930), (14, 5951), (16, 5996), (19, 6113),

Gene: Jerky_7 Start: 5807, Stop: 6187, Start Num: 2
Candidate Starts for Jerky_7:
(Start: 2 @5807 has 146 MA's), (3, 5813), (5, 5849), (7, 5888), (8, 5900), (9, 5924), (11, 5975), (13, 5990), (14, 6011), (16, 6056), (19, 6173),

Gene: JoBros_7 Start: 5724, Stop: 6104, Start Num: 2
Candidate Starts for JoBros_7:

(Start: 2 @5724 has 146 MA's), (3, 5730), (5, 5766), (7, 5805), (8, 5817), (9, 5841), (11, 5892), (13, 5907), (14, 5928), (16, 5973), (19, 6090),

Gene: JooneeDee_7 Start: 5750, Stop: 6130, Start Num: 2
Candidate Starts for JooneeDee_7:
(1, 5516), (Start: 2 @5750 has 146 MA's), (5, 5792), (7, 5831), (8, 5843), (9, 5867), (11, 5918), (13, 5933), (14, 5954), (16, 5999), (19, 6116),

Gene: Josuke_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Josuke_7:
(1, 5498), (Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Kaijohn_7 Start: 5726, Stop: 6106, Start Num: 2
Candidate Starts for Kaijohn_7:
(Start: 2 @5726 has 146 MA's), (3, 5732), (5, 5768), (7, 5807), (8, 5819), (11, 5894), (13, 5909), (14, 5930), (16, 5975), (19, 6092),

Gene: KayPaulus_7 Start: 5717, Stop: 6097, Start Num: 2
Candidate Starts for KayPaulus_7:
(1, 5480), (Start: 2 @5717 has 146 MA's), (3, 5723), (5, 5759), (7, 5798), (8, 5810), (9, 5834), (11, 5885), (13, 5900), (14, 5921), (16, 5966), (19, 6083),

Gene: Kevanna_7 Start: 5717, Stop: 6097, Start Num: 2
Candidate Starts for Kevanna_7:
(1, 5480), (Start: 2 @5717 has 146 MA's), (3, 5723), (5, 5759), (7, 5798), (8, 5810), (9, 5834), (11, 5885), (13, 5900), (14, 5921), (16, 5966), (19, 6083),

Gene: KillerTomato_7 Start: 5771, Stop: 6151, Start Num: 2
Candidate Starts for KillerTomato_7:
(Start: 2 @5771 has 146 MA's), (3, 5777), (5, 5813), (7, 5852), (8, 5864), (9, 5888), (11, 5939), (13, 5954), (14, 5975), (16, 6020), (19, 6137),

Gene: Kojax4_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Kojax4_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: KyriosFaba_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for KyriosFaba_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: LaviMo_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for LaviMo_7:
(1, 5498), (Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Leafy_7 Start: 5741, Stop: 6121, Start Num: 2
Candidate Starts for Leafy_7:
(1, 5504), (Start: 2 @5741 has 146 MA's), (3, 5747), (5, 5783), (7, 5822), (8, 5834), (9, 5858), (11, 5909), (13, 5924), (14, 5945), (16, 5990), (19, 6107),

Gene: LemonPepper_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for LemonPepper_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: LionelHutz_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for LionelHutz_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Livingwater_7 Start: 5717, Stop: 6097, Start Num: 2
Candidate Starts for Livingwater_7:
(1, 5480), (Start: 2 @5717 has 146 MA's), (3, 5723), (5, 5759), (7, 5798), (8, 5810), (9, 5834), (11, 5885), (13, 5900), (14, 5921), (16, 5966), (19, 6083),

Gene: Loca_7 Start: 5744, Stop: 6124, Start Num: 2
Candidate Starts for Loca_7:
(Start: 2 @5744 has 146 MA's), (3, 5750), (5, 5786), (7, 5825), (8, 5837), (9, 5861), (11, 5912), (13, 5927), (14, 5948), (16, 5993), (19, 6110),

Gene: Lola20_7 Start: 5720, Stop: 6100, Start Num: 2
Candidate Starts for Lola20_7:
(Start: 2 @5720 has 146 MA's), (3, 5726), (5, 5762), (7, 5801), (8, 5813), (9, 5837), (11, 5888), (13, 5903), (14, 5924), (16, 5969), (19, 6086),

Gene: Lunatic_7 Start: 5711, Stop: 6091, Start Num: 2
Candidate Starts for Lunatic_7:
(Start: 2 @5711 has 146 MA's), (5, 5753), (7, 5792), (8, 5804), (9, 5828), (11, 5879), (13, 5894), (14, 5915), (16, 5960), (19, 6077),

Gene: Luxx_7 Start: 5747, Stop: 6127, Start Num: 2
Candidate Starts for Luxx_7:
(Start: 2 @5747 has 146 MA's), (3, 5753), (5, 5789), (7, 5828), (8, 5840), (9, 5864), (11, 5915), (13, 5930), (14, 5951), (16, 5996), (19, 6113),

Gene: Madebyisha_7 Start: 5807, Stop: 6187, Start Num: 2
Candidate Starts for Madebyisha_7:
(Start: 2 @5807 has 146 MA's), (3, 5813), (5, 5849), (7, 5888), (8, 5900), (9, 5924), (11, 5975), (13, 5990), (14, 6011), (16, 6056), (19, 6173),

Gene: Majesty_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Majesty_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: ManAs_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for ManAs_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Maneater_7 Start: 5711, Stop: 6091, Start Num: 2
Candidate Starts for Maneater_7:

(Start: 2 @5711 has 146 MA's), (3, 5717), (5, 5753), (7, 5792), (8, 5804), (9, 5828), (11, 5879), (13, 5894), (14, 5915), (16, 5960), (19, 6077),

Gene: Marichuy_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for Marichuy_7:
(Start: 2 @5828 has 146 MA's), (3, 5834), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),

Gene: MasterPitts_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for MasterPitts_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: MauiIvory_7 Start: 5825, Stop: 6205, Start Num: 2
Candidate Starts for MauiIvory_7:
(1, 5591), (Start: 2 @5825 has 146 MA's), (5, 5867), (7, 5906), (8, 5918), (9, 5942), (11, 5993), (13, 6008), (14, 6029), (16, 6074), (19, 6191),

Gene: McShie_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for McShie_7:
(1, 5486), (Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (12, 5903), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: MelBee03_7 Start: 5717, Stop: 6097, Start Num: 2
Candidate Starts for MelBee03_7:
(1, 5480), (Start: 2 @5717 has 146 MA's), (3, 5723), (5, 5759), (7, 5798), (8, 5810), (9, 5834), (11, 5885), (13, 5900), (14, 5921), (16, 5966), (19, 6083),

Gene: Miaurora_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for Miaurora_7:
(Start: 2 @5828 has 146 MA's), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),

Gene: Minima_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Minima_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: MirimarMandM_7 Start: 5792, Stop: 6172, Start Num: 2
Candidate Starts for MirimarMandM_7:
(Start: 2 @5792 has 146 MA's), (5, 5834), (7, 5873), (8, 5885), (9, 5909), (11, 5960), (13, 5975), (14, 5996), (16, 6041), (19, 6158),

Gene: MrGreen_7 Start: 5738, Stop: 6118, Start Num: 2
Candidate Starts for MrGreen_7:
(Start: 2 @5738 has 146 MA's), (3, 5744), (5, 5780), (7, 5819), (8, 5831), (9, 5855), (11, 5906), (13, 5921), (14, 5942), (16, 5987), (19, 6104),

Gene: Myram_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Myram_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Naby_7 Start: 5455, Stop: 5844, Start Num: 2
Candidate Starts for Naby_7:
(Start: 2 @5455 has 146 MA's), (4, 5503), (6, 5518), (7, 5548), (8, 5560), (9, 5584), (11, 5635), (13, 5650), (15, 5710), (17, 5746),

Gene: Namsahir_7 Start: 5783, Stop: 6163, Start Num: 2
Candidate Starts for Namsahir_7:
(1, 5549), (Start: 2 @5783 has 146 MA's), (5, 5825), (7, 5864), (8, 5876), (9, 5900), (11, 5951), (13, 5966), (14, 5987), (16, 6032), (19, 6149),

Gene: NeumannU_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for NeumannU_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Niffler_7 Start: 5801, Stop: 6181, Start Num: 2
Candidate Starts for Niffler_7:
(Start: 2 @5801 has 146 MA's), (5, 5843), (7, 5882), (8, 5894), (9, 5918), (11, 5969), (13, 5984), (14, 6005), (16, 6050), (19, 6167),

Gene: Nobel_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for Nobel_7:
(Start: 2 @5828 has 146 MA's), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),

Gene: Noelani_7 Start: 5708, Stop: 6088, Start Num: 2
Candidate Starts for Noelani_7:
(1, 5474), (Start: 2 @5708 has 146 MA's), (5, 5750), (7, 5789), (8, 5801), (9, 5825), (11, 5876), (13, 5891), (14, 5912), (16, 5957), (19, 6074),

Gene: Oaklynn_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Oaklynn_7:
(1, 5486), (Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (9, 5840), (10, 5858), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Octopus_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Octopus_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: OdetoJoy_7 Start: 5807, Stop: 6187, Start Num: 2
Candidate Starts for OdetoJoy_7:
(Start: 2 @5807 has 146 MA's), (3, 5813), (5, 5849), (7, 5888), (8, 5900), (9, 5924), (11, 5975), (13, 5990), (14, 6011), (16, 6056), (19, 6173),

Gene: Otwor_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Otwor_7:
(1, 5498), (Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Owens_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Owens_7:

(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: PaoPu_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for PaoPu_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Picconator_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Picconator_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Picnic_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Picnic_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: PoRanda_7 Start: 5792, Stop: 6172, Start Num: 2
Candidate Starts for PoRanda_7:
(Start: 2 @5792 has 146 MA's), (5, 5834), (7, 5873), (8, 5885), (9, 5909), (11, 5960), (13, 5975), (14, 5996), (16, 6041), (19, 6158),

Gene: Pondwater_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Pondwater_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Publix_7 Start: 5783, Stop: 6163, Start Num: 2
Candidate Starts for Publix_7:
(1, 5549), (Start: 2 @5783 has 146 MA's), (5, 5825), (7, 5864), (8, 5876), (9, 5900), (11, 5951), (13, 5966), (14, 5987), (16, 6032), (19, 6149),

Gene: Puddles3_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Puddles3_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: PuffyCat_7 Start: 5753, Stop: 6133, Start Num: 2
Candidate Starts for PuffyCat_7:
(Start: 2 @5753 has 146 MA's), (5, 5795), (7, 5834), (8, 5846), (9, 5870), (11, 5921), (13, 5936), (14, 5957), (16, 6002), (19, 6119),

Gene: Quaker_7 Start: 5717, Stop: 6097, Start Num: 2
Candidate Starts for Quaker_7:
(1, 5480), (Start: 2 @5717 has 146 MA's), (3, 5723), (5, 5759), (7, 5798), (8, 5810), (9, 5834), (11, 5885), (13, 5900), (14, 5921), (16, 5966), (19, 6083),

Gene: Rhogar_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Rhogar_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Rhysand_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Rhysand_7:
(1, 5498), (Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Rira_7 Start: 5759, Stop: 6139, Start Num: 2
Candidate Starts for Rira_7:
(1, 5525), (Start: 2 @5759 has 146 MA's), (5, 5801), (7, 5840), (8, 5852), (9, 5876), (11, 5927), (13, 5942), (14, 5963), (16, 6008), (19, 6125),

Gene: RoscoWindex_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for RoscoWindex_7:
(1, 5498), (Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Sachet_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Sachet_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Sage7_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Sage7_7:
(1, 5498), (Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: SantasSleigh_7 Start: 5759, Stop: 6139, Start Num: 2
Candidate Starts for SantasSleigh_7:
(1, 5522), (Start: 2 @5759 has 146 MA's), (3, 5765), (5, 5801), (7, 5840), (8, 5852), (9, 5876), (11, 5927), (13, 5942), (14, 5963), (16, 6008), (19, 6125),

Gene: Sara_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for Sara_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Scamander_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Scamander_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Scrunchy_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Scrunchy_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: SeaWolves_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for SeaWolves_7:
(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Sippinontea_7 Start: 5717, Stop: 6097, Start Num: 2
Candidate Starts for Sippinontea_7:

(1, 5480), (Start: 2 @5717 has 146 MA's), (3, 5723), (5, 5759), (7, 5798), (8, 5810), (9, 5834), (11, 5885), (13, 5900), (14, 5921), (16, 5966), (19, 6083),

Gene: Slentz_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Slentz_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Slizam_7 Start: 5759, Stop: 6139, Start Num: 2
Candidate Starts for Slizam_7:
(1, 5525), (Start: 2 @5759 has 146 MA's), (5, 5801), (7, 5840), (8, 5852), (9, 5876), (11, 5927), (13, 5942), (14, 5963), (16, 6008), (19, 6125),

Gene: Snuffles_8 Start: 5929, Stop: 6309, Start Num: 2
Candidate Starts for Snuffles_8:
(1, 5695), (Start: 2 @5929 has 146 MA's), (5, 5971), (7, 6010), (8, 6022), (9, 6046), (11, 6097), (13, 6112), (14, 6133), (16, 6178), (19, 6295),

Gene: Stem_7 Start: 5759, Stop: 6139, Start Num: 2
Candidate Starts for Stem_7:
(1, 5525), (Start: 2 @5759 has 146 MA's), (5, 5801), (7, 5840), (8, 5852), (9, 5876), (11, 5927), (13, 5942), (14, 5963), (16, 6008), (19, 6125),

Gene: TeddyBoy_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for TeddyBoy_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: TimoTea_7 Start: 5711, Stop: 6091, Start Num: 2
Candidate Starts for TimoTea_7:
(Start: 2 @5711 has 146 MA's), (3, 5717), (5, 5753), (7, 5792), (8, 5804), (9, 5828), (11, 5879), (13, 5894), (14, 5915), (16, 5960), (19, 6077),

Gene: TinyTruffula_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for TinyTruffula_7:
(Start: 2 @5828 has 146 MA's), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),

Gene: TlaliMex_7 Start: 5822, Stop: 6202, Start Num: 2
Candidate Starts for TlaliMex_7:
(Start: 2 @5822 has 146 MA's), (5, 5864), (7, 5903), (8, 5915), (9, 5939), (11, 5990), (13, 6005), (14, 6026), (16, 6071), (19, 6188),

Gene: TomBrady12_7 Start: 5759, Stop: 6139, Start Num: 2
Candidate Starts for TomBrady12_7:
(1, 5525), (Start: 2 @5759 has 146 MA's), (5, 5801), (7, 5840), (8, 5852), (9, 5876), (11, 5927), (13, 5942), (14, 5963), (16, 6008), (19, 6125),

Gene: Toxicola_7 Start: 5636, Stop: 6016, Start Num: 2
Candidate Starts for Toxicola_7:
(1, 5399), (Start: 2 @5636 has 146 MA's), (3, 5642), (5, 5678), (7, 5717), (8, 5729), (11, 5804), (13, 5819), (14, 5840), (16, 5885), (19, 6002),

Gene: Trackstar_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for Trackstar_7:
(Start: 2 @5828 has 146 MA's), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),

Gene: Trireme_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for Trireme_7:
(Start: 2 @5828 has 146 MA's), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),

Gene: Tyrellus_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Tyrellus_7:
(Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: Upsilon_7 Start: 5792, Stop: 6172, Start Num: 2
Candidate Starts for Upsilon_7:
(Start: 2 @5792 has 146 MA's), (5, 5834), (7, 5873), (8, 5885), (9, 5909), (11, 5960), (13, 5975), (14, 5996), (16, 6041), (19, 6158),

Gene: Vanisius_7 Start: 5735, Stop: 6115, Start Num: 2
Candidate Starts for Vanisius_7:
(1, 5498), (Start: 2 @5735 has 146 MA's), (3, 5741), (5, 5777), (7, 5816), (8, 5828), (9, 5852), (11, 5903), (13, 5918), (14, 5939), (16, 5984), (19, 6101),

Gene: VitulaEligans_7 Start: 5807, Stop: 6187, Start Num: 2
Candidate Starts for VitulaEligans_7:
(Start: 2 @5807 has 146 MA's), (3, 5813), (5, 5849), (7, 5888), (8, 5900), (9, 5924), (11, 5975), (13, 5990), (14, 6011), (16, 6056), (19, 6173),

Gene: Witch_7 Start: 5724, Stop: 6104, Start Num: 2
Candidate Starts for Witch_7:
(Start: 2 @5724 has 146 MA's), (3, 5730), (5, 5766), (7, 5805), (8, 5817), (9, 5841), (11, 5892), (13, 5907), (14, 5928), (16, 5973), (19, 6090),

Gene: Wolfpack_7 Start: 5717, Stop: 6097, Start Num: 2
Candidate Starts for Wolfpack_7:
(1, 5480), (Start: 2 @5717 has 146 MA's), (3, 5723), (5, 5759), (7, 5798), (8, 5810), (9, 5834), (11, 5885), (13, 5900), (14, 5921), (16, 5966), (19, 6083),

Gene: Yami_7 Start: 5711, Stop: 6091, Start Num: 2
Candidate Starts for Yami_7:
(Start: 2 @5711 has 146 MA's), (5, 5753), (7, 5792), (8, 5804), (9, 5828), (11, 5879), (13, 5894), (14, 5915), (16, 5960), (19, 6077),

Gene: Yasuo_7 Start: 5720, Stop: 6100, Start Num: 2
Candidate Starts for Yasuo_7:
(Start: 2 @5720 has 146 MA's), (3, 5726), (5, 5762), (7, 5801), (8, 5813), (9, 5837), (11, 5888), (13, 5903), (14, 5924), (16, 5969), (19, 6086),

Gene: YertPhresh_7 Start: 5723, Stop: 6103, Start Num: 2
Candidate Starts for YertPhresh_7:

(Start: 2 @5723 has 146 MA's), (3, 5729), (5, 5765), (7, 5804), (8, 5816), (9, 5840), (11, 5891), (13, 5906), (14, 5927), (16, 5972), (19, 6089),

Gene: Yubaba_7 Start: 5724, Stop: 6104, Start Num: 2
Candidate Starts for Yubaba_7:
(Start: 2 @5724 has 146 MA's), (3, 5730), (5, 5766), (7, 5805), (8, 5817), (9, 5841), (11, 5892), (13, 5907), (14, 5928), (16, 5973), (19, 6090),

Gene: Zahlia_7 Start: 5828, Stop: 6208, Start Num: 2
Candidate Starts for Zahlia_7:
(1, 5591), (Start: 2 @5828 has 146 MA's), (3, 5834), (5, 5870), (7, 5909), (8, 5921), (9, 5945), (11, 5996), (13, 6011), (14, 6032), (16, 6077), (19, 6194),