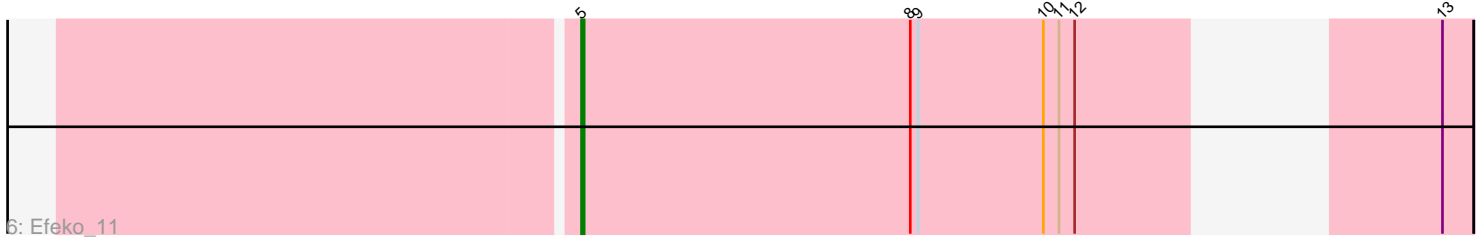
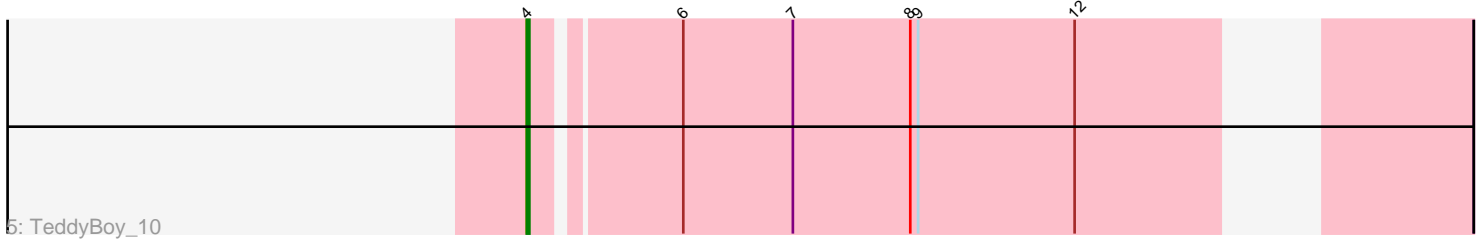
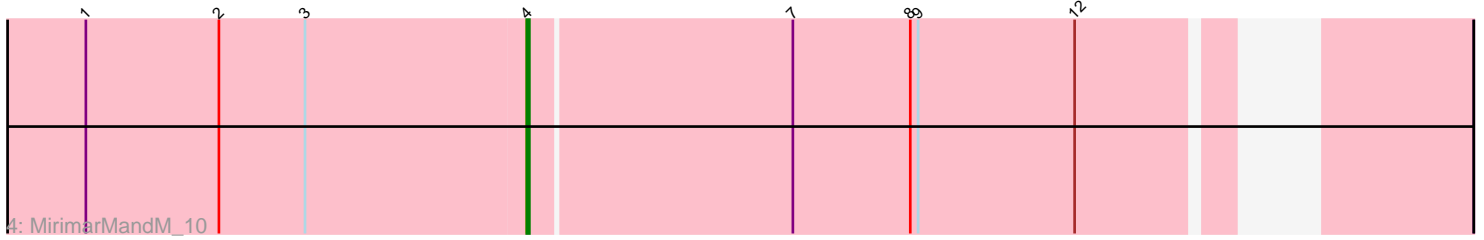
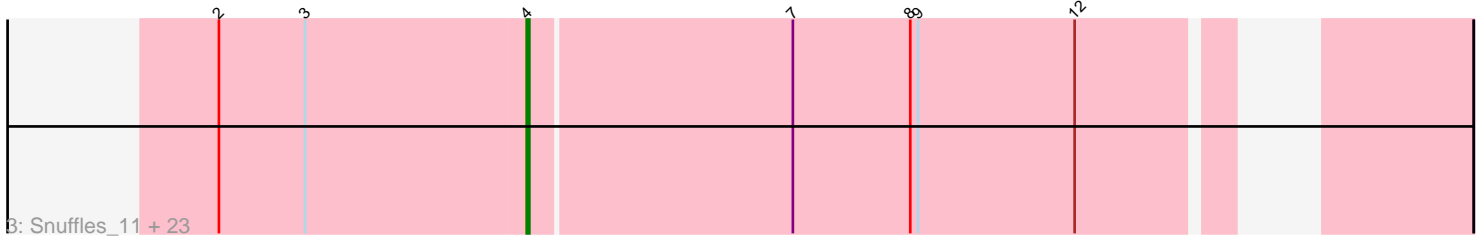
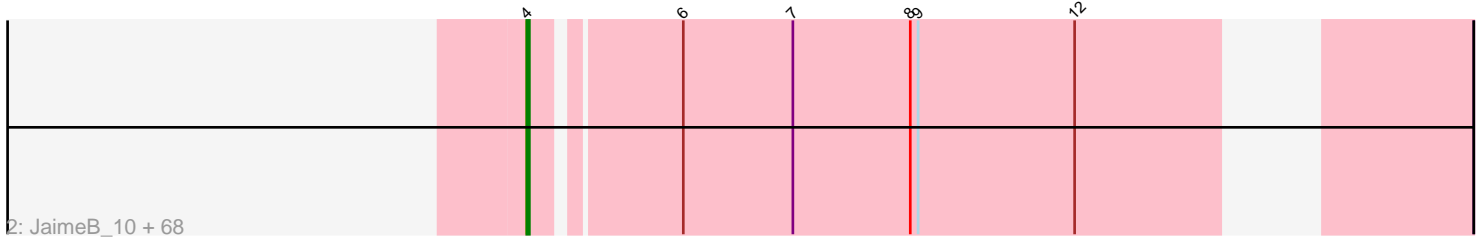
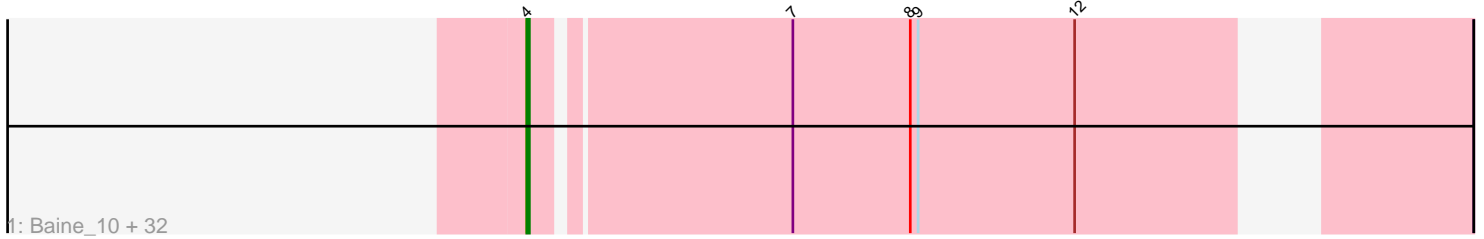


Pham 180332



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 180332 Report

This analysis was run 11/02/24 on database version 579.

Pham number 180332 has 129 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Baine_10, McShie_10, Lola20_10, Leafy_10, Quaker_10, Gabbspett_10, Hernandez44_10, Oaklynn_10, KayPaulus_10, Belthelas_10, MelBee03_10, KillerTomato_10, Kaijohn_10, Anseraureola_10, Cayde6_10, Bri160_10, JRok_10, Wolfpack_10, Sippinontea_10, Noelani_10, MrGreen_10, Jerky_10, Concrete_10, BoomRoasted_10, Douggie_10, Azizam_10, BrokMonster_10, VitulaEligans_10, Loca_10, Livingwater_10, Bodhi17_10, Biscayne_10, Kevanna_10
- Track 2 : JaimeB_10, MasterPitts_10, Octopus_10, Alucard_10, Burgy_10, YertPhresh_10, LionelHutz_10, Otwor_10, BurtonThePup_10, EdElric_10, Puddles3_10, Rhogar_10, Jannah_10, Bradley2_10, Horacetta_10, SeaWolves_10, Picnic_10, Owens_10, Slentz_10, Erin_10, Rhysand_10, Ciel_10, PaoPu_10, Jahseh_10, NeumannU_10, TimoTea_10, BinkBonk_10, Vanisius_10, Hulk_10, Josuke_10, SantasSleigh_10, Aztec_10, Danimal_10, Chatham_10, Dooby_10, Gardevoir_10, Godfather_10, GoldenBlanche_10, Luxx_10, Charbie_10, Scrunchy_10, Danno_10, Goobery_10, Minima_10, Eightball_10, LemonPepper_10, ManAs_10, KyriosFaba_10, Aries55_10, Scamander_10, Gillker_10, Maneater_10, Pondwater_10, Majesty_10, Sage7_10, BarBear_10, JoBros_10, Kojax4_10, Astro16_10, Cheesecake_10, RoscoWindex_10, Avvas_10, Yasuo_10, LaviMo_10, Witch_10, Dongwon_10, DaftyDuck_10, Sara_10, Yubaba_10
- Track 3 : Snuffles_11, Miaurora_10, Lunatic_10, Nobel_10, Namsahir_10, Stem_10, PuffyCat_10, Ekko14_10, Bintii_10, Yami_10, TinyTruffula_10, Bullzi2019_10, HarperAnne_11, Clownery_10, Elspeth_10, Niffler_10, TomBrady12_10, JooneeDee_10, Trireme_10, Upsilon_10, Publix_10, Cazares_10, Slizam_10, PoRanda_10
- Track 4 : MirimarMandM_10
- Track 5 : TeddyBoy_10
- Track 6 : Efeko_11

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

The start number called the most often in the published annotations is 4, it was called in 122 of the 123 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alucard_10, Anseraureola_10, Aries55_10, Astro16_10, Avvas_10, Azizam_10, Aztec_10, Baine_10, BarBear_10, Belthelas_10, BinkBonk_10, Bintii_10, Biscayne_10, Bodhi17_10, BoomRoasted_10, Bradley2_10, Bri160_10, BrokMonster_10, Bullzi2019_10, Burgy_10, BurtonThePup_10, Cayde6_10, Cazares_10, Charbie_10, Chatham_10, Cheesecake_10, Ciel_10, Clownery_10, Concrete_10, DaftyDuck_10, Danimal_10, Danno_10, Dongwon_10, Dooby_10, Douggie_10, EdElric_10, Eightball_10, Ekko14_10, Elspeth_10, Erin_10, Gabbspett_10, Gardevoir_10, Gillker_10, Godfather_10, GoldenBlanche_10, Goobery_10, HarperAnne_11, Hernandez44_10, Horacetta_10, Hulk_10, JRok_10, Jahseh_10, JaimeB_10, Jannah_10, Jerky_10, JoBros_10, JooneeDee_10, Josuke_10, Kaijohn_10, KayPaulus_10, Kevanna_10, KillerTomato_10, Kojax4_10, KyriosFaba_10, LaviMo_10, Leafy_10, LemonPepper_10, LionelHutz_10, Livingwater_10, Loca_10, Lola20_10, Lunatic_10, Luxx_10, Majesty_10, ManAs_10, Maneater_10, MasterPitts_10, McShie_10, MelBee03_10, Miaurora_10, Minima_10, MirimarMandM_10, MrGreen_10, Namsahir_10, NeumannU_10, Niffler_10, Nobel_10, Noelani_10, Oaklynn_10, Octopus_10, Otwor_10, Owens_10, PaoPu_10, Picnic_10, PoRanda_10, Pondwater_10, Publix_10, Puddles3_10, PuffyCat_10, Quaker_10, Rhogar_10, Rhysand_10, RoscoWindex_10, Sage7_10, SantasSleigh_10, Sara_10, Scamander_10, Scrunchy_10, SeaWolves_10, Sippinontea_10, Slentz_10, Slizam_10, Snuffles_11, Stem_10, TeddyBoy_10, TimoTea_10, TinyTruffula_10, TomBrady12_10, Trireme_10, Upsilon_10, Vanisius_10, VitulaEligans_10, Witch_10, Wolfpack_10, Yami_10, Yasuo_10, YertPhresh_10, Yubaba_10,

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

-

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

- Efeko_11,

Summary by start number:

Start 4:

- Found in 128 of 129 (99.2%) of genes in pham
- Manual Annotations of this start: 122 of 123
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alucard_10 (EE), Anseraureola_10 (EE), Aries55_10 (EE), Astro16_10 (EE), Avvas_10 (EE), Azizam_10 (EE), Aztec_10 (EE), Baine_10 (EE), BarBear_10 (EE), Belthelas_10 (EE), BinkBonk_10 (EE), Bintii_10 (EE), Biscayne_10 (EE), Bodhi17_10 (EE), BoomRoasted_10 (EE), Bradley2_10 (EE), Bri160_10 (EE), BrokMonster_10 (EE), Bullzi2019_10 (EE), Burgy_10 (EE), BurtonThePup_10 (EE), Cayde6_10 (EE), Cazares_10 (EE), Charbie_10 (EE), Chatham_10 (EE), Cheesecake_10 (EE), Ciel_10 (EE), Clownery_10 (EE), Concrete_10 (EE), DaftyDuck_10 (EE), Danimal_10 (EE), Danno_10 (EE), Dongwon_10 (EE), Dooby_10 (EE), Douggie_10 (EE), EdElric_10 (EE), Eightball_10 (EE), Ekko14_10 (EE), Elspeth_10 (EE), Erin_10 (EE), Gabbspett_10 (EE), Gardevoir_10 (EE), Gillker_10 (EE), Godfather_10 (EE), GoldenBlanche_10 (EE), Goobery_10 (EE), HarperAnne_11 (EE), Hernandez44_10 (EE), Horacetta_10 (EE), Hulk_10 (EE), JRok_10 (EE), Jahseh_10 (EE), JaimeB_10 (EE), Jannah_10 (EE), Jerky_10 (EE), JoBros_10 (EE), JooneeDee_10 (EE), Josuke_10 (EE), Kaijohn_10 (EE), KayPaulus_10 (EE), Kevanna_10 (EE), KillerTomato_10 (EE), Kojax4_10 (EE), KyriosFaba_10 (EE), LaviMo_10 (EE), Leafy_10 (EE), LemonPepper_10 (EE), LionelHutz_10 (EE), Livingwater_10 (EE),

Loca_10 (EE), Lola20_10 (EE), Lunatic_10 (EE), Luxx_10 (EE), Majesty_10 (EE), ManAs_10 (EE), Maneater_10 (EE), MasterPitts_10 (EE), McShie_10 (EE), MelBee03_10 (EE), Miaurora_10 (EE), Minima_10 (EE), MirimarMandM_10 (EE), MrGreen_10 (EE), Namsahir_10 (EE), NeumannU_10 (EE), Niffler_10 (EE), Nobel_10 (EE), Noelani_10 (EE), Oaklynn_10 (EE), Octopus_10 (EE), Otwor_10 (EE), Owens_10 (EE), PaoPu_10 (EE), Picnic_10 (EE), PoRanda_10 (EE), Pondwater_10 (EE), Publix_10 (EE), Puddles3_10 (EE), PuffyCat_10 (EE), Quaker_10 (EE), Rhogar_10 (EE), Rhysand_10 (EE), RoscoWindex_10 (EE), Sage7_10 (EE), SantasSleigh_10 (EE), Sara_10 (EE), Scamander_10 (EE), Scrunchy_10 (EE), SeaWolves_10 (EE), Sippinontea_10 (EE), Slentz_10 (EE), Slizam_10 (EE), Snuffles_11 (EE), Stem_10 (EE), TeddyBoy_10 (EE), TimoTea_10 (EE), TinyTruffula_10 (EE), TomBrady12_10 (EE), Trireme_10 (EE), Upsilon_10 (EE), Vanisius_10 (EE), VitulaEligans_10 (EE), Witch_10 (EE), Wolfpack_10 (EE), Yami_10 (EE), Yasuo_10 (EE), YertPhresh_10 (EE), Yubaba_10 (EE),

Start 5:

- Found in 1 of 129 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 123
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Efeko_11 (EE),

Summary by clusters:

There is one cluster represented in this pham: EE

Info for manual annotations of cluster EE:

- Start number 4 was manually annotated 122 times for cluster EE.
- Start number 5 was manually annotated 1 time for cluster EE.

Gene Information:

Gene: Alucard_10 Start: 6987, Stop: 7307, Start Num: 4

Candidate Starts for Alucard_10:

(Start: 4 @6987 has 122 MA's), (6, 7038), (7, 7080), (8, 7125), (9, 7128), (12, 7188),

Gene: Anseraureola_10 Start: 7010, Stop: 7330, Start Num: 4

Candidate Starts for Anseraureola_10:

(Start: 4 @7010 has 122 MA's), (7, 7103), (8, 7148), (9, 7151), (12, 7211),

Gene: Aries55_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for Aries55_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Astro16_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for Astro16_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Avvas_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for Avvas_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Azizam_10 Start: 6986, Stop: 7303, Start Num: 4

Candidate Starts for Azizam_10:

(Start: 4 @6986 has 122 MA's), (7, 7088), (8, 7133), (9, 7136), (12, 7196),

Gene: Aztec_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Aztec_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Baine_10 Start: 6983, Stop: 7303, Start Num: 4

Candidate Starts for Baine_10:

(Start: 4 @6983 has 122 MA's), (7, 7076), (8, 7121), (9, 7124), (12, 7184),

Gene: BarBear_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for BarBear_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Belthelas_10 Start: 7037, Stop: 7357, Start Num: 4

Candidate Starts for Belthelas_10:

(Start: 4 @7037 has 122 MA's), (7, 7130), (8, 7175), (9, 7178), (12, 7238),

Gene: BinkBonk_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for BinkBonk_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Bintii_10 Start: 7019, Stop: 7339, Start Num: 4

Candidate Starts for Bintii_10:

(2, 6902), (3, 6935), (Start: 4 @7019 has 122 MA's), (7, 7118), (8, 7163), (9, 7166), (12, 7226),

Gene: Biscayne_10 Start: 7046, Stop: 7375, Start Num: 4

Candidate Starts for Biscayne_10:

(Start: 4 @7046 has 122 MA's), (7, 7148), (8, 7193), (9, 7196), (12, 7256),

Gene: Bodhi17_10 Start: 6980, Stop: 7300, Start Num: 4

Candidate Starts for Bodhi17_10:

(Start: 4 @6980 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: BoomRoasted_10 Start: 7034, Stop: 7354, Start Num: 4

Candidate Starts for BoomRoasted_10:

(Start: 4 @7034 has 122 MA's), (7, 7127), (8, 7172), (9, 7175), (12, 7235),

Gene: Bradley2_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Bradley2_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Bri160_10 Start: 7034, Stop: 7354, Start Num: 4

Candidate Starts for Bri160_10:

(Start: 4 @7034 has 122 MA's), (7, 7127), (8, 7172), (9, 7175), (12, 7235),

Gene: BrokMonster_10 Start: 6986, Stop: 7297, Start Num: 4

Candidate Starts for BrokMonster_10:

(Start: 4 @6986 has 122 MA's), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Bullzi2019_10 Start: 7007, Stop: 7327, Start Num: 4

Candidate Starts for Bullzi2019_10:
(2, 6890), (3, 6923), (Start: 4 @7007 has 122 MA's), (7, 7106), (8, 7151), (9, 7154), (12, 7214),

Gene: Burgy_10 Start: 6998, Stop: 7318, Start Num: 4
Candidate Starts for Burgy_10:
(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: BurtonThePup_10 Start: 6998, Stop: 7312, Start Num: 4
Candidate Starts for BurtonThePup_10:
(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Cayde6_10 Start: 6983, Stop: 7303, Start Num: 4
Candidate Starts for Cayde6_10:
(Start: 4 @6983 has 122 MA's), (7, 7076), (8, 7121), (9, 7124), (12, 7184),

Gene: Cazares_10 Start: 6977, Stop: 7297, Start Num: 4
Candidate Starts for Cazares_10:
(2, 6860), (3, 6893), (Start: 4 @6977 has 122 MA's), (7, 7076), (8, 7121), (9, 7124), (12, 7184),

Gene: Charbie_10 Start: 6974, Stop: 7294, Start Num: 4
Candidate Starts for Charbie_10:
(Start: 4 @6974 has 122 MA's), (6, 7025), (7, 7067), (8, 7112), (9, 7115), (12, 7175),

Gene: Chatham_10 Start: 6986, Stop: 7306, Start Num: 4
Candidate Starts for Chatham_10:
(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Cheesecake_10 Start: 6998, Stop: 7318, Start Num: 4
Candidate Starts for Cheesecake_10:
(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Ciel_10 Start: 6998, Stop: 7312, Start Num: 4
Candidate Starts for Ciel_10:
(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Clownery_10 Start: 7094, Stop: 7414, Start Num: 4
Candidate Starts for Clownery_10:
(2, 6977), (3, 7010), (Start: 4 @7094 has 122 MA's), (7, 7193), (8, 7238), (9, 7241), (12, 7301),

Gene: Concrete_10 Start: 7034, Stop: 7354, Start Num: 4
Candidate Starts for Concrete_10:
(Start: 4 @7034 has 122 MA's), (7, 7127), (8, 7172), (9, 7175), (12, 7235),

Gene: DaftyDuck_10 Start: 6998, Stop: 7312, Start Num: 4
Candidate Starts for DaftyDuck_10:
(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Danimal_10 Start: 6986, Stop: 7306, Start Num: 4
Candidate Starts for Danimal_10:
(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Danno_10 Start: 6998, Stop: 7318, Start Num: 4
Candidate Starts for Danno_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Dongwon_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Dongwon_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Dooby_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Dooby_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Douggie_10 Start: 6980, Stop: 7300, Start Num: 4

Candidate Starts for Douggie_10:

(Start: 4 @6980 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: EdElric_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for EdElric_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Efeko_11 Start: 6885, Stop: 7172, Start Num: 5

Candidate Starts for Efeko_11:

(Start: 5 @6885 has 1 MA's), (8, 7011), (9, 7014), (10, 7062), (11, 7068), (12, 7074), (13, 7161),

Gene: Eightball_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for Eightball_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Ekko14_10 Start: 6974, Stop: 7294, Start Num: 4

Candidate Starts for Ekko14_10:

(2, 6857), (3, 6890), (Start: 4 @6974 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Elspeth_10 Start: 6974, Stop: 7294, Start Num: 4

Candidate Starts for Elspeth_10:

(2, 6857), (3, 6890), (Start: 4 @6974 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Erin_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Erin_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Gabbspett_10 Start: 7091, Stop: 7408, Start Num: 4

Candidate Starts for Gabbspett_10:

(Start: 4 @7091 has 122 MA's), (7, 7187), (8, 7232), (9, 7235), (12, 7295),

Gene: Gardevoir_10 Start: 6987, Stop: 7340, Start Num: 4

Candidate Starts for Gardevoir_10:

(Start: 4 @6987 has 122 MA's), (6, 7038), (7, 7080), (8, 7125), (9, 7128), (12, 7188),

Gene: Gillker_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Gillker_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Godfather_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for Godfather_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: GoldenBlanche_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for GoldenBlanche_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Goobery_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for Goobery_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: HarperAnne_11 Start: 6974, Stop: 7294, Start Num: 4

Candidate Starts for HarperAnne_11:

(2, 6857), (3, 6890), (Start: 4 @6974 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Hernandez44_10 Start: 7091, Stop: 7408, Start Num: 4

Candidate Starts for Hernandez44_10:

(Start: 4 @7091 has 122 MA's), (7, 7187), (8, 7232), (9, 7235), (12, 7295),

Gene: Horacetta_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Horacetta_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Hulk_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for Hulk_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: JRok_10 Start: 6983, Stop: 7300, Start Num: 4

Candidate Starts for JRok_10:

(Start: 4 @6983 has 122 MA's), (7, 7085), (8, 7130), (9, 7133), (12, 7193),

Gene: Jahseh_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Jahseh_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: JaimeB_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for JaimeB_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Jannah_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Jannah_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Jerky_10 Start: 7070, Stop: 7393, Start Num: 4

Candidate Starts for Jerky_10:

(Start: 4 @7070 has 122 MA's), (7, 7166), (8, 7211), (9, 7214), (12, 7274),

Gene: JoBros_10 Start: 6987, Stop: 7307, Start Num: 4

Candidate Starts for JoBros_10:

(Start: 4 @6987 has 122 MA's), (6, 7038), (7, 7080), (8, 7125), (9, 7128), (12, 7188),

Gene: JooneeDee_10 Start: 7019, Stop: 7339, Start Num: 4

Candidate Starts for JooneeDee_10:

(2, 6902), (3, 6935), (Start: 4 @7019 has 122 MA's), (7, 7118), (8, 7163), (9, 7166), (12, 7226),

Gene: Josuke_10 Start: 6998, Stop: 7318, Start Num: 4
Candidate Starts for Josuke_10:
(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Kaijohn_10 Start: 6989, Stop: 7312, Start Num: 4
Candidate Starts for Kaijohn_10:
(Start: 4 @6989 has 122 MA's), (7, 7088), (8, 7133), (9, 7136), (12, 7196),

Gene: KayPaulus_10 Start: 6980, Stop: 7300, Start Num: 4
Candidate Starts for KayPaulus_10:
(Start: 4 @6980 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Kevanna_10 Start: 6980, Stop: 7300, Start Num: 4
Candidate Starts for Kevanna_10:
(Start: 4 @6980 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: KillerTomato_10 Start: 7034, Stop: 7354, Start Num: 4
Candidate Starts for KillerTomato_10:
(Start: 4 @7034 has 122 MA's), (7, 7127), (8, 7172), (9, 7175), (12, 7235),

Gene: Kojax4_10 Start: 6998, Stop: 7318, Start Num: 4
Candidate Starts for Kojax4_10:
(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: KyriosFaba_10 Start: 6986, Stop: 7306, Start Num: 4
Candidate Starts for KyriosFaba_10:
(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: LaviMo_10 Start: 6998, Stop: 7318, Start Num: 4
Candidate Starts for LaviMo_10:
(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Leafy_10 Start: 7004, Stop: 7324, Start Num: 4
Candidate Starts for Leafy_10:
(Start: 4 @7004 has 122 MA's), (7, 7097), (8, 7142), (9, 7145), (12, 7205),

Gene: LemonPepper_10 Start: 6986, Stop: 7306, Start Num: 4
Candidate Starts for LemonPepper_10:
(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: LionelHutz_10 Start: 6998, Stop: 7312, Start Num: 4
Candidate Starts for LionelHutz_10:
(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Livingwater_10 Start: 6980, Stop: 7300, Start Num: 4
Candidate Starts for Livingwater_10:
(Start: 4 @6980 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Loca_10 Start: 7007, Stop: 7327, Start Num: 4
Candidate Starts for Loca_10:
(Start: 4 @7007 has 122 MA's), (7, 7100), (8, 7145), (9, 7148), (12, 7208),

Gene: Lola20_10 Start: 6983, Stop: 7303, Start Num: 4

Candidate Starts for Lola20_10:

(Start: 4 @6983 has 122 MA's), (7, 7076), (8, 7121), (9, 7124), (12, 7184),

Gene: Lunatic_10 Start: 6977, Stop: 7297, Start Num: 4

Candidate Starts for Lunatic_10:

(2, 6860), (3, 6893), (Start: 4 @6977 has 122 MA's), (7, 7076), (8, 7121), (9, 7124), (12, 7184),

Gene: Luxx_10 Start: 7010, Stop: 7330, Start Num: 4

Candidate Starts for Luxx_10:

(Start: 4 @7010 has 122 MA's), (6, 7061), (7, 7103), (8, 7148), (9, 7151), (12, 7211),

Gene: Majesty_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for Majesty_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: ManAs_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for ManAs_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Maneater_10 Start: 6974, Stop: 7294, Start Num: 4

Candidate Starts for Maneater_10:

(Start: 4 @6974 has 122 MA's), (6, 7025), (7, 7067), (8, 7112), (9, 7115), (12, 7175),

Gene: MasterPitts_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for MasterPitts_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: McShie_10 Start: 6986, Stop: 7297, Start Num: 4

Candidate Starts for McShie_10:

(Start: 4 @6986 has 122 MA's), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: MelBee03_10 Start: 6980, Stop: 7300, Start Num: 4

Candidate Starts for MelBee03_10:

(Start: 4 @6980 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Miaurora_10 Start: 7094, Stop: 7414, Start Num: 4

Candidate Starts for Miaurora_10:

(2, 6977), (3, 7010), (Start: 4 @7094 has 122 MA's), (7, 7193), (8, 7238), (9, 7241), (12, 7301),

Gene: Minima_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Minima_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: MirimarMandM_10 Start: 7061, Stop: 7381, Start Num: 4

Candidate Starts for MirimarMandM_10:

(1, 6893), (2, 6944), (3, 6977), (Start: 4 @7061 has 122 MA's), (7, 7160), (8, 7205), (9, 7208), (12, 7268),

Gene: MrGreen_10 Start: 7001, Stop: 7321, Start Num: 4

Candidate Starts for MrGreen_10:

(Start: 4 @7001 has 122 MA's), (7, 7094), (8, 7139), (9, 7142), (12, 7202),

Gene: Namsahir_10 Start: 7049, Stop: 7369, Start Num: 4

Candidate Starts for Namsahir_10:

(2, 6932), (3, 6965), (Start: 4 @7049 has 122 MA's), (7, 7148), (8, 7193), (9, 7196), (12, 7256),

Gene: NeumannU_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for NeumannU_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Niffler_10 Start: 7067, Stop: 7387, Start Num: 4

Candidate Starts for Niffler_10:

(2, 6950), (3, 6983), (Start: 4 @7067 has 122 MA's), (7, 7166), (8, 7211), (9, 7214), (12, 7274),

Gene: Nobel_10 Start: 7094, Stop: 7414, Start Num: 4

Candidate Starts for Nobel_10:

(2, 6977), (3, 7010), (Start: 4 @7094 has 122 MA's), (7, 7193), (8, 7238), (9, 7241), (12, 7301),

Gene: Noelani_10 Start: 6971, Stop: 7291, Start Num: 4

Candidate Starts for Noelani_10:

(Start: 4 @6971 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Oaklynn_10 Start: 6986, Stop: 7303, Start Num: 4

Candidate Starts for Oaklynn_10:

(Start: 4 @6986 has 122 MA's), (7, 7088), (8, 7133), (9, 7136), (12, 7196),

Gene: Octopus_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Octopus_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Otwor_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for Otwor_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Owens_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for Owens_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: PaoPu_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for PaoPu_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Picnic_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Picnic_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: PoRanda_10 Start: 7061, Stop: 7381, Start Num: 4

Candidate Starts for PoRanda_10:

(2, 6944), (3, 6977), (Start: 4 @7061 has 122 MA's), (7, 7160), (8, 7205), (9, 7208), (12, 7268),

Gene: Pondwater_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Pondwater_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Publix_10 Start: 7049, Stop: 7369, Start Num: 4

Candidate Starts for Publix_10:

(2, 6932), (3, 6965), (Start: 4 @7049 has 122 MA's), (7, 7148), (8, 7193), (9, 7196), (12, 7256),

Gene: Puddles3_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Puddles3_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: PuffyCat_10 Start: 7019, Stop: 7339, Start Num: 4

Candidate Starts for PuffyCat_10:

(2, 6902), (3, 6935), (Start: 4 @7019 has 122 MA's), (7, 7118), (8, 7163), (9, 7166), (12, 7226),

Gene: Quaker_10 Start: 6980, Stop: 7300, Start Num: 4

Candidate Starts for Quaker_10:

(Start: 4 @6980 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Rhogar_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for Rhogar_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Rhysand_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for Rhysand_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: RoscoWindex_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for RoscoWindex_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Sage7_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for Sage7_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: SantasSleigh_10 Start: 7022, Stop: 7342, Start Num: 4

Candidate Starts for SantasSleigh_10:

(Start: 4 @7022 has 122 MA's), (6, 7073), (7, 7115), (8, 7160), (9, 7163), (12, 7223),

Gene: Sara_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for Sara_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Scamander_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for Scamander_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Scrunchy_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for Scrunchy_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: SeaWolves_10 Start: 6986, Stop: 7306, Start Num: 4

Candidate Starts for SeaWolves_10:

(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Sippinontea_10 Start: 6980, Stop: 7300, Start Num: 4

Candidate Starts for Sippinontea_10:

(Start: 4 @6980 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Slentz_10 Start: 6998, Stop: 7312, Start Num: 4

Candidate Starts for Slentz_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: Slizam_10 Start: 7025, Stop: 7345, Start Num: 4

Candidate Starts for Slizam_10:

(2, 6908), (3, 6941), (Start: 4 @7025 has 122 MA's), (7, 7124), (8, 7169), (9, 7172), (12, 7232),

Gene: Snuffles_11 Start: 7196, Stop: 7516, Start Num: 4

Candidate Starts for Snuffles_11:

(2, 7079), (3, 7112), (Start: 4 @7196 has 122 MA's), (7, 7295), (8, 7340), (9, 7343), (12, 7403),

Gene: Stem_10 Start: 7025, Stop: 7345, Start Num: 4

Candidate Starts for Stem_10:

(2, 6908), (3, 6941), (Start: 4 @7025 has 122 MA's), (7, 7124), (8, 7169), (9, 7172), (12, 7232),

Gene: TeddyBoy_10 Start: 6999, Stop: 7313, Start Num: 4

Candidate Starts for TeddyBoy_10:

(Start: 4 @6999 has 122 MA's), (6, 7050), (7, 7092), (8, 7137), (9, 7140), (12, 7200),

Gene: TimoTea_10 Start: 6974, Stop: 7294, Start Num: 4

Candidate Starts for TimoTea_10:

(Start: 4 @6974 has 122 MA's), (6, 7025), (7, 7067), (8, 7112), (9, 7115), (12, 7175),

Gene: TinyTruffula_10 Start: 7094, Stop: 7414, Start Num: 4

Candidate Starts for TinyTruffula_10:

(2, 6977), (3, 7010), (Start: 4 @7094 has 122 MA's), (7, 7193), (8, 7238), (9, 7241), (12, 7301),

Gene: TomBrady12_10 Start: 7025, Stop: 7345, Start Num: 4

Candidate Starts for TomBrady12_10:

(2, 6908), (3, 6941), (Start: 4 @7025 has 122 MA's), (7, 7124), (8, 7169), (9, 7172), (12, 7232),

Gene: Trireme_10 Start: 7094, Stop: 7414, Start Num: 4

Candidate Starts for Trireme_10:

(2, 6977), (3, 7010), (Start: 4 @7094 has 122 MA's), (7, 7193), (8, 7238), (9, 7241), (12, 7301),

Gene: Upsilon_10 Start: 7061, Stop: 7381, Start Num: 4

Candidate Starts for Upsilon_10:

(2, 6944), (3, 6977), (Start: 4 @7061 has 122 MA's), (7, 7160), (8, 7205), (9, 7208), (12, 7268),

Gene: Vanisius_10 Start: 6998, Stop: 7318, Start Num: 4

Candidate Starts for Vanisius_10:

(Start: 4 @6998 has 122 MA's), (6, 7049), (7, 7091), (8, 7136), (9, 7139), (12, 7199),

Gene: VitulaEligans_10 Start: 7070, Stop: 7402, Start Num: 4

Candidate Starts for VitulaEligans_10:

(Start: 4 @7070 has 122 MA's), (7, 7166), (8, 7211), (9, 7214), (12, 7274),

Gene: Witch_10 Start: 6987, Stop: 7307, Start Num: 4

Candidate Starts for Witch_10:

(Start: 4 @6987 has 122 MA's), (6, 7038), (7, 7080), (8, 7125), (9, 7128), (12, 7188),

Gene: Wolfpack_10 Start: 6980, Stop: 7300, Start Num: 4
Candidate Starts for Wolfpack_10:
(Start: 4 @6980 has 122 MA's), (7, 7073), (8, 7118), (9, 7121), (12, 7181),

Gene: Yami_10 Start: 6977, Stop: 7297, Start Num: 4
Candidate Starts for Yami_10:
(2, 6860), (3, 6893), (Start: 4 @6977 has 122 MA's), (7, 7076), (8, 7121), (9, 7124), (12, 7184),

Gene: Yasuo_10 Start: 6983, Stop: 7303, Start Num: 4
Candidate Starts for Yasuo_10:
(Start: 4 @6983 has 122 MA's), (6, 7034), (7, 7076), (8, 7121), (9, 7124), (12, 7184),

Gene: YertPhresh_10 Start: 6986, Stop: 7306, Start Num: 4
Candidate Starts for YertPhresh_10:
(Start: 4 @6986 has 122 MA's), (6, 7037), (7, 7079), (8, 7124), (9, 7127), (12, 7187),

Gene: Yubaba_10 Start: 6987, Stop: 7340, Start Num: 4
Candidate Starts for Yubaba_10:
(Start: 4 @6987 has 122 MA's), (6, 7038), (7, 7080), (8, 7125), (9, 7128), (12, 7188),