

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 154538 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154538 has 142 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Phasih_67, Byougenkin_71
- Track 2 : Strokeseat_63, Hlubikazi_63, Mandlovu_63
- Track 3 : Whatsapiecost_67, Melissauren88_65, Wee_73, Scottish_66, Ovechkin_67, DotProduct_62, Nimbo_61, Hegedechwinu_69, Gandalph_72, KingMidas_67, Akhila_58, Ms6_64, Seagreen_66, Filuzino_66, IbOuu_70, Fruitloop_64, Shauna1_65, Deb65_62, DLane_63, StAnnes_67, Rialto_73, Empress_66, Quico_75, Geralt_62, Taj_73
- Track 4 : Ochi17_76, Llama_77, Jinglebell_77, AlpineSix_77, Bubbles123_68, MadMen_70, Seabastian_78, OfUltron_78
- Track 5 : DaddyRickover_69, Sassafras_68, JoeyJr_68, PHappiness_68, Inventum_65, RedBird_68, Daenerys_67, Dorothy_68, Kingsley_68, RitaG_68
- Track 6 : Kenuha5_71, GigiOuiOui_68, Totinger_72, Madiba_76, Tweety_73
- Track 7 : QuickMath_71, Blarby_80, Soul22_76, Kimberlium_72, Zapner_81, Jabbawokkie_82
- Track 8 : Juice456_69, JalFarm20_81, KristaRAM_71
- Track 9 : Alexphander_74, Drago_68, DirtMcgirt_70, UncleRicky_70, Demsculpinboyz_83, Leozinho_72, Martik_74, Enby_72, Maravista_74, Lorde_71
- Track 10 : BodEinwohner17_68, DeadP_74, Florinda_78, Girafales_75, MilanaBonita_57, OldBen_65, Phanphagia_63
- Track 11 : Donkeykong_71
- Track 12 : ByChance_66, ShowerHandel_74
- Track 13 : SimranZ1_71, Radiance_69, Karhdo_69
- Track 14 : DRBy19_76, Zizzle_75, Jarcob_72, BobaPhett_75, Clifton_65, Saal_72, LastJedi_64, Philus_75, Gorge_74, OlympiaSaint_72, Mattes_74
- Track 15 : Mozy_79
- Track 16 : SiSi_67
- Track 17 : Burwell21_69
- Track 18 : Stap_67
- Track 19 : Hamulus_66, Ardmore_58
- Track 20 : Veteran_65
- Track 21 : Whouxphf_69
- Track 22 : SG4_66
- Track 23 : MisterCuddles_69, Girr_69, Krakatau_67, Ruby_67
- Track 24 : Wachhund_71, Avani_79
- Track 25 : ArcusAngelus_77, Flathead_70, Chevrolet_82, ThetaBob_76
- Track 26 : IrishSherpFalk_73, WillSterrel_73
- Track 27 : Sabbb_72

- Track 28 : DillTech15_72
- Track 29 : Byougenkin_66, Bobi_70, Batiatus_64
- Track 30 : XFactor_68
- Track 31 : SwagPiggett_76
- Track 32 : Marker_79
- Track 33 : Llij_67
- Track 34 : Dante_68
- Track 35 : Zerg_71
- Track 36 : Poenanya_70, Leperchaun_65, Polka14_71
- Track 37 : Bipolar_71
- Track 38 : SuperGrey_74
- Track 39 : Lizziana_77
- Track 40 : Ogopogo_76
- Track 41 : lbhubesi_70
- Track 42 : ShroomBoi_73
- Track 43 : Yoshi_86
- Track 44 : Renaud18_82
- Track 45 : Cornie_68
- Track 46 : Xula_56, QueenHazel_57

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

The start number called the most often in the published annotations is 25, it was called in 107 of the 131 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Akhila_58, Alexphander_74, AlpineSix_77, ArcusAngelus_77, Avani_79, Blarby_80, BobaPhett_75, Bubbles123_68, Burwell21_69, ByChance_66, Byougenkin_71, Chevrolet_82, Clifton_65, DLane_63, DRBy19_76, DaddyRickover_69, Daenerys_67, Deb65_62, Demsculpinboyz_83, DillTech15_72, DirtMcgirt_70, Donkeykong_71, Dorothy_68, DotProduct_62, Drago_68, Empress_66, Enby_72, Filuzino_66, Flathead_70, Fruitloop_64, Gandalph_72, Geralt_62, GigiOuiOui_68, Girr_69, Gorge_74, Hegedechwinu_69, Hlubikazi_63, lbOuu_70, Inventum_65, IrishSherpFalk_73, Jabbawokkie_82, JalFarm20_81, Jarcob_72, Jinglebell_77, JoeyJr_68, Juice456_69, Karhdo_69, Kenuha5_71, Kimberlium_72, KingMidas_67, Kingsley_68, Krakatau_67, KristaRAM_71, LastJedi_64, Leozinho_72, Llama_77, Lorde_71, MadMen_70, Madiba_76, Mandlovu_63, Maravista_74, Marker_79, Martik_74, Mattes_74, Melissauren88_65, MisterCuddles_69, Mozy_79, Ms6_64, Nimbo_61, Ochi17_76, OfUltron_78, Ogopogo_76, OlympiaSaint_72, Ovechkin_67, PHappiness_68, Phasih_67, Philus_75, QueenHazel_57, QuickMath_71, Quico_75, Radiance_69, RedBird_68, Renaud18_82, Rialto_73, RitaG_68, Ruby_67, Saal_72, Sabbb_72, Sassafras_68, Scottish_66, Sebastian_78, Seagreen_66, Shauna1_65, ShowerHandel_74, ShroomBoi_73, SiSi_67, SimranZ1_71, Soul22_76, StAnnes_67, Stap_67, Strokeseat_63, Taj_73, ThetaBob_76, Totinger_72, Tweety_73, UncleRicky_70, Veteran_65, Wachhund_71, Wee_73, Whatsapiecost_67, Whouxphf_69, WillSterrel_73, XFactor_68, Xula_56, Yoshi_86, Zapner_81, Zizzle_75,

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

- BodEinwohner17_68, DeadP_74, Florinda_78, Girafales_75, Ibhubesi_70, Leperchaun_65, Lizziana_77, Llij_67, MilanaBonita_57, OldBen_65, Phanphagia_63, Poenanya_70, Polka14_71, SG4_66, SuperGrey_74, SwagPigglett_76, Zerg_71,

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

- Ardmore_58, Batiatus_64, Bipolar_71, Bobi_70, Byougenkin_66, Cornie_68, Dante_68, Hamulus_66,

Summary by start number:

Start 24:

- Found in 1 of 142 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 131
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dante_68 (F1),

Start 25:

- Found in 134 of 142 (94.4%) of genes in pham
- Manual Annotations of this start: 107 of 131
- Called 87.3% of time when present
- Phage (with cluster) where this start called: Akhila_58 (F1), Alexphander_74 (F1), AlpineSix_77 (F1), ArcusAngelus_77 (F1), Avani_79 (F2), Blarby_80 (F), BobaPhett_75 (F1), Bubbles123_68 (F1), Burwell21_69 (F1), ByChance_66 (F1), Byougenkin_71 (F1), Chevrolet_82 (F1), Clifton_65 (F1), DLane_63 (F1), DRBy19_76 (F1), DaddyRickover_69 (F1), Daenerys_67 (F1), Deb65_62 (F1), Demsculpinboyz_83 (F2), DillTech15_72 (F1), DirtMcgirt_70 (F1), Donkeykong_71 (F1), Dorothy_68 (F1), DotProduct_62 (F1), Drago_68 (F1), Empress_66 (F1), Enby_72 (F1), Filuzino_66 (F1), Flathead_70 (F1), Fruitloop_64 (F1), Gandolph_72 (F1), Geralt_62 (F1), GigiOuiOui_68 (F1), Girr_69 (F1), Gorge_74 (F1), Hegedechwinu_69 (F1), Hlubikazi_63 (F1), IbOuu_70 (F1), Inventum_65 (F1), IrishSherpFalk_73 (F1), Jabbawokkie_82 (F2), JalFarm20_81 (F1), Jarcob_72 (F1), Jinglebell_77 (F1), JoeyJr_68 (F1), Juice456_69 (F1), Karhdo_69 (F1), Kenuha5_71 (F1), Kimberlium_72 (F1), KingMidas_67 (F1), Kingsley_68 (F1), Krakatau_67 (F1), KristaRAM_71 (F1), LastJedi_64 (F1), Leozinho_72 (F1), Llama_77 (F1), Lorde_71 (F1), MadMen_70 (F1), Madiba_76 (F1), Mandlovu_63 (F1), Maravista_74 (F1), Marker_79 (F1), Martik_74 (F1), Mattes_74 (F1), Melissauren88_65 (F1), MisterCuddles_69 (F1), Mozy_79 (F1), Ms6_64 (F1), Nimbo_61 (F1), Ochi17_76 (F1), OfUltron_78 (F1), Ogopogo_76 (F1), OlympiaSaint_72 (F1), Ovechkin_67 (F1), PHappiness_68 (F1), Phasih_67 (F1), Philus_75 (F1), QueenHazel_57 (I1), QuickMath_71 (F1), Quico_75 (F1), Radiance_69 (F1), RedBird_68 (F1), Renaud18_82 (F4), Rialto_73 (F1), RitaG_68 (F1), Ruby_67 (F1), Saal_72 (F1), Sabbb_72 (F1), Sassafras_68 (F1), Scottish_66 (F1), Seabastian_78 (F1), Seagreen_66 (F1), Shauna1_65 (F1), ShowerHandel_74 (F1), ShroomBoi_73 (F1), SiSi_67 (F1), SimranZ1_71 (F1), Soul22_76 (F2), StAnnes_67 (F1), Stap_67 (F1), Strokeseat_63 (F1), Taj_73 (F1), ThetaBob_76 (F4), Totinger_72 (F1), Tweety_73 (F1), UncleRicky_70 (F1), Veteran_65 (F1), Wachhund_71 (F1), Wee_73 (F1), Whatsapiecost_67 (F1), Whouxphf_69 (F1), WillSterrel_73 (F1), XFactor_68 (F1), Xula_56 (I1), Yoshi_86 (F2), Zapner_81 (F2), Zizzle_75 (F1),

Start 26:

- Found in 6 of 142 (4.2%) of genes in pham
- Manual Annotations of this start: 5 of 131
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Ardmore_58 (F1), Batiatus_64 (F1), Bipolar_71 (F1), Bobi_70 (F1), Byougenkin_66 (F1), Hamulus_66 (F1),

Start 27:

- Found in 41 of 142 (28.9%) of genes in pham
- Manual Annotations of this start: 1 of 131
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Lizziana_77 (F1),

Start 28:

- Found in 135 of 142 (95.1%) of genes in pham
- Manual Annotations of this start: 16 of 131
- Called 11.9% of time when present
- Phage (with cluster) where this start called: BodEinwohner17_68 (F1), DeadP_74 (F1), Florinda_78 (F1), Girafales_75 (F1), Ibhubesi_70 (F1), Leperchaun_65 (F1), Llij_67 (F1), MilanaBonita_57 (F1), OldBen_65 (F1), Phanphagia_63 (F1), Poenanya_70 (F1), Polka14_71 (F1), SG4_66 (F1), SuperGrey_74 (F1), SwagPigglett_76 (F1), Zerg_71 (F1),

Start 29:

- Found in 1 of 142 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 131
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cornie_68 (F5),

Summary by clusters:

There are 6 clusters represented in this pham: F1, F2, F4, F5, F, I1,

Info for manual annotations of cluster F1:

- Start number 24 was manually annotated 1 time for cluster F1.
- Start number 25 was manually annotated 97 times for cluster F1.
- Start number 26 was manually annotated 5 times for cluster F1.
- Start number 27 was manually annotated 1 time for cluster F1.
- Start number 28 was manually annotated 16 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 25 was manually annotated 6 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 25 was manually annotated 2 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 29 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster I1:

- Start number 25 was manually annotated 2 times for cluster I1.

Gene Information:

Gene: Akhila_58 Start: 38471, Stop: 38626, Start Num: 25

Candidate Starts for Akhila_58:

(10, 38333), (Start: 25 @38471 has 107 MA's), (Start: 28 @38486 has 16 MA's), (31, 38534), (33, 38555), (35, 38576),

Gene: Alexphander_74 Start: 46512, Stop: 46661, Start Num: 25

Candidate Starts for Alexphander_74:

(Start: 25 @46512 has 107 MA's), (Start: 27 @46521 has 1 MA's), (Start: 28 @46524 has 16 MA's), (32, 46578), (33, 46593),

Gene: AlpineSix_77 Start: 47155, Stop: 47310, Start Num: 25

Candidate Starts for AlpineSix_77:

(10, 47023), (Start: 25 @47155 has 107 MA's), (Start: 28 @47167 has 16 MA's), (32, 47221), (33, 47236),

Gene: ArcusAngelus_77 Start: 47419, Stop: 47568, Start Num: 25

Candidate Starts for ArcusAngelus_77:

(Start: 25 @47419 has 107 MA's), (Start: 28 @47431 has 16 MA's), (31, 47479), (33, 47500), (35, 47521),

Gene: Ardmore_58 Start: 40412, Stop: 40564, Start Num: 26

Candidate Starts for Ardmore_58:

(Start: 26 @40412 has 5 MA's), (Start: 28 @40424 has 16 MA's), (31, 40472), (33, 40493), (35, 40514),

Gene: Avani_79 Start: 44144, Stop: 44293, Start Num: 25

Candidate Starts for Avani_79:

(Start: 25 @44144 has 107 MA's), (Start: 27 @44156 has 1 MA's), (Start: 28 @44159 has 16 MA's), (32, 44213), (33, 44228),

Gene: Batiatus_64 Start: 42288, Stop: 42440, Start Num: 26

Candidate Starts for Batiatus_64:

(Start: 26 @42288 has 5 MA's), (31, 42348), (33, 42369), (35, 42390),

Gene: Bipolar_71 Start: 44507, Stop: 44659, Start Num: 26

Candidate Starts for Bipolar_71:

(23, 44495), (Start: 26 @44507 has 5 MA's), (Start: 28 @44519 has 16 MA's), (31, 44567), (33, 44588), (35, 44609),

Gene: Blarby_80 Start: 44685, Stop: 44834, Start Num: 25

Candidate Starts for Blarby_80:

(10, 44547), (21, 44646), (Start: 25 @44685 has 107 MA's), (Start: 28 @44700 has 16 MA's), (31, 44748), (33, 44769), (35, 44790),

Gene: BobaPhett_75 Start: 48236, Stop: 48385, Start Num: 25

Candidate Starts for BobaPhett_75:

(Start: 25 @48236 has 107 MA's), (Start: 27 @48248 has 1 MA's), (Start: 28 @48251 has 16 MA's), (31, 48299), (33, 48320), (35, 48341),

Gene: Bobi_70 Start: 43891, Stop: 44043, Start Num: 26

Candidate Starts for Bobi_70:

(Start: 26 @43891 has 5 MA's), (31, 43951), (33, 43972), (35, 43993),

Gene: BodEinwohner17_68 Start: 43061, Stop: 43201, Start Num: 28

Candidate Starts for BodEinwohner17_68:

(10, 42908), (Start: 25 @43046 has 107 MA's), (Start: 28 @43061 has 16 MA's), (31, 43109), (33, 43130), (35, 43151),

Gene: Bubbles123_68 Start: 45742, Stop: 45888, Start Num: 25

Candidate Starts for Bubbles123_68:

(10, 45610), (Start: 25 @45742 has 107 MA's), (Start: 28 @45754 has 16 MA's), (32, 45808), (33, 45823),

Gene: Burwell21_69 Start: 45551, Stop: 45697, Start Num: 25

Candidate Starts for Burwell21_69:

(10, 45419), (22, 45539), (Start: 25 @45551 has 107 MA's), (Start: 28 @45563 has 16 MA's), (32, 45617), (33, 45632),

Gene: ByChance_66 Start: 42651, Stop: 42800, Start Num: 25

Candidate Starts for ByChance_66:

(10, 42519), (Start: 25 @42651 has 107 MA's), (Start: 27 @42660 has 1 MA's), (Start: 28 @42663 has 16 MA's), (31, 42711), (32, 42717), (33, 42732),

Gene: Byougenkin_71 Start: 43611, Stop: 43757, Start Num: 25

Candidate Starts for Byougenkin_71:

(10, 43479), (21, 43578), (Start: 25 @43611 has 107 MA's), (Start: 28 @43623 has 16 MA's), (32, 43677), (33, 43692),

Gene: Byougenkin_66 Start: 42551, Stop: 42703, Start Num: 26

Candidate Starts for Byougenkin_66:

(Start: 26 @42551 has 5 MA's), (31, 42611), (33, 42632), (35, 42653),

Gene: Chevrolet_82 Start: 47420, Stop: 47569, Start Num: 25

Candidate Starts for Chevrolet_82:

(Start: 25 @47420 has 107 MA's), (Start: 28 @47432 has 16 MA's), (31, 47480), (33, 47501), (35, 47522),

Gene: Clifton_65 Start: 44067, Stop: 44216, Start Num: 25

Candidate Starts for Clifton_65:

(Start: 25 @44067 has 107 MA's), (Start: 27 @44079 has 1 MA's), (Start: 28 @44082 has 16 MA's), (31, 44130), (33, 44151), (35, 44172),

Gene: Cornie_68 Start: 44347, Stop: 44481, Start Num: 29

Candidate Starts for Cornie_68:

(Start: 29 @44347 has 1 MA's), (30, 44368), (31, 44392), (33, 44413), (35, 44434),

Gene: DLane_63 Start: 42015, Stop: 42170, Start Num: 25

Candidate Starts for DLane_63:

(10, 41877), (Start: 25 @42015 has 107 MA's), (Start: 28 @42030 has 16 MA's), (31, 42078), (33, 42099), (35, 42120),

Gene: DRBy19_76 Start: 47796, Stop: 47945, Start Num: 25

Candidate Starts for DRBy19_76:

(Start: 25 @47796 has 107 MA's), (Start: 27 @47808 has 1 MA's), (Start: 28 @47811 has 16 MA's), (31, 47859), (33, 47880), (35, 47901),

Gene: DaddyRickover_69 Start: 43982, Stop: 44137, Start Num: 25
Candidate Starts for DaddyRickover_69:
(Start: 25 @43982 has 107 MA's), (Start: 28 @43997 has 16 MA's), (31, 44045), (33, 44066), (35, 44087),

Gene: Daenerys_67 Start: 44101, Stop: 44256, Start Num: 25
Candidate Starts for Daenerys_67:
(Start: 25 @44101 has 107 MA's), (Start: 28 @44116 has 16 MA's), (31, 44164), (33, 44185), (35, 44206),

Gene: Dante_68 Start: 43688, Stop: 43840, Start Num: 24
Candidate Starts for Dante_68:
(Start: 24 @43688 has 1 MA's), (Start: 28 @43700 has 16 MA's), (31, 43748), (33, 43769), (35, 43790),

Gene: DeadP_74 Start: 45444, Stop: 45578, Start Num: 28
Candidate Starts for DeadP_74:
(10, 45291), (Start: 25 @45429 has 107 MA's), (Start: 28 @45444 has 16 MA's), (31, 45492), (33, 45513), (35, 45534),

Gene: Deb65_62 Start: 41821, Stop: 41976, Start Num: 25
Candidate Starts for Deb65_62:
(10, 41683), (Start: 25 @41821 has 107 MA's), (Start: 28 @41836 has 16 MA's), (31, 41884), (33, 41905), (35, 41926),

Gene: Demsculpinboyz_83 Start: 44211, Stop: 44369, Start Num: 25
Candidate Starts for Demsculpinboyz_83:
(Start: 25 @44211 has 107 MA's), (Start: 27 @44223 has 1 MA's), (Start: 28 @44226 has 16 MA's), (32, 44280), (33, 44295),

Gene: DillTech15_72 Start: 44035, Stop: 44178, Start Num: 25
Candidate Starts for DillTech15_72:
(Start: 25 @44035 has 107 MA's), (Start: 28 @44047 has 16 MA's), (32, 44101), (33, 44116),

Gene: DirtMcgirt_70 Start: 42990, Stop: 43136, Start Num: 25
Candidate Starts for DirtMcgirt_70:
(Start: 25 @42990 has 107 MA's), (Start: 27 @42999 has 1 MA's), (Start: 28 @43002 has 16 MA's), (32, 43056), (33, 43071),

Gene: Donkeykong_71 Start: 45836, Stop: 45991, Start Num: 25
Candidate Starts for Donkeykong_71:
(Start: 25 @45836 has 107 MA's), (31, 45899), (33, 45920), (35, 45941),

Gene: Dorothy_68 Start: 43156, Stop: 43311, Start Num: 25
Candidate Starts for Dorothy_68:
(Start: 25 @43156 has 107 MA's), (Start: 28 @43171 has 16 MA's), (31, 43219), (33, 43240), (35, 43261),

Gene: DotProduct_62 Start: 41324, Stop: 41479, Start Num: 25
Candidate Starts for DotProduct_62:
(10, 41186), (Start: 25 @41324 has 107 MA's), (Start: 28 @41339 has 16 MA's), (31, 41387), (33, 41408), (35, 41429),

Gene: Drago_68 Start: 42993, Stop: 43139, Start Num: 25
Candidate Starts for Drago_68:
(Start: 25 @42993 has 107 MA's), (Start: 27 @43002 has 1 MA's), (Start: 28 @43005 has 16 MA's),
(32, 43059), (33, 43074),

Gene: Empress_66 Start: 43265, Stop: 43420, Start Num: 25
Candidate Starts for Empress_66:
(10, 43127), (Start: 25 @43265 has 107 MA's), (Start: 28 @43280 has 16 MA's), (31, 43328), (33,
43349), (35, 43370),

Gene: Enby_72 Start: 43269, Stop: 43415, Start Num: 25
Candidate Starts for Enby_72:
(Start: 25 @43269 has 107 MA's), (Start: 27 @43278 has 1 MA's), (Start: 28 @43281 has 16 MA's),
(32, 43335), (33, 43350),

Gene: Filuzino_66 Start: 42350, Stop: 42505, Start Num: 25
Candidate Starts for Filuzino_66:
(10, 42212), (Start: 25 @42350 has 107 MA's), (Start: 28 @42365 has 16 MA's), (31, 42413), (33,
42434), (35, 42455),

Gene: Flathead_70 Start: 44683, Stop: 44823, Start Num: 25
Candidate Starts for Flathead_70:
(Start: 25 @44683 has 107 MA's), (Start: 28 @44695 has 16 MA's), (31, 44743), (33, 44764), (35,
44785),

Gene: Florinda_78 Start: 44511, Stop: 44651, Start Num: 28
Candidate Starts for Florinda_78:
(10, 44358), (Start: 25 @44496 has 107 MA's), (Start: 28 @44511 has 16 MA's), (31, 44559), (33,
44580), (35, 44601),

Gene: Fruitloop_64 Start: 43656, Stop: 43811, Start Num: 25
Candidate Starts for Fruitloop_64:
(10, 43518), (Start: 25 @43656 has 107 MA's), (Start: 28 @43671 has 16 MA's), (31, 43719), (33,
43740), (35, 43761),

Gene: Gandalph_72 Start: 43639, Stop: 43785, Start Num: 25
Candidate Starts for Gandalph_72:
(10, 43501), (Start: 25 @43639 has 107 MA's), (Start: 28 @43654 has 16 MA's), (31, 43702), (33,
43723), (35, 43744),

Gene: Geralt_62 Start: 41820, Stop: 41975, Start Num: 25
Candidate Starts for Geralt_62:
(10, 41682), (Start: 25 @41820 has 107 MA's), (Start: 28 @41835 has 16 MA's), (31, 41883), (33,
41904), (35, 41925),

Gene: GigiOuiOui_68 Start: 45285, Stop: 45428, Start Num: 25
Candidate Starts for GigiOuiOui_68:
(Start: 25 @45285 has 107 MA's), (Start: 27 @45294 has 1 MA's), (Start: 28 @45297 has 16 MA's),
(32, 45351), (33, 45366),

Gene: Girafales_75 Start: 44302, Stop: 44442, Start Num: 28
Candidate Starts for Girafales_75:

(10, 44149), (Start: 25 @44287 has 107 MA's), (Start: 28 @44302 has 16 MA's), (31, 44350), (33, 44371), (35, 44392),

Gene: Girr_69 Start: 45990, Stop: 46139, Start Num: 25

Candidate Starts for Girr_69:

(Start: 25 @45990 has 107 MA's), (Start: 28 @46002 has 16 MA's), (32, 46056), (33, 46071),

Gene: Gorge_74 Start: 47006, Stop: 47155, Start Num: 25

Candidate Starts for Gorge_74:

(Start: 25 @47006 has 107 MA's), (Start: 27 @47018 has 1 MA's), (Start: 28 @47021 has 16 MA's), (31, 47069), (33, 47090), (35, 47111),

Gene: Hamulus_66 Start: 42697, Stop: 42849, Start Num: 26

Candidate Starts for Hamulus_66:

(Start: 26 @42697 has 5 MA's), (Start: 28 @42709 has 16 MA's), (31, 42757), (33, 42778), (35, 42799),

Gene: Hegedechwinu_69 Start: 42429, Stop: 42584, Start Num: 25

Candidate Starts for Hegedechwinu_69:

(10, 42291), (Start: 25 @42429 has 107 MA's), (Start: 28 @42444 has 16 MA's), (31, 42492), (33, 42513), (35, 42534),

Gene: Hlubikazi_63 Start: 40435, Stop: 40590, Start Num: 25

Candidate Starts for Hlubikazi_63:

(1, 39982), (2, 40000), (3, 40036), (4, 40042), (5, 40060), (6, 40156), (8, 40234), (13, 40309), (Start: 25 @40435 has 107 MA's), (Start: 28 @40450 has 16 MA's), (31, 40498), (33, 40519), (35, 40540),

Gene: lbOuu_70 Start: 43870, Stop: 44019, Start Num: 25

Candidate Starts for lbOuu_70:

(10, 43732), (Start: 25 @43870 has 107 MA's), (Start: 28 @43885 has 16 MA's), (31, 43933), (33, 43954), (35, 43975),

Gene: lbhubesi_70 Start: 43411, Stop: 43545, Start Num: 28

Candidate Starts for lbhubesi_70:

(10, 43267), (Start: 25 @43399 has 107 MA's), (Start: 28 @43411 has 16 MA's), (32, 43465), (33, 43480),

Gene: Inventum_65 Start: 43354, Stop: 43509, Start Num: 25

Candidate Starts for Inventum_65:

(Start: 25 @43354 has 107 MA's), (Start: 28 @43369 has 16 MA's), (31, 43417), (33, 43438), (35, 43459),

Gene: IrishSherpFalk_73 Start: 46468, Stop: 46617, Start Num: 25

Candidate Starts for IrishSherpFalk_73:

(Start: 25 @46468 has 107 MA's), (Start: 27 @46480 has 1 MA's), (Start: 28 @46483 has 16 MA's), (31, 46531), (33, 46552), (34, 46558), (35, 46573),

Gene: Jabbawokkie_82 Start: 44605, Stop: 44754, Start Num: 25

Candidate Starts for Jabbawokkie_82:

(10, 44467), (21, 44566), (Start: 25 @44605 has 107 MA's), (Start: 28 @44620 has 16 MA's), (31, 44668), (33, 44689), (35, 44710),

Gene: JalFarm20_81 Start: 47224, Stop: 47373, Start Num: 25

Candidate Starts for JalFarm20_81:

(Start: 25 @47224 has 107 MA's), (Start: 28 @47239 has 16 MA's), (31, 47287), (33, 47308), (35, 47329),

Gene: Jarcob_72 Start: 46728, Stop: 46877, Start Num: 25

Candidate Starts for Jarcob_72:

(Start: 25 @46728 has 107 MA's), (Start: 27 @46740 has 1 MA's), (Start: 28 @46743 has 16 MA's), (31, 46791), (33, 46812), (35, 46833),

Gene: Jinglebell_77 Start: 47154, Stop: 47309, Start Num: 25

Candidate Starts for Jinglebell_77:

(10, 47022), (Start: 25 @47154 has 107 MA's), (Start: 28 @47166 has 16 MA's), (32, 47220), (33, 47235),

Gene: JoeyJr_68 Start: 44269, Stop: 44424, Start Num: 25

Candidate Starts for JoeyJr_68:

(Start: 25 @44269 has 107 MA's), (Start: 28 @44284 has 16 MA's), (31, 44332), (33, 44353), (35, 44374),

Gene: Juice456_69 Start: 45180, Stop: 45329, Start Num: 25

Candidate Starts for Juice456_69:

(Start: 25 @45180 has 107 MA's), (Start: 28 @45195 has 16 MA's), (31, 45243), (33, 45264), (35, 45285),

Gene: Karhdo_69 Start: 44419, Stop: 44571, Start Num: 25

Candidate Starts for Karhdo_69:

(Start: 25 @44419 has 107 MA's), (Start: 27 @44431 has 1 MA's), (Start: 28 @44434 has 16 MA's), (32, 44488), (33, 44503), (36, 44560),

Gene: Kenuha5_71 Start: 47003, Stop: 47146, Start Num: 25

Candidate Starts for Kenuha5_71:

(Start: 25 @47003 has 107 MA's), (Start: 27 @47012 has 1 MA's), (Start: 28 @47015 has 16 MA's), (32, 47069), (33, 47084),

Gene: Kimberlium_72 Start: 44776, Stop: 44925, Start Num: 25

Candidate Starts for Kimberlium_72:

(10, 44638), (21, 44737), (Start: 25 @44776 has 107 MA's), (Start: 28 @44791 has 16 MA's), (31, 44839), (33, 44860), (35, 44881),

Gene: KingMidas_67 Start: 43681, Stop: 43836, Start Num: 25

Candidate Starts for KingMidas_67:

(10, 43543), (Start: 25 @43681 has 107 MA's), (Start: 28 @43696 has 16 MA's), (31, 43744), (33, 43765), (35, 43786),

Gene: Kingsley_68 Start: 45553, Stop: 45708, Start Num: 25

Candidate Starts for Kingsley_68:

(Start: 25 @45553 has 107 MA's), (Start: 28 @45568 has 16 MA's), (31, 45616), (33, 45637), (35, 45658),

Gene: Krakatau_67 Start: 42370, Stop: 42519, Start Num: 25

Candidate Starts for Krakatau_67:

(Start: 25 @42370 has 107 MA's), (Start: 28 @42382 has 16 MA's), (32, 42436), (33, 42451),

Gene: KristaRAM_71 Start: 45549, Stop: 45698, Start Num: 25

Candidate Starts for KristaRAM_71:

(Start: 25 @45549 has 107 MA's), (Start: 28 @45564 has 16 MA's), (31, 45612), (33, 45633), (35, 45654),

Gene: LastJedi_64 Start: 44110, Stop: 44259, Start Num: 25

Candidate Starts for LastJedi_64:

(Start: 25 @44110 has 107 MA's), (Start: 27 @44122 has 1 MA's), (Start: 28 @44125 has 16 MA's), (31, 44173), (33, 44194), (35, 44215),

Gene: Leozinho_72 Start: 43788, Stop: 43934, Start Num: 25

Candidate Starts for Leozinho_72:

(Start: 25 @43788 has 107 MA's), (Start: 27 @43797 has 1 MA's), (Start: 28 @43800 has 16 MA's), (32, 43854), (33, 43869),

Gene: Leperchaun_65 Start: 43514, Stop: 43654, Start Num: 28

Candidate Starts for Leperchaun_65:

(Start: 25 @43499 has 107 MA's), (Start: 28 @43514 has 16 MA's), (31, 43562), (33, 43583), (35, 43604),

Gene: Lizziana_77 Start: 47466, Stop: 47603, Start Num: 27

Candidate Starts for Lizziana_77:

(Start: 25 @47457 has 107 MA's), (Start: 27 @47466 has 1 MA's), (Start: 28 @47469 has 16 MA's), (32, 47523), (33, 47538),

Gene: Llama_77 Start: 47009, Stop: 47164, Start Num: 25

Candidate Starts for Llama_77:

(10, 46877), (Start: 25 @47009 has 107 MA's), (Start: 28 @47021 has 16 MA's), (32, 47075), (33, 47090),

Gene: Llij_67 Start: 43159, Stop: 43293, Start Num: 28

Candidate Starts for Llij_67:

(Start: 25 @43147 has 107 MA's), (Start: 27 @43156 has 1 MA's), (Start: 28 @43159 has 16 MA's), (32, 43213), (33, 43228),

Gene: Lorde_71 Start: 42434, Stop: 42580, Start Num: 25

Candidate Starts for Lorde_71:

(Start: 25 @42434 has 107 MA's), (Start: 27 @42443 has 1 MA's), (Start: 28 @42446 has 16 MA's), (32, 42500), (33, 42515),

Gene: MadMen_70 Start: 44751, Stop: 44891, Start Num: 25

Candidate Starts for MadMen_70:

(10, 44619), (Start: 25 @44751 has 107 MA's), (Start: 28 @44763 has 16 MA's), (32, 44817), (33, 44832),

Gene: Madiba_76 Start: 47567, Stop: 47716, Start Num: 25

Candidate Starts for Madiba_76:

(Start: 25 @47567 has 107 MA's), (Start: 27 @47576 has 1 MA's), (Start: 28 @47579 has 16 MA's), (32, 47633), (33, 47648),

Gene: Mandlovu_63 Start: 40377, Stop: 40532, Start Num: 25

Candidate Starts for Mandlovu_63:

(1, 39924), (2, 39942), (3, 39978), (4, 39984), (5, 40002), (6, 40098), (8, 40176), (13, 40251), (Start: 25 @40377 has 107 MA's), (Start: 28 @40392 has 16 MA's), (31, 40440), (33, 40461), (35, 40482),

Gene: Maravista_74 Start: 48467, Stop: 48613, Start Num: 25

Candidate Starts for Maravista_74:

(Start: 25 @48467 has 107 MA's), (Start: 27 @48476 has 1 MA's), (Start: 28 @48479 has 16 MA's), (32, 48533), (33, 48548),

Gene: Marker_79 Start: 45397, Stop: 45555, Start Num: 25

Candidate Starts for Marker_79:

(Start: 25 @45397 has 107 MA's), (Start: 28 @45409 has 16 MA's), (32, 45463), (33, 45478), (37, 45541),

Gene: Martik_74 Start: 47948, Stop: 48094, Start Num: 25

Candidate Starts for Martik_74:

(Start: 25 @47948 has 107 MA's), (Start: 27 @47957 has 1 MA's), (Start: 28 @47960 has 16 MA's), (32, 48014), (33, 48029),

Gene: Mattes_74 Start: 47131, Stop: 47280, Start Num: 25

Candidate Starts for Mattes_74:

(Start: 25 @47131 has 107 MA's), (Start: 27 @47143 has 1 MA's), (Start: 28 @47146 has 16 MA's), (31, 47194), (33, 47215), (35, 47236),

Gene: Melissauren88_65 Start: 41894, Stop: 42049, Start Num: 25

Candidate Starts for Melissauren88_65:

(10, 41756), (Start: 25 @41894 has 107 MA's), (Start: 28 @41909 has 16 MA's), (31, 41957), (33, 41978), (35, 41999),

Gene: MilanaBonita_57 Start: 38486, Stop: 38626, Start Num: 28

Candidate Starts for MilanaBonita_57:

(10, 38333), (Start: 25 @38471 has 107 MA's), (Start: 28 @38486 has 16 MA's), (31, 38534), (33, 38555), (35, 38576),

Gene: MisterCuddles_69 Start: 45990, Stop: 46139, Start Num: 25

Candidate Starts for MisterCuddles_69:

(Start: 25 @45990 has 107 MA's), (Start: 28 @46002 has 16 MA's), (32, 46056), (33, 46071),

Gene: Mozy_79 Start: 45595, Stop: 45738, Start Num: 25

Candidate Starts for Mozy_79:

(10, 45457), (18, 45520), (Start: 25 @45595 has 107 MA's), (31, 45658), (33, 45679), (35, 45700),

Gene: Ms6_64 Start: 38259, Stop: 38414, Start Num: 25

Candidate Starts for Ms6_64:

(10, 38121), (Start: 25 @38259 has 107 MA's), (Start: 28 @38274 has 16 MA's), (31, 38322), (33, 38343), (35, 38364),

Gene: Nimbo_61 Start: 41823, Stop: 41978, Start Num: 25

Candidate Starts for Nimbo_61:

(10, 41685), (Start: 25 @41823 has 107 MA's), (Start: 28 @41838 has 16 MA's), (31, 41886), (33, 41907), (35, 41928),

Gene: Ochi17_76 Start: 46605, Stop: 46760, Start Num: 25

Candidate Starts for Ochi17_76:

(10, 46473), (Start: 25 @46605 has 107 MA's), (Start: 28 @46617 has 16 MA's), (32, 46671), (33, 46686),

Gene: OfUltron_78 Start: 47154, Stop: 47309, Start Num: 25

Candidate Starts for OfUltron_78:

(10, 47022), (Start: 25 @47154 has 107 MA's), (Start: 28 @47166 has 16 MA's), (32, 47220), (33, 47235),

Gene: Ogotopogo_76 Start: 44956, Stop: 45102, Start Num: 25

Candidate Starts for Ogotopogo_76:

(13, 44830), (Start: 25 @44956 has 107 MA's), (Start: 27 @44968 has 1 MA's), (Start: 28 @44971 has 16 MA's), (31, 45019), (33, 45040), (35, 45061),

Gene: OldBen_65 Start: 43231, Stop: 43371, Start Num: 28

Candidate Starts for OldBen_65:

(10, 43078), (Start: 25 @43216 has 107 MA's), (Start: 28 @43231 has 16 MA's), (31, 43279), (33, 43300), (35, 43321),

Gene: OlympiaSaint_72 Start: 46073, Stop: 46222, Start Num: 25

Candidate Starts for OlympiaSaint_72:

(Start: 25 @46073 has 107 MA's), (Start: 27 @46085 has 1 MA's), (Start: 28 @46088 has 16 MA's), (31, 46136), (33, 46157), (35, 46178),

Gene: Ovechkin_67 Start: 43210, Stop: 43365, Start Num: 25

Candidate Starts for Ovechkin_67:

(10, 43072), (Start: 25 @43210 has 107 MA's), (Start: 28 @43225 has 16 MA's), (31, 43273), (33, 43294), (35, 43315),

Gene: PHappiness_68 Start: 44045, Stop: 44200, Start Num: 25

Candidate Starts for PHappiness_68:

(Start: 25 @44045 has 107 MA's), (Start: 28 @44060 has 16 MA's), (31, 44108), (33, 44129), (35, 44150),

Gene: Phanphagia_63 Start: 42771, Stop: 42911, Start Num: 28

Candidate Starts for Phanphagia_63:

(10, 42618), (Start: 25 @42756 has 107 MA's), (Start: 28 @42771 has 16 MA's), (31, 42819), (33, 42840), (35, 42861),

Gene: Phasih_67 Start: 44273, Stop: 44413, Start Num: 25

Candidate Starts for Phasih_67:

(10, 44141), (21, 44240), (Start: 25 @44273 has 107 MA's), (Start: 28 @44285 has 16 MA's), (32, 44339), (33, 44354),

Gene: Philus_75 Start: 47772, Stop: 47921, Start Num: 25

Candidate Starts for Philus_75:

(Start: 25 @47772 has 107 MA's), (Start: 27 @47784 has 1 MA's), (Start: 28 @47787 has 16 MA's), (31, 47835), (33, 47856), (35, 47877),

Gene: Poenanya_70 Start: 44545, Stop: 44685, Start Num: 28

Candidate Starts for Poenanya_70:

(Start: 25 @44530 has 107 MA's), (Start: 28 @44545 has 16 MA's), (31, 44593), (33, 44614), (35, 44635),

Gene: Polka14_71 Start: 45261, Stop: 45401, Start Num: 28
Candidate Starts for Polka14_71:
(Start: 25 @45246 has 107 MA's), (Start: 28 @45261 has 16 MA's), (31, 45309), (33, 45330), (35, 45351),

Gene: QueenHazel_57 Start: 39547, Stop: 39696, Start Num: 25
Candidate Starts for QueenHazel_57:
(13, 39421), (Start: 25 @39547 has 107 MA's), (Start: 28 @39562 has 16 MA's), (31, 39610), (33, 39631), (35, 39652),

Gene: QuickMath_71 Start: 44999, Stop: 45148, Start Num: 25
Candidate Starts for QuickMath_71:
(10, 44861), (21, 44960), (Start: 25 @44999 has 107 MA's), (Start: 28 @45014 has 16 MA's), (31, 45062), (33, 45083), (35, 45104),

Gene: Quico_75 Start: 44316, Stop: 44471, Start Num: 25
Candidate Starts for Quico_75:
(10, 44178), (Start: 25 @44316 has 107 MA's), (Start: 28 @44331 has 16 MA's), (31, 44379), (33, 44400), (35, 44421),

Gene: Radiance_69 Start: 46419, Stop: 46571, Start Num: 25
Candidate Starts for Radiance_69:
(Start: 25 @46419 has 107 MA's), (Start: 27 @46431 has 1 MA's), (Start: 28 @46434 has 16 MA's), (32, 46488), (33, 46503), (36, 46560),

Gene: RedBird_68 Start: 43035, Stop: 43190, Start Num: 25
Candidate Starts for RedBird_68:
(Start: 25 @43035 has 107 MA's), (Start: 28 @43050 has 16 MA's), (31, 43098), (33, 43119), (35, 43140),

Gene: Renaud18_82 Start: 46991, Stop: 47140, Start Num: 25
Candidate Starts for Renaud18_82:
(10, 46859), (Start: 25 @46991 has 107 MA's), (31, 47051), (33, 47072), (35, 47093),

Gene: Rialto_73 Start: 45931, Stop: 46086, Start Num: 25
Candidate Starts for Rialto_73:
(10, 45793), (Start: 25 @45931 has 107 MA's), (Start: 28 @45946 has 16 MA's), (31, 45994), (33, 46015), (35, 46036),

Gene: RitaG_68 Start: 44390, Stop: 44545, Start Num: 25
Candidate Starts for RitaG_68:
(Start: 25 @44390 has 107 MA's), (Start: 28 @44405 has 16 MA's), (31, 44453), (33, 44474), (35, 44495),

Gene: Ruby_67 Start: 45991, Stop: 46140, Start Num: 25
Candidate Starts for Ruby_67:
(Start: 25 @45991 has 107 MA's), (Start: 28 @46003 has 16 MA's), (32, 46057), (33, 46072),

Gene: SG4_66 Start: 42817, Stop: 42957, Start Num: 28
Candidate Starts for SG4_66:
(Start: 25 @42805 has 107 MA's), (Start: 27 @42814 has 1 MA's), (Start: 28 @42817 has 16 MA's), (32, 42871), (33, 42886),

Gene: Saal_72 Start: 46825, Stop: 46974, Start Num: 25

Candidate Starts for Saal_72:

(Start: 25 @46825 has 107 MA's), (Start: 27 @46837 has 1 MA's), (Start: 28 @46840 has 16 MA's), (31, 46888), (33, 46909), (35, 46930),

Gene: Sabbb_72 Start: 43583, Stop: 43732, Start Num: 25

Candidate Starts for Sabbb_72:

(7, 43340), (11, 43454), (13, 43463), (Start: 25 @43583 has 107 MA's), (Start: 28 @43595 has 16 MA's), (32, 43649), (33, 43664), (36, 43721),

Gene: Sassafras_68 Start: 43353, Stop: 43508, Start Num: 25

Candidate Starts for Sassafras_68:

(Start: 25 @43353 has 107 MA's), (Start: 28 @43368 has 16 MA's), (31, 43416), (33, 43437), (35, 43458),

Gene: Scottish_66 Start: 42936, Stop: 43091, Start Num: 25

Candidate Starts for Scottish_66:

(10, 42798), (Start: 25 @42936 has 107 MA's), (Start: 28 @42951 has 16 MA's), (31, 42999), (33, 43020), (35, 43041),

Gene: Seabastian_78 Start: 47155, Stop: 47310, Start Num: 25

Candidate Starts for Seabastian_78:

(10, 47023), (Start: 25 @47155 has 107 MA's), (Start: 28 @47167 has 16 MA's), (32, 47221), (33, 47236),

Gene: Seagreen_66 Start: 42125, Stop: 42280, Start Num: 25

Candidate Starts for Seagreen_66:

(10, 41987), (Start: 25 @42125 has 107 MA's), (Start: 28 @42140 has 16 MA's), (31, 42188), (33, 42209), (35, 42230),

Gene: Shauna1_65 Start: 42665, Stop: 42820, Start Num: 25

Candidate Starts for Shauna1_65:

(10, 42527), (Start: 25 @42665 has 107 MA's), (Start: 28 @42680 has 16 MA's), (31, 42728), (33, 42749), (35, 42770),

Gene: ShowerHandel_74 Start: 46591, Stop: 46740, Start Num: 25

Candidate Starts for ShowerHandel_74:

(10, 46459), (Start: 25 @46591 has 107 MA's), (Start: 27 @46600 has 1 MA's), (Start: 28 @46603 has 16 MA's), (31, 46651), (32, 46657), (33, 46672),

Gene: ShroomBoi_73 Start: 46320, Stop: 46463, Start Num: 25

Candidate Starts for ShroomBoi_73:

(Start: 25 @46320 has 107 MA's), (Start: 28 @46335 has 16 MA's), (31, 46383), (33, 46404), (35, 46425),

Gene: SiSi_67 Start: 44560, Stop: 44715, Start Num: 25

Candidate Starts for SiSi_67:

(15, 44446), (Start: 25 @44560 has 107 MA's), (Start: 28 @44575 has 16 MA's), (31, 44623), (33, 44644), (35, 44665),

Gene: SimranZ1_71 Start: 45018, Stop: 45170, Start Num: 25

Candidate Starts for SimranZ1_71:

(Start: 25 @45018 has 107 MA's), (Start: 27 @45030 has 1 MA's), (Start: 28 @45033 has 16 MA's), (32, 45087), (33, 45102), (36, 45159),

Gene: Soul22_76 Start: 44557, Stop: 44706, Start Num: 25

Candidate Starts for Soul22_76:

(10, 44419), (21, 44518), (Start: 25 @44557 has 107 MA's), (Start: 28 @44572 has 16 MA's), (31, 44620), (33, 44641), (35, 44662),

Gene: StAnnes_67 Start: 43879, Stop: 44034, Start Num: 25

Candidate Starts for StAnnes_67:

(10, 43741), (Start: 25 @43879 has 107 MA's), (Start: 28 @43894 has 16 MA's), (31, 43942), (33, 43963), (35, 43984),

Gene: Stap_67 Start: 43236, Stop: 43385, Start Num: 25

Candidate Starts for Stap_67:

(10, 43104), (19, 43170), (22, 43224), (Start: 25 @43236 has 107 MA's), (Start: 28 @43248 has 16 MA's), (32, 43302), (33, 43317),

Gene: Strokeseat_63 Start: 40434, Stop: 40589, Start Num: 25

Candidate Starts for Strokeseat_63:

(1, 39981), (2, 39999), (3, 40035), (4, 40041), (5, 40059), (6, 40155), (8, 40233), (13, 40308), (Start: 25 @40434 has 107 MA's), (Start: 28 @40449 has 16 MA's), (31, 40497), (33, 40518), (35, 40539),

Gene: SuperGrey_74 Start: 48498, Stop: 48629, Start Num: 28

Candidate Starts for SuperGrey_74:

(9, 48330), (12, 48342), (16, 48366), (17, 48390), (20, 48414), (Start: 25 @48486 has 107 MA's), (Start: 27 @48495 has 1 MA's), (Start: 28 @48498 has 16 MA's), (32, 48552), (33, 48567),

Gene: SwagPigglett_76 Start: 47881, Stop: 48015, Start Num: 28

Candidate Starts for SwagPigglett_76:

(Start: 25 @47866 has 107 MA's), (Start: 27 @47878 has 1 MA's), (Start: 28 @47881 has 16 MA's), (31, 47929), (33, 47950), (35, 47971),

Gene: Taj_73 Start: 45199, Stop: 45354, Start Num: 25

Candidate Starts for Taj_73:

(10, 45061), (Start: 25 @45199 has 107 MA's), (Start: 28 @45214 has 16 MA's), (31, 45262), (33, 45283), (35, 45304),

Gene: ThetaBob_76 Start: 46222, Stop: 46368, Start Num: 25

Candidate Starts for ThetaBob_76:

(Start: 25 @46222 has 107 MA's), (Start: 28 @46234 has 16 MA's), (31, 46282), (33, 46303), (35, 46324),

Gene: Totinger_72 Start: 44700, Stop: 44843, Start Num: 25

Candidate Starts for Totinger_72:

(Start: 25 @44700 has 107 MA's), (Start: 27 @44709 has 1 MA's), (Start: 28 @44712 has 16 MA's), (32, 44766), (33, 44781),

Gene: Tweety_73 Start: 47076, Stop: 47234, Start Num: 25

Candidate Starts for Tweety_73:

(Start: 25 @47076 has 107 MA's), (Start: 27 @47085 has 1 MA's), (Start: 28 @47088 has 16 MA's), (32, 47142), (33, 47157),

Gene: UncleRicky_70 Start: 44490, Stop: 44636, Start Num: 25
Candidate Starts for UncleRicky_70:
(Start: 25 @44490 has 107 MA's), (Start: 27 @44499 has 1 MA's), (Start: 28 @44502 has 16 MA's),
(32, 44556), (33, 44571),

Gene: Veteran_65 Start: 44909, Stop: 45058, Start Num: 25
Candidate Starts for Veteran_65:
(14, 44792), (21, 44870), (Start: 25 @44909 has 107 MA's), (Start: 28 @44924 has 16 MA's), (31,
44972), (33, 44993), (35, 45014),

Gene: Wachhund_71 Start: 44201, Stop: 44362, Start Num: 25
Candidate Starts for Wachhund_71:
(Start: 25 @44201 has 107 MA's), (Start: 27 @44213 has 1 MA's), (Start: 28 @44216 has 16 MA's),
(32, 44270), (33, 44285),

Gene: Wee_73 Start: 45275, Stop: 45430, Start Num: 25
Candidate Starts for Wee_73:
(10, 45137), (Start: 25 @45275 has 107 MA's), (Start: 28 @45290 has 16 MA's), (31, 45338), (33,
45359), (35, 45380),

Gene: Whatsapiecost_67 Start: 41846, Stop: 41989, Start Num: 25
Candidate Starts for Whatsapiecost_67:
(10, 41708), (Start: 25 @41846 has 107 MA's), (Start: 28 @41861 has 16 MA's), (31, 41909), (33,
41930), (35, 41951),

Gene: Whouxphf_69 Start: 45627, Stop: 45773, Start Num: 25
Candidate Starts for Whouxphf_69:
(22, 45615), (Start: 25 @45627 has 107 MA's), (Start: 28 @45639 has 16 MA's), (32, 45693), (33,
45708),

Gene: WillSterrel_73 Start: 46501, Stop: 46650, Start Num: 25
Candidate Starts for WillSterrel_73:
(Start: 25 @46501 has 107 MA's), (Start: 27 @46513 has 1 MA's), (Start: 28 @46516 has 16 MA's),
(31, 46564), (33, 46585), (34, 46591), (35, 46606),

Gene: XFactor_68 Start: 44921, Stop: 45067, Start Num: 25
Candidate Starts for XFactor_68:
(Start: 25 @44921 has 107 MA's), (Start: 28 @44933 has 16 MA's), (31, 44981), (32, 44987), (33,
45002),

Gene: Xula_56 Start: 39168, Stop: 39317, Start Num: 25
Candidate Starts for Xula_56:
(13, 39042), (Start: 25 @39168 has 107 MA's), (Start: 28 @39183 has 16 MA's), (31, 39231), (33,
39252), (35, 39273),

Gene: Yoshi_86 Start: 46688, Stop: 46834, Start Num: 25
Candidate Starts for Yoshi_86:
(Start: 25 @46688 has 107 MA's), (Start: 28 @46700 has 16 MA's), (31, 46748), (32, 46754), (33,
46769),

Gene: Zapner_81 Start: 44699, Stop: 44848, Start Num: 25
Candidate Starts for Zapner_81:

(10, 44561), (21, 44660), (Start: 25 @44699 has 107 MA's), (Start: 28 @44714 has 16 MA's), (31, 44762), (33, 44783), (35, 44804),

Gene: Zerg_71 Start: 45778, Stop: 45912, Start Num: 28

Candidate Starts for Zerg_71:

(14, 45649), (Start: 25 @45766 has 107 MA's), (Start: 28 @45778 has 16 MA's), (32, 45832), (33, 45847),

Gene: Zizzle_75 Start: 47154, Stop: 47303, Start Num: 25

Candidate Starts for Zizzle_75:

(Start: 25 @47154 has 107 MA's), (Start: 27 @47166 has 1 MA's), (Start: 28 @47169 has 16 MA's), (31, 47217), (33, 47238), (35, 47259),