

Pham 215893



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 215893 Report

This analysis was run 02/22/25 on database version 588.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 215893 has 163 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Sejanus_84
- Track 2 : Obliviate_39, Zaheer_44, QuinnAvery_44, Petra_40, Zarbodnamra_42
- Track 3 : UmaThurman_37
- Track 4 : ZAYM_43
- Track 5 : Bunker_39
- Track 6 : Dogfish_34
- Track 7 : MulchSalad_47
- Track 8 : Hamulus_51, Deb65_46, OlympiaSaint_50, BlueCrab_47, Dorothy_47, Gandolph_51, Empress_49, Doomphist_49, Job42_50, Poenanya_49, Harley_52, Cornie_43, Spoonbill_48, Blexus_48, Scottish_49, Leperchaun_43, OwlsT2W_49, Kersh_53, Veteran_47, Daenerys_45, Stap_49, GUmbie_47, PMC_44, Rockne_48, PHappiness_46, Mantra_47, Radiance_50, Boomer_52, Krakatau_48, JoeyJr_46, DaddyRickover_50, RitaG_46, Oksu_54, IbOuu_52, Spikelee_56, Polka14_47, Nimbo_45, Ramsey_51, Pacc40_45, SiSi_49, BodEinwohner17_50, RedBird_47, KingMidas_50, BuzzLyseyear_55
- Track 9 : Cabrinians_51, TDanisky_54, Yorick_49, Madiba_46, Jarcob_50, Seagreen_51, Eradicator_43, Dante_49, Llij_47, Girr_50, LilMoolah_49, Lizziana_56, Leozinho_51, Kimberlium_53, Karhdo_49, Drago_49, QuickMath_52, Emmaloid_51, Starcevich_50, Koella_44, PopTart_45, Avani_58, ShowerHandel_52, Chevrolet_56, Nitzel_45, NormanBulbieJr_50, Maravista_52, Marker_50, DotProduct_46, Martik_50, Priscilla_50, Ibhubesu_49, MadMen_44, Tweety_49, Ruby_48, Royals2015_52, Sabbb_56, Totinger_50, Bubbles123_47, ArcusAngelus_53, ShiLan_49, Nivrat_47, Mahavrat_48, GigiOuiOui_47, MisterCuddles_50, Aubs_49, Slim_51, FreddyB_50, UncleRicky_50, Tootsieroll_53, Eish_50, JalFarm20_59, Crumble_45, MulchExplorer_57, Doug_52, Che8_52, Sparkdehlily_54, Grimmer_61, DirtMcgirt_50, Burwell21_48, LittleShirley_50, Phatniss_49, Plumbus_52, SassyB_45
- Track 10 : Jinglebell_55, Ochi17_53, AlpineSix_55, OfUltron_55, Llama_55, Modragons_54, Seabastian_55
- Track 11 : DocMcStuffins_47, Misha28_46, TootsiePop_46
- Track 12 : RockyHorror_50, Zerg_49
- Track 13 : Pollywog_48
- Track 14 : ChickenDinner_49, Aloeri_49, Awesomesauce_48, Piper2020_48
- Track 15 : Latretium_53

- Track 16 : Frankie_53
- Track 17 : Florinda_62, Quico_59
- Track 18 : Tchotchke_52, Fastidio_51
- Track 19 : Jabbawokkie_63, Zapner_62
- Track 20 : BlueFeather_20
- Track 21 : Julie_40
- Track 22 : MoRicky_22, Smilerella_21
- Track 23 : Webster2_50, Luke_50, LilHazelNut_50, Evanesce_49, Hadrien_50, Kinbote_50, Ubuntu_50, Forge_48, Ein37_50, Amymech_50, Gancho_49, DeepSoil15_50, Amochick_50, Daegal_52
- Track 24 : OBUpride_50

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 120 of the 148 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aloeri_49, AlpineSix_55, ArcusAngelus_53, Aubs_49, Avani_58, Awesomesauce_48, Blexus_48, BlueCrab_47, BodEinwohner17_50, Boomer_52, Bubbles123_47, Burwell21_48, BuzzLyseyear_55, Cabrinians_51, Che8_52, Chevrolet_56, ChickenDinner_49, Cornie_43, Crumble_45, DaddyRickover_50, Daenerys_45, Dante_49, Deb65_46, DirtMcgirt_50, Doomphist_49, Dorothy_47, DotProduct_46, Doug_52, Drago_49, Eish_50, Emmaloid_51, Empress_49, Eradicator_43, Fastidio_51, Florinda_62, Frankie_53, FreddyB_50, GUmbie_47, Gandolph_51, GigiOuiOui_47, Girr_50, Grimmer_61, Hamulus_51, Harley_52, IbOuu_52, Ibhubesi_49, Jabbawokkie_63, JalFarm20_59, Jarcob_50, Jinglebell_55, Job42_50, JoeyJr_46, Karhdo_49, Kersh_53, Kimberlium_53, KingMidas_50, Koella_44, Krakatau_48, Latretium_53, Leozinho_51, Leperchaun_43, LilMoolah_49, LittleShirley_50, Lizziana_56, Llama_55, Llij_47, MadMen_44, Madiba_46, Mahavrat_48, Mantra_47, Maravista_52, Marker_50, Martik_50, MisterCuddles_50, Modragons_54, MulchExplorer_57, MulchSalad_47, Nimbo_45, Nitzel_45, Nivrat_47, NormanBulbieJr_50, Ochi17_53, OfUltron_55, Oksu_54, OlympiaSaint_50, OwlsT2W_49, PHappiness_46, PMC_44, Pacc40_45, Phatniss_49, Piper2020_48, Plumbus_52, Poenanya_49, Polka14_47, Pollywog_48, PopTart_45, Priscilla_50, QuickMath_52, Quico_59, Radiance_50, Ramsey_51, RedBird_47, RitaG_46, Rockne_48, RockyHorror_50, Royals2015_52, Ruby_48, Sabbb_56, SassyB_45, Scottish_49, Sebastian_55, Seagreen_51, ShiLan_49, ShowerHandel_52, SiSi_49, Slim_51, Sparkdehlily_54, Spikelee_56, Spoonbill_48, Stap_49, Starceвич_50, TDanisky_54, Tchotchke_52, Tootsieroll_53, Totinger_50, Tweety_49, UncleRicky_50, Veteran_47, Yorick_49, Zapner_62, Zerg_49,

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

- DocMcStuffins_47, Misha28_46, TootsiePop_46,

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

- Amochick_50, Amymech_50, BlueFeather_20, Bunker_39, Daegal_52, DeepSoil15_50, Dogfish_34, Ein37_50, Evanesce_49, Forge_48, Gancho_49, Hadrien_50, Julie_40, Kinbote_50, LilHazelNut_50, Luke_50, MoRicky_22, OBUpride_50, Obliviate_39, Petra_40, QuinnAvery_44, Sejanus_84, Smilerella_21,

Ubuntu_50, UmaThurman_37, Webster2_50, ZAYM_43, Zaheer_44,
Zarbodnamra_42,

Summary by start number:

Start 11:

- Found in 1 of 163 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 148
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dogfish_34 (DT),

Start 15:

- Found in 1 of 163 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 148
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueFeather_20 (FE),

Start 18:

- Found in 1 of 163 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 148
- Called 100.0% of time when present
- Phage (with cluster) where this start called: UmaThurman_37 (CV),

Start 19:

- Found in 3 of 163 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 148
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Bunker_39 (DB), ZAYM_43 (DB),

Start 21:

- Found in 9 of 163 (5.5%) of genes in pham
- Manual Annotations of this start: 3 of 148
- Called 33.3% of time when present
- Phage (with cluster) where this start called: DocMcStuffins_47 (F1), Misha28_46 (F1), TootsiePop_46 (F1),

Start 22:

- Found in 15 of 163 (9.2%) of genes in pham
- Manual Annotations of this start: 15 of 148
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick_50 (Q), Amymech_50 (Q), Daegal_52 (Q), DeepSoil15_50 (Q), Ein37_50 (Q), Evanesce_49 (Q), Forge_48 (Q), Gancho_49 (Q), Hadrien_50 (Q), Kinbote_50 (Q), LilHazelNut_50 (Q), Luke_50 (Q), OBUpride_50 (Q), Ubuntu_50 (Q), Webster2_50 (Q),

Start 23:

- Found in 4 of 163 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 148
- Called 75.0% of time when present
- Phage (with cluster) where this start called: MoRicky_22 (GH), Sejanus_84 (AD), Smilerella_21 (GH),

Start 24:

- Found in 6 of 163 (3.7%) of genes in pham
- Manual Annotations of this start: 5 of 148
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Julie_40 (FF), Obliviate_39 (CV), Petra_40 (CV), QuinnAvery_44 (FF), Zaheer_44 (FF), Zarbodnamra_42 (CV),

Start 25:

- Found in 134 of 163 (82.2%) of genes in pham
- Manual Annotations of this start: 120 of 148
- Called 97.8% of time when present
- Phage (with cluster) where this start called: Aloeri_49 (F1), AlpineSix_55 (F1), ArcusAngelus_53 (F1), Aubs_49 (F1), Avani_58 (F2), Awesomesauce_48 (F1), Blexus_48 (F1), BlueCrab_47 (F1), BodEinwohner17_50 (F1), Boomer_52 (F1), Bubbles123_47 (F1), Burwell21_48 (F1), BuzzLyseyear_55 (F1), Cabrinians_51 (F1), Che8_52 (F1), Chevrolet_56 (F1), ChickenDinner_49 (F1), Cornie_43 (F5), Crumble_45 (F1), DaddyRickover_50 (F1), Daenerys_45 (F1), Dante_49 (F1), Deb65_46 (F1), DirtMcgirt_50 (F1), Doomphist_49 (F1), Dorothy_47 (F1), DotProduct_46 (F1), Doug_52 (F1), Drago_49 (F1), Eish_50 (F1), Emmaloid_51 (F1), Empress_49 (F1), Eradicator_43 (F1), Fastidio_51 (F1), Florinda_62 (F1), Frankie_53 (F1), FreddyB_50 (F1), GUmbe_47 (F1), Gandolph_51 (F1), GigiOuiOui_47 (F1), Girr_50 (F1), Grimmer_61 (F1), Hamulus_51 (F1), Harley_52 (F1), IbOuu_52 (F1), Ibhubesi_49 (F1), Jabbawokkie_63 (F2), JalFarm20_59 (F1), Jarcob_50 (F1), Jinglebell_55 (F1), Job42_50 (F1), JoeyJr_46 (F1), Karhdo_49 (F1), Kersh_53 (F1), Kimberlium_53 (F1), KingMidas_50 (F1), Koella_44 (F1), Krakatau_48 (F1), Latretium_53 (F1), Leozinho_51 (F1), Leperchaun_43 (F1), LilMoolah_49 (F1), LittleShirley_50 (F1), Lizziana_56 (F1), Llama_55 (F1), Llij_47 (F1), MadMen_44 (F1), Madiba_46 (F1), Mahavrat_48 (F1), Mantra_47 (F1), Maravista_52 (F1), Marker_50 (F1), Martik_50 (F1), MisterCuddles_50 (F1), Modragons_54 (F1), MulchExplorer_57 (F1), MulchSalad_47 (F), Nimbo_45 (F1), Nitzel_45 (F1), Nivrat_47 (F1), NormanBulbieJr_50 (F1), Ochi17_53 (F1), OfUltron_55 (F1), Oksu_54 (F1), OlympiaSaint_50 (F1), OwlsT2W_49 (F1), PHappiness_46 (F1), PMC_44 (F1), Pacc40_45 (F1), Phatniss_49 (F1), Piper2020_48 (F1), Plumbus_52 (F1), Poenanya_49 (F1), Polka14_47 (F1), Pollywog_48 (F1), PopTart_45 (F1), Priscilla_50 (F1), QuickMath_52 (F1), Quico_59 (F1), Radiance_50 (F1), Ramsey_51 (F1), RedBird_47 (F1), RitaG_46 (F1), Rockne_48 (F1), RockyHorror_50 (F1), Royals2015_52 (F1), Ruby_48 (F1), Sabbb_56 (F1), SassyB_45 (F1), Scottish_49 (F1), Seabastian_55 (F1), Seagreen_51 (F1), ShiLan_49 (F1), ShowerHandel_52 (F1), SiSi_49 (F1), Slim_51 (F1), Sparkdehlily_54 (F1), Spikelee_56 (F1), Spoonbill_48 (F1), Stap_49 (F1), Starceвич_50 (F1), TDanisky_54 (F1), Tchotchke_52 (F1), Tootsieroll_53 (F1), Totinger_50 (F1), Tweety_49 (F1), UncleRicky_50 (F1), Veteran_47 (F1), Yorick_49 (F1), Zapner_62 (F2), Zerg_49 (F1),

Summary by clusters:

There are 12 clusters represented in this pham: F1, F2, F5, F, DB, AD, Q, FE, FF, DT, CV, GH,

Info for manual annotations of cluster AD:

- Start number 23 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster CV:

- Start number 18 was manually annotated 1 time for cluster CV.
- Start number 24 was manually annotated 3 times for cluster CV.

Info for manual annotations of cluster DB:

- Start number 19 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DT:

- Start number 11 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster F1:

- Start number 21 was manually annotated 3 times for cluster F1.
- Start number 25 was manually annotated 116 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 25 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F5:

- Start number 25 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster FE:

- Start number 15 was manually annotated 1 time for cluster FE.

Info for manual annotations of cluster FF:

- Start number 24 was manually annotated 2 times for cluster FF.

Info for manual annotations of cluster Q:

- Start number 22 was manually annotated 15 times for cluster Q.

Gene Information:

Gene: Aloeri_49 Start: 35729, Stop: 35926, Start Num: 25

Candidate Starts for Aloeri_49:

(10, 35645), (Start: 21 @35702 has 3 MA's), (Start: 25 @35729 has 120 MA's), (37, 35891),

Gene: AlpineSix_55 Start: 38663, Stop: 38860, Start Num: 25

Candidate Starts for AlpineSix_55:

(Start: 25 @38663 has 120 MA's), (30, 38714), (31, 38726), (34, 38759), (37, 38825),

Gene: Amochick_50 Start: 36955, Stop: 37152, Start Num: 22

Candidate Starts for Amochick_50:

(Start: 22 @36955 has 15 MA's), (28, 37018),

Gene: Amymech_50 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for Amymech_50:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: ArcusAngelus_53 Start: 37779, Stop: 37976, Start Num: 25

Candidate Starts for ArcusAngelus_53:

(Start: 25 @37779 has 120 MA's), (30, 37830), (31, 37842), (34, 37875), (37, 37941),

Gene: Aubs_49 Start: 36346, Stop: 36543, Start Num: 25

Candidate Starts for Aubs_49:

(Start: 25 @36346 has 120 MA's), (30, 36397), (31, 36409), (34, 36442), (37, 36508),

Gene: Avani_58 Start: 36654, Stop: 36851, Start Num: 25

Candidate Starts for Avani_58:

(Start: 25 @36654 has 120 MA's), (30, 36705), (31, 36717), (34, 36750), (37, 36816),

Gene: Awesomesauce_48 Start: 34991, Stop: 35188, Start Num: 25

Candidate Starts for Awesomesauce_48:

(10, 34907), (Start: 21 @34964 has 3 MA's), (Start: 25 @34991 has 120 MA's), (37, 35153),

Gene: Blexus_48 Start: 36433, Stop: 36630, Start Num: 25

Candidate Starts for Blexus_48:

(Start: 25 @36433 has 120 MA's), (30, 36484), (31, 36496), (34, 36529), (37, 36595),

Gene: BlueCrab_47 Start: 36159, Stop: 36356, Start Num: 25

Candidate Starts for BlueCrab_47:

(Start: 25 @36159 has 120 MA's), (30, 36210), (31, 36222), (34, 36255), (37, 36321),

Gene: BlueFeather_20 Start: 14165, Stop: 14407, Start Num: 15

Candidate Starts for BlueFeather_20:

(Start: 15 @14165 has 1 MA's), (17, 14177), (Start: 23 @14195 has 1 MA's),

Gene: BodEinwohner17_50 Start: 36375, Stop: 36572, Start Num: 25

Candidate Starts for BodEinwohner17_50:

(Start: 25 @36375 has 120 MA's), (30, 36426), (31, 36438), (34, 36471), (37, 36537),

Gene: Boomer_52 Start: 37608, Stop: 37805, Start Num: 25

Candidate Starts for Boomer_52:

(Start: 25 @37608 has 120 MA's), (30, 37659), (31, 37671), (34, 37704), (37, 37770),

Gene: Bubbles123_47 Start: 37055, Stop: 37252, Start Num: 25

Candidate Starts for Bubbles123_47:

(Start: 25 @37055 has 120 MA's), (30, 37106), (31, 37118), (34, 37151), (37, 37217),

Gene: Bunker_39 Start: 31881, Stop: 32090, Start Num: 19

Candidate Starts for Bunker_39:

(14, 31854), (Start: 19 @31881 has 1 MA's), (37, 32055),

Gene: Burwell21_48 Start: 36717, Stop: 36914, Start Num: 25

Candidate Starts for Burwell21_48:

(Start: 25 @36717 has 120 MA's), (30, 36768), (31, 36780), (34, 36813), (37, 36879),

Gene: BuzzLyseyear_55 Start: 37985, Stop: 38182, Start Num: 25

Candidate Starts for BuzzLyseyear_55:

(Start: 25 @37985 has 120 MA's), (30, 38036), (31, 38048), (34, 38081), (37, 38147),

Gene: Cabrinians_51 Start: 36795, Stop: 36992, Start Num: 25

Candidate Starts for Cabrinians_51:

(Start: 25 @36795 has 120 MA's), (30, 36846), (31, 36858), (34, 36891), (37, 36957),

Gene: Che8_52 Start: 37604, Stop: 37801, Start Num: 25

Candidate Starts for Che8_52:

(Start: 25 @37604 has 120 MA's), (30, 37655), (31, 37667), (34, 37700), (37, 37766),

Gene: Chevrolet_56 Start: 37780, Stop: 37977, Start Num: 25

Candidate Starts for Chevrolet_56:

(Start: 25 @37780 has 120 MA's), (30, 37831), (31, 37843), (34, 37876), (37, 37942),

Gene: ChickenDinner_49 Start: 35729, Stop: 35926, Start Num: 25

Candidate Starts for ChickenDinner_49:

(10, 35645), (Start: 21 @35702 has 3 MA's), (Start: 25 @35729 has 120 MA's), (37, 35891),

Gene: Cornie_43 Start: 34495, Stop: 34692, Start Num: 25

Candidate Starts for Cornie_43:

(Start: 25 @34495 has 120 MA's), (30, 34546), (31, 34558), (34, 34591), (37, 34657),

Gene: Crumble_45 Start: 32731, Stop: 32928, Start Num: 25

Candidate Starts for Crumble_45:

(Start: 25 @32731 has 120 MA's), (30, 32782), (31, 32794), (34, 32827), (37, 32893),

Gene: DaddyRickover_50 Start: 37291, Stop: 37488, Start Num: 25

Candidate Starts for DaddyRickover_50:

(Start: 25 @37291 has 120 MA's), (30, 37342), (31, 37354), (34, 37387), (37, 37453),

Gene: Daegal_52 Start: 37533, Stop: 37730, Start Num: 22

Candidate Starts for Daegal_52:

(Start: 22 @37533 has 15 MA's), (28, 37596),

Gene: Daenerys_45 Start: 35102, Stop: 35299, Start Num: 25

Candidate Starts for Daenerys_45:

(Start: 25 @35102 has 120 MA's), (30, 35153), (31, 35165), (34, 35198), (37, 35264),

Gene: Dante_49 Start: 36138, Stop: 36335, Start Num: 25

Candidate Starts for Dante_49:

(Start: 25 @36138 has 120 MA's), (30, 36189), (31, 36201), (34, 36234), (37, 36300),

Gene: Deb65_46 Start: 35071, Stop: 35268, Start Num: 25

Candidate Starts for Deb65_46:

(Start: 25 @35071 has 120 MA's), (30, 35122), (31, 35134), (34, 35167), (37, 35233),

Gene: DeepSoil15_50 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for DeepSoil15_50:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: DirtMcgirt_50 Start: 35836, Stop: 36033, Start Num: 25

Candidate Starts for DirtMcgirt_50:

(Start: 25 @35836 has 120 MA's), (30, 35887), (31, 35899), (34, 35932), (37, 35998),

Gene: DocMcStuffins_47 Start: 35702, Stop: 35926, Start Num: 21

Candidate Starts for DocMcStuffins_47:

(10, 35645), (Start: 21 @35702 has 3 MA's), (Start: 25 @35729 has 120 MA's), (37, 35891),

Gene: Dogfish_34 Start: 29638, Stop: 29883, Start Num: 11

Candidate Starts for Dogfish_34:

(Start: 11 @29638 has 1 MA's), (Start: 19 @29674 has 1 MA's), (32, 29776),

Gene: Doomphist_49 Start: 37373, Stop: 37570, Start Num: 25

Candidate Starts for Doomphist_49:

(Start: 25 @37373 has 120 MA's), (30, 37424), (31, 37436), (34, 37469), (37, 37535),

Gene: Dorothy_47 Start: 36172, Stop: 36369, Start Num: 25

Candidate Starts for Dorothy_47:

(Start: 25 @36172 has 120 MA's), (30, 36223), (31, 36235), (34, 36268), (37, 36334),

Gene: DotProduct_46 Start: 35833, Stop: 36027, Start Num: 25

Candidate Starts for DotProduct_46:

(Start: 25 @35833 has 120 MA's), (30, 35881), (31, 35893), (34, 35926), (37, 35992),

Gene: Doug_52 Start: 37491, Stop: 37688, Start Num: 25

Candidate Starts for Doug_52:

(Start: 25 @37491 has 120 MA's), (30, 37542), (31, 37554), (34, 37587), (37, 37653),

Gene: Drago_49 Start: 35839, Stop: 36036, Start Num: 25

Candidate Starts for Drago_49:

(Start: 25 @35839 has 120 MA's), (30, 35890), (31, 35902), (34, 35935), (37, 36001),

Gene: Ein37_50 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for Ein37_50:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: Eish_50 Start: 36718, Stop: 36915, Start Num: 25

Candidate Starts for Eish_50:

(Start: 25 @36718 has 120 MA's), (30, 36769), (31, 36781), (34, 36814), (37, 36880),

Gene: Emmaloid_51 Start: 37563, Stop: 37760, Start Num: 25

Candidate Starts for Emmaloid_51:

(Start: 25 @37563 has 120 MA's), (30, 37614), (31, 37626), (34, 37659), (37, 37725),

Gene: Empress_49 Start: 36516, Stop: 36713, Start Num: 25

Candidate Starts for Empress_49:

(Start: 25 @36516 has 120 MA's), (30, 36567), (31, 36579), (34, 36612), (37, 36678),

Gene: Eradicator_43 Start: 35055, Stop: 35252, Start Num: 25

Candidate Starts for Eradicator_43:

(Start: 25 @35055 has 120 MA's), (30, 35106), (31, 35118), (34, 35151), (37, 35217),

Gene: Evanesce_49 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for Evanesce_49:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: Fastidio_51 Start: 35796, Stop: 35993, Start Num: 25

Candidate Starts for Fastidio_51:

(8, 35706), (Start: 25 @35796 has 120 MA's), (30, 35847), (31, 35859), (34, 35892), (37, 35958),

Gene: Florinda_62 Start: 38976, Stop: 39173, Start Num: 25

Candidate Starts for Florinda_62:

(2, 38802), (Start: 25 @38976 has 120 MA's), (30, 39027), (31, 39039), (34, 39072), (37, 39138),

Gene: Forge_48 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for Forge_48:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: Frankie_53 Start: 37777, Stop: 37974, Start Num: 25

Candidate Starts for Frankie_53:

(Start: 21 @37750 has 3 MA's), (Start: 25 @37777 has 120 MA's), (37, 37939),

Gene: FreddyB_50 Start: 35643, Stop: 35840, Start Num: 25

Candidate Starts for FreddyB_50:

(Start: 25 @35643 has 120 MA's), (30, 35694), (31, 35706), (34, 35739), (37, 35805),

Gene: GUmbie_47 Start: 36062, Stop: 36259, Start Num: 25

Candidate Starts for GUmbie_47:

(Start: 25 @36062 has 120 MA's), (30, 36113), (31, 36125), (34, 36158), (37, 36224),

Gene: Gancho_49 Start: 36672, Stop: 36869, Start Num: 22

Candidate Starts for Gancho_49:

(Start: 22 @36672 has 15 MA's), (28, 36735),

Gene: Gandalph_51 Start: 36305, Stop: 36502, Start Num: 25

Candidate Starts for Gandalph_51:

(Start: 25 @36305 has 120 MA's), (30, 36356), (31, 36368), (34, 36401), (37, 36467),

Gene: GigiOuiOui_47 Start: 35975, Stop: 36172, Start Num: 25

Candidate Starts for GigiOuiOui_47:

(Start: 25 @35975 has 120 MA's), (30, 36026), (31, 36038), (34, 36071), (37, 36137),

Gene: Girr_50 Start: 37034, Stop: 37231, Start Num: 25

Candidate Starts for Girr_50:

(Start: 25 @37034 has 120 MA's), (30, 37085), (31, 37097), (34, 37130), (37, 37196),

Gene: Grimmer_61 Start: 38549, Stop: 38746, Start Num: 25

Candidate Starts for Grimmer_61:

(Start: 25 @38549 has 120 MA's), (30, 38600), (31, 38612), (34, 38645), (37, 38711),

Gene: Hadrien_50 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for Hadrien_50:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: Hamulus_51 Start: 37417, Stop: 37614, Start Num: 25

Candidate Starts for Hamulus_51:

(Start: 25 @37417 has 120 MA's), (30, 37468), (31, 37480), (34, 37513), (37, 37579),

Gene: Harley_52 Start: 36770, Stop: 36967, Start Num: 25

Candidate Starts for Harley_52:

(Start: 25 @36770 has 120 MA's), (30, 36821), (31, 36833), (34, 36866), (37, 36932),

Gene: lbOuu_52 Start: 37352, Stop: 37549, Start Num: 25

Candidate Starts for lbOuu_52:

(Start: 25 @37352 has 120 MA's), (30, 37403), (31, 37415), (34, 37448), (37, 37514),

Gene: lbhubesi_49 Start: 35857, Stop: 36054, Start Num: 25

Candidate Starts for Ibhubesj_49:

(Start: 25 @35857 has 120 MA's), (30, 35908), (31, 35920), (34, 35953), (37, 36019),

Gene: Jabbawokkie_63 Start: 37588, Stop: 37785, Start Num: 25

Candidate Starts for Jabbawokkie_63:

(Start: 25 @37588 has 120 MA's), (29, 37633), (30, 37639), (32, 37654), (33, 37657), (34, 37684), (35, 37711), (37, 37744),

Gene: JalFarm20_59 Start: 39334, Stop: 39531, Start Num: 25

Candidate Starts for JalFarm20_59:

(Start: 25 @39334 has 120 MA's), (30, 39385), (31, 39397), (34, 39430), (37, 39496),

Gene: Jarcob_50 Start: 36763, Stop: 36960, Start Num: 25

Candidate Starts for Jarcob_50:

(Start: 25 @36763 has 120 MA's), (30, 36814), (31, 36826), (34, 36859), (37, 36925),

Gene: Jinglebell_55 Start: 38662, Stop: 38859, Start Num: 25

Candidate Starts for Jinglebell_55:

(Start: 25 @38662 has 120 MA's), (30, 38713), (31, 38725), (34, 38758), (37, 38824),

Gene: Job42_50 Start: 38024, Stop: 38221, Start Num: 25

Candidate Starts for Job42_50:

(Start: 25 @38024 has 120 MA's), (30, 38075), (31, 38087), (34, 38120), (37, 38186),

Gene: JoeyJr_46 Start: 35270, Stop: 35467, Start Num: 25

Candidate Starts for JoeyJr_46:

(Start: 25 @35270 has 120 MA's), (30, 35321), (31, 35333), (34, 35366), (37, 35432),

Gene: Julie_40 Start: 30591, Stop: 30806, Start Num: 24

Candidate Starts for Julie_40:

(Start: 24 @30591 has 5 MA's), (26, 30624), (27, 30636), (29, 30657),

Gene: Karhdo_49 Start: 36857, Stop: 37054, Start Num: 25

Candidate Starts for Karhdo_49:

(Start: 25 @36857 has 120 MA's), (30, 36908), (31, 36920), (34, 36953), (37, 37019),

Gene: Kersh_53 Start: 38807, Stop: 39004, Start Num: 25

Candidate Starts for Kersh_53:

(Start: 25 @38807 has 120 MA's), (30, 38858), (31, 38870), (34, 38903), (37, 38969),

Gene: Kimberlium_53 Start: 38669, Stop: 38866, Start Num: 25

Candidate Starts for Kimberlium_53:

(Start: 25 @38669 has 120 MA's), (30, 38720), (31, 38732), (34, 38765), (37, 38831),

Gene: Kinbote_50 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for Kinbote_50:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: KingMidas_50 Start: 36932, Stop: 37129, Start Num: 25

Candidate Starts for KingMidas_50:

(Start: 25 @36932 has 120 MA's), (30, 36983), (31, 36995), (34, 37028), (37, 37094),

Gene: Koella_44 Start: 32693, Stop: 32890, Start Num: 25

Candidate Starts for Koella_44:

(Start: 25 @32693 has 120 MA's), (30, 32744), (31, 32756), (34, 32789), (37, 32855),

Gene: Krakatau_48 Start: 36504, Stop: 36701, Start Num: 25

Candidate Starts for Krakatau_48:

(Start: 25 @36504 has 120 MA's), (30, 36555), (31, 36567), (34, 36600), (37, 36666),

Gene: Latretium_53 Start: 37646, Stop: 37843, Start Num: 25

Candidate Starts for Latretium_53:

(Start: 25 @37646 has 120 MA's), (30, 37697), (34, 37742), (37, 37808),

Gene: Leozinho_51 Start: 36607, Stop: 36804, Start Num: 25

Candidate Starts for Leozinho_51:

(Start: 25 @36607 has 120 MA's), (30, 36658), (31, 36670), (34, 36703), (37, 36769),

Gene: Leperchaun_43 Start: 34500, Stop: 34697, Start Num: 25

Candidate Starts for Leperchaun_43:

(Start: 25 @34500 has 120 MA's), (30, 34551), (31, 34563), (34, 34596), (37, 34662),

Gene: LilHazelnut_50 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for LilHazelnut_50:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: LilMoolah_49 Start: 36424, Stop: 36621, Start Num: 25

Candidate Starts for LilMoolah_49:

(Start: 25 @36424 has 120 MA's), (30, 36475), (31, 36487), (34, 36520), (37, 36586),

Gene: LittleShirley_50 Start: 37455, Stop: 37652, Start Num: 25

Candidate Starts for LittleShirley_50:

(Start: 25 @37455 has 120 MA's), (30, 37506), (31, 37518), (34, 37551), (37, 37617),

Gene: Lizziana_56 Start: 37766, Stop: 37963, Start Num: 25

Candidate Starts for Lizziana_56:

(Start: 25 @37766 has 120 MA's), (30, 37817), (31, 37829), (34, 37862), (37, 37928),

Gene: Llama_55 Start: 38660, Stop: 38857, Start Num: 25

Candidate Starts for Llama_55:

(Start: 25 @38660 has 120 MA's), (30, 38711), (31, 38723), (34, 38756), (37, 38822),

Gene: Llij_47 Start: 35993, Stop: 36190, Start Num: 25

Candidate Starts for Llij_47:

(Start: 25 @35993 has 120 MA's), (30, 36044), (31, 36056), (34, 36089), (37, 36155),

Gene: Luke_50 Start: 36904, Stop: 37101, Start Num: 22

Candidate Starts for Luke_50:

(Start: 22 @36904 has 15 MA's), (28, 36967),

Gene: MadMen_44 Start: 35477, Stop: 35674, Start Num: 25

Candidate Starts for MadMen_44:

(Start: 25 @35477 has 120 MA's), (30, 35528), (31, 35540), (34, 35573), (37, 35639),

Gene: Madiba_46 Start: 34766, Stop: 34963, Start Num: 25

Candidate Starts for Madiba_46:

(Start: 25 @34766 has 120 MA's), (30, 34817), (31, 34829), (34, 34862), (37, 34928),

Gene: Mahavrat_48 Start: 35954, Stop: 36151, Start Num: 25

Candidate Starts for Mahavrat_48:

(Start: 25 @35954 has 120 MA's), (30, 36005), (31, 36017), (34, 36050), (37, 36116),

Gene: Mantra_47 Start: 35945, Stop: 36142, Start Num: 25

Candidate Starts for Mantra_47:

(Start: 25 @35945 has 120 MA's), (30, 35996), (31, 36008), (34, 36041), (37, 36107),

Gene: Maravista_52 Start: 38428, Stop: 38625, Start Num: 25

Candidate Starts for Maravista_52:

(Start: 25 @38428 has 120 MA's), (30, 38479), (31, 38491), (34, 38524), (37, 38590),

Gene: Marker_50 Start: 36326, Stop: 36523, Start Num: 25

Candidate Starts for Marker_50:

(Start: 25 @36326 has 120 MA's), (30, 36377), (31, 36389), (34, 36422), (37, 36488),

Gene: Martik_50 Start: 36719, Stop: 36916, Start Num: 25

Candidate Starts for Martik_50:

(Start: 25 @36719 has 120 MA's), (30, 36770), (31, 36782), (34, 36815), (37, 36881),

Gene: Misha28_46 Start: 34969, Stop: 35193, Start Num: 21

Candidate Starts for Misha28_46:

(10, 34912), (Start: 21 @34969 has 3 MA's), (Start: 25 @34996 has 120 MA's), (37, 35158),

Gene: MisterCuddles_50 Start: 37034, Stop: 37231, Start Num: 25

Candidate Starts for MisterCuddles_50:

(Start: 25 @37034 has 120 MA's), (30, 37085), (31, 37097), (34, 37130), (37, 37196),

Gene: MoRicky_22 Start: 14364, Stop: 14573, Start Num: 23

Candidate Starts for MoRicky_22:

(13, 14313), (16, 14343), (Start: 23 @14364 has 1 MA's), (30, 14439),

Gene: Modragons_54 Start: 38506, Stop: 38703, Start Num: 25

Candidate Starts for Modragons_54:

(Start: 25 @38506 has 120 MA's), (30, 38557), (31, 38569), (34, 38602), (37, 38668),

Gene: MulchExplorer_57 Start: 38668, Stop: 38865, Start Num: 25

Candidate Starts for MulchExplorer_57:

(Start: 25 @38668 has 120 MA's), (30, 38719), (31, 38731), (34, 38764), (37, 38830),

Gene: MulchSalad_47 Start: 33570, Stop: 33767, Start Num: 25

Candidate Starts for MulchSalad_47:

(6, 33471), (7, 33474), (Start: 21 @33543 has 3 MA's), (Start: 25 @33570 has 120 MA's), (37, 33732),

Gene: Nimbo_45 Start: 35073, Stop: 35270, Start Num: 25

Candidate Starts for Nimbo_45:

(Start: 25 @35073 has 120 MA's), (30, 35124), (31, 35136), (34, 35169), (37, 35235),

Gene: Nitzel_45 Start: 35193, Stop: 35390, Start Num: 25

Candidate Starts for Nitzel_45:

(Start: 25 @35193 has 120 MA's), (30, 35244), (31, 35256), (34, 35289), (37, 35355),

Gene: Nivrat_47 Start: 36297, Stop: 36494, Start Num: 25
Candidate Starts for Nivrat_47:
(Start: 25 @36297 has 120 MA's), (30, 36348), (31, 36360), (34, 36393), (37, 36459),

Gene: NormanBulbieJr_50 Start: 36706, Stop: 36903, Start Num: 25
Candidate Starts for NormanBulbieJr_50:
(Start: 25 @36706 has 120 MA's), (30, 36757), (31, 36769), (34, 36802), (37, 36868),

Gene: OBUpride_50 Start: 36945, Stop: 37142, Start Num: 22
Candidate Starts for OBUpride_50:
(Start: 22 @36945 has 15 MA's), (28, 37008), (30, 37017), (32, 37032),

Gene: Obliviate_39 Start: 31330, Stop: 31524, Start Num: 24
Candidate Starts for Obliviate_39:
(Start: 24 @31330 has 5 MA's),

Gene: Ochi17_53 Start: 38113, Stop: 38310, Start Num: 25
Candidate Starts for Ochi17_53:
(Start: 25 @38113 has 120 MA's), (30, 38164), (31, 38176), (34, 38209), (37, 38275),

Gene: OfUltron_55 Start: 38662, Stop: 38859, Start Num: 25
Candidate Starts for OfUltron_55:
(Start: 25 @38662 has 120 MA's), (30, 38713), (31, 38725), (34, 38758), (37, 38824),

Gene: Oksu_54 Start: 38558, Stop: 38755, Start Num: 25
Candidate Starts for Oksu_54:
(Start: 25 @38558 has 120 MA's), (30, 38609), (31, 38621), (34, 38654), (37, 38720),

Gene: OlympiaSaint_50 Start: 36632, Stop: 36829, Start Num: 25
Candidate Starts for OlympiaSaint_50:
(Start: 25 @36632 has 120 MA's), (30, 36683), (31, 36695), (34, 36728), (37, 36794),

Gene: OwlsT2W_49 Start: 36635, Stop: 36832, Start Num: 25
Candidate Starts for OwlsT2W_49:
(Start: 25 @36635 has 120 MA's), (30, 36686), (31, 36698), (34, 36731), (37, 36797),

Gene: PHappiness_46 Start: 35046, Stop: 35243, Start Num: 25
Candidate Starts for PHappiness_46:
(Start: 25 @35046 has 120 MA's), (30, 35097), (31, 35109), (34, 35142), (37, 35208),

Gene: PMC_44 Start: 35844, Stop: 36041, Start Num: 25
Candidate Starts for PMC_44:
(Start: 25 @35844 has 120 MA's), (30, 35895), (31, 35907), (34, 35940), (37, 36006),

Gene: Pacc40_45 Start: 35120, Stop: 35317, Start Num: 25
Candidate Starts for Pacc40_45:
(Start: 25 @35120 has 120 MA's), (30, 35171), (31, 35183), (34, 35216), (37, 35282),

Gene: Petra_40 Start: 31689, Stop: 31883, Start Num: 24
Candidate Starts for Petra_40:
(Start: 24 @31689 has 5 MA's),

Gene: Phatniss_49 Start: 37088, Stop: 37285, Start Num: 25
Candidate Starts for Phatniss_49:
(Start: 25 @37088 has 120 MA's), (30, 37139), (31, 37151), (34, 37184), (37, 37250),

Gene: Piper2020_48 Start: 35712, Stop: 35909, Start Num: 25
Candidate Starts for Piper2020_48:
(10, 35628), (Start: 21 @35685 has 3 MA's), (Start: 25 @35712 has 120 MA's), (37, 35874),

Gene: Plumbus_52 Start: 36835, Stop: 37032, Start Num: 25
Candidate Starts for Plumbus_52:
(Start: 25 @36835 has 120 MA's), (30, 36886), (31, 36898), (34, 36931), (37, 36997),

Gene: Poenanya_49 Start: 37373, Stop: 37570, Start Num: 25
Candidate Starts for Poenanya_49:
(Start: 25 @37373 has 120 MA's), (30, 37424), (31, 37436), (34, 37469), (37, 37535),

Gene: Polka14_47 Start: 35723, Stop: 35920, Start Num: 25
Candidate Starts for Polka14_47:
(Start: 25 @35723 has 120 MA's), (30, 35774), (31, 35786), (34, 35819), (37, 35885),

Gene: Pollywog_48 Start: 36551, Stop: 36748, Start Num: 25
Candidate Starts for Pollywog_48:
(Start: 25 @36551 has 120 MA's), (31, 36614), (34, 36647), (37, 36713),

Gene: PopTart_45 Start: 35859, Stop: 36056, Start Num: 25
Candidate Starts for PopTart_45:
(Start: 25 @35859 has 120 MA's), (30, 35910), (31, 35922), (34, 35955), (37, 36021),

Gene: Priscilla_50 Start: 36805, Stop: 37002, Start Num: 25
Candidate Starts for Priscilla_50:
(Start: 25 @36805 has 120 MA's), (30, 36856), (31, 36868), (34, 36901), (37, 36967),

Gene: QuickMath_52 Start: 38892, Stop: 39089, Start Num: 25
Candidate Starts for QuickMath_52:
(Start: 25 @38892 has 120 MA's), (30, 38943), (31, 38955), (34, 38988), (37, 39054),

Gene: Quico_59 Start: 38796, Stop: 38993, Start Num: 25
Candidate Starts for Quico_59:
(2, 38622), (Start: 25 @38796 has 120 MA's), (30, 38847), (31, 38859), (34, 38892), (37, 38958),

Gene: QuinnAvery_44 Start: 31024, Stop: 31239, Start Num: 24
Candidate Starts for QuinnAvery_44:
(Start: 24 @31024 has 5 MA's),

Gene: Radiance_50 Start: 36960, Stop: 37157, Start Num: 25
Candidate Starts for Radiance_50:
(Start: 25 @36960 has 120 MA's), (30, 37011), (31, 37023), (34, 37056), (37, 37122),

Gene: Ramsey_51 Start: 37587, Stop: 37784, Start Num: 25
Candidate Starts for Ramsey_51:
(Start: 25 @37587 has 120 MA's), (30, 37638), (31, 37650), (34, 37683), (37, 37749),

Gene: RedBird_47 Start: 36184, Stop: 36381, Start Num: 25

Candidate Starts for RedBird_47:
(Start: 25 @36184 has 120 MA's), (30, 36235), (31, 36247), (34, 36280), (37, 36346),

Gene: RitaG_46 Start: 35391, Stop: 35588, Start Num: 25
Candidate Starts for RitaG_46:
(Start: 25 @35391 has 120 MA's), (30, 35442), (31, 35454), (34, 35487), (37, 35553),

Gene: Rockne_48 Start: 35844, Stop: 36041, Start Num: 25
Candidate Starts for Rockne_48:
(Start: 25 @35844 has 120 MA's), (30, 35895), (31, 35907), (34, 35940), (37, 36006),

Gene: RockyHorror_50 Start: 36248, Stop: 36445, Start Num: 25
Candidate Starts for RockyHorror_50:
(Start: 25 @36248 has 120 MA's), (31, 36311), (34, 36344), (37, 36410),

Gene: Royals2015_52 Start: 36653, Stop: 36850, Start Num: 25
Candidate Starts for Royals2015_52:
(Start: 25 @36653 has 120 MA's), (30, 36704), (31, 36716), (34, 36749), (37, 36815),

Gene: Ruby_48 Start: 37035, Stop: 37232, Start Num: 25
Candidate Starts for Ruby_48:
(Start: 25 @37035 has 120 MA's), (30, 37086), (31, 37098), (34, 37131), (37, 37197),

Gene: Sabbb_56 Start: 38083, Stop: 38280, Start Num: 25
Candidate Starts for Sabbb_56:
(Start: 25 @38083 has 120 MA's), (30, 38134), (31, 38146), (34, 38179), (37, 38245),

Gene: SassyB_45 Start: 35859, Stop: 36056, Start Num: 25
Candidate Starts for SassyB_45:
(Start: 25 @35859 has 120 MA's), (30, 35910), (31, 35922), (34, 35955), (37, 36021),

Gene: Scottish_49 Start: 36403, Stop: 36600, Start Num: 25
Candidate Starts for Scottish_49:
(Start: 25 @36403 has 120 MA's), (30, 36454), (31, 36466), (34, 36499), (37, 36565),

Gene: Seabastian_55 Start: 38663, Stop: 38860, Start Num: 25
Candidate Starts for Seabastian_55:
(Start: 25 @38663 has 120 MA's), (30, 38714), (31, 38726), (34, 38759), (37, 38825),

Gene: Seagreen_51 Start: 36587, Stop: 36784, Start Num: 25
Candidate Starts for Seagreen_51:
(Start: 25 @36587 has 120 MA's), (30, 36638), (31, 36650), (34, 36683), (37, 36749),

Gene: Sejanus_84 Start: 57638, Stop: 57847, Start Num: 23
Candidate Starts for Sejanus_84:
(4, 57539), (9, 57578), (Start: 23 @57638 has 1 MA's), (36, 57815),

Gene: ShiLan_49 Start: 36752, Stop: 36949, Start Num: 25
Candidate Starts for ShiLan_49:
(Start: 25 @36752 has 120 MA's), (30, 36803), (31, 36815), (34, 36848), (37, 36914),

Gene: ShowerHandel_52 Start: 36719, Stop: 36916, Start Num: 25
Candidate Starts for ShowerHandel_52:

(Start: 25 @36719 has 120 MA's), (30, 36770), (31, 36782), (34, 36815), (37, 36881),

Gene: SiSi_49 Start: 36409, Stop: 36606, Start Num: 25

Candidate Starts for SiSi_49:

(Start: 25 @36409 has 120 MA's), (30, 36460), (31, 36472), (34, 36505), (37, 36571),

Gene: Slim_51 Start: 37554, Stop: 37751, Start Num: 25

Candidate Starts for Slim_51:

(Start: 25 @37554 has 120 MA's), (30, 37605), (31, 37617), (34, 37650), (37, 37716),

Gene: Smilerella_21 Start: 14454, Stop: 14663, Start Num: 23

Candidate Starts for Smilerella_21:

(13, 14403), (16, 14433), (Start: 23 @14454 has 1 MA's), (30, 14529),

Gene: Sparkdehlily_54 Start: 37405, Stop: 37602, Start Num: 25

Candidate Starts for Sparkdehlily_54:

(Start: 25 @37405 has 120 MA's), (30, 37456), (31, 37468), (34, 37501), (37, 37567),

Gene: Spikelee_56 Start: 38143, Stop: 38340, Start Num: 25

Candidate Starts for Spikelee_56:

(Start: 25 @38143 has 120 MA's), (30, 38194), (31, 38206), (34, 38239), (37, 38305),

Gene: Spoonbill_48 Start: 35345, Stop: 35542, Start Num: 25

Candidate Starts for Spoonbill_48:

(Start: 25 @35345 has 120 MA's), (30, 35396), (31, 35408), (34, 35441), (37, 35507),

Gene: Stap_49 Start: 36146, Stop: 36343, Start Num: 25

Candidate Starts for Stap_49:

(Start: 25 @36146 has 120 MA's), (30, 36197), (31, 36209), (34, 36242), (37, 36308),

Gene: Starcevich_50 Start: 37039, Stop: 37236, Start Num: 25

Candidate Starts for Starcevich_50:

(Start: 25 @37039 has 120 MA's), (30, 37090), (31, 37102), (34, 37135), (37, 37201),

Gene: TDanisky_54 Start: 37405, Stop: 37602, Start Num: 25

Candidate Starts for TDanisky_54:

(Start: 25 @37405 has 120 MA's), (30, 37456), (31, 37468), (34, 37501), (37, 37567),

Gene: Tchotchke_52 Start: 36304, Stop: 36501, Start Num: 25

Candidate Starts for Tchotchke_52:

(8, 36214), (Start: 25 @36304 has 120 MA's), (30, 36355), (31, 36367), (34, 36400), (37, 36466),

Gene: TootsiePop_46 Start: 34969, Stop: 35193, Start Num: 21

Candidate Starts for TootsiePop_46:

(10, 34912), (Start: 21 @34969 has 3 MA's), (Start: 25 @34996 has 120 MA's), (37, 35158),

Gene: Tootsieroll_53 Start: 36596, Stop: 36793, Start Num: 25

Candidate Starts for Tootsieroll_53:

(Start: 25 @36596 has 120 MA's), (30, 36647), (31, 36659), (34, 36692), (37, 36758),

Gene: Totinger_50 Start: 36181, Stop: 36378, Start Num: 25

Candidate Starts for Totinger_50:

(Start: 25 @36181 has 120 MA's), (30, 36232), (31, 36244), (34, 36277), (37, 36343),

Gene: Tweety_49 Start: 36917, Stop: 37114, Start Num: 25

Candidate Starts for Tweety_49:

(Start: 25 @36917 has 120 MA's), (30, 36968), (31, 36980), (34, 37013), (37, 37079),

Gene: Ubuntu_50 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for Ubuntu_50:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: UmaThurman_37 Start: 31748, Stop: 31954, Start Num: 18

Candidate Starts for UmaThurman_37:

(1, 31565), (3, 31640), (5, 31670), (12, 31712), (Start: 18 @31748 has 1 MA's), (20, 31760), (29, 31826), (36, 31934), (37, 31937),

Gene: UncleRicky_50 Start: 37336, Stop: 37533, Start Num: 25

Candidate Starts for UncleRicky_50:

(Start: 25 @37336 has 120 MA's), (30, 37387), (31, 37399), (34, 37432), (37, 37498),

Gene: Veteran_47 Start: 36053, Stop: 36250, Start Num: 25

Candidate Starts for Veteran_47:

(Start: 25 @36053 has 120 MA's), (30, 36104), (31, 36116), (34, 36149), (37, 36215),

Gene: Webster2_50 Start: 36949, Stop: 37146, Start Num: 22

Candidate Starts for Webster2_50:

(Start: 22 @36949 has 15 MA's), (28, 37012),

Gene: Yorick_49 Start: 37093, Stop: 37290, Start Num: 25

Candidate Starts for Yorick_49:

(Start: 25 @37093 has 120 MA's), (30, 37144), (31, 37156), (34, 37189), (37, 37255),

Gene: ZAYM_43 Start: 32247, Stop: 32456, Start Num: 19

Candidate Starts for ZAYM_43:

(14, 32220), (Start: 19 @32247 has 1 MA's),

Gene: Zaheer_44 Start: 31390, Stop: 31605, Start Num: 24

Candidate Starts for Zaheer_44:

(Start: 24 @31390 has 5 MA's),

Gene: Zapner_62 Start: 37589, Stop: 37786, Start Num: 25

Candidate Starts for Zapner_62:

(Start: 25 @37589 has 120 MA's), (29, 37634), (30, 37640), (32, 37655), (33, 37658), (34, 37685), (35, 37712), (37, 37745),

Gene: Zarbodnamra_42 Start: 32451, Stop: 32645, Start Num: 24

Candidate Starts for Zarbodnamra_42:

(Start: 24 @32451 has 5 MA's),

Gene: Zerg_49 Start: 36357, Stop: 36554, Start Num: 25

Candidate Starts for Zerg_49:

(Start: 25 @36357 has 120 MA's), (31, 36420), (34, 36453), (37, 36519),