Pham 347266


1: Steamy_48
2: Pharaon_47
3: Zimmer_49
4: Luchador_56
5: Gail_56
6: SunBee_55
7: Jeeves_56
8: SororFago_54
9: LastResort_56 + 7
10: Oolda_57 + 4
11: ShayRa_58 + 5
12: LogiBear_55
13: Rosalind_56 + 2
14: Nedarya_52
15: Elle_51
16: Ravana_59
17: EagleEye_54 + 2
18: 40AC_53
19: Crucio_52 + 7
20: ChipMunk_54 + 1
21: Delons_53 + 4
22: Bactobuster_51 + 5
23: Pomar16_54 + 13
24: Pukovnik_51
25: Kalpine_50 + 2
26: Changeling_51
27: Hellalump_51 + 4
28: BiancaTM92_52 + 1
29: EZMoney23_50 + 1
30: BobSwaget_48 + 3
31: JoshKayV_54
32: Bugsy_54 + 7
33: Smeagan_55 + 1
34: NothingSpecial_50
35: AnnaL29_54
36: Larenn_51 + 1
37: CRB1_56
38: Centaur_53 + 13
39: Bradman_51 + 5
40: NicoleTera_51
41: Prudy_52
42: Echild_52 + 1
43: RedRock_54
44: Fameo_52
45: Trixie_50
46: QueenB2_51
47: ArcherNM_47
48: AN3_55 + 1
49: LionsBait_52 + 1
50: Koduck_53 + 1

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51: MissWhite_51
52: KingCyrus_54
53: DeerParkTS_50
54: Journey13_46
55: TarsusIV_51
56: Loser_54
57: GaugeLDP_50
58: XianYue_51
59: BabyBack_51
60: Iwokeuplikedis_55
61: Trooper_53
62: HiNdeR_37
63: Timshel_38
64: Toro_39 + 2
65: Pioneer_52 + 28
66: Arissanae_51 + 5
67: Celestialunch_50 + 1
68: Mamihlapa_51 + 2
69: Elephantoon_51
70: Toaka_52
71: LoneWolf_53 + 1
72: Vanisoa_52
73: Keziacharles14_52
74: Yecey3_53
75: Stellammi_126

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 347266 Report

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

Pham number 347266 has 206 members, 15 are drafts.

Phages represented in each track:
- Track 1 : Steamy_48
- Track 2 : Pharaoh_47
- Track 3 : Zimmer_49
- Track 4 : Luchador_56
- Track 5 : Gail_56
- Track 6 : Sunhee_55
- Track 7 : Jeeves_56
- Track 8 : SororFago_54
- Track 9 : LastResort_56, JSwag_56, Boohoo_57, Anaysia_57, DekHockey33_57, Nebulosus_56, Epsocamisio_55, ReMo_56
- Track 10 : Oofda_57, Waits_57, Strosahl_57, Remus_57, Warrior24_59
- Track 11 : ShayRa_58, Anon_53, Soups_58, Looper_57, KatherineG_58, Switzerland_57
- Track 12 : LogiBear_55
- Track 13 : Rosalind_56, MinecraftSteve_58, Battleship_59
- Track 14 : Nedarya_52
- Track 15 : Elle_51
- Track 16 : Ravana_59
- Track 17 : EagleEye_54, PainterBoy_53, Lucyedi_53
- Track 18 : 40AC_53
- Track 19 : Crucio_52, SemperFi_53, FiringLine_52, Georgie2_53, SweetiePie_52, Power_51, SnapTap_52, QueenBeesly_52
- Track 20 : ChipMunk_54, EvilGenius_54
- Track 21 : Deloris_53, BengiVuitton_54, 20ES_55, LadyBird_57, First_0054
- Track 22 : Bactobuster_51, Jaan_52, Tristan_51, IronMan_52, Phaded_53, Landor_52
- Track 23 : Pomar16_54, C3_50, Duplo_54, Travvers_54, DBQu4n_54, AN9_55, Tomathan_54, D29_51, Naji_54, D32_53, Kerberos_54, VC3_55, StarStuff_54, ANI8_55
- Track 24 : Pukovnik_51
- Track 25 : Kalpine_50, Colin_51, WeiHuaDA_52
- Track 26 : Changeling_51
- Track 27 : Heffalump_51, Dalmatian_53, DudeLittle_51, Anselm_53, Retro23_53
- Track 28 : BiancaTri92_52, Leogania_52
- Track 29 : EZMoney23_50, ForesterFrank_51
- Track 30 : BobSwaget_48, Miko_49, Rachaly_51, Lokk_49
- Track 31 : JoshKayV_54

• Track 32 : Bugsy_54, AbbyPaige_54, Whabigail7_53, Turbido_53, Leviathan_54, LilTurb_53, Agape74_54, Jerm_54
• Track 33 : Smeagan_55, Dignity_54
• Track 34 : NothingSpecial_50
• Track 35 : AnnaL29_54
• Track 36 : Larenn_51, Malec_52
• Track 37 : CRB1_56
• Track 38 : Centaur_53, Gratitude_53, HarryHoudini_53, MiculUcigas_52, Terrific_53, Piro94_52, NaSiaTalie_52, Sknot_52, Drake55_54, Updawg_53, Flare16_52, Equemioh13_53, Baehexic_51, WideWale_53
• Track 39 : Bradman_51, Jsquared_50, TipsytheTRex_48, Serenity_52, Quokka_50, MajorMajor_51
• Track 40 : NicoleTera_51
• Track 41 : Prudy_52
• Track 42 : Echild_52, Benvolio_49
• Track 43 : RedRock_54
• Track 44 : Fameo_52
• Track 45 : Trixie_50
• Track 46 : QueenB2_51
• Track 47 : ArcherNM_47
• Track 48 : AN3_55, VA6_53
• Track 49 : LionsBait_52, HippoHollow_52
• Track 50 : Koduck_53, L5_51
• Track 51 : MissWhite_51
• Track 52 : KingCyrus_54
• Track 53 : DeerParkTS_50
• Track 54 : Journey13_46
• Track 55 : TarsusIV_51
• Track 56 : Loser_54
• Track 57 : GaugeLDP_50
• Track 58 : XianYue_51
• Track 59 : BabyBack_51
• Track 60 : Iwokeuplikedis_55
• Track 61 : Trooper_53
• Track 62 : HINdeR_37
• Track 63 : Timshel_38
• Track 64 : Toro_39, FlyCatcher_41, Sheen_39
• Track 65 : Pioneer_52, Phaeder_52, Lilleskat_52, Priya_52, Catalina_53, RyeScarlet_52, Onglai_51, ExplosioNervosa_52, Eidsmoe_52, EmyBug_51, Scherzo_52, Spouty_52, Myxus_52, Beemo_52, Ugenie5_49, EdogawaKiddo_52, Holex_52, Aliter_52, PackMan_51, Ayanochan_51, Sachima_52, Qobbit_52, HortumSL17_52, Conquerage_52, Fayely_52, Phonnegut_52, Jiawan_52, Hanray_52, Tubs_52
• Track 66 : Arissanae_51, Rahalelujah_52, CogOmlette_51, WorldCup_51, Bellris_52, Minispark_51
• Track 67 : Celestialunch_50, MegTheThird_51
• Track 68 : Maminiaina_51, BogosyJay_51, Alma_52
• Track 69 : Elephantoon_51
• Track 70 : Toaka_52
• Track 71 : LoneWolf_53, Darrell_54
• Track 72 : Vanisoa_52
• Track 73 : Keziacharles14_52
• Track 74 : Yecey3_53

• Track 75 : Stellammi_126

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 158 of the 191 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 20ES_55, AN3_55, AN9_55, ANI8_55, AbbyPaige_54, Agape74_54, Aliter_52, Alma_52, AnnaL29_54, Anon_53, Arissanae_51, Ayanochan_51, BabyBack_51, Bactobuster_51, Baehexic_51, Battleship_59, Beemo_52, Bellris_52, BengiVuitton_54, Benvolio_49, BiancaTri92_52, BobSwaget_48, BogosyJay_51, Bradman_51, Bugsy_54, C3_50, CRB1_56, Catalina_53, Celestialunch_50, Centaur_53, ChipMunk_54, CogOmlette_51, Conquerage_52, D29_51, D32_53, DBQu4n_54, Darrell_54, Deloris_53, Dignity_54, Drake55_54, Duplo_54, EagleEye_54, Echild_52, EdogawaKiddo_52, Eidsmoe_52, Elephantoon_51, Elle_51, EmyBug_51, Equemioh13_53, EvilGenius_54, ExplosioNervosa_52, Fameo_52, Fayely_52, First_0054, Flare16_52, FlyCatcher_41, Gail_56, GaugeLDP_50, Gratitude_53, Hanray_52, HarryHoudini_53, HippoHollow_52, Holex_52, HortumSL17_52, IronMan_52, Iwokeuplikedis_55, Jaan_52, Jeeves_56, Jerm_54, Jiawan_52, Journey13_46, Jsquared_50, KatherineG_58, Kerberos_54, Keziacharles14_52, KingCyrus_54, Koduck_53, L5_51, LadyBird_57, Landor_52, Larenn_51, Leogania_52, Leviathan_54, LilTurb_53, Lilleskat_52, LionsBait_52, Lokk_49, LoneWolf_53, Looper_57, Loser_54, Luchador_56, Lucyedi_53, MajorMajor_51, Malec_52, Maminiaina_51, MegTheThird_51, MiculUcigas_52, Miko_49, MinecraftSteve_58, Minispark_51, MissWhite_51, Myxus_52, NaSiaTalie_52, Naji_54, Nedarya_52, NicoleTera_51, NothingSpecial_50, Onglai_51, Oofda_57, PackMan_51, PainterBoy_53, Phaded_53, Phaeder_52, Pharaoh_47, Phonnegut_52, Pioneer_52, Piro94_52, Pomar16_54, Priya_52, Prudy_52, Pukovnik_51, Qobbit_52, QueenB2_51, Quokka_50, Rachaly_51, Rahalelujah_52, Ravana_59, RedRock_54, Remus_57, Rosalind_56, RyeScarlet_52, Sachima_52, Scherzo_52, Serenity_52, ShayRa_58, Sheen_39, Sknot_52, Smeagan_55, SororFago_54, Soups_58, Spouty_52, StarStuff_54, Steamy_48, Strosahl_57, Sunhee_55, Switzerland_57, TarsusIV_51, Terrific_53, Timshel_38, TipsytheTRex_48, Toaka_52, Tomathan_54, Toro_39, Travvers_54, Tristan_51, Trooper_53, Tubs_52, Turbido_53, Ugenie5_49, Updawg_53, VA6_53, VC3_55, Vanisoa_52, Waits_57, Warrior24_59, Whabigail7_53, WideWale_53, WorldCup_51, XianYue_51, Yecey3_53, Zimmer_49,

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

Genes that do not have the "Most Annotated" start:
• 40AC_53, Anaysia_57, Anselm_53, ArcherNM_47, Boohoo_57, Changeling_51, Colin_51, Crucio_52, Dalmatian_53, DeerParkTS_50, DekHockey33_57, DudeLittle_51, EZMoney23_50, Epsocamisio_55, FiringLine_52, ForesterFrank_51, Georgie2_53, HINdeR_37, Heffalump_51, JSwag_56, JoshKayV_54, Kalpine_50, LastResort_56, LogiBear_55, Nebulosus_56, Power_51, QueenBeesly_52, ReMo_56, Retro23_53, SemperFi_53, SnapTap_52, Stellammi_126, SweetiePie_52, Trixie_50, WeiHuaDA_52,

Summary by start number:

Start 20:
• Found in 20 of 206 (9.7%) of genes in pham
• Manual Annotations of this start: 19 of 191
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 40AC_53 (A17), Anselm_53 (A2), Colin_51 (A2), Crucio_52 (A2), Dalmatian_53 (A2), DeerParkTS_50 (A2), DudeLittle_51 (A2), FiringLine_52 (A2), Georgie2_53 (A2), Heffalump_51 (A2), JoshKayV_54 (A2), Kalpine_50 (A2), Power_51 (A2), QueenBeesly_52 (A2), Retro23_53 (A2), SemperFi_53 (A2), SnapTap_52 (A2), SweetiePie_52 (A2), Trixie_50 (A2), WeiHuaDA_52 (A2),

Start 21:
• Found in 4 of 206 (1.9%) of genes in pham
• Manual Annotations of this start: 4 of 191
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArcherNM_47 (A2), Changeling_51 (A2), EZMoney23_50 (A2), ForesterFrank_51 (A2),

Start 22:
• Found in 1 of 206 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LogiBear_55 (A15),

Start 23:
• Found in 1 of 206 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 191
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stellammi_126 (UNK),

Start 24:
• Found in 8 of 206 (3.9%) of genes in pham
• Manual Annotations of this start: 8 of 191
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_57 (A15), Boohoo_57 (A15), DekHockey33_57 (A15), Epsocamisio_55 (A15), JSwag_56 (A15), LastResort_56 (A15), Nebulosus_56 (A15), ReMo_56 (A15),

Start 25:
• Found in 171 of 206 (83.0%) of genes in pham
• Manual Annotations of this start: 158 of 191
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 20ES_55 (A2), AN3_55 (A2), AN9_55 (A2), ANI8_55 (A2), AbbyPaige_54 (A2), Agape74_54 (A2), Aliter_52 (A9), Alma_52 (A9), AnnaL29_54 (A2), Anon_53 (A15), Arissanae_51 (A9), Ayanochan_51 (A9), BabyBack_51 (A2), Bactobuster_51 (A2), Baehexic_51 (A2), Battleship_59 (A15), Beemo_52 (A9), Bellris_52 (A9), BengiVuitton_54 (A2), Benvolio_49 (A2), BiancaTri92_52 (A2), BobSwaget_48 (A2), BogosyJay_51 (A9), Bradman_51 (A2), Bugsy_54 (A2), C3_50 (A2), CRB1_56 (A2), Catalina_53 (A9), Celestialunch_50 (A9), Centaur_53 (A2), ChipMunk_54 (A2), CogOmlette_51 (A9), Conquerage_52 (A9),

D29_51 (A2), D32_53 (A2), DBQu4n_54 (A2), Darrell_54 (A9), Deloris_53 (A2), Dignity_54 (A2), Drake55_54 (A2), Duplo_54 (A2), EagleEye_54 (A16), Echild_52 (A2), EdogawaKiddo_52 (A9), Eidsmoe_52 (A9), Elephantoon_51 (A9), Elle_51 (A15), EmyBug_51 (A9), Equemioh13_53 (A2), EvilGenius_54 (A2), ExplosioNervosa_52 (A9), Fameo_52 (A2), Fayely_52 (A9), First_0054 (A2), Flare16_52 (A2), FlyCatcher_41 (A7), Gail_56 (A14), GaugeLDP_50 (A2), Gratitude_53 (A2), Hanray_52 (A9), HarryHoudini_53 (A2), HippoHollow_52 (A2), Holex_52 (A9), HortumSL17_52 (A9), IronMan_52 (A2), Iwokeuplikedis_55 (A2), Jaan_52 (A2), Jeeves_56 (A14), Jerm_54 (A2), Jiawan_52 (A9), Journey13_46 (A2), Jsquared_50 (A2), KatherineG_58 (A15), Kerberos_54 (A2), Keziacharles14_52 (A9), KingCyrus_54 (A2), Koduck_53 (A2), L5_51 (A2), LadyBird_57 (A2), Landor_52 (A2), Larenn_51 (A2), Leogania_52 (A2), Leviathan_54 (A2), LilTurb_53 (A2), Lilleskat_52 (A9), LionsBait_52 (A2), Lokk_49 (A2), LoneWolf_53 (A9), Looper_57 (A15), Loser_54 (A2), Luchador_56 (A14), Lucyedi_53 (A16), MajorMajor_51 (A2), Malec_52 (A2), Maminiaina_51 (A9), MegTheThird_51 (A9), MiculUcigas_52 (A2), Miko_49 (A2), MinecraftSteve_58 (A15), Minispark_51 (A9), MissWhite_51 (A2), Myxus_52 (A9), NaSiaTalie_52 (A2), Naji_54 (A2), Nedarya_52 (A15), NicoleTera_51 (A2), NothingSpecial_50 (A2), Onglai_51 (A9), Oofda_57 (A15), PackMan_51 (A9), PainterBoy_53 (A16), Phaded_53 (A2), Phaeder_52 (A9), Pharaoh_47 (A12), Phonnegut_52 (A9), Pioneer_52 (A9), Piro94_52 (A2), Pomar16_54 (A2), Priya_52 (A9), Prudy_52 (A2), Pukovnik_51 (A2), Qobbit_52 (A9), QueenB2_51 (A2), Quokka_50 (A2), Rachaly_51 (A2), Rahalelujah_52 (A9), Ravana_59 (A15), RedRock_54 (A2), Remus_57 (A15), Rosalind_56 (A15), RyeScarlet_52 (A9), Sachima_52 (A9), Scherzo_52 (A9), Serenity_52 (A2), ShayRa_58 (A15), Sheen_39 (A7), Sknot_52 (A2), Smeagan_55 (A2), SororFago_54 (A14), Soups_58 (A15), Spouty_52 (A9), StarStuff_54 (A2), Steamy_48 (A12), Strosahl_57 (A15), Sunhee_55 (A14), Switzerland_57 (A15), TarsusIV_51 (A2), Terrific_53 (A2), Timshel_38 (A7), TipsytheTRex_48 (A2), Toaka_52 (A9), Tomathan_54 (A2), Toro_39 (A7), Travvers_54 (A2), Tristan_51 (A2), Trooper_53 (A2), Tubs_52 (A9), Turbido_53 (A2), Ugenie5_49 (A9), Updawg_53 (A2), VA6_53 (A2), VC3_55 (A2), Vanisoa_52 (A9), Waits_57 (A15), Warrior24_59 (A15), Whabigail7_53 (A2), WideWale_53 (A2), WorldCup_51 (A9), XianYue_51 (A2), Yecey3_53 (A9), Zimmer_49 (A12),

Start 30:
• Found in 1 of 206 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 191
• Called 100.0% of time when present
• Phage (with cluster) where this start called: HINdeR_37 (A7),

Summary by clusters:

There are 9 clusters represented in this pham: A15, A14, A17, A16, A12, A2, A7, A9, UNK,

Info for manual annotations of cluster A12:
•Start number 25 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A14:
•Start number 25 was manually annotated 5 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 24 was manually annotated 8 times for cluster A15.
•Start number 25 was manually annotated 17 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 25 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A2:
•Start number 20 was manually annotated 19 times for cluster A2.
•Start number 21 was manually annotated 4 times for cluster A2.
•Start number 25 was manually annotated 85 times for cluster A2.

Info for manual annotations of cluster A7:
•Start number 25 was manually annotated 2 times for cluster A7.
•Start number 30 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:
•Start number 25 was manually annotated 43 times for cluster A9.

Info for manual annotations of cluster UNK:
•Start number 23 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: 20ES_55 Start: 36467, Stop: 36264, Start Num: 25
Candidate Starts for 20ES_55:
(Start: 25 @36467 has 158 MA's), (34, 36374),

Gene: 40AC_53 Start: 37199, Stop: 36996, Start Num: 20
Candidate Starts for 40AC_53:
(Start: 20 @37199 has 19 MA's), (34, 37106),

Gene: AN3_55 Start: 35152, Stop: 34949, Start Num: 25
Candidate Starts for AN3_55:
(Start: 25 @35152 has 158 MA's), (36, 35050), (40, 34999),

Gene: AN9_55 Start: 36177, Stop: 35980, Start Num: 25
Candidate Starts for AN9_55:
(Start: 25 @36177 has 158 MA's),

Gene: ANI8_55 Start: 36177, Stop: 35980, Start Num: 25
Candidate Starts for ANI8_55:
(Start: 25 @36177 has 158 MA's),

Gene: AbbyPaige_54 Start: 36398, Stop: 36195, Start Num: 25
Candidate Starts for AbbyPaige_54:
(9, 36632), (10, 36629), (13, 36593), (Start: 25 @36398 has 158 MA's), (34, 36305),

Gene: Agape74_54 Start: 36392, Stop: 36189, Start Num: 25
Candidate Starts for Agape74_54:
(9, 36626), (10, 36623), (13, 36587), (Start: 25 @36392 has 158 MA's), (34, 36299),

Gene: Aliter_52 Start: 35801, Stop: 35598, Start Num: 25

Candidate Starts for Aliter_52:
(Start: 25 @35801 has 158 MA's), (36, 35699), (38, 35678),

Gene: Alma_52 Start: 35981, Stop: 35778, Start Num: 25
Candidate Starts for Alma_52:
(Start: 25 @35981 has 158 MA's),

Gene: Anaysia_57 Start: 35107, Stop: 34916, Start Num: 24
Candidate Starts for Anaysia_57:
(Start: 24 @35107 has 8 MA's), (39, 34984),

Gene: AnnaL29_54 Start: 36947, Stop: 36744, Start Num: 25
Candidate Starts for AnnaL29_54:
(14, 37142), (Start: 25 @36947 has 158 MA's), (39, 36812), (43, 36761),

Gene: Anon_53 Start: 34405, Stop: 34214, Start Num: 25
Candidate Starts for Anon_53:
(Start: 25 @34405 has 158 MA's), (39, 34282),

Gene: Anselm_53 Start: 36320, Stop: 36117, Start Num: 20
Candidate Starts for Anselm_53:
(Start: 20 @36320 has 19 MA's), (34, 36227),

Gene: ArcherNM_47 Start: 35909, Stop: 35703, Start Num: 21
Candidate Starts for ArcherNM_47:
(3, 36257), (4, 36230), (7, 36167), (19, 35939), (Start: 21 @35909 has 4 MA's), (34, 35816), (37, 35804),

Gene: Arissanae_51 Start: 36505, Stop: 36302, Start Num: 25
Candidate Starts for Arissanae_51:
(Start: 25 @36505 has 158 MA's), (33, 36415),

Gene: Ayanochan_51 Start: 35959, Stop: 35756, Start Num: 25
Candidate Starts for Ayanochan_51:
(Start: 25 @35959 has 158 MA's), (36, 35857), (38, 35836),

Gene: BabyBack_51 Start: 36632, Stop: 36429, Start Num: 25
Candidate Starts for BabyBack_51:
(Start: 25 @36632 has 158 MA's), (36, 36530), (39, 36497),

Gene: Bactobuster_51 Start: 36870, Stop: 36673, Start Num: 25
Candidate Starts for Bactobuster_51:
(Start: 25 @36870 has 158 MA's), (37, 36765),

Gene: Baehexic_51 Start: 36076, Stop: 35873, Start Num: 25
Candidate Starts for Baehexic_51:
(Start: 25 @36076 has 158 MA's), (36, 35974), (40, 35923), (45, 35884),

Gene: Battleship_59 Start: 35378, Stop: 35187, Start Num: 25
Candidate Starts for Battleship_59:
(Start: 25 @35378 has 158 MA's), (39, 35255),

Gene: Beemo_52 Start: 35971, Stop: 35768, Start Num: 25

Candidate Starts for Beemo_52:
(Start: 25 @35971 has 158 MA's), (36, 35869), (38, 35848),

Gene: Bellris_52 Start: 35442, Stop: 35239, Start Num: 25
Candidate Starts for Bellris_52:
(Start: 25 @35442 has 158 MA's), (33, 35352),

Gene: BengiVuitton_54 Start: 36435, Stop: 36232, Start Num: 25
Candidate Starts for BengiVuitton_54:
(Start: 25 @36435 has 158 MA's), (34, 36342),

Gene: Benvolio_49 Start: 35345, Stop: 35142, Start Num: 25
Candidate Starts for Benvolio_49:
(Start: 25 @35345 has 158 MA's), (36, 35243),

Gene: BiancaTri92_52 Start: 36725, Stop: 36522, Start Num: 25
Candidate Starts for BiancaTri92_52:
(Start: 25 @36725 has 158 MA's), (34, 36632), (43, 36539),

Gene: BobSwaget_48 Start: 34748, Stop: 34545, Start Num: 25
Candidate Starts for BobSwaget_48:
(Start: 25 @34748 has 158 MA's), (34, 34655), (43, 34562),

Gene: BogosyJay_51 Start: 35686, Stop: 35495, Start Num: 25
Candidate Starts for BogosyJay_51:
(Start: 25 @35686 has 158 MA's),

Gene: Boohoo_57 Start: 35107, Stop: 34916, Start Num: 24
Candidate Starts for Boohoo_57:
(Start: 24 @35107 has 8 MA's), (39, 34984),

Gene: Bradman_51 Start: 34916, Stop: 34713, Start Num: 25
Candidate Starts for Bradman_51:
(19, 34952), (Start: 25 @34916 has 158 MA's), (37, 34811),

Gene: Bugsy_54 Start: 36449, Stop: 36246, Start Num: 25
Candidate Starts for Bugsy_54:
(9, 36683), (10, 36680), (13, 36644), (Start: 25 @36449 has 158 MA's), (34, 36356),

Gene: C3_50 Start: 36177, Stop: 35980, Start Num: 25
Candidate Starts for C3_50:
(Start: 25 @36177 has 158 MA's),

Gene: CRB1_56 Start: 36810, Stop: 36607, Start Num: 25
Candidate Starts for CRB1_56:
(Start: 25 @36810 has 158 MA's), (34, 36717),

Gene: Catalina_53 Start: 35874, Stop: 35671, Start Num: 25
Candidate Starts for Catalina_53:
(Start: 25 @35874 has 158 MA's), (36, 35772), (38, 35751),

Gene: Celestialunch_50 Start: 35526, Stop: 35323, Start Num: 25
Candidate Starts for Celestialunch_50:

(Start: 25 @35526 has 158 MA's), (31, 35466), (34, 35433),

Gene: Centaur_53 Start: 36293, Stop: 36090, Start Num: 25
Candidate Starts for Centaur_53:
(Start: 25 @36293 has 158 MA's), (36, 36191), (40, 36140), (45, 36101),

Gene: Changeling_51 Start: 36504, Stop: 36298, Start Num: 21
Candidate Starts for Changeling_51:
(6, 36777), (7, 36762), (19, 36534), (Start: 21 @36504 has 4 MA's), (34, 36411),

Gene: ChipMunk_54 Start: 37667, Stop: 37464, Start Num: 25
Candidate Starts for ChipMunk_54:
(Start: 25 @37667 has 158 MA's), (37, 37562), (43, 37481),

Gene: CogOmlette_51 Start: 35439, Stop: 35236, Start Num: 25
Candidate Starts for CogOmlette_51:
(Start: 25 @35439 has 158 MA's), (33, 35349),

Gene: Colin_51 Start: 36294, Stop: 36103, Start Num: 20
Candidate Starts for Colin_51:
(19, 36321), (Start: 20 @36294 has 19 MA's), (34, 36201), (42, 36129), (43, 36120),

Gene: Conquerage_52 Start: 35945, Stop: 35742, Start Num: 25
Candidate Starts for Conquerage_52:
(Start: 25 @35945 has 158 MA's), (36, 35843), (38, 35822),

Gene: Crucio_52 Start: 35901, Stop: 35698, Start Num: 20
Candidate Starts for Crucio_52:
(9, 36126), (13, 36087), (Start: 20 @35901 has 19 MA's), (34, 35808), (43, 35715),

Gene: D29_51 Start: 35759, Stop: 35562, Start Num: 25
Candidate Starts for D29_51:
(Start: 25 @35759 has 158 MA's),

Gene: D32_53 Start: 35759, Stop: 35562, Start Num: 25
Candidate Starts for D32_53:
(Start: 25 @35759 has 158 MA's),

Gene: DBQu4n_54 Start: 35740, Stop: 35543, Start Num: 25
Candidate Starts for DBQu4n_54:
(Start: 25 @35740 has 158 MA's),

Gene: Dalmatian_53 Start: 36293, Stop: 36090, Start Num: 20
Candidate Starts for Dalmatian_53:
(Start: 20 @36293 has 19 MA's), (34, 36200),

Gene: Darrell_54 Start: 36574, Stop: 36371, Start Num: 25
Candidate Starts for Darrell_54:
(Start: 25 @36574 has 158 MA's), (34, 36481), (39, 36439),

Gene: DeerParkTS_50 Start: 35415, Stop: 35209, Start Num: 20
Candidate Starts for DeerParkTS_50:
(Start: 20 @35415 has 19 MA's), (34, 35322),

Gene: DekHockey33_57 Start: 35399, Stop: 35208, Start Num: 24
Candidate Starts for DekHockey33_57:
(Start: 24 @35399 has 8 MA's), (39, 35276),

Gene: Deloris_53 Start: 36104, Stop: 35901, Start Num: 25
Candidate Starts for Deloris_53:
(Start: 25 @36104 has 158 MA's), (34, 36011),

Gene: Dignity_54 Start: 36472, Stop: 36269, Start Num: 25
Candidate Starts for Dignity_54:
(9, 36706), (10, 36703), (13, 36667), (Start: 25 @36472 has 158 MA's), (32, 36403), (34, 36379),

Gene: Drake55_54 Start: 36372, Stop: 36169, Start Num: 25
Candidate Starts for Drake55_54:
(Start: 25 @36372 has 158 MA's), (36, 36270), (40, 36219), (45, 36180),

Gene: DudeLittle_51 Start: 36059, Stop: 35856, Start Num: 20
Candidate Starts for DudeLittle_51:
(Start: 20 @36059 has 19 MA's), (34, 35966),

Gene: Duplo_54 Start: 35796, Stop: 35599, Start Num: 25
Candidate Starts for Duplo_54:
(Start: 25 @35796 has 158 MA's),

Gene: EZMoney23_50 Start: 35817, Stop: 35611, Start Num: 21
Candidate Starts for EZMoney23_50:
(19, 35847), (Start: 21 @35817 has 4 MA's), (34, 35724), (37, 35712),

Gene: EagleEye_54 Start: 35531, Stop: 35337, Start Num: 25
Candidate Starts for EagleEye_54:
(17, 35600), (Start: 25 @35531 has 158 MA's), (29, 35507),

Gene: Echild_52 Start: 35369, Stop: 35166, Start Num: 25
Candidate Starts for Echild_52:
(Start: 25 @35369 has 158 MA's), (36, 35267),

Gene: EdogawaKiddo_52 Start: 35922, Stop: 35719, Start Num: 25
Candidate Starts for EdogawaKiddo_52:
(Start: 25 @35922 has 158 MA's), (36, 35820), (38, 35799),

Gene: Eidsmoe_52 Start: 35937, Stop: 35734, Start Num: 25
Candidate Starts for Eidsmoe_52:
(Start: 25 @35937 has 158 MA's), (36, 35835), (38, 35814),

Gene: Elephantoon_51 Start: 35319, Stop: 35116, Start Num: 25
Candidate Starts for Elephantoon_51:
(Start: 25 @35319 has 158 MA's), (33, 35229), (39, 35184),

Gene: Elle_51 Start: 33213, Stop: 33022, Start Num: 25
Candidate Starts for Elle_51:
(11, 33462), (15, 33426), (Start: 25 @33213 has 158 MA's), (39, 33090),

Gene: EmyBug_51 Start: 35939, Stop: 35736, Start Num: 25
Candidate Starts for EmyBug_51:
(Start: 25 @35939 has 158 MA's), (36, 35837), (38, 35816),

Gene: Epsocamisio_55 Start: 34642, Stop: 34451, Start Num: 24
Candidate Starts for Epsocamisio_55:
(Start: 24 @34642 has 8 MA's), (39, 34519),

Gene: Equemioh13_53 Start: 36195, Stop: 35992, Start Num: 25
Candidate Starts for Equemioh13_53:
(Start: 25 @36195 has 158 MA's), (36, 36093), (40, 36042), (45, 36003),

Gene: EvilGenius_54 Start: 37668, Stop: 37465, Start Num: 25
Candidate Starts for EvilGenius_54:
(Start: 25 @37668 has 158 MA's), (37, 37563), (43, 37482),

Gene: ExplosioNervosa_52 Start: 36005, Stop: 35802, Start Num: 25
Candidate Starts for ExplosioNervosa_52:
(Start: 25 @36005 has 158 MA's), (36, 35903), (38, 35882),

Gene: Fameo_52 Start: 36229, Stop: 36026, Start Num: 25
Candidate Starts for Fameo_52:
(9, 36463), (10, 36460), (12, 36448), (13, 36424), (Start: 25 @36229 has 158 MA's), (27, 36211), (37, 36124),

Gene: Fayely_52 Start: 35906, Stop: 35703, Start Num: 25
Candidate Starts for Fayely_52:
(Start: 25 @35906 has 158 MA's), (36, 35804), (38, 35783),

Gene: FiringLine_52 Start: 35882, Stop: 35679, Start Num: 20
Candidate Starts for FiringLine_52:
(9, 36107), (13, 36068), (Start: 20 @35882 has 19 MA's), (34, 35789), (43, 35696),

Gene: First_0054 Start: 36367, Stop: 36164, Start Num: 25
Candidate Starts for First_0054:
(Start: 25 @36367 has 158 MA's), (34, 36274),

Gene: Flare16_52 Start: 35954, Stop: 35751, Start Num: 25
Candidate Starts for Flare16_52:
(Start: 25 @35954 has 158 MA's), (36, 35852), (40, 35801), (45, 35762),

Gene: FlyCatcher_41 Start: 30344, Stop: 30156, Start Num: 25
Candidate Starts for FlyCatcher_41:
(Start: 25 @30344 has 158 MA's), (39, 30221), (41, 30197), (43, 30170), (44, 30167),

Gene: ForesterFrank_51 Start: 36570, Stop: 36364, Start Num: 21
Candidate Starts for ForesterFrank_51:
(19, 36600), (Start: 21 @36570 has 4 MA's), (34, 36477), (37, 36465),

Gene: Gail_56 Start: 36974, Stop: 36771, Start Num: 25
Candidate Starts for Gail_56:
(Start: 25 @36974 has 158 MA's), (27, 36956), (28, 36953), (43, 36788),

Gene: GaugeLDP_50 Start: 36223, Stop: 36020, Start Num: 25
Candidate Starts for GaugeLDP_50:
(9, 36457), (11, 36445), (Start: 25 @36223 has 158 MA's), (36, 36121), (39, 36088),

Gene: Georgie2_53 Start: 35927, Stop: 35724, Start Num: 20
Candidate Starts for Georgie2_53:
(9, 36152), (13, 36113), (Start: 20 @35927 has 19 MA's), (34, 35834), (43, 35741),

Gene: Gratitude_53 Start: 36195, Stop: 35992, Start Num: 25
Candidate Starts for Gratitude_53:
(Start: 25 @36195 has 158 MA's), (36, 36093), (40, 36042), (45, 36003),

Gene: HINdeR_37 Start: 30215, Stop: 30078, Start Num: 30
Candidate Starts for HINdeR_37:
(Start: 30 @30215 has 1 MA's), (39, 30143), (43, 30092), (44, 30089),

Gene: Hanray_52 Start: 35926, Stop: 35723, Start Num: 25
Candidate Starts for Hanray_52:
(Start: 25 @35926 has 158 MA's), (36, 35824), (38, 35803),

Gene: HarryHoudini_53 Start: 36381, Stop: 36178, Start Num: 25
Candidate Starts for HarryHoudini_53:
(Start: 25 @36381 has 158 MA's), (36, 36279), (40, 36228), (45, 36189),

Gene: Heffalump_51 Start: 36700, Stop: 36497, Start Num: 20
Candidate Starts for Heffalump_51:
(Start: 20 @36700 has 19 MA's), (34, 36607),

Gene: HippoHollow_52 Start: 37460, Stop: 37257, Start Num: 25
Candidate Starts for HippoHollow_52:
(Start: 25 @37460 has 158 MA's), (34, 37367),

Gene: Holex_52 Start: 35942, Stop: 35739, Start Num: 25
Candidate Starts for Holex_52:
(Start: 25 @35942 has 158 MA's), (36, 35840), (38, 35819),

Gene: HortumSL17_52 Start: 35873, Stop: 35670, Start Num: 25
Candidate Starts for HortumSL17_52:
(Start: 25 @35873 has 158 MA's), (36, 35771), (38, 35750),

Gene: IronMan_52 Start: 37053, Stop: 36856, Start Num: 25
Candidate Starts for IronMan_52:
(Start: 25 @37053 has 158 MA's), (37, 36948),

Gene: Iwokeuplikedis_55 Start: 36010, Stop: 35807, Start Num: 25
Candidate Starts for Iwokeuplikedis_55:
(Start: 25 @36010 has 158 MA's), (34, 35917),

Gene: JSwag_56 Start: 34831, Stop: 34640, Start Num: 24
Candidate Starts for JSwag_56:
(Start: 24 @34831 has 8 MA's), (39, 34708),

Gene: Jaan_52 Start: 37225, Stop: 37028, Start Num: 25

Candidate Starts for Jaan_52:
(Start: 25 @37225 has 158 MA's), (37, 37120),

Gene: Jeeves_56 Start: 35746, Stop: 35543, Start Num: 25
Candidate Starts for Jeeves_56:
(1, 36253), (2, 36247), (3, 36127), (Start: 25 @35746 has 158 MA's), (28, 35725),

Gene: Jerm_54 Start: 36464, Stop: 36261, Start Num: 25
Candidate Starts for Jerm_54:
(9, 36698), (10, 36695), (13, 36659), (Start: 25 @36464 has 158 MA's), (34, 36371),

Gene: Jiawan_52 Start: 35958, Stop: 35755, Start Num: 25
Candidate Starts for Jiawan_52:
(Start: 25 @35958 has 158 MA's), (36, 35856), (38, 35835),

Gene: JoshKayV_54 Start: 36567, Stop: 36364, Start Num: 20
Candidate Starts for JoshKayV_54:
(Start: 20 @36567 has 19 MA's), (34, 36474),

Gene: Journey13_46 Start: 34280, Stop: 34077, Start Num: 25
Candidate Starts for Journey13_46:
(Start: 25 @34280 has 158 MA's), (34, 34187), (36, 34178),

Gene: Jsquared_50 Start: 34885, Stop: 34682, Start Num: 25
Candidate Starts for Jsquared_50:
(19, 34921), (Start: 25 @34885 has 158 MA's), (37, 34780),

Gene: Kalpine_50 Start: 36165, Stop: 35974, Start Num: 20
Candidate Starts for Kalpine_50:
(19, 36192), (Start: 20 @36165 has 19 MA's), (34, 36072), (42, 36000), (43, 35991),

Gene: KatherineG_58 Start: 35369, Stop: 35178, Start Num: 25
Candidate Starts for KatherineG_58:
(Start: 25 @35369 has 158 MA's), (39, 35246),

Gene: Kerberos_54 Start: 35758, Stop: 35561, Start Num: 25
Candidate Starts for Kerberos_54:
(Start: 25 @35758 has 158 MA's),

Gene: Keziacharles14_52 Start: 36997, Stop: 36794, Start Num: 25
Candidate Starts for Keziacharles14_52:
(Start: 25 @36997 has 158 MA's), (34, 36904), (39, 36862), (43, 36811),

Gene: KingCyrus_54 Start: 37663, Stop: 37460, Start Num: 25
Candidate Starts for KingCyrus_54:
(Start: 25 @37663 has 158 MA's), (37, 37558), (43, 37477),

Gene: Koduck_53 Start: 35170, Stop: 34967, Start Num: 25
Candidate Starts for Koduck_53:
(19, 35206), (Start: 25 @35170 has 158 MA's), (32, 35101), (37, 35065),

Gene: L5_51 Start: 35245, Stop: 35042, Start Num: 25
Candidate Starts for L5_51:

(19, 35281), (Start: 25 @35245 has 158 MA's), (32, 35176), (37, 35140),

Gene: LadyBird_57 Start: 36796, Stop: 36593, Start Num: 25
Candidate Starts for LadyBird_57:
(Start: 25 @36796 has 158 MA's), (34, 36703),

Gene: Landor_52 Start: 37131, Stop: 36934, Start Num: 25
Candidate Starts for Landor_52:
(Start: 25 @37131 has 158 MA's), (37, 37026),

Gene: Larenn_51 Start: 36058, Stop: 35855, Start Num: 25
Candidate Starts for Larenn_51:
(Start: 25 @36058 has 158 MA's), (27, 36040), (36, 35956), (40, 35905),

Gene: LastResort_56 Start: 34883, Stop: 34692, Start Num: 24
Candidate Starts for LastResort_56:
(Start: 24 @34883 has 8 MA's), (39, 34760),

Gene: Leogania_52 Start: 37103, Stop: 36900, Start Num: 25
Candidate Starts for Leogania_52:
(Start: 25 @37103 has 158 MA's), (34, 37010), (43, 36917),

Gene: Leviathan_54 Start: 36521, Stop: 36318, Start Num: 25
Candidate Starts for Leviathan_54:
(9, 36755), (10, 36752), (13, 36716), (Start: 25 @36521 has 158 MA's), (34, 36428),

Gene: LilTurb_53 Start: 36345, Stop: 36142, Start Num: 25
Candidate Starts for LilTurb_53:
(9, 36579), (10, 36576), (13, 36540), (Start: 25 @36345 has 158 MA's), (34, 36252),

Gene: Lilleskat_52 Start: 35875, Stop: 35672, Start Num: 25
Candidate Starts for Lilleskat_52:
(Start: 25 @35875 has 158 MA's), (36, 35773), (38, 35752),

Gene: LionsBait_52 Start: 37461, Stop: 37258, Start Num: 25
Candidate Starts for LionsBait_52:
(Start: 25 @37461 has 158 MA's), (34, 37368),

Gene: LogiBear_55 Start: 34834, Stop: 34622, Start Num: 22
Candidate Starts for LogiBear_55:
(22, 34834), (34, 34720),

Gene: Lokk_49 Start: 35288, Stop: 35085, Start Num: 25
Candidate Starts for Lokk_49:
(Start: 25 @35288 has 158 MA's), (34, 35195), (43, 35102),

Gene: LoneWolf_53 Start: 35913, Stop: 35710, Start Num: 25
Candidate Starts for LoneWolf_53:
(Start: 25 @35913 has 158 MA's), (34, 35820), (39, 35778),

Gene: Looper_57 Start: 34860, Stop: 34669, Start Num: 25
Candidate Starts for Looper_57:
(Start: 25 @34860 has 158 MA's), (39, 34737),

Gene: Loser_54 Start: 36918, Stop: 36712, Start Num: 25
Candidate Starts for Loser_54:
(Start: 25 @36918 has 158 MA's), (34, 36825), (39, 36783),

Gene: Luchador_56 Start: 37531, Stop: 37328, Start Num: 25
Candidate Starts for Luchador_56:
(5, 37852), (Start: 25 @37531 has 158 MA's), (28, 37510), (36, 37429),

Gene: Lucyedi_53 Start: 35727, Stop: 35533, Start Num: 25
Candidate Starts for Lucyedi_53:
(17, 35796), (Start: 25 @35727 has 158 MA's), (29, 35703),

Gene: MajorMajor_51 Start: 34916, Stop: 34713, Start Num: 25
Candidate Starts for MajorMajor_51:
(19, 34952), (Start: 25 @34916 has 158 MA's), (37, 34811),

Gene: Malec_52 Start: 36625, Stop: 36422, Start Num: 25
Candidate Starts for Malec_52:
(Start: 25 @36625 has 158 MA's), (27, 36607), (36, 36523), (40, 36472),

Gene: Maminiaina_51 Start: 35668, Stop: 35477, Start Num: 25
Candidate Starts for Maminiaina_51:
(Start: 25 @35668 has 158 MA's),

Gene: MegTheThird_51 Start: 35525, Stop: 35322, Start Num: 25
Candidate Starts for MegTheThird_51:
(Start: 25 @35525 has 158 MA's), (31, 35465), (34, 35432),

Gene: MiculUcigas_52 Start: 35857, Stop: 35654, Start Num: 25
Candidate Starts for MiculUcigas_52:
(Start: 25 @35857 has 158 MA's), (36, 35755), (40, 35704), (45, 35665),

Gene: Miko_49 Start: 36066, Stop: 35863, Start Num: 25
Candidate Starts for Miko_49:
(Start: 25 @36066 has 158 MA's), (34, 35973), (43, 35880),

Gene: MinecraftSteve_58 Start: 35169, Stop: 34978, Start Num: 25
Candidate Starts for MinecraftSteve_58:
(Start: 25 @35169 has 158 MA's), (39, 35046),

Gene: Minispark_51 Start: 35436, Stop: 35233, Start Num: 25
Candidate Starts for Minispark_51:
(Start: 25 @35436 has 158 MA's), (33, 35346),

Gene: MissWhite_51 Start: 34431, Stop: 34228, Start Num: 25
Candidate Starts for MissWhite_51:
(Start: 25 @34431 has 158 MA's), (34, 34338), (39, 34296), (43, 34245),

Gene: Myxus_52 Start: 35873, Stop: 35670, Start Num: 25
Candidate Starts for Myxus_52:
(Start: 25 @35873 has 158 MA's), (36, 35771), (38, 35750),

Gene: NaSiaTalie_52 Start: 35951, Stop: 35748, Start Num: 25
Candidate Starts for NaSiaTalie_52:
(Start: 25 @35951 has 158 MA's), (36, 35849), (40, 35798), (45, 35759),

Gene: Naji_54 Start: 35759, Stop: 35562, Start Num: 25
Candidate Starts for Naji_54:
(Start: 25 @35759 has 158 MA's),

Gene: Nebulosus_56 Start: 34879, Stop: 34688, Start Num: 24
Candidate Starts for Nebulosus_56:
(Start: 24 @34879 has 8 MA's), (39, 34756),

Gene: Nedarya_52 Start: 34325, Stop: 34134, Start Num: 25
Candidate Starts for Nedarya_52:
(Start: 25 @34325 has 158 MA's), (39, 34202),

Gene: NicoleTera_51 Start: 36222, Stop: 36016, Start Num: 25
Candidate Starts for NicoleTera_51:
(19, 36282), (Start: 25 @36222 has 158 MA's), (34, 36129),

Gene: NothingSpecial_50 Start: 36473, Stop: 36276, Start Num: 25
Candidate Starts for NothingSpecial_50:
(Start: 25 @36473 has 158 MA's), (32, 36404), (37, 36368),

Gene: Onglai_51 Start: 34214, Stop: 34011, Start Num: 25
Candidate Starts for Onglai_51:
(Start: 25 @34214 has 158 MA's), (36, 34112), (38, 34091),

Gene: Oofda_57 Start: 35001, Stop: 34810, Start Num: 25
Candidate Starts for Oofda_57:
(Start: 25 @35001 has 158 MA's), (39, 34878),

Gene: PackMan_51 Start: 35873, Stop: 35670, Start Num: 25
Candidate Starts for PackMan_51:
(Start: 25 @35873 has 158 MA's), (36, 35771), (38, 35750),

Gene: PainterBoy_53 Start: 35664, Stop: 35470, Start Num: 25
Candidate Starts for PainterBoy_53:
(17, 35733), (Start: 25 @35664 has 158 MA's), (29, 35640),

Gene: Phaded_53 Start: 37110, Stop: 36913, Start Num: 25
Candidate Starts for Phaded_53:
(Start: 25 @37110 has 158 MA's), (37, 37005),

Gene: Phaeder_52 Start: 35873, Stop: 35670, Start Num: 25
Candidate Starts for Phaeder_52:
(Start: 25 @35873 has 158 MA's), (36, 35771), (38, 35750),

Gene: Pharaoh_47 Start: 35694, Stop: 35491, Start Num: 25
Candidate Starts for Pharaoh_47:
(Start: 25 @35694 has 158 MA's), (36, 35592),

Gene: Phonnegut_52 Start: 35970, Stop: 35767, Start Num: 25

Candidate Starts for Phonnegut_52:
(Start: 25 @35970 has 158 MA's), (36, 35868), (38, 35847),

Gene: Pioneer_52 Start: 35970, Stop: 35767, Start Num: 25
Candidate Starts for Pioneer_52:
(Start: 25 @35970 has 158 MA's), (36, 35868), (38, 35847),

Gene: Piro94_52 Start: 36298, Stop: 36095, Start Num: 25
Candidate Starts for Piro94_52:
(Start: 25 @36298 has 158 MA's), (36, 36196), (40, 36145), (45, 36106),

Gene: Pomar16_54 Start: 35799, Stop: 35602, Start Num: 25
Candidate Starts for Pomar16_54:
(Start: 25 @35799 has 158 MA's),

Gene: Power_51 Start: 35935, Stop: 35732, Start Num: 20
Candidate Starts for Power_51:
(9, 36160), (13, 36121), (Start: 20 @35935 has 19 MA's), (34, 35842), (43, 35749),

Gene: Priya_52 Start: 35940, Stop: 35737, Start Num: 25
Candidate Starts for Priya_52:
(Start: 25 @35940 has 158 MA's), (36, 35838), (38, 35817),

Gene: Prudy_52 Start: 36673, Stop: 36467, Start Num: 25
Candidate Starts for Prudy_52:
(8, 36919), (Start: 25 @36673 has 158 MA's), (34, 36580), (37, 36568),

Gene: Pukovnik_51 Start: 36758, Stop: 36555, Start Num: 25
Candidate Starts for Pukovnik_51:
(Start: 25 @36758 has 158 MA's), (34, 36665),

Gene: Qobbit_52 Start: 35902, Stop: 35699, Start Num: 25
Candidate Starts for Qobbit_52:
(Start: 25 @35902 has 158 MA's), (36, 35800), (38, 35779),

Gene: QueenB2_51 Start: 35913, Stop: 35710, Start Num: 25
Candidate Starts for QueenB2_51:
(Start: 25 @35913 has 158 MA's), (37, 35808),

Gene: QueenBeesly_52 Start: 35882, Stop: 35679, Start Num: 20
Candidate Starts for QueenBeesly_52:
(9, 36107), (13, 36068), (Start: 20 @35882 has 19 MA's), (34, 35789), (43, 35696),

Gene: Quokka_50 Start: 34916, Stop: 34713, Start Num: 25
Candidate Starts for Quokka_50:
(19, 34952), (Start: 25 @34916 has 158 MA's), (37, 34811),

Gene: Rachaly_51 Start: 36211, Stop: 36008, Start Num: 25
Candidate Starts for Rachaly_51:
(Start: 25 @36211 has 158 MA's), (34, 36118), (43, 36025),

Gene: Rahalelujah_52 Start: 35451, Stop: 35248, Start Num: 25
Candidate Starts for Rahalelujah_52:

(Start: 25 @35451 has 158 MA's), (33, 35361),

Gene: Ravana_59 Start: 35693, Stop: 35502, Start Num: 25
Candidate Starts for Ravana_59:
(16, 35846), (Start: 25 @35693 has 158 MA's), (39, 35570),

Gene: ReMo_56 Start: 34880, Stop: 34689, Start Num: 24
Candidate Starts for ReMo_56:
(Start: 24 @34880 has 8 MA's), (39, 34757),

Gene: RedRock_54 Start: 37127, Stop: 36924, Start Num: 25
Candidate Starts for RedRock_54:
(14, 37322), (Start: 25 @37127 has 158 MA's), (34, 37034), (39, 36992), (43, 36941),

Gene: Remus_57 Start: 34790, Stop: 34599, Start Num: 25
Candidate Starts for Remus_57:
(Start: 25 @34790 has 158 MA's), (39, 34667),

Gene: Retro23_53 Start: 36313, Stop: 36110, Start Num: 20
Candidate Starts for Retro23_53:
(Start: 20 @36313 has 19 MA's), (34, 36220),

Gene: Rosalind_56 Start: 35088, Stop: 34897, Start Num: 25
Candidate Starts for Rosalind_56:
(Start: 25 @35088 has 158 MA's), (39, 34965),

Gene: RyeScarlet_52 Start: 35945, Stop: 35742, Start Num: 25
Candidate Starts for RyeScarlet_52:
(Start: 25 @35945 has 158 MA's), (36, 35843), (38, 35822),

Gene: Sachima_52 Start: 35855, Stop: 35652, Start Num: 25
Candidate Starts for Sachima_52:
(Start: 25 @35855 has 158 MA's), (36, 35753), (38, 35732),

Gene: Scherzo_52 Start: 36159, Stop: 35956, Start Num: 25
Candidate Starts for Scherzo_52:
(Start: 25 @36159 has 158 MA's), (36, 36057), (38, 36036),

Gene: SemperFi_53 Start: 36150, Stop: 35947, Start Num: 20
Candidate Starts for SemperFi_53:
(9, 36375), (13, 36336), (Start: 20 @36150 has 19 MA's), (34, 36057), (43, 35964),

Gene: Serenity_52 Start: 35106, Stop: 34903, Start Num: 25
Candidate Starts for Serenity_52:
(19, 35142), (Start: 25 @35106 has 158 MA's), (37, 35001),

Gene: ShayRa_58 Start: 35132, Stop: 34941, Start Num: 25
Candidate Starts for ShayRa_58:
(Start: 25 @35132 has 158 MA's), (39, 35009),

Gene: Sheen_39 Start: 30417, Stop: 30229, Start Num: 25
Candidate Starts for Sheen_39:
(Start: 25 @30417 has 158 MA's), (39, 30294), (41, 30270), (43, 30243), (44, 30240),

Gene: Sknot_52 Start: 35954, Stop: 35751, Start Num: 25
Candidate Starts for Sknot_52:
(Start: 25 @35954 has 158 MA's), (36, 35852), (40, 35801), (45, 35762),

Gene: Smeagan_55 Start: 36608, Stop: 36405, Start Num: 25
Candidate Starts for Smeagan_55:
(9, 36842), (10, 36839), (13, 36803), (Start: 25 @36608 has 158 MA's), (32, 36539), (34, 36515),

Gene: SnapTap_52 Start: 35961, Stop: 35758, Start Num: 20
Candidate Starts for SnapTap_52:
(9, 36186), (13, 36147), (Start: 20 @35961 has 19 MA's), (34, 35868), (43, 35775),

Gene: SororFago_54 Start: 36861, Stop: 36658, Start Num: 25
Candidate Starts for SororFago_54:
(Start: 25 @36861 has 158 MA's), (28, 36840),

Gene: Soups_58 Start: 35371, Stop: 35180, Start Num: 25
Candidate Starts for Soups_58:
(Start: 25 @35371 has 158 MA's), (39, 35248),

Gene: Spouty_52 Start: 35939, Stop: 35736, Start Num: 25
Candidate Starts for Spouty_52:
(Start: 25 @35939 has 158 MA's), (36, 35837), (38, 35816),

Gene: StarStuff_54 Start: 35761, Stop: 35564, Start Num: 25
Candidate Starts for StarStuff_54:
(Start: 25 @35761 has 158 MA's),

Gene: Steamy_48 Start: 35429, Stop: 35226, Start Num: 25
Candidate Starts for Steamy_48:
(Start: 25 @35429 has 158 MA's),

Gene: Stellammi_126 Start: 60535, Stop: 60750, Start Num: 23
Candidate Starts for Stellammi_126:
(18, 60499), (Start: 23 @60535 has 1 MA's), (26, 60547), (35, 60646), (39, 60685),

Gene: Strosahl_57 Start: 34790, Stop: 34599, Start Num: 25
Candidate Starts for Strosahl_57:
(Start: 25 @34790 has 158 MA's), (39, 34667),

Gene: Sunhee_55 Start: 35282, Stop: 35079, Start Num: 25
Candidate Starts for Sunhee_55:
(Start: 25 @35282 has 158 MA's), (27, 35264), (29, 35258),

Gene: SweetiePie_52 Start: 36093, Stop: 35890, Start Num: 20
Candidate Starts for SweetiePie_52:
(9, 36318), (13, 36279), (Start: 20 @36093 has 19 MA's), (34, 36000), (43, 35907),

Gene: Switzerland_57 Start: 35271, Stop: 35080, Start Num: 25
Candidate Starts for Switzerland_57:
(Start: 25 @35271 has 158 MA's), (39, 35148),

Gene: TarsusIV_51 Start: 35933, Stop: 35730, Start Num: 25
Candidate Starts for TarsusIV_51:
(Start: 25 @35933 has 158 MA's), (37, 35828),

Gene: Terrific_53 Start: 36308, Stop: 36105, Start Num: 25
Candidate Starts for Terrific_53:
(Start: 25 @36308 has 158 MA's), (36, 36206), (40, 36155), (45, 36116),

Gene: Timshel_38 Start: 30511, Stop: 30323, Start Num: 25
Candidate Starts for Timshel_38:
(Start: 25 @30511 has 158 MA's), (39, 30388), (43, 30337),

Gene: TipsytheTRex_48 Start: 35176, Stop: 34973, Start Num: 25
Candidate Starts for TipsytheTRex_48:
(19, 35212), (Start: 25 @35176 has 158 MA's), (37, 35071),

Gene: Toaka_52 Start: 35764, Stop: 35561, Start Num: 25
Candidate Starts for Toaka_52:
(Start: 25 @35764 has 158 MA's), (36, 35662), (38, 35641), (39, 35629),

Gene: Tomathan_54 Start: 35758, Stop: 35561, Start Num: 25
Candidate Starts for Tomathan_54:
(Start: 25 @35758 has 158 MA's),

Gene: Toro_39 Start: 30344, Stop: 30156, Start Num: 25
Candidate Starts for Toro_39:
(Start: 25 @30344 has 158 MA's), (39, 30221), (41, 30197), (43, 30170), (44, 30167),

Gene: Travvers_54 Start: 35758, Stop: 35561, Start Num: 25
Candidate Starts for Travvers_54:
(Start: 25 @35758 has 158 MA's),

Gene: Tristan_51 Start: 36944, Stop: 36747, Start Num: 25
Candidate Starts for Tristan_51:
(Start: 25 @36944 has 158 MA's), (37, 36839),

Gene: Trixie_50 Start: 36033, Stop: 35842, Start Num: 20
Candidate Starts for Trixie_50:
(19, 36060), (Start: 20 @36033 has 19 MA's), (34, 35940), (36, 35931), (42, 35868),

Gene: Trooper_53 Start: 36313, Stop: 36110, Start Num: 25
Candidate Starts for Trooper_53:
(Start: 25 @36313 has 158 MA's), (34, 36220),

Gene: Tubs_52 Start: 35873, Stop: 35670, Start Num: 25
Candidate Starts for Tubs_52:
(Start: 25 @35873 has 158 MA's), (36, 35771), (38, 35750),

Gene: Turbido_53 Start: 36342, Stop: 36139, Start Num: 25
Candidate Starts for Turbido_53:
(9, 36576), (10, 36573), (13, 36537), (Start: 25 @36342 has 158 MA's), (34, 36249),

Gene: Ugenie5_49 Start: 36158, Stop: 35955, Start Num: 25

Candidate Starts for Ugenie5_49:
(Start: 25 @36158 has 158 MA's), (36, 36056), (38, 36035),

Gene: Updawg_53 Start: 36195, Stop: 35992, Start Num: 25
Candidate Starts for Updawg_53:
(Start: 25 @36195 has 158 MA's), (36, 36093), (40, 36042), (45, 36003),

Gene: VA6_53 Start: 36330, Stop: 36127, Start Num: 25
Candidate Starts for VA6_53:
(Start: 25 @36330 has 158 MA's), (36, 36228), (40, 36177),

Gene: VC3_55 Start: 36177, Stop: 35980, Start Num: 25
Candidate Starts for VC3_55:
(Start: 25 @36177 has 158 MA's),

Gene: Vanisoa_52 Start: 36794, Stop: 36591, Start Num: 25
Candidate Starts for Vanisoa_52:
(Start: 25 @36794 has 158 MA's), (33, 36704), (43, 36608),

Gene: Waits_57 Start: 34992, Stop: 34801, Start Num: 25
Candidate Starts for Waits_57:
(Start: 25 @34992 has 158 MA's), (39, 34869),

Gene: Warrior24_59 Start: 35456, Stop: 35265, Start Num: 25
Candidate Starts for Warrior24_59:
(Start: 25 @35456 has 158 MA's), (39, 35333),

Gene: WeiHuaDA_52 Start: 36838, Stop: 36647, Start Num: 20
Candidate Starts for WeiHuaDA_52:
(19, 36865), (Start: 20 @36838 has 19 MA's), (34, 36745), (42, 36673), (43, 36664),

Gene: Whabigail7_53 Start: 36327, Stop: 36124, Start Num: 25
Candidate Starts for Whabigail7_53:
(9, 36561), (10, 36558), (13, 36522), (Start: 25 @36327 has 158 MA's), (34, 36234),

Gene: WideWale_53 Start: 36195, Stop: 35992, Start Num: 25
Candidate Starts for WideWale_53:
(Start: 25 @36195 has 158 MA's), (36, 36093), (40, 36042), (45, 36003),

Gene: WorldCup_51 Start: 35445, Stop: 35242, Start Num: 25
Candidate Starts for WorldCup_51:
(Start: 25 @35445 has 158 MA's), (33, 35355),

Gene: XianYue_51 Start: 35699, Stop: 35502, Start Num: 25
Candidate Starts for XianYue_51:
(Start: 25 @35699 has 158 MA's), (34, 35606), (37, 35594),

Gene: Yecey3_53 Start: 35450, Stop: 35247, Start Num: 25
Candidate Starts for Yecey3_53:
(Start: 25 @35450 has 158 MA's), (31, 35390), (34, 35357), (39, 35315),

Gene: Zimmer_49 Start: 36619, Stop: 36413, Start Num: 25
Candidate Starts for Zimmer_49:

(Start: 25 @36619 has 158 MA's), (34, 36526),