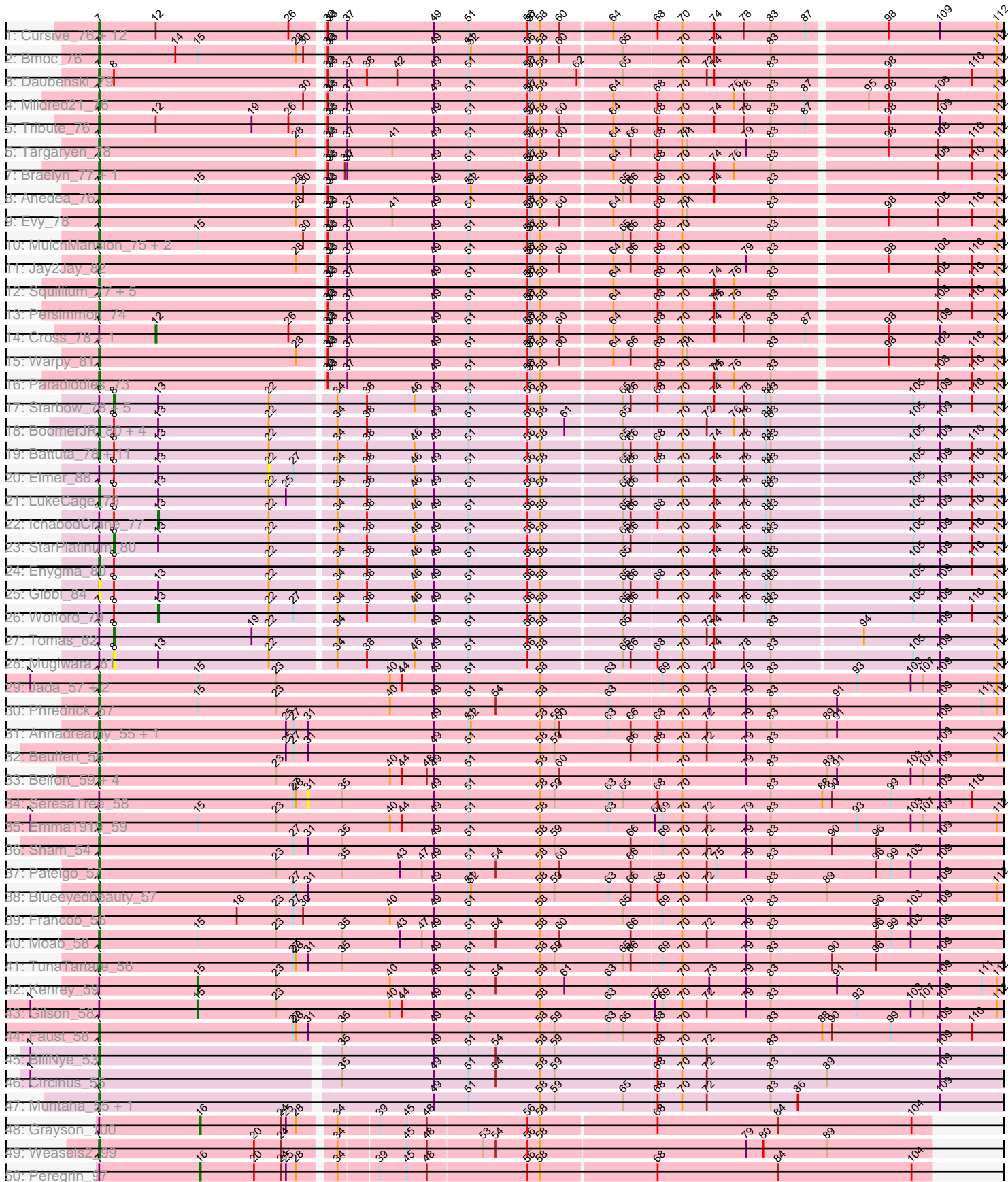
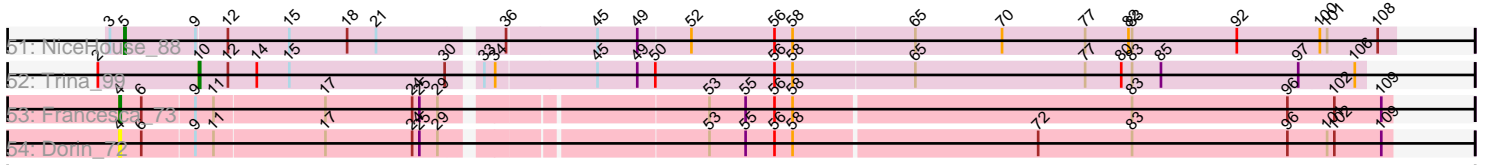


Pham 171349



Pham 171349



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 171349 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171349 has 103 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Cursive_76, EGole_79, HangryHippo_80, Watermoore_78, PacManQ_79, BlueOtter_80, Larnav_83, Leo04_79, Teutsch_78, Lululemon_79, Samisti12_78, Pepperwood_78, Sushi23_77
- Track 2 : Bmoc_76
- Track 3 : Daubenski_79
- Track 4 : Mildred21_76
- Track 5 : Tribute_76
- Track 6 : Targaryen_78
- Track 7 : Braelyn_77, Navo_75
- Track 8 : Anedea_76
- Track 9 : Evy_78
- Track 10 : MulchMansion_75, LilMartin_75, Angela_74
- Track 11 : Jay2Jay_82
- Track 12 : Squillium_77, NootNoot_73, WhereRU_76, Bartholomune_76, Liandry_76, PinkiePie_76
- Track 13 : Persimmon_74
- Track 14 : Cross_78, Peebs_77
- Track 15 : Warpy_81
- Track 16 : Paradiddles_73
- Track 17 : Starbow_78, CeilingFan_82, KentuckyRacer_83, Amabiko_80, Jollison_84, Wipeout_77
- Track 18 : BoomerJR_80, Stanimal_80, Sollertia_80, Genie2_80, Yaboi_80
- Track 19 : Battuta_78, Birchlyn_77, Quarant19_79, Bordeaux_78, Spelly_80, TomSawyer_78, Karimac_79, Spilled_81, JimJam_80, PumpkinSpice_79, SaltySpittoon_79, MindFlayer_77
- Track 20 : Elmer_88
- Track 21 : LukeCage_79
- Track 22 : IchabodCrane_77
- Track 23 : StarPlatinum_80
- Track 24 : Enygma_80
- Track 25 : Gibbi_84
- Track 26 : Wofford_79
- Track 27 : Tomas_82
- Track 28 : Mugiwara_81
- Track 29 : Jada_57, MeganTheeKilla_56, Forrest_59
- Track 30 : Phredrick_57
- Track 31 : Annadreamy_55, Limpid_55

- Track 32 : Beuffert_55
- Track 33 : Belfort_59, Comrade_58, Karp_56, SparkleGoddess_58, Stigma_57
- Track 34 : SeresaTree_58
- Track 35 : Emma1919_59
- Track 36 : Sham_54
- Track 37 : Patelgo_57
- Track 38 : Blueeyedbeauty_57
- Track 39 : Francob_56
- Track 40 : Moab_58
- Track 41 : TunaTartare_56
- Track 42 : Kenrey_59
- Track 43 : Gilson_58
- Track 44 : Faust_58
- Track 45 : BillNye_53
- Track 46 : Circinus_55
- Track 47 : Muntaha_55, Wakanda_54
- Track 48 : Grayson_100
- Track 49 : Weasels2_99
- Track 50 : Peregrin_97
- Track 51 : NiceHouse_88
- Track 52 : Trina_99
- Track 53 : Francesca_73
- Track 54 : Dorin_72

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

The start number called the most often in the published annotations is 7, it was called in 73 of the 89 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Anedea_76, Angela_74, Annadreamy_55, Bartholomune_76, Battuta_78, Belfort_59, Beuffert_55, BillNye_53, Birchlyn_77, BlueOtter_80, Blueeyedbeauty_57, Bmoc_76, BoomerJR_80, Bordeaux_78, Braelyn_77, Circinus_55, Comrade_58, Cursive_76, Daubenski_79, EGole_79, Emma1919_59, Enygma_80, Evy_78, Faust_58, Forrest_59, Francob_56, Genie2_80, Gibbi_84, HangryHippo_80, Jada_57, Jay2Jay_82, JimJam_80, Karimac_79, Karp_56, Larnav_83, Leo04_79, Liandry_76, LilMartin_75, Limpid_55, LukeCage_79, Lululemon_79, MeganTheeKilla_56, Mildred21_76, MindFlayer_77, Moab_58, MulchMansion_75, Muntaha_55, Navo_75, NootNoot_73, PacManQ_79, Paradiddles_73, Patelgo_57, Pepperwood_78, Persimmon_74, Phredrick_57, PinkiePie_76, PumpkinSpice_79, Quarant19_79, SaltySpittoon_79, Samisti12_78, Sham_54, Sollertia_80, SparkleGoddess_58, Spelly_80, Spilled_81, Squillium_77, Stanimal_80, Stigma_57, Sushi23_77, Targaryen_78, Teutsch_78, TomSawyer_78, Tribute_76, TunaTartare_56, Wakanda_54, Warpy_81, Watermoore_78, Weasels2_99, WhereRU_76, Yaboi_80,

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

• Amabiko_80, CeilingFan_82, Cross_78, Elmer_88, Gilson_58, Grayson_100, IchabodCrane_77, Jollison_84, Kenrey_59, KentuckyRacer_83, Mugiwara_81, Peebs_77, Peregrin_97, SeresaTree_58, StarPlatinum_80, Starbow_78, Tomas_82,

Wipeout_77, Wofford_79,

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

- Dorin_72, Francesca_73, NiceHouse_88, Trina_99,

Summary by start number:

Start 4:

- Found in 2 of 103 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 89
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorin_72 (CG), Francesca_73 (CG),

Start 5:

- Found in 1 of 103 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 89
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse_88 (CE),

Start 7:

- Found in 99 of 103 (96.1%) of genes in pham
- Manual Annotations of this start: 73 of 89
- Called 80.8% of time when present
- Phage (with cluster) where this start called: Anedea_76 (BE1), Angela_74 (BE1), Annadreamy_55 (BK1), Bartholomune_76 (BE1), Battuta_78 (BE2), Belfort_59 (BK1), Beuffert_55 (BK1), BillNye_53 (BK2), Birchlyn_77 (BE2), BlueOtter_80 (BE1), Blueeyedbeauty_57 (BK1), Bmoc_76 (BE1), BoomerJR_80 (BE2), Bordeaux_78 (BE2), Braelyn_77 (BE1), Circinus_55 (BK2), Comrade_58 (BK1), Cursive_76 (BE1), Daubenski_79 (BE1), EGole_79 (BE1), Emma1919_59 (BK1), Enygma_80 (BE2), Evy_78 (BE1), Faust_58 (BK1), Forrest_59 (BK1), Francob_56 (BK1), Genie2_80 (BE2), Gibbi_84 (BE2), HangryHippo_80 (BE1), Jada_57 (BK1), Jay2Jay_82 (BE1), JimJam_80 (BE2), Karimac_79 (BE2), Karp_56 (BK1), Larnav_83 (BE1), Leo04_79 (BE1), Liandry_76 (BE1), LilMartin_75 (BE1), Limpid_55 (BK1), LukeCage_79 (BE2), Lululemon_79 (BE1), MeganTheeKilla_56 (BK1), Mildred21_76 (BE1), MindFlayer_77 (BE2), Moab_58 (BK1), MulchMansion_75 (BE1), Muntaha_55 (BK2), Navo_75 (BE1), NootNoot_73 (BE1), PacManQ_79 (BE1), Paradiddles_73 (BE1), Patelgo_57 (BK1), Pepperwood_78 (BE1), Persimmon_74 (BE1), Phredrick_57 (BK1), PinkiePie_76 (BE1), PumpkinSpice_79 (BE2), Quarant19_79 (BE2), SaltySpittoon_79 (BE2), Samisti12_78 (BE1), Sham_54 (BK1), Sollertia_80 (BE2), SparkleGoddess_58 (BK1), Spelly_80 (BE2), Spilled_81 (BE2), Squillium_77 (BE1), Stanimal_80 (BE2), Stigma_57 (BK1), Sushi23_77 (BE1), Targaryen_78 (BE1), Teutsch_78 (BE1), TomSawyer_78 (BE2), Tribute_76 (BE1), TunaTartare_56 (BK1), Wakanda_54 (BK2), Warpy_81 (BE1), Watermoore_78 (BE1), Weasels2_99 (CB), WhereRU_76 (BE1), Yaboi_80 (BE2),

Start 8:

- Found in 33 of 103 (32.0%) of genes in pham
- Manual Annotations of this start: 5 of 89
- Called 27.3% of time when present
- Phage (with cluster) where this start called: Amabiko_80 (BE2), CeilingFan_82 (BE2), Jollison_84 (BE2), KentuckyRacer_83 (BE2), Mugiwara_81 (BE2), StarPlatinum_80 (BE2), Starbow_78 (BE2), Tomas_82 (BE2), Wipeout_77 (BE2),

Start 10:

- Found in 1 of 103 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 89
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trina_99 (CE),

Start 12:

- Found in 18 of 103 (17.5%) of genes in pham
- Manual Annotations of this start: 2 of 89
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Cross_78 (BE1), Peebs_77 (BE1),

Start 13:

- Found in 30 of 103 (29.1%) of genes in pham
- Manual Annotations of this start: 2 of 89
- Called 6.7% of time when present
- Phage (with cluster) where this start called: IchabodCrane_77 (BE2), Wofford_79 (BE2),

Start 15:

- Found in 15 of 103 (14.6%) of genes in pham
- Manual Annotations of this start: 2 of 89
- Called 13.3% of time when present
- Phage (with cluster) where this start called: Gilson_58 (BK1), Kenrey_59 (BK1),

Start 16:

- Found in 2 of 103 (1.9%) of genes in pham
- Manual Annotations of this start: 2 of 89
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_100 (CB), Peregrin_97 (CB),

Start 22:

- Found in 32 of 103 (31.1%) of genes in pham
- No Manual Annotations of this start.
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Elmer_88 (BE2),

Start 31:

- Found in 8 of 103 (7.8%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: SeresaTree_58 (BK1),

Summary by clusters:

There are 7 clusters represented in this pham: CB, CG, CE, BK1, BK2, BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 7 was manually annotated 29 times for cluster BE1.
- Start number 12 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 7 was manually annotated 19 times for cluster BE2.

- Start number 8 was manually annotated 5 times for cluster BE2.
- Start number 13 was manually annotated 2 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 7 was manually annotated 20 times for cluster BK1.
- Start number 15 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 7 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster CB:

- Start number 7 was manually annotated 1 time for cluster CB.
- Start number 16 was manually annotated 2 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 5 was manually annotated 1 time for cluster CE.
- Start number 10 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:

- Start number 4 was manually annotated 1 time for cluster CG.

Gene Information:

Gene: Amabiko_80 Start: 56400, Stop: 57458, Start Num: 8

Candidate Starts for Amabiko_80:

(Start: 7 @56382 has 73 MA's), (Start: 8 @56400 has 5 MA's), (Start: 13 @56454 has 2 MA's), (22, 56589), (34, 56664), (38, 56700), (46, 56757), (49, 56781), (51, 56823), (56, 56895), (58, 56910), (65, 57006), (66, 57015), (68, 57045), (70, 57075), (74, 57114), (78, 57150), (81, 57177), (83, 57183), (105, 57348), (109, 57381), (110, 57420), (112, 57450),

Gene: Anedea_76 Start: 55980, Stop: 57044, Start Num: 7

Candidate Starts for Anedea_76:

(Start: 7 @55980 has 73 MA's), (Start: 15 @56100 has 2 MA's), (28, 56220), (30, 56229), (32, 56244), (33, 56247), (49, 56373), (51, 56415), (52, 56418), (56, 56487), (57, 56490), (58, 56502), (65, 56598), (66, 56607), (68, 56637), (70, 56667), (74, 56706), (83, 56775), (112, 57036),

Gene: Angela_74 Start: 55439, Stop: 56503, Start Num: 7

Candidate Starts for Angela_74:

(Start: 7 @55439 has 73 MA's), (Start: 15 @55559 has 2 MA's), (30, 55688), (32, 55703), (33, 55706), (37, 55727), (49, 55832), (51, 55874), (56, 55946), (57, 55949), (58, 55961), (65, 56057), (66, 56066), (68, 56096), (70, 56126), (83, 56234), (112, 56495),

Gene: Annadreamy_55 Start: 45380, Stop: 46477, Start Num: 7

Candidate Starts for Annadreamy_55:

(Start: 7 @45380 has 73 MA's), (25, 45608), (27, 45617), (31, 45635), (49, 45788), (51, 45830), (52, 45833), (58, 45917), (59, 45935), (60, 45941), (63, 46001), (66, 46028), (68, 46058), (70, 46088), (72, 46118), (79, 46166), (83, 46196), (89, 46262), (91, 46274), (109, 46400),

Gene: Bartholomune_76 Start: 55796, Stop: 56860, Start Num: 7

Candidate Starts for Bartholomune_76:

(Start: 7 @55796 has 73 MA's), (32, 56060), (33, 56063), (37, 56084), (49, 56189), (51, 56231), (56, 56303), (57, 56306), (58, 56318), (64, 56402), (68, 56453), (70, 56483), (74, 56522), (76, 56546), (83, 56591), (108, 56780), (110, 56822), (112, 56852),

Gene: Battuta_78 Start: 56356, Stop: 57432, Start Num: 7

Candidate Starts for Battuta_78:

(Start: 7 @56356 has 73 MA's), (Start: 8 @56374 has 5 MA's), (Start: 13 @56428 has 2 MA's), (22, 56563), (34, 56638), (38, 56674), (46, 56731), (49, 56755), (51, 56797), (56, 56869), (58, 56884), (65, 56980), (66, 56989), (68, 57019), (70, 57049), (74, 57088), (78, 57124), (81, 57151), (83, 57157), (105, 57322), (109, 57355), (110, 57394), (112, 57424),

Gene: Belfort_59 Start: 47917, Stop: 49014, Start Num: 7

Candidate Starts for Belfort_59:

(Start: 7 @47917 has 73 MA's), (23, 48133), (40, 48271), (44, 48286), (48, 48316), (49, 48325), (51, 48367), (58, 48454), (60, 48478), (70, 48625), (79, 48703), (83, 48733), (89, 48799), (91, 48811), (103, 48901), (107, 48916), (109, 48937),

Gene: Beuffert_55 Start: 46518, Stop: 47615, Start Num: 7

Candidate Starts for Beuffert_55:

(Start: 7 @46518 has 73 MA's), (25, 46746), (27, 46755), (31, 46773), (49, 46926), (51, 46968), (58, 47055), (59, 47073), (66, 47166), (68, 47196), (70, 47226), (72, 47256), (79, 47304), (83, 47334), (109, 47538), (112, 47607),

Gene: BillNye_53 Start: 49370, Stop: 50452, Start Num: 7

Candidate Starts for BillNye_53:

(1, 49286), (Start: 7 @49370 has 73 MA's), (35, 49652), (49, 49763), (51, 49805), (54, 49838), (58, 49892), (59, 49910), (68, 50033), (70, 50063), (72, 50093), (83, 50171), (109, 50375),

Gene: Birchlyn_77 Start: 54239, Stop: 55315, Start Num: 7

Candidate Starts for Birchlyn_77:

(Start: 7 @54239 has 73 MA's), (Start: 8 @54257 has 5 MA's), (Start: 13 @54311 has 2 MA's), (22, 54446), (34, 54521), (38, 54557), (46, 54614), (49, 54638), (51, 54680), (56, 54752), (58, 54767), (65, 54863), (66, 54872), (68, 54902), (70, 54932), (74, 54971), (78, 55007), (81, 55034), (83, 55040), (105, 55205), (109, 55238), (110, 55277), (112, 55307),

Gene: BlueOtter_80 Start: 57170, Stop: 58234, Start Num: 7

Candidate Starts for BlueOtter_80:

(Start: 7 @57170 has 73 MA's), (Start: 12 @57239 has 2 MA's), (26, 57401), (32, 57434), (33, 57437), (37, 57458), (49, 57563), (51, 57605), (56, 57677), (57, 57680), (58, 57692), (60, 57716), (64, 57776), (68, 57827), (70, 57857), (74, 57896), (78, 57932), (83, 57965), (87, 58004), (98, 58094), (109, 58157), (112, 58226),

Gene: Blueeyedbeauty_57 Start: 45892, Stop: 46989, Start Num: 7

Candidate Starts for Blueeyedbeauty_57:

(Start: 7 @45892 has 73 MA's), (27, 46129), (31, 46147), (49, 46300), (51, 46342), (52, 46345), (58, 46429), (59, 46447), (63, 46513), (66, 46540), (68, 46570), (70, 46600), (72, 46630), (83, 46708), (89, 46774), (109, 46912), (112, 46981),

Gene: Bmoc_76 Start: 55817, Stop: 56881, Start Num: 7

Candidate Starts for Bmoc_76:

(Start: 7 @55817 has 73 MA's), (14, 55910), (Start: 15 @55937 has 2 MA's), (28, 56057), (30, 56066), (32, 56081), (33, 56084), (49, 56210), (51, 56252), (52, 56255), (56, 56324), (58, 56339), (60, 56363), (65, 56435), (70, 56504), (74, 56543), (83, 56612), (112, 56873),

Gene: BoomerJR_80 Start: 56222, Stop: 57298, Start Num: 7

Candidate Starts for BoomerJR_80:

(Start: 7 @56222 has 73 MA's), (Start: 8 @56240 has 5 MA's), (Start: 13 @56294 has 2 MA's), (22, 56429), (34, 56504), (38, 56540), (49, 56621), (51, 56663), (56, 56735), (58, 56750), (61, 56780), (65, 56846), (70, 56915), (72, 56945), (76, 56978), (78, 56990), (81, 57017), (83, 57023), (105, 57188), (109, 57221), (112, 57290),

Gene: Bordeaux_78 Start: 56511, Stop: 57587, Start Num: 7

Candidate Starts for Bordeaux_78:

(Start: 7 @56511 has 73 MA's), (Start: 8 @56529 has 5 MA's), (Start: 13 @56583 has 2 MA's), (22, 56718), (34, 56793), (38, 56829), (46, 56886), (49, 56910), (51, 56952), (56, 57024), (58, 57039), (65, 57135), (66, 57144), (68, 57174), (70, 57204), (74, 57243), (78, 57279), (81, 57306), (83, 57312), (105, 57477), (109, 57510), (110, 57549), (112, 57579),

Gene: Braelyn_77 Start: 56563, Stop: 57627, Start Num: 7

Candidate Starts for Braelyn_77:

(Start: 7 @56563 has 73 MA's), (32, 56827), (33, 56830), (36, 56848), (37, 56851), (49, 56956), (51, 56998), (56, 57070), (57, 57073), (58, 57085), (64, 57169), (68, 57220), (70, 57250), (74, 57289), (76, 57313), (83, 57358), (108, 57547), (110, 57589), (112, 57619),

Gene: CeilingFan_82 Start: 56289, Stop: 57347, Start Num: 8

Candidate Starts for CeilingFan_82:

(Start: 7 @56271 has 73 MA's), (Start: 8 @56289 has 5 MA's), (Start: 13 @56343 has 2 MA's), (22, 56478), (34, 56553), (38, 56589), (46, 56646), (49, 56670), (51, 56712), (56, 56784), (58, 56799), (65, 56895), (66, 56904), (68, 56934), (70, 56964), (74, 57003), (78, 57039), (81, 57066), (83, 57072), (105, 57237), (109, 57270), (110, 57309), (112, 57339),

Gene: Circinus_55 Start: 49509, Stop: 50591, Start Num: 7

Candidate Starts for Circinus_55:

(1, 49425), (Start: 7 @49509 has 73 MA's), (35, 49791), (49, 49902), (51, 49944), (54, 49977), (58, 50031), (59, 50049), (68, 50172), (70, 50202), (72, 50232), (83, 50310), (89, 50376), (109, 50514),

Gene: Comrade_58 Start: 47533, Stop: 48630, Start Num: 7

Candidate Starts for Comrade_58:

(Start: 7 @47533 has 73 MA's), (23, 47749), (40, 47887), (44, 47902), (48, 47932), (49, 47941), (51, 47983), (58, 48070), (60, 48094), (70, 48241), (79, 48319), (83, 48349), (89, 48415), (91, 48427), (103, 48517), (107, 48532), (109, 48553),

Gene: Cross_78 Start: 57240, Stop: 58235, Start Num: 12

Candidate Starts for Cross_78:

(Start: 7 @57171 has 73 MA's), (Start: 12 @57240 has 2 MA's), (26, 57402), (32, 57435), (33, 57438), (37, 57459), (49, 57564), (51, 57606), (56, 57678), (57, 57681), (58, 57693), (60, 57717), (64, 57777), (68, 57828), (70, 57858), (74, 57897), (78, 57933), (83, 57966), (87, 58005), (98, 58095), (109, 58158), (112, 58227),

Gene: Cursive_76 Start: 56696, Stop: 57760, Start Num: 7

Candidate Starts for Cursive_76:

(Start: 7 @56696 has 73 MA's), (Start: 12 @56765 has 2 MA's), (26, 56927), (32, 56960), (33, 56963), (37, 56984), (49, 57089), (51, 57131), (56, 57203), (57, 57206), (58, 57218), (60, 57242), (64, 57302), (68, 57353), (70, 57383), (74, 57422), (78, 57458), (83, 57491), (87, 57530), (98, 57620), (109, 57683), (112, 57752),

Gene: Daubenski_79 Start: 56909, Stop: 57973, Start Num: 7

Candidate Starts for Daubenski_79:

(Start: 7 @56909 has 73 MA's), (Start: 8 @56927 has 5 MA's), (32, 57173), (33, 57176), (37, 57197), (38, 57221), (42, 57257), (49, 57302), (51, 57344), (56, 57416), (57, 57419), (58, 57431), (62, 57476), (65, 57527), (70, 57596), (72, 57626), (74, 57635), (83, 57704), (98, 57833), (110, 57935), (112, 57965),

Gene: Dorin_72 Start: 58073, Stop: 59086, Start Num: 4

Candidate Starts for Dorin_72:

(Start: 4 @58073 has 1 MA's), (6, 58091), (9, 58133), (11, 58148), (17, 58238), (24, 58310), (25, 58316), (29, 58331), (53, 58526), (55, 58556), (56, 58580), (58, 58595), (72, 58793), (83, 58871), (96, 59000), (101, 59033), (102, 59039), (109, 59078),

Gene: EGole_79 Start: 58117, Stop: 59181, Start Num: 7

Candidate Starts for EGole_79:

(Start: 7 @58117 has 73 MA's), (Start: 12 @58186 has 2 MA's), (26, 58348), (32, 58381), (33, 58384), (37, 58405), (49, 58510), (51, 58552), (56, 58624), (57, 58627), (58, 58639), (60, 58663), (64, 58723), (68, 58774), (70, 58804), (74, 58843), (78, 58879), (83, 58912), (87, 58951), (98, 59041), (109, 59104), (112, 59173),

Gene: Elmer_88 Start: 57670, Stop: 58539, Start Num: 22

Candidate Starts for Elmer_88:

(Start: 7 @57463 has 73 MA's), (Start: 8 @57481 has 5 MA's), (Start: 13 @57535 has 2 MA's), (22, 57670), (27, 57700), (34, 57745), (38, 57781), (46, 57838), (49, 57862), (51, 57904), (56, 57976), (58, 57991), (65, 58087), (66, 58096), (68, 58126), (70, 58156), (74, 58195), (78, 58231), (81, 58258), (83, 58264), (105, 58429), (109, 58462), (110, 58501), (112, 58531),

Gene: Emma1919_59 Start: 46318, Stop: 47415, Start Num: 7

Candidate Starts for Emma1919_59:

(1, 46234), (Start: 7 @46318 has 73 MA's), (Start: 15 @46438 has 2 MA's), (23, 46534), (40, 46672), (44, 46687), (49, 46726), (51, 46768), (58, 46855), (63, 46939), (67, 46993), (69, 47002), (70, 47026), (72, 47056), (79, 47104), (83, 47134), (93, 47236), (103, 47302), (107, 47317), (109, 47338), (112, 47407),

Gene: Enygma_80 Start: 58165, Stop: 59241, Start Num: 7

Candidate Starts for Enygma_80:

(Start: 7 @58165 has 73 MA's), (Start: 8 @58183 has 5 MA's), (22, 58372), (34, 58447), (38, 58483), (46, 58540), (49, 58564), (51, 58606), (56, 58678), (58, 58693), (65, 58789), (70, 58858), (74, 58897), (78, 58933), (81, 58960), (83, 58966), (105, 59131), (109, 59164), (110, 59203), (112, 59233),

Gene: Evy_78 Start: 57067, Stop: 58131, Start Num: 7

Candidate Starts for Evy_78:

(Start: 7 @57067 has 73 MA's), (28, 57307), (32, 57331), (33, 57334), (37, 57355), (41, 57409), (49, 57460), (51, 57502), (56, 57574), (57, 57577), (58, 57589), (60, 57613), (64, 57673), (68, 57724), (70, 57754), (71, 57760), (83, 57862), (98, 57991), (108, 58051), (110, 58093), (112, 58123),

Gene: Faust_58 Start: 47454, Stop: 48551, Start Num: 7

Candidate Starts for Faust_58:

(Start: 7 @47454 has 73 MA's), (27, 47691), (28, 47694), (31, 47709), (35, 47751), (49, 47862), (51, 47904), (58, 47991), (59, 48009), (63, 48075), (65, 48093), (68, 48132), (70, 48162), (83, 48270), (88, 48330), (90, 48342), (99, 48414), (109, 48474), (110, 48513),

Gene: Forrest_59 Start: 47015, Stop: 48112, Start Num: 7

Candidate Starts for Forrest_59:

(1, 46931), (Start: 7 @47015 has 73 MA's), (Start: 15 @47135 has 2 MA's), (23, 47231), (40, 47369), (44, 47384), (49, 47423), (51, 47465), (58, 47552), (63, 47636), (69, 47699), (70, 47723), (72, 47753), (79, 47801), (83, 47831), (93, 47933), (103, 47999), (107, 48014), (109, 48035), (112, 48104),

Gene: Francesca_73 Start: 58256, Stop: 59269, Start Num: 4

Candidate Starts for Francesca_73:

(Start: 4 @58256 has 1 MA's), (6, 58274), (9, 58316), (11, 58331), (17, 58421), (24, 58493), (25, 58499), (29, 58514), (53, 58709), (55, 58739), (56, 58763), (58, 58778), (83, 59054), (96, 59183), (102, 59222), (109, 59261),

Gene: Francob_56 Start: 46379, Stop: 47476, Start Num: 7

Candidate Starts for Francob_56:

(Start: 7 @46379 has 73 MA's), (18, 46547), (23, 46595), (27, 46616), (30, 46628), (40, 46733), (49, 46787), (51, 46829), (58, 46916), (65, 47018), (69, 47063), (70, 47087), (79, 47165), (83, 47195), (96, 47321), (103, 47363), (109, 47399),

Gene: Genie2_80 Start: 56336, Stop: 57412, Start Num: 7

Candidate Starts for Genie2_80:

(Start: 7 @56336 has 73 MA's), (Start: 8 @56354 has 5 MA's), (Start: 13 @56408 has 2 MA's), (22, 56543), (34, 56618), (38, 56654), (49, 56735), (51, 56777), (56, 56849), (58, 56864), (61, 56894), (65, 56960), (70, 57029), (72, 57059), (76, 57092), (78, 57104), (81, 57131), (83, 57137), (105, 57302), (109, 57335), (112, 57404),

Gene: Gibbi_84 Start: 56494, Stop: 57570, Start Num: 7

Candidate Starts for Gibbi_84:

(Start: 7 @56494 has 73 MA's), (Start: 8 @56512 has 5 MA's), (Start: 13 @56566 has 2 MA's), (22, 56701), (34, 56776), (38, 56812), (46, 56869), (49, 56893), (51, 56935), (56, 57007), (58, 57022), (65, 57118), (66, 57127), (68, 57157), (70, 57187), (74, 57226), (78, 57262), (81, 57289), (83, 57295), (105, 57460), (109, 57493), (112, 57562),

Gene: Gilson_58 Start: 46391, Stop: 47368, Start Num: 15

Candidate Starts for Gilson_58:

(1, 46187), (Start: 7 @46271 has 73 MA's), (Start: 15 @46391 has 2 MA's), (23, 46487), (40, 46625), (44, 46640), (49, 46679), (51, 46721), (58, 46808), (63, 46892), (67, 46946), (69, 46955), (70, 46979), (72, 47009), (79, 47057), (83, 47087), (93, 47189), (103, 47255), (107, 47270), (109, 47291), (112, 47360),

Gene: Grayson_100 Start: 60346, Stop: 61206, Start Num: 16

Candidate Starts for Grayson_100:

(Start: 7 @60223 has 73 MA's), (Start: 16 @60346 has 2 MA's), (24, 60445), (25, 60451), (28, 60463), (34, 60499), (39, 60544), (45, 60577), (48, 60601), (56, 60721), (58, 60736), (68, 60874), (84, 61021), (104, 61183),

Gene: HangryHippo_80 Start: 57170, Stop: 58234, Start Num: 7

Candidate Starts for HangryHippo_80:

(Start: 7 @57170 has 73 MA's), (Start: 12 @57239 has 2 MA's), (26, 57401), (32, 57434), (33, 57437), (37, 57458), (49, 57563), (51, 57605), (56, 57677), (57, 57680), (58, 57692), (60, 57716), (64, 57776), (68, 57827), (70, 57857), (74, 57896), (78, 57932), (83, 57965), (87, 58004), (98, 58094), (109, 58157), (112, 58226),

Gene: IchabodCrane_77 Start: 56155, Stop: 57159, Start Num: 13

Candidate Starts for IchabodCrane_77:

(Start: 7 @56083 has 73 MA's), (Start: 8 @56101 has 5 MA's), (Start: 13 @56155 has 2 MA's), (22, 56290), (34, 56365), (38, 56401), (46, 56458), (49, 56482), (51, 56524), (56, 56596), (58, 56611), (65, 56707), (66, 56716), (68, 56746), (70, 56776), (74, 56815), (78, 56851), (81, 56878), (83, 56884), (105, 57049), (109, 57082), (110, 57121), (112, 57151),

Gene: Jada_57 Start: 46197, Stop: 47294, Start Num: 7

Candidate Starts for Jada_57:

(1, 46113), (Start: 7 @46197 has 73 MA's), (Start: 15 @46317 has 2 MA's), (23, 46413), (40, 46551), (44, 46566), (49, 46605), (51, 46647), (58, 46734), (63, 46818), (69, 46881), (70, 46905), (72, 46935), (79, 46983), (83, 47013), (93, 47115), (103, 47181), (107, 47196), (109, 47217), (112, 47286),

Gene: Jay2Jay_82 Start: 57920, Stop: 58984, Start Num: 7

Candidate Starts for Jay2Jay_82:

(Start: 7 @57920 has 73 MA's), (28, 58160), (32, 58184), (33, 58187), (37, 58208), (49, 58313), (51, 58355), (56, 58427), (57, 58430), (58, 58442), (60, 58466), (64, 58526), (66, 58547), (68, 58577), (70, 58607), (79, 58685), (83, 58715), (98, 58844), (108, 58904), (110, 58946), (112, 58976),

Gene: JimJam_80 Start: 56457, Stop: 57533, Start Num: 7

Candidate Starts for JimJam_80:

(Start: 7 @56457 has 73 MA's), (Start: 8 @56475 has 5 MA's), (Start: 13 @56529 has 2 MA's), (22, 56664), (34, 56739), (38, 56775), (46, 56832), (49, 56856), (51, 56898), (56, 56970), (58, 56985), (65, 57081), (66, 57090), (68, 57120), (70, 57150), (74, 57189), (78, 57225), (81, 57252), (83, 57258), (105, 57423), (109, 57456), (110, 57495), (112, 57525),

Gene: Jollison_84 Start: 56357, Stop: 57415, Start Num: 8

Candidate Starts for Jollison_84:

(Start: 7 @56339 has 73 MA's), (Start: 8 @56357 has 5 MA's), (Start: 13 @56411 has 2 MA's), (22, 56546), (34, 56621), (38, 56657), (46, 56714), (49, 56738), (51, 56780), (56, 56852), (58, 56867), (65, 56963), (66, 56972), (68, 57002), (70, 57032), (74, 57071), (78, 57107), (81, 57134), (83, 57140), (105, 57305), (109, 57338), (110, 57377), (112, 57407),

Gene: Karimac_79 Start: 56488, Stop: 57564, Start Num: 7

Candidate Starts for Karimac_79:

(Start: 7 @56488 has 73 MA's), (Start: 8 @56506 has 5 MA's), (Start: 13 @56560 has 2 MA's), (22, 56695), (34, 56770), (38, 56806), (46, 56863), (49, 56887), (51, 56929), (56, 57001), (58, 57016), (65, 57112), (66, 57121), (68, 57151), (70, 57181), (74, 57220), (78, 57256), (81, 57283), (83, 57289), (105, 57454), (109, 57487), (110, 57526), (112, 57556),

Gene: Karp_56 Start: 47132, Stop: 48229, Start Num: 7

Candidate Starts for Karp_56:

(Start: 7 @47132 has 73 MA's), (23, 47348), (40, 47486), (44, 47501), (48, 47531), (49, 47540), (51, 47582), (58, 47669), (60, 47693), (70, 47840), (79, 47918), (83, 47948), (89, 48014), (91, 48026), (103, 48116), (107, 48131), (109, 48152),

Gene: Kenrey_59 Start: 46586, Stop: 47563, Start Num: 15

Candidate Starts for Kenrey_59:

(Start: 7 @46466 has 73 MA's), (Start: 15 @46586 has 2 MA's), (23, 46682), (40, 46820), (49, 46874), (51, 46916), (54, 46949), (58, 47003), (61, 47033), (63, 47087), (70, 47174), (73, 47207), (79, 47252), (83, 47282), (91, 47360), (109, 47486), (111, 47537), (112, 47555),

Gene: KentuckyRacer_83 Start: 56290, Stop: 57348, Start Num: 8

Candidate Starts for KentuckyRacer_83:

(Start: 7 @56272 has 73 MA's), (Start: 8 @56290 has 5 MA's), (Start: 13 @56344 has 2 MA's), (22, 56479), (34, 56554), (38, 56590), (46, 56647), (49, 56671), (51, 56713), (56, 56785), (58, 56800), (65, 56896), (66, 56905), (68, 56935), (70, 56965), (74, 57004), (78, 57040), (81, 57067), (83, 57073), (105, 57238), (109, 57271), (110, 57310), (112, 57340),

Gene: Larnav_83 Start: 57155, Stop: 58219, Start Num: 7

Candidate Starts for Larnav_83:

(Start: 7 @57155 has 73 MA's), (Start: 12 @57224 has 2 MA's), (26, 57386), (32, 57419), (33, 57422), (37, 57443), (49, 57548), (51, 57590), (56, 57662), (57, 57665), (58, 57677), (60, 57701), (64, 57761), (68, 57812), (70, 57842), (74, 57881), (78, 57917), (83, 57950), (87, 57989), (98, 58079), (109, 58142), (112, 58211),

Gene: Leo04_79 Start: 57670, Stop: 58734, Start Num: 7

Candidate Starts for Leo04_79:

(Start: 7 @57670 has 73 MA's), (Start: 12 @57739 has 2 MA's), (26, 57901), (32, 57934), (33, 57937), (37, 57958), (49, 58063), (51, 58105), (56, 58177), (57, 58180), (58, 58192), (60, 58216), (64, 58276), (68, 58327), (70, 58357), (74, 58396), (78, 58432), (83, 58465), (87, 58504), (98, 58594), (109, 58657), (112, 58726),

Gene: Liandry_76 Start: 56545, Stop: 57609, Start Num: 7

Candidate Starts for Liandry_76:

(Start: 7 @56545 has 73 MA's), (32, 56809), (33, 56812), (37, 56833), (49, 56938), (51, 56980), (56, 57052), (57, 57055), (58, 57067), (64, 57151), (68, 57202), (70, 57232), (74, 57271), (76, 57295), (83, 57340), (108, 57529), (110, 57571), (112, 57601),

Gene: LilMartin_75 Start: 55387, Stop: 56451, Start Num: 7

Candidate Starts for LilMartin_75:

(Start: 7 @55387 has 73 MA's), (Start: 15 @55507 has 2 MA's), (30, 55636), (32, 55651), (33, 55654), (37, 55675), (49, 55780), (51, 55822), (56, 55894), (57, 55897), (58, 55909), (65, 56005), (66, 56014), (68, 56044), (70, 56074), (83, 56182), (112, 56443),

Gene: Limpid_55 Start: 45379, Stop: 46476, Start Num: 7

Candidate Starts for Limpid_55:

(Start: 7 @45379 has 73 MA's), (25, 45607), (27, 45616), (31, 45634), (49, 45787), (51, 45829), (52, 45832), (58, 45916), (59, 45934), (60, 45940), (63, 46000), (66, 46027), (68, 46057), (70, 46087), (72, 46117), (79, 46165), (83, 46195), (89, 46261), (91, 46273), (109, 46399),

Gene: LukeCage_79 Start: 56251, Stop: 57327, Start Num: 7

Candidate Starts for LukeCage_79:

(Start: 7 @56251 has 73 MA's), (Start: 8 @56269 has 5 MA's), (Start: 13 @56323 has 2 MA's), (22, 56458), (25, 56479), (34, 56533), (38, 56569), (46, 56626), (49, 56650), (51, 56692), (56, 56764), (58, 56779), (65, 56875), (66, 56884), (70, 56944), (74, 56983), (78, 57019), (81, 57046), (83, 57052), (105, 57217), (109, 57250), (110, 57289), (112, 57319),

Gene: Lululemon_79 Start: 56551, Stop: 57615, Start Num: 7

Candidate Starts for Lululemon_79:

(Start: 7 @56551 has 73 MA's), (Start: 12 @56620 has 2 MA's), (26, 56782), (32, 56815), (33, 56818), (37, 56839), (49, 56944), (51, 56986), (56, 57058), (57, 57061), (58, 57073), (60, 57097), (64, 57157), (68, 57208), (70, 57238), (74, 57277), (78, 57313), (83, 57346), (87, 57385), (98, 57475), (109, 57538), (112, 57607),

Gene: MeganTheeKilla_56 Start: 45632, Stop: 46729, Start Num: 7

Candidate Starts for MeganTheeKilla_56:

(1, 45548), (Start: 7 @45632 has 73 MA's), (Start: 15 @45752 has 2 MA's), (23, 45848), (40, 45986), (44, 46001), (49, 46040), (51, 46082), (58, 46169), (63, 46253), (69, 46316), (70, 46340), (72, 46370), (79, 46418), (83, 46448), (93, 46550), (103, 46616), (107, 46631), (109, 46652), (112, 46721),

Gene: Mildred21_76 Start: 55591, Stop: 56655, Start Num: 7

Candidate Starts for Mildred21_76:

(Start: 7 @55591 has 73 MA's), (30, 55840), (32, 55855), (33, 55858), (37, 55879), (49, 55984), (51, 56026), (56, 56098), (57, 56101), (58, 56113), (64, 56197), (68, 56248), (70, 56278), (76, 56341), (78, 56353), (83, 56386), (87, 56425), (95, 56491), (98, 56515), (108, 56575), (112, 56647),

Gene: MindFlayer_77 Start: 55990, Stop: 57066, Start Num: 7

Candidate Starts for MindFlayer_77:

(Start: 7 @55990 has 73 MA's), (Start: 8 @56008 has 5 MA's), (Start: 13 @56062 has 2 MA's), (22, 56197), (34, 56272), (38, 56308), (46, 56365), (49, 56389), (51, 56431), (56, 56503), (58, 56518), (65, 56614), (66, 56623), (68, 56653), (70, 56683), (74, 56722), (78, 56758), (81, 56785), (83, 56791), (105, 56956), (109, 56989), (110, 57028), (112, 57058),

Gene: Moab_58 Start: 47488, Stop: 48585, Start Num: 7

Candidate Starts for Moab_58:

(Start: 7 @47488 has 73 MA's), (Start: 15 @47608 has 2 MA's), (23, 47704), (35, 47785), (43, 47854), (47, 47881), (49, 47896), (51, 47938), (54, 47971), (58, 48025), (60, 48049), (66, 48136), (70, 48196), (72, 48226), (79, 48274), (83, 48304), (96, 48430), (99, 48448), (103, 48472), (109, 48508),

Gene: Mugiwara_81 Start: 56768, Stop: 57826, Start Num: 8

Candidate Starts for Mugiwara_81:

(Start: 7 @56750 has 73 MA's), (Start: 8 @56768 has 5 MA's), (Start: 13 @56822 has 2 MA's), (22, 56957), (34, 57032), (38, 57068), (46, 57125), (49, 57149), (51, 57191), (56, 57263), (58, 57278), (65, 57374), (66, 57383), (68, 57413), (70, 57443), (74, 57482), (78, 57518), (83, 57551), (105, 57716), (109, 57749), (112, 57818),

Gene: MulchMansion_75 Start: 55387, Stop: 56451, Start Num: 7

Candidate Starts for MulchMansion_75:

(Start: 7 @55387 has 73 MA's), (Start: 15 @55507 has 2 MA's), (30, 55636), (32, 55651), (33, 55654), (37, 55675), (49, 55780), (51, 55822), (56, 55894), (57, 55897), (58, 55909), (65, 56005), (66, 56014), (68, 56044), (70, 56074), (83, 56182), (112, 56443),

Gene: Muntaha_55 Start: 47745, Stop: 48827, Start Num: 7

Candidate Starts for Muntaha_55:

(Start: 7 @47745 has 73 MA's), (49, 48138), (51, 48180), (58, 48267), (59, 48285), (65, 48369), (68, 48408), (70, 48438), (72, 48468), (83, 48546), (86, 48576), (109, 48750),

Gene: Navo_75 Start: 56467, Stop: 57531, Start Num: 7

Candidate Starts for Navo_75:

(Start: 7 @56467 has 73 MA's), (32, 56731), (33, 56734), (36, 56752), (37, 56755), (49, 56860), (51, 56902), (56, 56974), (57, 56977), (58, 56989), (64, 57073), (68, 57124), (70, 57154), (74, 57193), (76, 57217), (83, 57262), (108, 57451), (110, 57493), (112, 57523),

Gene: NiceHouse_88 Start: 62950, Stop: 63975, Start Num: 5

Candidate Starts for NiceHouse_88:

(3, 62938), (Start: 5 @62950 has 1 MA's), (9, 63007), (Start: 12 @63031 has 2 MA's), (Start: 15 @63082 has 2 MA's), (18, 63130), (21, 63154), (36, 63247), (45, 63319), (49, 63352), (52, 63394), (56, 63463), (58, 63478), (65, 63577), (70, 63649), (77, 63718), (82, 63754), (83, 63757), (92, 63844), (100, 63913), (101, 63919), (108, 63961),

Gene: NootNoot_73 Start: 55459, Stop: 56523, Start Num: 7

Candidate Starts for NootNoot_73:

(Start: 7 @55459 has 73 MA's), (32, 55723), (33, 55726), (37, 55747), (49, 55852), (51, 55894), (56, 55966), (57, 55969), (58, 55981), (64, 56065), (68, 56116), (70, 56146), (74, 56185), (76, 56209), (83, 56254), (108, 56443), (110, 56485), (112, 56515),

Gene: PacManQ_79 Start: 56551, Stop: 57615, Start Num: 7

Candidate Starts for PacManQ_79:

(Start: 7 @56551 has 73 MA's), (Start: 12 @56620 has 2 MA's), (26, 56782), (32, 56815), (33, 56818), (37, 56839), (49, 56944), (51, 56986), (56, 57058), (57, 57061), (58, 57073), (60, 57097), (64, 57157), (68, 57208), (70, 57238), (74, 57277), (78, 57313), (83, 57346), (87, 57385), (98, 57475), (109, 57538), (112, 57607),

Gene: Paradiddles_73 Start: 55723, Stop: 56787, Start Num: 7

Candidate Starts for Paradiddles_73:

(Start: 7 @55723 has 73 MA's), (32, 55987), (33, 55990), (37, 56011), (49, 56116), (51, 56158), (56, 56230), (57, 56233), (58, 56245), (68, 56380), (70, 56410), (74, 56449), (75, 56452), (76, 56473), (83, 56518), (108, 56707), (110, 56749), (112, 56779),

Gene: Patelgo_57 Start: 47675, Stop: 48772, Start Num: 7

Candidate Starts for Patelgo_57:

(Start: 7 @47675 has 73 MA's), (23, 47891), (35, 47972), (43, 48041), (47, 48068), (49, 48083), (51, 48125), (54, 48158), (58, 48212), (60, 48236), (66, 48323), (70, 48383), (72, 48413), (75, 48425), (79, 48461), (83, 48491), (96, 48617), (99, 48635), (103, 48659), (109, 48695),

Gene: Peebs_77 Start: 56974, Stop: 57969, Start Num: 12

Candidate Starts for Peebs_77:

(Start: 7 @56905 has 73 MA's), (Start: 12 @56974 has 2 MA's), (26, 57136), (32, 57169), (33, 57172), (37, 57193), (49, 57298), (51, 57340), (56, 57412), (57, 57415), (58, 57427), (60, 57451), (64, 57511), (68, 57562), (70, 57592), (74, 57631), (78, 57667), (83, 57700), (87, 57739), (98, 57829), (109, 57892), (112, 57961),

Gene: Pepperwood_78 Start: 57038, Stop: 58102, Start Num: 7

Candidate Starts for Pepperwood_78:

(Start: 7 @57038 has 73 MA's), (Start: 12 @57107 has 2 MA's), (26, 57269), (32, 57302), (33, 57305), (37, 57326), (49, 57431), (51, 57473), (56, 57545), (57, 57548), (58, 57560), (60, 57584), (64, 57644), (68, 57695), (70, 57725), (74, 57764), (78, 57800), (83, 57833), (87, 57872), (98, 57962), (109, 58025), (112, 58094),

Gene: Peregrin_97 Start: 58713, Stop: 59573, Start Num: 16

Candidate Starts for Peregrin_97:

(Start: 7 @58590 has 73 MA's), (Start: 16 @58713 has 2 MA's), (20, 58779), (24, 58812), (25, 58818), (28, 58830), (34, 58866), (39, 58911), (45, 58944), (48, 58968), (56, 59088), (58, 59103), (68, 59241), (84, 59388), (104, 59550),

Gene: Persimmon_74 Start: 55392, Stop: 56456, Start Num: 7

Candidate Starts for Persimmon_74:

(Start: 7 @55392 has 73 MA's), (32, 55656), (33, 55659), (37, 55680), (49, 55785), (51, 55827), (56, 55899), (57, 55902), (58, 55914), (64, 55998), (68, 56049), (70, 56079), (74, 56118), (75, 56121), (76, 56142), (83, 56187), (108, 56376), (110, 56418), (112, 56448),

Gene: Phredrick_57 Start: 45537, Stop: 46634, Start Num: 7

Candidate Starts for Phredrick_57:

(Start: 7 @45537 has 73 MA's), (Start: 15 @45657 has 2 MA's), (23, 45753), (40, 45891), (49, 45945), (51, 45987), (54, 46020), (58, 46074), (63, 46158), (70, 46245), (73, 46278), (79, 46323), (83, 46353), (91, 46431), (109, 46557), (111, 46608), (112, 46626),

Gene: PinkiePie_76 Start: 56545, Stop: 57609, Start Num: 7

Candidate Starts for PinkiePie_76:

(Start: 7 @56545 has 73 MA's), (32, 56809), (33, 56812), (37, 56833), (49, 56938), (51, 56980), (56, 57052), (57, 57055), (58, 57067), (64, 57151), (68, 57202), (70, 57232), (74, 57271), (76, 57295), (83, 57340), (108, 57529), (110, 57571), (112, 57601),

Gene: PumpkinSpice_79 Start: 56382, Stop: 57458, Start Num: 7

Candidate Starts for PumpkinSpice_79:

(Start: 7 @56382 has 73 MA's), (Start: 8 @56400 has 5 MA's), (Start: 13 @56454 has 2 MA's), (22, 56589), (34, 56664), (38, 56700), (46, 56757), (49, 56781), (51, 56823), (56, 56895), (58, 56910), (65, 57006), (66, 57015), (68, 57045), (70, 57075), (74, 57114), (78, 57150), (81, 57177), (83, 57183), (105, 57348), (109, 57381), (110, 57420), (112, 57450),

Gene: Quaran19_79 Start: 56373, Stop: 57449, Start Num: 7

Candidate Starts for Quaran19_79:

(Start: 7 @56373 has 73 MA's), (Start: 8 @56391 has 5 MA's), (Start: 13 @56445 has 2 MA's), (22, 56580), (34, 56655), (38, 56691), (46, 56748), (49, 56772), (51, 56814), (56, 56886), (58, 56901), (65, 56997), (66, 57006), (68, 57036), (70, 57066), (74, 57105), (78, 57141), (81, 57168), (83, 57174), (105, 57339), (109, 57372), (110, 57411), (112, 57441),

Gene: SaltySpittoon_79 Start: 56382, Stop: 57458, Start Num: 7

Candidate Starts for SaltySpittoon_79:

(Start: 7 @56382 has 73 MA's), (Start: 8 @56400 has 5 MA's), (Start: 13 @56454 has 2 MA's), (22, 56589), (34, 56664), (38, 56700), (46, 56757), (49, 56781), (51, 56823), (56, 56895), (58, 56910), (65, 57006), (66, 57015), (68, 57045), (70, 57075), (74, 57114), (78, 57150), (81, 57177), (83, 57183), (105, 57348), (109, 57381), (110, 57420), (112, 57450),

Gene: Samisti12_78 Start: 58348, Stop: 59412, Start Num: 7

Candidate Starts for Samisti12_78:

(Start: 7 @58348 has 73 MA's), (Start: 12 @58417 has 2 MA's), (26, 58579), (32, 58612), (33, 58615), (37, 58636), (49, 58741), (51, 58783), (56, 58855), (57, 58858), (58, 58870), (60, 58894), (64, 58954), (68, 59005), (70, 59035), (74, 59074), (78, 59110), (83, 59143), (87, 59182), (98, 59272), (109, 59335), (112, 59404),

Gene: SeresaTree_58 Start: 47099, Stop: 47941, Start Num: 31

Candidate Starts for SeresaTree_58:

(Start: 7 @46844 has 73 MA's), (27, 47081), (28, 47084), (31, 47099), (35, 47141), (49, 47252), (51, 47294), (58, 47381), (59, 47399), (63, 47465), (65, 47483), (68, 47522), (70, 47552), (83, 47660), (88, 47720), (90, 47732), (99, 47804), (109, 47864), (110, 47903),

Gene: Sham_54 Start: 47385, Stop: 48482, Start Num: 7

Candidate Starts for Sham_54:

(Start: 7 @47385 has 73 MA's), (27, 47622), (31, 47640), (35, 47682), (49, 47793), (51, 47835), (58, 47922), (59, 47940), (66, 48033), (69, 48069), (70, 48093), (72, 48123), (79, 48171), (83, 48201), (90, 48273), (96, 48327), (109, 48405),

Gene: Sollertia_80 Start: 56336, Stop: 57412, Start Num: 7

Candidate Starts for Sollertia_80:

(Start: 7 @56336 has 73 MA's), (Start: 8 @56354 has 5 MA's), (Start: 13 @56408 has 2 MA's), (22, 56543), (34, 56618), (38, 56654), (49, 56735), (51, 56777), (56, 56849), (58, 56864), (61, 56894), (65, 56960), (70, 57029), (72, 57059), (76, 57092), (78, 57104), (81, 57131), (83, 57137), (105, 57302), (109, 57335), (112, 57404),

Gene: SparkleGoddess_58 Start: 47534, Stop: 48631, Start Num: 7

Candidate Starts for SparkleGoddess_58:

(Start: 7 @47534 has 73 MA's), (23, 47750), (40, 47888), (44, 47903), (48, 47933), (49, 47942), (51, 47984), (58, 48071), (60, 48095), (70, 48242), (79, 48320), (83, 48350), (89, 48416), (91, 48428), (103, 48518), (107, 48533), (109, 48554),

Gene: Spelly_80 Start: 56337, Stop: 57413, Start Num: 7

Candidate Starts for Spelly_80:

(Start: 7 @56337 has 73 MA's), (Start: 8 @56355 has 5 MA's), (Start: 13 @56409 has 2 MA's), (22, 56544), (34, 56619), (38, 56655), (46, 56712), (49, 56736), (51, 56778), (56, 56850), (58, 56865), (65, 56961), (66, 56970), (68, 57000), (70, 57030), (74, 57069), (78, 57105), (81, 57132), (83, 57138), (105, 57303), (109, 57336), (110, 57375), (112, 57405),

Gene: Spilled_81 Start: 56454, Stop: 57530, Start Num: 7

Candidate Starts for Spilled_81:

(Start: 7 @56454 has 73 MA's), (Start: 8 @56472 has 5 MA's), (Start: 13 @56526 has 2 MA's), (22, 56661), (34, 56736), (38, 56772), (46, 56829), (49, 56853), (51, 56895), (56, 56967), (58, 56982), (65, 57078), (66, 57087), (68, 57117), (70, 57147), (74, 57186), (78, 57222), (81, 57249), (83, 57255), (105, 57420), (109, 57453), (110, 57492), (112, 57522),

Gene: Squillium_77 Start: 56546, Stop: 57610, Start Num: 7

Candidate Starts for Squillium_77:

(Start: 7 @56546 has 73 MA's), (32, 56810), (33, 56813), (37, 56834), (49, 56939), (51, 56981), (56, 57053), (57, 57056), (58, 57068), (64, 57152), (68, 57203), (70, 57233), (74, 57272), (76, 57296), (83, 57341), (108, 57530), (110, 57572), (112, 57602),

Gene: Stanimal_80 Start: 56225, Stop: 57301, Start Num: 7

Candidate Starts for Stanimal_80:

(Start: 7 @56225 has 73 MA's), (Start: 8 @56243 has 5 MA's), (Start: 13 @56297 has 2 MA's), (22, 56432), (34, 56507), (38, 56543), (49, 56624), (51, 56666), (56, 56738), (58, 56753), (61, 56783), (65, 56849), (70, 56918), (72, 56948), (76, 56981), (78, 56993), (81, 57020), (83, 57026), (105, 57191), (109, 57224), (112, 57293),

Gene: StarPlatinum_80 Start: 56915, Stop: 57973, Start Num: 8

Candidate Starts for StarPlatinum_80:

(Start: 7 @56897 has 73 MA's), (Start: 8 @56915 has 5 MA's), (Start: 13 @56969 has 2 MA's), (22, 57104), (34, 57179), (38, 57215), (46, 57272), (49, 57296), (51, 57338), (56, 57410), (58, 57425), (65, 57521), (66, 57530), (70, 57590), (74, 57629), (78, 57665), (81, 57692), (83, 57698), (105, 57863), (109, 57896), (110, 57935), (112, 57965),

Gene: Starbow_78 Start: 56376, Stop: 57434, Start Num: 8

Candidate Starts for Starbow_78:

(Start: 7 @56358 has 73 MA's), (Start: 8 @56376 has 5 MA's), (Start: 13 @56430 has 2 MA's), (22, 56565), (34, 56640), (38, 56676), (46, 56733), (49, 56757), (51, 56799), (56, 56871), (58, 56886), (65, 56982), (66, 56991), (68, 57021), (70, 57051), (74, 57090), (78, 57126), (81, 57153), (83, 57159), (105, 57324), (109, 57357), (110, 57396), (112, 57426),

Gene: Stigma_57 Start: 47548, Stop: 48645, Start Num: 7

Candidate Starts for Stigma_57:

(Start: 7 @47548 has 73 MA's), (23, 47764), (40, 47902), (44, 47917), (48, 47947), (49, 47956), (51, 47998), (58, 48085), (60, 48109), (70, 48256), (79, 48334), (83, 48364), (89, 48430), (91, 48442), (103, 48532), (107, 48547), (109, 48568),

Gene: Sushi23_77 Start: 57263, Stop: 58327, Start Num: 7

Candidate Starts for Sushi23_77:

(Start: 7 @57263 has 73 MA's), (Start: 12 @57332 has 2 MA's), (26, 57494), (32, 57527), (33, 57530), (37, 57551), (49, 57656), (51, 57698), (56, 57770), (57, 57773), (58, 57785), (60, 57809), (64, 57869), (68, 57920), (70, 57950), (74, 57989), (78, 58025), (83, 58058), (87, 58097), (98, 58187), (109, 58250), (112, 58319),

Gene: Targaryen_78 Start: 57969, Stop: 59033, Start Num: 7

Candidate Starts for Targaryen_78:

(Start: 7 @57969 has 73 MA's), (28, 58209), (32, 58233), (33, 58236), (37, 58257), (41, 58311), (49, 58362), (51, 58404), (56, 58476), (57, 58479), (58, 58491), (60, 58515), (64, 58575), (66, 58596), (68, 58626), (70, 58656), (71, 58662), (79, 58734), (83, 58764), (98, 58893), (108, 58953), (110, 58995), (112, 59025),

Gene: Teutsch_78 Start: 57526, Stop: 58590, Start Num: 7

Candidate Starts for Teutsch_78:

(Start: 7 @57526 has 73 MA's), (Start: 12 @57595 has 2 MA's), (26, 57757), (32, 57790), (33, 57793), (37, 57814), (49, 57919), (51, 57961), (56, 58033), (57, 58036), (58, 58048), (60, 58072), (64, 58132), (68, 58183), (70, 58213), (74, 58252), (78, 58288), (83, 58321), (87, 58360), (98, 58450), (109, 58513), (112, 58582),

Gene: TomSawyer_78 Start: 55976, Stop: 57052, Start Num: 7

Candidate Starts for TomSawyer_78:

(Start: 7 @55976 has 73 MA's), (Start: 8 @55994 has 5 MA's), (Start: 13 @56048 has 2 MA's), (22, 56183), (34, 56258), (38, 56294), (46, 56351), (49, 56375), (51, 56417), (56, 56489), (58, 56504), (65, 56600), (66, 56609), (68, 56639), (70, 56669), (74, 56708), (78, 56744), (81, 56771), (83, 56777), (105, 56942), (109, 56975), (110, 57014), (112, 57044),

Gene: Tomas_82 Start: 58734, Stop: 59792, Start Num: 8

Candidate Starts for Tomas_82:

(Start: 7 @58716 has 73 MA's), (Start: 8 @58734 has 5 MA's), (19, 58902), (22, 58923), (34, 58998), (49, 59115), (51, 59157), (56, 59229), (58, 59244), (65, 59340), (70, 59409), (72, 59439), (74, 59448), (83, 59517), (94, 59622), (109, 59715), (112, 59784),

Gene: Tribute_76 Start: 56732, Stop: 57796, Start Num: 7

Candidate Starts for Tribute_76:

(Start: 7 @56732 has 73 MA's), (Start: 12 @56801 has 2 MA's), (19, 56918), (26, 56963), (32, 56996), (33, 56999), (37, 57020), (49, 57125), (51, 57167), (56, 57239), (57, 57242), (58, 57254), (60, 57278), (64, 57338), (68, 57389), (70, 57419), (74, 57458), (78, 57494), (83, 57527), (87, 57566), (98, 57656), (109, 57719), (112, 57788),

Gene: Trina_99 Start: 66025, Stop: 66966, Start Num: 10

Candidate Starts for Trina_99:

(2, 65941), (Start: 10 @66025 has 1 MA's), (Start: 12 @66049 has 2 MA's), (14, 66073), (Start: 15 @66100 has 2 MA's), (30, 66229), (33, 66247), (34, 66256), (45, 66337), (49, 66370), (50, 66385), (56, 66481), (58, 66496), (65, 66595), (77, 66736), (80, 66766), (83, 66775), (85, 66799), (97, 66913), (106, 66958),

Gene: TunaTartare_56 Start: 47688, Stop: 48785, Start Num: 7

Candidate Starts for TunaTartare_56:

(Start: 7 @47688 has 73 MA's), (27, 47925), (28, 47928), (31, 47943), (35, 47985), (49, 48096), (51, 48138), (58, 48225), (59, 48243), (65, 48327), (66, 48336), (69, 48372), (70, 48396), (79, 48474), (83, 48504), (90, 48576), (96, 48630), (109, 48708),

Gene: Wakanda_54 Start: 47682, Stop: 48764, Start Num: 7

Candidate Starts for Wakanda_54:

(Start: 7 @47682 has 73 MA's), (49, 48075), (51, 48117), (58, 48204), (59, 48222), (65, 48306), (68, 48345), (70, 48375), (72, 48405), (83, 48483), (86, 48513), (109, 48687),

Gene: Warpy_81 Start: 57433, Stop: 58497, Start Num: 7

Candidate Starts for Warpy_81:

(Start: 7 @57433 has 73 MA's), (28, 57673), (32, 57697), (33, 57700), (37, 57721), (49, 57826), (51, 57868), (56, 57940), (57, 57943), (58, 57955), (60, 57979), (64, 58039), (66, 58060), (68, 58090), (70, 58120), (71, 58126), (83, 58228), (98, 58357), (108, 58417), (110, 58459), (112, 58489),

Gene: Watermoore_78 Start: 57742, Stop: 58806, Start Num: 7

Candidate Starts for Watermoore_78:

(Start: 7 @57742 has 73 MA's), (Start: 12 @57811 has 2 MA's), (26, 57973), (32, 58006), (33, 58009), (37, 58030), (49, 58135), (51, 58177), (56, 58249), (57, 58252), (58, 58264), (60, 58288), (64, 58348), (68, 58399), (70, 58429), (74, 58468), (78, 58504), (83, 58537), (87, 58576), (98, 58666), (109, 58729), (112, 58798),

Gene: Weasels2_99 Start: 59743, Stop: 60729, Start Num: 7

Candidate Starts for Weasels2_99:

(Start: 7 @59743 has 73 MA's), (20, 59932), (24, 59965), (34, 60019), (45, 60097), (48, 60121), (53, 60187), (54, 60202), (56, 60241), (58, 60256), (79, 60505), (80, 60526), (89, 60604),

Gene: WhereRU_76 Start: 55983, Stop: 57047, Start Num: 7

Candidate Starts for WhereRU_76:

(Start: 7 @55983 has 73 MA's), (32, 56247), (33, 56250), (37, 56271), (49, 56376), (51, 56418), (56, 56490), (57, 56493), (58, 56505), (64, 56589), (68, 56640), (70, 56670), (74, 56709), (76, 56733), (83, 56778), (108, 56967), (110, 57009), (112, 57039),

Gene: Wipeout_77 Start: 56745, Stop: 57803, Start Num: 8

Candidate Starts for Wipeout_77:

(Start: 7 @56727 has 73 MA's), (Start: 8 @56745 has 5 MA's), (Start: 13 @56799 has 2 MA's), (22, 56934), (34, 57009), (38, 57045), (46, 57102), (49, 57126), (51, 57168), (56, 57240), (58, 57255), (65, 57351), (66, 57360), (68, 57390), (70, 57420), (74, 57459), (78, 57495), (81, 57522), (83, 57528), (105, 57693), (109, 57726), (110, 57765), (112, 57795),

Gene: Wofford_79 Start: 57498, Stop: 58502, Start Num: 13

Candidate Starts for Wofford_79:

(Start: 7 @57426 has 73 MA's), (Start: 8 @57444 has 5 MA's), (Start: 13 @57498 has 2 MA's), (22, 57633), (27, 57663), (34, 57708), (38, 57744), (46, 57801), (49, 57825), (51, 57867), (56, 57939), (58, 57954), (65, 58050), (66, 58059), (70, 58119), (74, 58158), (78, 58194), (81, 58221), (83, 58227), (105, 58392), (109, 58425), (110, 58464), (112, 58494),

Gene: Yaboi_80 Start: 56313, Stop: 57389, Start Num: 7

Candidate Starts for Yaboi_80:

(Start: 7 @56313 has 73 MA's), (Start: 8 @56331 has 5 MA's), (Start: 13 @56385 has 2 MA's), (22, 56520), (34, 56595), (38, 56631), (49, 56712), (51, 56754), (56, 56826), (58, 56841), (61, 56871), (65,

56937), (70, 57006), (72, 57036), (76, 57069), (78, 57081), (81, 57108), (83, 57114), (105, 57279),
(109, 57312), (112, 57381),