

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 292632 Report

This analysis was run 04/18/26 on database version 643.

Pham number 292632 has 119 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Navo_53
- Track 2 : WhereRU_52, Persimmon_51, Bartholomune_53, Braelyn_54, Davielle_52
- Track 3 : Anedea_53
- Track 4 : Sushi23_55, Teutsch_55, Shuckle_53, Scheme_56, Larnav_55, Tribute_53, Peebs_54, Pepperwood_55
- Track 5 : Leo04_56, Cross_55, Watermoore_55, Lululemon_54, BlueOtter_55, Cursive_53, HangryHippo_55, Samisti12_55, Coogler_55, PacManQ_54
- Track 6 : Paradiddles_51, NootNoot_51
- Track 7 : Warpy_59, Jay2Jay_60
- Track 8 : Squillium_54, Liandry_54, Eliot67_52, FreddyDRoo_52, PinkiePie_53
- Track 9 : LilSaint_54, Riptide_52
- Track 10 : Marsus_53
- Track 11 : EGole_56
- Track 12 : Bmoc_53
- Track 13 : Cadmus_53, Daubenski_56
- Track 14 : Targaryen_56
- Track 15 : Evy_56
- Track 16 : Angela_52, MulchMansion_52, LilMartin_52
- Track 17 : Mildred21_53
- Track 18 : Stanimal_57, Sollertia_57, Genie2_57, AngryGiraffe_56
- Track 19 : PumpkinSpice_56, Amabiko_57, Rikishi_57, Jollison_56, Wipeout_55, Birchlyn_54, TomSawyer_55, Gibbi_61, JimJam_57, Bordeaux_55, MindFlayer_55, Spelly_57, Battuta_55, Starbow_55, Quaran19_57, SaltySpittoon_57, AcciDwight_61
- Track 20 : Wofford_56, Elmer_59
- Track 21 : LukeCage_56
- Track 22 : Karimac_56, Brizzy_56, KentuckyRacer_57, IchabodCrane_54, CeilingFan_56, Spilled_58
- Track 23 : StarPlatinum_57
- Track 24 : Yaboi_57, BoomerJR_57
- Track 25 : Mugiwara_56
- Track 26 : Tomas_59
- Track 27 : Enygma_57
- Track 28 : Karp_34, Stigma_35
- Track 29 : Kenrey_36, Phredrick_34
- Track 30 : Jada_34, Maupel_36, Gilson_36, DeluluLabubu_34, Emma1919_36, Forrest_36
- Track 31 : Beuffert_33, Blueeyedbeauty_34

- Track 32 : TunaTartare_34
- Track 33 : Belfort_36, Comrade_35, SparkleGoddess_35
- Track 34 : Sham_32
- Track 35 : Patelgo_35
- Track 36 : SeresaTree_35, Faust_35
- Track 37 : Annadreamy_32, Limpid_32
- Track 38 : Westy_35
- Track 39 : Moab_35
- Track 40 : MeganTheeKilla_34
- Track 41 : Francob_34
- Track 42 : Muntaha_31, Wakanda_31
- Track 43 : Circinus_32, BillNye_30
- Track 44 : Chaewon_34
- Track 45 : Trina_77
- Track 46 : NiceHouse_66
- Track 47 : Dorin_51, Francesca_50
- Track 48 : Nova53_48

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

The start number called the most often in the published annotations is 17, it was called in 43 of the 112 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight_61, Amabiko_57, Anedea_53, Angela_52, AngryGiraffe_56, Battuta_55, Birchlyn_54, Bmoc_53, BoomerJR_57, Bordeaux_55, Brizzy_56, CeilingFan_56, Elmer_59, Enygma_57, Genie2_57, Gibbi_61, IchabodCrane_54, JimJam_57, Jollison_56, Karimac_56, KentuckyRacer_57, LilMartin_52, LilSaint_54, LukeCage_56, Marsus_53, Mildred21_53, MindFlayer_55, Mugiwara_56, MulchMansion_52, PumpkinSpice_56, Quarant19_57, Rikishi_57, Riptide_52, SaltySpittoon_57, Sollertia_57, Spelly_57, Spilled_58, Stanimal_57, StarPlatinum_57, Starbow_55, TomSawyer_55, Tomas_59, Wipeout_55, Wofford_56, Yaboi_57,

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

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

- Annadreamy_32, Bartholomune_53, Belfort_36, Beuffert_33, BillNye_30, BlueOtter_55, Blueeyedbeauty_34, Braelyn_54, Cadmus_53, Chaewon_34, Circinus_32, Comrade_35, Coogler_55, Cross_55, Cursive_53, Daubenski_56, Davielle_52, DeluluLabubu_34, Dorin_51, EGole_56, Eliot67_52, Emma1919_36, Evy_56, Faust_35, Forrest_36, Francesca_50, Francob_34, FreddyDRoo_52, Gilson_36, HangryHippo_55, Jada_34, Jay2Jay_60, Karp_34, Kenrey_36, Larnav_55, Leo04_56, Liandry_54, Limpid_32, Lululemon_54, Maupel_36, MeganTheeKilla_34, Moab_35, Muntaha_31, Navo_53, NiceHouse_66, NootNoot_51, Nova53_48, PacManQ_54, Paradiddles_51, Patelgo_35, Peebs_54, Pepperwood_55, Persimmon_51, Phredrick_34, PinkiePie_53, Samisti12_55, Scheme_56, SeresaTree_35, Sham_32, Shuckle_53, SparkleGoddess_35, Squillium_54, Stigma_35, Sushi23_55, Targaryen_56, Teutsch_55, Tribute_53, Trina_77, TunaTartare_34, Wakanda_31, Warpy_59, Watermoore_55, Westy_35,

WhereRU_52,

Summary by start number:

Start 6:

- Found in 2 of 119 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Muntaha_31 (BK2), Wakanda_31 (BK2),

Start 7:

- Found in 3 of 119 (2.5%) of genes in pham
- Manual Annotations of this start: 2 of 112
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BillNye_30 (BK2), Circinus_32 (BK2),

Start 8:

- Found in 22 of 119 (18.5%) of genes in pham
- Manual Annotations of this start: 20 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort_36 (BK1), Comrade_35 (BK1), DeluluLabubu_34 (BK1), Emma1919_36 (BK1), Faust_35 (BK1), Forrest_36 (BK1), Francob_34 (BK1), Gilson_36 (BK1), Jada_34 (BK1), Karp_34 (BK1), Kenrey_36 (BK1), Maupel_36 (BK1), MeganTheeKilla_34 (BK1), Moab_35 (BK1), Patelgo_35 (BK1), Phredrick_34 (BK1), SeresaTree_35 (BK1), Sham_32 (BK1), SparkleGoddess_35 (BK1), Stigma_35 (BK1), TunaTartare_34 (BK1), Westy_35 (BK1),

Start 9:

- Found in 4 of 119 (3.4%) of genes in pham
- Manual Annotations of this start: 4 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy_32 (BK1), Beuffert_33 (BK1), Blueeyedbeauty_34 (BK1), Limpid_32 (BK1),

Start 11:

- Found in 7 of 119 (5.9%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Chaewon_34 (BK2),

Start 12:

- Found in 2 of 119 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse_66 (CE), Trina_77 (CE),

Start 13:

- Found in 3 of 119 (2.5%) of genes in pham
- Manual Annotations of this start: 3 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorin_51 (CG), Francesca_50 (CG), Nova53_48 (CG),

Start 16:

- Found in 38 of 119 (31.9%) of genes in pham
- Manual Annotations of this start: 34 of 112
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Bartholomune_53 (BE1), BlueOtter_55 (BE1), Braelyn_54 (BE1), Cadmus_53 (BE1), Coogler_55 (BE1), Cross_55 (BE1), Cursive_53 (BE1), Daubenski_56 (BE1), Davielle_52 (BE1), EGole_56 (BE1), Eliot67_52 (BE1), Evy_56 (BE1), FreddyDRoo_52 (BE1), HangryHippo_55 (BE1), Larnav_55 (BE1), Leo04_56 (BE1), Liandry_54 (BE1), Lululemon_54 (BE1), Navo_53 (BE1), NootNoot_51 (BE1), PacManQ_54 (BE1), Paradiddles_51 (BE1), Peebs_54 (BE1), Pepperwood_55 (BE1), Persimmon_51 (BE1), PinkiePie_53 (BE1), Samisti12_55 (BE1), Scheme_56 (BE1), Shuckle_53 (BE1), Squillium_54 (BE1), Sushi23_55 (BE1), Targaryen_56 (BE1), Teutsch_55 (BE1), Tribute_53 (BE1), Watermoore_55 (BE1), WhereRU_52 (BE1),

Start 17:

- Found in 45 of 119 (37.8%) of genes in pham
- Manual Annotations of this start: 43 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight_61 (BE2), Amabiko_57 (BE2), Anedea_53 (BE1), Angela_52 (BE1), AngryGiraffe_56 (BE2), Battuta_55 (BE2), Birchlyn_54 (BE2), Bmoc_53 (BE1), BoomerJR_57 (BE2), Bordeaux_55 (BE2), Brizzy_56 (BE2), CeilingFan_56 (BE2), Elmer_59 (BE2), Enygma_57 (BE2), Genie2_57 (BE2), Gibbi_61 (BE2), IchabodCrane_54 (BE2), JimJam_57 (BE2), Jollison_56 (BE2), Karimac_56 (BE2), KentuckyRacer_57 (BE2), LilMartin_52 (BE1), LilSaint_54 (BE1), LukeCage_56 (BE2), Marsus_53 (BE1), Mildred21_53 (BE1), MindFlayer_55 (BE2), Mugiwara_56 (BE2), MulchMansion_52 (BE1), PumpkinSpice_56 (BE2), Quarant19_57 (BE2), Rikishi_57 (BE2), Riptide_52 (BE1), SaltySpittoon_57 (BE2), Sollertia_57 (BE2), Spelly_57 (BE2), Spilled_58 (BE2), Stanimal_57 (BE2), StarPlatinum_57 (BE2), Starbow_55 (BE2), TomSawyer_55 (BE2), Tomas_59 (BE2), Wipeout_55 (BE2), Wofford_56 (BE2), Yaboi_57 (BE2),

Start 26:

- Found in 17 of 119 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 112
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Jay2Jay_60 (BE1), Warpy_59 (BE1),

Summary by clusters:

There are 6 clusters represented in this pham: CG, CE, BK1, BK2, BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 16 was manually annotated 34 times for cluster BE1.
- Start number 17 was manually annotated 9 times for cluster BE1.
- Start number 26 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 17 was manually annotated 34 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 8 was manually annotated 20 times for cluster BK1.

- Start number 9 was manually annotated 4 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 6 was manually annotated 2 times for cluster BK2.
- Start number 7 was manually annotated 2 times for cluster BK2.

Info for manual annotations of cluster CE:

- Start number 12 was manually annotated 2 times for cluster CE.

Info for manual annotations of cluster CG:

- Start number 13 was manually annotated 3 times for cluster CG.

Gene Information:

Gene: AcciDwight_61 Start: 31676, Stop: 32179, Start Num: 17

Candidate Starts for AcciDwight_61:

(Start: 17 @31676 has 43 MA's), (71, 32072), (86, 32153), (87, 32168),

Gene: Amabiko_57 Start: 31721, Stop: 32224, Start Num: 17

Candidate Starts for Amabiko_57:

(Start: 17 @31721 has 43 MA's), (71, 32117), (86, 32198), (87, 32213),

Gene: Anedea_53 Start: 31253, Stop: 31759, Start Num: 17

Candidate Starts for Anedea_53:

(2, 31166), (3, 31175), (4, 31181), (Start: 17 @31253 has 43 MA's), (22, 31283), (48, 31484), (49, 31487), (71, 31649), (79, 31697), (87, 31748),

Gene: Angela_52 Start: 30731, Stop: 31234, Start Num: 17

Candidate Starts for Angela_52:

(2, 30644), (3, 30653), (4, 30659), (Start: 17 @30731 has 43 MA's), (22, 30761), (49, 30965), (79, 31175), (87, 31223),

Gene: AngryGiraffe_56 Start: 31695, Stop: 32198, Start Num: 17

Candidate Starts for AngryGiraffe_56:

(Start: 17 @31695 has 43 MA's), (31, 31791), (39, 31860), (45, 31902), (71, 32091), (87, 32187),

Gene: Annadreamy_32 Start: 20312, Stop: 20857, Start Num: 9

Candidate Starts for Annadreamy_32:

(Start: 9 @20312 has 4 MA's), (11, 20330), (45, 20561), (48, 20585), (55, 20633), (58, 20654), (59, 20675), (73, 20753), (77, 20789), (78, 20792), (85, 20822), (87, 20846),

Gene: Bartholomune_53 Start: 31042, Stop: 31548, Start Num: 16

Candidate Starts for Bartholomune_53:

(1, 30946), (2, 30958), (3, 30967), (4, 30973), (10, 31000), (Start: 16 @31042 has 34 MA's), (Start: 26 @31102 has 2 MA's), (29, 31135), (36, 31177), (49, 31279), (59, 31366), (66, 31417), (79, 31489), (87, 31537),

Gene: Battuta_55 Start: 31695, Stop: 32198, Start Num: 17

Candidate Starts for Battuta_55:

(Start: 17 @31695 has 43 MA's), (71, 32091), (86, 32172), (87, 32187),

Gene: Belfort_36 Start: 22825, Stop: 23370, Start Num: 8
Candidate Starts for Belfort_36:
(Start: 8 @22825 has 20 MA's), (37, 23005), (51, 23125), (55, 23146), (56, 23155), (58, 23167), (62, 23224), (76, 23290), (77, 23302), (85, 23335),

Gene: Beuffert_33 Start: 21407, Stop: 21952, Start Num: 9
Candidate Starts for Beuffert_33:
(Start: 9 @21407 has 4 MA's), (11, 21425), (45, 21656), (48, 21680), (55, 21728), (58, 21749), (59, 21770), (73, 21848), (77, 21884), (85, 21917), (87, 21941),

Gene: BillNye_30 Start: 23720, Stop: 24247, Start Num: 7
Candidate Starts for BillNye_30:
(Start: 7 @23720 has 2 MA's), (11, 23738), (39, 23918), (55, 24032), (58, 24053), (59, 24074), (77, 24182), (80, 24191), (84, 24209), (85, 24215),

Gene: Birchlyn_54 Start: 29578, Stop: 30081, Start Num: 17
Candidate Starts for Birchlyn_54:
(Start: 17 @29578 has 43 MA's), (71, 29974), (86, 30055), (87, 30070),

Gene: BlueOtter_55 Start: 32406, Stop: 32912, Start Num: 16
Candidate Starts for BlueOtter_55:
(Start: 16 @32406 has 34 MA's), (28, 32487), (30, 32502), (48, 32640), (66, 32781), (69, 32799), (79, 32853), (82, 32862), (87, 32901),

Gene: Blueeyedbeauty_34 Start: 20804, Stop: 21349, Start Num: 9
Candidate Starts for Blueeyedbeauty_34:
(Start: 9 @20804 has 4 MA's), (11, 20822), (45, 21053), (48, 21077), (55, 21125), (58, 21146), (59, 21167), (73, 21245), (77, 21281), (85, 21314), (87, 21338),

Gene: Bmoc_53 Start: 31038, Stop: 31544, Start Num: 17
Candidate Starts for Bmoc_53:
(Start: 17 @31038 has 43 MA's), (22, 31068), (48, 31269), (49, 31272), (59, 31359), (71, 31434), (79, 31482), (82, 31491), (87, 31533),

Gene: BoomerJR_57 Start: 31584, Stop: 32087, Start Num: 17
Candidate Starts for BoomerJR_57:
(Start: 17 @31584 has 43 MA's), (31, 31680), (39, 31749), (71, 31980), (87, 32076),

Gene: Bordeaux_55 Start: 31850, Stop: 32353, Start Num: 17
Candidate Starts for Bordeaux_55:
(Start: 17 @31850 has 43 MA's), (71, 32246), (86, 32327), (87, 32342),

Gene: Braelyn_54 Start: 31809, Stop: 32315, Start Num: 16
Candidate Starts for Braelyn_54:
(1, 31713), (2, 31725), (3, 31734), (4, 31740), (10, 31767), (Start: 16 @31809 has 34 MA's), (Start: 26 @31869 has 2 MA's), (29, 31902), (36, 31944), (49, 32046), (59, 32133), (66, 32184), (79, 32256), (87, 32304),

Gene: Brizzy_56 Start: 31369, Stop: 31872, Start Num: 17
Candidate Starts for Brizzy_56:
(Start: 17 @31369 has 43 MA's), (68, 31756), (71, 31765), (86, 31846), (87, 31861),

Gene: Cadmus_53 Start: 31388, Stop: 31894, Start Num: 16

Candidate Starts for Cadmus_53:

(Start: 16 @31388 has 34 MA's), (28, 31469), (30, 31484), (31, 31487), (37, 31532), (48, 31622), (66, 31763), (79, 31835), (87, 31883),

Gene: CeilingFan_56 Start: 31610, Stop: 32113, Start Num: 17

Candidate Starts for CeilingFan_56:

(Start: 17 @31610 has 43 MA's), (68, 31997), (71, 32006), (86, 32087), (87, 32102),

Gene: Chaewon_34 Start: 23866, Stop: 24375, Start Num: 11

Candidate Starts for Chaewon_34:

(Start: 7 @23845 has 2 MA's), (11, 23866), (39, 24046), (55, 24160), (58, 24181), (77, 24310), (80, 24319), (84, 24337), (85, 24343),

Gene: Circinus_32 Start: 23856, Stop: 24383, Start Num: 7

Candidate Starts for Circinus_32:

(Start: 7 @23856 has 2 MA's), (11, 23874), (39, 24054), (55, 24168), (58, 24189), (59, 24210), (77, 24318), (80, 24327), (84, 24345), (85, 24351),

Gene: Comrade_35 Start: 22440, Stop: 22985, Start Num: 8

Candidate Starts for Comrade_35:

(Start: 8 @22440 has 20 MA's), (37, 22620), (51, 22740), (55, 22761), (56, 22770), (58, 22782), (62, 22839), (76, 22905), (77, 22917), (85, 22950),

Gene: Coogler_55 Start: 32432, Stop: 32938, Start Num: 16

Candidate Starts for Coogler_55:

(Start: 16 @32432 has 34 MA's), (28, 32513), (30, 32528), (48, 32666), (66, 32807), (69, 32825), (79, 32879), (82, 32888), (87, 32927),

Gene: Cross_55 Start: 32407, Stop: 32913, Start Num: 16

Candidate Starts for Cross_55:

(Start: 16 @32407 has 34 MA's), (28, 32488), (30, 32503), (48, 32641), (66, 32782), (69, 32800), (79, 32854), (82, 32863), (87, 32902),

Gene: Cursive_53 Start: 31932, Stop: 32438, Start Num: 16

Candidate Starts for Cursive_53:

(Start: 16 @31932 has 34 MA's), (28, 32013), (30, 32028), (48, 32166), (66, 32307), (69, 32325), (79, 32379), (82, 32388), (87, 32427),

Gene: Daubenski_56 Start: 32152, Stop: 32658, Start Num: 16

Candidate Starts for Daubenski_56:

(Start: 16 @32152 has 34 MA's), (28, 32233), (30, 32248), (31, 32251), (37, 32296), (48, 32386), (66, 32527), (79, 32599), (87, 32647),

Gene: Davielle_52 Start: 31226, Stop: 31732, Start Num: 16

Candidate Starts for Davielle_52:

(1, 31130), (2, 31142), (3, 31151), (4, 31157), (10, 31184), (Start: 16 @31226 has 34 MA's), (Start: 26 @31286 has 2 MA's), (29, 31319), (36, 31361), (49, 31463), (59, 31550), (66, 31601), (79, 31673), (87, 31721),

Gene: DeluluLabubu_34 Start: 20523, Stop: 21077, Start Num: 8

Candidate Starts for DeluluLabubu_34:

(Start: 8 @20523 has 20 MA's), (35, 20688), (37, 20703), (47, 20790), (51, 20832), (55, 20853), (57, 20865), (58, 20874), (76, 20997), (77, 21009), (85, 21042),

Gene: Dorin_51 Start: 31412, Stop: 31951, Start Num: 13

Candidate Starts for Dorin_51:

(Start: 13 @31412 has 3 MA's), (25, 31484), (32, 31529), (35, 31556), (43, 31622), (50, 31688), (56, 31721), (63, 31805), (64, 31811), (76, 31871),

Gene: EGole_56 Start: 33311, Stop: 33868, Start Num: 16

Candidate Starts for EGole_56:

(Start: 16 @33311 has 34 MA's), (28, 33392), (30, 33407), (48, 33545), (59, 33635), (69, 33725), (79, 33779), (82, 33788), (83, 33794), (88, 33857),

Gene: Eliot67_52 Start: 31039, Stop: 31590, Start Num: 16

Candidate Starts for Eliot67_52:

(1, 30943), (2, 30955), (3, 30964), (4, 30970), (10, 30997), (Start: 16 @31039 has 34 MA's), (Start: 26 @31099 has 2 MA's), (49, 31276), (59, 31363), (66, 31414), (69, 31432), (79, 31486), (86, 31519), (89, 31573), (90, 31579),

Gene: Elmer_59 Start: 32757, Stop: 33260, Start Num: 17

Candidate Starts for Elmer_59:

(Start: 17 @32757 has 43 MA's), (22, 32787), (25, 32811), (36, 32889), (37, 32898), (53, 33024), (55, 33036), (71, 33153), (87, 33249),

Gene: Emma1919_36 Start: 21218, Stop: 21772, Start Num: 8

Candidate Starts for Emma1919_36:

(Start: 8 @21218 has 20 MA's), (35, 21383), (37, 21398), (47, 21485), (51, 21527), (55, 21548), (57, 21560), (58, 21569), (76, 21692), (77, 21704), (85, 21737),

Gene: Enygma_57 Start: 33532, Stop: 34035, Start Num: 17

Candidate Starts for Enygma_57:

(Start: 17 @33532 has 43 MA's), (22, 33562), (27, 33601), (28, 33610), (60, 33865), (71, 33928), (82, 33985), (87, 34024),

Gene: Evy_56 Start: 32408, Stop: 32914, Start Num: 16

Candidate Starts for Evy_56:

(1, 32312), (2, 32324), (4, 32339), (10, 32366), (Start: 16 @32408 has 34 MA's), (Start: 26 @32468 has 2 MA's), (28, 32489), (31, 32507), (59, 32732), (66, 32783), (69, 32801), (79, 32855), (82, 32864), (87, 32903),

Gene: Faust_35 Start: 21811, Stop: 22359, Start Num: 8

Candidate Starts for Faust_35:

(Start: 8 @21811 has 20 MA's), (14, 21847), (36, 21985), (42, 22036), (55, 22135), (56, 22144), (57, 22147), (58, 22156), (59, 22177), (77, 22291), (78, 22294), (85, 22324),

Gene: Forrest_36 Start: 21341, Stop: 21895, Start Num: 8

Candidate Starts for Forrest_36:

(Start: 8 @21341 has 20 MA's), (35, 21506), (37, 21521), (47, 21608), (51, 21650), (55, 21671), (57, 21683), (58, 21692), (76, 21815), (77, 21827), (85, 21860),

Gene: Francesca_50 Start: 31544, Stop: 32083, Start Num: 13

Candidate Starts for Francesca_50:

(Start: 13 @31544 has 3 MA's), (25, 31616), (32, 31661), (35, 31688), (43, 31754), (50, 31820), (56, 31853), (63, 31937), (64, 31943), (76, 32003),

Gene: Francob_34 Start: 21349, Stop: 21903, Start Num: 8

Candidate Starts for Francob_34:

(Start: 8 @21349 has 20 MA's), (37, 21529), (41, 21568), (42, 21571), (55, 21679), (56, 21688), (64, 21766), (76, 21823),

Gene: FreddyDRoo_52 Start: 31039, Stop: 31590, Start Num: 16

Candidate Starts for FreddyDRoo_52:

(1, 30943), (2, 30955), (3, 30964), (4, 30970), (10, 30997), (Start: 16 @31039 has 34 MA's), (Start: 26 @31099 has 2 MA's), (49, 31276), (59, 31363), (66, 31414), (69, 31432), (79, 31486), (86, 31519), (89, 31573), (90, 31579),

Gene: Genie2_57 Start: 31698, Stop: 32201, Start Num: 17

Candidate Starts for Genie2_57:

(Start: 17 @31698 has 43 MA's), (31, 31794), (39, 31863), (45, 31905), (71, 32094), (87, 32190),

Gene: Gibbi_61 Start: 31833, Stop: 32336, Start Num: 17

Candidate Starts for Gibbi_61:

(Start: 17 @31833 has 43 MA's), (71, 32229), (86, 32310), (87, 32325),

Gene: Gilson_36 Start: 21171, Stop: 21725, Start Num: 8

Candidate Starts for Gilson_36:

(Start: 8 @21171 has 20 MA's), (35, 21336), (37, 21351), (47, 21438), (51, 21480), (55, 21501), (57, 21513), (58, 21522), (76, 21645), (77, 21657), (85, 21690),

Gene: HangryHippo_55 Start: 32406, Stop: 32912, Start Num: 16

Candidate Starts for HangryHippo_55:

(Start: 16 @32406 has 34 MA's), (28, 32487), (30, 32502), (48, 32640), (66, 32781), (69, 32799), (79, 32853), (82, 32862), (87, 32901),

Gene: IchabodCrane_54 Start: 31422, Stop: 31925, Start Num: 17

Candidate Starts for IchabodCrane_54:

(Start: 17 @31422 has 43 MA's), (68, 31809), (71, 31818), (86, 31899), (87, 31914),

Gene: Jada_34 Start: 20523, Stop: 21077, Start Num: 8

Candidate Starts for Jada_34:

(Start: 8 @20523 has 20 MA's), (35, 20688), (37, 20703), (47, 20790), (51, 20832), (55, 20853), (57, 20865), (58, 20874), (76, 20997), (77, 21009), (85, 21042),

Gene: Jay2Jay_60 Start: 33276, Stop: 33767, Start Num: 26

Candidate Starts for Jay2Jay_60:

(1, 33120), (2, 33132), (4, 33147), (10, 33174), (Start: 16 @33216 has 34 MA's), (Start: 26 @33276 has 2 MA's), (28, 33297), (59, 33540), (66, 33591), (69, 33609), (79, 33663), (82, 33672), (86, 33696), (89, 33750), (90, 33756),

Gene: JimJam_57 Start: 31796, Stop: 32299, Start Num: 17

Candidate Starts for JimJam_57:

(Start: 17 @31796 has 43 MA's), (71, 32192), (86, 32273), (87, 32288),

Gene: Jollison_56 Start: 31678, Stop: 32181, Start Num: 17

Candidate Starts for Jollison_56:

(Start: 17 @31678 has 43 MA's), (71, 32074), (86, 32155), (87, 32170),

Gene: Karimac_56 Start: 31827, Stop: 32330, Start Num: 17

Candidate Starts for Karimac_56:

(Start: 17 @31827 has 43 MA's), (68, 32214), (71, 32223), (86, 32304), (87, 32319),

Gene: Karp_34 Start: 22040, Stop: 22585, Start Num: 8

Candidate Starts for Karp_34:

(Start: 8 @22040 has 20 MA's), (37, 22220), (55, 22361), (56, 22370), (58, 22382), (62, 22439), (76, 22505), (77, 22517), (85, 22550),

Gene: Kenrey_36 Start: 21220, Stop: 21774, Start Num: 8

Candidate Starts for Kenrey_36:

(Start: 8 @21220 has 20 MA's), (35, 21385), (37, 21400), (48, 21493), (55, 21550), (57, 21562), (58, 21571), (77, 21706), (78, 21709), (85, 21739),

Gene: KentuckyRacer_57 Start: 31611, Stop: 32114, Start Num: 17

Candidate Starts for KentuckyRacer_57:

(Start: 17 @31611 has 43 MA's), (68, 31998), (71, 32007), (86, 32088), (87, 32103),

Gene: Larnav_55 Start: 32391, Stop: 32897, Start Num: 16

Candidate Starts for Larnav_55:

(Start: 16 @32391 has 34 MA's), (28, 32472), (30, 32487), (48, 32625), (59, 32715), (66, 32766), (69, 32784), (79, 32838), (82, 32847), (87, 32886),

Gene: Leo04_56 Start: 32906, Stop: 33412, Start Num: 16

Candidate Starts for Leo04_56:

(Start: 16 @32906 has 34 MA's), (28, 32987), (30, 33002), (48, 33140), (66, 33281), (69, 33299), (79, 33353), (82, 33362), (87, 33401),

Gene: Liandry_54 Start: 31746, Stop: 32297, Start Num: 16

Candidate Starts for Liandry_54:

(1, 31650), (2, 31662), (3, 31671), (4, 31677), (10, 31704), (Start: 16 @31746 has 34 MA's), (Start: 26 @31806 has 2 MA's), (49, 31983), (59, 32070), (66, 32121), (69, 32139), (79, 32193), (86, 32226), (89, 32280), (90, 32286),

Gene: LilMartin_52 Start: 30679, Stop: 31182, Start Num: 17

Candidate Starts for LilMartin_52:

(2, 30592), (3, 30601), (4, 30607), (Start: 17 @30679 has 43 MA's), (22, 30709), (49, 30913), (79, 31123), (87, 31171),

Gene: LilSaint_54 Start: 30925, Stop: 31431, Start Num: 17

Candidate Starts for LilSaint_54:

(2, 30838), (3, 30847), (4, 30853), (Start: 17 @30925 has 43 MA's), (22, 30955), (49, 31159), (50, 31180), (59, 31246), (71, 31321), (79, 31369), (87, 31420),

Gene: Limpid_32 Start: 20311, Stop: 20856, Start Num: 9

Candidate Starts for Limpid_32:

(Start: 9 @20311 has 4 MA's), (11, 20329), (45, 20560), (48, 20584), (55, 20632), (58, 20653), (59, 20674), (73, 20752), (77, 20788), (78, 20791), (85, 20821), (87, 20845),

Gene: LukeCage_56 Start: 31578, Stop: 32081, Start Num: 17

Candidate Starts for LukeCage_56:

(Start: 17 @31578 has 43 MA's), (31, 31674), (39, 31743), (68, 31965), (71, 31974), (87, 32070),

Gene: Lululemon_54 Start: 31787, Stop: 32293, Start Num: 16

Candidate Starts for Lululemon_54:

(Start: 16 @31787 has 34 MA's), (28, 31868), (30, 31883), (48, 32021), (66, 32162), (69, 32180), (79, 32234), (82, 32243), (87, 32282),

Gene: Marsus_53 Start: 30951, Stop: 31454, Start Num: 17

Candidate Starts for Marsus_53:

(2, 30864), (3, 30873), (4, 30879), (Start: 17 @30951 has 43 MA's), (22, 30981), (49, 31185), (59, 31272), (79, 31395), (87, 31443),

Gene: Maupel_36 Start: 21171, Stop: 21725, Start Num: 8

Candidate Starts for Maupel_36:

(Start: 8 @21171 has 20 MA's), (35, 21336), (37, 21351), (47, 21438), (51, 21480), (55, 21501), (57, 21513), (58, 21522), (76, 21645), (77, 21657), (85, 21690),

Gene: MeganTheeKilla_34 Start: 20532, Stop: 21086, Start Num: 8

Candidate Starts for MeganTheeKilla_34:

(Start: 8 @20532 has 20 MA's), (35, 20697), (37, 20712), (47, 20799), (51, 20841), (55, 20862), (57, 20874), (58, 20883), (76, 21006), (77, 21018), (78, 21021), (85, 21051),

Gene: Mildred21_53 Start: 30872, Stop: 31375, Start Num: 17

Candidate Starts for Mildred21_53:

(Start: 17 @30872 has 43 MA's), (49, 31106), (71, 31268), (79, 31316), (81, 31322), (87, 31364),

Gene: MindFlayer_55 Start: 31329, Stop: 31832, Start Num: 17

Candidate Starts for MindFlayer_55:

(Start: 17 @31329 has 43 MA's), (71, 31725), (86, 31806), (87, 31821),

Gene: Moab_35 Start: 22371, Stop: 22916, Start Num: 8

Candidate Starts for Moab_35:

(Start: 8 @22371 has 20 MA's), (37, 22551), (41, 22590), (42, 22593), (55, 22692), (58, 22713), (62, 22770), (75, 22830), (77, 22848), (78, 22851), (85, 22881),

Gene: Mugiwara_56 Start: 32077, Stop: 32580, Start Num: 17

Candidate Starts for Mugiwara_56:

(Start: 17 @32077 has 43 MA's), (60, 32410), (71, 32473), (87, 32569),

Gene: MulchMansion_52 Start: 30679, Stop: 31182, Start Num: 17

Candidate Starts for MulchMansion_52:

(2, 30592), (3, 30601), (4, 30607), (Start: 17 @30679 has 43 MA's), (22, 30709), (49, 30913), (79, 31123), (87, 31171),

Gene: Muntaha_31 Start: 22171, Stop: 22716, Start Num: 6

Candidate Starts for Muntaha_31:

(Start: 6 @22171 has 2 MA's), (39, 22387), (55, 22501), (57, 22513), (58, 22522), (59, 22543), (65, 22594), (77, 22651), (84, 22678), (85, 22684),

Gene: Navo_53 Start: 31704, Stop: 32210, Start Num: 16

Candidate Starts for Navo_53:

(1, 31608), (2, 31620), (4, 31635), (Start: 16 @31704 has 34 MA's), (Start: 26 @31764 has 2 MA's), (59, 32028), (66, 32079), (79, 32151), (87, 32199),

Gene: NiceHouse_66 Start: 37810, Stop: 38346, Start Num: 12

Candidate Starts for NiceHouse_66:

(Start: 12 @37810 has 2 MA's), (20, 37843), (21, 37858), (24, 37882), (25, 37885), (27, 37900), (31, 37927), (48, 38068), (52, 38098), (54, 38107), (56, 38125), (59, 38158), (63, 38200), (70, 38233), (72, 38239), (87, 38335),

Gene: NootNoot_51 Start: 30660, Stop: 31211, Start Num: 16

Candidate Starts for NootNoot_51:

(1, 30564), (2, 30576), (4, 30591), (5, 30603), (10, 30618), (Start: 16 @30660 has 34 MA's), (Start: 26 @30720 has 2 MA's), (49, 30897), (59, 30984), (66, 31035), (69, 31053), (79, 31107), (86, 31140), (89, 31194), (90, 31200),

Gene: Nova53_48 Start: 31545, Stop: 32081, Start Num: 13

Candidate Starts for Nova53_48:

(Start: 13 @31545 has 3 MA's), (25, 31617), (31, 31659), (32, 31662), (34, 31686), (44, 31761), (46, 31788), (56, 31854), (63, 31935), (64, 31941), (76, 32001),

Gene: PacManQ_54 Start: 31787, Stop: 32293, Start Num: 16

Candidate Starts for PacManQ_54:

(Start: 16 @31787 has 34 MA's), (28, 31868), (30, 31883), (48, 32021), (66, 32162), (69, 32180), (79, 32234), (82, 32243), (87, 32282),

Gene: Paradiddles_51 Start: 30921, Stop: 31472, Start Num: 16

Candidate Starts for Paradiddles_51:

(1, 30825), (2, 30837), (4, 30852), (5, 30864), (10, 30879), (Start: 16 @30921 has 34 MA's), (Start: 26 @30981 has 2 MA's), (49, 31158), (59, 31245), (66, 31296), (69, 31314), (79, 31368), (86, 31401), (89, 31455), (90, 31461),

Gene: Patelgo_35 Start: 22561, Stop: 23106, Start Num: 8

Candidate Starts for Patelgo_35:

(Start: 8 @22561 has 20 MA's), (37, 22741), (41, 22780), (42, 22783), (55, 22882), (58, 22903), (62, 22960), (75, 23020), (77, 23038), (78, 23041), (85, 23071), (87, 23095),

Gene: Peebs_54 Start: 32144, Stop: 32650, Start Num: 16

Candidate Starts for Peebs_54:

(Start: 16 @32144 has 34 MA's), (28, 32225), (30, 32240), (48, 32378), (59, 32468), (66, 32519), (69, 32537), (79, 32591), (82, 32600), (87, 32639),

Gene: Pepperwood_55 Start: 32277, Stop: 32783, Start Num: 16

Candidate Starts for Pepperwood_55:

(Start: 16 @32277 has 34 MA's), (28, 32358), (30, 32373), (48, 32511), (59, 32601), (66, 32652), (69, 32670), (79, 32724), (82, 32733), (87, 32772),

Gene: Persimmon_51 Start: 30635, Stop: 31141, Start Num: 16

Candidate Starts for Persimmon_51:

(1, 30539), (2, 30551), (3, 30560), (4, 30566), (10, 30593), (Start: 16 @30635 has 34 MA's), (Start: 26 @30695 has 2 MA's), (29, 30728), (36, 30770), (49, 30872), (59, 30959), (66, 31010), (79, 31082), (87, 31130),

Gene: Phredrick_34 Start: 20426, Stop: 20980, Start Num: 8

Candidate Starts for Phredrick_34:

(Start: 8 @20426 has 20 MA's), (35, 20591), (37, 20606), (48, 20699), (55, 20756), (57, 20768), (58, 20777), (77, 20912), (78, 20915), (85, 20945),

Gene: PinkiePie_53 Start: 31746, Stop: 32297, Start Num: 16

Candidate Starts for PinkiePie_53:

(1, 31650), (2, 31662), (3, 31671), (4, 31677), (10, 31704), (Start: 16 @31746 has 34 MA's), (Start: 26 @31806 has 2 MA's), (49, 31983), (59, 32070), (66, 32121), (69, 32139), (79, 32193), (86, 32226), (89, 32280), (90, 32286),

Gene: PumpkinSpice_56 Start: 31721, Stop: 32224, Start Num: 17

Candidate Starts for PumpkinSpice_56:

(Start: 17 @31721 has 43 MA's), (71, 32117), (86, 32198), (87, 32213),

Gene: Quaran19_57 Start: 31712, Stop: 32215, Start Num: 17

Candidate Starts for Quaran19_57:

(Start: 17 @31712 has 43 MA's), (71, 32108), (86, 32189), (87, 32204),

Gene: Rikishi_57 Start: 31627, Stop: 32130, Start Num: 17

Candidate Starts for Rikishi_57:

(Start: 17 @31627 has 43 MA's), (71, 32023), (86, 32104), (87, 32119),

Gene: Riptide_52 Start: 30474, Stop: 30980, Start Num: 17

Candidate Starts for Riptide_52:

(2, 30387), (3, 30396), (4, 30402), (Start: 17 @30474 has 43 MA's), (22, 30504), (49, 30708), (50, 30729), (59, 30795), (71, 30870), (79, 30918), (87, 30969),

Gene: SaltySpittoon_57 Start: 31721, Stop: 32224, Start Num: 17

Candidate Starts for SaltySpittoon_57:

(Start: 17 @31721 has 43 MA's), (71, 32117), (86, 32198), (87, 32213),

Gene: Samisti12_55 Start: 33580, Stop: 34086, Start Num: 16

Candidate Starts for Samisti12_55:

(Start: 16 @33580 has 34 MA's), (28, 33661), (30, 33676), (48, 33814), (66, 33955), (69, 33973), (79, 34027), (82, 34036), (87, 34075),

Gene: Scheme_56 Start: 32991, Stop: 33497, Start Num: 16

Candidate Starts for Scheme_56:

(Start: 16 @32991 has 34 MA's), (28, 33072), (30, 33087), (48, 33225), (59, 33315), (66, 33366), (69, 33384), (79, 33438), (82, 33447), (87, 33486),

Gene: SeresaTree_35 Start: 21201, Stop: 21749, Start Num: 8

Candidate Starts for SeresaTree_35:

(Start: 8 @21201 has 20 MA's), (14, 21237), (36, 21375), (42, 21426), (55, 21525), (56, 21534), (57, 21537), (58, 21546), (59, 21567), (77, 21681), (78, 21684), (85, 21714),

Gene: Sham_32 Start: 22298, Stop: 22846, Start Num: 8

Candidate Starts for Sham_32:

(Start: 8 @22298 has 20 MA's), (32, 22439), (33, 22448), (36, 22472), (41, 22520), (42, 22523), (45, 22550), (55, 22622), (56, 22631), (58, 22643), (61, 22679), (77, 22778), (85, 22811), (87, 22835),

Gene: Shuckle_53 Start: 32597, Stop: 33103, Start Num: 16

Candidate Starts for Shuckle_53:

(Start: 16 @32597 has 34 MA's), (28, 32678), (30, 32693), (48, 32831), (59, 32921), (66, 32972), (69, 32990), (79, 33044), (82, 33053), (87, 33092),

Gene: Sollertia_57 Start: 31698, Stop: 32201, Start Num: 17

Candidate Starts for Sollertia_57:

(Start: 17 @31698 has 43 MA's), (31, 31794), (39, 31863), (45, 31905), (71, 32094), (87, 32190),

Gene: SparkleGoddess_35 Start: 22442, Stop: 22987, Start Num: 8

Candidate Starts for SparkleGoddess_35:

(Start: 8 @22442 has 20 MA's), (37, 22622), (51, 22742), (55, 22763), (56, 22772), (58, 22784), (62, 22841), (76, 22907), (77, 22919), (85, 22952),

Gene: Spelly_57 Start: 31676, Stop: 32179, Start Num: 17

Candidate Starts for Spelly_57:

(Start: 17 @31676 has 43 MA's), (71, 32072), (86, 32153), (87, 32168),

Gene: Spilled_58 Start: 31793, Stop: 32296, Start Num: 17

Candidate Starts for Spilled_58:

(Start: 17 @31793 has 43 MA's), (68, 32180), (71, 32189), (86, 32270), (87, 32285),

Gene: Squillium_54 Start: 31747, Stop: 32298, Start Num: 16

Candidate Starts for Squillium_54:

(1, 31651), (2, 31663), (3, 31672), (4, 31678), (10, 31705), (Start: 16 @31747 has 34 MA's), (Start: 26 @31807 has 2 MA's), (49, 31984), (59, 32071), (66, 32122), (69, 32140), (79, 32194), (86, 32227), (89, 32281), (90, 32287),

Gene: Stanimal_57 Start: 31587, Stop: 32090, Start Num: 17

Candidate Starts for Stanimal_57:

(Start: 17 @31587 has 43 MA's), (31, 31683), (39, 31752), (45, 31794), (71, 31983), (87, 32079),

Gene: StarPlatinum_57 Start: 32221, Stop: 32724, Start Num: 17

Candidate Starts for StarPlatinum_57:

(Start: 17 @32221 has 43 MA's), (39, 32386), (60, 32554), (68, 32608), (71, 32617), (87, 32713),

Gene: Starbow_55 Start: 31697, Stop: 32200, Start Num: 17

Candidate Starts for Starbow_55:

(Start: 17 @31697 has 43 MA's), (71, 32093), (86, 32174), (87, 32189),

Gene: Stigma_35 Start: 22443, Stop: 22988, Start Num: 8

Candidate Starts for Stigma_35:

(Start: 8 @22443 has 20 MA's), (37, 22623), (55, 22764), (56, 22773), (58, 22785), (62, 22842), (76, 22908), (77, 22920), (85, 22953),

Gene: Sushi23_55 Start: 32502, Stop: 33008, Start Num: 16

Candidate Starts for Sushi23_55:

(Start: 16 @32502 has 34 MA's), (28, 32583), (30, 32598), (48, 32736), (59, 32826), (66, 32877), (69, 32895), (79, 32949), (82, 32958), (87, 32997),

Gene: Targaryen_56 Start: 33265, Stop: 33816, Start Num: 16

Candidate Starts for Targaryen_56:

(1, 33169), (2, 33181), (4, 33196), (10, 33223), (Start: 16 @33265 has 34 MA's), (Start: 26 @33325 has 2 MA's), (28, 33346), (59, 33589), (66, 33640), (69, 33658), (79, 33712), (82, 33721), (86, 33745), (89, 33799), (90, 33805),

Gene: Teutsch_55 Start: 32771, Stop: 33277, Start Num: 16

Candidate Starts for Teutsch_55:

(Start: 16 @32771 has 34 MA's), (28, 32852), (30, 32867), (48, 33005), (59, 33095), (66, 33146), (69, 33164), (79, 33218), (82, 33227), (87, 33266),

Gene: TomSawyer_55 Start: 31315, Stop: 31818, Start Num: 17
Candidate Starts for TomSawyer_55:
(Start: 17 @31315 has 43 MA's), (71, 31711), (86, 31792), (87, 31807),

Gene: Tomas_59 Start: 34046, Stop: 34549, Start Num: 17
Candidate Starts for Tomas_59:
(5, 33989), (Start: 17 @34046 has 43 MA's), (22, 34076), (23, 34088), (31, 34142), (37, 34187), (39, 34211), (71, 34442), (74, 34451), (81, 34496), (86, 34523), (87, 34538),

Gene: Tribute_53 Start: 31971, Stop: 32477, Start Num: 16
Candidate Starts for Tribute_53:
(Start: 16 @31971 has 34 MA's), (28, 32052), (30, 32067), (48, 32205), (59, 32295), (66, 32346), (69, 32364), (79, 32418), (82, 32427), (87, 32466),

Gene: Trina_77 Start: 41278, Stop: 41826, Start Num: 12
Candidate Starts for Trina_77:
(Start: 12 @41278 has 2 MA's), (15, 41296), (18, 41302), (19, 41308), (25, 41353), (37, 41440), (38, 41467), (40, 41479), (42, 41485), (46, 41527), (67, 41701),

Gene: TunaTartare_34 Start: 22591, Stop: 23139, Start Num: 8
Candidate Starts for TunaTartare_34:
(Start: 8 @22591 has 20 MA's), (32, 22732), (33, 22741), (36, 22765), (42, 22816), (55, 22915), (56, 22924), (58, 22936), (75, 23053), (77, 23071), (85, 23104), (87, 23128),

Gene: Wakanda_31 Start: 22109, Stop: 22654, Start Num: 6
Candidate Starts for Wakanda_31:
(Start: 6 @22109 has 2 MA's), (39, 22325), (55, 22439), (57, 22451), (58, 22460), (59, 22481), (65, 22532), (77, 22589), (84, 22616), (85, 22622),

Gene: Warpy_59 Start: 32789, Stop: 33280, Start Num: 26
Candidate Starts for Warpy_59:
(1, 32633), (2, 32645), (4, 32660), (10, 32687), (Start: 16 @32729 has 34 MA's), (Start: 26 @32789 has 2 MA's), (28, 32810), (59, 33053), (66, 33104), (69, 33122), (79, 33176), (82, 33185), (86, 33209), (89, 33263), (90, 33269),

Gene: Watermoore_55 Start: 32978, Stop: 33484, Start Num: 16
Candidate Starts for Watermoore_55:
(Start: 16 @32978 has 34 MA's), (28, 33059), (30, 33074), (48, 33212), (66, 33353), (69, 33371), (79, 33425), (82, 33434), (87, 33473),

Gene: Westy_35 Start: 22443, Stop: 22988, Start Num: 8
Candidate Starts for Westy_35:
(Start: 8 @22443 has 20 MA's), (37, 22623), (51, 22743), (55, 22764), (56, 22773), (58, 22785), (62, 22842), (76, 22908), (77, 22920), (85, 22953),

Gene: WhereRU_52 Start: 31226, Stop: 31732, Start Num: 16
Candidate Starts for WhereRU_52:
(1, 31130), (2, 31142), (3, 31151), (4, 31157), (10, 31184), (Start: 16 @31226 has 34 MA's), (Start: 26 @31286 has 2 MA's), (29, 31319), (36, 31361), (49, 31463), (59, 31550), (66, 31601), (79, 31673), (87, 31721),

Gene: Wipeout_55 Start: 32066, Stop: 32569, Start Num: 17

Candidate Starts for Wipeout_55:

(Start: 17 @32066 has 43 MA's), (71, 32462), (86, 32543), (87, 32558),

Gene: Wofford_56 Start: 32720, Stop: 33223, Start Num: 17

Candidate Starts for Wofford_56:

(Start: 17 @32720 has 43 MA's), (22, 32750), (25, 32774), (36, 32852), (37, 32861), (53, 32987), (55, 32999), (71, 33116), (87, 33212),

Gene: Yaboi_57 Start: 31675, Stop: 32178, Start Num: 17

Candidate Starts for Yaboi_57:

(Start: 17 @31675 has 43 MA's), (31, 31771), (39, 31840), (71, 32071), (87, 32167),