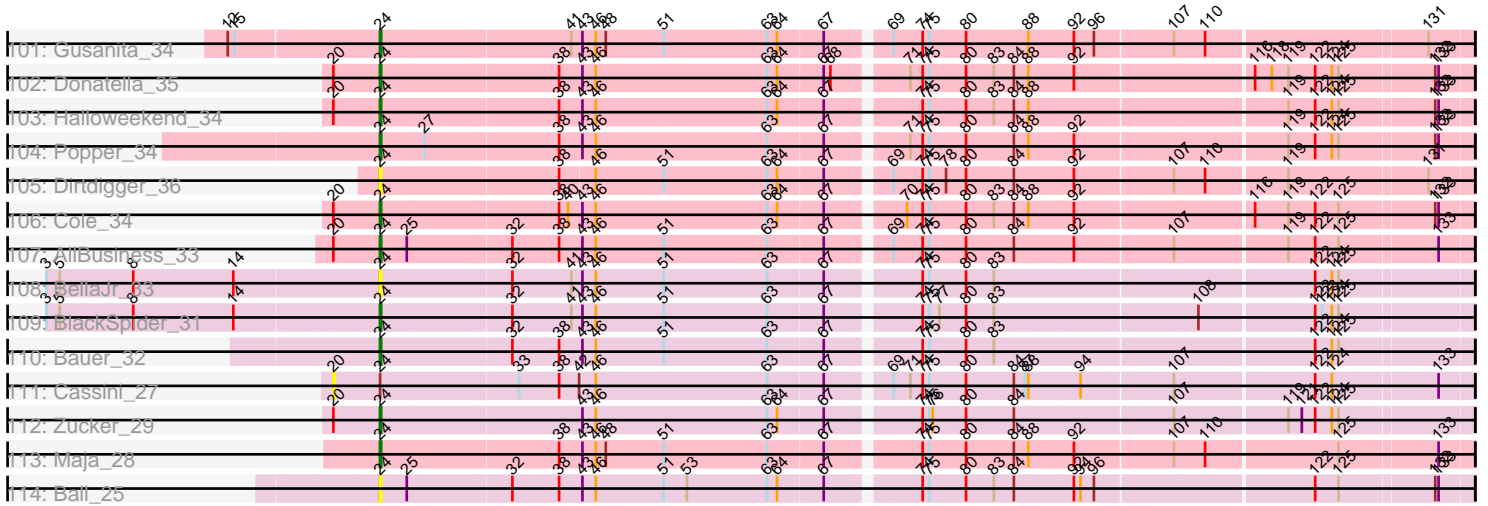


Pham 311336



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 311336 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311336 has 146 members, 31 are drafts.

Phages represented in each track:

- Track 1 : GramZayde_37
- Track 2 : Seahorse_38
- Track 3 : MaterMagnus_36
- Track 4 : Crescenzo_35
- Track 5 : Hillester_36, RadFad_36
- Track 6 : MUWow_35
- Track 7 : BenchScraper_36
- Track 8 : Isolde_36
- Track 9 : CookieBear_36, Sporco_37, Aikyam_33, Sakai_36, Auxilium_34, Raphaella_36, Mapleville_35, Kabloowy_36, Gorpy_37, BillyTP_37, YoungHarleezy_36
- Track 10 : JellyBread_32
- Track 11 : Tiff81_32
- Track 12 : SonDevVon_36
- Track 13 : MidnightRain_38
- Track 14 : CosmicBrownie_36, GumGum_37
- Track 15 : MurphyJoseph_33
- Track 16 : Vopal_39
- Track 17 : Lasker_36
- Track 18 : Richie_36
- Track 19 : Satrap_36
- Track 20 : Sashimi_35
- Track 21 : NewKitty_35
- Track 22 : DarwinJr_39
- Track 23 : Anekin_34
- Track 24 : BasketStar_36
- Track 25 : BlueShadow_36
- Track 26 : ThayneTheZag_36
- Track 27 : Shukran_39
- Track 28 : Hestia_36
- Track 29 : Lawnathon_36
- Track 30 : Globfish_36
- Track 31 : SpicyFrank_36
- Track 32 : Culver_60
- Track 33 : Pipp_33
- Track 34 : Utz_31
- Track 35 : Melba_35

- Track 36 : BlingBling_33
- Track 37 : EMSquaredA_36, Marteena_35, Pollux_37
- Track 38 : Floral_35
- Track 39 : Confidence_36
- Track 40 : EnalisNailo_34, Lilas_37
- Track 41 : Bradissa_35
- Track 42 : Pytheas_34, Jablanski_34
- Track 43 : LonelyBoi_37
- Track 44 : Bunnybear_32
- Track 45 : Beenie_30, Invectra_37, MichaelScott_36
- Track 46 : Samman98_36, Annalisa_34, Dolores_37, Thimann_34, WinkNick_38
- Track 47 : Adora_34
- Track 48 : Shlim410_35, Howe_36, Hortense_36, Twinkle_35
- Track 49 : Rizz_37, DobbysSock_30, Clark_36, Dorito_32
- Track 50 : Tuti_32
- Track 51 : PhriskyACE_35
- Track 52 : Oregano_37
- Track 53 : Mcklovin_34
- Track 54 : Dmitri_36
- Track 55 : Kiko_37
- Track 56 : Bowser_37
- Track 57 : Bunker_34
- Track 58 : Moonflower_36
- Track 59 : PatriciaStar_34
- Track 60 : BBQValindra_35
- Track 61 : Sixsevenium_40, Bakery_42
- Track 62 : YungMoney_41
- Track 63 : SharkTale_39
- Track 64 : Mutzi_37
- Track 65 : Squiddly_37
- Track 66 : Spooky_35
- Track 67 : Sixama_89
- Track 68 : ArchiDore_37
- Track 69 : Malibo_38
- Track 70 : Sprinklemunch_42
- Track 71 : FosterFrank_36
- Track 72 : ChuckDuck_35
- Track 73 : KayMoney_35, Constance_34, Judy_35
- Track 74 : LilyBell_34
- Track 75 : Henrique_35
- Track 76 : GlobiWarming_35
- Track 77 : HotPotato_34
- Track 78 : Karkharias_34
- Track 79 : NikkiHotWheels_35
- Track 80 : PeggyLeg03_34
- Track 81 : Pucara_31
- Track 82 : Bridgette_34
- Track 83 : Gibbzilla_34
- Track 84 : Schism_38
- Track 85 : Julie_35
- Track 86 : Nandita_36
- Track 87 : Ichiang_34
- Track 88 : Toodles_36

- Track 89 : IsHungry_32
- Track 90 : Guinevere_36
- Track 91 : Lenoxika_36
- Track 92 : MillySue_36
- Track 93 : QuinnAvery_38
- Track 94 : Saintcarr_36
- Track 95 : GoodLuckBabe_37
- Track 96 : Yonex_36, Ryan_36
- Track 97 : Kihatsu_37
- Track 98 : BigSherm_36
- Track 99 : ToastyOats_38
- Track 100 : Zaheer_36
- Track 101 : Gusanita_34
- Track 102 : Donatella_35
- Track 103 : Halloweekend_34
- Track 104 : Popper_34
- Track 105 : Dirtdigger_36
- Track 106 : Cole_34
- Track 107 : AllBusiness_33
- Track 108 : BellaJr_33
- Track 109 : BlackSpider_31
- Track 110 : Bauer_32
- Track 111 : Cassini_27
- Track 112 : Zucker_29
- Track 113 : Maja_28
- Track 114 : Ball_25

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

The start number called the most often in the published annotations is 24, it was called in 96 of the 115 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Aikyam_33, AllBusiness_33, Anekin_34, Annalisa_34, ArchiDore_37, Auxilium_34, Bakery_42, Ball_25, Bauer_32, Beenie_30, BellaJr_33, BenchScraper_36, BillyTP_37, BlackSpider_31, BlingBling_33, BlueShadow_36, Bowser_37, Bradissa_35, Bridgette_34, Bunker_34, ChuckDuck_35, Cole_34, Confidence_36, Constance_34, CookieBear_36, CosmicBrownie_36, Crescenzo_35, Culver_60, DarwinJr_39, Dirtdigger_36, Dmitri_36, Dolores_37, Donatella_35, EMSquaredA_36, FosterFrank_36, Gibbzilla_34, GlobiWarming_35, GoodLuckBabe_37, Gorpy_37, Guinevere_36, GumGum_37, Gusanita_34, Halloweekend_34, Henrique_35, Hestia_36, Hillester_36, Hortense_36, HotPotato_34, Howe_36, Ichiang_34, Invectra_37, IsHungry_32, Isolde_36, JellyBread_32, Judy_35, Julie_35, Kabloowy_36, Karkharias_34, KayMoney_35, Kihatsu_37, Kiko_37, Lasker_36, Lawnathon_36, Lenoxika_36, LilyBell_34, LonelyBoi_37, MUWow_35, Maja_28, Malibo_38, Mapleville_35, Marteena_35, MaterMagnus_36, Mcklovin_34, MichaelScott_36, MidnightRain_38, MillySue_36, Mutzi_37, Nandita_36, NewKitty_35, NikkiHotWheels_35, Oregano_37, PatriciaStar_34, PeggyLeg03_34, PhriskyACE_35, Pollux_37, Popper_34, Pucara_31, RadFad_36, Raphaella_36, Richie_36, Ryan_36, Saintcarr_36, Sakai_36, Samman98_36, Sashimi_35,

Satrap_36, Schism_38, Seahorse_38, SharkTale_39, Shlim410_35, Shukran_39, Sixsevenium_40, SonDevVon_36, SpicyFrank_36, Sporco_37, ThayneTheZag_36, Thimann_34, Tiff81_32, ToastyOats_38, Toodles_36, Tuti_32, Twinkle_35, Utz_31, Vopal_39, WinkNick_38, Yonex_36, YoungHarleezy_36, YungMoney_41, Zaheer_36, Zucker_29,

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

- Adora_34, BBQValindra_35, BasketStar_36, BigSherm_36, Bunnybear_32, Cassini_27, Clark_36, DobbysSock_30, Dorito_32, EnalisNailo_34, Floral_35, Globfish_36, Lilas_37, Melba_35, Moonflower_36, Pipp_33, QuinnAvery_38, Rizz_37, Sprinklemunch_42,

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

- GramZayde_37, Jablanski_34, MurphyJoseph_33, Pytheas_34, Sixama_89, Spooky_35, Squiddly_37,

Summary by start number:

Start 20:

- Found in 27 of 146 (18.5%) of genes in pham
- Manual Annotations of this start: 2 of 115
- Called 14.8% of time when present
- Phage (with cluster) where this start called: BasketStar_36 (AY), BigSherm_36 (FF), Cassini_27 (FN), QuinnAvery_38 (FF),

Start 22:

- Found in 2 of 146 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 115
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Globfish_36 (AY),

Start 23:

- Found in 55 of 146 (37.7%) of genes in pham
- Manual Annotations of this start: 15 of 115
- Called 30.9% of time when present
- Phage (with cluster) where this start called: Adora_34 (CZ4), BBQValindra_35 (DB), Bunnybear_32 (CZ), Clark_36 (CZ4), DobbysSock_30 (CZ4), Dorito_32 (CZ4), EnalisNailo_34 (CY1), Floral_35 (CY1), Jablanski_34 (CY3), Lilas_37 (CY1), Melba_35 (CV), Pipp_33 (CV), Pytheas_34 (CY3), Rizz_37 (CZ4), Spooky_35 (DN2), Sprinklemunch_42 (DW), Squiddly_37 (DN2),

Start 24:

- Found in 139 of 146 (95.2%) of genes in pham
- Manual Annotations of this start: 96 of 115
- Called 86.3% of time when present
- Phage (with cluster) where this start called: Aikyam_33 (AY), AllBusiness_33 (FF), Anekin_34 (AY), Annalisa_34 (CZ4), ArchiDore_37 (DW), Auxilium_34 (AY), Bakery_42 (DC1), Ball_25 (singleton), Bauer_32 (FN), Beenie_30 (CZ4), BellaJr_33 (FN), BenchScraper_36 (AY), BillyTP_37 (AY), BlackSpider_31 (FN), BlingBling_33 (CV), BlueShadow_36 (AY), Bowser_37 (DB), Bradissa_35 (CY1), Bridgette_34 (FA), Bunker_34 (DB), ChuckDuck_35 (FA), Cole_34 (FF), Confidence_36 (CY1), Constance_34 (FA), CookieBear_36 (AY), CosmicBrownie_36 (AY), Crescenzo_35 (AY), Culver_60 (CQ1), DarwinJr_39 (AY), Dirtdigger_36 (FF), Dmitri_36 (DB),

Dolores_37 (CZ4), Donatella_35 (FF), EMSquaredA_36 (CY1), FosterFrank_36 (FA), Gibbzilla_34 (FB), GlobiWarming_35 (FA), GoodLuckBabe_37 (FF), Gorpy_37 (AY), Guinevere_36 (FF), GumGum_37 (AY), Gusanita_34 (FF), Halloweekend_34 (FF), Henrique_35 (FA), Hestia_36 (AY), Hillester_36 (AY), Hortense_36 (CZ4), HotPotato_34 (FA), Howe_36 (CZ4), Ichiang_34 (FF), Invectra_37 (CZ4), IsHungry_32 (FF), Isolde_36 (AY), JellyBread_32 (AY), Judy_35 (FA), Julie_35 (FF), Kabloowy_36 (AY), Karkharias_34 (FA), KayMoney_35 (FA), Kihatsu_37 (FF), Kiko_37 (DB), Lasker_36 (AY), Lawnathon_36 (AY), Lenoxika_36 (FF), LilyBell_34 (FA), LonelyBoi_37 (CY7), MUWow_35 (AY), Maja_28 (FO), Malibo_38 (DW), Mapleville_35 (AY), Marteena_35 (CY1), MaterMagnus_36 (AY), Mcklovin_34 (CZ4), MichaelScott_36 (CZ4), MidnightRain_38 (AY), MillySue_36 (FF), Mutzi_37 (DC1), Nandita_36 (FF), NewKitty_35 (AY), NikkiHotWheels_35 (FA), Oregano_37 (CZ4), PatriciaStar_34 (DB), PeggyLeg03_34 (FA), PhriskyACE_35 (CZ4), Pollux_37 (CY1), Popper_34 (FF), Pucara_31 (FA), RadFad_36 (AY), Raphaella_36 (AY), Richie_36 (AY), Ryan_36 (FF), Saintcarr_36 (FF), Sakai_36 (AY), Samman98_36 (CZ4), Sashimi_35 (AY), Satrap_36 (AY), Schism_38 (FF), Seahorse_38 (AY), SharkTale_39 (DC1), Shlim410_35 (CZ4), Shukran_39 (AY), Sixsevenium_40 (DC1), SonDevVon_36 (AY), SpicyFrank_36 (AY), Sporco_37 (AY), ThayneTheZag_36 (AY), Thimann_34 (CZ4), Tiff81_32 (AY), ToastyOats_38 (FF), Toodles_36 (FF), Tuti_32 (CZ4), Twinkle_35 (CZ4), Utz_31 (CV), Vopal_39 (AY), WinkNick_38 (CZ4), Yonex_36 (FF), YoungHarleezy_36 (AY), YungMoney_41 (DC1), Zaheer_36 (FF), Zucker_29 (FN),

Start 26:

- Found in 16 of 146 (11.0%) of genes in pham
- Manual Annotations of this start: 1 of 115
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Moonflower_36 (DB), Sixama_89 (DS),

Start 38:

- Found in 68 of 146 (46.6%) of genes in pham
- No Manual Annotations of this start.
- Called 1.5% of time when present
- Phage (with cluster) where this start called: MurphyJoseph_33 (AY),

Start 44:

- Found in 1 of 146 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GramZayde_37 (AS2),

Summary by clusters:

There are 20 clusters represented in this pham: CY3, AS2, CY1, CY7, CZ, DB, singleton, CZ4, DS, FA, FB, FF, DN2, AY, DW, CQ1, DC1, CV, FN, FO,

Info for manual annotations of cluster AY:

- Start number 22 was manually annotated 1 time for cluster AY.
- Start number 24 was manually annotated 29 times for cluster AY.

Info for manual annotations of cluster CQ1:

- Start number 24 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CV:

- Start number 23 was manually annotated 2 times for cluster CV.
- Start number 24 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CY1:

- Start number 23 was manually annotated 3 times for cluster CY1.
- Start number 24 was manually annotated 5 times for cluster CY1.

Info for manual annotations of cluster CY3:

- Start number 23 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY7:

- Start number 24 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:

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

Info for manual annotations of cluster CZ4:

- Start number 23 was manually annotated 4 times for cluster CZ4.
- Start number 24 was manually annotated 16 times for cluster CZ4.

Info for manual annotations of cluster DB:

- Start number 23 was manually annotated 1 time for cluster DB.
- Start number 24 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 24 was manually annotated 3 times for cluster DC1.

Info for manual annotations of cluster DN2:

- Start number 23 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DS:

- Start number 26 was manually annotated 1 time for cluster DS.

Info for manual annotations of cluster DW:

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

Info for manual annotations of cluster FA:

- Start number 24 was manually annotated 10 times for cluster FA.

Info for manual annotations of cluster FF:

- Start number 20 was manually annotated 2 times for cluster FF.
- Start number 24 was manually annotated 19 times for cluster FF.

Info for manual annotations of cluster FN:

- Start number 24 was manually annotated 3 times for cluster FN.

Info for manual annotations of cluster FO:

- Start number 24 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: Adora_34 Start: 29404, Stop: 30327, Start Num: 23

Candidate Starts for Adora_34:

(Start: 23 @29404 has 15 MA's), (Start: 24 @29410 has 96 MA's), (48, 29599), (49, 29605), (57, 29707), (62, 29731), (68, 29791), (72, 29848), (74, 29854), (75, 29860), (90, 29974), (91, 29980), (94, 29992), (107, 30067), (109, 30091), (110, 30094), (115, 30130), (116, 30136), (120, 30169), (124, 30205), (128, 30250),

Gene: Aikyam_33 Start: 22410, Stop: 23327, Start Num: 24

Candidate Starts for Aikyam_33:

(12, 22281), (15, 22287), (Start: 24 @22410 has 96 MA's), (38, 22566), (42, 22581), (46, 22593), (63, 22740), (64, 22749), (67, 22788), (69, 22833), (74, 22857), (75, 22863), (80, 22896), (84, 22938), (87, 22947), (92, 22989), (107, 23073), (122, 23193), (124, 23208),

Gene: AllBusiness_33 Start: 27251, Stop: 28171, Start Num: 24

Candidate Starts for AllBusiness_33:

(Start: 20 @27209 has 2 MA's), (Start: 24 @27251 has 96 MA's), (25, 27275), (32, 27365), (38, 27407), (43, 27425), (46, 27437), (51, 27494), (63, 27584), (67, 27632), (69, 27677), (74, 27701), (75, 27707), (80, 27740), (84, 27782), (92, 27833), (107, 27917), (119, 28013), (122, 28037), (125, 28058), (133, 28142),

Gene: Anekin_34 Start: 24275, Stop: 25195, Start Num: 24

Candidate Starts for Anekin_34:

(12, 24146), (17, 24173), (Start: 20 @24233 has 2 MA's), (Start: 24 @24275 has 96 MA's), (32, 24389), (36, 24404), (38, 24431), (43, 24449), (51, 24518), (63, 24608), (64, 24617), (67, 24656), (74, 24725), (75, 24731), (80, 24764), (84, 24806), (87, 24815),

Gene: Annalisa_34 Start: 27182, Stop: 28099, Start Num: 24

Candidate Starts for Annalisa_34:

(Start: 23 @27176 has 15 MA's), (Start: 24 @27182 has 96 MA's), (48, 27371), (49, 27377), (57, 27479), (62, 27503), (68, 27563), (72, 27620), (74, 27626), (75, 27632), (90, 27746), (91, 27752), (94, 27764), (107, 27839), (109, 27863), (110, 27866), (115, 27902), (116, 27908), (117, 27920), (128, 28022),

Gene: ArchiDore_37 Start: 30835, Stop: 31752, Start Num: 24

Candidate Starts for ArchiDore_37:

(Start: 23 @30829 has 15 MA's), (Start: 24 @30835 has 96 MA's), (35, 30955), (48, 31024), (49, 31030), (54, 31102), (60, 31153), (68, 31216), (71, 31270), (74, 31279), (78, 31300), (79, 31309), (82, 31339), (104, 31471), (107, 31492), (109, 31516), (110, 31519), (112, 31540), (115, 31555), (116, 31561), (124, 31630), (135, 31744),

Gene: Auxilium_34 Start: 22112, Stop: 23029, Start Num: 24

Candidate Starts for Auxilium_34:

(12, 21983), (15, 21989), (Start: 24 @22112 has 96 MA's), (38, 22268), (42, 22283), (46, 22295), (63, 22442), (64, 22451), (67, 22490), (69, 22535), (74, 22559), (75, 22565), (80, 22598), (84, 22640), (87, 22649), (92, 22691), (107, 22775), (122, 22895), (124, 22910),

Gene: BBQValindra_35 Start: 29573, Stop: 30496, Start Num: 23

Candidate Starts for BBQValindra_35:

(Start: 23 @29573 has 15 MA's), (Start: 24 @29579 has 96 MA's), (48, 29768), (49, 29774), (62, 29900), (66, 29945), (68, 29960), (74, 30023), (78, 30044), (91, 30149), (94, 30161), (104, 30215), (107, 30236), (110, 30263), (129, 30440), (133, 30467),

Gene: Bakery_42 Start: 33465, Stop: 34382, Start Num: 24

Candidate Starts for Bakery_42:

(Start: 23 @33459 has 15 MA's), (Start: 24 @33465 has 96 MA's), (34, 33582), (35, 33585), (47, 33648), (48, 33654), (49, 33660), (68, 33846), (71, 33900), (72, 33903), (74, 33909), (78, 33930), (90, 34029), (91, 34035), (94, 34047), (107, 34122), (110, 34149), (119, 34221), (124, 34260), (135, 34374),

Gene: Ball_25 Start: 21363, Stop: 22283, Start Num: 24

Candidate Starts for Ball_25:

(Start: 24 @21363 has 96 MA's), (25, 21387), (32, 21477), (38, 21519), (43, 21537), (46, 21549), (51, 21606), (53, 21627), (63, 21696), (64, 21705), (67, 21744), (74, 21813), (75, 21819), (80, 21852), (83, 21876), (84, 21894), (92, 21945), (94, 21951), (96, 21963), (122, 22149), (125, 22170), (132, 22251), (133, 22254),

Gene: BasketStar_36 Start: 24585, Stop: 25544, Start Num: 20

Candidate Starts for BasketStar_36:

(Start: 20 @24585 has 2 MA's), (Start: 22 @24609 has 1 MA's), (Start: 24 @24627 has 96 MA's), (42, 24798), (46, 24810), (61, 24951), (63, 24957), (67, 25005), (69, 25050), (74, 25074), (75, 25080), (77, 25089), (80, 25113), (84, 25155), (87, 25164), (88, 25167), (94, 25212), (107, 25290), (122, 25410), (124, 25425),

Gene: Bauer_32 Start: 24145, Stop: 25065, Start Num: 24

Candidate Starts for Bauer_32:

(Start: 24 @24145 has 96 MA's), (32, 24259), (38, 24301), (43, 24319), (46, 24331), (51, 24388), (63, 24478), (67, 24526), (74, 24595), (75, 24601), (80, 24634), (83, 24658), (122, 24931), (124, 24946), (125, 24952),

Gene: Beenie_30 Start: 27395, Stop: 28312, Start Num: 24

Candidate Starts for Beenie_30:

(Start: 23 @27389 has 15 MA's), (Start: 24 @27395 has 96 MA's), (48, 27584), (49, 27590), (57, 27692), (62, 27716), (68, 27776), (72, 27833), (74, 27839), (75, 27845), (90, 27959), (91, 27965), (94, 27977), (107, 28052), (109, 28076), (110, 28079), (115, 28115), (116, 28121), (120, 28154), (128, 28235),

Gene: BellaJr_33 Start: 25121, Stop: 26041, Start Num: 24

Candidate Starts for BellaJr_33:

(3, 24830), (5, 24842), (8, 24908), (14, 24998), (Start: 24 @25121 has 96 MA's), (32, 25235), (41, 25286), (43, 25295), (46, 25307), (51, 25364), (63, 25454), (67, 25502), (74, 25571), (75, 25577), (80, 25610), (83, 25634), (122, 25907), (124, 25922), (125, 25928),

Gene: BenchScraper_36 Start: 24587, Stop: 25504, Start Num: 24

Candidate Starts for BenchScraper_36:

(12, 24458), (15, 24464), (Start: 24 @24587 has 96 MA's), (38, 24743), (42, 24758), (46, 24770), (63, 24917), (67, 24965), (69, 25010), (74, 25034), (75, 25040), (80, 25073), (87, 25124), (107, 25250), (110, 25277), (122, 25370), (133, 25475),

Gene: BigSherm_36 Start: 26331, Stop: 27293, Start Num: 20

Candidate Starts for BigSherm_36:

(Start: 20 @26331 has 2 MA's), (Start: 24 @26373 has 96 MA's), (38, 26529), (43, 26547), (46, 26559), (50, 26583), (63, 26706), (64, 26715), (67, 26754), (68, 26760), (71, 26814), (74, 26823), (75, 26829), (80, 26862), (83, 26886), (84, 26904), (88, 26916), (92, 26955), (119, 27135), (122, 27159), (124, 27174), (125, 27180), (132, 27261), (133, 27264),

Gene: BillyTP_37 Start: 25308, Stop: 26225, Start Num: 24

Candidate Starts for BillyTP_37:

(12, 25179), (15, 25185), (Start: 24 @25308 has 96 MA's), (38, 25464), (42, 25479), (46, 25491), (63, 25638), (64, 25647), (67, 25686), (69, 25731), (74, 25755), (75, 25761), (80, 25794), (84, 25836), (87, 25845), (92, 25887), (107, 25971), (122, 26091), (124, 26106),

Gene: BlackSpider_31 Start: 24033, Stop: 24953, Start Num: 24

Candidate Starts for BlackSpider_31:

(3, 23742), (5, 23754), (8, 23820), (14, 23910), (Start: 24 @24033 has 96 MA's), (32, 24147), (41, 24198), (43, 24207), (46, 24219), (51, 24276), (63, 24366), (67, 24414), (74, 24483), (75, 24489), (77, 24498), (80, 24522), (83, 24546), (108, 24720), (122, 24819), (123, 24825), (124, 24834), (125, 24840),

Gene: BlingBling_33 Start: 29081, Stop: 30001, Start Num: 24

Candidate Starts for BlingBling_33:

(Start: 23 @29075 has 15 MA's), (Start: 24 @29081 has 96 MA's), (34, 29198), (35, 29201), (47, 29264), (48, 29270), (49, 29276), (68, 29462), (71, 29516), (72, 29519), (74, 29525), (78, 29546), (90, 29645), (91, 29651), (94, 29663), (107, 29738), (110, 29765), (115, 29801), (124, 29876),

Gene: BlueShadow_36 Start: 24572, Stop: 25489, Start Num: 24

Candidate Starts for BlueShadow_36:

(12, 24443), (15, 24449), (Start: 24 @24572 has 96 MA's), (38, 24728), (42, 24743), (46, 24755), (63, 24902), (67, 24950), (69, 24995), (71, 25010), (74, 25019), (75, 25025), (80, 25058), (84, 25100), (87, 25109), (92, 25151), (107, 25235), (122, 25355), (124, 25370), (133, 25460),

Gene: Bowser_37 Start: 29401, Stop: 30318, Start Num: 24

Candidate Starts for Bowser_37:

(Start: 23 @29395 has 15 MA's), (Start: 24 @29401 has 96 MA's), (Start: 26 @29425 has 1 MA's), (35, 29521), (48, 29590), (49, 29596), (57, 29698), (60, 29719), (68, 29782), (71, 29836), (74, 29845), (78, 29866), (79, 29875), (82, 29905), (104, 30037), (107, 30058), (109, 30082), (110, 30085), (115, 30121), (118, 30142),

Gene: Bradissa_35 Start: 30283, Stop: 31200, Start Num: 24

Candidate Starts for Bradissa_35:

(Start: 23 @30277 has 15 MA's), (Start: 24 @30283 has 96 MA's), (Start: 26 @30307 has 1 MA's), (35, 30403), (49, 30478), (54, 30550), (60, 30601), (68, 30664), (71, 30718), (74, 30727), (78, 30748), (79, 30757), (82, 30787), (91, 30853), (104, 30919), (107, 30940), (110, 30967), (115, 31003),

Gene: Bridgette_34 Start: 24627, Stop: 25547, Start Num: 24

Candidate Starts for Bridgette_34:

(12, 24498), (15, 24504), (Start: 24 @24627 has 96 MA's), (38, 24783), (43, 24801), (46, 24813), (63, 24960), (64, 24969), (67, 25008), (74, 25077), (75, 25083), (80, 25116), (84, 25158), (88, 25170), (119, 25389), (122, 25413), (124, 25428), (125, 25434), (132, 25515), (133, 25518),

Gene: Bunker_34 Start: 28706, Stop: 29623, Start Num: 24

Candidate Starts for Bunker_34:

(Start: 23 @28700 has 15 MA's), (Start: 24 @28706 has 96 MA's), (48, 28895), (49, 28901), (57, 29003), (68, 29087), (72, 29144), (74, 29150), (75, 29156), (78, 29171), (91, 29276), (94, 29288), (107, 29363), (110, 29390),

Gene: Bunnybear_32 Start: 28492, Stop: 29415, Start Num: 23

Candidate Starts for Bunnybear_32:

(Start: 23 @28492 has 15 MA's), (Start: 24 @28498 has 96 MA's), (Start: 26 @28522 has 1 MA's), (35, 28618), (48, 28687), (49, 28693), (57, 28795), (60, 28816), (68, 28879), (71, 28933), (74, 28942), (78, 28963), (79, 28972), (82, 29002), (91, 29068), (96, 29092), (104, 29134), (107, 29155), (110, 29182), (115, 29218), (116, 29224),

Gene: Cassini_27 Start: 21975, Stop: 22931, Start Num: 20

Candidate Starts for Cassini_27:

(Start: 20 @21975 has 2 MA's), (Start: 24 @22014 has 96 MA's), (33, 22134), (38, 22170), (42, 22185), (46, 22197), (63, 22344), (67, 22392), (69, 22437), (71, 22452), (74, 22461), (75, 22467), (80, 22500), (84, 22542), (87, 22551), (88, 22554), (94, 22599), (107, 22677), (122, 22797), (124, 22812), (133, 22902),

Gene: ChuckDuck_35 Start: 24394, Stop: 25314, Start Num: 24

Candidate Starts for ChuckDuck_35:

(Start: 24 @24394 has 96 MA's), (38, 24550), (43, 24568), (46, 24580), (63, 24727), (64, 24736), (67, 24775), (74, 24844), (75, 24850), (80, 24883), (84, 24925), (92, 24976), (95, 24985), (119, 25156), (122, 25180), (124, 25195), (125, 25201), (132, 25282), (133, 25285),

Gene: Clark_36 Start: 27206, Stop: 28129, Start Num: 23

Candidate Starts for Clark_36:

(Start: 23 @27206 has 15 MA's), (Start: 24 @27212 has 96 MA's), (48, 27401), (49, 27407), (57, 27509), (62, 27533), (68, 27593), (72, 27650), (74, 27656), (75, 27662), (90, 27776), (91, 27782), (94, 27794), (107, 27869), (109, 27893), (110, 27896), (115, 27932), (116, 27938), (120, 27971), (128, 28052),

Gene: Cole_34 Start: 26120, Stop: 27040, Start Num: 24

Candidate Starts for Cole_34:

(Start: 20 @26078 has 2 MA's), (Start: 24 @26120 has 96 MA's), (38, 26276), (40, 26282), (43, 26294), (46, 26306), (63, 26453), (64, 26462), (67, 26501), (70, 26558), (74, 26570), (75, 26576), (80, 26609), (83, 26633), (84, 26651), (88, 26663), (92, 26702), (116, 26852), (119, 26882), (122, 26906), (125, 26927), (132, 27008), (133, 27011),

Gene: Confidence_36 Start: 28133, Stop: 29050, Start Num: 24

Candidate Starts for Confidence_36:

(Start: 23 @28127 has 15 MA's), (Start: 24 @28133 has 96 MA's), (Start: 26 @28157 has 1 MA's), (35, 28253), (48, 28322), (49, 28328), (60, 28451), (68, 28514), (71, 28568), (74, 28577), (78, 28598), (79, 28607), (82, 28637), (107, 28790), (110, 28817), (115, 28853),

Gene: Constance_34 Start: 24866, Stop: 25786, Start Num: 24

Candidate Starts for Constance_34:

(Start: 24 @24866 has 96 MA's), (38, 25022), (43, 25040), (46, 25052), (63, 25199), (64, 25208), (67, 25247), (74, 25316), (75, 25322), (80, 25355), (84, 25397), (92, 25448), (119, 25628), (122, 25652), (124, 25667), (125, 25673), (132, 25754), (133, 25757),

Gene: CookieBear_36 Start: 24572, Stop: 25489, Start Num: 24

Candidate Starts for CookieBear_36:

(12, 24443), (15, 24449), (Start: 24 @24572 has 96 MA's), (38, 24728), (42, 24743), (46, 24755), (63, 24902), (64, 24911), (67, 24950), (69, 24995), (74, 25019), (75, 25025), (80, 25058), (84, 25100), (87, 25109), (92, 25151), (107, 25235), (122, 25355), (124, 25370),

Gene: CosmicBrownie_36 Start: 24392, Stop: 25312, Start Num: 24

Candidate Starts for CosmicBrownie_36:

(12, 24263), (15, 24269), (Start: 24 @24392 has 96 MA's), (32, 24506), (41, 24557), (43, 24566), (46, 24578), (51, 24635), (63, 24725), (64, 24734), (67, 24773), (74, 24842), (75, 24848), (77, 24857), (80, 24881), (83, 24905), (108, 25079), (122, 25178), (124, 25193), (125, 25199),

Gene: Crescenzo_35 Start: 24998, Stop: 25918, Start Num: 24

Candidate Starts for Crescenzo_35:

(Start: 20 @24956 has 2 MA's), (Start: 24 @24998 has 96 MA's), (32, 25112), (38, 25154), (43, 25172), (46, 25184), (51, 25241), (63, 25331), (64, 25340), (67, 25379), (74, 25448), (75, 25454), (77, 25463), (80, 25487),

Gene: Culver_60 Start: 37716, Stop: 38639, Start Num: 24

Candidate Starts for Culver_60:

(Start: 23 @37710 has 15 MA's), (Start: 24 @37716 has 96 MA's), (Start: 26 @37746 has 1 MA's), (33, 37836), (46, 37902), (48, 37911), (49, 37917), (53, 37980), (57, 38019), (66, 38088), (69, 38142), (72, 38160), (73, 38163), (74, 38166), (78, 38187), (88, 38259), (89, 38283), (90, 38286), (91, 38292), (94, 38304), (100, 38352), (103, 38355), (107, 38379), (109, 38403), (115, 38442), (124, 38517), (127, 38556),

Gene: DarwinJr_39 Start: 25983, Stop: 26903, Start Num: 24

Candidate Starts for DarwinJr_39:

(12, 25854), (17, 25881), (Start: 20 @25941 has 2 MA's), (Start: 24 @25983 has 96 MA's), (33, 26103), (43, 26157), (63, 26316), (67, 26364), (69, 26409), (74, 26433), (75, 26439), (80, 26472), (88, 26526), (96, 26583), (107, 26649), (122, 26769), (124, 26784), (133, 26874),

Gene: Dirdigger_36 Start: 26196, Stop: 27113, Start Num: 24

Candidate Starts for Dirdigger_36:

(Start: 24 @26196 has 96 MA's), (38, 26352), (46, 26379), (51, 26436), (63, 26526), (64, 26535), (67, 26574), (69, 26619), (74, 26643), (75, 26649), (78, 26664), (80, 26682), (84, 26724), (92, 26775), (107, 26859), (110, 26886), (119, 26955), (131, 27075),

Gene: Dmitri_36 Start: 30429, Stop: 31346, Start Num: 24

Candidate Starts for Dmitri_36:

(Start: 23 @30423 has 15 MA's), (Start: 24 @30429 has 96 MA's), (Start: 26 @30453 has 1 MA's), (35, 30549), (48, 30618), (49, 30624), (60, 30747), (68, 30810), (71, 30864), (74, 30873), (78, 30894), (79, 30903), (82, 30933), (107, 31086), (110, 31113), (115, 31149), (116, 31155), (132, 31314),

Gene: DobbysSock_30 Start: 26128, Stop: 27051, Start Num: 23

Candidate Starts for DobbysSock_30:

(Start: 23 @26128 has 15 MA's), (Start: 24 @26134 has 96 MA's), (48, 26323), (49, 26329), (57, 26431), (62, 26455), (68, 26515), (72, 26572), (74, 26578), (75, 26584), (90, 26698), (91, 26704), (94, 26716), (107, 26791), (109, 26815), (110, 26818), (115, 26854), (116, 26860), (120, 26893), (128, 26974),

Gene: Dolores_37 Start: 28084, Stop: 29001, Start Num: 24

Candidate Starts for Dolores_37:

(Start: 23 @28078 has 15 MA's), (Start: 24 @28084 has 96 MA's), (48, 28273), (49, 28279), (57, 28381), (62, 28405), (68, 28465), (72, 28522), (74, 28528), (75, 28534), (90, 28648), (91, 28654), (94, 28666), (107, 28741), (109, 28765), (110, 28768), (115, 28804), (116, 28810), (117, 28822), (128, 28924),

Gene: Donatella_35 Start: 26584, Stop: 27504, Start Num: 24

Candidate Starts for Donatella_35:

(Start: 20 @26542 has 2 MA's), (Start: 24 @26584 has 96 MA's), (38, 26740), (43, 26758), (46, 26770), (63, 26917), (64, 26926), (67, 26965), (68, 26971), (71, 27025), (74, 27034), (75, 27040), (80, 27073), (83, 27097), (84, 27115), (88, 27127), (92, 27166), (116, 27316), (118, 27331), (119, 27346), (122, 27370), (124, 27385), (125, 27391), (132, 27472), (133, 27475),

Gene: Dorito_32 Start: 25772, Stop: 26695, Start Num: 23

Candidate Starts for Dorito_32:

(Start: 23 @25772 has 15 MA's), (Start: 24 @25778 has 96 MA's), (48, 25967), (49, 25973), (57, 26075), (62, 26099), (68, 26159), (72, 26216), (74, 26222), (75, 26228), (90, 26342), (91, 26348), (94, 26360), (107, 26435), (109, 26459), (110, 26462), (115, 26498), (116, 26504), (120, 26537), (128, 26618),

Gene: EMSquaredA_36 Start: 28837, Stop: 29754, Start Num: 24

Candidate Starts for EMSquaredA_36:

(Start: 23 @28831 has 15 MA's), (Start: 24 @28837 has 96 MA's), (Start: 26 @28861 has 1 MA's), (35, 28957), (48, 29026), (49, 29032), (60, 29155), (68, 29218), (71, 29272), (74, 29281), (78, 29302), (79, 29311), (82, 29341), (86, 29365), (104, 29473), (107, 29494), (110, 29521),

Gene: EnalisNailo_34 Start: 29811, Stop: 30734, Start Num: 23

Candidate Starts for EnalisNailo_34:

(Start: 23 @29811 has 15 MA's), (Start: 24 @29817 has 96 MA's), (Start: 26 @29841 has 1 MA's), (35, 29937), (49, 30012), (54, 30084), (60, 30135), (68, 30198), (71, 30252), (74, 30261), (78, 30282), (79, 30291), (82, 30321), (91, 30387), (104, 30453), (107, 30474), (110, 30501), (115, 30537),

Gene: Floral_35 Start: 30904, Stop: 31827, Start Num: 23

Candidate Starts for Floral_35:

(Start: 23 @30904 has 15 MA's), (Start: 24 @30910 has 96 MA's), (Start: 26 @30934 has 1 MA's), (35, 31030), (48, 31099), (49, 31105), (60, 31228), (68, 31291), (71, 31345), (74, 31354), (78, 31375), (79, 31384), (82, 31414), (86, 31438), (104, 31546), (107, 31567), (110, 31594),

Gene: FosterFrank_36 Start: 24468, Stop: 25388, Start Num: 24

Candidate Starts for FosterFrank_36:

(Start: 24 @24468 has 96 MA's), (38, 24624), (43, 24642), (46, 24654), (63, 24801), (64, 24810), (67, 24849), (74, 24918), (75, 24924), (80, 24957), (84, 24999), (92, 25050), (121, 25242), (124, 25269), (125, 25275), (132, 25356), (133, 25359),

Gene: Gibbzilla_34 Start: 22108, Stop: 23028, Start Num: 24

Candidate Starts for Gibbzilla_34:

(Start: 24 @22108 has 96 MA's), (32, 22222), (43, 22282), (52, 22363), (63, 22441), (67, 22489), (69, 22534), (74, 22558), (75, 22564), (77, 22573), (78, 22579), (80, 22597), (88, 22651), (92, 22690), (94, 22696), (96, 22708), (107, 22774), (110, 22801), (119, 22870), (122, 22894), (124, 22909),

Gene: Globfish_36 Start: 24791, Stop: 25729, Start Num: 22

Candidate Starts for Globfish_36:

(Start: 20 @24767 has 2 MA's), (Start: 22 @24791 has 1 MA's), (Start: 24 @24809 has 96 MA's), (43, 24983), (46, 24995), (63, 25142), (64, 25151), (67, 25190), (69, 25235), (74, 25259), (75, 25265), (80, 25298), (84, 25340), (87, 25349), (88, 25352), (94, 25397), (107, 25475), (122, 25595), (124, 25610), (133, 25700),

Gene: GlobiWarming_35 Start: 24310, Stop: 25230, Start Num: 24

Candidate Starts for GlobiWarming_35:

(12, 24181), (15, 24187), (Start: 24 @24310 has 96 MA's), (38, 24466), (43, 24484), (46, 24496), (63, 24643), (64, 24652), (67, 24691), (74, 24760), (75, 24766), (80, 24799), (84, 24841), (119, 25072),

(122, 25096), (124, 25111), (125, 25117), (132, 25198), (133, 25201),

Gene: GoodLuckBabe_37 Start: 26702, Stop: 27622, Start Num: 24

Candidate Starts for GoodLuckBabe_37:

(Start: 20 @26660 has 2 MA's), (Start: 24 @26702 has 96 MA's), (38, 26858), (43, 26876), (46, 26888), (51, 26945), (63, 27035), (64, 27044), (67, 27083), (71, 27143), (74, 27152), (75, 27158), (80, 27191), (84, 27233), (88, 27245), (92, 27284), (119, 27464), (122, 27488), (124, 27503), (125, 27509), (132, 27590), (133, 27593),

Gene: Gorpy_37 Start: 25804, Stop: 26721, Start Num: 24

Candidate Starts for Gorpy_37:

(12, 25675), (15, 25681), (Start: 24 @25804 has 96 MA's), (38, 25960), (42, 25975), (46, 25987), (63, 26134), (64, 26143), (67, 26182), (69, 26227), (74, 26251), (75, 26257), (80, 26290), (84, 26332), (87, 26341), (92, 26383), (107, 26467), (122, 26587), (124, 26602),

Gene: GramZayde_37 Start: 23752, Stop: 22994, Start Num: 44

Candidate Starts for GramZayde_37:

(1, 24271), (6, 24181), (44, 23752), (98, 23317), (116, 23182),

Gene: Guinevere_36 Start: 26292, Stop: 27212, Start Num: 24

Candidate Starts for Guinevere_36:

(Start: 20 @26250 has 2 MA's), (Start: 24 @26292 has 96 MA's), (38, 26448), (43, 26466), (46, 26478), (63, 26625), (67, 26673), (71, 26733), (74, 26742), (75, 26748), (80, 26781), (84, 26823), (88, 26835), (92, 26874), (119, 27054), (122, 27078), (124, 27093), (125, 27099), (132, 27180), (133, 27183),

Gene: GumGum_37 Start: 24736, Stop: 25656, Start Num: 24

Candidate Starts for GumGum_37:

(12, 24607), (15, 24613), (Start: 24 @24736 has 96 MA's), (32, 24850), (41, 24901), (43, 24910), (46, 24922), (51, 24979), (63, 25069), (64, 25078), (67, 25117), (74, 25186), (75, 25192), (77, 25201), (80, 25225), (83, 25249), (108, 25423), (122, 25522), (124, 25537), (125, 25543),

Gene: Gusanita_34 Start: 26041, Stop: 26961, Start Num: 24

Candidate Starts for Gusanita_34:

(12, 25912), (15, 25918), (Start: 24 @26041 has 96 MA's), (41, 26206), (43, 26215), (46, 26227), (48, 26236), (51, 26284), (63, 26374), (64, 26383), (67, 26422), (69, 26467), (74, 26491), (75, 26497), (80, 26530), (88, 26584), (92, 26623), (96, 26641), (107, 26707), (110, 26734), (131, 26923),

Gene: Halloweekend_34 Start: 25999, Stop: 26919, Start Num: 24

Candidate Starts for Halloweekend_34:

(Start: 20 @25957 has 2 MA's), (Start: 24 @25999 has 96 MA's), (38, 26155), (43, 26173), (46, 26185), (63, 26332), (64, 26341), (67, 26380), (74, 26449), (75, 26455), (80, 26488), (83, 26512), (84, 26530), (88, 26542), (119, 26761), (122, 26785), (124, 26800), (125, 26806), (132, 26887), (133, 26890),

Gene: Henrique_35 Start: 24359, Stop: 25279, Start Num: 24

Candidate Starts for Henrique_35:

(11, 24215), (Start: 24 @24359 has 96 MA's), (38, 24515), (43, 24533), (46, 24545), (63, 24692), (64, 24701), (67, 24740), (74, 24809), (75, 24815), (80, 24848), (84, 24890), (92, 24941), (107, 25025), (119, 25121), (122, 25145), (125, 25166), (132, 25247), (133, 25250),

Gene: Hestia_36 Start: 24611, Stop: 25531, Start Num: 24

Candidate Starts for Hestia_36:

(12, 24482), (15, 24488), (Start: 24 @24611 has 96 MA's), (43, 24785), (46, 24797), (63, 24944), (67, 24992), (74, 25061), (75, 25067), (92, 25193), (107, 25277), (119, 25373), (122, 25397), (124, 25412),

(125, 25418), (132, 25499),

Gene: Hillester_36 Start: 24572, Stop: 25492, Start Num: 24

Candidate Starts for Hillester_36:

(12, 24443), (17, 24470), (Start: 24 @24572 has 96 MA's), (32, 24686), (43, 24746), (46, 24758), (51, 24815), (63, 24905), (67, 24953), (74, 25022), (75, 25028), (80, 25061), (83, 25085), (122, 25358), (124, 25373), (125, 25379),

Gene: Hortense_36 Start: 30765, Stop: 31682, Start Num: 24

Candidate Starts for Hortense_36:

(Start: 23 @30759 has 15 MA's), (Start: 24 @30765 has 96 MA's), (46, 30945), (48, 30954), (49, 30960), (66, 31131), (68, 31146), (72, 31203), (74, 31209), (75, 31215), (78, 31230), (90, 31329), (91, 31335), (94, 31347), (107, 31422), (109, 31446), (110, 31449), (115, 31485), (116, 31491), (117, 31503), (128, 31605),

Gene: HotPotato_34 Start: 24923, Stop: 25843, Start Num: 24

Candidate Starts for HotPotato_34:

(Start: 24 @24923 has 96 MA's), (38, 25079), (43, 25097), (46, 25109), (63, 25256), (64, 25265), (67, 25304), (74, 25373), (75, 25379), (80, 25412), (84, 25454), (88, 25466), (119, 25685), (122, 25709), (124, 25724), (125, 25730), (132, 25811), (133, 25814),

Gene: Howe_36 Start: 30765, Stop: 31682, Start Num: 24

Candidate Starts for Howe_36:

(Start: 23 @30759 has 15 MA's), (Start: 24 @30765 has 96 MA's), (46, 30945), (48, 30954), (49, 30960), (66, 31131), (68, 31146), (72, 31203), (74, 31209), (75, 31215), (78, 31230), (90, 31329), (91, 31335), (94, 31347), (107, 31422), (109, 31446), (110, 31449), (115, 31485), (116, 31491), (117, 31503), (128, 31605),

Gene: Ichiang_34 Start: 26018, Stop: 26938, Start Num: 24

Candidate Starts for Ichiang_34:

(Start: 20 @25976 has 2 MA's), (Start: 24 @26018 has 96 MA's), (38, 26174), (43, 26192), (46, 26204), (50, 26228), (63, 26351), (64, 26360), (67, 26399), (74, 26468), (75, 26474), (80, 26507), (83, 26531), (84, 26549), (88, 26561), (91, 26594), (92, 26600), (94, 26606), (119, 26780), (122, 26804), (124, 26819), (125, 26825), (132, 26906), (133, 26909),

Gene: Invectra_37 Start: 28866, Stop: 29783, Start Num: 24

Candidate Starts for Invectra_37:

(Start: 23 @28860 has 15 MA's), (Start: 24 @28866 has 96 MA's), (48, 29055), (49, 29061), (57, 29163), (62, 29187), (68, 29247), (72, 29304), (74, 29310), (75, 29316), (90, 29430), (91, 29436), (94, 29448), (107, 29523), (109, 29547), (110, 29550), (115, 29586), (116, 29592), (120, 29625), (128, 29706),

Gene: IsHungry_32 Start: 25028, Stop: 25948, Start Num: 24

Candidate Starts for IsHungry_32:

(9, 24872), (12, 24896), (17, 24923), (18, 24962), (Start: 24 @25028 has 96 MA's), (25, 25052), (32, 25142), (38, 25184), (43, 25202), (46, 25214), (51, 25271), (63, 25361), (65, 25394), (67, 25409), (69, 25454), (74, 25478), (75, 25484), (80, 25517), (107, 25694), (110, 25721), (119, 25790), (122, 25814), (133, 25919),

Gene: Isolde_36 Start: 24341, Stop: 25258, Start Num: 24

Candidate Starts for Isolde_36:

(12, 24212), (15, 24218), (Start: 24 @24341 has 96 MA's), (42, 24512), (46, 24524), (63, 24671), (67, 24719), (69, 24764), (74, 24788), (75, 24794), (80, 24827), (84, 24869), (87, 24878), (94, 24926), (107,

25004), (110, 25031), (124, 25139), (133, 25229),

Gene: Jablanski_34 Start: 28854, Stop: 29789, Start Num: 23

Candidate Starts for Jablanski_34:

(19, 28800), (Start: 23 @28854 has 15 MA's), (35, 28986), (51, 29103), (57, 29163), (58, 29166), (62, 29187), (70, 29298), (74, 29310), (84, 29391), (93, 29445), (95, 29451), (99, 29469), (107, 29529), (109, 29553), (110, 29556), (115, 29592), (116, 29598), (126, 29676), (130, 29736),

Gene: JellyBread_32 Start: 23160, Stop: 24080, Start Num: 24

Candidate Starts for JellyBread_32:

(Start: 24 @23160 has 96 MA's), (29, 23217), (38, 23316), (43, 23334), (46, 23346), (63, 23493), (67, 23541), (69, 23586), (71, 23601), (74, 23610), (75, 23616), (78, 23631), (80, 23649), (84, 23691), (87, 23700), (92, 23742), (107, 23826), (110, 23853), (122, 23946), (124, 23961), (133, 24051),

Gene: Judy_35 Start: 24877, Stop: 25797, Start Num: 24

Candidate Starts for Judy_35:

(Start: 24 @24877 has 96 MA's), (38, 25033), (43, 25051), (46, 25063), (63, 25210), (64, 25219), (67, 25258), (74, 25327), (75, 25333), (80, 25366), (84, 25408), (92, 25459), (119, 25639), (122, 25663), (124, 25678), (125, 25684), (132, 25765), (133, 25768),

Gene: Julie_35 Start: 26941, Stop: 27861, Start Num: 24

Candidate Starts for Julie_35:

(12, 26809), (15, 26815), (17, 26836), (18, 26875), (Start: 24 @26941 has 96 MA's), (25, 26965), (32, 27055), (38, 27097), (43, 27115), (46, 27127), (63, 27274), (67, 27322), (69, 27367), (74, 27391), (75, 27397), (80, 27430), (84, 27472), (107, 27607), (110, 27634), (119, 27703), (122, 27727), (133, 27832),

Gene: Kabloowy_36 Start: 24752, Stop: 25669, Start Num: 24

Candidate Starts for Kabloowy_36:

(12, 24623), (15, 24629), (Start: 24 @24752 has 96 MA's), (38, 24908), (42, 24923), (46, 24935), (63, 25082), (64, 25091), (67, 25130), (69, 25175), (74, 25199), (75, 25205), (80, 25238), (84, 25280), (87, 25289), (92, 25331), (107, 25415), (122, 25535), (124, 25550),

Gene: Karkharias_34 Start: 24280, Stop: 25200, Start Num: 24

Candidate Starts for Karkharias_34:

(Start: 20 @24238 has 2 MA's), (Start: 24 @24280 has 96 MA's), (38, 24436), (43, 24454), (46, 24466), (63, 24613), (64, 24622), (67, 24661), (74, 24730), (75, 24736), (80, 24769), (84, 24811), (88, 24823), (119, 25042), (122, 25066), (124, 25081), (125, 25087), (132, 25168), (133, 25171),

Gene: KayMoney_35 Start: 24398, Stop: 25318, Start Num: 24

Candidate Starts for KayMoney_35:

(Start: 24 @24398 has 96 MA's), (38, 24554), (43, 24572), (46, 24584), (63, 24731), (64, 24740), (67, 24779), (74, 24848), (75, 24854), (80, 24887), (84, 24929), (92, 24980), (119, 25160), (122, 25184), (124, 25199), (125, 25205), (132, 25286), (133, 25289),

Gene: Kihatsu_37 Start: 26637, Stop: 27557, Start Num: 24

Candidate Starts for Kihatsu_37:

(Start: 24 @26637 has 96 MA's), (38, 26793), (43, 26811), (46, 26823), (63, 26970), (64, 26979), (67, 27018), (71, 27078), (74, 27087), (75, 27093), (80, 27126), (84, 27168), (88, 27180), (91, 27213), (92, 27219), (94, 27225), (107, 27303), (119, 27399), (125, 27444), (132, 27525), (133, 27528),

Gene: Kiko_37 Start: 28964, Stop: 29881, Start Num: 24

Candidate Starts for Kiko_37:

(Start: 23 @28958 has 15 MA's), (Start: 24 @28964 has 96 MA's), (47, 29147), (48, 29153), (49, 29159), (68, 29345), (74, 29408), (75, 29414), (78, 29429), (90, 29528), (91, 29534), (94, 29546), (107, 29621), (109, 29645), (110, 29648), (119, 29720), (120, 29723), (124, 29759),

Gene: Lasker_36 Start: 24581, Stop: 25501, Start Num: 24

Candidate Starts for Lasker_36:

(Start: 24 @24581 has 96 MA's), (32, 24695), (38, 24737), (43, 24755), (46, 24767), (63, 24914), (64, 24923), (67, 24962), (69, 25007), (74, 25031), (75, 25037), (80, 25070), (84, 25112), (87, 25121), (92, 25163), (107, 25247), (124, 25382),

Gene: Lawnathon_36 Start: 24435, Stop: 25352, Start Num: 24

Candidate Starts for Lawnathon_36:

(12, 24306), (15, 24312), (Start: 24 @24435 has 96 MA's), (38, 24591), (42, 24606), (46, 24618), (63, 24765), (64, 24774), (67, 24813), (69, 24858), (74, 24882), (75, 24888), (80, 24921), (84, 24963), (87, 24972), (92, 25014), (107, 25098), (124, 25233),

Gene: Lenoxika_36 Start: 26286, Stop: 27206, Start Num: 24

Candidate Starts for Lenoxika_36:

(Start: 24 @26286 has 96 MA's), (38, 26442), (43, 26460), (46, 26472), (63, 26619), (64, 26628), (67, 26667), (74, 26736), (75, 26742), (80, 26775), (84, 26817), (88, 26829), (92, 26868), (119, 27048), (122, 27072), (124, 27087), (125, 27093), (132, 27174), (133, 27177),

Gene: Lilas_37 Start: 31522, Stop: 32445, Start Num: 23

Candidate Starts for Lilas_37:

(Start: 23 @31522 has 15 MA's), (Start: 24 @31528 has 96 MA's), (Start: 26 @31552 has 1 MA's), (35, 31648), (49, 31723), (54, 31795), (60, 31846), (68, 31909), (71, 31963), (74, 31972), (78, 31993), (79, 32002), (82, 32032), (91, 32098), (104, 32164), (107, 32185), (110, 32212), (115, 32248),

Gene: LilyBell_34 Start: 24292, Stop: 25212, Start Num: 24

Candidate Starts for LilyBell_34:

(Start: 20 @24250 has 2 MA's), (Start: 24 @24292 has 96 MA's), (38, 24448), (43, 24466), (46, 24478), (63, 24625), (64, 24634), (67, 24673), (74, 24742), (75, 24748), (80, 24781), (84, 24823), (92, 24874), (119, 25054), (122, 25078), (124, 25093), (125, 25099), (132, 25180), (133, 25183),

Gene: LonelyBoi_37 Start: 31310, Stop: 32227, Start Num: 24

Candidate Starts for LonelyBoi_37:

(Start: 23 @31304 has 15 MA's), (Start: 24 @31310 has 96 MA's), (Start: 26 @31334 has 1 MA's), (35, 31430), (49, 31505), (57, 31607), (60, 31628), (68, 31691), (71, 31745), (74, 31754), (78, 31775), (79, 31784), (82, 31814), (91, 31880), (96, 31904), (104, 31946), (107, 31967), (110, 31994), (115, 32030), (116, 32036),

Gene: MUWow_35 Start: 24597, Stop: 25514, Start Num: 24

Candidate Starts for MUWow_35:

(Start: 20 @24558 has 2 MA's), (Start: 24 @24597 has 96 MA's), (38, 24753), (42, 24768), (63, 24927), (69, 25020), (71, 25035), (74, 25044), (75, 25050), (78, 25065), (80, 25083), (84, 25125), (87, 25134), (94, 25182), (107, 25260), (110, 25287), (124, 25395), (133, 25485),

Gene: Maja_28 Start: 23177, Stop: 24097, Start Num: 24

Candidate Starts for Maja_28:

(Start: 24 @23177 has 96 MA's), (38, 23333), (43, 23351), (46, 23363), (48, 23372), (51, 23420), (63, 23510), (67, 23558), (74, 23627), (75, 23633), (80, 23666), (84, 23708), (88, 23720), (92, 23759), (107, 23843), (110, 23870), (125, 23984), (133, 24068),

Gene: Malibo_38 Start: 29560, Stop: 30477, Start Num: 24

Candidate Starts for Malibo_38:

(Start: 23 @29554 has 15 MA's), (Start: 24 @29560 has 96 MA's), (35, 29680), (48, 29749), (49, 29755), (54, 29827), (57, 29857), (60, 29878), (68, 29941), (74, 30004), (78, 30025), (79, 30034), (82, 30064), (86, 30088), (107, 30217), (110, 30244), (115, 30280),

Gene: Mapleville_35 Start: 24505, Stop: 25422, Start Num: 24

Candidate Starts for Mapleville_35:

(12, 24376), (15, 24382), (Start: 24 @24505 has 96 MA's), (38, 24661), (42, 24676), (46, 24688), (63, 24835), (64, 24844), (67, 24883), (69, 24928), (74, 24952), (75, 24958), (80, 24991), (84, 25033), (87, 25042), (92, 25084), (107, 25168), (122, 25288), (124, 25303),

Gene: Marteena_35 Start: 28837, Stop: 29754, Start Num: 24

Candidate Starts for Marteena_35:

(Start: 23 @28831 has 15 MA's), (Start: 24 @28837 has 96 MA's), (Start: 26 @28861 has 1 MA's), (35, 28957), (48, 29026), (49, 29032), (60, 29155), (68, 29218), (71, 29272), (74, 29281), (78, 29302), (79, 29311), (82, 29341), (86, 29365), (104, 29473), (107, 29494), (110, 29521),

Gene: MaterMagnus_36 Start: 24582, Stop: 25499, Start Num: 24

Candidate Starts for MaterMagnus_36:

(12, 24453), (13, 24456), (15, 24459), (Start: 24 @24582 has 96 MA's), (38, 24738), (42, 24753), (46, 24765), (63, 24912), (64, 24921), (67, 24960), (69, 25005), (74, 25029), (75, 25035), (80, 25068), (84, 25110), (87, 25119), (92, 25161), (107, 25245), (122, 25365), (124, 25380),

Gene: Mcklovin_34 Start: 32550, Stop: 33467, Start Num: 24

Candidate Starts for Mcklovin_34:

(Start: 23 @32544 has 15 MA's), (Start: 24 @32550 has 96 MA's), (48, 32739), (49, 32745), (57, 32847), (62, 32871), (68, 32931), (72, 32988), (74, 32994), (75, 33000), (90, 33114), (91, 33120), (94, 33132), (107, 33207), (109, 33231), (110, 33234), (115, 33270), (116, 33276), (120, 33309), (124, 33345), (128, 33390),

Gene: Melba_35 Start: 28919, Stop: 29845, Start Num: 23

Candidate Starts for Melba_35:

(Start: 23 @28919 has 15 MA's), (Start: 24 @28925 has 96 MA's), (34, 29042), (35, 29045), (47, 29108), (48, 29114), (49, 29120), (68, 29306), (71, 29360), (72, 29363), (74, 29369), (78, 29390), (90, 29489), (91, 29495), (94, 29507), (107, 29582), (110, 29609), (115, 29645), (124, 29720),

Gene: MichaelScott_36 Start: 28688, Stop: 29605, Start Num: 24

Candidate Starts for MichaelScott_36:

(Start: 23 @28682 has 15 MA's), (Start: 24 @28688 has 96 MA's), (48, 28877), (49, 28883), (57, 28985), (62, 29009), (68, 29069), (72, 29126), (74, 29132), (75, 29138), (90, 29252), (91, 29258), (94, 29270), (107, 29345), (109, 29369), (110, 29372), (115, 29408), (116, 29414), (120, 29447), (128, 29528),

Gene: MidnightRain_38 Start: 25380, Stop: 26300, Start Num: 24

Candidate Starts for MidnightRain_38:

(12, 25251), (15, 25257), (Start: 24 @25380 has 96 MA's), (32, 25494), (43, 25554), (46, 25566), (63, 25713), (67, 25761), (69, 25806), (74, 25830), (75, 25836), (77, 25845), (80, 25869), (84, 25911), (88, 25923), (92, 25962), (96, 25980), (107, 26046), (122, 26166), (124, 26181),

Gene: MillySue_36 Start: 26192, Stop: 27112, Start Num: 24

Candidate Starts for MillySue_36:

(Start: 20 @26150 has 2 MA's), (Start: 24 @26192 has 96 MA's), (25, 26216), (32, 26306), (38, 26348), (43, 26366), (46, 26378), (51, 26435), (63, 26525), (67, 26573), (69, 26618), (74, 26642), (75, 26648), (77, 26657), (80, 26681), (107, 26858), (110, 26885), (119, 26954), (122, 26978), (124, 26993),

Gene: Moonflower_36 Start: 30479, Stop: 31372, Start Num: 26

Candidate Starts for Moonflower_36:

(Start: 23 @30449 has 15 MA's), (Start: 24 @30455 has 96 MA's), (Start: 26 @30479 has 1 MA's), (28, 30497), (34, 30572), (35, 30575), (48, 30644), (49, 30650), (62, 30776), (68, 30836), (71, 30890), (74, 30899), (78, 30920), (79, 30929), (82, 30959), (104, 31091), (107, 31112), (109, 31136), (110, 31139), (115, 31175), (118, 31196), (123, 31241),

Gene: MurphyJoseph_33 Start: 23984, Stop: 24748, Start Num: 38

Candidate Starts for MurphyJoseph_33:

(32, 23945), (38, 23984), (43, 24002), (51, 24071), (63, 24161), (67, 24209), (74, 24278), (75, 24284), (84, 24359), (88, 24371), (118, 24575), (119, 24590), (122, 24614), (125, 24635),

Gene: Mutzi_37 Start: 33648, Stop: 34565, Start Num: 24

Candidate Starts for Mutzi_37:

(Start: 23 @33642 has 15 MA's), (Start: 24 @33648 has 96 MA's), (35, 33768), (48, 33837), (49, 33843), (50, 33852), (57, 33945), (70, 34080), (71, 34083), (72, 34086), (74, 34092), (78, 34113), (86, 34176), (89, 34209), (90, 34212), (94, 34230), (104, 34284), (107, 34305), (109, 34329), (110, 34332), (115, 34368), (116, 34374), (118, 34389), (124, 34443), (133, 34536), (135, 34557),

Gene: Nandita_36 Start: 26292, Stop: 27212, Start Num: 24

Candidate Starts for Nandita_36:

(Start: 20 @26250 has 2 MA's), (Start: 24 @26292 has 96 MA's), (38, 26448), (43, 26466), (46, 26478), (63, 26625), (67, 26673), (71, 26733), (74, 26742), (75, 26748), (80, 26781), (83, 26805), (84, 26823), (88, 26835), (92, 26874), (119, 27054), (122, 27078), (124, 27093), (125, 27099), (132, 27180), (133, 27183),

Gene: NewKitty_35 Start: 24177, Stop: 25094, Start Num: 24

Candidate Starts for NewKitty_35:

(Start: 24 @24177 has 96 MA's), (38, 24333), (42, 24348), (46, 24360), (63, 24507), (67, 24555), (69, 24600), (71, 24615), (74, 24624), (75, 24630), (78, 24645), (80, 24663), (84, 24705), (87, 24714), (92, 24756), (107, 24840), (110, 24867), (122, 24960), (123, 24966), (124, 24975), (133, 25065),

Gene: NikkiHotWheels_35 Start: 24352, Stop: 25272, Start Num: 24

Candidate Starts for NikkiHotWheels_35:

(Start: 24 @24352 has 96 MA's), (38, 24508), (43, 24526), (46, 24538), (51, 24595), (63, 24685), (64, 24694), (67, 24733), (74, 24802), (75, 24808), (80, 24841), (84, 24883), (88, 24895), (92, 24934), (119, 25114), (122, 25138), (124, 25153), (125, 25159), (132, 25240), (133, 25243),

Gene: Oregano_37 Start: 27817, Stop: 28734, Start Num: 24

Candidate Starts for Oregano_37:

(Start: 23 @27811 has 15 MA's), (Start: 24 @27817 has 96 MA's), (48, 28006), (49, 28012), (57, 28114), (62, 28138), (68, 28198), (72, 28255), (74, 28261), (75, 28267), (90, 28381), (91, 28387), (94, 28399), (107, 28474), (109, 28498), (110, 28501), (115, 28537), (116, 28543), (120, 28576),

Gene: PatriciaStar_34 Start: 29249, Stop: 30166, Start Num: 24

Candidate Starts for PatriciaStar_34:

(Start: 23 @29243 has 15 MA's), (Start: 24 @29249 has 96 MA's), (Start: 26 @29273 has 1 MA's), (35, 29369), (49, 29444), (54, 29516), (60, 29567), (68, 29630), (71, 29684), (74, 29693), (78, 29714), (79, 29723), (107, 29906), (110, 29933), (115, 29969), (132, 30134),

Gene: PeggyLeg03_34 Start: 24890, Stop: 25810, Start Num: 24

Candidate Starts for PeggyLeg03_34:

(Start: 24 @24890 has 96 MA's), (38, 25046), (43, 25064), (46, 25076), (63, 25223), (64, 25232), (67, 25271), (74, 25340), (75, 25346), (80, 25379), (84, 25421), (88, 25433), (119, 25652), (121, 25664), (122, 25676), (124, 25691), (125, 25697), (132, 25778), (133, 25781),

Gene: PhriskyACE_35 Start: 28658, Stop: 29575, Start Num: 24

Candidate Starts for PhriskyACE_35:

(Start: 23 @28652 has 15 MA's), (Start: 24 @28658 has 96 MA's), (47, 28841), (48, 28847), (49, 28853), (68, 29039), (74, 29102), (75, 29108), (78, 29123), (90, 29222), (91, 29228), (94, 29240), (107, 29315), (109, 29339), (110, 29342), (115, 29378), (116, 29384), (117, 29396), (124, 29453), (128, 29498),

Gene: Pipp_33 Start: 27701, Stop: 28627, Start Num: 23

Candidate Starts for Pipp_33:

(Start: 23 @27701 has 15 MA's), (Start: 24 @27707 has 96 MA's), (34, 27824), (35, 27827), (47, 27890), (48, 27896), (49, 27902), (57, 28004), (68, 28088), (71, 28142), (72, 28145), (74, 28151), (78, 28172), (90, 28271), (94, 28289), (107, 28364), (110, 28391), (115, 28427), (124, 28502),

Gene: Pollux_37 Start: 30910, Stop: 31827, Start Num: 24

Candidate Starts for Pollux_37:

(Start: 23 @30904 has 15 MA's), (Start: 24 @30910 has 96 MA's), (Start: 26 @30934 has 1 MA's), (35, 31030), (48, 31099), (49, 31105), (60, 31228), (68, 31291), (71, 31345), (74, 31354), (78, 31375), (79, 31384), (82, 31414), (86, 31438), (104, 31546), (107, 31567), (110, 31594),

Gene: Popper_34 Start: 26204, Stop: 27124, Start Num: 24

Candidate Starts for Popper_34:

(Start: 24 @26204 has 96 MA's), (27, 26243), (38, 26360), (43, 26378), (46, 26390), (63, 26537), (67, 26585), (71, 26645), (74, 26654), (75, 26660), (80, 26693), (84, 26735), (88, 26747), (92, 26786), (119, 26966), (122, 26990), (124, 27005), (125, 27011), (132, 27092), (133, 27095),

Gene: Pucara_31 Start: 24120, Stop: 25040, Start Num: 24

Candidate Starts for Pucara_31:

(Start: 24 @24120 has 96 MA's), (38, 24276), (43, 24294), (46, 24306), (63, 24453), (64, 24462), (67, 24501), (74, 24570), (75, 24576), (80, 24609), (84, 24651), (119, 24882), (122, 24906), (125, 24927), (132, 25008), (133, 25011),

Gene: Pytheas_34 Start: 28853, Stop: 29788, Start Num: 23

Candidate Starts for Pytheas_34:

(19, 28799), (Start: 23 @28853 has 15 MA's), (35, 28985), (51, 29102), (57, 29162), (58, 29165), (62, 29186), (70, 29297), (74, 29309), (84, 29390), (93, 29444), (95, 29450), (99, 29468), (107, 29528), (109, 29552), (110, 29555), (115, 29591), (116, 29597), (126, 29675), (130, 29735),

Gene: QuinnAvery_38 Start: 27407, Stop: 28369, Start Num: 20

Candidate Starts for QuinnAvery_38:

(Start: 20 @27407 has 2 MA's), (Start: 24 @27449 has 96 MA's), (38, 27605), (43, 27623), (46, 27635), (63, 27782), (64, 27791), (67, 27830), (70, 27887), (74, 27899), (75, 27905), (80, 27938), (83, 27962), (84, 27980), (88, 27992), (119, 28211), (122, 28235), (124, 28250), (125, 28256), (132, 28337), (133, 28340),

Gene: RadFad_36 Start: 24572, Stop: 25492, Start Num: 24

Candidate Starts for RadFad_36:

(12, 24443), (17, 24470), (Start: 24 @24572 has 96 MA's), (32, 24686), (43, 24746), (46, 24758), (51, 24815), (63, 24905), (67, 24953), (74, 25022), (75, 25028), (80, 25061), (83, 25085), (122, 25358), (124, 25373), (125, 25379),

Gene: Raphaella_36 Start: 24506, Stop: 25423, Start Num: 24

Candidate Starts for Raphaella_36:

(12, 24377), (15, 24383), (Start: 24 @24506 has 96 MA's), (38, 24662), (42, 24677), (46, 24689), (63, 24836), (64, 24845), (67, 24884), (69, 24929), (74, 24953), (75, 24959), (80, 24992), (84, 25034), (87, 25043), (92, 25085), (107, 25169), (122, 25289), (124, 25304),

Gene: Richie_36 Start: 24587, Stop: 25504, Start Num: 24

Candidate Starts for Richie_36:

(12, 24458), (15, 24464), (Start: 24 @24587 has 96 MA's), (42, 24758), (46, 24770), (51, 24827), (63, 24917), (64, 24926), (67, 24965), (69, 25010), (74, 25034), (75, 25040), (80, 25073), (84, 25115), (87, 25124), (92, 25166), (107, 25250), (122, 25370), (124, 25385),

Gene: Rizz_37 Start: 27992, Stop: 28915, Start Num: 23

Candidate Starts for Rizz_37:

(Start: 23 @27992 has 15 MA's), (Start: 24 @27998 has 96 MA's), (48, 28187), (49, 28193), (57, 28295), (62, 28319), (68, 28379), (72, 28436), (74, 28442), (75, 28448), (90, 28562), (91, 28568), (94, 28580), (107, 28655), (109, 28679), (110, 28682), (115, 28718), (116, 28724), (120, 28757), (128, 28838),

Gene: Ryan_36 Start: 26903, Stop: 27823, Start Num: 24

Candidate Starts for Ryan_36:

(Start: 20 @26861 has 2 MA's), (Start: 24 @26903 has 96 MA's), (38, 27059), (43, 27077), (46, 27089), (63, 27236), (64, 27245), (67, 27284), (74, 27353), (75, 27359), (80, 27392), (83, 27416), (84, 27434), (88, 27446), (92, 27485), (119, 27665), (122, 27689), (124, 27704), (125, 27710), (132, 27791), (133, 27794),

Gene: Saintcarr_36 Start: 26465, Stop: 27385, Start Num: 24

Candidate Starts for Saintcarr_36:

(Start: 20 @26423 has 2 MA's), (Start: 24 @26465 has 96 MA's), (38, 26621), (43, 26639), (46, 26651), (63, 26798), (67, 26846), (71, 26906), (74, 26915), (75, 26921), (80, 26954), (83, 26978), (84, 26996), (88, 27008), (92, 27047), (119, 27227), (122, 27251), (125, 27272), (132, 27353), (133, 27356),

Gene: Sakai_36 Start: 24515, Stop: 25432, Start Num: 24

Candidate Starts for Sakai_36:

(12, 24386), (15, 24392), (Start: 24 @24515 has 96 MA's), (38, 24671), (42, 24686), (46, 24698), (63, 24845), (64, 24854), (67, 24893), (69, 24938), (74, 24962), (75, 24968), (80, 25001), (84, 25043), (87, 25052), (92, 25094), (107, 25178), (122, 25298), (124, 25313),

Gene: Samman98_36 Start: 27315, Stop: 28232, Start Num: 24

Candidate Starts for Samman98_36:

(Start: 23 @27309 has 15 MA's), (Start: 24 @27315 has 96 MA's), (48, 27504), (49, 27510), (57, 27612), (62, 27636), (68, 27696), (72, 27753), (74, 27759), (75, 27765), (90, 27879), (91, 27885), (94, 27897), (107, 27972), (109, 27996), (110, 27999), (115, 28035), (116, 28041), (117, 28053), (128, 28155),

Gene: Sashimi_35 Start: 25890, Stop: 26810, Start Num: 24

Candidate Starts for Sashimi_35:

(12, 25755), (13, 25758), (16, 25773), (17, 25782), (Start: 20 @25848 has 2 MA's), (Start: 24 @25890 has 96 MA's), (38, 26046), (40, 26052), (43, 26064), (46, 26076), (63, 26223), (64, 26232), (67, 26271),

(69, 26316), (74, 26340), (75, 26346), (88, 26433), (96, 26490), (106, 26550), (107, 26556), (110, 26583), (122, 26676), (124, 26691), (133, 26781),

Gene: Satrap_36 Start: 24680, Stop: 25600, Start Num: 24

Candidate Starts for Satrap_36:

(12, 24551), (Start: 24 @24680 has 96 MA's), (43, 24854), (63, 25013), (67, 25061), (69, 25106), (74, 25130), (75, 25136), (77, 25145), (80, 25169), (88, 25223), (96, 25280), (107, 25346), (122, 25466), (124, 25481), (133, 25571),

Gene: Schism_38 Start: 27082, Stop: 28002, Start Num: 24

Candidate Starts for Schism_38:

(Start: 20 @27040 has 2 MA's), (Start: 24 @27082 has 96 MA's), (38, 27238), (43, 27256), (46, 27268), (51, 27325), (63, 27415), (64, 27424), (67, 27463), (71, 27523), (74, 27532), (75, 27538), (80, 27571), (84, 27613), (88, 27625), (92, 27664), (119, 27844), (122, 27868), (124, 27883), (125, 27889), (132, 27970), (133, 27973),

Gene: Seahorse_38 Start: 26187, Stop: 27107, Start Num: 24

Candidate Starts for Seahorse_38:

(12, 26058), (15, 26064), (Start: 24 @26187 has 96 MA's), (32, 26301), (41, 26352), (43, 26361), (46, 26373), (51, 26430), (63, 26520), (64, 26529), (67, 26568), (74, 26637), (75, 26643), (77, 26652), (80, 26676), (83, 26700), (108, 26874), (122, 26973), (124, 26988), (133, 27078),

Gene: SharkTale_39 Start: 33669, Stop: 34586, Start Num: 24

Candidate Starts for SharkTale_39:

(Start: 23 @33663 has 15 MA's), (Start: 24 @33669 has 96 MA's), (34, 33786), (35, 33789), (47, 33852), (48, 33858), (49, 33864), (68, 34050), (71, 34104), (72, 34107), (74, 34113), (78, 34134), (90, 34233), (94, 34251), (107, 34326), (110, 34353), (124, 34464), (133, 34557), (135, 34578),

Gene: Shlim410_35 Start: 30765, Stop: 31682, Start Num: 24

Candidate Starts for Shlim410_35:

(Start: 23 @30759 has 15 MA's), (Start: 24 @30765 has 96 MA's), (46, 30945), (48, 30954), (49, 30960), (66, 31131), (68, 31146), (72, 31203), (74, 31209), (75, 31215), (78, 31230), (90, 31329), (91, 31335), (94, 31347), (107, 31422), (109, 31446), (110, 31449), (115, 31485), (116, 31491), (117, 31503), (128, 31605),

Gene: Shukran_39 Start: 25561, Stop: 26481, Start Num: 24

Candidate Starts for Shukran_39:

(Start: 24 @25561 has 96 MA's), (32, 25675), (43, 25735), (46, 25747), (63, 25894), (64, 25903), (67, 25942), (69, 25987), (74, 26011), (75, 26017), (77, 26026), (80, 26050), (84, 26092), (85, 26095), (87, 26101), (92, 26143), (96, 26161), (107, 26227), (110, 26254), (122, 26347), (124, 26362),

Gene: Sixama_89 Start: 47436, Stop: 48350, Start Num: 26

Candidate Starts for Sixama_89:

(Start: 26 @47436 has 1 MA's), (30, 47481), (37, 47538), (40, 47568), (45, 47586), (53, 47667), (55, 47685), (68, 47796), (69, 47853), (73, 47874), (74, 47877), (97, 48027), (101, 48063), (105, 48072),

Gene: Sixsevenium_40 Start: 32694, Stop: 33611, Start Num: 24

Candidate Starts for Sixsevenium_40:

(Start: 23 @32688 has 15 MA's), (Start: 24 @32694 has 96 MA's), (34, 32811), (35, 32814), (47, 32877), (48, 32883), (49, 32889), (68, 33075), (71, 33129), (72, 33132), (74, 33138), (78, 33159), (90, 33258), (91, 33264), (94, 33276), (107, 33351), (110, 33378), (119, 33450), (124, 33489), (135, 33603),

Gene: SonDevVon_36 Start: 24920, Stop: 25837, Start Num: 24

Candidate Starts for SonDevVon_36:

(Start: 24 @24920 has 96 MA's), (38, 25076), (42, 25091), (46, 25103), (63, 25250), (67, 25298), (69, 25343), (74, 25367), (75, 25373), (78, 25388), (80, 25406), (84, 25448), (87, 25457), (107, 25583), (110, 25610), (124, 25718), (133, 25808),

Gene: SpicyFrank_36 Start: 24807, Stop: 25724, Start Num: 24

Candidate Starts for SpicyFrank_36:

(12, 24678), (15, 24684), (Start: 24 @24807 has 96 MA's), (38, 24963), (42, 24978), (46, 24990), (63, 25137), (67, 25185), (69, 25230), (74, 25254), (75, 25260), (80, 25293), (84, 25335), (87, 25344), (88, 25347), (94, 25392), (107, 25470), (119, 25566), (122, 25590), (124, 25605), (133, 25695),

Gene: Spooky_35 Start: 27760, Stop: 28698, Start Num: 23

Candidate Starts for Spooky_35:

(21, 27748), (Start: 23 @27760 has 15 MA's), (31, 27853), (39, 27925), (50, 27976), (56, 28054), (62, 28093), (65, 28132), (70, 28204), (74, 28216), (77, 28231), (78, 28237), (81, 28261), (84, 28297), (95, 28357), (99, 28375), (102, 28408), (107, 28435), (109, 28459), (110, 28462), (114, 28495), (115, 28501), (126, 28585), (128, 28621), (135, 28690),

Gene: Sporco_37 Start: 24563, Stop: 25480, Start Num: 24

Candidate Starts for Sporco_37:

(12, 24434), (15, 24440), (Start: 24 @24563 has 96 MA's), (38, 24719), (42, 24734), (46, 24746), (63, 24893), (64, 24902), (67, 24941), (69, 24986), (74, 25010), (75, 25016), (80, 25049), (84, 25091), (87, 25100), (92, 25142), (107, 25226), (122, 25346), (124, 25361),

Gene: Sprinklemunch_42 Start: 31103, Stop: 32026, Start Num: 23

Candidate Starts for Sprinklemunch_42:

(Start: 23 @31103 has 15 MA's), (Start: 24 @31109 has 96 MA's), (34, 31226), (35, 31229), (48, 31298), (49, 31304), (60, 31427), (62, 31430), (68, 31490), (71, 31544), (74, 31553), (78, 31574), (90, 31673), (91, 31679), (104, 31745), (107, 31766), (110, 31793), (116, 31835), (120, 31868), (135, 32018),

Gene: Squiddly_37 Start: 28992, Stop: 29930, Start Num: 23

Candidate Starts for Squiddly_37:

(21, 28980), (Start: 23 @28992 has 15 MA's), (39, 29157), (50, 29208), (62, 29325), (70, 29436), (74, 29448), (77, 29463), (78, 29469), (79, 29478), (81, 29493), (84, 29529), (90, 29568), (95, 29589), (99, 29607), (102, 29640), (107, 29667), (109, 29691), (110, 29694), (111, 29697), (113, 29721), (115, 29733), (124, 29808), (125, 29814), (126, 29817), (133, 29901), (135, 29922),

Gene: ThayneTheZag_36 Start: 24729, Stop: 25649, Start Num: 24

Candidate Starts for ThayneTheZag_36:

(Start: 24 @24729 has 96 MA's), (43, 24903), (46, 24915), (59, 25050), (63, 25062), (64, 25071), (67, 25110), (69, 25155), (73, 25176), (74, 25179), (75, 25185), (80, 25218), (84, 25260), (87, 25269), (107, 25395), (119, 25491), (122, 25515), (124, 25530),

Gene: Thimann_34 Start: 26659, Stop: 27576, Start Num: 24

Candidate Starts for Thimann_34:

(Start: 23 @26653 has 15 MA's), (Start: 24 @26659 has 96 MA's), (48, 26848), (49, 26854), (57, 26956), (62, 26980), (68, 27040), (72, 27097), (74, 27103), (75, 27109), (90, 27223), (91, 27229), (94, 27241), (107, 27316), (109, 27340), (110, 27343), (115, 27379), (116, 27385), (117, 27397), (128, 27499),

Gene: Tiff81_32 Start: 21991, Stop: 22911, Start Num: 24

Candidate Starts for Tiff81_32:

(12, 21862), (Start: 24 @21991 has 96 MA's), (32, 22105), (43, 22165), (46, 22177), (63, 22324), (67, 22372), (69, 22417), (74, 22441), (75, 22447), (88, 22534), (96, 22591), (107, 22657), (110, 22684), (122, 22777), (124, 22792), (133, 22882),

Gene: ToastyOats_38 Start: 26923, Stop: 27843, Start Num: 24

Candidate Starts for ToastyOats_38:

(2, 26617), (4, 26629), (7, 26695), (10, 26767), (12, 26791), (17, 26818), (Start: 24 @26923 has 96 MA's), (38, 27079), (43, 27097), (46, 27109), (50, 27133), (63, 27256), (64, 27265), (67, 27304), (71, 27364), (74, 27373), (75, 27379), (80, 27412), (84, 27454), (88, 27466), (91, 27499), (92, 27505), (94, 27511), (103, 27562), (107, 27589), (119, 27685), (122, 27709), (124, 27724), (125, 27730), (132, 27811), (133, 27814),

Gene: Toodles_36 Start: 26753, Stop: 27673, Start Num: 24

Candidate Starts for Toodles_36:

(2, 26447), (4, 26459), (7, 26525), (10, 26597), (12, 26621), (17, 26648), (Start: 24 @26753 has 96 MA's), (25, 26777), (38, 26909), (43, 26927), (63, 27086), (64, 27095), (67, 27134), (74, 27203), (75, 27209), (80, 27242), (84, 27284), (92, 27335), (119, 27515), (122, 27539), (124, 27554), (132, 27641), (133, 27644), (134, 27656),

Gene: Tuti_32 Start: 28208, Stop: 29125, Start Num: 24

Candidate Starts for Tuti_32:

(Start: 23 @28202 has 15 MA's), (Start: 24 @28208 has 96 MA's), (48, 28397), (49, 28403), (68, 28589), (72, 28646), (74, 28652), (75, 28658), (90, 28772), (91, 28778), (94, 28790), (107, 28865), (109, 28889), (110, 28892), (115, 28928), (116, 28934), (117, 28946), (124, 29003), (128, 29048),

Gene: Twinkle_35 Start: 31824, Stop: 32741, Start Num: 24

Candidate Starts for Twinkle_35:

(Start: 23 @31818 has 15 MA's), (Start: 24 @31824 has 96 MA's), (46, 32004), (48, 32013), (49, 32019), (66, 32190), (68, 32205), (72, 32262), (74, 32268), (75, 32274), (78, 32289), (90, 32388), (91, 32394), (94, 32406), (107, 32481), (109, 32505), (110, 32508), (115, 32544), (116, 32550), (117, 32562), (128, 32664),

Gene: Utz_31 Start: 28505, Stop: 29425, Start Num: 24

Candidate Starts for Utz_31:

(Start: 23 @28499 has 15 MA's), (Start: 24 @28505 has 96 MA's), (34, 28622), (35, 28625), (47, 28688), (48, 28694), (49, 28700), (57, 28802), (68, 28886), (71, 28940), (72, 28943), (74, 28949), (78, 28970), (90, 29069), (94, 29087), (107, 29162), (110, 29189), (115, 29225), (124, 29300),

Gene: Vopal_39 Start: 27391, Stop: 28311, Start Num: 24

Candidate Starts for Vopal_39:

(Start: 20 @27349 has 2 MA's), (Start: 24 @27391 has 96 MA's), (38, 27547), (43, 27565), (46, 27577), (63, 27724), (67, 27772), (69, 27817), (71, 27832), (74, 27841), (75, 27847), (78, 27862), (80, 27880), (84, 27922), (87, 27931), (92, 27973), (107, 28057), (110, 28084), (124, 28192), (133, 28282),

Gene: WinkNick_38 Start: 28007, Stop: 28924, Start Num: 24

Candidate Starts for WinkNick_38:

(Start: 23 @28001 has 15 MA's), (Start: 24 @28007 has 96 MA's), (48, 28196), (49, 28202), (57, 28304), (62, 28328), (68, 28388), (72, 28445), (74, 28451), (75, 28457), (90, 28571), (91, 28577), (94, 28589), (107, 28664), (109, 28688), (110, 28691), (115, 28727), (116, 28733), (117, 28745), (128, 28847),

Gene: Yonex_36 Start: 26903, Stop: 27823, Start Num: 24

Candidate Starts for Yonex_36:

(Start: 20 @26861 has 2 MA's), (Start: 24 @26903 has 96 MA's), (38, 27059), (43, 27077), (46, 27089), (63, 27236), (64, 27245), (67, 27284), (74, 27353), (75, 27359), (80, 27392), (83, 27416), (84, 27434), (88, 27446), (92, 27485), (119, 27665), (122, 27689), (124, 27704), (125, 27710), (132, 27791), (133, 27794),

Gene: YoungHarleezy_36 Start: 24585, Stop: 25502, Start Num: 24

Candidate Starts for YoungHarleezy_36:

(12, 24456), (15, 24462), (Start: 24 @24585 has 96 MA's), (38, 24741), (42, 24756), (46, 24768), (63, 24915), (64, 24924), (67, 24963), (69, 25008), (74, 25032), (75, 25038), (80, 25071), (84, 25113), (87, 25122), (92, 25164), (107, 25248), (122, 25368), (124, 25383),

Gene: YungMoney_41 Start: 35216, Stop: 36133, Start Num: 24

Candidate Starts for YungMoney_41:

(Start: 23 @35210 has 15 MA's), (Start: 24 @35216 has 96 MA's), (34, 35333), (35, 35336), (47, 35399), (48, 35405), (49, 35411), (68, 35597), (71, 35651), (72, 35654), (74, 35660), (78, 35681), (90, 35780), (91, 35786), (94, 35798), (107, 35873), (110, 35900), (115, 35936), (119, 35972), (124, 36011), (133, 36104), (135, 36125),

Gene: Zaheer_36 Start: 26991, Stop: 27911, Start Num: 24

Candidate Starts for Zaheer_36:

(Start: 24 @26991 has 96 MA's), (38, 27147), (43, 27165), (46, 27177), (63, 27324), (64, 27333), (67, 27372), (71, 27432), (74, 27441), (75, 27447), (80, 27480), (84, 27522), (88, 27534), (91, 27567), (92, 27573), (94, 27579), (107, 27657), (119, 27753), (125, 27798), (132, 27879), (133, 27882),

Gene: Zucker_29 Start: 23884, Stop: 24804, Start Num: 24

Candidate Starts for Zucker_29:

(Start: 20 @23842 has 2 MA's), (Start: 24 @23884 has 96 MA's), (43, 24058), (46, 24070), (63, 24217), (64, 24226), (67, 24265), (74, 24334), (75, 24340), (76, 24343), (80, 24373), (84, 24415), (107, 24550), (119, 24646), (121, 24658), (122, 24670), (124, 24685), (125, 24691),