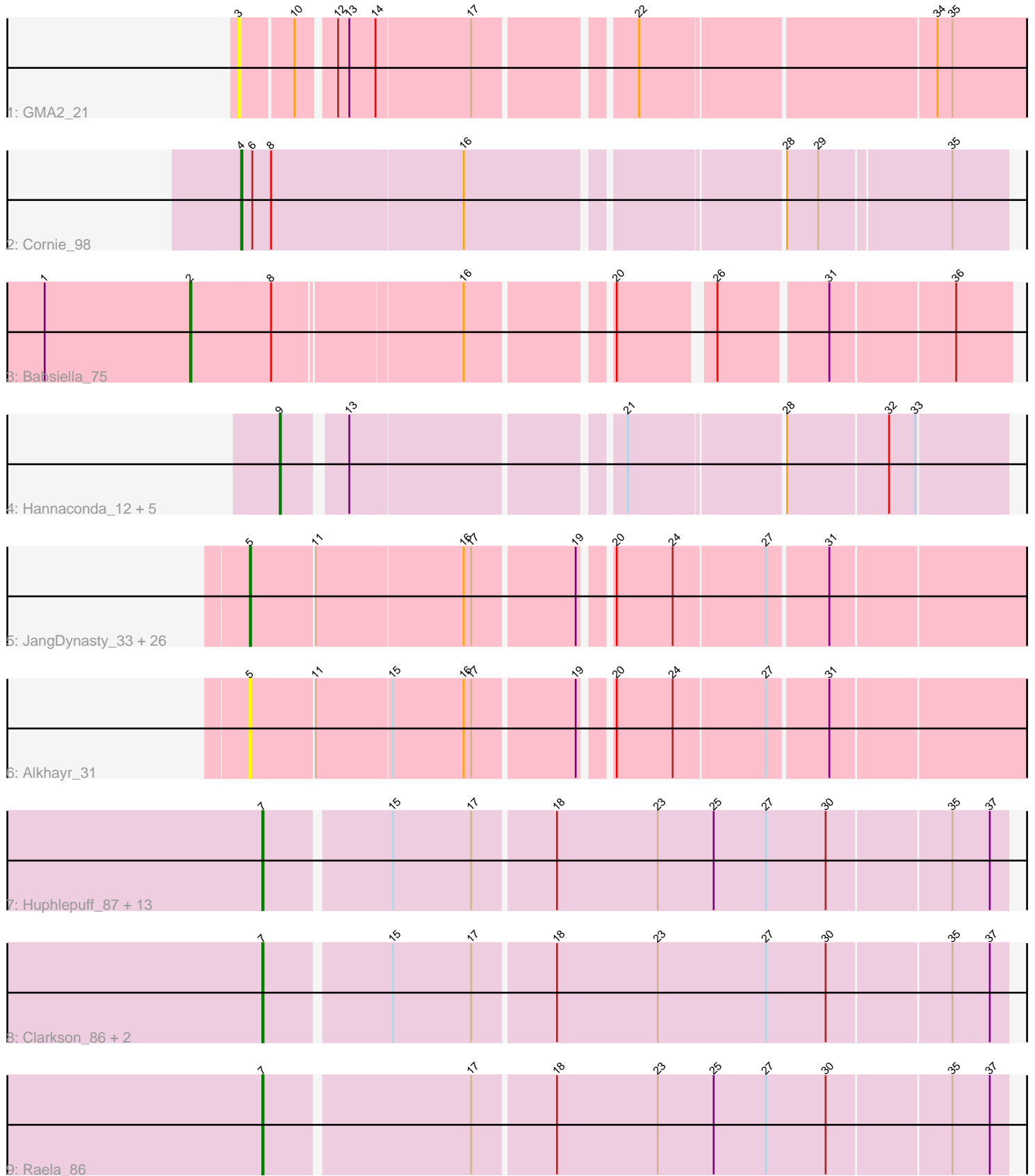


Pham 85722



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 85722 Report

This analysis was run 04/28/24 on database version 559.

Pham number 85722 has 55 members, 9 are drafts.

Phages represented in each track:

- Track 1 : GMA2_21
- Track 2 : Cornie_98
- Track 3 : Babsiella_75
- Track 4 : Hannaconda_12, Superphikiman_15, Porcelain_15, MiaZeal_15, Courthouse_15, KashFlow_9
- Track 5 : JangDynasty_33, Shida_33, Firecracker_33, Bora_30, Catdawg_33, Dylan_32, Murai_33, TelAviv_30, Schuy_31, YungJamal_36, Krili_32, Blessica_34, Idergollasper_33, Ryadel_36, Smooch_35, MadKillah_34, Familton_34, Vorrrps_32, Corndog_35, Zakhe101_33, Mori_32, Wildflower_31, NiebruSaylor_32, Ashwin_32, SchoolBus_33, FoulBall_30, Winget_34
- Track 6 : Alkhayr_31
- Track 7 : Huphlepuuff_87, Blackbeetle_85, MosMoris_79, VasuNzinga_82, Corazon_80, RedRaider77_84, Caprice_77, LittleLaf_83, Lilbit_83, Marvin_79, JoieB_85, Tesla_80, Poise_85, Gattaca_82
- Track 8 : Clarkson_86, Pringar_81, Beelzebub_89
- Track 9 : Raela_86

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

The start number called the most often in the published annotations is 5, it was called in 22 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr_31, Ashwin_32, Blessica_34, Bora_30, Catdawg_33, Corndog_35, Dylan_32, Familton_34, Firecracker_33, FoulBall_30, Idergollasper_33, JangDynasty_33, Krili_32, MadKillah_34, Mori_32, Murai_33, NiebruSaylor_32, Ryadel_36, SchoolBus_33, Schuy_31, Shida_33, Smooch_35, TelAviv_30, Vorrrps_32, Wildflower_31, Winget_34, YungJamal_36, Zakhe101_33,

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

-

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

- Babsiella_75, Beelzebub_89, Blackbeetle_85, Caprice_77, Clarkson_86, Corazon_80, Cornie_98, Courthouse_15, GMA2_21, Gattaca_82, Hannaconda_12, Huphlepuuff_87, JoieB_85, KashFlow_9, Lilbit_83, LittleLaf_83, Marvin_79, MiaZeal_15, MosMoris_79, Poise_85, Porcelain_15, Pringar_81, Raela_86, RedRaider77_84, Superphikiman_15, Tesla_80, VasuNzinga_82,

Summary by start number:

Start 2:

- Found in 1 of 55 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Babsiella_75 (I1),

Start 3:

- Found in 1 of 55 (1.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA2_21 (DS),

Start 4:

- Found in 1 of 55 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cornie_98 (F5),

Start 5:

- Found in 28 of 55 (50.9%) of genes in pham
- Manual Annotations of this start: 22 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_31 (O), Ashwin_32 (O), Blessica_34 (O), Bora_30 (O), Catdawg_33 (O), Corndog_35 (O), Dylan_32 (O), Familton_34 (O), Firecracker_33 (O), FoulBall_30 (O), Idergollasper_33 (O), JangDynasty_33 (O), Krili_32 (O), MadKillah_34 (O), Mori_32 (O), Murai_33 (O), NiebruSaylor_32 (O), Ryadel_36 (O), SchoolBus_33 (O), Schuy_31 (O), Shida_33 (O), Smooch_35 (O), TelAviv_30 (O), Vorrrps_32 (O), Wildflower_31 (O), Winget_34 (O), YungJamal_36 (O), Zakhe101_33 (O),

Start 7:

- Found in 18 of 55 (32.7%) of genes in pham
- Manual Annotations of this start: 16 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_89 (S), Blackbeetle_85 (S), Caprice_77 (S), Clarkson_86 (S), Corazon_80 (S), Gattaca_82 (S), Huphlepuuff_87 (S), JoieB_85 (S), Lilbit_83 (S), LittleLaf_83 (S), Marvin_79 (S), MosMoris_79 (S), Poise_85 (S), Pringar_81 (S), Raela_86 (S), RedRaider77_84 (S), Tesla_80 (S), VasuNzinga_82 (S),

Start 9:

- Found in 6 of 55 (10.9%) of genes in pham
- Manual Annotations of this start: 6 of 46
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Courthouse_15 (J), Hannaconda_12 (J), KashFlow_9 (J), MiaZeal_15 (J), Porcelain_15 (J), Superphikiman_15 (J),

Summary by clusters:

There are 6 clusters represented in this pham: F5, I1, J, O, S, DS,

Info for manual annotations of cluster F5:

- Start number 4 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster I1:

- Start number 2 was manually annotated 1 time for cluster I1.

Info for manual annotations of cluster J:

- Start number 9 was manually annotated 6 times for cluster J.

Info for manual annotations of cluster O:

- Start number 5 was manually annotated 22 times for cluster O.

Info for manual annotations of cluster S:

- Start number 7 was manually annotated 16 times for cluster S.

Gene Information:

Gene: Alkhayr_31 Start: 16227, Stop: 16811, Start Num: 5

Candidate Starts for Alkhayr_31:

(Start: 5 @16227 has 22 MA's), (11, 16275), (15, 16335), (16, 16392), (17, 16398), (19, 16476), (20, 16494), (24, 16539), (27, 16611), (31, 16656),

Gene: Ashwin_32 Start: 16237, Stop: 16821, Start Num: 5

Candidate Starts for Ashwin_32:

(Start: 5 @16237 has 22 MA's), (11, 16285), (16, 16402), (17, 16408), (19, 16486), (20, 16504), (24, 16549), (27, 16621), (31, 16666),

Gene: Babsiella_75 Start: 45785, Stop: 46384, Start Num: 2

Candidate Starts for Babsiella_75:

(1, 45668), (Start: 2 @45785 has 1 MA's), (8, 45848), (16, 45992), (20, 46094), (26, 46163), (31, 46244), (36, 46340),

Gene: Beelzebub_89 Start: 45185, Stop: 45763, Start Num: 7

Candidate Starts for Beelzebub_89:

(Start: 7 @45185 has 16 MA's), (15, 45281), (17, 45344), (18, 45407), (23, 45488), (27, 45575), (30, 45623), (35, 45719), (37, 45749),

Gene: Blackbeetle_85 Start: 44546, Stop: 45124, Start Num: 7

Candidate Starts for Blackbeetle_85:

(Start: 7 @44546 has 16 MA's), (15, 44642), (17, 44705), (18, 44768), (23, 44849), (25, 44894), (27, 44936), (30, 44984), (35, 45080), (37, 45110),

Gene: Blessica_34 Start: 16628, Stop: 17212, Start Num: 5

Candidate Starts for Blessica_34:

(Start: 5 @16628 has 22 MA's), (11, 16676), (16, 16793), (17, 16799), (19, 16877), (20, 16895), (24, 16940), (27, 17012), (31, 17057),

Gene: Bora_30 Start: 15690, Stop: 16274, Start Num: 5

Candidate Starts for Bora_30:

(Start: 5 @15690 has 22 MA's), (11, 15738), (16, 15855), (17, 15861), (19, 15939), (20, 15957), (24, 16002), (27, 16074), (31, 16119),

Gene: Caprice_77 Start: 44484, Stop: 45062, Start Num: 7

Candidate Starts for Caprice_77:

(Start: 7 @44484 has 16 MA's), (15, 44580), (17, 44643), (18, 44706), (23, 44787), (25, 44832), (27, 44874), (30, 44922), (35, 45018), (37, 45048),

Gene: Catdawg_33 Start: 16317, Stop: 16901, Start Num: 5

Candidate Starts for Catdawg_33:

(Start: 5 @16317 has 22 MA's), (11, 16365), (16, 16482), (17, 16488), (19, 16566), (20, 16584), (24, 16629), (27, 16701), (31, 16746),

Gene: Clarkson_86 Start: 44865, Stop: 45443, Start Num: 7

Candidate Starts for Clarkson_86:

(Start: 7 @44865 has 16 MA's), (15, 44961), (17, 45024), (18, 45087), (23, 45168), (27, 45255), (30, 45303), (35, 45399), (37, 45429),

Gene: Corazon_80 Start: 45059, Stop: 45637, Start Num: 7

Candidate Starts for Corazon_80:

(Start: 7 @45059 has 16 MA's), (15, 45155), (17, 45218), (18, 45281), (23, 45362), (25, 45407), (27, 45449), (30, 45497), (35, 45593), (37, 45623),

Gene: Corndog_35 Start: 16775, Stop: 17359, Start Num: 5

Candidate Starts for Corndog_35:

(Start: 5 @16775 has 22 MA's), (11, 16823), (16, 16940), (17, 16946), (19, 17024), (20, 17042), (24, 17087), (27, 17159), (31, 17204),

Gene: Cornie_98 Start: 53915, Stop: 54496, Start Num: 4

Candidate Starts for Cornie_98:

(Start: 4 @53915 has 1 MA's), (6, 53924), (8, 53939), (16, 54092), (28, 54326), (29, 54350), (35, 54452),

Gene: Courthouse_15 Start: 9624, Stop: 10157, Start Num: 9

Candidate Starts for Courthouse_15:

(Start: 9 @9624 has 6 MA's), (13, 9669), (21, 9870), (28, 9987), (32, 10065), (33, 10086),

Gene: Dylan_32 Start: 16042, Stop: 16626, Start Num: 5

Candidate Starts for Dylan_32:

(Start: 5 @16042 has 22 MA's), (11, 16090), (16, 16207), (17, 16213), (19, 16291), (20, 16309), (24, 16354), (27, 16426), (31, 16471),

Gene: Familton_34 Start: 16321, Stop: 16905, Start Num: 5

Candidate Starts for Familton_34:

(Start: 5 @16321 has 22 MA's), (11, 16369), (16, 16486), (17, 16492), (19, 16570), (20, 16588), (24, 16633), (27, 16705), (31, 16750),

Gene: Firecracker_33 Start: 15940, Stop: 16524, Start Num: 5

Candidate Starts for Firecracker_33:

(Start: 5 @15940 has 22 MA's), (11, 15988), (16, 16105), (17, 16111), (19, 16189), (20, 16207), (24, 16252), (27, 16324), (31, 16369),

Gene: FoulBall_30 Start: 16315, Stop: 16899, Start Num: 5

Candidate Starts for FoulBall_30:

(Start: 5 @16315 has 22 MA's), (11, 16363), (16, 16480), (17, 16486), (19, 16564), (20, 16582), (24, 16627), (27, 16699), (31, 16744),

Gene: GMA2_21 Start: 19657, Stop: 20244, Start Num: 3

Candidate Starts for GMA2_21:

(3, 19657), (10, 19696), (12, 19723), (13, 19732), (14, 19753), (17, 19828), (22, 19942), (34, 20167), (35, 20179),

Gene: Gattaca_82 Start: 44644, Stop: 45222, Start Num: 7

Candidate Starts for Gattaca_82:

(Start: 7 @44644 has 16 MA's), (15, 44740), (17, 44803), (18, 44866), (23, 44947), (25, 44992), (27, 45034), (30, 45082), (35, 45178), (37, 45208),

Gene: Hannaconda_12 Start: 8304, Stop: 8837, Start Num: 9

Candidate Starts for Hannaconda_12:

(Start: 9 @8304 has 6 MA's), (13, 8349), (21, 8550), (28, 8667), (32, 8745), (33, 8766),

Gene: Huphlebuff_87 Start: 44670, Stop: 45248, Start Num: 7

Candidate Starts for Huphlebuff_87:

(Start: 7 @44670 has 16 MA's), (15, 44766), (17, 44829), (18, 44892), (23, 44973), (25, 45018), (27, 45060), (30, 45108), (35, 45204), (37, 45234),

Gene: Idergollasper_33 Start: 16315, Stop: 16899, Start Num: 5

Candidate Starts for Idergollasper_33:

(Start: 5 @16315 has 22 MA's), (11, 16363), (16, 16480), (17, 16486), (19, 16564), (20, 16582), (24, 16627), (27, 16699), (31, 16744),

Gene: JangDynasty_33 Start: 16410, Stop: 16994, Start Num: 5

Candidate Starts for JangDynasty_33:

(Start: 5 @16410 has 22 MA's), (11, 16458), (16, 16575), (17, 16581), (19, 16659), (20, 16677), (24, 16722), (27, 16794), (31, 16839),

Gene: JoieB_85 Start: 45133, Stop: 45711, Start Num: 7

Candidate Starts for JoieB_85:

(Start: 7 @45133 has 16 MA's), (15, 45229), (17, 45292), (18, 45355), (23, 45436), (25, 45481), (27, 45523), (30, 45571), (35, 45667), (37, 45697),

Gene: KashFlow_9 Start: 7870, Stop: 8403, Start Num: 9

Candidate Starts for KashFlow_9:

(Start: 9 @7870 has 6 MA's), (13, 7915), (21, 8116), (28, 8233), (32, 8311), (33, 8332),

Gene: Krili_32 Start: 16043, Stop: 16627, Start Num: 5

Candidate Starts for Krili_32:

(Start: 5 @16043 has 22 MA's), (11, 16091), (16, 16208), (17, 16214), (19, 16292), (20, 16310), (24, 16355), (27, 16427), (31, 16472),

Gene: Lilbit_83 Start: 45230, Stop: 45808, Start Num: 7

Candidate Starts for Lilbit_83:

(Start: 7 @45230 has 16 MA's), (15, 45326), (17, 45389), (18, 45452), (23, 45533), (25, 45578), (27, 45620), (30, 45668), (35, 45764), (37, 45794),

Gene: LittleLaf_83 Start: 44959, Stop: 45537, Start Num: 7

Candidate Starts for LittleLaf_83:

(Start: 7 @44959 has 16 MA's), (15, 45055), (17, 45118), (18, 45181), (23, 45262), (25, 45307), (27, 45349), (30, 45397), (35, 45493), (37, 45523),

Gene: MadKillah_34 Start: 16253, Stop: 16837, Start Num: 5

Candidate Starts for MadKillah_34:

(Start: 5 @16253 has 22 MA's), (11, 16301), (16, 16418), (17, 16424), (19, 16502), (20, 16520), (24, 16565), (27, 16637), (31, 16682),

Gene: Marvin_79 Start: 44755, Stop: 45333, Start Num: 7

Candidate Starts for Marvin_79:

(Start: 7 @44755 has 16 MA's), (15, 44851), (17, 44914), (18, 44977), (23, 45058), (25, 45103), (27, 45145), (30, 45193), (35, 45289), (37, 45319),

Gene: MiaZeal_15 Start: 9443, Stop: 9976, Start Num: 9

Candidate Starts for MiaZeal_15:

(Start: 9 @9443 has 6 MA's), (13, 9488), (21, 9689), (28, 9806), (32, 9884), (33, 9905),

Gene: Mori_32 Start: 15914, Stop: 16498, Start Num: 5

Candidate Starts for Mori_32:

(Start: 5 @15914 has 22 MA's), (11, 15962), (16, 16079), (17, 16085), (19, 16163), (20, 16181), (24, 16226), (27, 16298), (31, 16343),

Gene: MosMoris_79 Start: 44650, Stop: 45228, Start Num: 7

Candidate Starts for MosMoris_79:

(Start: 7 @44650 has 16 MA's), (15, 44746), (17, 44809), (18, 44872), (23, 44953), (25, 44998), (27, 45040), (30, 45088), (35, 45184), (37, 45214),

Gene: Murai_33 Start: 16104, Stop: 16688, Start Num: 5

Candidate Starts for Murai_33:

(Start: 5 @16104 has 22 MA's), (11, 16152), (16, 16269), (17, 16275), (19, 16353), (20, 16371), (24, 16416), (27, 16488), (31, 16533),

Gene: NiebruSaylor_32 Start: 15915, Stop: 16499, Start Num: 5

Candidate Starts for NiebruSaylor_32:

(Start: 5 @15915 has 22 MA's), (11, 15963), (16, 16080), (17, 16086), (19, 16164), (20, 16182), (24, 16227), (27, 16299), (31, 16344),

Gene: Poise_85 Start: 44546, Stop: 45124, Start Num: 7

Candidate Starts for Poise_85:

(Start: 7 @44546 has 16 MA's), (15, 44642), (17, 44705), (18, 44768), (23, 44849), (25, 44894), (27, 44936), (30, 44984), (35, 45080), (37, 45110),

Gene: Porcelain_15 Start: 9443, Stop: 9976, Start Num: 9

Candidate Starts for Porcelain_15:

(Start: 9 @9443 has 6 MA's), (13, 9488), (21, 9689), (28, 9806), (32, 9884), (33, 9905),

Gene: Pringar_81 Start: 44471, Stop: 45049, Start Num: 7

Candidate Starts for Pringar_81:

(Start: 7 @44471 has 16 MA's), (15, 44567), (17, 44630), (18, 44693), (23, 44774), (27, 44861), (30, 44909), (35, 45005), (37, 45035),

Gene: Raela_86 Start: 45097, Stop: 45675, Start Num: 7

Candidate Starts for Raela_86:

(Start: 7 @45097 has 16 MA's), (17, 45256), (18, 45319), (23, 45400), (25, 45445), (27, 45487), (30, 45535), (35, 45631), (37, 45661),

Gene: RedRaider77_84 Start: 44491, Stop: 45069, Start Num: 7

Candidate Starts for RedRaider77_84:

(Start: 7 @44491 has 16 MA's), (15, 44587), (17, 44650), (18, 44713), (23, 44794), (25, 44839), (27, 44881), (30, 44929), (35, 45025), (37, 45055),

Gene: Ryadel_36 Start: 17131, Stop: 17715, Start Num: 5

Candidate Starts for Ryadel_36:

(Start: 5 @17131 has 22 MA's), (11, 17179), (16, 17296), (17, 17302), (19, 17380), (20, 17398), (24, 17443), (27, 17515), (31, 17560),

Gene: SchoolBus_33 Start: 16318, Stop: 16902, Start Num: 5

Candidate Starts for SchoolBus_33:

(Start: 5 @16318 has 22 MA's), (11, 16366), (16, 16483), (17, 16489), (19, 16567), (20, 16585), (24, 16630), (27, 16702), (31, 16747),

Gene: Schuy_31 Start: 16262, Stop: 16846, Start Num: 5

Candidate Starts for Schuy_31:

(Start: 5 @16262 has 22 MA's), (11, 16310), (16, 16427), (17, 16433), (19, 16511), (20, 16529), (24, 16574), (27, 16646), (31, 16691),

Gene: Shida_33 Start: 16169, Stop: 16753, Start Num: 5

Candidate Starts for Shida_33:

(Start: 5 @16169 has 22 MA's), (11, 16217), (16, 16334), (17, 16340), (19, 16418), (20, 16436), (24, 16481), (27, 16553), (31, 16598),

Gene: Smooch_35 Start: 17458, Stop: 18042, Start Num: 5

Candidate Starts for Smooch_35:

(Start: 5 @17458 has 22 MA's), (11, 17506), (16, 17623), (17, 17629), (19, 17707), (20, 17725), (24, 17770), (27, 17842), (31, 17887),

Gene: Superphikiman_15 Start: 9624, Stop: 10157, Start Num: 9

Candidate Starts for Superphikiman_15:

(Start: 9 @9624 has 6 MA's), (13, 9669), (21, 9870), (28, 9987), (32, 10065), (33, 10086),

Gene: TelAviv_30 Start: 16312, Stop: 16896, Start Num: 5

Candidate Starts for TelAviv_30:

(Start: 5 @16312 has 22 MA's), (11, 16360), (16, 16477), (17, 16483), (19, 16561), (20, 16579), (24, 16624), (27, 16696), (31, 16741),

Gene: Tesla_80 Start: 44340, Stop: 44918, Start Num: 7

Candidate Starts for Tesla_80:

(Start: 7 @44340 has 16 MA's), (15, 44436), (17, 44499), (18, 44562), (23, 44643), (25, 44688), (27, 44730), (30, 44778), (35, 44874), (37, 44904),

Gene: VasuNzinga_82 Start: 44429, Stop: 45007, Start Num: 7

Candidate Starts for VasuNzinga_82:

(Start: 7 @44429 has 16 MA's), (15, 44525), (17, 44588), (18, 44651), (23, 44732), (25, 44777), (27, 44819), (30, 44867), (35, 44963), (37, 44993),

Gene: Vorrps_32 Start: 15915, Stop: 16499, Start Num: 5

Candidate Starts for Vorrps_32:

(Start: 5 @15915 has 22 MA's), (11, 15963), (16, 16080), (17, 16086), (19, 16164), (20, 16182), (24, 16227), (27, 16299), (31, 16344),

Gene: Wildflower_31 Start: 15901, Stop: 16485, Start Num: 5

Candidate Starts for Wildflower_31:

(Start: 5 @15901 has 22 MA's), (11, 15949), (16, 16066), (17, 16072), (19, 16150), (20, 16168), (24, 16213), (27, 16285), (31, 16330),

Gene: Winget_34 Start: 16584, Stop: 17168, Start Num: 5

Candidate Starts for Winget_34:

(Start: 5 @16584 has 22 MA's), (11, 16632), (16, 16749), (17, 16755), (19, 16833), (20, 16851), (24, 16896), (27, 16968), (31, 17013),

Gene: YungJamal_36 Start: 16647, Stop: 17231, Start Num: 5

Candidate Starts for YungJamal_36:

(Start: 5 @16647 has 22 MA's), (11, 16695), (16, 16812), (17, 16818), (19, 16896), (20, 16914), (24, 16959), (27, 17031), (31, 17076),

Gene: Zakhe101_33 Start: 16046, Stop: 16630, Start Num: 5

Candidate Starts for Zakhe101_33:

(Start: 5 @16046 has 22 MA's), (11, 16094), (16, 16211), (17, 16217), (19, 16295), (20, 16313), (24, 16358), (27, 16430), (31, 16475),