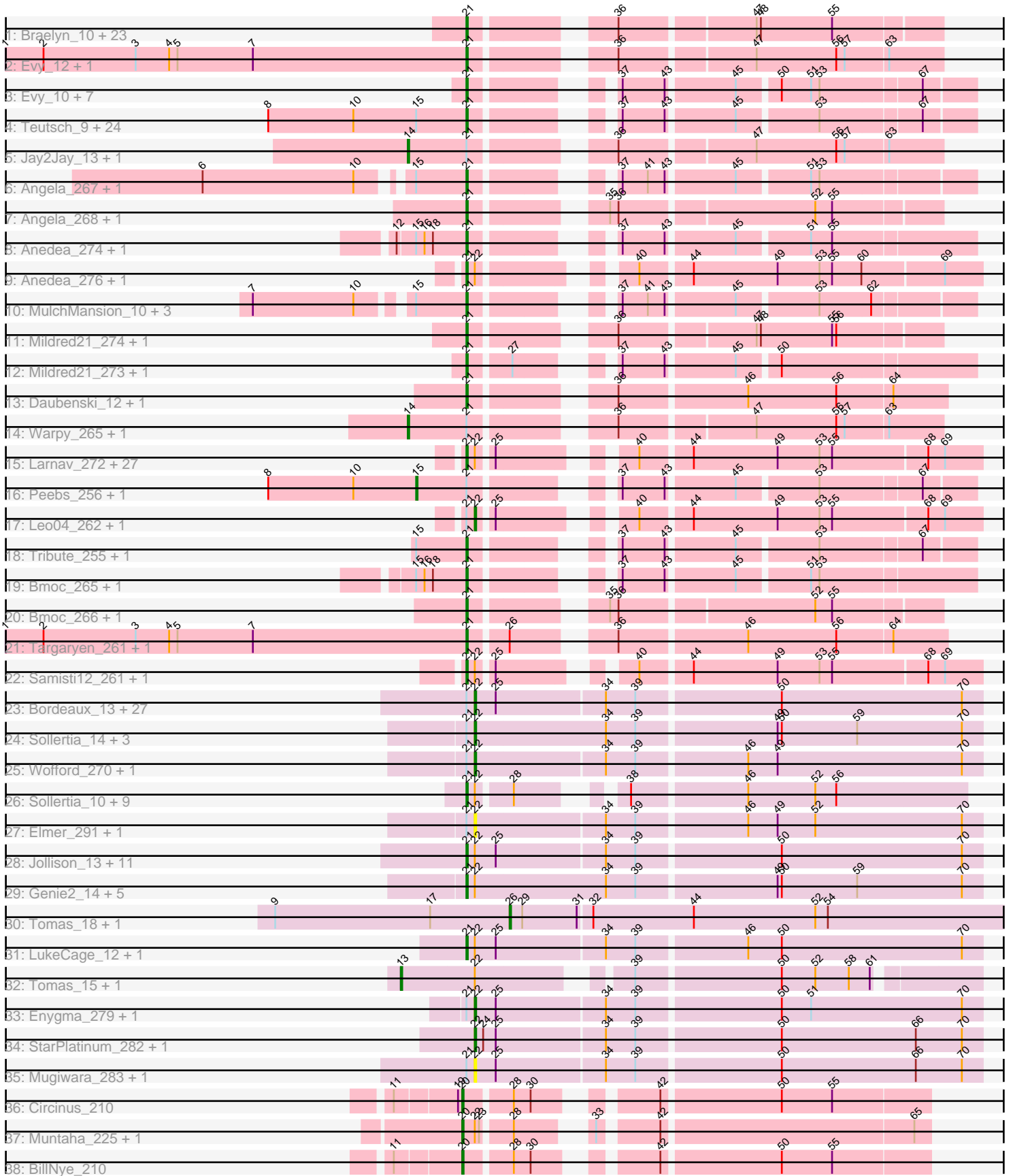


Pham 171208



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 171208 Report

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

Pham number 171208 has 203 members, 34 are drafts.

Phages represented in each track:

- Track 1 : Braelyn_10, Navo_251, Bartholomune_10, LilMartin_263, PinkiePie_10, Persimmon_260, WhereRU_11, Paradiddles_10, Persimmon_9, LilMartin_11, Liandry_259, MulchMansion_267, Liandry_10, NootNoot_255, WhereRU_267, Paradiddles_251, NootNoot_10, Braelyn_255, Squillium_10, MulchMansion_11, PinkiePie_260, Navo_9, Bartholomune_260, Squillium_262
- Track 2 : Evy_12, Evy_250
- Track 3 : Evy_10, Jay2Jay_266, Evy_248, Jay2Jay_11, Warpy_11, Targaryen_260, Warpy_263, Targaryen_9
- Track 4 : Teutsch_9, BlueOtter_9, Cursive_261, EGole_9, HangryHippo_9, Larnav_270, Watermoore_256, Larnav_11, HangryHippo_261, Lululemon_258, Pepperwood_10, BlueOtter_261, Leo04_260, PacManQ_259, Watermoore_9, Cross_9, Cursive_7, Lululemon_8, Cross_257, Sushi23_10, EGole_263, Leo04_9, Pepperwood_259, PacManQ_8, Teutsch_256
- Track 5 : Jay2Jay_13, Jay2Jay_268
- Track 6 : Angela_267, Angela_10
- Track 7 : Angela_268, Angela_11
- Track 8 : Anedea_274, Anedea_9
- Track 9 : Anedea_276, Anedea_11
- Track 10 : MulchMansion_10, MulchMansion_266, LilMartin_10, LilMartin_262
- Track 11 : Mildred21_274, Mildred21_11
- Track 12 : Mildred21_273, Mildred21_10
- Track 13 : Daubenski_12, Daubenski_256
- Track 14 : Warpy_265, Warpy_13
- Track 15 : Larnav_272, Larnav_13, HangryHippo_263, Lululemon_260, Peebs_258, Pepperwood_12, Watermoore_258, PacManQ_261, Tribute_11, Cross_11, Cross_259, PacManQ_10, Peebs_11, Sushi23_12, EGole_265, Teutsch_11, Cursive_9, Pepperwood_261, Sushi23_262, Cursive_263, Watermoore_11, BlueOtter_11, Tribute_257, Teutsch_258, EGole_11, HangryHippo_11, Lululemon_10, BlueOtter_263
- Track 16 : Peebs_256, Peebs_9
- Track 17 : Leo04_262, Leo04_11
- Track 18 : Tribute_255, Tribute_9
- Track 19 : Bmoc_265, Bmoc_9
- Track 20 : Bmoc_266, Bmoc_10
- Track 21 : Targaryen_261, Targaryen_10
- Track 22 : Samisti12_261, Samisti12_10

- Track 23 : Bordeaux_13, MindFlayer_264, MindFlayer_12, IchabodCrane_12, Spelly_13, PumpkinSpice_277, TomSawyer_278, CeilingFan_286, Wipeout_265, Battuta_13, Quarant19_13, CeilingFan_12, Quarant19_274, Spelly_279, Karimac_271, SaltySpittoon_13, Wipeout_12, Gibbi_283, PumpkinSpice_13, TomSawyer_13, Gibbi_12, KentuckyRacer_287, Battuta_270, Karimac_13, Bordeaux_270, IchabodCrane_265, KentuckyRacer_13, Birchlyn_10
- Track 24 : Sollertia_14, Yaboi_275, Yaboi_14, Sollertia_270
- Track 25 : Wofford_270, Wofford_12
- Track 26 : Sollertia_10, Yaboi_271, Stanimal_10, Genie2_10, BoomerJR_10, Stanimal_265, Yaboi_10, BoomerJR_265, Genie2_265, Sollertia_266
- Track 27 : Elmer_291, Elmer_15
- Track 28 : Jollison_13, Amabiko_13, Spilled_12, Jollison_277, Spilled_280, Birchlyn_270, SaltySpittoon_273, Amabiko_277, JimJam_281, Starbow_270, Starbow_13, JimJam_13
- Track 29 : Genie2_14, BoomerJR_14, Stanimal_14, Stanimal_269, Genie2_269, BoomerJR_269
- Track 30 : Tomas_18, Tomas_274
- Track 31 : LukeCage_12, LukeCage_275
- Track 32 : Tomas_15, Tomas_271
- Track 33 : Enygma_279, Enygma_11
- Track 34 : StarPlatinum_282, StarPlatinum_12
- Track 35 : Mugiwara_283, Mugiwara_11
- Track 36 : Circinus_210
- Track 37 : Muntaha_225, Wakanda_221
- Track 38 : BillNye_210

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

The start number called the most often in the published annotations is 21, it was called in 121 of the 169 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_13, Amabiko_277, Anedea_11, Anedea_274, Anedea_276, Anedea_9, Angela_10, Angela_11, Angela_267, Angela_268, Bartholomune_10, Bartholomune_260, Birchlyn_270, BlueOtter_11, BlueOtter_261, BlueOtter_263, BlueOtter_9, Bmoc_10, Bmoc_265, Bmoc_266, Bmoc_9, BoomerJR_10, BoomerJR_14, BoomerJR_265, BoomerJR_269, Braelyn_10, Braelyn_255, Cross_11, Cross_257, Cross_259, Cross_9, Cursive_261, Cursive_263, Cursive_7, Cursive_9, Daubenski_12, Daubenski_256, EGole_11, EGole_263, EGole_265, EGole_9, Evy_10, Evy_12, Evy_248, Evy_250, Genie2_10, Genie2_14, Genie2_265, Genie2_269, HangryHippo_11, HangryHippo_261, HangryHippo_263, HangryHippo_9, Jay2Jay_11, Jay2Jay_266, JimJam_13, JimJam_281, Jollison_13, Jollison_277, Larnav_11, Larnav_13, Larnav_270, Larnav_272, Leo04_260, Leo04_9, Liandry_10, Liandry_259, LilMartin_10, LilMartin_11, LilMartin_262, LilMartin_263, LukeCage_12, LukeCage_275, Lululemon_10, Lululemon_258, Lululemon_260, Lululemon_8, Mildred21_10, Mildred21_11, Mildred21_273, Mildred21_274, MulchMansion_10, MulchMansion_11, MulchMansion_266, MulchMansion_267, Navo_251, Navo_9, NootNoot_10, NootNoot_255, PacManQ_10, PacManQ_259, PacManQ_261, PacManQ_8, Paradiddles_10, Paradiddles_251, Peebs_11, Peebs_258, Pepperwood_10, Pepperwood_12,

Pepperwood_259, Pepperwood_261, Persimmon_260, Persimmon_9, PinkiePie_10, PinkiePie_260, SaltySpittoon_273, Samisti12_10, Samisti12_261, Sollertia_10, Sollertia_266, Spilled_12, Spilled_280, Squillum_10, Squillum_262, Stanimal_10, Stanimal_14, Stanimal_265, Stanimal_269, Starbow_13, Starbow_270, Sushi23_10, Sushi23_12, Sushi23_262, Targaryen_10, Targaryen_260, Targaryen_261, Targaryen_9, Teutsch_11, Teutsch_256, Teutsch_258, Teutsch_9, Tribute_11, Tribute_255, Tribute_257, Tribute_9, Warpy_11, Warpy_263, Watermoore_11, Watermoore_256, Watermoore_258, Watermoore_9, WhereRU_11, WhereRU_267, Yaboi_10, Yaboi_271,

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

- Battuta_13, Battuta_270, Birchlyn_10, Bordeaux_13, Bordeaux_270, CeilingFan_12, CeilingFan_286, Elmer_15, Elmer_291, Enygma_11, Enygma_279, Gibbi_12, Gibbi_283, IchabodCrane_12, IchabodCrane_265, Jay2Jay_13, Jay2Jay_268, Karimac_13, Karimac_271, KentuckyRacer_13, KentuckyRacer_287, Leo04_11, Leo04_262, MindFlayer_12, MindFlayer_264, Mugiwara_11, Mugiwara_283, Peebs_256, Peebs_9, PumpkinSpice_13, PumpkinSpice_277, Quaran19_13, Quaran19_274, SaltySpittoon_13, Sollertia_14, Sollertia_270, Spelly_13, Spelly_279, TomSawyer_13, TomSawyer_278, Warpy_13, Warpy_265, Wipeout_12, Wipeout_265, Wofford_12, Wofford_270, Yaboi_14, Yaboi_275,

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

- BillNye_210, Circinus_210, Muntaha_225, StarPlatinum_12, StarPlatinum_282, Tomas_15, Tomas_18, Tomas_271, Tomas_274, Wakanda_221,

Summary by start number:

Start 13:

- Found in 2 of 203 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 169
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tomas_15 (BE2), Tomas_271 (BE2),

Start 14:

- Found in 4 of 203 (2.0%) of genes in pham
- Manual Annotations of this start: 4 of 169
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jay2Jay_13 (BE1), Jay2Jay_268 (BE1), Warpy_13 (BE1), Warpy_265 (BE1),

Start 15:

- Found in 39 of 203 (19.2%) of genes in pham
- Manual Annotations of this start: 2 of 169
- Called 5.1% of time when present
- Phage (with cluster) where this start called: Peebs_256 (BE1), Peebs_9 (BE1),

Start 20:

- Found in 4 of 203 (2.0%) of genes in pham
- Manual Annotations of this start: 4 of 169
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillNye_210 (BK2), Circinus_210 (BK2), Muntaha_225 (BK2), Wakanda_221 (BK2),

Start 21:

- Found in 193 of 203 (95.1%) of genes in pham
- Manual Annotations of this start: 121 of 169
- Called 75.1% of time when present
- Phage (with cluster) where this start called: Amabiko_13 (BE2), Amabiko_277 (BE2), Anedea_11 (BE1), Anedea_274 (BE1), Anedea_276 (BE1), Anedea_9 (BE1), Angela_10 (BE1), Angela_11 (BE1), Angela_267 (BE1), Angela_268 (BE1), Bartholomune_10 (BE1), Bartholomune_260 (BE1), Birchlyn_270 (BE2), BlueOtter_11 (BE1), BlueOtter_261 (BE1), BlueOtter_263 (BE1), BlueOtter_9 (BE1), Bmoc_10 (BE1), Bmoc_265 (BE1), Bmoc_266 (BE1), Bmoc_9 (BE1), BoomerJR_10 (BE2), BoomerJR_14 (BE2), BoomerJR_265 (BE2), BoomerJR_269 (BE2), Braelyn_10 (BE1), Braelyn_255 (BE1), Cross_11 (BE1), Cross_257 (BE1), Cross_259 (BE1), Cross_9 (BE1), Cursive_261 (BE1), Cursive_263 (BE1), Cursive_7 (BE1), Cursive_9 (BE1), Daubenski_12 (BE1), Daubenski_256 (BE1), EGole_11 (BE1), EGole_263 (BE1), EGole_265 (BE1), EGole_9 (BE1), Evy_10 (BE1), Evy_12 (BE1), Evy_248 (BE1), Evy_250 (BE1), Genie2_10 (BE2), Genie2_14 (BE2), Genie2_265 (BE2), Genie2_269 (BE2), HangryHippo_11 (BE1), HangryHippo_261 (BE1), HangryHippo_263 (BE1), HangryHippo_9 (BE1), Jay2Jay_11 (BE1), Jay2Jay_266 (BE1), JimJam_13 (BE2), JimJam_281 (BE2), Jollison_13 (BE2), Jollison_277 (BE2), Larnav_11 (BE1), Larnav_13 (BE1), Larnav_270 (BE1), Larnav_272 (BE1), Leo04_260 (BE1), Leo04_9 (BE1), Liandry_10 (BE1), Liandry_259 (BE1), LilMartin_10 (BE1), LilMartin_11 (BE1), LilMartin_262 (BE1), LilMartin_263 (BE1), LukeCage_12 (BE2), LukeCage_275 (BE2), Lululemon_10 (BE1), Lululemon_258 (BE1), Lululemon_260 (BE1), Lululemon_8 (BE1), Mildred21_10 (BE1), Mildred21_11 (BE1), Mildred21_273 (BE1), Mildred21_274 (BE1), MulchMansion_10 (BE1), MulchMansion_11 (BE1), MulchMansion_266 (BE1), MulchMansion_267 (BE1), Navo_251 (BE1), Navo_9 (BE1), NootNoot_10 (BE1), NootNoot_255 (BE1), PacManQ_10 (BE1), PacManQ_259 (BE1), PacManQ_261 (BE1), PacManQ_8 (BE1), Paradiddles_10 (BE1), Paradiddles_251 (BE1), Peebs_11 (BE1), Peebs_258 (BE1), Pepperwood_10 (BE1), Pepperwood_12 (BE1), Pepperwood_259 (BE1), Pepperwood_261 (BE1), Persimmon_260 (BE1), Persimmon_9 (BE1), PinkiePie_10 (BE1), PinkiePie_260 (BE1), SaltySpittoon_273 (BE2), Samisti12_10 (BE1), Samisti12_261 (BE1), Sollertia_10 (BE2), Sollertia_266 (BE2), Spilled_12 (BE2), Spilled_280 (BE2), Squillium_10 (BE1), Squillium_262 (BE1), Stanimal_10 (BE2), Stanimal_14 (BE2), Stanimal_265 (BE2), Stanimal_269 (BE2), Starbow_13 (BE2), Starbow_270 (BE2), Sushi23_10 (BE1), Sushi23_12 (BE1), Sushi23_262 (BE1), Targaryen_10 (BE1), Targaryen_260 (BE1), Targaryen_261 (BE1), Targaryen_9 (BE1), Teutsch_11 (BE1), Teutsch_256 (BE1), Teutsch_258 (BE1), Teutsch_9 (BE1), Tribute_11 (BE1), Tribute_255 (BE1), Tribute_257 (BE1), Tribute_9 (BE1), Warpy_11 (BE1), Warpy_263 (BE1), Watermoore_11 (BE1), Watermoore_256 (BE1), Watermoore_258 (BE1), Watermoore_9 (BE1), WhereRU_11 (BE1), WhereRU_267 (BE1), Yaboi_10 (BE2), Yaboi_271 (BE2),

Start 22:

- Found in 110 of 203 (54.2%) of genes in pham
- Manual Annotations of this start: 34 of 169
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Battuta_13 (BE2), Battuta_270 (BE2), Birchlyn_10 (BE2), Bordeaux_13 (BE2), Bordeaux_270 (BE2), CeilingFan_12 (BE2), CeilingFan_286 (BE2), Elmer_15 (BE2), Elmer_291 (BE2), Enygma_11 (BE2), Enygma_279 (BE2), Gibbi_12 (BE2), Gibbi_283 (BE2), IchabodCrane_12 (BE2), IchabodCrane_265 (BE2), Karimac_13 (BE2), Karimac_271 (BE2),

KentuckyRacer_13 (BE2), KentuckyRacer_287 (BE2), Leo04_11 (BE1), Leo04_262 (BE1), MindFlayer_12 (BE2), MindFlayer_264 (BE2), Mugiwara_11 (BE2), Mugiwara_283 (BE2), PumpkinSpice_13 (BE2), PumpkinSpice_277 (BE2), Quaran19_13 (BE2), Quaran19_274 (BE2), SaltySpittoon_13 (BE2), Sollertia_14 (BE2), Sollertia_270 (BE2), Spelly_13 (BE2), Spelly_279 (BE2), StarPlatinum_12 (BE2), StarPlatinum_282 (BE2), TomSawyer_13 (BE2), TomSawyer_278 (BE2), Wipeout_12 (BE2), Wipeout_265 (BE2), Wofford_12 (BE2), Wofford_270 (BE2), Yaboi_14 (BE2), Yaboi_275 (BE2),

Start 26:

- Found in 4 of 203 (2.0%) of genes in pham
- Manual Annotations of this start: 2 of 169
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Tomas_18 (BE2), Tomas_274 (BE2),

Summary by clusters:

There are 3 clusters represented in this pham: BE2, BE1, BK2,

Info for manual annotations of cluster BE1:

- Start number 14 was manually annotated 4 times for cluster BE1.
- Start number 15 was manually annotated 2 times for cluster BE1.
- Start number 21 was manually annotated 93 times for cluster BE1.
- Start number 22 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 13 was manually annotated 2 times for cluster BE2.
- Start number 21 was manually annotated 28 times for cluster BE2.
- Start number 22 was manually annotated 32 times for cluster BE2.
- Start number 26 was manually annotated 2 times for cluster BE2.

Info for manual annotations of cluster BK2:

- Start number 20 was manually annotated 4 times for cluster BK2.

Gene Information:

Gene: Amabiko_13 Start: 7147, Stop: 6788, Start Num: 21

Candidate Starts for Amabiko_13:

(Start: 21 @7147 has 121 MA's), (Start: 22 @7141 has 34 MA's), (25, 7126), (34, 7051), (39, 7030), (50, 6931), (70, 6802),

Gene: Amabiko_277 Start: 125973, Stop: 125614, Start Num: 21

Candidate Starts for Amabiko_277:

(Start: 21 @125973 has 121 MA's), (Start: 22 @125967 has 34 MA's), (25, 125952), (34, 125877), (39, 125856), (50, 125757), (70, 125628),

Gene: Anedea_274 Start: 128991, Stop: 128683, Start Num: 21

Candidate Starts for Anedea_274:

(12, 129039), (Start: 15 @129027 has 2 MA's), (16, 129021), (18, 129015), (Start: 21 @128991 has 121 MA's), (37, 128919), (43, 128889), (45, 128844), (51, 128796), (55, 128781),

Gene: Anedea_276 Start: 129542, Stop: 129219, Start Num: 21

Candidate Starts for Anedea_276:

(Start: 21 @129542 has 121 MA's), (Start: 22 @129536 has 34 MA's), (40, 129455), (44, 129422), (49, 129362), (53, 129332), (55, 129323), (60, 129302), (69, 129245),

Gene: Anedea_9 Start: 5942, Stop: 5634, Start Num: 21

Candidate Starts for Anedea_9:

(12, 5990), (Start: 15 @5978 has 2 MA's), (16, 5972), (18, 5966), (Start: 21 @5942 has 121 MA's), (37, 5870), (43, 5840), (45, 5795), (51, 5747), (55, 5732),

Gene: Anedea_11 Start: 6493, Stop: 6170, Start Num: 21

Candidate Starts for Anedea_11:

(Start: 21 @6493 has 121 MA's), (Start: 22 @6487 has 34 MA's), (40, 6406), (44, 6373), (49, 6313), (53, 6283), (55, 6274), (60, 6253), (69, 6196),

Gene: Angela_267 Start: 128577, Stop: 128272, Start Num: 21

Candidate Starts for Angela_267:

(6, 128748), (10, 128640), (Start: 15 @128613 has 2 MA's), (Start: 21 @128577 has 121 MA's), (37, 128505), (41, 128487), (43, 128475), (45, 128430), (51, 128382), (53, 128376),

Gene: Angela_268 Start: 129119, Stop: 128820, Start Num: 21

Candidate Starts for Angela_268:

(Start: 21 @129119 has 121 MA's), (35, 129044), (36, 129038), (52, 128906), (55, 128894),

Gene: Angela_10 Start: 6174, Stop: 5869, Start Num: 21

Candidate Starts for Angela_10:

(6, 6345), (10, 6237), (Start: 15 @6210 has 2 MA's), (Start: 21 @6174 has 121 MA's), (37, 6102), (41, 6084), (43, 6072), (45, 6027), (51, 5979), (53, 5973),

Gene: Angela_11 Start: 6716, Stop: 6417, Start Num: 21

Candidate Starts for Angela_11:

(Start: 21 @6716 has 121 MA's), (35, 6641), (36, 6635), (52, 6503), (55, 6491),

Gene: Bartholomune_10 Start: 6043, Stop: 5744, Start Num: 21

Candidate Starts for Bartholomune_10:

(Start: 21 @6043 has 121 MA's), (36, 5962), (47, 5872), (48, 5869), (55, 5818),

Gene: Bartholomune_260 Start: 127142, Stop: 126843, Start Num: 21

Candidate Starts for Bartholomune_260:

(Start: 21 @127142 has 121 MA's), (36, 127061), (47, 126971), (48, 126968), (55, 126917),

Gene: Battuta_13 Start: 7141, Stop: 6788, Start Num: 22

Candidate Starts for Battuta_13:

(Start: 21 @7147 has 121 MA's), (Start: 22 @7141 has 34 MA's), (25, 7126), (34, 7051), (39, 7030), (50, 6931), (70, 6802),

Gene: Battuta_270 Start: 125296, Stop: 124943, Start Num: 22

Candidate Starts for Battuta_270:

(Start: 21 @125302 has 121 MA's), (Start: 22 @125296 has 34 MA's), (25, 125281), (34, 125206), (39, 125185), (50, 125086), (70, 124957),

Gene: BillNye_210 Start: 109627, Stop: 109917, Start Num: 20

Candidate Starts for BillNye_210:

(11, 109582), (Start: 20 @109627 has 4 MA's), (28, 109657), (30, 109669), (42, 109732), (50, 109813), (55, 109849),

Gene: Birchlyn_270 Start: 121091, Stop: 120732, Start Num: 21

Candidate Starts for Birchlyn_270:

(Start: 21 @121091 has 121 MA's), (Start: 22 @121085 has 34 MA's), (25, 121070), (34, 120995), (39, 120974), (50, 120875), (70, 120746),

Gene: Birchlyn_10 Start: 4994, Stop: 4641, Start Num: 22

Candidate Starts for Birchlyn_10:

(Start: 21 @5000 has 121 MA's), (Start: 22 @4994 has 34 MA's), (25, 4979), (34, 4904), (39, 4883), (50, 4784), (70, 4655),

Gene: BlueOtter_9 Start: 5793, Stop: 5488, Start Num: 21

Candidate Starts for BlueOtter_9:

(8, 5934), (10, 5874), (Start: 15 @5829 has 2 MA's), (Start: 21 @5793 has 121 MA's), (37, 5721), (43, 5691), (45, 5646), (53, 5592), (67, 5523),

Gene: BlueOtter_261 Start: 126880, Stop: 126575, Start Num: 21

Candidate Starts for BlueOtter_261:

(8, 127021), (10, 126961), (Start: 15 @126916 has 2 MA's), (Start: 21 @126880 has 121 MA's), (37, 126808), (43, 126778), (45, 126733), (53, 126679), (67, 126610),

Gene: BlueOtter_11 Start: 6361, Stop: 6038, Start Num: 21

Candidate Starts for BlueOtter_11:

(Start: 21 @6361 has 121 MA's), (Start: 22 @6355 has 34 MA's), (25, 6346), (40, 6274), (44, 6241), (49, 6181), (53, 6151), (55, 6142), (68, 6076), (69, 6064),

Gene: BlueOtter_263 Start: 127448, Stop: 127125, Start Num: 21

Candidate Starts for BlueOtter_263:

(Start: 21 @127448 has 121 MA's), (Start: 22 @127442 has 34 MA's), (25, 127433), (40, 127361), (44, 127328), (49, 127268), (53, 127238), (55, 127229), (68, 127163), (69, 127151),

Gene: Bmoc_265 Start: 127855, Stop: 127547, Start Num: 21

Candidate Starts for Bmoc_265:

(Start: 15 @127891 has 2 MA's), (16, 127885), (18, 127879), (Start: 21 @127855 has 121 MA's), (37, 127783), (43, 127753), (45, 127708), (51, 127660), (53, 127654),

Gene: Bmoc_266 Start: 128418, Stop: 128119, Start Num: 21

Candidate Starts for Bmoc_266:

(Start: 21 @128418 has 121 MA's), (35, 128343), (36, 128337), (52, 128205), (55, 128193),

Gene: Bmoc_9 Start: 6033, Stop: 5725, Start Num: 21

Candidate Starts for Bmoc_9:

(Start: 15 @6069 has 2 MA's), (16, 6063), (18, 6057), (Start: 21 @6033 has 121 MA's), (37, 5961), (43, 5931), (45, 5886), (51, 5838), (53, 5832),

Gene: Bmoc_10 Start: 6596, Stop: 6297, Start Num: 21

Candidate Starts for Bmoc_10:

(Start: 21 @6596 has 121 MA's), (35, 6521), (36, 6515), (52, 6383), (55, 6371),

Gene: BoomerJR_14 Start: 7130, Stop: 6768, Start Num: 21

Candidate Starts for BoomerJR_14:

(Start: 21 @7130 has 121 MA's), (Start: 22 @7124 has 34 MA's), (34, 7031), (39, 7010), (49, 6914), (50, 6911), (59, 6857), (70, 6782),

Gene: BoomerJR_10 Start: 5615, Stop: 5304, Start Num: 21

Candidate Starts for BoomerJR_10:

(Start: 21 @5615 has 121 MA's), (Start: 22 @5609 has 34 MA's), (28, 5588), (38, 5537), (46, 5459), (52, 5411), (56, 5396),

Gene: BoomerJR_269 Start: 125918, Stop: 125556, Start Num: 21

Candidate Starts for BoomerJR_269:

(Start: 21 @125918 has 121 MA's), (Start: 22 @125912 has 34 MA's), (34, 125819), (39, 125798), (49, 125702), (50, 125699), (59, 125645), (70, 125570),

Gene: BoomerJR_265 Start: 124403, Stop: 124092, Start Num: 21

Candidate Starts for BoomerJR_265:

(Start: 21 @124403 has 121 MA's), (Start: 22 @124397 has 34 MA's), (28, 124376), (38, 124325), (46, 124247), (52, 124199), (56, 124184),

Gene: Bordeaux_13 Start: 7141, Stop: 6788, Start Num: 22

Candidate Starts for Bordeaux_13:

(Start: 21 @7147 has 121 MA's), (Start: 22 @7141 has 34 MA's), (25, 7126), (34, 7051), (39, 7030), (50, 6931), (70, 6802),

Gene: Bordeaux_270 Start: 125879, Stop: 125526, Start Num: 22

Candidate Starts for Bordeaux_270:

(Start: 21 @125885 has 121 MA's), (Start: 22 @125879 has 34 MA's), (25, 125864), (34, 125789), (39, 125768), (50, 125669), (70, 125540),

Gene: Braelyn_10 Start: 6055, Stop: 5756, Start Num: 21

Candidate Starts for Braelyn_10:

(Start: 21 @6055 has 121 MA's), (36, 5974), (47, 5884), (48, 5881), (55, 5830),

Gene: Braelyn_255 Start: 126465, Stop: 126166, Start Num: 21

Candidate Starts for Braelyn_255:

(Start: 21 @126465 has 121 MA's), (36, 126384), (47, 126294), (48, 126291), (55, 126240),

Gene: CeilingFan_286 Start: 127359, Stop: 127006, Start Num: 22

Candidate Starts for CeilingFan_286:

(Start: 21 @127365 has 121 MA's), (Start: 22 @127359 has 34 MA's), (25, 127344), (34, 127269), (39, 127248), (50, 127149), (70, 127020),

Gene: CeilingFan_12 Start: 6752, Stop: 6399, Start Num: 22

Candidate Starts for CeilingFan_12:

(Start: 21 @6758 has 121 MA's), (Start: 22 @6752 has 34 MA's), (25, 6737), (34, 6662), (39, 6641), (50, 6542), (70, 6413),

Gene: Circinus_210 Start: 109217, Stop: 109507, Start Num: 20

Candidate Starts for Circinus_210:

(11, 109172), (19, 109214), (Start: 20 @109217 has 4 MA's), (28, 109247), (30, 109259), (42, 109322), (50, 109403), (55, 109439),

Gene: Cross_9 Start: 5793, Stop: 5488, Start Num: 21

Candidate Starts for Cross_9:

(8, 5934), (10, 5874), (Start: 15 @5829 has 2 MA's), (Start: 21 @5793 has 121 MA's), (37, 5721), (43, 5691), (45, 5646), (53, 5592), (67, 5523),

Gene: Cross_11 Start: 6361, Stop: 6038, Start Num: 21

Candidate Starts for Cross_11:

(Start: 21 @6361 has 121 MA's), (Start: 22 @6355 has 34 MA's), (25, 6346), (40, 6274), (44, 6241), (49, 6181), (53, 6151), (55, 6142), (68, 6076), (69, 6064),

Gene: Cross_259 Start: 128093, Stop: 127770, Start Num: 21

Candidate Starts for Cross_259:

(Start: 21 @128093 has 121 MA's), (Start: 22 @128087 has 34 MA's), (25, 128078), (40, 128006), (44, 127973), (49, 127913), (53, 127883), (55, 127874), (68, 127808), (69, 127796),

Gene: Cross_257 Start: 127525, Stop: 127220, Start Num: 21

Candidate Starts for Cross_257:

(8, 127666), (10, 127606), (Start: 15 @127561 has 2 MA's), (Start: 21 @127525 has 121 MA's), (37, 127453), (43, 127423), (45, 127378), (53, 127324), (67, 127255),

Gene: Cursive_261 Start: 126620, Stop: 126315, Start Num: 21

Candidate Starts for Cursive_261:

(8, 126761), (10, 126701), (Start: 15 @126656 has 2 MA's), (Start: 21 @126620 has 121 MA's), (37, 126548), (43, 126518), (45, 126473), (53, 126419), (67, 126350),

Gene: Cursive_7 Start: 4611, Stop: 4306, Start Num: 21

Candidate Starts for Cursive_7:

(8, 4752), (10, 4692), (Start: 15 @4647 has 2 MA's), (Start: 21 @4611 has 121 MA's), (37, 4539), (43, 4509), (45, 4464), (53, 4410), (67, 4341),

Gene: Cursive_9 Start: 5179, Stop: 4856, Start Num: 21

Candidate Starts for Cursive_9:

(Start: 21 @5179 has 121 MA's), (Start: 22 @5173 has 34 MA's), (25, 5164), (40, 5092), (44, 5059), (49, 4999), (53, 4969), (55, 4960), (68, 4894), (69, 4882),

Gene: Cursive_263 Start: 127188, Stop: 126865, Start Num: 21

Candidate Starts for Cursive_263:

(Start: 21 @127188 has 121 MA's), (Start: 22 @127182 has 34 MA's), (25, 127173), (40, 127101), (44, 127068), (49, 127008), (53, 126978), (55, 126969), (68, 126903), (69, 126891),

Gene: Daubenski_12 Start: 6584, Stop: 6276, Start Num: 21

Candidate Starts for Daubenski_12:

(Start: 21 @6584 has 121 MA's), (36, 6503), (46, 6416), (56, 6353), (64, 6314),

Gene: Daubenski_256 Start: 128960, Stop: 128652, Start Num: 21

Candidate Starts for Daubenski_256:

(Start: 21 @128960 has 121 MA's), (36, 128879), (46, 128792), (56, 128729), (64, 128690),

Gene: EGole_9 Start: 6213, Stop: 5908, Start Num: 21

Candidate Starts for EGole_9:

(8, 6354), (10, 6294), (Start: 15 @6249 has 2 MA's), (Start: 21 @6213 has 121 MA's), (37, 6141), (43, 6111), (45, 6066), (53, 6012), (67, 5943),

Gene: EGole_265 Start: 131094, Stop: 130771, Start Num: 21

Candidate Starts for EGole_265:

(Start: 21 @131094 has 121 MA's), (Start: 22 @131088 has 34 MA's), (25, 131079), (40, 131007), (44, 130974), (49, 130914), (53, 130884), (55, 130875), (68, 130809), (69, 130797),

Gene: EGole_263 Start: 130525, Stop: 130220, Start Num: 21

Candidate Starts for EGole_263:

(8, 130666), (10, 130606), (Start: 15 @130561 has 2 MA's), (Start: 21 @130525 has 121 MA's), (37, 130453), (43, 130423), (45, 130378), (53, 130324), (67, 130255),

Gene: EGole_11 Start: 6782, Stop: 6459, Start Num: 21

Candidate Starts for EGole_11:

(Start: 21 @6782 has 121 MA's), (Start: 22 @6776 has 34 MA's), (25, 6767), (40, 6695), (44, 6662), (49, 6602), (53, 6572), (55, 6563), (68, 6497), (69, 6485),

Gene: Elmer_291 Start: 128639, Stop: 128286, Start Num: 22

Candidate Starts for Elmer_291:

(Start: 21 @128645 has 121 MA's), (Start: 22 @128639 has 34 MA's), (34, 128549), (39, 128528), (46, 128453), (49, 128432), (52, 128405), (70, 128300),

Gene: Elmer_15 Start: 6271, Stop: 5918, Start Num: 22

Candidate Starts for Elmer_15:

(Start: 21 @6277 has 121 MA's), (Start: 22 @6271 has 34 MA's), (34, 6181), (39, 6160), (46, 6085), (49, 6064), (52, 6037), (70, 5932),

Gene: Enygma_279 Start: 128827, Stop: 128474, Start Num: 22

Candidate Starts for Enygma_279:

(Start: 21 @128833 has 121 MA's), (Start: 22 @128827 has 34 MA's), (25, 128812), (34, 128737), (39, 128716), (50, 128617), (51, 128596), (70, 128488),

Gene: Enygma_11 Start: 6403, Stop: 6050, Start Num: 22

Candidate Starts for Enygma_11:

(Start: 21 @6409 has 121 MA's), (Start: 22 @6403 has 34 MA's), (25, 6388), (34, 6313), (39, 6292), (50, 6193), (51, 6172), (70, 6064),

Gene: Evy_12 Start: 6669, Stop: 6367, Start Num: 21

Candidate Starts for Evy_12:

(1, 6999), (2, 6972), (3, 6906), (4, 6882), (5, 6876), (7, 6822), (Start: 21 @6669 has 121 MA's), (36, 6588), (47, 6498), (56, 6441), (57, 6435), (63, 6405),

Gene: Evy_10 Start: 6128, Stop: 5823, Start Num: 21

Candidate Starts for Evy_10:

(Start: 21 @6128 has 121 MA's), (37, 6056), (43, 6026), (45, 5981), (50, 5954), (51, 5933), (53, 5927), (67, 5858),

Gene: Evy_250 Start: 128398, Stop: 128096, Start Num: 21

Candidate Starts for Evy_250:

(1, 128728), (2, 128701), (3, 128635), (4, 128611), (5, 128605), (7, 128551), (Start: 21 @128398 has 121 MA's), (36, 128317), (47, 128227), (56, 128170), (57, 128164), (63, 128134),

Gene: Evy_248 Start: 127857, Stop: 127552, Start Num: 21

Candidate Starts for Evy_248:

(Start: 21 @127857 has 121 MA's), (37, 127785), (43, 127755), (45, 127710), (50, 127683), (51, 127662), (53, 127656), (67, 127587),

Gene: Genie2_14 Start: 7130, Stop: 6768, Start Num: 21

Candidate Starts for Genie2_14:

(Start: 21 @7130 has 121 MA's), (Start: 22 @7124 has 34 MA's), (34, 7031), (39, 7010), (49, 6914), (50, 6911), (59, 6857), (70, 6782),

Gene: Genie2_10 Start: 5615, Stop: 5304, Start Num: 21

Candidate Starts for Genie2_10:

(Start: 21 @5615 has 121 MA's), (Start: 22 @5609 has 34 MA's), (28, 5588), (38, 5537), (46, 5459), (52, 5411), (56, 5396),

Gene: Genie2_269 Start: 126031, Stop: 125669, Start Num: 21

Candidate Starts for Genie2_269:

(Start: 21 @126031 has 121 MA's), (Start: 22 @126025 has 34 MA's), (34, 125932), (39, 125911), (49, 125815), (50, 125812), (59, 125758), (70, 125683),

Gene: Genie2_265 Start: 124516, Stop: 124205, Start Num: 21

Candidate Starts for Genie2_265:

(Start: 21 @124516 has 121 MA's), (Start: 22 @124510 has 34 MA's), (28, 124489), (38, 124438), (46, 124360), (52, 124312), (56, 124297),

Gene: Gibbi_283 Start: 126852, Stop: 126499, Start Num: 22

Candidate Starts for Gibbi_283:

(Start: 21 @126858 has 121 MA's), (Start: 22 @126852 has 34 MA's), (25, 126837), (34, 126762), (39, 126741), (50, 126642), (70, 126513),

Gene: Gibbi_12 Start: 6752, Stop: 6399, Start Num: 22

Candidate Starts for Gibbi_12:

(Start: 21 @6758 has 121 MA's), (Start: 22 @6752 has 34 MA's), (25, 6737), (34, 6662), (39, 6641), (50, 6542), (70, 6413),

Gene: HangryHippo_9 Start: 5793, Stop: 5488, Start Num: 21

Candidate Starts for HangryHippo_9:

(8, 5934), (10, 5874), (Start: 15 @5829 has 2 MA's), (Start: 21 @5793 has 121 MA's), (37, 5721), (43, 5691), (45, 5646), (53, 5592), (67, 5523),

Gene: HangryHippo_261 Start: 126880, Stop: 126575, Start Num: 21

Candidate Starts for HangryHippo_261:

(8, 127021), (10, 126961), (Start: 15 @126916 has 2 MA's), (Start: 21 @126880 has 121 MA's), (37, 126808), (43, 126778), (45, 126733), (53, 126679), (67, 126610),

Gene: HangryHippo_263 Start: 127448, Stop: 127125, Start Num: 21

Candidate Starts for HangryHippo_263:

(Start: 21 @127448 has 121 MA's), (Start: 22 @127442 has 34 MA's), (25, 127433), (40, 127361), (44, 127328), (49, 127268), (53, 127238), (55, 127229), (68, 127163), (69, 127151),

Gene: HangryHippo_11 Start: 6361, Stop: 6038, Start Num: 21

Candidate Starts for HangryHippo_11:

(Start: 21 @6361 has 121 MA's), (Start: 22 @6355 has 34 MA's), (25, 6346), (40, 6274), (44, 6241), (49, 6181), (53, 6151), (55, 6142), (68, 6076), (69, 6064),

Gene: IchabodCrane_12 Start: 6749, Stop: 6396, Start Num: 22

Candidate Starts for IchabodCrane_12:

(Start: 21 @6755 has 121 MA's), (Start: 22 @6749 has 34 MA's), (25, 6734), (34, 6659), (39, 6638), (50, 6539), (70, 6410),

Gene: IchabodCrane_265 Start: 125292, Stop: 124939, Start Num: 22

Candidate Starts for IchabodCrane_265:

(Start: 21 @125298 has 121 MA's), (Start: 22 @125292 has 34 MA's), (25, 125277), (34, 125202), (39, 125181), (50, 125082), (70, 124953),

Gene: Jay2Jay_13 Start: 6415, Stop: 6071, Start Num: 14

Candidate Starts for Jay2Jay_13:

(Start: 14 @6415 has 4 MA's), (Start: 21 @6373 has 121 MA's), (36, 6292), (47, 6202), (56, 6145), (57, 6139), (63, 6109),

Gene: Jay2Jay_266 Start: 127925, Stop: 127620, Start Num: 21

Candidate Starts for Jay2Jay_266:

(Start: 21 @127925 has 121 MA's), (37, 127853), (43, 127823), (45, 127778), (50, 127751), (51, 127730), (53, 127724), (67, 127655),

Gene: Jay2Jay_268 Start: 128508, Stop: 128164, Start Num: 14

Candidate Starts for Jay2Jay_268:

(Start: 14 @128508 has 4 MA's), (Start: 21 @128466 has 121 MA's), (36, 128385), (47, 128295), (56, 128238), (57, 128232), (63, 128202),

Gene: Jay2Jay_11 Start: 5832, Stop: 5527, Start Num: 21

Candidate Starts for Jay2Jay_11:

(Start: 21 @5832 has 121 MA's), (37, 5760), (43, 5730), (45, 5685), (50, 5658), (51, 5637), (53, 5631), (67, 5562),

Gene: JimJam_281 Start: 128682, Stop: 128323, Start Num: 21

Candidate Starts for JimJam_281:

(Start: 21 @128682 has 121 MA's), (Start: 22 @128676 has 34 MA's), (25, 128661), (34, 128586), (39, 128565), (50, 128466), (70, 128337),

Gene: JimJam_13 Start: 7146, Stop: 6787, Start Num: 21

Candidate Starts for JimJam_13:

(Start: 21 @7146 has 121 MA's), (Start: 22 @7140 has 34 MA's), (25, 7125), (34, 7050), (39, 7029), (50, 6930), (70, 6801),

Gene: Jollison_13 Start: 7147, Stop: 6788, Start Num: 21

Candidate Starts for Jollison_13:

(Start: 21 @7147 has 121 MA's), (Start: 22 @7141 has 34 MA's), (25, 7126), (34, 7051), (39, 7030), (50, 6931), (70, 6802),

Gene: Jollison_277 Start: 125822, Stop: 125463, Start Num: 21

Candidate Starts for Jollison_277:

(Start: 21 @125822 has 121 MA's), (Start: 22 @125816 has 34 MA's), (25, 125801), (34, 125726), (39, 125705), (50, 125606), (70, 125477),

Gene: Karimac_271 Start: 126462, Stop: 126109, Start Num: 22

Candidate Starts for Karimac_271:

(Start: 21 @126468 has 121 MA's), (Start: 22 @126462 has 34 MA's), (25, 126447), (34, 126372), (39, 126351), (50, 126252), (70, 126123),

Gene: Karimac_13 Start: 7143, Stop: 6790, Start Num: 22

Candidate Starts for Karimac_13:

(Start: 21 @7149 has 121 MA's), (Start: 22 @7143 has 34 MA's), (25, 7128), (34, 7053), (39, 7032), (50, 6933), (70, 6804),

Gene: KentuckyRacer_287 Start: 128204, Stop: 127851, Start Num: 22

Candidate Starts for KentuckyRacer_287:

(Start: 21 @128210 has 121 MA's), (Start: 22 @128204 has 34 MA's), (25, 128189), (34, 128114), (39, 128093), (50, 127994), (70, 127865),

Gene: KentuckyRacer_13 Start: 6753, Stop: 6400, Start Num: 22

Candidate Starts for KentuckyRacer_13:

(Start: 21 @6759 has 121 MA's), (Start: 22 @6753 has 34 MA's), (25, 6738), (34, 6663), (39, 6642), (50, 6543), (70, 6414),

Gene: Larnav_272 Start: 128366, Stop: 128043, Start Num: 21

Candidate Starts for Larnav_272:

(Start: 21 @128366 has 121 MA's), (Start: 22 @128360 has 34 MA's), (25, 128351), (40, 128279), (44, 128246), (49, 128186), (53, 128156), (55, 128147), (68, 128081), (69, 128069),

Gene: Larnav_270 Start: 127798, Stop: 127493, Start Num: 21

Candidate Starts for Larnav_270:

(8, 127939), (10, 127879), (Start: 15 @127834 has 2 MA's), (Start: 21 @127798 has 121 MA's), (37, 127726), (43, 127696), (45, 127651), (53, 127597), (67, 127528),

Gene: Larnav_13 Start: 6361, Stop: 6038, Start Num: 21

Candidate Starts for Larnav_13:

(Start: 21 @6361 has 121 MA's), (Start: 22 @6355 has 34 MA's), (25, 6346), (40, 6274), (44, 6241), (49, 6181), (53, 6151), (55, 6142), (68, 6076), (69, 6064),

Gene: Larnav_11 Start: 5793, Stop: 5488, Start Num: 21

Candidate Starts for Larnav_11:

(8, 5934), (10, 5874), (Start: 15 @5829 has 2 MA's), (Start: 21 @5793 has 121 MA's), (37, 5721), (43, 5691), (45, 5646), (53, 5592), (67, 5523),

Gene: Leo04_260 Start: 127910, Stop: 127605, Start Num: 21

Candidate Starts for Leo04_260:

(8, 128051), (10, 127991), (Start: 15 @127946 has 2 MA's), (Start: 21 @127910 has 121 MA's), (37, 127838), (43, 127808), (45, 127763), (53, 127709), (67, 127640),

Gene: Leo04_262 Start: 128472, Stop: 128155, Start Num: 22

Candidate Starts for Leo04_262:

(Start: 21 @128478 has 121 MA's), (Start: 22 @128472 has 34 MA's), (25, 128463), (40, 128391), (44, 128358), (49, 128298), (53, 128268), (55, 128259), (68, 128193), (69, 128181),

Gene: Leo04_11 Start: 6354, Stop: 6037, Start Num: 22

Candidate Starts for Leo04_11:

(Start: 21 @6360 has 121 MA's), (Start: 22 @6354 has 34 MA's), (25, 6345), (40, 6273), (44, 6240), (49, 6180), (53, 6150), (55, 6141), (68, 6075), (69, 6063),

Gene: Leo04_9 Start: 5792, Stop: 5487, Start Num: 21

Candidate Starts for Leo04_9:

(8, 5933), (10, 5873), (Start: 15 @5828 has 2 MA's), (Start: 21 @5792 has 121 MA's), (37, 5720), (43, 5690), (45, 5645), (53, 5591), (67, 5522),

Gene: Liandry_259 Start: 127564, Stop: 127265, Start Num: 21

Candidate Starts for Liandry_259:

(Start: 21 @127564 has 121 MA's), (36, 127483), (47, 127393), (48, 127390), (55, 127339),

Gene: Liandry_10 Start: 6043, Stop: 5744, Start Num: 21

Candidate Starts for Liandry_10:

(Start: 21 @6043 has 121 MA's), (36, 5962), (47, 5872), (48, 5869), (55, 5818),

Gene: LilMartin_263 Start: 128036, Stop: 127737, Start Num: 21

Candidate Starts for LilMartin_263:

(Start: 21 @128036 has 121 MA's), (36, 127955), (47, 127865), (48, 127862), (55, 127811),

Gene: LilMartin_11 Start: 6692, Stop: 6393, Start Num: 21

Candidate Starts for LilMartin_11:

(Start: 21 @6692 has 121 MA's), (36, 6611), (47, 6521), (48, 6518), (55, 6467),

Gene: LilMartin_10 Start: 6160, Stop: 5855, Start Num: 21

Candidate Starts for LilMartin_10:

(7, 6298), (10, 6226), (Start: 15 @6196 has 2 MA's), (Start: 21 @6160 has 121 MA's), (37, 6088), (41, 6070), (43, 6058), (45, 6013), (53, 5959), (62, 5923),

Gene: LilMartin_262 Start: 127504, Stop: 127199, Start Num: 21

Candidate Starts for LilMartin_262:

(7, 127642), (10, 127570), (Start: 15 @127540 has 2 MA's), (Start: 21 @127504 has 121 MA's), (37, 127432), (41, 127414), (43, 127402), (45, 127357), (53, 127303), (62, 127267),

Gene: LukeCage_12 Start: 6689, Stop: 6330, Start Num: 21

Candidate Starts for LukeCage_12:

(Start: 21 @6689 has 121 MA's), (Start: 22 @6683 has 34 MA's), (25, 6668), (34, 6593), (39, 6572), (46, 6497), (50, 6473), (70, 6344),

Gene: LukeCage_275 Start: 127593, Stop: 127234, Start Num: 21

Candidate Starts for LukeCage_275:

(Start: 21 @127593 has 121 MA's), (Start: 22 @127587 has 34 MA's), (25, 127572), (34, 127497), (39, 127476), (46, 127401), (50, 127377), (70, 127248),

Gene: Lululemon_258 Start: 126065, Stop: 125760, Start Num: 21

Candidate Starts for Lululemon_258:

(8, 126206), (10, 126146), (Start: 15 @126101 has 2 MA's), (Start: 21 @126065 has 121 MA's), (37, 125993), (43, 125963), (45, 125918), (53, 125864), (67, 125795),

Gene: Lululemon_260 Start: 126633, Stop: 126310, Start Num: 21

Candidate Starts for Lululemon_260:

(Start: 21 @126633 has 121 MA's), (Start: 22 @126627 has 34 MA's), (25, 126618), (40, 126546), (44, 126513), (49, 126453), (53, 126423), (55, 126414), (68, 126348), (69, 126336),

Gene: Lululemon_8 Start: 5173, Stop: 4868, Start Num: 21

Candidate Starts for Lululemon_8:

(8, 5314), (10, 5254), (Start: 15 @5209 has 2 MA's), (Start: 21 @5173 has 121 MA's), (37, 5101), (43, 5071), (45, 5026), (53, 4972), (67, 4903),

Gene: Lululemon_10 Start: 5741, Stop: 5418, Start Num: 21

Candidate Starts for Lululemon_10:

(Start: 21 @5741 has 121 MA's), (Start: 22 @5735 has 34 MA's), (25, 5726), (40, 5654), (44, 5621), (49, 5561), (53, 5531), (55, 5522), (68, 5456), (69, 5444),

Gene: Mildred21_274 Start: 127436, Stop: 127137, Start Num: 21

Candidate Starts for Mildred21_274:

(Start: 21 @127436 has 121 MA's), (36, 127355), (47, 127265), (48, 127262), (55, 127211), (56, 127208),

Gene: Mildred21_273 Start: 126906, Stop: 126598, Start Num: 21

Candidate Starts for Mildred21_273:

(Start: 21 @126906 has 121 MA's), (27, 126879), (37, 126834), (43, 126804), (45, 126759), (50, 126732),

Gene: Mildred21_11 Start: 6278, Stop: 5979, Start Num: 21

Candidate Starts for Mildred21_11:

(Start: 21 @6278 has 121 MA's), (36, 6197), (47, 6107), (48, 6104), (55, 6053), (56, 6050),

Gene: Mildred21_10 Start: 5748, Stop: 5440, Start Num: 21

Candidate Starts for Mildred21_10:

(Start: 21 @5748 has 121 MA's), (27, 5721), (37, 5676), (43, 5646), (45, 5601), (50, 5574),

Gene: MindFlayer_264 Start: 124811, Stop: 124458, Start Num: 22

Candidate Starts for MindFlayer_264:

(Start: 21 @124817 has 121 MA's), (Start: 22 @124811 has 34 MA's), (25, 124796), (34, 124721), (39, 124700), (50, 124601), (70, 124472),

Gene: MindFlayer_12 Start: 6751, Stop: 6398, Start Num: 22

Candidate Starts for MindFlayer_12:

(Start: 21 @6757 has 121 MA's), (Start: 22 @6751 has 34 MA's), (25, 6736), (34, 6661), (39, 6640), (50, 6541), (70, 6412),

Gene: Mugiwara_283 Start: 127795, Stop: 127442, Start Num: 22

Candidate Starts for Mugiwara_283:

(Start: 21 @127801 has 121 MA's), (Start: 22 @127795 has 34 MA's), (25, 127780), (34, 127705), (39, 127684), (50, 127585), (66, 127489), (70, 127456),

Gene: Mugiwara_11 Start: 6410, Stop: 6057, Start Num: 22

Candidate Starts for Mugiwara_11:

(Start: 21 @6416 has 121 MA's), (Start: 22 @6410 has 34 MA's), (25, 6395), (34, 6320), (39, 6299), (50, 6200), (66, 6104), (70, 6071),

Gene: MulchMansion_10 Start: 6160, Stop: 5855, Start Num: 21

Candidate Starts for MulchMansion_10:

(7, 6298), (10, 6226), (Start: 15 @6196 has 2 MA's), (Start: 21 @6160 has 121 MA's), (37, 6088), (41, 6070), (43, 6058), (45, 6013), (53, 5959), (62, 5923),

Gene: MulchMansion_266 Start: 129138, Stop: 128833, Start Num: 21

Candidate Starts for MulchMansion_266:

(7, 129276), (10, 129204), (Start: 15 @129174 has 2 MA's), (Start: 21 @129138 has 121 MA's), (37, 129066), (41, 129048), (43, 129036), (45, 128991), (53, 128937), (62, 128901),

Gene: MulchMansion_267 Start: 129670, Stop: 129371, Start Num: 21

Candidate Starts for MulchMansion_267:

(Start: 21 @129670 has 121 MA's), (36, 129589), (47, 129499), (48, 129496), (55, 129445),

Gene: MulchMansion_11 Start: 6692, Stop: 6393, Start Num: 21

Candidate Starts for MulchMansion_11:

(Start: 21 @6692 has 121 MA's), (36, 6611), (47, 6521), (48, 6518), (55, 6467),

Gene: Muntaha_225 Start: 109742, Stop: 110029, Start Num: 20

Candidate Starts for Muntaha_225:

(Start: 20 @109742 has 4 MA's), (Start: 22 @109751 has 34 MA's), (23, 109754), (28, 109772), (33, 109808), (42, 109844), (65, 110018),

Gene: Navo_251 Start: 125466, Stop: 125167, Start Num: 21

Candidate Starts for Navo_251:

(Start: 21 @125466 has 121 MA's), (36, 125385), (47, 125295), (48, 125292), (55, 125241),

Gene: Navo_9 Start: 5841, Stop: 5542, Start Num: 21

Candidate Starts for Navo_9:

(Start: 21 @5841 has 121 MA's), (36, 5760), (47, 5670), (48, 5667), (55, 5616),

Gene: NootNoot_255 Start: 126352, Stop: 126053, Start Num: 21

Candidate Starts for NootNoot_255:

(Start: 21 @126352 has 121 MA's), (36, 126271), (47, 126181), (48, 126178), (55, 126127),

Gene: NootNoot_10 Start: 6053, Stop: 5754, Start Num: 21

Candidate Starts for NootNoot_10:

(Start: 21 @6053 has 121 MA's), (36, 5972), (47, 5882), (48, 5879), (55, 5828),

Gene: PacManQ_261 Start: 126633, Stop: 126310, Start Num: 21

Candidate Starts for PacManQ_261:

(Start: 21 @126633 has 121 MA's), (Start: 22 @126627 has 34 MA's), (25, 126618), (40, 126546), (44, 126513), (49, 126453), (53, 126423), (55, 126414), (68, 126348), (69, 126336),

Gene: PacManQ_259 Start: 126065, Stop: 125760, Start Num: 21

Candidate Starts for PacManQ_259:

(8, 126206), (10, 126146), (Start: 15 @126101 has 2 MA's), (Start: 21 @126065 has 121 MA's), (37, 125993), (43, 125963), (45, 125918), (53, 125864), (67, 125795),

Gene: PacManQ_10 Start: 5741, Stop: 5418, Start Num: 21

Candidate Starts for PacManQ_10:

(Start: 21 @5741 has 121 MA's), (Start: 22 @5735 has 34 MA's), (25, 5726), (40, 5654), (44, 5621), (49, 5561), (53, 5531), (55, 5522), (68, 5456), (69, 5444),

Gene: PacManQ_8 Start: 5173, Stop: 4868, Start Num: 21

Candidate Starts for PacManQ_8:

(8, 5314), (10, 5254), (Start: 15 @5209 has 2 MA's), (Start: 21 @5173 has 121 MA's), (37, 5101), (43, 5071), (45, 5026), (53, 4972), (67, 4903),

Gene: Paradiddles_10 Start: 6043, Stop: 5744, Start Num: 21

Candidate Starts for Paradiddles_10:

(Start: 21 @6043 has 121 MA's), (36, 5962), (47, 5872), (48, 5869), (55, 5818),

Gene: Paradiddles_251 Start: 128751, Stop: 128452, Start Num: 21

Candidate Starts for Paradiddles_251:

(Start: 21 @128751 has 121 MA's), (36, 128670), (47, 128580), (48, 128577), (55, 128526),

Gene: Peebs_256 Start: 127803, Stop: 127462, Start Num: 15

Candidate Starts for Peebs_256:

(8, 127908), (10, 127848), (Start: 15 @127803 has 2 MA's), (Start: 21 @127767 has 121 MA's), (37, 127695), (43, 127665), (45, 127620), (53, 127566), (67, 127497),

Gene: Peebs_258 Start: 128335, Stop: 128012, Start Num: 21

Candidate Starts for Peebs_258:

(Start: 21 @128335 has 121 MA's), (Start: 22 @128329 has 34 MA's), (25, 128320), (40, 128248), (44, 128215), (49, 128155), (53, 128125), (55, 128116), (68, 128050), (69, 128038),

Gene: Peebs_9 Start: 5828, Stop: 5487, Start Num: 15

Candidate Starts for Peebs_9:

(8, 5933), (10, 5873), (Start: 15 @5828 has 2 MA's), (Start: 21 @5792 has 121 MA's), (37, 5720), (43, 5690), (45, 5645), (53, 5591), (67, 5522),

Gene: Peebs_11 Start: 6360, Stop: 6037, Start Num: 21

Candidate Starts for Peebs_11:

(Start: 21 @6360 has 121 MA's), (Start: 22 @6354 has 34 MA's), (25, 6345), (40, 6273), (44, 6240), (49, 6180), (53, 6150), (55, 6141), (68, 6075), (69, 6063),

Gene: Pepperwood_12 Start: 6515, Stop: 6192, Start Num: 21

Candidate Starts for Pepperwood_12:

(Start: 21 @6515 has 121 MA's), (Start: 22 @6509 has 34 MA's), (25, 6500), (40, 6428), (44, 6395), (49, 6335), (53, 6305), (55, 6296), (68, 6230), (69, 6218),

Gene: Pepperwood_10 Start: 5947, Stop: 5642, Start Num: 21

Candidate Starts for Pepperwood_10:

(8, 6088), (10, 6028), (Start: 15 @5983 has 2 MA's), (Start: 21 @5947 has 121 MA's), (37, 5875), (43, 5845), (45, 5800), (53, 5746), (67, 5677),

Gene: Pepperwood_259 Start: 127732, Stop: 127427, Start Num: 21

Candidate Starts for Pepperwood_259:

(8, 127873), (10, 127813), (Start: 15 @127768 has 2 MA's), (Start: 21 @127732 has 121 MA's), (37, 127660), (43, 127630), (45, 127585), (53, 127531), (67, 127462),

Gene: Pepperwood_261 Start: 128300, Stop: 127977, Start Num: 21

Candidate Starts for Pepperwood_261:

(Start: 21 @128300 has 121 MA's), (Start: 22 @128294 has 34 MA's), (25, 128285), (40, 128213), (44, 128180), (49, 128120), (53, 128090), (55, 128081), (68, 128015), (69, 128003),

Gene: Persimmon_260 Start: 126652, Stop: 126353, Start Num: 21

Candidate Starts for Persimmon_260:

(Start: 21 @126652 has 121 MA's), (36, 126571), (47, 126481), (48, 126478), (55, 126427),

Gene: Persimmon_9 Start: 5841, Stop: 5542, Start Num: 21

Candidate Starts for Persimmon_9:

(Start: 21 @5841 has 121 MA's), (36, 5760), (47, 5670), (48, 5667), (55, 5616),

Gene: PinkiePie_10 Start: 6043, Stop: 5744, Start Num: 21

Candidate Starts for PinkiePie_10:

(Start: 21 @6043 has 121 MA's), (36, 5962), (47, 5872), (48, 5869), (55, 5818),

Gene: PinkiePie_260 Start: 127564, Stop: 127265, Start Num: 21

Candidate Starts for PinkiePie_260:

(Start: 21 @127564 has 121 MA's), (36, 127483), (47, 127393), (48, 127390), (55, 127339),

Gene: PumpkinSpice_277 Start: 127033, Stop: 126680, Start Num: 22

Candidate Starts for PumpkinSpice_277:

(Start: 21 @127039 has 121 MA's), (Start: 22 @127033 has 34 MA's), (25, 127018), (34, 126943), (39, 126922), (50, 126823), (70, 126694),

Gene: PumpkinSpice_13 Start: 7141, Stop: 6788, Start Num: 22

Candidate Starts for PumpkinSpice_13:

(Start: 21 @7147 has 121 MA's), (Start: 22 @7141 has 34 MA's), (25, 7126), (34, 7051), (39, 7030), (50, 6931), (70, 6802),

Gene: Quaran19_13 Start: 7141, Stop: 6788, Start Num: 22

Candidate Starts for Quaran19_13:

(Start: 21 @7147 has 121 MA's), (Start: 22 @7141 has 34 MA's), (25, 7126), (34, 7051), (39, 7030), (50, 6931), (70, 6802),

Gene: Quaran19_274 Start: 126323, Stop: 125970, Start Num: 22

Candidate Starts for Quaran19_274:

(Start: 21 @126329 has 121 MA's), (Start: 22 @126323 has 34 MA's), (25, 126308), (34, 126233), (39, 126212), (50, 126113), (70, 125984),

Gene: SaltySpittoon_13 Start: 7141, Stop: 6788, Start Num: 22

Candidate Starts for SaltySpittoon_13:

(Start: 21 @7147 has 121 MA's), (Start: 22 @7141 has 34 MA's), (25, 7126), (34, 7051), (39, 7030), (50, 6931), (70, 6802),

Gene: SaltySpittoon_273 Start: 125411, Stop: 125052, Start Num: 21

Candidate Starts for SaltySpittoon_273:

(Start: 21 @125411 has 121 MA's), (Start: 22 @125405 has 34 MA's), (25, 125390), (34, 125315), (39, 125294), (50, 125195), (70, 125066),

Gene: Samisti12_261 Start: 129404, Stop: 129081, Start Num: 21

Candidate Starts for Samisti12_261:

(Start: 21 @129404 has 121 MA's), (Start: 22 @129398 has 34 MA's), (25, 129389), (40, 129317), (44, 129284), (49, 129224), (53, 129194), (55, 129185), (68, 129119), (69, 129107),

Gene: Samisti12_10 Start: 6360, Stop: 6037, Start Num: 21

Candidate Starts for Samisti12_10:

(Start: 21 @6360 has 121 MA's), (Start: 22 @6354 has 34 MA's), (25, 6345), (40, 6273), (44, 6240), (49, 6180), (53, 6150), (55, 6141), (68, 6075), (69, 6063),

Gene: Sollertia_14 Start: 7124, Stop: 6768, Start Num: 22

Candidate Starts for Sollertia_14:

(Start: 21 @7130 has 121 MA's), (Start: 22 @7124 has 34 MA's), (34, 7031), (39, 7010), (49, 6914), (50, 6911), (59, 6857), (70, 6782),

Gene: Sollertia_10 Start: 5615, Stop: 5304, Start Num: 21

Candidate Starts for Sollertia_10:

(Start: 21 @5615 has 121 MA's), (Start: 22 @5609 has 34 MA's), (28, 5588), (38, 5537), (46, 5459), (52, 5411), (56, 5396),

Gene: Sollertia_266 Start: 124505, Stop: 124194, Start Num: 21

Candidate Starts for Sollertia_266:

(Start: 21 @124505 has 121 MA's), (Start: 22 @124499 has 34 MA's), (28, 124478), (38, 124427), (46, 124349), (52, 124301), (56, 124286),

Gene: Sollertia_270 Start: 126014, Stop: 125658, Start Num: 22

Candidate Starts for Sollertia_270:

(Start: 21 @126020 has 121 MA's), (Start: 22 @126014 has 34 MA's), (34, 125921), (39, 125900), (49, 125804), (50, 125801), (59, 125747), (70, 125672),

Gene: Spelly_13 Start: 7141, Stop: 6788, Start Num: 22

Candidate Starts for Spelly_13:

(Start: 21 @7147 has 121 MA's), (Start: 22 @7141 has 34 MA's), (25, 7126), (34, 7051), (39, 7030), (50, 6931), (70, 6802),

Gene: Spelly_279 Start: 125945, Stop: 125592, Start Num: 22

Candidate Starts for Spelly_279:

(Start: 21 @125951 has 121 MA's), (Start: 22 @125945 has 34 MA's), (25, 125930), (34, 125855), (39, 125834), (50, 125735), (70, 125606),

Gene: Spilled_12 Start: 6757, Stop: 6398, Start Num: 21

Candidate Starts for Spilled_12:

(Start: 21 @6757 has 121 MA's), (Start: 22 @6751 has 34 MA's), (25, 6736), (34, 6661), (39, 6640), (50, 6541), (70, 6412),

Gene: Spilled_280 Start: 127226, Stop: 126867, Start Num: 21

Candidate Starts for Spilled_280:

(Start: 21 @127226 has 121 MA's), (Start: 22 @127220 has 34 MA's), (25, 127205), (34, 127130), (39, 127109), (50, 127010), (70, 126881),

Gene: Squillium_10 Start: 6043, Stop: 5744, Start Num: 21

Candidate Starts for Squillium_10:

(Start: 21 @6043 has 121 MA's), (36, 5962), (47, 5872), (48, 5869), (55, 5818),

Gene: Squillium_262 Start: 127567, Stop: 127268, Start Num: 21

Candidate Starts for Squillium_262:

(Start: 21 @127567 has 121 MA's), (36, 127486), (47, 127396), (48, 127393), (55, 127342),

Gene: Stanimal_10 Start: 5615, Stop: 5304, Start Num: 21

Candidate Starts for Stanimal_10:

(Start: 21 @5615 has 121 MA's), (Start: 22 @5609 has 34 MA's), (28, 5588), (38, 5537), (46, 5459), (52, 5411), (56, 5396),

Gene: Stanimal_14 Start: 7130, Stop: 6768, Start Num: 21

Candidate Starts for Stanimal_14:

(Start: 21 @7130 has 121 MA's), (Start: 22 @7124 has 34 MA's), (34, 7031), (39, 7010), (49, 6914), (50, 6911), (59, 6857), (70, 6782),

Gene: Stanimal_269 Start: 126404, Stop: 126042, Start Num: 21
Candidate Starts for Stanimal_269:
(Start: 21 @126404 has 121 MA's), (Start: 22 @126398 has 34 MA's), (34, 126305), (39, 126284), (49, 126188), (50, 126185), (59, 126131), (70, 126056),

Gene: Stanimal_265 Start: 124889, Stop: 124578, Start Num: 21
Candidate Starts for Stanimal_265:
(Start: 21 @124889 has 121 MA's), (Start: 22 @124883 has 34 MA's), (28, 124862), (38, 124811), (46, 124733), (52, 124685), (56, 124670),

Gene: StarPlatinum_282 Start: 128529, Stop: 128176, Start Num: 22
Candidate Starts for StarPlatinum_282:
(Start: 22 @128529 has 34 MA's), (24, 128523), (25, 128514), (34, 128439), (39, 128418), (50, 128319), (66, 128223), (70, 128190),

Gene: StarPlatinum_12 Start: 6842, Stop: 6489, Start Num: 22
Candidate Starts for StarPlatinum_12:
(Start: 22 @6842 has 34 MA's), (24, 6836), (25, 6827), (34, 6752), (39, 6731), (50, 6632), (66, 6536), (70, 6503),

Gene: Starbow_270 Start: 125995, Stop: 125636, Start Num: 21
Candidate Starts for Starbow_270:
(Start: 21 @125995 has 121 MA's), (Start: 22 @125989 has 34 MA's), (25, 125974), (34, 125899), (39, 125878), (50, 125779), (70, 125650),

Gene: Starbow_13 Start: 7147, Stop: 6788, Start Num: 21
Candidate Starts for Starbow_13:
(Start: 21 @7147 has 121 MA's), (Start: 22 @7141 has 34 MA's), (25, 7126), (34, 7051), (39, 7030), (50, 6931), (70, 6802),

Gene: Sushi23_10 Start: 5793, Stop: 5488, Start Num: 21
Candidate Starts for Sushi23_10:
(8, 5934), (10, 5874), (Start: 15 @5829 has 2 MA's), (Start: 21 @5793 has 121 MA's), (37, 5721), (43, 5691), (45, 5646), (53, 5592), (67, 5523),

Gene: Sushi23_12 Start: 6361, Stop: 6038, Start Num: 21
Candidate Starts for Sushi23_12:
(Start: 21 @6361 has 121 MA's), (Start: 22 @6355 has 34 MA's), (25, 6346), (40, 6274), (44, 6241), (49, 6181), (53, 6151), (55, 6142), (68, 6076), (69, 6064),

Gene: Sushi23_262 Start: 129204, Stop: 128881, Start Num: 21
Candidate Starts for Sushi23_262:
(Start: 21 @129204 has 121 MA's), (Start: 22 @129198 has 34 MA's), (25, 129189), (40, 129117), (44, 129084), (49, 129024), (53, 128994), (55, 128985), (68, 128919), (69, 128907),

Gene: Targaryen_261 Start: 130341, Stop: 130033, Start Num: 21
Candidate Starts for Targaryen_261:
(1, 130671), (2, 130644), (3, 130578), (4, 130554), (5, 130548), (7, 130494), (Start: 21 @130341 has 121 MA's), (Start: 26 @130317 has 2 MA's), (36, 130260), (46, 130173), (56, 130110), (64, 130071),

Gene: Targaryen_260 Start: 129804, Stop: 129499, Start Num: 21
Candidate Starts for Targaryen_260:

(Start: 21 @129804 has 121 MA's), (37, 129732), (43, 129702), (45, 129657), (50, 129630), (51, 129609), (53, 129603), (67, 129534),

Gene: Targaryen_9 Start: 6128, Stop: 5823, Start Num: 21

Candidate Starts for Targaryen_9:

(Start: 21 @6128 has 121 MA's), (37, 6056), (43, 6026), (45, 5981), (50, 5954), (51, 5933), (53, 5927), (67, 5858),

Gene: Targaryen_10 Start: 6665, Stop: 6357, Start Num: 21

Candidate Starts for Targaryen_10:

(1, 6995), (2, 6968), (3, 6902), (4, 6878), (5, 6872), (7, 6818), (Start: 21 @6665 has 121 MA's), (Start: 26 @6641 has 2 MA's), (36, 6584), (46, 6497), (56, 6434), (64, 6395),

Gene: Teutsch_9 Start: 5794, Stop: 5489, Start Num: 21

Candidate Starts for Teutsch_9:

(8, 5935), (10, 5875), (Start: 15 @5830 has 2 MA's), (Start: 21 @5794 has 121 MA's), (37, 5722), (43, 5692), (45, 5647), (53, 5593), (67, 5524),

Gene: Teutsch_11 Start: 6362, Stop: 6039, Start Num: 21

Candidate Starts for Teutsch_11:

(Start: 21 @6362 has 121 MA's), (Start: 22 @6356 has 34 MA's), (25, 6347), (40, 6275), (44, 6242), (49, 6182), (53, 6152), (55, 6143), (68, 6077), (69, 6065),

Gene: Teutsch_258 Start: 128571, Stop: 128248, Start Num: 21

Candidate Starts for Teutsch_258:

(Start: 21 @128571 has 121 MA's), (Start: 22 @128565 has 34 MA's), (25, 128556), (40, 128484), (44, 128451), (49, 128391), (53, 128361), (55, 128352), (68, 128286), (69, 128274),

Gene: Teutsch_256 Start: 128003, Stop: 127698, Start Num: 21

Candidate Starts for Teutsch_256:

(8, 128144), (10, 128084), (Start: 15 @128039 has 2 MA's), (Start: 21 @128003 has 121 MA's), (37, 127931), (43, 127901), (45, 127856), (53, 127802), (67, 127733),

Gene: TomSawyer_278 Start: 128513, Stop: 128160, Start Num: 22

Candidate Starts for TomSawyer_278:

(Start: 21 @128519 has 121 MA's), (Start: 22 @128513 has 34 MA's), (25, 128498), (34, 128423), (39, 128402), (50, 128303), (70, 128174),

Gene: TomSawyer_13 Start: 6734, Stop: 6381, Start Num: 22

Candidate Starts for TomSawyer_13:

(Start: 21 @6740 has 121 MA's), (Start: 22 @6734 has 34 MA's), (25, 6719), (34, 6644), (39, 6623), (50, 6524), (70, 6395),

Gene: Tomas_18 Start: 8698, Stop: 8333, Start Num: 26

Candidate Starts for Tomas_18:

(9, 8866), (17, 8755), (Start: 26 @8698 has 2 MA's), (29, 8689), (31, 8650), (32, 8641), (44, 8569), (52, 8482), (54, 8473),

Gene: Tomas_15 Start: 7771, Stop: 7403, Start Num: 13

Candidate Starts for Tomas_15:

(Start: 13 @7771 has 2 MA's), (Start: 22 @7720 has 34 MA's), (39, 7633), (50, 7534), (52, 7510), (58, 7486), (61, 7471),

Gene: Tomas_274 Start: 130405, Stop: 130040, Start Num: 26

Candidate Starts for Tomas_274:

(9, 130573), (17, 130462), (Start: 26 @130405 has 2 MA's), (29, 130396), (31, 130357), (32, 130348), (44, 130276), (52, 130189), (54, 130180),

Gene: Tomas_271 Start: 129478, Stop: 129110, Start Num: 13

Candidate Starts for Tomas_271:

(Start: 13 @129478 has 2 MA's), (Start: 22 @129427 has 34 MA's), (39, 129340), (50, 129241), (52, 129217), (58, 129193), (61, 129178),

Gene: Tribute_11 Start: 6361, Stop: 6038, Start Num: 21

Candidate Starts for Tribute_11:

(Start: 21 @6361 has 121 MA's), (Start: 22 @6355 has 34 MA's), (25, 6346), (40, 6274), (44, 6241), (49, 6181), (53, 6151), (55, 6142), (68, 6076), (69, 6064),

Gene: Tribute_255 Start: 128337, Stop: 128032, Start Num: 21

Candidate Starts for Tribute_255:

(Start: 15 @128373 has 2 MA's), (Start: 21 @128337 has 121 MA's), (37, 128265), (43, 128235), (45, 128190), (53, 128136), (67, 128067),

Gene: Tribute_257 Start: 128905, Stop: 128582, Start Num: 21

Candidate Starts for Tribute_257:

(Start: 21 @128905 has 121 MA's), (Start: 22 @128899 has 34 MA's), (25, 128890), (40, 128818), (44, 128785), (49, 128725), (53, 128695), (55, 128686), (68, 128620), (69, 128608),

Gene: Tribute_9 Start: 5793, Stop: 5488, Start Num: 21

Candidate Starts for Tribute_9:

(Start: 15 @5829 has 2 MA's), (Start: 21 @5793 has 121 MA's), (37, 5721), (43, 5691), (45, 5646), (53, 5592), (67, 5523),

Gene: Wakanda_221 Start: 108728, Stop: 109015, Start Num: 20

Candidate Starts for Wakanda_221:

(Start: 20 @108728 has 4 MA's), (Start: 22 @108737 has 34 MA's), (23, 108740), (28, 108758), (33, 108794), (42, 108830), (65, 109004),

Gene: Warpy_265 Start: 127974, Stop: 127630, Start Num: 14

Candidate Starts for Warpy_265:

(Start: 14 @127974 has 4 MA's), (Start: 21 @127932 has 121 MA's), (36, 127851), (47, 127761), (56, 127704), (57, 127698), (63, 127668),

Gene: Warpy_13 Start: 6436, Stop: 6092, Start Num: 14

Candidate Starts for Warpy_13:

(Start: 14 @6436 has 4 MA's), (Start: 21 @6394 has 121 MA's), (36, 6313), (47, 6223), (56, 6166), (57, 6160), (63, 6130),

Gene: Warpy_11 Start: 5853, Stop: 5548, Start Num: 21

Candidate Starts for Warpy_11:

(Start: 21 @5853 has 121 MA's), (37, 5781), (43, 5751), (45, 5706), (50, 5679), (51, 5658), (53, 5652), (67, 5583),

Gene: Warpy_263 Start: 127391, Stop: 127086, Start Num: 21

Candidate Starts for Warpy_263:

(Start: 21 @127391 has 121 MA's), (37, 127319), (43, 127289), (45, 127244), (50, 127217), (51, 127196), (53, 127190), (67, 127121),

Gene: Watermoore_256 Start: 128390, Stop: 128085, Start Num: 21

Candidate Starts for Watermoore_256:

(8, 128531), (10, 128471), (Start: 15 @128426 has 2 MA's), (Start: 21 @128390 has 121 MA's), (37, 128318), (43, 128288), (45, 128243), (53, 128189), (67, 128120),

Gene: Watermoore_258 Start: 128958, Stop: 128635, Start Num: 21

Candidate Starts for Watermoore_258:

(Start: 21 @128958 has 121 MA's), (Start: 22 @128952 has 34 MA's), (25, 128943), (40, 128871), (44, 128838), (49, 128778), (53, 128748), (55, 128739), (68, 128673), (69, 128661),

Gene: Watermoore_9 Start: 5794, Stop: 5489, Start Num: 21

Candidate Starts for Watermoore_9:

(8, 5935), (10, 5875), (Start: 15 @5830 has 2 MA's), (Start: 21 @5794 has 121 MA's), (37, 5722), (43, 5692), (45, 5647), (53, 5593), (67, 5524),

Gene: Watermoore_11 Start: 6362, Stop: 6039, Start Num: 21

Candidate Starts for Watermoore_11:

(Start: 21 @6362 has 121 MA's), (Start: 22 @6356 has 34 MA's), (25, 6347), (40, 6275), (44, 6242), (49, 6182), (53, 6152), (55, 6143), (68, 6077), (69, 6065),

Gene: WhereRU_11 Start: 5841, Stop: 5542, Start Num: 21

Candidate Starts for WhereRU_11:

(Start: 21 @5841 has 121 MA's), (36, 5760), (47, 5670), (48, 5667), (55, 5616),

Gene: WhereRU_267 Start: 126986, Stop: 126687, Start Num: 21

Candidate Starts for WhereRU_267:

(Start: 21 @126986 has 121 MA's), (36, 126905), (47, 126815), (48, 126812), (55, 126761),

Gene: Wipeout_265 Start: 127487, Stop: 127134, Start Num: 22

Candidate Starts for Wipeout_265:

(Start: 21 @127493 has 121 MA's), (Start: 22 @127487 has 34 MA's), (25, 127472), (34, 127397), (39, 127376), (50, 127277), (70, 127148),

Gene: Wipeout_12 Start: 6756, Stop: 6403, Start Num: 22

Candidate Starts for Wipeout_12:

(Start: 21 @6762 has 121 MA's), (Start: 22 @6756 has 34 MA's), (25, 6741), (34, 6666), (39, 6645), (50, 6546), (70, 6417),

Gene: Wofford_270 Start: 128069, Stop: 127716, Start Num: 22

Candidate Starts for Wofford_270:

(Start: 21 @128075 has 121 MA's), (Start: 22 @128069 has 34 MA's), (34, 127979), (39, 127958), (46, 127883), (49, 127862), (70, 127730),

Gene: Wofford_12 Start: 6276, Stop: 5923, Start Num: 22

Candidate Starts for Wofford_12:

(Start: 21 @6282 has 121 MA's), (Start: 22 @6276 has 34 MA's), (34, 6186), (39, 6165), (46, 6090), (49, 6069), (70, 5937),

Gene: Yaboi_275 Start: 125942, Stop: 125586, Start Num: 22

Candidate Starts for Yaboi_275:

(Start: 21 @125948 has 121 MA's), (Start: 22 @125942 has 34 MA's), (34, 125849), (39, 125828), (49, 125732), (50, 125729), (59, 125675), (70, 125600),

Gene: Yaboi_271 Start: 124433, Stop: 124122, Start Num: 21

Candidate Starts for Yaboi_271:

(Start: 21 @124433 has 121 MA's), (Start: 22 @124427 has 34 MA's), (28, 124406), (38, 124355), (46, 124277), (52, 124229), (56, 124214),

Gene: Yaboi_10 Start: 5615, Stop: 5304, Start Num: 21

Candidate Starts for Yaboi_10:

(Start: 21 @5615 has 121 MA's), (Start: 22 @5609 has 34 MA's), (28, 5588), (38, 5537), (46, 5459), (52, 5411), (56, 5396),

Gene: Yaboi_14 Start: 7124, Stop: 6768, Start Num: 22

Candidate Starts for Yaboi_14:

(Start: 21 @7130 has 121 MA's), (Start: 22 @7124 has 34 MA's), (34, 7031), (39, 7010), (49, 6914), (50, 6911), (59, 6857), (70, 6782),