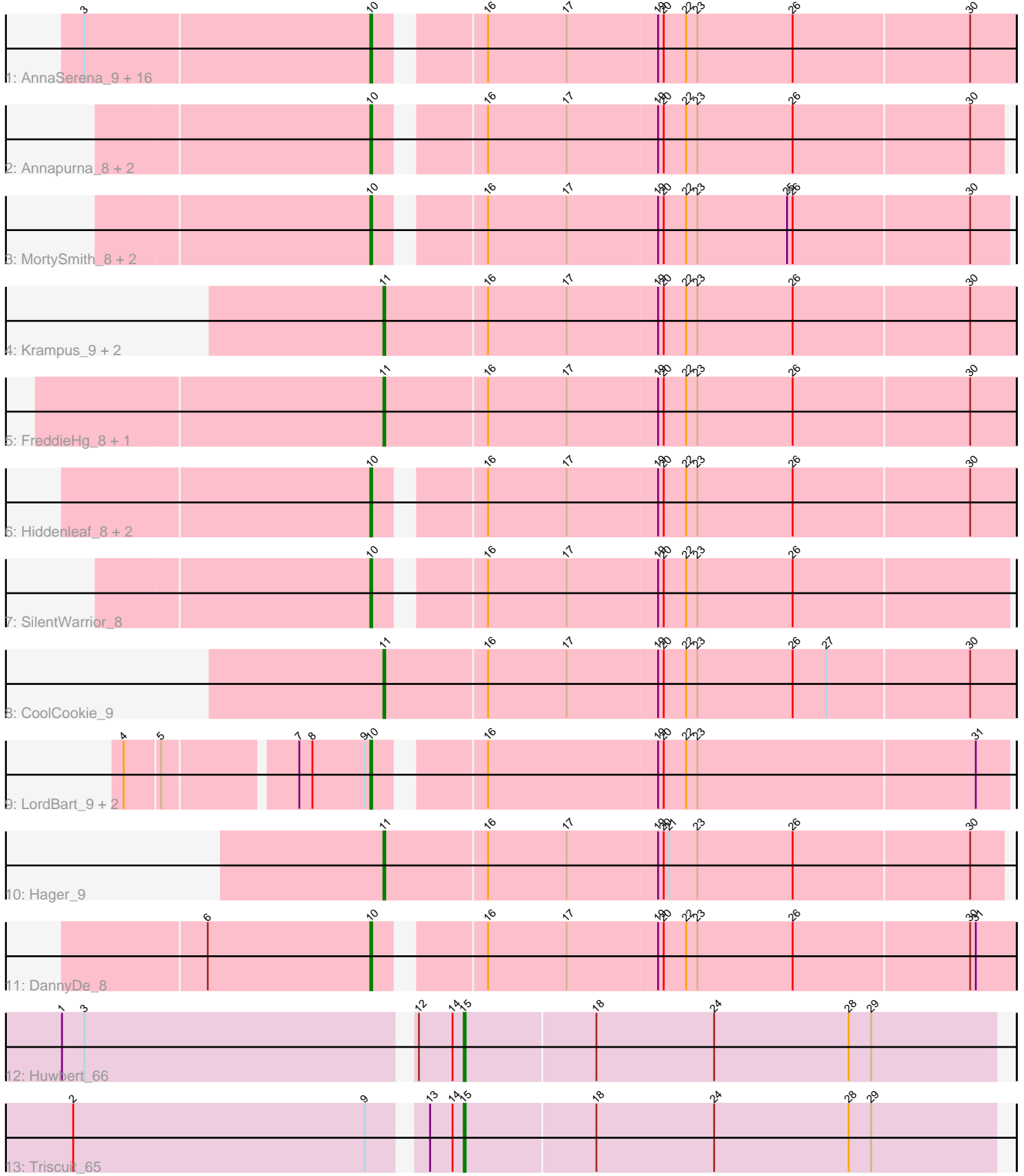


Pham 308866



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 308866 Report

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

Pham number 308866 has 40 members, 3 are drafts.

Phages represented in each track:

- Track 1 : AnnaSerena_9, Potty_9, Snakehole_10, Poultruss_8, PhunaPhoke_9, Cybele_9, OverHedge_9, Tiggy93_9, Kate_9, Tongui_8, NarutoRun_9, Rachella_9, Anakin_9, Haunter_9, Neptune_9, Tedro_9, JingleBells_8
- Track 2 : Annapurna_8, Dauntless_8, Erudite_8
- Track 3 : MortySmith_8, JDawG_9, Aesir_8
- Track 4 : Krampus_9, Gilda_9, Pharpay_9
- Track 5 : FreddieHg_8, Artiphact_9
- Track 6 : Hiddenleaf_8, Chivey_8, OhDear_9
- Track 7 : SilentWarrior_8
- Track 8 : CoolCookie_9
- Track 9 : LordBart_9, TinyMiny_9, Ajin_9
- Track 10 : Hager_9
- Track 11 : DannyDe_8
- Track 12 : Huwbert_66
- Track 13 : Triscuit_65

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

The start number called the most often in the published annotations is 10, it was called in 28 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_8, Ajin_9, Anakin_9, AnnaSerena_9, Annapurna_8, Chivey_8, Cybele_9, DannyDe_8, Dauntless_8, Erudite_8, Haunter_9, Hiddenleaf_8, JDawG_9, JingleBells_8, Kate_9, LordBart_9, MortySmith_8, NarutoRun_9, Neptune_9, OhDear_9, OverHedge_9, PhunaPhoke_9, Potty_9, Poultruss_8, Rachella_9, SilentWarrior_8, Snakehole_10, Tedro_9, Tiggy93_9, TinyMiny_9, Tongui_8,

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

-

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

- Artiphact_9, CoolCookie_9, FreddieHg_8, Gilda_9, Hager_9, Huwbert_66, Krampus_9, Pharpay_9, Triscuit_65,

Summary by start number:

Start 10:

- Found in 31 of 40 (77.5%) of genes in pham
- Manual Annotations of this start: 28 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_8 (EF), Ajin_9 (EF), Anakin_9 (EF), AnnaSerena_9 (EF), Annapurna_8 (EF), Chivey_8 (EF), Cybele_9 (EF), DannyDe_8 (EF), Dauntless_8 (EF), Erudite_8 (EF), Haunter_9 (EF), Hiddenleaf_8 (EF), JDawG_9 (EF), JingleBells_8 (EF), Kate_9 (EF), LordBart_9 (EF), MortySmith_8 (EF), NarutoRun_9 (EF), Neptune_9 (EF), OhDear_9 (EF), OverHedge_9 (EF), PhunaPhoke_9 (EF), Potty_9 (EF), Poultruss_8 (EF), Rachella_9 (EF), SilentWarrior_8 (EF), Snakehole_10 (EF), Tedro_9 (EF), Tiggy93_9 (EF), TinyMiny_9 (EF), Tongui_8 (EF),

Start 11:

- Found in 7 of 40 (17.5%) of genes in pham
- Manual Annotations of this start: 7 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artiphact_9 (EF), CoolCookie_9 (EF), FreddieHg_8 (EF), Gilda_9 (EF), Hager_9 (EF), Krampus_9 (EF), Pharpay_9 (EF),

Start 15:

- Found in 2 of 40 (5.0%) of genes in pham
- Manual Annotations of this start: 2 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Huwbart_66 (GG), Triscuit_65 (GG),

Summary by clusters:

There are 2 clusters represented in this pham: GG, EF,

Info for manual annotations of cluster EF:

- Start number 10 was manually annotated 28 times for cluster EF.
- Start number 11 was manually annotated 7 times for cluster EF.

Info for manual annotations of cluster GG:

- Start number 15 was manually annotated 2 times for cluster GG.

Gene Information:

Gene: Aesir_8 Start: 2345, Stop: 2668, Start Num: 10

Candidate Starts for Aesir_8:

(Start: 10 @2345 has 28 MA's), (16, 2393), (17, 2435), (19, 2483), (20, 2486), (22, 2498), (23, 2504), (25, 2552), (26, 2555), (30, 2648),

Gene: Ajin_9 Start: 2401, Stop: 2724, Start Num: 10

Candidate Starts for Ajin_9:

(4, 2281), (5, 2299), (7, 2365), (8, 2371), (9, 2398), (Start: 10 @2401 has 28 MA's), (16, 2449), (19, 2539), (20, 2542), (22, 2554), (23, 2560), (31, 2707),

Gene: Anakin_9 Start: 2548, Stop: 2874, Start Num: 10

Candidate Starts for Anakin_9:

(3, 2398), (Start: 10 @2548 has 28 MA's), (16, 2596), (17, 2638), (19, 2686), (20, 2689), (22, 2701), (23, 2707), (26, 2758), (30, 2851),

Gene: AnnaSerena_9 Start: 2545, Stop: 2871, Start Num: 10

Candidate Starts for AnnaSerena_9:

(3, 2395), (Start: 10 @2545 has 28 MA's), (16, 2593), (17, 2635), (19, 2683), (20, 2686), (22, 2698), (23, 2704), (26, 2755), (30, 2848),

Gene: Annapurna_8 Start: 2289, Stop: 2609, Start Num: 10

Candidate Starts for Annapurna_8:

(Start: 10 @2289 has 28 MA's), (16, 2337), (17, 2379), (19, 2427), (20, 2430), (22, 2442), (23, 2448), (26, 2499), (30, 2592),

Gene: Artiphact_9 Start: 2531, Stop: 2863, Start Num: 11

Candidate Starts for Artiphact_9:

(Start: 11 @2531 has 7 MA's), (16, 2585), (17, 2627), (19, 2675), (20, 2678), (22, 2690), (23, 2696), (26, 2747), (30, 2840),

Gene: Chivey_8 Start: 2271, Stop: 2597, Start Num: 10

Candidate Starts for Chivey_8:

(Start: 10 @2271 has 28 MA's), (16, 2319), (17, 2361), (19, 2409), (20, 2412), (22, 2424), (23, 2430), (26, 2481), (30, 2574),

Gene: CoolCookie_9 Start: 2534, Stop: 2866, Start Num: 11

Candidate Starts for CoolCookie_9:

(Start: 11 @2534 has 7 MA's), (16, 2588), (17, 2630), (19, 2678), (20, 2681), (22, 2693), (23, 2699), (26, 2750), (27, 2768), (30, 2843),

Gene: Cybele_9 Start: 2513, Stop: 2839, Start Num: 10

Candidate Starts for Cybele_9:

(3, 2363), (Start: 10 @2513 has 28 MA's), (16, 2561), (17, 2603), (19, 2651), (20, 2654), (22, 2666), (23, 2672), (26, 2723), (30, 2816),

Gene: DannyDe_8 Start: 2286, Stop: 2612, Start Num: 10

Candidate Starts for DannyDe_8:

(6, 2199), (Start: 10 @2286 has 28 MA's), (16, 2334), (17, 2376), (19, 2424), (20, 2427), (22, 2439), (23, 2445), (26, 2496), (30, 2589), (31, 2592),

Gene: Dauntless_8 Start: 2274, Stop: 2597, Start Num: 10

Candidate Starts for Dauntless_8:

(Start: 10 @2274 has 28 MA's), (16, 2322), (17, 2364), (19, 2412), (20, 2415), (22, 2427), (23, 2433), (26, 2484), (30, 2577),

Gene: Erudite_8 Start: 2274, Stop: 2597, Start Num: 10

Candidate Starts for Erudite_8:

(Start: 10 @2274 has 28 MA's), (16, 2322), (17, 2364), (19, 2412), (20, 2415), (22, 2427), (23, 2433), (26, 2484), (30, 2577),

Gene: FreddieHg_8 Start: 2278, Stop: 2610, Start Num: 11

Candidate Starts for FreddieHg_8:

(Start: 11 @2278 has 7 MA's), (16, 2332), (17, 2374), (19, 2422), (20, 2425), (22, 2437), (23, 2443), (26, 2494), (30, 2587),

Gene: Gilda_9 Start: 2531, Stop: 2863, Start Num: 11

Candidate Starts for Gilda_9:

(Start: 11 @2531 has 7 MA's), (16, 2585), (17, 2627), (19, 2675), (20, 2678), (22, 2690), (23, 2696), (26, 2747), (30, 2840),

Gene: Hager_9 Start: 2531, Stop: 2857, Start Num: 11

Candidate Starts for Hager_9:

(Start: 11 @2531 has 7 MA's), (16, 2585), (17, 2627), (19, 2675), (20, 2678), (21, 2681), (23, 2696), (26, 2747), (30, 2840),

Gene: Haunter_9 Start: 2498, Stop: 2821, Start Num: 10

Candidate Starts for Haunter_9:

(3, 2348), (Start: 10 @2498 has 28 MA's), (16, 2546), (17, 2588), (19, 2636), (20, 2639), (22, 2651), (23, 2657), (26, 2708), (30, 2801),

Gene: Hiddenleaf_8 Start: 2271, Stop: 2597, Start Num: 10

Candidate Starts for Hiddenleaf_8:

(Start: 10 @2271 has 28 MA's), (16, 2319), (17, 2361), (19, 2409), (20, 2412), (22, 2424), (23, 2430), (26, 2481), (30, 2574),

Gene: Huwbert_66 Start: 41146, Stop: 41427, Start Num: 15

Candidate Starts for Huwbert_66:

(1, 40942), (3, 40954), (12, 41122), (14, 41140), (Start: 15 @41146 has 2 MA's), (18, 41215), (24, 41278), (28, 41350), (29, 41362),

Gene: JDawG_9 Start: 2339, Stop: 2662, Start Num: 10

Candidate Starts for JDawG_9:

(Start: 10 @2339 has 28 MA's), (16, 2387), (17, 2429), (19, 2477), (20, 2480), (22, 2492), (23, 2498), (25, 2546), (26, 2549), (30, 2642),

Gene: JingleBells_8 Start: 2340, Stop: 2666, Start Num: 10

Candidate Starts for JingleBells_8:

(3, 2190), (Start: 10 @2340 has 28 MA's), (16, 2388), (17, 2430), (19, 2478), (20, 2481), (22, 2493), (23, 2499), (26, 2550), (30, 2643),

Gene: Kate_9 Start: 2545, Stop: 2871, Start Num: 10

Candidate Starts for Kate_9:

(3, 2395), (Start: 10 @2545 has 28 MA's), (16, 2593), (17, 2635), (19, 2683), (20, 2686), (22, 2698), (23, 2704), (26, 2755), (30, 2848),

Gene: Krampus_9 Start: 2537, Stop: 2869, Start Num: 11

Candidate Starts for Krampus_9:

(Start: 11 @2537 has 7 MA's), (16, 2591), (17, 2633), (19, 2681), (20, 2684), (22, 2696), (23, 2702), (26, 2753), (30, 2846),

Gene: LordBart_9 Start: 2407, Stop: 2730, Start Num: 10

Candidate Starts for LordBart_9:

(4, 2287), (5, 2305), (7, 2371), (8, 2377), (9, 2404), (Start: 10 @2407 has 28 MA's), (16, 2455), (19, 2545), (20, 2548), (22, 2560), (23, 2566), (31, 2713),

Gene: MortySmith_8 Start: 2256, Stop: 2579, Start Num: 10

Candidate Starts for MortySmith_8:

(Start: 10 @2256 has 28 MA's), (16, 2304), (17, 2346), (19, 2394), (20, 2397), (22, 2409), (23, 2415), (25, 2463), (26, 2466), (30, 2559),

Gene: NarutoRun_9 Start: 2548, Stop: 2874, Start Num: 10

Candidate Starts for NarutoRun_9:

(3, 2398), (Start: 10 @2548 has 28 MA's), (16, 2596), (17, 2638), (19, 2686), (20, 2689), (22, 2701), (23, 2707), (26, 2758), (30, 2851),

Gene: Neptune_9 Start: 2513, Stop: 2839, Start Num: 10

Candidate Starts for Neptune_9:

(3, 2363), (Start: 10 @2513 has 28 MA's), (16, 2561), (17, 2603), (19, 2651), (20, 2654), (22, 2666), (23, 2672), (26, 2723), (30, 2816),

Gene: OhDear_9 Start: 2542, Stop: 2868, Start Num: 10

Candidate Starts for OhDear_9:

(Start: 10 @2542 has 28 MA's), (16, 2590), (17, 2632), (19, 2680), (20, 2683), (22, 2695), (23, 2701), (26, 2752), (30, 2845),

Gene: OverHedge_9 Start: 2510, Stop: 2836, Start Num: 10

Candidate Starts for OverHedge_9:

(3, 2360), (Start: 10 @2510 has 28 MA's), (16, 2558), (17, 2600), (19, 2648), (20, 2651), (22, 2663), (23, 2669), (26, 2720), (30, 2813),

Gene: Pharpay_9 Start: 2552, Stop: 2884, Start Num: 11

Candidate Starts for Pharpay_9:

(Start: 11 @2552 has 7 MA's), (16, 2606), (17, 2648), (19, 2696), (20, 2699), (22, 2711), (23, 2717), (26, 2768), (30, 2861),

Gene: PhunaPhoke_9 Start: 2531, Stop: 2857, Start Num: 10

Candidate Starts for PhunaPhoke_9:

(3, 2381), (Start: 10 @2531 has 28 MA's), (16, 2579), (17, 2621), (19, 2669), (20, 2672), (22, 2684), (23, 2690), (26, 2741), (30, 2834),

Gene: Potty_9 Start: 2536, Stop: 2862, Start Num: 10

Candidate Starts for Potty_9:

(3, 2386), (Start: 10 @2536 has 28 MA's), (16, 2584), (17, 2626), (19, 2674), (20, 2677), (22, 2689), (23, 2695), (26, 2746), (30, 2839),

Gene: Poultruss_8 Start: 2310, Stop: 2636, Start Num: 10

Candidate Starts for Poultruss_8:

(3, 2160), (Start: 10 @2310 has 28 MA's), (16, 2358), (17, 2400), (19, 2448), (20, 2451), (22, 2463), (23, 2469), (26, 2520), (30, 2613),

Gene: Rachella_9 Start: 2542, Stop: 2868, Start Num: 10

Candidate Starts for Rachella_9:

(3, 2392), (Start: 10 @2542 has 28 MA's), (16, 2590), (17, 2632), (19, 2680), (20, 2683), (22, 2695), (23, 2701), (26, 2752), (30, 2845),

Gene: SilentWarrior_8 Start: 2286, Stop: 2609, Start Num: 10

Candidate Starts for SilentWarrior_8:

(Start: 10 @2286 has 28 MA's), (16, 2334), (17, 2376), (19, 2424), (20, 2427), (22, 2439), (23, 2445), (26, 2496),

Gene: Snakehole_10 Start: 2366, Stop: 2692, Start Num: 10

Candidate Starts for Snakehole_10:

(3, 2216), (Start: 10 @2366 has 28 MA's), (16, 2414), (17, 2456), (19, 2504), (20, 2507), (22, 2519), (23, 2525), (26, 2576), (30, 2669),

Gene: Tedro_9 Start: 2542, Stop: 2862, Start Num: 10

Candidate Starts for Tedro_9:

(3, 2392), (Start: 10 @2542 has 28 MA's), (16, 2590), (17, 2632), (19, 2680), (20, 2683), (22, 2695), (23, 2701), (26, 2752), (30, 2845),

Gene: Tiggy93_9 Start: 2542, Stop: 2868, Start Num: 10

Candidate Starts for Tiggy93_9:

(3, 2392), (Start: 10 @2542 has 28 MA's), (16, 2590), (17, 2632), (19, 2680), (20, 2683), (22, 2695), (23, 2701), (26, 2752), (30, 2845),

Gene: TinyMiny_9 Start: 2338, Stop: 2661, Start Num: 10

Candidate Starts for TinyMiny_9:

(4, 2218), (5, 2236), (7, 2302), (8, 2308), (9, 2335), (Start: 10 @2338 has 28 MA's), (16, 2386), (19, 2476), (20, 2479), (22, 2491), (23, 2497), (31, 2644),

Gene: Tongui_8 Start: 2369, Stop: 2695, Start Num: 10

Candidate Starts for Tongui_8:

(3, 2219), (Start: 10 @2369 has 28 MA's), (16, 2417), (17, 2459), (19, 2507), (20, 2510), (22, 2522), (23, 2528), (26, 2579), (30, 2672),

Gene: Triscuit_65 Start: 41070, Stop: 41351, Start Num: 15

Candidate Starts for Triscuit_65:

(2, 40872), (9, 41028), (13, 41052), (14, 41064), (Start: 15 @41070 has 2 MA's), (18, 41139), (24, 41202), (28, 41274), (29, 41286),