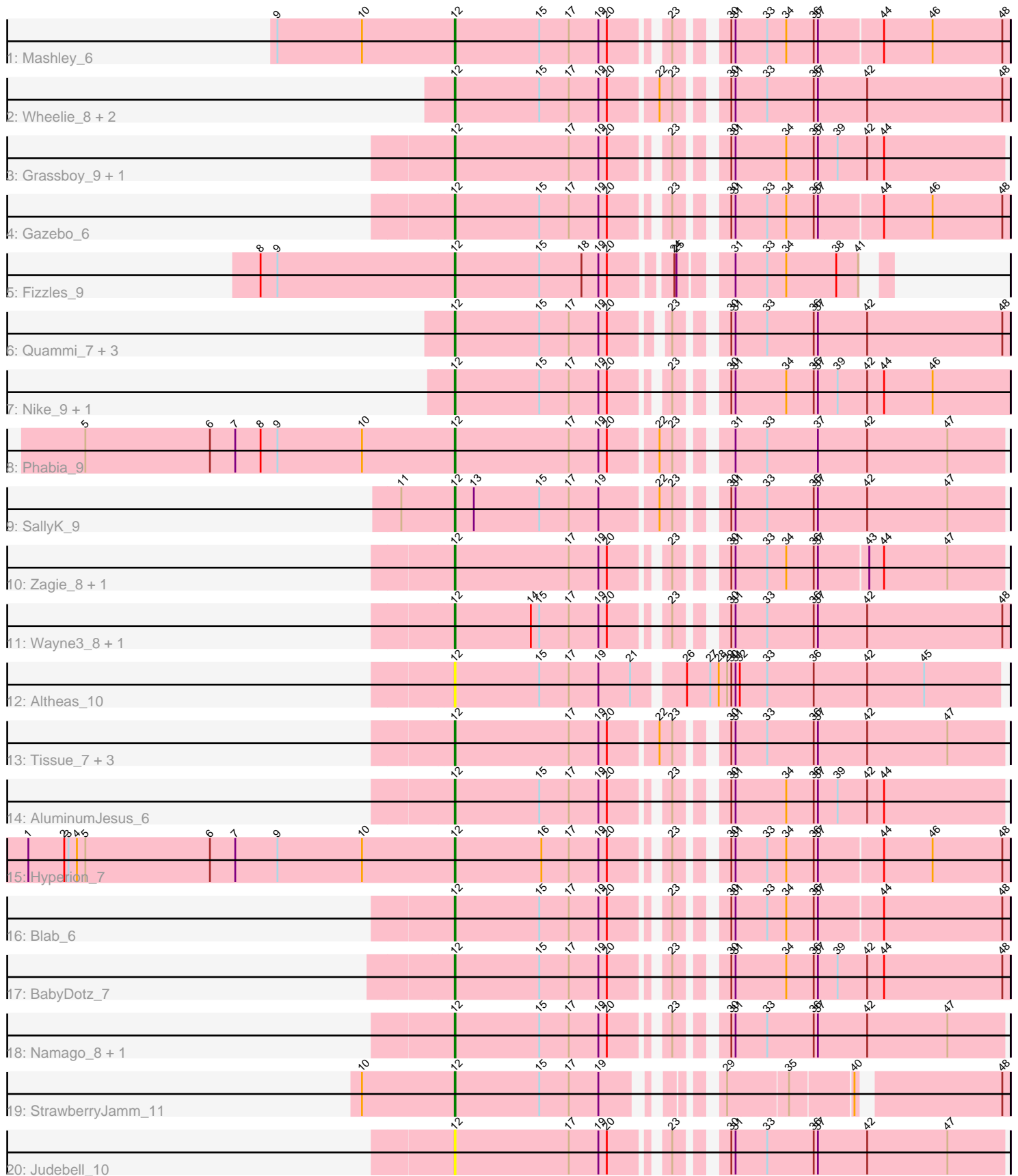


# Pham 49247



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 49247 Report

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

Pham number 49247 has 33 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Mashley\_6
- Track 2 : Wheelie\_8, Llemily\_9, DonaldDuck\_9
- Track 3 : Grassboy\_9, Kyva\_11
- Track 4 : Gazebo\_6
- Track 5 : Fizzles\_9
- Track 6 : Quammi\_7, Viceroy\_8, Rudy\_7, Sillytadpoles\_9
- Track 7 : Nike\_9, Squash\_10
- Track 8 : Phabia\_9
- Track 9 : SallyK\_9
- Track 10 : Zagie\_8, Rowlf\_5
- Track 11 : Wayne3\_8, Casend\_8
- Track 12 : Altheas\_10
- Track 13 : Tissue\_7, Lonelysoil\_7, Jehoshaphat\_10, Teehee\_10
- Track 14 : AluminumJesus\_6
- Track 15 : Hyperion\_7
- Track 16 : Blab\_6
- Track 17 : BabyDotz\_7
- Track 18 : Namago\_8, Zhafia\_11
- Track 19 : StrawberryJamm\_11
- Track 20 : Judebell\_10

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

The start number called the most often in the published annotations is 12, it was called in 24 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altheas\_10, AluminumJesus\_6, BabyDotz\_7, Blab\_6, Casend\_8, DonaldDuck\_9, Fizzles\_9, Gazebo\_6, Grassboy\_9, Hyperion\_7, Jehoshaphat\_10, Judebell\_10, Kyva\_11, Llemily\_9, Lonelysoil\_7, Mashley\_6, Namago\_8, Nike\_9, Phabia\_9, Quammi\_7, Rowlf\_5, Rudy\_7, SallyK\_9, Sillytadpoles\_9, Squash\_10, StrawberryJamm\_11, Teehee\_10, Tissue\_7, Viceroy\_8, Wayne3\_8, Wheelie\_8, Zagie\_8, Zhafia\_11,

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

- 

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

- 

### Summary by start number:

Start 12:

- Found in 33 of 33 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 24 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altheas\_10 (EG), AluminumJesus\_6 (EG), BabyDotz\_7 (EG), Blab\_6 (EG), Casend\_8 (EG), DonaldDuck\_9 (EG), Fizzles\_9 (EG), Gazebo\_6 (EG), Grassboy\_9 (EG), Hyperion\_7 (EG), Jehoshaphat\_10 (EG), Judebell\_10 (EG), Kyva\_11 (EG), Llemily\_9 (EG), Lonelysoil\_7 (EG), Mashley\_6 (EG), Namago\_8 (EG), Nike\_9 (EG), Phabia\_9 (EG), Quammi\_7 (EG), Rowlf\_5 (EG), Rudy\_7 (EG), SallyK\_9 (EG), Sillytadpoles\_9 (EG), Squash\_10 (EG), StrawberryJamm\_11 (EG), Teehee\_10 (EG), Tissue\_7 (EG), Viceroy\_8 (EG), Wayne3\_8 (EG), Wheelie\_8 (EG), Zagie\_8 (EG), Zhafia\_11 (EG),

### Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 12 was manually annotated 24 times for cluster EG.

### Gene Information:

Gene: Altheas\_10 Start: 3572, Stop: 2817, Start Num: 12

Candidate Starts for Altheas\_10:

(Start: 12 @3572 has 24 MA's), (15, 3452), (17, 3410), (19, 3368), (21, 3323), (26, 3260), (27, 3227), (28, 3215), (29, 3203), (30, 3197), (31, 3191), (32, 3185), (33, 3146), (36, 3080), (42, 3005), (45, 2924),

Gene: AluminumJesus\_6 Start: 2462, Stop: 1749, Start Num: 12

Candidate Starts for AluminumJesus\_6:

(Start: 12 @2462 has 24 MA's), (15, 2342), (17, 2300), (19, 2258), (20, 2246), (23, 2183), (30, 2135), (31, 2129), (34, 2057), (36, 2018), (37, 2012), (39, 1985), (42, 1943), (44, 1919),

Gene: BabyDotz\_7 Start: 3165, Stop: 2443, Start Num: 12

Candidate Starts for BabyDotz\_7:

(Start: 12 @3165 has 24 MA's), (15, 3045), (17, 3003), (19, 2961), (20, 2949), (23, 2886), (30, 2838), (31, 2832), (34, 2760), (36, 2721), (37, 2715), (39, 2688), (42, 2646), (44, 2622), (48, 2454),

Gene: Blab\_6 Start: 2244, Stop: 1528, Start Num: 12

Candidate Starts for Blab\_6:

(Start: 12 @2244 has 24 MA's), (15, 2124), (17, 2082), (19, 2040), (20, 2028), (23, 1965), (30, 1917), (31, 1911), (33, 1866), (34, 1839), (36, 1800), (37, 1794), (44, 1707), (48, 1539),

Gene: Casend\_8 Start: 3052, Stop: 2330, Start Num: 12

Candidate Starts for Casend\_8:

(Start: 12 @3052 has 24 MA's), (14, 2944), (15, 2932), (17, 2890), (19, 2848), (20, 2836), (23, 2773), (30, 2725), (31, 2719), (33, 2674), (36, 2608), (37, 2602), (42, 2533), (48, 2341),

Gene: DonaldDuck\_9 Start: 2822, Stop: 2082, Start Num: 12

Candidate Starts for DonaldDuck\_9:

(Start: 12 @2822 has 24 MA's), (15, 2702), (17, 2660), (19, 2618), (20, 2606), (22, 2543), (23, 2525), (30, 2477), (31, 2471), (33, 2426), (36, 2360), (37, 2354), (42, 2285), (48, 2093),

Gene: Fizzles\_9 Start: 3173, Stop: 2631, Start Num: 12

Candidate Starts for Fizzles\_9:

(8, 3449), (9, 3425), (Start: 12 @3173 has 24 MA's), (15, 3053), (18, 2993), (19, 2969), (20, 2957), (24, 2882), (25, 2879), (31, 2822), (33, 2777), (34, 2750), (38, 2681), (41, 2651),

Gene: Gazebo\_6 Start: 2778, Stop: 2062, Start Num: 12

Candidate Starts for Gazebo\_6:

(Start: 12 @2778 has 24 MA's), (15, 2658), (17, 2616), (19, 2574), (20, 2562), (23, 2499), (30, 2451), (31, 2445), (33, 2400), (34, 2373), (36, 2334), (37, 2328), (44, 2241), (46, 2172), (48, 2073),

Gene: Grassboy\_9 Start: 3271, Stop: 2558, Start Num: 12

Candidate Starts for Grassboy\_9:

(Start: 12 @3271 has 24 MA's), (17, 3109), (19, 3067), (20, 3055), (23, 2992), (30, 2944), (31, 2938), (34, 2866), (36, 2827), (37, 2821), (39, 2794), (42, 2752), (44, 2728),

Gene: Hyperion\_7 Start: 2815, Stop: 2099, Start Num: 12

Candidate Starts for Hyperion\_7:

(1, 3421), (2, 3370), (3, 3364), (4, 3352), (5, 3340), (6, 3163), (7, 3127), (9, 3067), (10, 2947), (Start: 12 @2815 has 24 MA's), (16, 2692), (17, 2653), (19, 2611), (20, 2599), (23, 2536), (30, 2488), (31, 2482), (33, 2437), (34, 2410), (36, 2371), (37, 2365), (44, 2278), (46, 2209), (48, 2110),

Gene: Jehoshaphat\_10 Start: 3721, Stop: 2990, Start Num: 12

Candidate Starts for Jehoshaphat\_10:

(Start: 12 @3721 has 24 MA's), (17, 3559), (19, 3517), (20, 3505), (22, 3442), (23, 3424), (30, 3376), (31, 3370), (33, 3325), (36, 3259), (37, 3253), (42, 3184), (47, 3070),

Gene: Judebell\_10 Start: 3340, Stop: 2627, Start Num: 12

Candidate Starts for Judebell\_10:

(Start: 12 @3340 has 24 MA's), (17, 3178), (19, 3136), (20, 3124), (23, 3061), (30, 3013), (31, 3007), (33, 2962), (36, 2896), (37, 2890), (42, 2821), (47, 2707),

Gene: Kyva\_11 Start: 3306, Stop: 2593, Start Num: 12

Candidate Starts for Kyva\_11:

(Start: 12 @3306 has 24 MA's), (17, 3144), (19, 3102), (20, 3090), (23, 3027), (30, 2979), (31, 2973), (34, 2901), (36, 2862), (37, 2856), (39, 2829), (42, 2787), (44, 2763),

Gene: Llemily\_9 Start: 2823, Stop: 2083, Start Num: 12

Candidate Starts for Llemily\_9:

(Start: 12 @2823 has 24 MA's), (15, 2703), (17, 2661), (19, 2619), (20, 2607), (22, 2544), (23, 2526), (30, 2478), (31, 2472), (33, 2427), (36, 2361), (37, 2355), (42, 2286), (48, 2094),

Gene: Lonelysoil\_7 Start: 2829, Stop: 2098, Start Num: 12

Candidate Starts for Lonelysoil\_7:

(Start: 12 @2829 has 24 MA's), (17, 2667), (19, 2625), (20, 2613), (22, 2550), (23, 2532), (30, 2484), (31, 2478), (33, 2433), (36, 2367), (37, 2361), (42, 2292), (47, 2178),

Gene: Mashley\_6 Start: 2632, Stop: 1916, Start Num: 12

Candidate Starts for Mashley\_6:

(9, 2884), (10, 2764), (Start: 12 @2632 has 24 MA's), (15, 2512), (17, 2470), (19, 2428), (20, 2416), (23, 2353), (30, 2305), (31, 2299), (33, 2254), (34, 2227), (36, 2188), (37, 2182), (44, 2095), (46, 2026), (48, 1927),

Gene: Namago\_8 Start: 2647, Stop: 1934, Start Num: 12

Candidate Starts for Namago\_8:

(Start: 12 @2647 has 24 MA's), (15, 2527), (17, 2485), (19, 2443), (20, 2431), (23, 2368), (30, 2320), (31, 2314), (33, 2269), (36, 2203), (37, 2197), (42, 2128), (47, 2014),

Gene: Nike\_9 Start: 3098, Stop: 2376, Start Num: 12

Candidate Starts for Nike\_9:

(Start: 12 @3098 has 24 MA's), (15, 2978), (17, 2936), (19, 2894), (20, 2882), (23, 2819), (30, 2771), (31, 2765), (34, 2693), (36, 2654), (37, 2648), (39, 2621), (42, 2579), (44, 2555), (46, 2486),

Gene: Phabia\_9 Start: 3244, Stop: 2513, Start Num: 12

Candidate Starts for Phabia\_9:

(5, 3769), (6, 3592), (7, 3556), (8, 3520), (9, 3496), (10, 3376), (Start: 12 @3244 has 24 MA's), (17, 3082), (19, 3040), (20, 3028), (22, 2965), (23, 2947), (31, 2893), (33, 2848), (37, 2776), (42, 2707), (47, 2593),

Gene: Quammi\_7 Start: 2812, Stop: 2090, Start Num: 12

Candidate Starts for Quammi\_7:

(Start: 12 @2812 has 24 MA's), (15, 2692), (17, 2650), (19, 2608), (20, 2596), (23, 2533), (30, 2485), (31, 2479), (33, 2434), (36, 2368), (37, 2362), (42, 2293), (48, 2101),

Gene: Rowlf\_5 Start: 2408, Stop: 1701, Start Num: 12

Candidate Starts for Rowlf\_5:

(Start: 12 @2408 has 24 MA's), (17, 2246), (19, 2204), (20, 2192), (23, 2129), (30, 2081), (31, 2075), (33, 2030), (34, 2003), (36, 1964), (37, 1958), (43, 1892), (44, 1871), (47, 1781),

Gene: Rudy\_7 Start: 2812, Stop: 2090, Start Num: 12

Candidate Starts for Rudy\_7:

(Start: 12 @2812 has 24 MA's), (15, 2692), (17, 2650), (19, 2608), (20, 2596), (23, 2533), (30, 2485), (31, 2479), (33, 2434), (36, 2368), (37, 2362), (42, 2293), (48, 2101),

Gene: SallyK\_9 Start: 3771, Stop: 3040, Start Num: 12

Candidate Starts for SallyK\_9:

(11, 3846), (Start: 12 @3771 has 24 MA's), (13, 3744), (15, 3651), (17, 3609), (19, 3567), (22, 3492), (23, 3474), (30, 3426), (31, 3420), (33, 3375), (36, 3309), (37, 3303), (42, 3234), (47, 3120),

Gene: Sillytadpoles\_9 Start: 2810, Stop: 2088, Start Num: 12

Candidate Starts for Sillytadpoles\_9:

(Start: 12 @2810 has 24 MA's), (15, 2690), (17, 2648), (19, 2606), (20, 2594), (23, 2531), (30, 2483), (31, 2477), (33, 2432), (36, 2366), (37, 2360), (42, 2291), (48, 2099),

Gene: Squash\_10 Start: 3153, Stop: 2431, Start Num: 12

Candidate Starts for Squash\_10:

(Start: 12 @3153 has 24 MA's), (15, 3033), (17, 2991), (19, 2949), (20, 2937), (23, 2874), (30, 2826), (31, 2820), (34, 2748), (36, 2709), (37, 2703), (39, 2676), (42, 2634), (44, 2610), (46, 2541),

Gene: StrawberryJamm\_11 Start: 3121, Stop: 2456, Start Num: 12

Candidate Starts for StrawberryJamm\_11:

(10, 3253), (Start: 12 @3121 has 24 MA's), (15, 3001), (17, 2959), (19, 2917), (29, 2812), (35, 2737), (40, 2653), (48, 2467),

Gene: Teehee\_10 Start: 3721, Stop: 2990, Start Num: 12

Candidate Starts for Teehee\_10:

(Start: 12 @3721 has 24 MA's), (17, 3559), (19, 3517), (20, 3505), (22, 3442), (23, 3424), (30, 3376), (31, 3370), (33, 3325), (36, 3259), (37, 3253), (42, 3184), (47, 3070),

Gene: Tissue\_7 Start: 2852, Stop: 2121, Start Num: 12

Candidate Starts for Tissue\_7:

(Start: 12 @2852 has 24 MA's), (17, 2690), (19, 2648), (20, 2636), (22, 2573), (23, 2555), (30, 2507), (31, 2501), (33, 2456), (36, 2390), (37, 2384), (42, 2315), (47, 2201),

Gene: Viceroy\_8 Start: 2812, Stop: 2090, Start Num: 12

Candidate Starts for Viceroy\_8:

(Start: 12 @2812 has 24 MA's), (15, 2692), (17, 2650), (19, 2608), (20, 2596), (23, 2533), (30, 2485), (31, 2479), (33, 2434), (36, 2368), (37, 2362), (42, 2293), (48, 2101),

Gene: Wayne3\_8 Start: 3047, Stop: 2325, Start Num: 12

Candidate Starts for Wayne3\_8:

(Start: 12 @3047 has 24 MA's), (14, 2939), (15, 2927), (17, 2885), (19, 2843), (20, 2831), (23, 2768), (30, 2720), (31, 2714), (33, 2669), (36, 2603), (37, 2597), (42, 2528), (48, 2336),

Gene: Wheelie\_8 Start: 2822, Stop: 2082, Start Num: 12

Candidate Starts for Wheelie\_8:

(Start: 12 @2822 has 24 MA's), (15, 2702), (17, 2660), (19, 2618), (20, 2606), (22, 2543), (23, 2525), (30, 2477), (31, 2471), (33, 2426), (36, 2360), (37, 2354), (42, 2285), (48, 2093),

Gene: Zagie\_8 Start: 3145, Stop: 2438, Start Num: 12

Candidate Starts for Zagie\_8:

(Start: 12 @3145 has 24 MA's), (17, 2983), (19, 2941), (20, 2929), (23, 2866), (30, 2818), (31, 2812), (33, 2767), (34, 2740), (36, 2701), (37, 2695), (43, 2629), (44, 2608), (47, 2518),

Gene: Zhafia\_11 Start: 3317, Stop: 2604, Start Num: 12

Candidate Starts for Zhafia\_11:

(Start: 12 @3317 has 24 MA's), (15, 3197), (17, 3155), (19, 3113), (20, 3101), (23, 3038), (30, 2990), (31, 2984), (33, 2939), (36, 2873), (37, 2867), (42, 2798), (47, 2684),