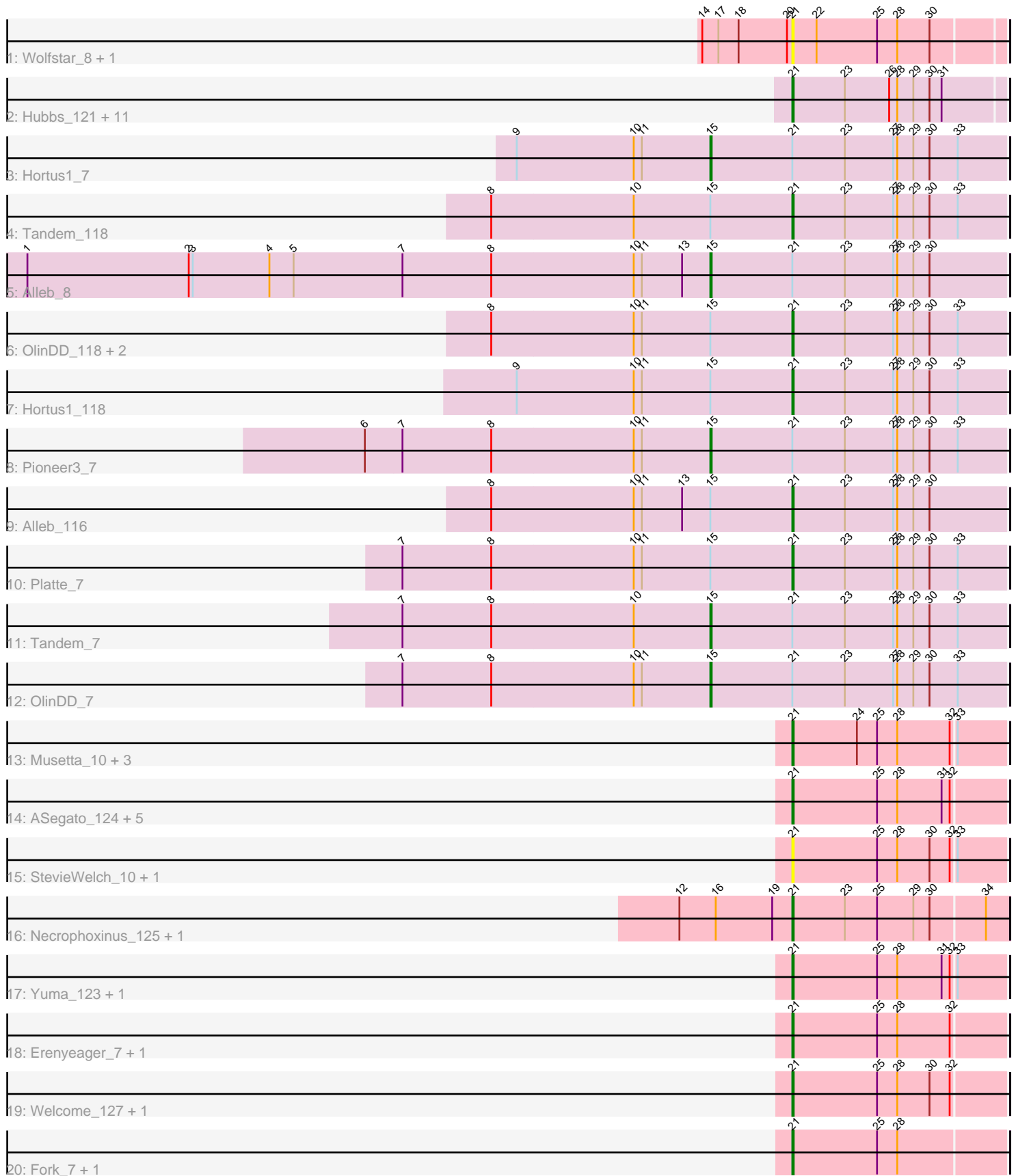


Pham 163683



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 163683 Report

This analysis was run 05/04/24 on database version 560.

Pham number 163683 has 48 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_8, Wolfstar_124
- Track 2 : Hubbs_121, Roman_123, DejaVu_7, Hubbs_7, PhillyPhilly_118, Pavlo_119, Lupine_117, PhillyPhilly_8, Lupine_7, DejaVu_123, Pavlo_7, Roman_7
- Track 3 : Hortus1_7
- Track 4 : Tandem_118
- Track 5 : Alleb_8
- Track 6 : OlinDD_118, Platte_117, Pioneer3_118
- Track 7 : Hortus1_118
- Track 8 : Pioneer3_7
- Track 9 : Alleb_116
- Track 10 : Platte_7
- Track 11 : Tandem_7
- Track 12 : OlinDD_7
- Track 13 : Musetta_10, Lyell_125, Lyell_10, Musetta_123
- Track 14 : ASegato_124, DustyDino_10, ASegato_10, DustyDino_128, RunningBrook_128, RunningBrook_10
- Track 15 : StevieWelch_10, StevieWelch_128
- Track 16 : Necrophoxinus_125, Necrophoxinus_9
- Track 17 : Yuma_123, Yuma_10
- Track 18 : Erenyeager_7, Erenyeager_122
- Track 19 : Welcome_127, Welcome_10
- Track 20 : Fork_7, Fork_119

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 37 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato_10, ASegato_124, Alleb_116, DejaVu_123, DejaVu_7, DustyDino_10, DustyDino_128, Erenyeager_122, Erenyeager_7, Fork_119, Fork_7, Hortus1_118, Hubbs_121, Hubbs_7, Lupine_117, Lupine_7, Lyell_10, Lyell_125, Musetta_10, Musetta_123, Necrophoxinus_125, Necrophoxinus_9, OlinDD_118, Pavlo_119, Pavlo_7, PhillyPhilly_118, PhillyPhilly_8, Pioneer3_118, Platte_117, Platte_7,

Roman_123, Roman_7, RunningBrook_10, RunningBrook_128, StevieWelch_10, StevieWelch_128, Tandem_118, Welcome_10, Welcome_127, Wolfstar_124, Wolfstar_8, Yuma_10, Yuma_123,

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

- Alleb_8, Hortus1_7, OlinDD_7, Pioneer3_7, Tandem_7,

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

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Summary by start number:

Start 15:

- Found in 12 of 48 (25.0%) of genes in pham
- Manual Annotations of this start: 5 of 42
- Called 41.7% of time when present
- Phage (with cluster) where this start called: Alleb_8 (ED1), Hortus1_7 (ED1), OlinDD_7 (ED1), Pioneer3_7 (ED1), Tandem_7 (ED1),

Start 21:

- Found in 48 of 48 (100.0%) of genes in pham
- Manual Annotations of this start: 37 of 42
- Called 89.6% of time when present
- Phage (with cluster) where this start called: ASegato_10 (ED2), ASegato_124 (ED2), Alleb_116 (ED1), DejaVu_123 (ED1), DejaVu_7 (ED1), DustyDino_10 (ED2), DustyDino_128 (ED2), Erenyeager_122 (ED2), Erenyeager_7 (ED2), Fork_119 (ED2), Fork_7 (ED2), Hortus1_118 (ED1), Hubbs_121 (ED1), Hubbs_7 (ED1), Lupine_117 (ED1), Lupine_7 (ED1), Lyell_10 (ED2), Lyell_125 (ED2), Musetta_10 (ED2), Musetta_123 (ED2), Necrophoxinus_125 (ED2), Necrophoxinus_9 (ED2), OlinDD_118 (ED1), Pavlo_119 (ED1), Pavlo_7 (ED1), PhillyPhilly_118 (ED1), PhillyPhilly_8 (ED1), Pioneer3_118 (ED1), Platte_117 (ED1), Platte_7 (ED1), Roman_123 (ED1), Roman_7 (ED1), RunningBrook_10 (ED2), RunningBrook_128 (ED2), StevieWelch_10 (ED2), StevieWelch_128 (ED2), Tandem_118 (ED1), Welcome_10 (ED2), Welcome_127 (ED2), Wolfstar_124 (ED), Wolfstar_8 (ED), Yuma_10 (ED2), Yuma_123 (ED2),

Summary by clusters:

There are 3 clusters represented in this pham: ED2, ED, ED1,

Info for manual annotations of cluster ED1:

- Start number 15 was manually annotated 5 times for cluster ED1.
- Start number 21 was manually annotated 19 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 21 was manually annotated 18 times for cluster ED2.

Gene Information:

Gene: ASegato_124 Start: 62989, Stop: 62834, Start Num: 21

Candidate Starts for ASegato_124:

(Start: 21 @62989 has 37 MA's), (25, 62926), (28, 62911), (31, 62878), (32, 62872),

Gene: ASegato_10 Start: 3540, Stop: 3385, Start Num: 21

Candidate Starts for ASegato_10:

(Start: 21 @3540 has 37 MA's), (25, 3477), (28, 3462), (31, 3429), (32, 3423),

Gene: Alleb_8 Start: 3008, Stop: 2790, Start Num: 15

Candidate Starts for Alleb_8:

(1, 3515), (2, 3395), (3, 3392), (4, 3335), (5, 3317), (7, 3236), (8, 3170), (10, 3065), (11, 3059), (13, 3029), (Start: 15 @3008 has 5 MA's), (Start: 21 @2948 has 37 MA's), (23, 2909), (27, 2873), (28, 2870), (29, 2858), (30, 2846),

Gene: Alleb_116 Start: 62427, Stop: 62269, Start Num: 21

Candidate Starts for Alleb_116:

(8, 62649), (10, 62544), (11, 62538), (13, 62508), (Start: 15 @62487 has 5 MA's), (Start: 21 @62427 has 37 MA's), (23, 62388), (27, 62352), (28, 62349), (29, 62337), (30, 62325),

Gene: DejaVu_7 Start: 2697, Stop: 2542, Start Num: 21

Candidate Starts for DejaVu_7:

(Start: 21 @2697 has 37 MA's), (23, 2658), (26, 2625), (28, 2619), (29, 2607), (30, 2595), (31, 2586),

Gene: DejaVu_123 Start: 63077, Stop: 62922, Start Num: 21

Candidate Starts for DejaVu_123:

(Start: 21 @63077 has 37 MA's), (23, 63038), (26, 63005), (28, 62999), (29, 62987), (30, 62975), (31, 62966),

Gene: DustyDino_10 Start: 3578, Stop: 3423, Start Num: 21

Candidate Starts for DustyDino_10:

(Start: 21 @3578 has 37 MA's), (25, 3515), (28, 3500), (31, 3467), (32, 3461),

Gene: DustyDino_128 Start: 63668, Stop: 63513, Start Num: 21

Candidate Starts for DustyDino_128:

(Start: 21 @63668 has 37 MA's), (25, 63605), (28, 63590), (31, 63557), (32, 63551),

Gene: Erenyeager_7 Start: 2956, Stop: 2801, Start Num: 21

Candidate Starts for Erenyeager_7:

(Start: 21 @2956 has 37 MA's), (25, 2893), (28, 2878), (32, 2839),

Gene: Erenyeager_122 Start: 62617, Stop: 62462, Start Num: 21

Candidate Starts for Erenyeager_122:

(Start: 21 @62617 has 37 MA's), (25, 62554), (28, 62539), (32, 62500),

Gene: Fork_7 Start: 2844, Stop: 2689, Start Num: 21

Candidate Starts for Fork_7:

(Start: 21 @2844 has 37 MA's), (25, 2781), (28, 2766),

Gene: Fork_119 Start: 61835, Stop: 61680, Start Num: 21

Candidate Starts for Fork_119:

(Start: 21 @61835 has 37 MA's), (25, 61772), (28, 61757),

Gene: Hortus1_7 Start: 2961, Stop: 2743, Start Num: 15

Candidate Starts for Hortus1_7:

(9, 3105), (10, 3018), (11, 3012), (Start: 15 @2961 has 5 MA's), (Start: 21 @2901 has 37 MA's), (23, 2862), (27, 2826), (28, 2823), (29, 2811), (30, 2799), (33, 2778),

Gene: Hortus1_118 Start: 62861, Stop: 62703, Start Num: 21

Candidate Starts for Hortus1_118:

(9, 63065), (10, 62978), (11, 62972), (Start: 15 @62921 has 5 MA's), (Start: 21 @62861 has 37 MA's), (23, 62822), (27, 62786), (28, 62783), (29, 62771), (30, 62759), (33, 62738),

Gene: Hubbs_121 Start: 63600, Stop: 63445, Start Num: 21

Candidate Starts for Hubbs_121:

(Start: 21 @63600 has 37 MA's), (23, 63561), (26, 63528), (28, 63522), (29, 63510), (30, 63498), (31, 63489),

Gene: Hubbs_7 Start: 3201, Stop: 3046, Start Num: 21

Candidate Starts for Hubbs_7:

(Start: 21 @3201 has 37 MA's), (23, 3162), (26, 3129), (28, 3123), (29, 3111), (30, 3099), (31, 3090),

Gene: Lupine_117 Start: 62271, Stop: 62116, Start Num: 21

Candidate Starts for Lupine_117:

(Start: 21 @62271 has 37 MA's), (23, 62232), (26, 62199), (28, 62193), (29, 62181), (30, 62169), (31, 62160),

Gene: Lupine_7 Start: 2998, Stop: 2843, Start Num: 21

Candidate Starts for Lupine_7:

(Start: 21 @2998 has 37 MA's), (23, 2959), (26, 2926), (28, 2920), (29, 2908), (30, 2896), (31, 2887),

Gene: Lyell_125 Start: 62460, Stop: 62305, Start Num: 21

Candidate Starts for Lyell_125:

(Start: 21 @62460 has 37 MA's), (24, 62412), (25, 62397), (28, 62382), (32, 62343), (33, 62340),

Gene: Lyell_10 Start: 3293, Stop: 3138, Start Num: 21

Candidate Starts for Lyell_10:

(Start: 21 @3293 has 37 MA's), (24, 3245), (25, 3230), (28, 3215), (32, 3176), (33, 3173),

Gene: Musetta_10 Start: 3554, Stop: 3399, Start Num: 21

Candidate Starts for Musetta_10:

(Start: 21 @3554 has 37 MA's), (24, 3506), (25, 3491), (28, 3476), (32, 3437), (33, 3434),

Gene: Musetta_123 Start: 63349, Stop: 63194, Start Num: 21

Candidate Starts for Musetta_123:

(Start: 21 @63349 has 37 MA's), (24, 63301), (25, 63286), (28, 63271), (32, 63232), (33, 63229),

Gene: Necrophoxinus_125 Start: 63328, Stop: 63170, Start Num: 21

Candidate Starts for Necrophoxinus_125:

(12, 63412), (16, 63385), (19, 63343), (Start: 21 @63328 has 37 MA's), (23, 63289), (25, 63265), (29, 63238), (30, 63226), (34, 63187),

Gene: Necrophoxinus_9 Start: 3085, Stop: 2927, Start Num: 21

Candidate Starts for Necrophoxinus_9:

(12, 3169), (16, 3142), (19, 3100), (Start: 21 @3085 has 37 MA's), (23, 3046), (25, 3022), (29, 2995), (30, 2983), (34, 2944),

Gene: OlinDD_118 Start: 62866, Stop: 62708, Start Num: 21

Candidate Starts for OlinDD_118:

(8, 63088), (10, 62983), (11, 62977), (Start: 15 @62926 has 5 MA's), (Start: 21 @62866 has 37 MA's), (23, 62827), (27, 62791), (28, 62788), (29, 62776), (30, 62764), (33, 62743),

Gene: OlinDD_7 Start: 2961, Stop: 2743, Start Num: 15

Candidate Starts for OlinDD_7:

(7, 3189), (8, 3123), (10, 3018), (11, 3012), (Start: 15 @2961 has 5 MA's), (Start: 21 @2901 has 37 MA's), (23, 2862), (27, 2826), (28, 2823), (29, 2811), (30, 2799), (33, 2778),

Gene: Pavlo_119 Start: 63348, Stop: 63193, Start Num: 21

Candidate Starts for Pavlo_119:

(Start: 21 @63348 has 37 MA's), (23, 63309), (26, 63276), (28, 63270), (29, 63258), (30, 63246), (31, 63237),

Gene: Pavlo_7 Start: 3092, Stop: 2937, Start Num: 21

Candidate Starts for Pavlo_7:

(Start: 21 @3092 has 37 MA's), (23, 3053), (26, 3020), (28, 3014), (29, 3002), (30, 2990), (31, 2981),

Gene: PhillyPhilly_118 Start: 62607, Stop: 62452, Start Num: 21

Candidate Starts for PhillyPhilly_118:

(Start: 21 @62607 has 37 MA's), (23, 62568), (26, 62535), (28, 62529), (29, 62517), (30, 62505), (31, 62496),

Gene: PhillyPhilly_8 Start: 3118, Stop: 2963, Start Num: 21

Candidate Starts for PhillyPhilly_8:

(Start: 21 @3118 has 37 MA's), (23, 3079), (26, 3046), (28, 3040), (29, 3028), (30, 3016), (31, 3007),

Gene: Pioneer3_7 Start: 2994, Stop: 2776, Start Num: 15

Candidate Starts for Pioneer3_7:

(6, 3249), (7, 3222), (8, 3156), (10, 3051), (11, 3045), (Start: 15 @2994 has 5 MA's), (Start: 21 @2934 has 37 MA's), (23, 2895), (27, 2859), (28, 2856), (29, 2844), (30, 2832), (33, 2811),

Gene: Pioneer3_118 Start: 62697, Stop: 62539, Start Num: 21

Candidate Starts for Pioneer3_118:

(8, 62919), (10, 62814), (11, 62808), (Start: 15 @62757 has 5 MA's), (Start: 21 @62697 has 37 MA's), (23, 62658), (27, 62622), (28, 62619), (29, 62607), (30, 62595), (33, 62574),

Gene: Platte_7 Start: 2923, Stop: 2765, Start Num: 21

Candidate Starts for Platte_7:

(7, 3211), (8, 3145), (10, 3040), (11, 3034), (Start: 15 @2983 has 5 MA's), (Start: 21 @2923 has 37 MA's), (23, 2884), (27, 2848), (28, 2845), (29, 2833), (30, 2821), (33, 2800),

Gene: Platte_117 Start: 62471, Stop: 62313, Start Num: 21

Candidate Starts for Platte_117:

(8, 62693), (10, 62588), (11, 62582), (Start: 15 @62531 has 5 MA's), (Start: 21 @62471 has 37 MA's), (23, 62432), (27, 62396), (28, 62393), (29, 62381), (30, 62369), (33, 62348),

Gene: Roman_123 Start: 63997, Stop: 63842, Start Num: 21

Candidate Starts for Roman_123:

(Start: 21 @63997 has 37 MA's), (23, 63958), (26, 63925), (28, 63919), (29, 63907), (30, 63895), (31, 63886),

Gene: Roman_7 Start: 2910, Stop: 2755, Start Num: 21

Candidate Starts for Roman_7:

(Start: 21 @2910 has 37 MA's), (23, 2871), (26, 2838), (28, 2832), (29, 2820), (30, 2808), (31, 2799),

Gene: RunningBrook_128 Start: 63668, Stop: 63513, Start Num: 21

Candidate Starts for RunningBrook_128:

(Start: 21 @63668 has 37 MA's), (25, 63605), (28, 63590), (31, 63557), (32, 63551),

Gene: RunningBrook_10 Start: 3578, Stop: 3423, Start Num: 21

Candidate Starts for RunningBrook_10:

(Start: 21 @3578 has 37 MA's), (25, 3515), (28, 3500), (31, 3467), (32, 3461),

Gene: StevieWelch_10 Start: 3469, Stop: 3314, Start Num: 21

Candidate Starts for StevieWelch_10:

(Start: 21 @3469 has 37 MA's), (25, 3406), (28, 3391), (30, 3367), (32, 3352), (33, 3349),

Gene: StevieWelch_128 Start: 63715, Stop: 63560, Start Num: 21

Candidate Starts for StevieWelch_128:

(Start: 21 @63715 has 37 MA's), (25, 63652), (28, 63637), (30, 63613), (32, 63598), (33, 63595),

Gene: Tandem_118 Start: 62871, Stop: 62713, Start Num: 21

Candidate Starts for Tandem_118:

(8, 63093), (10, 62988), (Start: 15 @62931 has 5 MA's), (Start: 21 @62871 has 37 MA's), (23, 62832), (27, 62796), (28, 62793), (29, 62781), (30, 62769), (33, 62748),

Gene: Tandem_7 Start: 3088, Stop: 2870, Start Num: 15

Candidate Starts for Tandem_7:

(7, 3316), (8, 3250), (10, 3145), (Start: 15 @3088 has 5 MA's), (Start: 21 @3028 has 37 MA's), (23, 2989), (27, 2953), (28, 2950), (29, 2938), (30, 2926), (33, 2905),

Gene: Welcome_127 Start: 63695, Stop: 63540, Start Num: 21

Candidate Starts for Welcome_127:

(Start: 21 @63695 has 37 MA's), (25, 63632), (28, 63617), (30, 63593), (32, 63578),

Gene: Welcome_10 Start: 3551, Stop: 3396, Start Num: 21

Candidate Starts for Welcome_10:

(Start: 21 @3551 has 37 MA's), (25, 3488), (28, 3473), (30, 3449), (32, 3434),

Gene: Wolfstar_8 Start: 3487, Stop: 3335, Start Num: 21

Candidate Starts for Wolfstar_8:

(14, 3553), (17, 3541), (18, 3526), (20, 3490), (Start: 21 @3487 has 37 MA's), (22, 3469), (25, 3424), (28, 3409), (30, 3385),

Gene: Wolfstar_124 Start: 64628, Stop: 64476, Start Num: 21

Candidate Starts for Wolfstar_124:

(14, 64694), (17, 64682), (18, 64667), (20, 64631), (Start: 21 @64628 has 37 MA's), (22, 64610), (25, 64565), (28, 64550), (30, 64526),

Gene: Yuma_123 Start: 62501, Stop: 62346, Start Num: 21

Candidate Starts for Yuma_123:

(Start: 21 @62501 has 37 MA's), (25, 62438), (28, 62423), (31, 62390), (32, 62384), (33, 62381),

Gene: Yuma_10 Start: 3450, Stop: 3295, Start Num: 21

Candidate Starts for Yuma_10:

(Start: 21 @3450 has 37 MA's), (25, 3387), (28, 3372), (31, 3339), (32, 3333), (33, 3330),