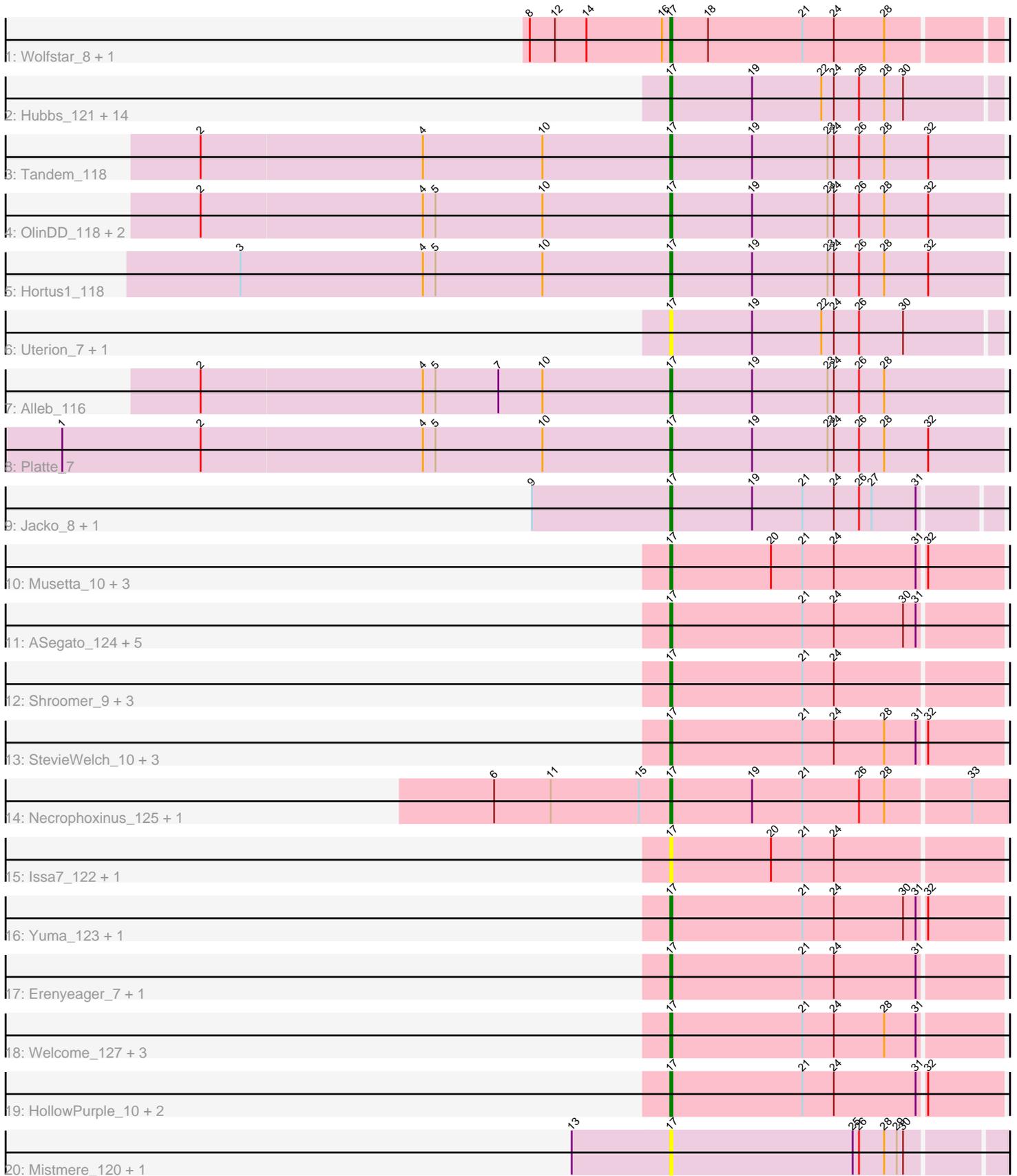


Pham 287898



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 287898 Report

This analysis was run 03/28/26 on database version 641.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 287898 has 63 members, 16 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, Saradis_7, Pavlo_119, Solimine_6, Lupine_117, PhillyPhilly_8, Lupine_7, DejaVu_123, Saradis_125, Pavlo_7, Roman_7
- Track 3 : Tandem_118
- Track 4 : OlinDD_118, Platte_117, Pioneer3_118
- Track 5 : Hortus1_118
- Track 6 : Uterion_7, Uterion_126
- Track 7 : Alleb_116
- Track 8 : Platte_7
- Track 9 : Jacko_8, Jacko_117
- Track 10 : Musetta_10, Lyell_125, Lyell_10, Musetta_123
- Track 11 : ASegato_124, ASegato_10, DustyDino_10, DustyDino_128, RunningBrook_9, RunningBrook_125
- Track 12 : Shroomer_9, Fork_7, Fork_119, Shroomer_128
- Track 13 : StevieWelch_10, Casablanacas_8, StevieWelch_128, Casablanacas_123
- Track 14 : Necrophoxinus_125, Necrophoxinus_9
- Track 15 : Issa7_122, Issa7_8
- Track 16 : Yuma_123, Yuma_10
- Track 17 : Erenyeager_7, Erenyeager_122
- Track 18 : Welcome_127, Welcome_10, Deschain_9, Deschain_123
- Track 19 : HollowPurple_10, HollowPurple_126, SteakFry_9
- Track 20 : Mistmere_120, Mistmere_8

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

The start number called the most often in the published annotations is 17, it was called in 47 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato_10, ASegato_124, Alleb_116, Casablanacas_123, Casablanacas_8, DejaVu_123, DejaVu_7, Deschain_123, Deschain_9, DustyDino_10, DustyDino_128, Erenyeager_122, Erenyeager_7, Fork_119, Fork_7, HollowPurple_10, HollowPurple_126, Hortus1_118, Hubbs_121, Hubbs_7, Issa7_122, Issa7_8, Jacko_117, Jacko_8, Lupine_117, Lupine_7, Lyell_10, Lyell_125, Mistmere_120, Mistmere_8, 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_125, RunningBrook_9, Saradis_125, Saradis_7, Shroomer_128, Shroomer_9, Solimine_6, SteakFry_9, StevieWelch_10, StevieWelch_128, Tandem_118, Uterion_126, Uterion_7, Welcome_10, Welcome_127, Wolfstar_124, Wolfstar_8, Yuma_10, Yuma_123,

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 17:

- Found in 63 of 63 (100.0%) of genes in pham
- Manual Annotations of this start: 47 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato_10 (ED2), ASegato_124 (ED2), Alleb_116 (ED1), Casablanacas_123 (ED2), Casablanacas_8 (ED2), DejaVu_123 (ED1), DejaVu_7 (ED1), Deschain_123 (ED2), Deschain_9 (ED2), DustyDino_10 (ED2), DustyDino_128 (ED2), Erenyeager_122 (ED2), Erenyeager_7 (ED2), Fork_119 (ED2), Fork_7 (ED2), HollowPurple_10 (ED2), HollowPurple_126 (ED2), Hortus1_118 (ED1), Hubbs_121 (ED1), Hubbs_7 (ED1), Issa7_122 (ED2), Issa7_8 (ED2), Jacko_117 (ED1), Jacko_8 (ED1), Lupine_117 (ED1), Lupine_7 (ED1), Lyell_10 (ED2), Lyell_125 (ED2), Mistmere_120 (ED3), Mistmere_8 (ED3), 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_125 (ED2), RunningBrook_9 (ED2), Saradis_125 (ED1), Saradis_7 (ED1), Shroomer_128 (ED2), Shroomer_9 (ED2), Solimine_6 (ED1), SteakFry_9 (ED2), StevieWelch_10 (ED2), StevieWelch_128 (ED2), Tandem_118 (ED1), Uterion_126 (ED1), Uterion_7 (ED1), Welcome_10 (ED2), Welcome_127 (ED2), Wolfstar_124 (ED), Wolfstar_8 (ED), Yuma_10 (ED2), Yuma_123 (ED2),

Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED3, ED1, ED,

Info for manual annotations of cluster ED:

- Start number 17 was manually annotated 2 times for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 17 was manually annotated 21 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 17 was manually annotated 24 times for cluster ED2.

Gene Information:

Gene: ASegato_124 Start: 62989, Stop: 62834, Start Num: 17

Candidate Starts for ASegato_124:

(Start: 17 @62989 has 47 MA's), (21, 62926), (24, 62911), (30, 62878), (31, 62872),

Gene: ASegato_10 Start: 3540, Stop: 3385, Start Num: 17

Candidate Starts for ASegato_10:

(Start: 17 @3540 has 47 MA's), (21, 3477), (24, 3462), (30, 3429), (31, 3423),

Gene: Alleb_116 Start: 62427, Stop: 62269, Start Num: 17

Candidate Starts for Alleb_116:

(2, 62649), (4, 62544), (5, 62538), (7, 62508), (10, 62487), (Start: 17 @62427 has 47 MA's), (19, 62388), (23, 62352), (24, 62349), (26, 62337), (28, 62325),

Gene: Casablanco_8 Start: 3366, Stop: 3211, Start Num: 17

Candidate Starts for Casablanco_8:

(Start: 17 @3366 has 47 MA's), (21, 3303), (24, 3288), (28, 3264), (31, 3249), (32, 3246),

Gene: Casablanco_123 Start: 62383, Stop: 62228, Start Num: 17

Candidate Starts for Casablanco_123:

(Start: 17 @62383 has 47 MA's), (21, 62320), (24, 62305), (28, 62281), (31, 62266), (32, 62263),

Gene: DejaVu_7 Start: 2697, Stop: 2542, Start Num: 17

Candidate Starts for DejaVu_7:

(Start: 17 @2697 has 47 MA's), (19, 2658), (22, 2625), (24, 2619), (26, 2607), (28, 2595), (30, 2586),

Gene: DejaVu_123 Start: 63077, Stop: 62922, Start Num: 17

Candidate Starts for DejaVu_123:

(Start: 17 @63077 has 47 MA's), (19, 63038), (22, 63005), (24, 62999), (26, 62987), (28, 62975), (30, 62966),

Gene: Deschain_9 Start: 3472, Stop: 3317, Start Num: 17

Candidate Starts for Deschain_9:

(Start: 17 @3472 has 47 MA's), (21, 3409), (24, 3394), (28, 3370), (31, 3355),

Gene: Deschain_123 Start: 63053, Stop: 62898, Start Num: 17

Candidate Starts for Deschain_123:

(Start: 17 @63053 has 47 MA's), (21, 62990), (24, 62975), (28, 62951), (31, 62936),

Gene: DustyDino_10 Start: 3578, Stop: 3423, Start Num: 17

Candidate Starts for DustyDino_10:

(Start: 17 @3578 has 47 MA's), (21, 3515), (24, 3500), (30, 3467), (31, 3461),

Gene: DustyDino_128 Start: 63668, Stop: 63513, Start Num: 17

Candidate Starts for DustyDino_128:

(Start: 17 @63668 has 47 MA's), (21, 63605), (24, 63590), (30, 63557), (31, 63551),

Gene: Erenyeager_7 Start: 2956, Stop: 2801, Start Num: 17
Candidate Starts for Erenyeager_7:
(Start: 17 @2956 has 47 MA's), (21, 2893), (24, 2878), (31, 2839),

Gene: Erenyeager_122 Start: 62617, Stop: 62462, Start Num: 17
Candidate Starts for Erenyeager_122:
(Start: 17 @62617 has 47 MA's), (21, 62554), (24, 62539), (31, 62500),

Gene: Fork_7 Start: 2844, Stop: 2689, Start Num: 17
Candidate Starts for Fork_7:
(Start: 17 @2844 has 47 MA's), (21, 2781), (24, 2766),

Gene: Fork_119 Start: 61835, Stop: 61680, Start Num: 17
Candidate Starts for Fork_119:
(Start: 17 @61835 has 47 MA's), (21, 61772), (24, 61757),

Gene: HollowPurple_10 Start: 3540, Stop: 3385, Start Num: 17
Candidate Starts for HollowPurple_10:
(Start: 17 @3540 has 47 MA's), (21, 3477), (24, 3462), (31, 3423), (32, 3420),

Gene: HollowPurple_126 Start: 63613, Stop: 63458, Start Num: 17
Candidate Starts for HollowPurple_126:
(Start: 17 @63613 has 47 MA's), (21, 63550), (24, 63535), (31, 63496), (32, 63493),

Gene: Hortus1_118 Start: 62861, Stop: 62703, Start Num: 17
Candidate Starts for Hortus1_118:
(3, 63065), (4, 62978), (5, 62972), (10, 62921), (Start: 17 @62861 has 47 MA's), (19, 62822), (23, 62786), (24, 62783), (26, 62771), (28, 62759), (32, 62738),

Gene: Hubbs_121 Start: 63600, Stop: 63445, Start Num: 17
Candidate Starts for Hubbs_121:
(Start: 17 @63600 has 47 MA's), (19, 63561), (22, 63528), (24, 63522), (26, 63510), (28, 63498), (30, 63489),

Gene: Hubbs_7 Start: 3201, Stop: 3046, Start Num: 17
Candidate Starts for Hubbs_7:
(Start: 17 @3201 has 47 MA's), (19, 3162), (22, 3129), (24, 3123), (26, 3111), (28, 3099), (30, 3090),

Gene: Issa7_122 Start: 62253, Stop: 62098, Start Num: 17
Candidate Starts for Issa7_122:
(Start: 17 @62253 has 47 MA's), (20, 62205), (21, 62190), (24, 62175),

Gene: Issa7_8 Start: 3095, Stop: 2940, Start Num: 17
Candidate Starts for Issa7_8:
(Start: 17 @3095 has 47 MA's), (20, 3047), (21, 3032), (24, 3017),

Gene: Jacko_8 Start: 2762, Stop: 2610, Start Num: 17
Candidate Starts for Jacko_8:
(9, 2828), (Start: 17 @2762 has 47 MA's), (19, 2723), (21, 2699), (24, 2684), (26, 2672), (27, 2666), (31, 2645),

Gene: Jacko_117 Start: 61155, Stop: 61003, Start Num: 17
Candidate Starts for Jacko_117:

(9, 61221), (Start: 17 @61155 has 47 MA's), (19, 61116), (21, 61092), (24, 61077), (26, 61065), (27, 61059), (31, 61038),

Gene: Lupine_117 Start: 62271, Stop: 62116, Start Num: 17

Candidate Starts for Lupine_117:

(Start: 17 @62271 has 47 MA's), (19, 62232), (22, 62199), (24, 62193), (26, 62181), (28, 62169), (30, 62160),

Gene: Lupine_7 Start: 2998, Stop: 2843, Start Num: 17

Candidate Starts for Lupine_7:

(Start: 17 @2998 has 47 MA's), (19, 2959), (22, 2926), (24, 2920), (26, 2908), (28, 2896), (30, 2887),

Gene: Lyell_125 Start: 62460, Stop: 62305, Start Num: 17

Candidate Starts for Lyell_125:

(Start: 17 @62460 has 47 MA's), (20, 62412), (21, 62397), (24, 62382), (31, 62343), (32, 62340),

Gene: Lyell_10 Start: 3293, Stop: 3138, Start Num: 17

Candidate Starts for Lyell_10:

(Start: 17 @3293 has 47 MA's), (20, 3245), (21, 3230), (24, 3215), (31, 3176), (32, 3173),

Gene: Mistmere_120 Start: 60261, Stop: 60106, Start Num: 17

Candidate Starts for Mistmere_120:

(13, 60297), (Start: 17 @60261 has 47 MA's), (25, 60174), (26, 60171), (28, 60159), (29, 60153), (30, 60150),

Gene: Mistmere_8 Start: 2660, Stop: 2505, Start Num: 17

Candidate Starts for Mistmere_8:

(13, 2696), (Start: 17 @2660 has 47 MA's), (25, 2573), (26, 2570), (28, 2558), (29, 2552), (30, 2549),

Gene: Musetta_10 Start: 3554, Stop: 3399, Start Num: 17

Candidate Starts for Musetta_10:

(Start: 17 @3554 has 47 MA's), (20, 3506), (21, 3491), (24, 3476), (31, 3437), (32, 3434),

Gene: Musetta_123 Start: 63349, Stop: 63194, Start Num: 17

Candidate Starts for Musetta_123:

(Start: 17 @63349 has 47 MA's), (20, 63301), (21, 63286), (24, 63271), (31, 63232), (32, 63229),

Gene: Necrophoxinus_125 Start: 63328, Stop: 63170, Start Num: 17

Candidate Starts for Necrophoxinus_125:

(6, 63412), (11, 63385), (15, 63343), (Start: 17 @63328 has 47 MA's), (19, 63289), (21, 63265), (26, 63238), (28, 63226), (33, 63187),

Gene: Necrophoxinus_9 Start: 3085, Stop: 2927, Start Num: 17

Candidate Starts for Necrophoxinus_9:

(6, 3169), (11, 3142), (15, 3100), (Start: 17 @3085 has 47 MA's), (19, 3046), (21, 3022), (26, 2995), (28, 2983), (33, 2944),

Gene: OlinDD_118 Start: 62866, Stop: 62708, Start Num: 17

Candidate Starts for OlinDD_118:

(2, 63088), (4, 62983), (5, 62977), (10, 62926), (Start: 17 @62866 has 47 MA's), (19, 62827), (23, 62791), (24, 62788), (26, 62776), (28, 62764), (32, 62743),

Gene: Pavlo_119 Start: 63348, Stop: 63193, Start Num: 17

Candidate Starts for Pavlo_119:

(Start: 17 @63348 has 47 MA's), (19, 63309), (22, 63276), (24, 63270), (26, 63258), (28, 63246), (30, 63237),

Gene: Pavlo_7 Start: 3092, Stop: 2937, Start Num: 17

Candidate Starts for Pavlo_7:

(Start: 17 @3092 has 47 MA's), (19, 3053), (22, 3020), (24, 3014), (26, 3002), (28, 2990), (30, 2981),

Gene: PhillyPhilly_118 Start: 62607, Stop: 62452, Start Num: 17

Candidate Starts for PhillyPhilly_118:

(Start: 17 @62607 has 47 MA's), (19, 62568), (22, 62535), (24, 62529), (26, 62517), (28, 62505), (30, 62496),

Gene: PhillyPhilly_8 Start: 3118, Stop: 2963, Start Num: 17

Candidate Starts for PhillyPhilly_8:

(Start: 17 @3118 has 47 MA's), (19, 3079), (22, 3046), (24, 3040), (26, 3028), (28, 3016), (30, 3007),

Gene: Pioneer3_118 Start: 62697, Stop: 62539, Start Num: 17

Candidate Starts for Pioneer3_118:

(2, 62919), (4, 62814), (5, 62808), (10, 62757), (Start: 17 @62697 has 47 MA's), (19, 62658), (23, 62622), (24, 62619), (26, 62607), (28, 62595), (32, 62574),

Gene: Platte_7 Start: 2923, Stop: 2765, Start Num: 17

Candidate Starts for Platte_7:

(1, 3211), (2, 3145), (4, 3040), (5, 3034), (10, 2983), (Start: 17 @2923 has 47 MA's), (19, 2884), (23, 2848), (24, 2845), (26, 2833), (28, 2821), (32, 2800),

Gene: Platte_117 Start: 62471, Stop: 62313, Start Num: 17

Candidate Starts for Platte_117:

(2, 62693), (4, 62588), (5, 62582), (10, 62531), (Start: 17 @62471 has 47 MA's), (19, 62432), (23, 62396), (24, 62393), (26, 62381), (28, 62369), (32, 62348),

Gene: Roman_123 Start: 63997, Stop: 63842, Start Num: 17

Candidate Starts for Roman_123:

(Start: 17 @63997 has 47 MA's), (19, 63958), (22, 63925), (24, 63919), (26, 63907), (28, 63895), (30, 63886),

Gene: Roman_7 Start: 2910, Stop: 2755, Start Num: 17

Candidate Starts for Roman_7:

(Start: 17 @2910 has 47 MA's), (19, 2871), (22, 2838), (24, 2832), (26, 2820), (28, 2808), (30, 2799),

Gene: RunningBrook_9 Start: 3578, Stop: 3423, Start Num: 17

Candidate Starts for RunningBrook_9:

(Start: 17 @3578 has 47 MA's), (21, 3515), (24, 3500), (30, 3467), (31, 3461),

Gene: RunningBrook_125 Start: 63668, Stop: 63513, Start Num: 17

Candidate Starts for RunningBrook_125:

(Start: 17 @63668 has 47 MA's), (21, 63605), (24, 63590), (30, 63557), (31, 63551),

Gene: Saradis_7 Start: 2965, Stop: 2810, Start Num: 17

Candidate Starts for Saradis_7:

(Start: 17 @2965 has 47 MA's), (19, 2926), (22, 2893), (24, 2887), (26, 2875), (28, 2863), (30, 2854),

Gene: Saradis_125 Start: 63342, Stop: 63187, Start Num: 17
Candidate Starts for Saradis_125:
(Start: 17 @63342 has 47 MA's), (19, 63303), (22, 63270), (24, 63264), (26, 63252), (28, 63240), (30, 63231),

Gene: Shroomer_9 Start: 2907, Stop: 2752, Start Num: 17
Candidate Starts for Shroomer_9:
(Start: 17 @2907 has 47 MA's), (21, 2844), (24, 2829),

Gene: Shroomer_128 Start: 62970, Stop: 62815, Start Num: 17
Candidate Starts for Shroomer_128:
(Start: 17 @62970 has 47 MA's), (21, 62907), (24, 62892),

Gene: Solimine_6 Start: 2706, Stop: 2551, Start Num: 17
Candidate Starts for Solimine_6:
(Start: 17 @2706 has 47 MA's), (19, 2667), (22, 2634), (24, 2628), (26, 2616), (28, 2604), (30, 2595),

Gene: SteakFry_9 Start: 3540, Stop: 3385, Start Num: 17
Candidate Starts for SteakFry_9:
(Start: 17 @3540 has 47 MA's), (21, 3477), (24, 3462), (31, 3423), (32, 3420),

Gene: StevieWelch_10 Start: 3469, Stop: 3314, Start Num: 17
Candidate Starts for StevieWelch_10:
(Start: 17 @3469 has 47 MA's), (21, 3406), (24, 3391), (28, 3367), (31, 3352), (32, 3349),

Gene: StevieWelch_128 Start: 63715, Stop: 63560, Start Num: 17
Candidate Starts for StevieWelch_128:
(Start: 17 @63715 has 47 MA's), (21, 63652), (24, 63637), (28, 63613), (31, 63598), (32, 63595),

Gene: Tandem_118 Start: 62871, Stop: 62713, Start Num: 17
Candidate Starts for Tandem_118:
(2, 63093), (4, 62988), (10, 62931), (Start: 17 @62871 has 47 MA's), (19, 62832), (23, 62796), (24, 62793), (26, 62781), (28, 62769), (32, 62748),

Gene: Uterion_7 Start: 3230, Stop: 3075, Start Num: 17
Candidate Starts for Uterion_7:
(Start: 17 @3230 has 47 MA's), (19, 3191), (22, 3158), (24, 3152), (26, 3140), (30, 3119),

Gene: Uterion_126 Start: 63321, Stop: 63166, Start Num: 17
Candidate Starts for Uterion_126:
(Start: 17 @63321 has 47 MA's), (19, 63282), (22, 63249), (24, 63243), (26, 63231), (30, 63210),

Gene: Welcome_127 Start: 63695, Stop: 63540, Start Num: 17
Candidate Starts for Welcome_127:
(Start: 17 @63695 has 47 MA's), (21, 63632), (24, 63617), (28, 63593), (31, 63578),

Gene: Welcome_10 Start: 3551, Stop: 3396, Start Num: 17
Candidate Starts for Welcome_10:
(Start: 17 @3551 has 47 MA's), (21, 3488), (24, 3473), (28, 3449), (31, 3434),

Gene: Wolfstar_8 Start: 3487, Stop: 3335, Start Num: 17
Candidate Starts for Wolfstar_8:

(8, 3553), (12, 3541), (14, 3526), (16, 3490), (Start: 17 @3487 has 47 MA's), (18, 3469), (21, 3424), (24, 3409), (28, 3385),

Gene: Wolfstar_124 Start: 64628, Stop: 64476, Start Num: 17

Candidate Starts for Wolfstar_124:

(8, 64694), (12, 64682), (14, 64667), (16, 64631), (Start: 17 @64628 has 47 MA's), (18, 64610), (21, 64565), (24, 64550), (28, 64526),

Gene: Yuma_123 Start: 62501, Stop: 62346, Start Num: 17

Candidate Starts for Yuma_123:

(Start: 17 @62501 has 47 MA's), (21, 62438), (24, 62423), (30, 62390), (31, 62384), (32, 62381),

Gene: Yuma_10 Start: 3450, Stop: 3295, Start Num: 17

Candidate Starts for Yuma_10:

(Start: 17 @3450 has 47 MA's), (21, 3387), (24, 3372), (30, 3339), (31, 3333), (32, 3330),