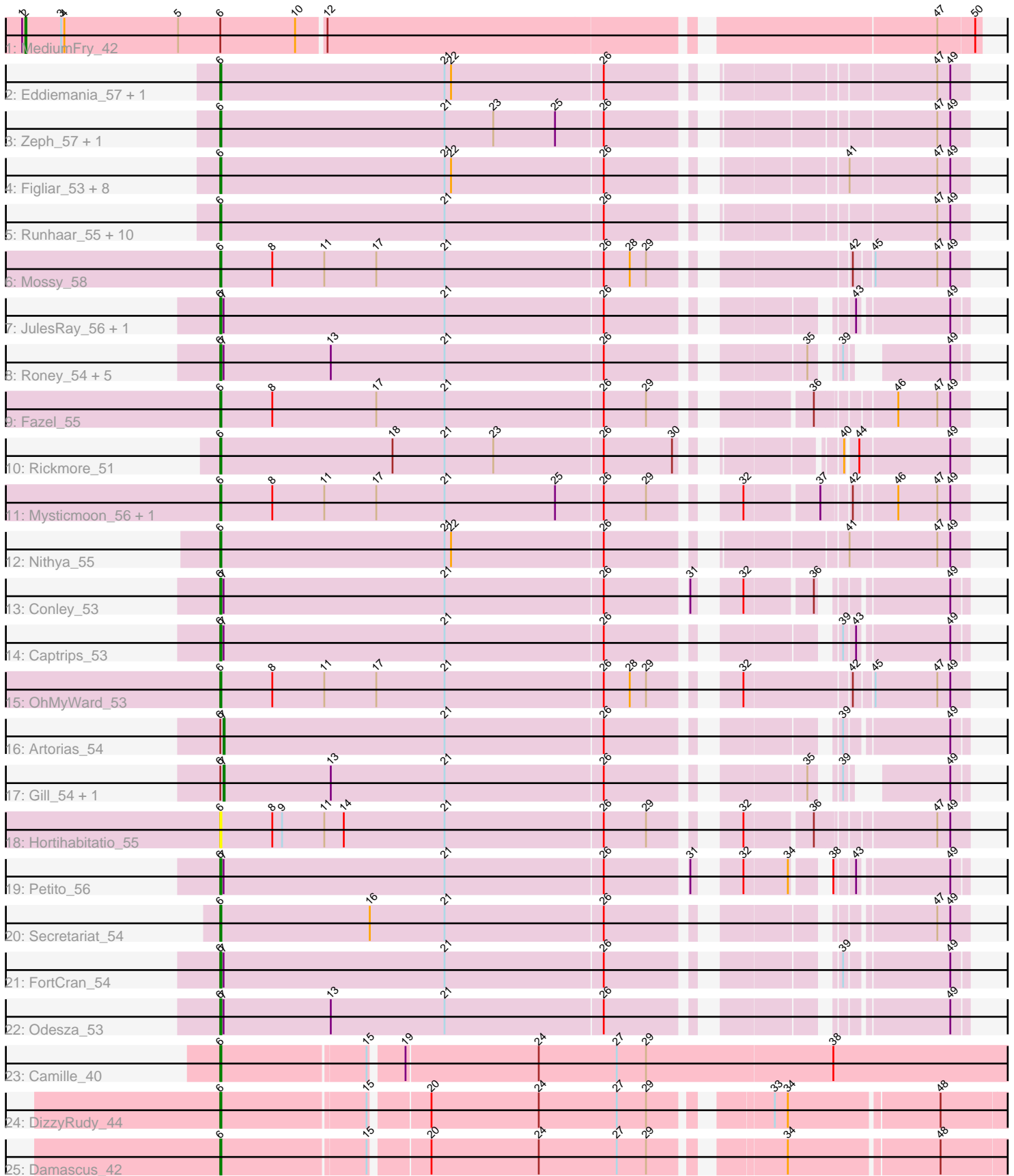


Pham 194070



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 194070 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194070 has 53 members, 7 are drafts.

Phages represented in each track:

- Track 1 : MediumFry_42
- Track 2 : Eddiemania_57, Kenosha_54
- Track 3 : Zeph_57, Arataki_51
- Track 4 : Figliar_53, Jodelie19_54, Duffington_53, Chikenjars_53, EndAve_56, AlainaMarie_54, OlgasClover_56, Aflac_54, TenaciousP_55
- Track 5 : Runhaar_55, Vardy_54, ShaggyRogers_58, Madvan_55, Burley_55, Crocheter_55, Hydrus_57, Phepper_56, Untouchable_56, Nadmeg_56, Gusicorn_57
- Track 6 : Mossy_58
- Track 7 : JulesRay_56, Avazak_55
- Track 8 : Roney_54, Tanis_54, Gravy_53, Copybara_54, Kerry_53, NoPickles_53
- Track 9 : Fazel_55
- Track 10 : Rickmore_51
- Track 11 : Mysticmoon_56, Pherobrine_56
- Track 12 : Nithya_55
- Track 13 : Conley_53
- Track 14 : Captrips_53
- Track 15 : OhMyWard_53
- Track 16 : Artorias_54
- Track 17 : Gill_54, Magel_55
- Track 18 : Hortihabitatio_55
- Track 19 : Petite_56
- Track 20 : Secretariat_54
- Track 21 : FortCran_54
- Track 22 : Odesza_53
- Track 23 : Camille_40
- Track 24 : DizzyRudy_44
- Track 25 : Damascus_42

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

The start number called the most often in the published annotations is 6, it was called in 42 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_54, AlainaMarie_54, Arataki_51, Avazak_55, Burley_55, Camille_40, Captrips_53, Capybara_54, Chikenjars_53, Conley_53, Crocheter_55, Damascus_42, DizzyRudy_44, Duffington_53, Eddiemania_57, EndAve_56, Fazel_55, Figliar_53, FortCran_54, Gravy_53, Gusicorn_57, Hortihabitatio_55, Hydrus_57, Jodelie19_54, JulesRay_56, Kenosha_54, Kerry_53, Madvan_55, Mossy_58, Mysticmoon_56, Nadmeg_56, Nithya_55, NoPickles_53, Odesza_53, OhMyWard_53, OlgasClover_56, Petite_56, Phepper_56, Pherobrine_56, Rickmore_51, Roney_54, Runhaar_55, Secretariat_54, ShaggyRogers_58, Tanis_54, TenaciousP_55, Untouchable_56, Vardy_54, Zeph_57,

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

- Artorias_54, Gill_54, Magel_55, MediumFry_42,

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

-

Summary by start number:

Start 2:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MediumFry_42 (AU4),

Start 6:

- Found in 53 of 53 (100.0%) of genes in pham
- Manual Annotations of this start: 42 of 46
- Called 92.5% of time when present
- Phage (with cluster) where this start called: Aflac_54 (DJ), AlainaMarie_54 (DJ), Arataki_51 (DJ), Avazak_55 (DJ), Burley_55 (DJ), Camille_40 (EL), Captrips_53 (DJ), Capybara_54 (DJ), Chikenjars_53 (DJ), Conley_53 (DJ), Crocheter_55 (DJ), Damascus_42 (EL), DizzyRudy_44 (EL), Duffington_53 (DJ), Eddiemania_57 (DJ), EndAve_56 (DJ), Fazel_55 (DJ), Figliar_53 (DJ), FortCran_54 (DJ), Gravy_53 (DJ), Gusicorn_57 (DJ), Hortihabitatio_55 (DJ), Hydrus_57 (DJ), Jodelie19_54 (DJ), JulesRay_56 (DJ), Kenosha_54 (DJ), Kerry_53 (DJ), Madvan_55 (DJ), Mossy_58 (DJ), Mysticmoon_56 (DJ), Nadmeg_56 (DJ), Nithya_55 (DJ), NoPickles_53 (DJ), Odesza_53 (DJ), OhMyWard_53 (DJ), OlgasClover_56 (DJ), Petite_56 (DJ), Phepper_56 (DJ), Pherobrine_56 (DJ), Rickmore_51 (DJ), Roney_54 (DJ), Runhaar_55 (DJ), Secretariat_54 (DJ), ShaggyRogers_58 (DJ), Tanis_54 (DJ), TenaciousP_55 (DJ), Untouchable_56 (DJ), Vardy_54 (DJ), Zeph_57 (DJ),

Start 7:

- Found in 16 of 53 (30.2%) of genes in pham
- Manual Annotations of this start: 3 of 46
- Called 18.8% of time when present
- Phage (with cluster) where this start called: Artorias_54 (DJ), Gill_54 (DJ), Magel_55 (DJ),

Summary by clusters:

There are 3 clusters represented in this pham: EL, DJ, AU4,

Info for manual annotations of cluster AU4:

- Start number 2 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster DJ:

- Start number 6 was manually annotated 39 times for cluster DJ.
- Start number 7 was manually annotated 3 times for cluster DJ.

Info for manual annotations of cluster EL:

- Start number 6 was manually annotated 3 times for cluster EL.

Gene Information:

Gene: Aflac_54 Start: 37624, Stop: 38262, Start Num: 6

Candidate Starts for Aflac_54:

(Start: 6 @37624 has 42 MA's), (21, 37831), (22, 37837), (26, 37975), (41, 38155), (47, 38233), (49, 38245),

Gene: AlainaMarie_54 Start: 37610, Stop: 38248, Start Num: 6

Candidate Starts for AlainaMarie_54:

(Start: 6 @37610 has 42 MA's), (21, 37817), (22, 37823), (26, 37961), (41, 38141), (47, 38219), (49, 38231),

Gene: Arataki_51 Start: 36745, Stop: 37380, Start Num: 6

Candidate Starts for Arataki_51:

(Start: 6 @36745 has 42 MA's), (21, 36952), (23, 36997), (25, 37054), (26, 37096), (47, 37351), (49, 37363),

Gene: Artorias_54 Start: 36960, Stop: 37574, Start Num: 7

Candidate Starts for Artorias_54:

(Start: 6 @36957 has 42 MA's), (Start: 7 @36960 has 3 MA's), (21, 37164), (26, 37308), (39, 37473), (49, 37560),

Gene: Avazak_55 Start: 37284, Stop: 37901, Start Num: 6

Candidate Starts for Avazak_55:

(Start: 6 @37284 has 42 MA's), (Start: 7 @37287 has 3 MA's), (21, 37491), (26, 37635), (43, 37809), (49, 37887),

Gene: Burley_55 Start: 37396, Stop: 38031, Start Num: 6

Candidate Starts for Burley_55:

(Start: 6 @37396 has 42 MA's), (21, 37603), (26, 37747), (47, 38002), (49, 38014),

Gene: Camille_40 Start: 28210, Stop: 28920, Start Num: 6

Candidate Starts for Camille_40:

(Start: 6 @28210 has 42 MA's), (15, 28339), (19, 28366), (24, 28486), (27, 28558), (29, 28585), (38, 28756),

Gene: Captrips_53 Start: 36432, Stop: 37049, Start Num: 6

Candidate Starts for Captrips_53:

(Start: 6 @36432 has 42 MA's), (Start: 7 @36435 has 3 MA's), (21, 36639), (26, 36783), (39, 36948), (43, 36957), (49, 37035),

Gene: Capybara_54 Start: 36783, Stop: 37382, Start Num: 6

Candidate Starts for Capybara_54:

(Start: 6 @36783 has 42 MA's), (Start: 7 @36786 has 3 MA's), (13, 36885), (21, 36990), (26, 37134), (35, 37284), (39, 37299), (49, 37368),

Gene: Chikenjars_53 Start: 37622, Stop: 38260, Start Num: 6

Candidate Starts for Chikenjars_53:

(Start: 6 @37622 has 42 MA's), (21, 37829), (22, 37835), (26, 37973), (41, 38153), (47, 38231), (49, 38243),

Gene: Conley_53 Start: 37570, Stop: 38184, Start Num: 6

Candidate Starts for Conley_53:

(Start: 6 @37570 has 42 MA's), (Start: 7 @37573 has 3 MA's), (21, 37777), (26, 37921), (31, 37990), (32, 38017), (36, 38074), (49, 38170),

Gene: Crocheter_55 Start: 37792, Stop: 38427, Start Num: 6

Candidate Starts for Crocheter_55:

(Start: 6 @37792 has 42 MA's), (21, 37999), (26, 38143), (47, 38398), (49, 38410),

Gene: Damascus_42 Start: 29644, Stop: 30312, Start Num: 6

Candidate Starts for Damascus_42:

(Start: 6 @29644 has 42 MA's), (15, 29773), (20, 29821), (24, 29920), (27, 29992), (29, 30019), (34, 30118), (48, 30250),

Gene: DizzyRudy_44 Start: 29531, Stop: 30199, Start Num: 6

Candidate Starts for DizzyRudy_44:

(Start: 6 @29531 has 42 MA's), (15, 29660), (20, 29708), (24, 29807), (27, 29879), (29, 29906), (33, 29993), (34, 30005), (48, 30137),

Gene: Duffington_53 Start: 37317, Stop: 37955, Start Num: 6

Candidate Starts for Duffington_53:

(Start: 6 @37317 has 42 MA's), (21, 37524), (22, 37530), (26, 37668), (41, 37848), (47, 37926), (49, 37938),

Gene: Eddiemania_57 Start: 38537, Stop: 39172, Start Num: 6

Candidate Starts for Eddiemania_57:

(Start: 6 @38537 has 42 MA's), (21, 38744), (22, 38750), (26, 38888), (47, 39143), (49, 39155),

Gene: EndAve_56 Start: 37790, Stop: 38428, Start Num: 6

Candidate Starts for EndAve_56:

(Start: 6 @37790 has 42 MA's), (21, 37997), (22, 38003), (26, 38141), (41, 38321), (47, 38399), (49, 38411),

Gene: Fazel_55 Start: 37262, Stop: 37894, Start Num: 6

Candidate Starts for Fazel_55:

(Start: 6 @37262 has 42 MA's), (8, 37310), (17, 37406), (21, 37469), (26, 37613), (29, 37652), (36, 37766), (46, 37829), (47, 37865), (49, 37877),

Gene: Figliar_53 Start: 37692, Stop: 38330, Start Num: 6

Candidate Starts for Figliar_53:

(Start: 6 @37692 has 42 MA's), (21, 37899), (22, 37905), (26, 38043), (41, 38223), (47, 38301), (49, 38313),

Gene: FortCran_54 Start: 36957, Stop: 37574, Start Num: 6

Candidate Starts for FortCran_54:

(Start: 6 @36957 has 42 MA's), (Start: 7 @36960 has 3 MA's), (21, 37164), (26, 37308), (39, 37473), (49, 37560),

Gene: Gill_54 Start: 36803, Stop: 37399, Start Num: 7

Candidate Starts for Gill_54:

(Start: 6 @36800 has 42 MA's), (Start: 7 @36803 has 3 MA's), (13, 36902), (21, 37007), (26, 37151), (35, 37301), (39, 37316), (49, 37385),

Gene: Gravy_53 Start: 36473, Stop: 37072, Start Num: 6

Candidate Starts for Gravy_53:

(Start: 6 @36473 has 42 MA's), (Start: 7 @36476 has 3 MA's), (13, 36575), (21, 36680), (26, 36824), (35, 36974), (39, 36989), (49, 37058),

Gene: Gusicorn_57 Start: 37709, Stop: 38344, Start Num: 6

Candidate Starts for Gusicorn_57:

(Start: 6 @37709 has 42 MA's), (21, 37916), (26, 38060), (47, 38315), (49, 38327),

Gene: Hortihabitatio_55 Start: 37498, Stop: 38130, Start Num: 6

Candidate Starts for Hortihabitatio_55:

(Start: 6 @37498 has 42 MA's), (8, 37546), (9, 37555), (11, 37594), (14, 37612), (21, 37705), (26, 37849), (29, 37888), (32, 37945), (36, 38002), (47, 38101), (49, 38113),

Gene: Hydrus_57 Start: 38564, Stop: 39199, Start Num: 6

Candidate Starts for Hydrus_57:

(Start: 6 @38564 has 42 MA's), (21, 38771), (26, 38915), (47, 39170), (49, 39182),

Gene: Jodelie19_54 Start: 39096, Stop: 39734, Start Num: 6

Candidate Starts for Jodelie19_54:

(Start: 6 @39096 has 42 MA's), (21, 39303), (22, 39309), (26, 39447), (41, 39627), (47, 39705), (49, 39717),

Gene: JulesRay_56 Start: 36966, Stop: 37583, Start Num: 6

Candidate Starts for JulesRay_56:

(Start: 6 @36966 has 42 MA's), (Start: 7 @36969 has 3 MA's), (21, 37173), (26, 37317), (43, 37491), (49, 37569),

Gene: Kenosha_54 Start: 38023, Stop: 38658, Start Num: 6

Candidate Starts for Kenosha_54:

(Start: 6 @38023 has 42 MA's), (21, 38230), (22, 38236), (26, 38374), (47, 38629), (49, 38641),

Gene: Kerry_53 Start: 36473, Stop: 37072, Start Num: 6

Candidate Starts for Kerry_53:

(Start: 6 @36473 has 42 MA's), (Start: 7 @36476 has 3 MA's), (13, 36575), (21, 36680), (26, 36824), (35, 36974), (39, 36989), (49, 37058),

Gene: Madvan_55 Start: 37433, Stop: 38068, Start Num: 6

Candidate Starts for Madvan_55:

(Start: 6 @37433 has 42 MA's), (21, 37640), (26, 37784), (47, 38039), (49, 38051),

Gene: Magel_55 Start: 36719, Stop: 37315, Start Num: 7

Candidate Starts for Magel_55:

(Start: 6 @36716 has 42 MA's), (Start: 7 @36719 has 3 MA's), (13, 36818), (21, 36923), (26, 37067), (35, 37217), (39, 37232), (49, 37301),

Gene: MediumFry_42 Start: 32492, Stop: 33331, Start Num: 2

Candidate Starts for MediumFry_42:

(1, 32489), (Start: 2 @32492 has 1 MA's), (3, 32525), (4, 32528), (5, 32633), (Start: 6 @32672 has 42 MA's), (10, 32741), (12, 32765), (47, 33293), (50, 33326),

Gene: Mossy_58 Start: 39452, Stop: 40093, Start Num: 6

Candidate Starts for Mossy_58:

(Start: 6 @39452 has 42 MA's), (8, 39500), (11, 39548), (17, 39596), (21, 39659), (26, 39803), (28, 39827), (29, 39842), (42, 39992), (45, 40007), (47, 40064), (49, 40076),

Gene: Mysticmoon_56 Start: 38307, Stop: 38939, Start Num: 6

Candidate Starts for Mysticmoon_56:

(Start: 6 @38307 has 42 MA's), (8, 38355), (11, 38403), (17, 38451), (21, 38514), (25, 38616), (26, 38658), (29, 38697), (32, 38754), (37, 38817), (42, 38838), (46, 38874), (47, 38910), (49, 38922),

Gene: Nadmeg_56 Start: 38679, Stop: 39314, Start Num: 6

Candidate Starts for Nadmeg_56:

(Start: 6 @38679 has 42 MA's), (21, 38886), (26, 39030), (47, 39285), (49, 39297),

Gene: Nithya_55 Start: 37534, Stop: 38172, Start Num: 6

Candidate Starts for Nithya_55:

(Start: 6 @37534 has 42 MA's), (21, 37741), (22, 37747), (26, 37885), (41, 38065), (47, 38143), (49, 38155),

Gene: NoPickles_53 Start: 36138, Stop: 36737, Start Num: 6

Candidate Starts for NoPickles_53:

(Start: 6 @36138 has 42 MA's), (Start: 7 @36141 has 3 MA's), (13, 36240), (21, 36345), (26, 36489), (35, 36639), (39, 36654), (49, 36723),

Gene: Odesza_53 Start: 36528, Stop: 37145, Start Num: 6

Candidate Starts for Odesza_53:

(Start: 6 @36528 has 42 MA's), (Start: 7 @36531 has 3 MA's), (13, 36630), (21, 36735), (26, 36879), (49, 37131),

Gene: OhMyWard_53 Start: 38645, Stop: 39286, Start Num: 6

Candidate Starts for OhMyWard_53:

(Start: 6 @38645 has 42 MA's), (8, 38693), (11, 38741), (17, 38789), (21, 38852), (26, 38996), (28, 39020), (29, 39035), (32, 39092), (42, 39185), (45, 39200), (47, 39257), (49, 39269),

Gene: OlgasClover_56 Start: 38677, Stop: 39315, Start Num: 6

Candidate Starts for OlgasClover_56:

(Start: 6 @38677 has 42 MA's), (21, 38884), (22, 38890), (26, 39028), (41, 39208), (47, 39286), (49, 39298),

Gene: Petite_56 Start: 38630, Stop: 39244, Start Num: 6

Candidate Starts for Petite_56:

(Start: 6 @38630 has 42 MA's), (Start: 7 @38633 has 3 MA's), (21, 38837), (26, 38981), (31, 39050), (32, 39077), (34, 39116), (38, 39137), (43, 39152), (49, 39230),

Gene: Phepper_56 Start: 37695, Stop: 38330, Start Num: 6

Candidate Starts for Phepper_56:

(Start: 6 @37695 has 42 MA's), (21, 37902), (26, 38046), (47, 38301), (49, 38313),

Gene: Pherobrine_56 Start: 38600, Stop: 39232, Start Num: 6

Candidate Starts for Pherobrine_56:

(Start: 6 @38600 has 42 MA's), (8, 38648), (11, 38696), (17, 38744), (21, 38807), (25, 38909), (26, 38951), (29, 38990), (32, 39047), (37, 39110), (42, 39131), (46, 39167), (47, 39203), (49, 39215),

Gene: Rickmore_51 Start: 35485, Stop: 36111, Start Num: 6

Candidate Starts for Rickmore_51:

(Start: 6 @35485 has 42 MA's), (18, 35644), (21, 35692), (23, 35737), (26, 35836), (30, 35899), (40, 36004), (44, 36013), (49, 36094),

Gene: Roney_54 Start: 36826, Stop: 37425, Start Num: 6

Candidate Starts for Roney_54:

(Start: 6 @36826 has 42 MA's), (Start: 7 @36829 has 3 MA's), (13, 36928), (21, 37033), (26, 37177), (35, 37327), (39, 37342), (49, 37411),

Gene: Runhaar_55 Start: 37495, Stop: 38130, Start Num: 6

Candidate Starts for Runhaar_55:

(Start: 6 @37495 has 42 MA's), (21, 37702), (26, 37846), (47, 38101), (49, 38113),

Gene: Secretariat_54 Start: 36535, Stop: 37155, Start Num: 6

Candidate Starts for Secretariat_54:

(Start: 6 @36535 has 42 MA's), (16, 36673), (21, 36742), (26, 36886), (47, 37126), (49, 37138),

Gene: ShaggyRogers_58 Start: 37445, Stop: 38080, Start Num: 6

Candidate Starts for ShaggyRogers_58:

(Start: 6 @37445 has 42 MA's), (21, 37652), (26, 37796), (47, 38051), (49, 38063),

Gene: Tanis_54 Start: 36646, Stop: 37245, Start Num: 6

Candidate Starts for Tanis_54:

(Start: 6 @36646 has 42 MA's), (Start: 7 @36649 has 3 MA's), (13, 36748), (21, 36853), (26, 36997), (35, 37147), (39, 37162), (49, 37231),

Gene: TenaciousP_55 Start: 39058, Stop: 39696, Start Num: 6

Candidate Starts for TenaciousP_55:

(Start: 6 @39058 has 42 MA's), (21, 39265), (22, 39271), (26, 39409), (41, 39589), (47, 39667), (49, 39679),

Gene: Untouchable_56 Start: 38044, Stop: 38679, Start Num: 6

Candidate Starts for Untouchable_56:

(Start: 6 @38044 has 42 MA's), (21, 38251), (26, 38395), (47, 38650), (49, 38662),

Gene: Vardy_54 Start: 37385, Stop: 38020, Start Num: 6

Candidate Starts for Vardy_54:

(Start: 6 @37385 has 42 MA's), (21, 37592), (26, 37736), (47, 37991), (49, 38003),

Gene: Zeph_57 Start: 38532, Stop: 39167, Start Num: 6

Candidate Starts for Zeph_57:

(Start: 6 @38532 has 42 MA's), (21, 38739), (23, 38784), (25, 38841), (26, 38883), (47, 39138), (49, 39150),