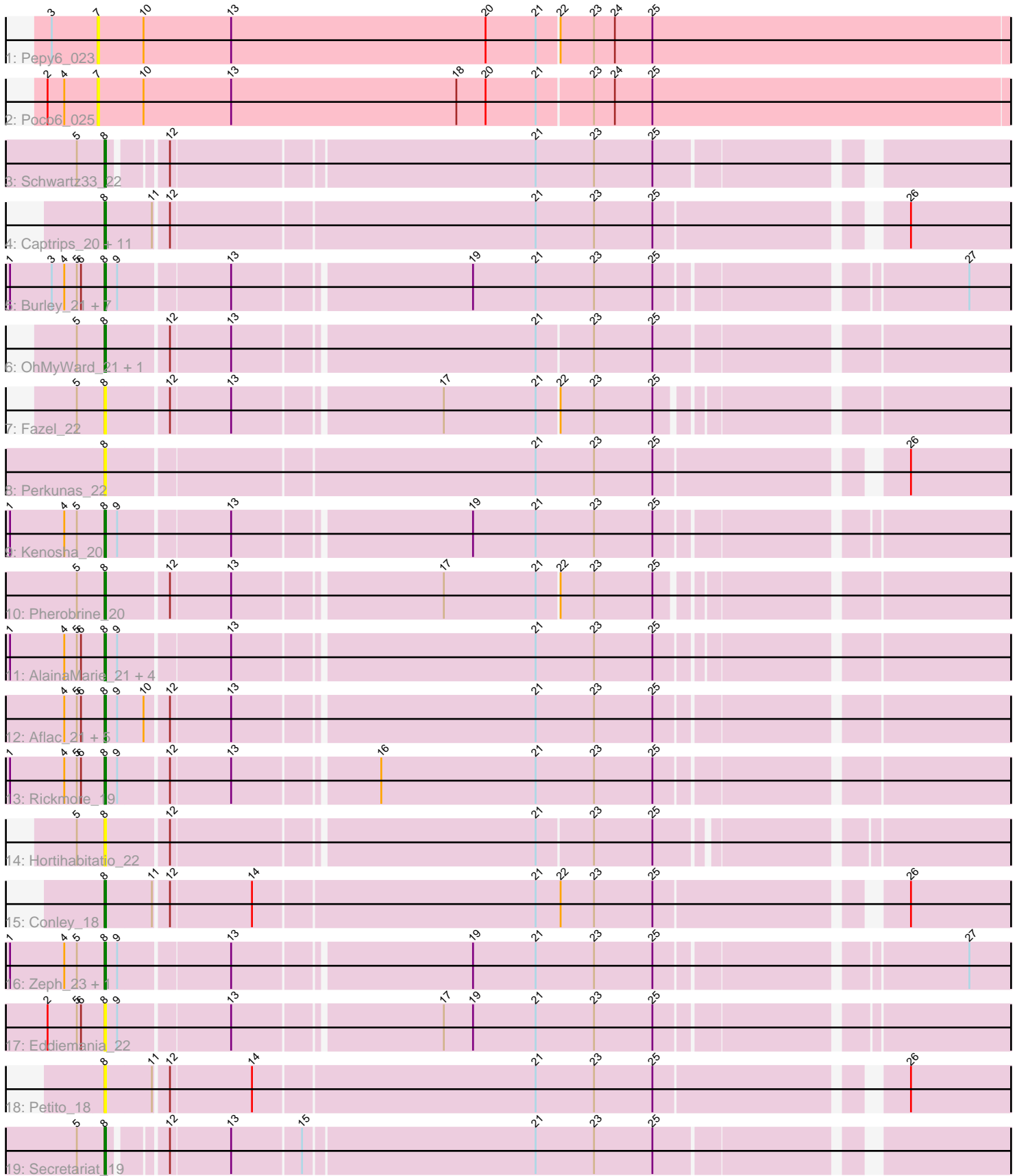


Pham 86024



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 86024 Report

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

Pham number 86024 has 48 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Pepy6_023
- Track 2 : Poco6_025
- Track 3 : Schwartz33_22
- Track 4 : Captrips_20, Avazak_18, Kerry_18, Roney_18, FortCran_22, Gill_18, Artorias_18, Cappybara_18, Tanis_18, Gravy_18, Odesza_18, Magel_18
- Track 5 : Burley_21, Phepper_21, Untouchable_20, Nadmeg_21, Crocheter_20, Runhaar_21, Madvan_22, Vardy_21
- Track 6 : OhMyWard_21, Mossy_22
- Track 7 : Fazel_22
- Track 8 : Perkunas_22
- Track 9 : Kenosha_20
- Track 10 : Pherobrine_20
- Track 11 : AlainaMarie_21, Nithya_21, Chickenjars_21, EndAve_21, Duffington_21
- Track 12 : Aflac_21, Jodelie19_21, BluerMoon_23, Figliar_21, OlgasClover_21, TenaciousP_23
- Track 13 : Rickmore_19
- Track 14 : Hortihabitatio_22
- Track 15 : Conley_18
- Track 16 : Zeph_23, Hydrus_22
- Track 17 : Eddiemania_22
- Track 18 : Petito_18
- Track 19 : Secretariat_19

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

The start number called the most often in the published annotations is 8, it was called in 34 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_21, AlainaMarie_21, Artorias_18, Avazak_18, BluerMoon_23, Burley_21, Captrips_20, Cappybara_18, Chickenjars_21, Conley_18, Crocheter_20, Duffington_21, Eddiemania_22, EndAve_21, Fazel_22, Figliar_21, FortCran_22, Gill_18, Gravy_18, Hortihabitatio_22, Hydrus_22, Jodelie19_21, Kenosha_20, Kerry_18, Madvan_22, Magel_18, Mossy_22, Nadmeg_21, Nithya_21, Odesza_18, OhMyWard_21,

OlgasClover_21, Perkunas_22, Petite_18, Phepper_21, Pherobrine_20, Rickmore_19, Roney_18, Runhaar_21, Schwartz33_22, Secretariat_19, Tanis_18, TenaciousP_23, Untouchable_20, Vardy_21, Zeph_23,

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

-

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

- Pepy6_023, Poco6_025,

Summary by start number:

Start 7:

- Found in 2 of 48 (4.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pepy6_023 (CC), Poco6_025 (CC),

Start 8:

- Found in 46 of 48 (95.8%) of genes in pham
- Manual Annotations of this start: 34 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aflac_21 (DJ), AlainaMarie_21 (DJ), Artorias_18 (DJ), Avazak_18 (DJ), BluerMoon_23 (DJ), Burley_21 (DJ), Captrips_20 (DJ), Copybara_18 (DJ), Chikenjars_21 (DJ), Conley_18 (DJ), Crocheter_20 (DJ), Duffington_21 (DJ), Eddiemania_22 (DJ), EndAve_21 (DJ), Fazel_22 (DJ), Figliar_21 (DJ), FortCran_22 (DJ), Gill_18 (DJ), Gravy_18 (DJ), Hortihabitatio_22 (DJ), Hydrus_22 (DJ), Jodelie19_21 (DJ), Kenosha_20 (DJ), Kerry_18 (DJ), Madvan_22 (DJ), Magel_18 (DJ), Mossy_22 (DJ), Nadmeg_21 (DJ), Nithya_21 (DJ), Odesza_18 (DJ), OhMyWard_21 (DJ), OlgasClover_21 (DJ), Perkunas_22 (DJ), Petite_18 (DJ), Phepper_21 (DJ), Pherobrine_20 (DJ), Rickmore_19 (DJ), Roney_18 (DJ), Runhaar_21 (DJ), Schwartz33_22 (DJ), Secretariat_19 (DJ), Tanis_18 (DJ), TenaciousP_23 (DJ), Untouchable_20 (DJ), Vardy_21 (DJ), Zeph_23 (DJ),

Summary by clusters:

There are 2 clusters represented in this pham: CC, DJ,

Info for manual annotations of cluster DJ:

- Start number 8 was manually annotated 34 times for cluster DJ.

Gene Information:

Gene: Aflac_21 Start: 15031, Stop: 15642, Start Num: 8

Candidate Starts for Aflac_21:

(4, 15004), (5, 15013), (6, 15016), (Start: 8 @15031 has 34 MA's), (9, 15040), (10, 15058), (12, 15073), (13, 15115), (21, 15322), (23, 15364), (25, 15406),

Gene: AlainaMarie_21 Start: 15021, Stop: 15629, Start Num: 8

Candidate Starts for AlainaMarie_21:

(1, 14955), (4, 14994), (5, 15003), (6, 15006), (Start: 8 @15021 has 34 MA's), (9, 15030), (13, 15105), (21, 15312), (23, 15354), (25, 15396),

Gene: Artorias_18 Start: 12367, Stop: 12981, Start Num: 8

Candidate Starts for Artorias_18:

(Start: 8 @12367 has 34 MA's), (11, 12400), (12, 12409), (21, 12664), (23, 12706), (25, 12748), (26, 12907),

Gene: Avazak_18 Start: 12374, Stop: 12988, Start Num: 8

Candidate Starts for Avazak_18:

(Start: 8 @12374 has 34 MA's), (11, 12407), (12, 12416), (21, 12671), (23, 12713), (25, 12755), (26, 12914),

Gene: BluerMoon_23 Start: 15025, Stop: 15636, Start Num: 8

Candidate Starts for BluerMoon_23:

(4, 14998), (5, 15007), (6, 15010), (Start: 8 @15025 has 34 MA's), (9, 15034), (10, 15052), (12, 15067), (13, 15109), (21, 15316), (23, 15358), (25, 15400),

Gene: Burley_21 Start: 14783, Stop: 15391, Start Num: 8

Candidate Starts for Burley_21:

(1, 14717), (3, 14747), (4, 14756), (5, 14765), (6, 14768), (Start: 8 @14783 has 34 MA's), (9, 14792), (13, 14867), (19, 15029), (21, 15074), (23, 15116), (25, 15158), (27, 15362),

Gene: Captrips_20 Start: 12374, Stop: 12988, Start Num: 8

Candidate Starts for Captrips_20:

(Start: 8 @12374 has 34 MA's), (11, 12407), (12, 12416), (21, 12671), (23, 12713), (25, 12755), (26, 12914),

Gene: Capybara_18 Start: 12093, Stop: 12707, Start Num: 8

Candidate Starts for Capybara_18:

(Start: 8 @12093 has 34 MA's), (11, 12126), (12, 12135), (21, 12390), (23, 12432), (25, 12474), (26, 12633),

Gene: Chikenjars_21 Start: 15021, Stop: 15632, Start Num: 8

Candidate Starts for Chikenjars_21:

(1, 14955), (4, 14994), (5, 15003), (6, 15006), (Start: 8 @15021 has 34 MA's), (9, 15030), (13, 15105), (21, 15312), (23, 15354), (25, 15396),

Gene: Conley_18 Start: 12391, Stop: 13005, Start Num: 8

Candidate Starts for Conley_18:

(Start: 8 @12391 has 34 MA's), (11, 12424), (12, 12433), (14, 12490), (21, 12688), (22, 12706), (23, 12730), (25, 12772), (26, 12931),

Gene: Crocheter_20 Start: 13743, Stop: 14351, Start Num: 8

Candidate Starts for Crocheter_20:

(1, 13677), (3, 13707), (4, 13716), (5, 13725), (6, 13728), (Start: 8 @13743 has 34 MA's), (9, 13752), (13, 13827), (19, 13989), (21, 14034), (23, 14076), (25, 14118), (27, 14322),

Gene: Duffington_21 Start: 15006, Stop: 15617, Start Num: 8

Candidate Starts for Duffington_21:

(1, 14940), (4, 14979), (5, 14988), (6, 14991), (Start: 8 @15006 has 34 MA's), (9, 15015), (13, 15090), (21, 15297), (23, 15339), (25, 15381),

Gene: Eddiemania_22 Start: 15695, Stop: 16303, Start Num: 8

Candidate Starts for Eddiemania_22:

(2, 15656), (5, 15677), (6, 15680), (Start: 8 @15695 has 34 MA's), (9, 15704), (13, 15779), (17, 15920), (19, 15941), (21, 15986), (23, 16028), (25, 16070),

Gene: EndAve_21 Start: 15021, Stop: 15632, Start Num: 8

Candidate Starts for EndAve_21:

(1, 14955), (4, 14994), (5, 15003), (6, 15006), (Start: 8 @15021 has 34 MA's), (9, 15030), (13, 15105), (21, 15312), (23, 15354), (25, 15396),

Gene: Fazel_22 Start: 14076, Stop: 14681, Start Num: 8

Candidate Starts for Fazel_22:

(5, 14058), (Start: 8 @14076 has 34 MA's), (12, 14118), (13, 14160), (17, 14301), (21, 14367), (22, 14382), (23, 14406), (25, 14448),

Gene: Figliar_21 Start: 15031, Stop: 15642, Start Num: 8

Candidate Starts for Figliar_21:

(4, 15004), (5, 15013), (6, 15016), (Start: 8 @15031 has 34 MA's), (9, 15040), (10, 15058), (12, 15073), (13, 15115), (21, 15322), (23, 15364), (25, 15406),

Gene: FortCran_22 Start: 12367, Stop: 12981, Start Num: 8

Candidate Starts for FortCran_22:

(Start: 8 @12367 has 34 MA's), (11, 12400), (12, 12409), (21, 12664), (23, 12706), (25, 12748), (26, 12907),

Gene: Gill_18 Start: 12093, Stop: 12707, Start Num: 8

Candidate Starts for Gill_18:

(Start: 8 @12093 has 34 MA's), (11, 12126), (12, 12135), (21, 12390), (23, 12432), (25, 12474), (26, 12633),

Gene: Gravy_18 Start: 12093, Stop: 12707, Start Num: 8

Candidate Starts for Gravy_18:

(Start: 8 @12093 has 34 MA's), (11, 12126), (12, 12135), (21, 12390), (23, 12432), (25, 12474), (26, 12633),

Gene: Hortihabitatio_22 Start: 14447, Stop: 15052, Start Num: 8

Candidate Starts for Hortihabitatio_22:

(5, 14429), (Start: 8 @14447 has 34 MA's), (12, 14489), (21, 14738), (23, 14777), (25, 14819),

Gene: Hydrus_22 Start: 15565, Stop: 16173, Start Num: 8

Candidate Starts for Hydrus_22:

(1, 15499), (4, 15538), (5, 15547), (Start: 8 @15565 has 34 MA's), (9, 15574), (13, 15649), (19, 15811), (21, 15856), (23, 15898), (25, 15940), (27, 16144),

Gene: Jodelie19_21 Start: 15025, Stop: 15636, Start Num: 8

Candidate Starts for Jodelie19_21:

(4, 14998), (5, 15007), (6, 15010), (Start: 8 @15025 has 34 MA's), (9, 15034), (10, 15052), (12, 15067), (13, 15109), (21, 15316), (23, 15358), (25, 15400),

Gene: Kenosha_20 Start: 14166, Stop: 14774, Start Num: 8

Candidate Starts for Kenosha_20:

(1, 14100), (4, 14139), (5, 14148), (Start: 8 @14166 has 34 MA's), (9, 14175), (13, 14250), (19, 14412), (21, 14457), (23, 14499), (25, 14541),

Gene: Kerry_18 Start: 12093, Stop: 12707, Start Num: 8

Candidate Starts for Kerry_18:

(Start: 8 @12093 has 34 MA's), (11, 12126), (12, 12135), (21, 12390), (23, 12432), (25, 12474), (26, 12633),

Gene: Madvan_22 Start: 14816, Stop: 15424, Start Num: 8

Candidate Starts for Madvan_22:

(1, 14750), (3, 14780), (4, 14789), (5, 14798), (6, 14801), (Start: 8 @14816 has 34 MA's), (9, 14825), (13, 14900), (19, 15062), (21, 15107), (23, 15149), (25, 15191), (27, 15395),

Gene: Magel_18 Start: 12093, Stop: 12707, Start Num: 8

Candidate Starts for Magel_18:

(Start: 8 @12093 has 34 MA's), (11, 12126), (12, 12135), (21, 12390), (23, 12432), (25, 12474), (26, 12633),

Gene: Mossy_22 Start: 16236, Stop: 16850, Start Num: 8

Candidate Starts for Mossy_22:

(5, 16218), (Start: 8 @16236 has 34 MA's), (12, 16278), (13, 16320), (21, 16527), (23, 16566), (25, 16608),

Gene: Nadmeg_21 Start: 14817, Stop: 15425, Start Num: 8

Candidate Starts for Nadmeg_21:

(1, 14751), (3, 14781), (4, 14790), (5, 14799), (6, 14802), (Start: 8 @14817 has 34 MA's), (9, 14826), (13, 14901), (19, 15063), (21, 15108), (23, 15150), (25, 15192), (27, 15396),

Gene: Nithya_21 Start: 15021, Stop: 15629, Start Num: 8

Candidate Starts for Nithya_21:

(1, 14955), (4, 14994), (5, 15003), (6, 15006), (Start: 8 @15021 has 34 MA's), (9, 15030), (13, 15105), (21, 15312), (23, 15354), (25, 15396),

Gene: Odesza_18 Start: 12093, Stop: 12707, Start Num: 8

Candidate Starts for Odesza_18:

(Start: 8 @12093 has 34 MA's), (11, 12126), (12, 12135), (21, 12390), (23, 12432), (25, 12474), (26, 12633),

Gene: OhMyWard_21 Start: 15558, Stop: 16172, Start Num: 8

Candidate Starts for OhMyWard_21:

(5, 15540), (Start: 8 @15558 has 34 MA's), (12, 15600), (13, 15642), (21, 15849), (23, 15888), (25, 15930),

Gene: OlgasClover_21 Start: 15754, Stop: 16365, Start Num: 8

Candidate Starts for OlgasClover_21:

(4, 15727), (5, 15736), (6, 15739), (Start: 8 @15754 has 34 MA's), (9, 15763), (10, 15781), (12, 15796), (13, 15838), (21, 16045), (23, 16087), (25, 16129),

Gene: Pepy6_023 Start: 21319, Stop: 21969, Start Num: 7

Candidate Starts for Pepy6_023:

(3, 21286), (7, 21319), (10, 21352), (13, 21415), (20, 21598), (21, 21634), (22, 21649), (23, 21673), (24, 21688), (25, 21715),

Gene: Perkunas_22 Start: 12889, Stop: 13503, Start Num: 8

Candidate Starts for Perkunas_22:

(Start: 8 @12889 has 34 MA's), (21, 13186), (23, 13228), (25, 13270), (26, 13429),

Gene: Petito_18 Start: 12584, Stop: 13198, Start Num: 8

Candidate Starts for Petito_18:

(Start: 8 @12584 has 34 MA's), (11, 12617), (12, 12626), (14, 12683), (21, 12881), (23, 12923), (25, 12965), (26, 13124),

Gene: Phepper_21 Start: 14815, Stop: 15423, Start Num: 8

Candidate Starts for Phepper_21:

(1, 14749), (3, 14779), (4, 14788), (5, 14797), (6, 14800), (Start: 8 @14815 has 34 MA's), (9, 14824), (13, 14899), (19, 15061), (21, 15106), (23, 15148), (25, 15190), (27, 15394),

Gene: Pherobrine_20 Start: 14848, Stop: 15453, Start Num: 8

Candidate Starts for Pherobrine_20:

(5, 14830), (Start: 8 @14848 has 34 MA's), (12, 14890), (13, 14932), (17, 15073), (21, 15139), (22, 15154), (23, 15178), (25, 15220),

Gene: Poco6_025 Start: 23341, Stop: 23991, Start Num: 7

Candidate Starts for Poco6_025:

(2, 23305), (4, 23317), (7, 23341), (10, 23374), (13, 23437), (18, 23599), (20, 23620), (21, 23656), (23, 23695), (24, 23710), (25, 23737),

Gene: Rickmore_19 Start: 13040, Stop: 13651, Start Num: 8

Candidate Starts for Rickmore_19:

(1, 12974), (4, 13013), (5, 13022), (6, 13025), (Start: 8 @13040 has 34 MA's), (9, 13049), (12, 13082), (13, 13124), (16, 13220), (21, 13331), (23, 13373), (25, 13415),

Gene: Roney_18 Start: 12093, Stop: 12707, Start Num: 8

Candidate Starts for Roney_18:

(Start: 8 @12093 has 34 MA's), (11, 12126), (12, 12135), (21, 12390), (23, 12432), (25, 12474), (26, 12633),

Gene: Runhaar_21 Start: 14817, Stop: 15425, Start Num: 8

Candidate Starts for Runhaar_21:

(1, 14751), (3, 14781), (4, 14790), (5, 14799), (6, 14802), (Start: 8 @14817 has 34 MA's), (9, 14826), (13, 14901), (19, 15063), (21, 15108), (23, 15150), (25, 15192), (27, 15396),

Gene: Schwartz33_22 Start: 15138, Stop: 15734, Start Num: 8

Candidate Starts for Schwartz33_22:

(5, 15120), (Start: 8 @15138 has 34 MA's), (12, 15171), (21, 15423), (23, 15465), (25, 15507),

Gene: Secretariat_19 Start: 13878, Stop: 14474, Start Num: 8

Candidate Starts for Secretariat_19:

(5, 13860), (Start: 8 @13878 has 34 MA's), (12, 13911), (13, 13953), (15, 14001), (21, 14163), (23, 14205), (25, 14247),

Gene: Tanis_18 Start: 11943, Stop: 12557, Start Num: 8

Candidate Starts for Tanis_18:

(Start: 8 @11943 has 34 MA's), (11, 11976), (12, 11985), (21, 12240), (23, 12282), (25, 12324), (26, 12483),

Gene: TenaciousP_23 Start: 15025, Stop: 15636, Start Num: 8

Candidate Starts for TenaciousP_23:

(4, 14998), (5, 15007), (6, 15010), (Start: 8 @15025 has 34 MA's), (9, 15034), (10, 15052), (12, 15067), (13, 15109), (21, 15316), (23, 15358), (25, 15400),

Gene: Untouchable_20 Start: 13742, Stop: 14350, Start Num: 8

Candidate Starts for Untouchable_20:

(1, 13676), (3, 13706), (4, 13715), (5, 13724), (6, 13727), (Start: 8 @13742 has 34 MA's), (9, 13751), (13, 13826), (19, 13988), (21, 14033), (23, 14075), (25, 14117), (27, 14321),

Gene: Vardy_21 Start: 14782, Stop: 15390, Start Num: 8

Candidate Starts for Vardy_21:

(1, 14716), (3, 14746), (4, 14755), (5, 14764), (6, 14767), (Start: 8 @14782 has 34 MA's), (9, 14791), (13, 14866), (19, 15028), (21, 15073), (23, 15115), (25, 15157), (27, 15361),

Gene: Zeph_23 Start: 15547, Stop: 16155, Start Num: 8

Candidate Starts for Zeph_23:

(1, 15481), (4, 15520), (5, 15529), (Start: 8 @15547 has 34 MA's), (9, 15556), (13, 15631), (19, 15793), (21, 15838), (23, 15880), (25, 15922), (27, 16126),