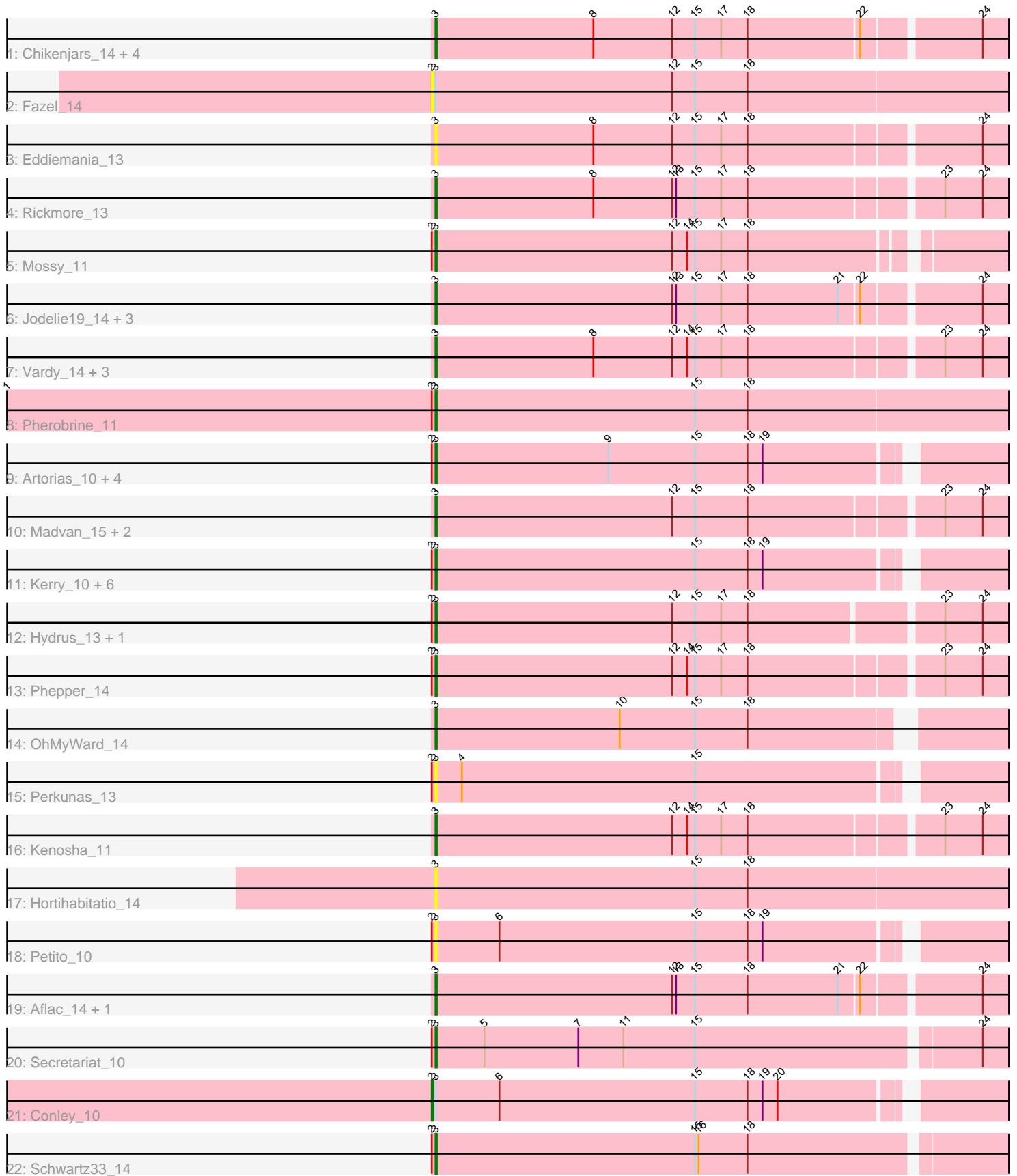


Pham 86054



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 86054 Report

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

Pham number 86054 has 46 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Chickenjars_14, Duffington_14, EndAve_14, Nithya_14, AlainaMarie_14
- Track 2 : Fazel_14
- Track 3 : Eddiemania_13
- Track 4 : Rickmore_13
- Track 5 : Mossy_11
- Track 6 : Jodelie19_14, OlgasClover_14, TenaciousP_16, BluerMoon_16
- Track 7 : Vardy_14, Runhaar_14, Burley_14, Nadmeg_14
- Track 8 : Pherobrine_11
- Track 9 : Artorias_10, Gill_10, Captrips_12, Avazak_10, FortCran_14
- Track 10 : Madvan_15, Crocheter_13, Untouchable_13
- Track 11 : Kerry_10, Roney_10, Tanis_10, Cappybara_10, Gravy_10, Odesza_10, Magel_10
- Track 12 : Hydrus_13, Zeph_14
- Track 13 : Phepper_14
- Track 14 : OhMyWard_14
- Track 15 : Perkunas_13
- Track 16 : Kenosha_11
- Track 17 : Hortihabitatio_14
- Track 18 : Petito_10
- Track 19 : Aflac_14, Figliar_14
- Track 20 : Secretariat_10
- Track 21 : Conley_10
- Track 22 : Schwartz33_14

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

The start number called the most often in the published annotations is 3, it was called in 33 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_14, AlainaMarie_14, Artorias_10, Avazak_10, BluerMoon_16, Burley_14, Captrips_12, Cappybara_10, Chickenjars_14, Crocheter_13, Duffington_14, Eddiemania_13, EndAve_14, Figliar_14, FortCran_14, Gill_10, Gravy_10, Hortihabitatio_14, Hydrus_13, Jodelie19_14, Kenosha_11, Kerry_10, Madvan_15,

Magel_10, Mossy_11, Nadmeg_14, Nithya_14, Odesza_10, OhMyWard_14, OlgasClover_14, Perkunas_13, Petito_10, Phepper_14, Pherobrine_11, Rickmore_13, Roney_10, Runhaar_14, Schwartz33_14, Secretariat_10, Tanis_10, TenaciousP_16, Untouchable_13, Vardy_14, Zeph_14,

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

- Conley_10, Fazel_14,

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

-

Summary by start number:

Start 2:

- Found in 23 of 46 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 8.7% of time when present
- Phage (with cluster) where this start called: Conley_10 (DJ), Fazel_14 (DJ),

Start 3:

- Found in 46 of 46 (100.0%) of genes in pham
- Manual Annotations of this start: 33 of 34
- Called 95.7% of time when present
- Phage (with cluster) where this start called: Aflac_14 (DJ), AlainaMarie_14 (DJ), Artorias_10 (DJ), Avazak_10 (DJ), BluerMoon_16 (DJ), Burley_14 (DJ), Captrips_12 (DJ), Copybara_10 (DJ), Chikenjars_14 (DJ), Crocheter_13 (DJ), Duffington_14 (DJ), Eddiemania_13 (DJ), EndAve_14 (DJ), Figliar_14 (DJ), FortCran_14 (DJ), Gill_10 (DJ), Gravy_10 (DJ), Hortihabitatio_14 (DJ), Hydrus_13 (DJ), Jodelie19_14 (DJ), Kenosha_11 (DJ), Kerry_10 (DJ), Madvan_15 (DJ), Magel_10 (DJ), Mossy_11 (DJ), Nadmeg_14 (DJ), Nithya_14 (DJ), Odesza_10 (DJ), OhMyWard_14 (DJ), OlgasClover_14 (DJ), Perkunas_13 (DJ), Petito_10 (DJ), Phepper_14 (DJ), Pherobrine_11 (DJ), Rickmore_13 (DJ), Roney_10 (DJ), Runhaar_14 (DJ), Schwartz33_14 (DJ), Secretariat_10 (DJ), Tanis_10 (DJ), TenaciousP_16 (DJ), Untouchable_13 (DJ), Vardy_14 (DJ), Zeph_14 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 2 was manually annotated 1 time for cluster DJ.
- Start number 3 was manually annotated 33 times for cluster DJ.

Gene Information:

Gene: Aflac_14 Start: 7939, Stop: 8382, Start Num: 3

Candidate Starts for Aflac_14:

(Start: 3 @7939 has 33 MA's), (12, 8128), (13, 8131), (15, 8146), (18, 8188), (21, 8260), (22, 8275), (24, 8362),

Gene: AlainaMarie_14 Start: 7929, Stop: 8372, Start Num: 3

Candidate Starts for AlainaMarie_14:

(Start: 3 @7929 has 33 MA's), (8, 8055), (12, 8118), (15, 8136), (17, 8157), (18, 8178), (22, 8265), (24, 8352),

Gene: Artorias_10 Start: 5085, Stop: 5519, Start Num: 3

Candidate Starts for Artorias_10:

(Start: 2 @5082 has 1 MA's), (Start: 3 @5085 has 33 MA's), (9, 5223), (15, 5292), (18, 5334), (19, 5346),

Gene: Avazak_10 Start: 5088, Stop: 5522, Start Num: 3

Candidate Starts for Avazak_10:

(Start: 2 @5085 has 1 MA's), (Start: 3 @5088 has 33 MA's), (9, 5226), (15, 5295), (18, 5337), (19, 5349),

Gene: BluerMoon_16 Start: 7933, Stop: 8376, Start Num: 3

Candidate Starts for BluerMoon_16:

(Start: 3 @7933 has 33 MA's), (12, 8122), (13, 8125), (15, 8140), (17, 8161), (18, 8182), (21, 8254), (22, 8269), (24, 8356),

Gene: Burley_14 Start: 7730, Stop: 8173, Start Num: 3

Candidate Starts for Burley_14:

(Start: 3 @7730 has 33 MA's), (8, 7856), (12, 7919), (14, 7931), (15, 7937), (17, 7958), (18, 7979), (23, 8123), (24, 8153),

Gene: Captrips_12 Start: 5088, Stop: 5522, Start Num: 3

Candidate Starts for Captrips_12:

(Start: 2 @5085 has 1 MA's), (Start: 3 @5088 has 33 MA's), (9, 5226), (15, 5295), (18, 5337), (19, 5349),

Gene: Capybara_10 Start: 4801, Stop: 5235, Start Num: 3

Candidate Starts for Capybara_10:

(Start: 2 @4798 has 1 MA's), (Start: 3 @4801 has 33 MA's), (15, 5008), (18, 5050), (19, 5062),

Gene: Chikenjars_14 Start: 7929, Stop: 8372, Start Num: 3

Candidate Starts for Chikenjars_14:

(Start: 3 @7929 has 33 MA's), (8, 8055), (12, 8118), (15, 8136), (17, 8157), (18, 8178), (22, 8265), (24, 8352),

Gene: Conley_10 Start: 5112, Stop: 5549, Start Num: 2

Candidate Starts for Conley_10:

(Start: 2 @5112 has 1 MA's), (Start: 3 @5115 has 33 MA's), (6, 5166), (15, 5322), (18, 5364), (19, 5376), (20, 5388),

Gene: Crocheter_13 Start: 6657, Stop: 7100, Start Num: 3

Candidate Starts for Crocheter_13:

(Start: 3 @6657 has 33 MA's), (12, 6846), (15, 6864), (18, 6906), (23, 7050), (24, 7080),

Gene: Duffington_14 Start: 7914, Stop: 8357, Start Num: 3

Candidate Starts for Duffington_14:

(Start: 3 @7914 has 33 MA's), (8, 8040), (12, 8103), (15, 8121), (17, 8142), (18, 8163), (22, 8250), (24, 8337),

Gene: Eddiemania_13 Start: 7122, Stop: 7565, Start Num: 3

Candidate Starts for Eddiemania_13:

(Start: 3 @7122 has 33 MA's), (8, 7248), (12, 7311), (15, 7329), (17, 7350), (18, 7371), (24, 7545),

Gene: EndAve_14 Start: 7929, Stop: 8372, Start Num: 3

Candidate Starts for EndAve_14:

(Start: 3 @7929 has 33 MA's), (8, 8055), (12, 8118), (15, 8136), (17, 8157), (18, 8178), (22, 8265), (24, 8352),

Gene: Fazel_14 Start: 6662, Stop: 7120, Start Num: 2

Candidate Starts for Fazel_14:

(Start: 2 @6662 has 1 MA's), (Start: 3 @6665 has 33 MA's), (12, 6854), (15, 6872), (18, 6914),

Gene: Figliar_14 Start: 7939, Stop: 8382, Start Num: 3

Candidate Starts for Figliar_14:

(Start: 3 @7939 has 33 MA's), (12, 8128), (13, 8131), (15, 8146), (18, 8188), (21, 8260), (22, 8275), (24, 8362),

Gene: FortCran_14 Start: 5085, Stop: 5519, Start Num: 3

Candidate Starts for FortCran_14:

(Start: 2 @5082 has 1 MA's), (Start: 3 @5085 has 33 MA's), (9, 5223), (15, 5292), (18, 5334), (19, 5346),

Gene: Gill_10 Start: 4801, Stop: 5235, Start Num: 3

Candidate Starts for Gill_10:

(Start: 2 @4798 has 1 MA's), (Start: 3 @4801 has 33 MA's), (9, 4939), (15, 5008), (18, 5050), (19, 5062),

Gene: Gravy_10 Start: 4801, Stop: 5235, Start Num: 3

Candidate Starts for Gravy_10:

(Start: 2 @4798 has 1 MA's), (Start: 3 @4801 has 33 MA's), (15, 5008), (18, 5050), (19, 5062),

Gene: Hortihabitatio_14 Start: 7024, Stop: 7479, Start Num: 3

Candidate Starts for Hortihabitatio_14:

(Start: 3 @7024 has 33 MA's), (15, 7231), (18, 7273),

Gene: Hydrus_13 Start: 6915, Stop: 7358, Start Num: 3

Candidate Starts for Hydrus_13:

(Start: 2 @6912 has 1 MA's), (Start: 3 @6915 has 33 MA's), (12, 7104), (15, 7122), (17, 7143), (18, 7164), (23, 7308), (24, 7338),

Gene: Jodelie19_14 Start: 7933, Stop: 8376, Start Num: 3

Candidate Starts for Jodelie19_14:

(Start: 3 @7933 has 33 MA's), (12, 8122), (13, 8125), (15, 8140), (17, 8161), (18, 8182), (21, 8254), (22, 8269), (24, 8356),

Gene: Kenosha_11 Start: 5516, Stop: 5959, Start Num: 3

Candidate Starts for Kenosha_11:

(Start: 3 @5516 has 33 MA's), (12, 5705), (14, 5717), (15, 5723), (17, 5744), (18, 5765), (23, 5909), (24, 5939),

Gene: Kerry_10 Start: 4801, Stop: 5235, Start Num: 3

Candidate Starts for Kerry_10:

(Start: 2 @4798 has 1 MA's), (Start: 3 @4801 has 33 MA's), (15, 5008), (18, 5050), (19, 5062),

Gene: Madvan_15 Start: 7730, Stop: 8173, Start Num: 3

Candidate Starts for Madvan_15:

(Start: 3 @7730 has 33 MA's), (12, 7919), (15, 7937), (18, 7979), (23, 8123), (24, 8153),

Gene: Magel_10 Start: 4801, Stop: 5235, Start Num: 3

Candidate Starts for Magel_10:

(Start: 2 @4798 has 1 MA's), (Start: 3 @4801 has 33 MA's), (15, 5008), (18, 5050), (19, 5062),

Gene: Mossy_11 Start: 5792, Stop: 6226, Start Num: 3

Candidate Starts for Mossy_11:

(Start: 2 @5789 has 1 MA's), (Start: 3 @5792 has 33 MA's), (12, 5981), (14, 5993), (15, 5999), (17, 6020), (18, 6041),

Gene: Nadmeg_14 Start: 7731, Stop: 8174, Start Num: 3

Candidate Starts for Nadmeg_14:

(Start: 3 @7731 has 33 MA's), (8, 7857), (12, 7920), (14, 7932), (15, 7938), (17, 7959), (18, 7980), (23, 8124), (24, 8154),

Gene: Nithya_14 Start: 7929, Stop: 8372, Start Num: 3

Candidate Starts for Nithya_14:

(Start: 3 @7929 has 33 MA's), (8, 8055), (12, 8118), (15, 8136), (17, 8157), (18, 8178), (22, 8265), (24, 8352),

Gene: Odesza_10 Start: 4801, Stop: 5235, Start Num: 3

Candidate Starts for Odesza_10:

(Start: 2 @4798 has 1 MA's), (Start: 3 @4801 has 33 MA's), (15, 5008), (18, 5050), (19, 5062),

Gene: OhMyWard_14 Start: 7730, Stop: 8164, Start Num: 3

Candidate Starts for OhMyWard_14:

(Start: 3 @7730 has 33 MA's), (10, 7877), (15, 7937), (18, 7979),

Gene: OlgasClover_14 Start: 7930, Stop: 8373, Start Num: 3

Candidate Starts for OlgasClover_14:

(Start: 3 @7930 has 33 MA's), (12, 8119), (13, 8122), (15, 8137), (17, 8158), (18, 8179), (21, 8251), (22, 8266), (24, 8353),

Gene: Perkunas_13 Start: 5613, Stop: 6047, Start Num: 3

Candidate Starts for Perkunas_13:

(Start: 2 @5610 has 1 MA's), (Start: 3 @5613 has 33 MA's), (4, 5634), (15, 5820),

Gene: Petito_10 Start: 5309, Stop: 5743, Start Num: 3

Candidate Starts for Petito_10:

(Start: 2 @5306 has 1 MA's), (Start: 3 @5309 has 33 MA's), (6, 5360), (15, 5516), (18, 5558), (19, 5570),

Gene: Phepper_14 Start: 7729, Stop: 8172, Start Num: 3

Candidate Starts for Phepper_14:

(Start: 2 @7726 has 1 MA's), (Start: 3 @7729 has 33 MA's), (12, 7918), (14, 7930), (15, 7936), (17, 7957), (18, 7978), (23, 8122), (24, 8152),

Gene: Pherobrine_11 Start: 5496, Stop: 5951, Start Num: 3

Candidate Starts for Pherobrine_11:

(1, 5154), (Start: 2 @5493 has 1 MA's), (Start: 3 @5496 has 33 MA's), (15, 5703), (18, 5745),

Gene: Rickmore_13 Start: 6499, Stop: 6942, Start Num: 3

Candidate Starts for Rickmore_13:

(Start: 3 @6499 has 33 MA's), (8, 6625), (12, 6688), (13, 6691), (15, 6706), (17, 6727), (18, 6748), (23, 6892), (24, 6922),

Gene: Roney_10 Start: 4801, Stop: 5235, Start Num: 3

Candidate Starts for Roney_10:

(Start: 2 @4798 has 1 MA's), (Start: 3 @4801 has 33 MA's), (15, 5008), (18, 5050), (19, 5062),

Gene: Runhaar_14 Start: 7731, Stop: 8174, Start Num: 3

Candidate Starts for Runhaar_14:

(Start: 3 @7731 has 33 MA's), (8, 7857), (12, 7920), (14, 7932), (15, 7938), (17, 7959), (18, 7980), (23, 8124), (24, 8154),

Gene: Schwartz33_14 Start: 7513, Stop: 7956, Start Num: 3

Candidate Starts for Schwartz33_14:

(Start: 2 @7510 has 1 MA's), (Start: 3 @7513 has 33 MA's), (15, 7720), (16, 7723), (18, 7762),

Gene: Secretariat_10 Start: 5117, Stop: 5560, Start Num: 3

Candidate Starts for Secretariat_10:

(Start: 2 @5114 has 1 MA's), (Start: 3 @5117 has 33 MA's), (5, 5156), (7, 5231), (11, 5267), (15, 5324), (24, 5540),

Gene: Tanis_10 Start: 4651, Stop: 5085, Start Num: 3

Candidate Starts for Tanis_10:

(Start: 2 @4648 has 1 MA's), (Start: 3 @4651 has 33 MA's), (15, 4858), (18, 4900), (19, 4912),

Gene: TenaciousP_16 Start: 7933, Stop: 8376, Start Num: 3

Candidate Starts for TenaciousP_16:

(Start: 3 @7933 has 33 MA's), (12, 8122), (13, 8125), (15, 8140), (17, 8161), (18, 8182), (21, 8254), (22, 8269), (24, 8356),

Gene: Untouchable_13 Start: 6656, Stop: 7099, Start Num: 3

Candidate Starts for Untouchable_13:

(Start: 3 @6656 has 33 MA's), (12, 6845), (15, 6863), (18, 6905), (23, 7049), (24, 7079),

Gene: Vardy_14 Start: 7729, Stop: 8172, Start Num: 3

Candidate Starts for Vardy_14:

(Start: 3 @7729 has 33 MA's), (8, 7855), (12, 7918), (14, 7930), (15, 7936), (17, 7957), (18, 7978), (23, 8122), (24, 8152),

Gene: Zeph_14 Start: 6915, Stop: 7358, Start Num: 3

Candidate Starts for Zeph_14:

(Start: 2 @6912 has 1 MA's), (Start: 3 @6915 has 33 MA's), (12, 7104), (15, 7122), (17, 7143), (18, 7164), (23, 7308), (24, 7338),