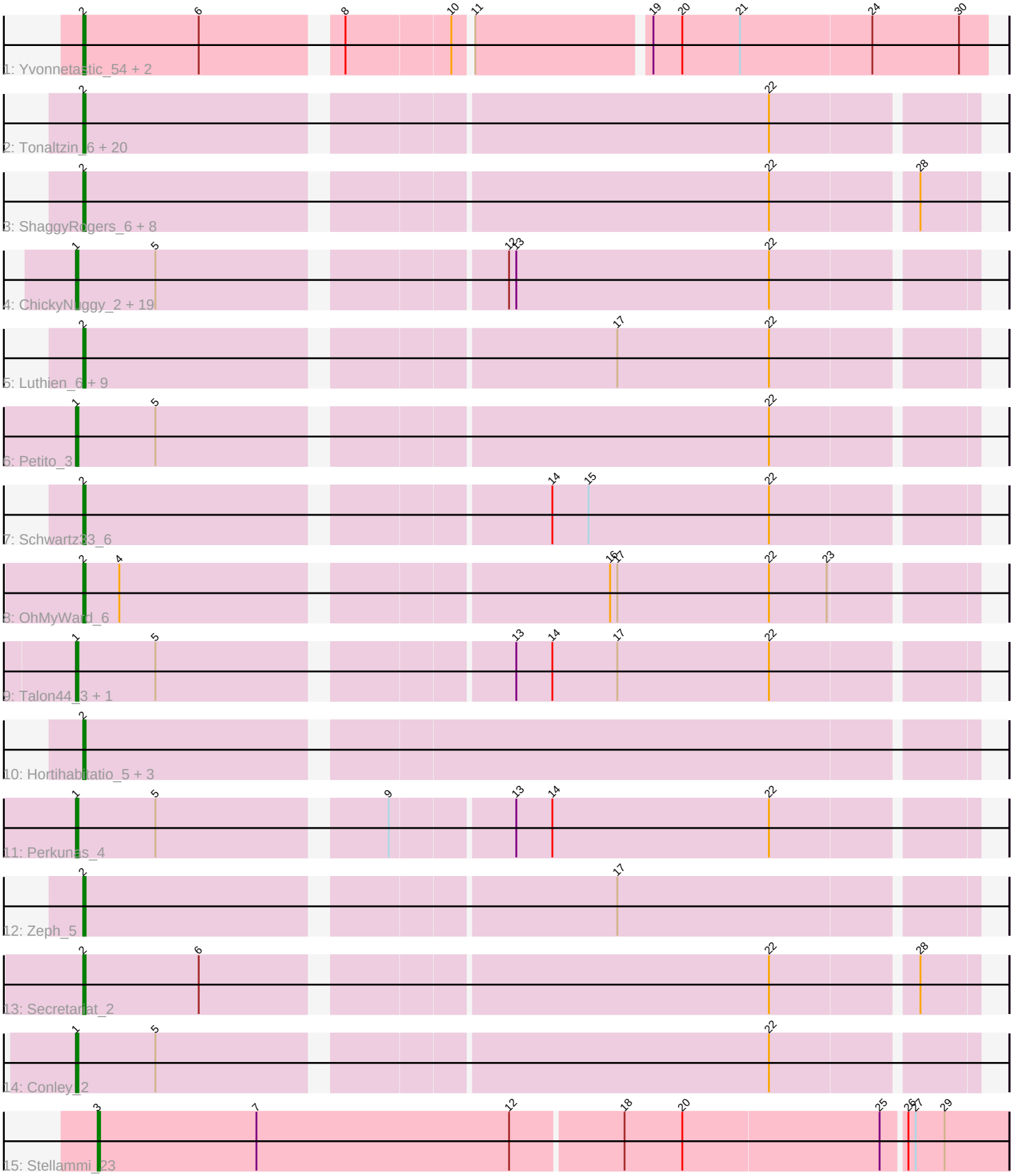
Pham 332762


1: Yvonnetastic_54 + 2
2: Tonaltzin_6 + 20
3: ShaggyRogers_6 + 8
4: ChickyNuggy_2 + 19
5: Luthien_6 + 9
6: Petito_3
7: Schwartz33_6
8: OhMyWard_6
9: Talon44_3 + 1
10: Hortihabitatio_5 + 3
11: Perkunas_4
12: Zeph_5
13: Secretariat_2
14: Conley_2
15: Stellammi_23

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 332762 Report

This analysis was run 11/14/26 on database version 672.

Pham number 332762 has 77 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Yvonnetastic_54, Cardigan_56, JonJames_56
• Track 2 : Tonaltzin_6, Dialga_5, Hydrus_5, CWormy_5, Nadmeg_6, Burley_6, Eddiemania_5, OlgasClover_6, Crocheter_5, Aflac_6, Kenosha_3, Vardy_6, BluerMoon_6, TenaciousP_6, Jodelie19_6, MajinBuu_6, Figliar_6, Runhaar_6, Blanky_2, Untouchable_5, ArtetaBall_5
• Track 3 : ShaggyRogers_6, Gusicorn_6, Demure_3, Phepper_6, BetterYeti_6, Arataki_3, Aloe25_6, Madvan_6, PestoPenguin_6
• Track 4 : ChickyNuggy_2, NoPickles_2, FortCran_2, Kerry_2, Odesza_2, Magel_2, Captrips_2, JulesRay_2, Dancer_2, Roney_2, Artorias_2, Capybara_2, Gill_2, Tairn4Wing_2, Bugg_2, Avazak_2, Tanis_2, Trufflozitus_2, Gravy_2, Football_2
• Track 5 : Luthien_6, EndAve_6, AlainaMarie_6, Rickmore_5, Mossy_3, Duffington_6, Citrus_6, Chikenjars_6, Nithya_6, Glintora_5
• Track 6 : Petito_3
• Track 7 : Schwartz33_6
• Track 8 : OhMyWard_6
• Track 9 : Talon44_3, SweetCrkHerbs_3
• Track 10 : Hortihabitatio_5, Mysticmoon_3, Fazel_3, Pherobrine_3
• Track 11 : Perkunas_4
• Track 12 : Zeph_5
• Track 13 : Secretariat_2
• Track 14 : Conley_2
• Track 15 : Stellammi_23

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

The start number called the most often in the published annotations is 2, it was called in 46 of the 67 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aflac_6, AlainaMarie_6, Aloe25_6, Arataki_3, ArtetaBall_5, BetterYeti_6, Blanky_2, BluerMoon_6, Burley_6, CWormy_5, Cardigan_56, Chikenjars_6, Citrus_6, Crocheter_5, Demure_3, Dialga_5, Duffington_6, Eddiemania_5, EndAve_6, Fazel_3, Figliar_6, Glintora_5, Gusicorn_6, Hortihabitatio_5, Hydrus_5, Jodelie19_6, JonJames_56, Kenosha_3, Luthien_6, Madvan_6, MajinBuu_6, Mossy_3,

Mysticmoon_3, Nadmeg_6, Nithya_6, OhMyWard_6, OlgasClover_6, PestoPenguin_6, Phepper_6, Pherobrine_3, Rickmore_5, Runhaar_6, Schwartz33_6, Secretariat_2, ShaggyRogers_6, TenaciousP_6, Tonaltzin_6, Untouchable_5, Vardy_6, Yvonnetastic_54, Zeph_5,

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

Genes that do not have the "Most Annotated" start:
• Artorias_2, Avazak_2, Bugg_2, Captrips_2, Capybara_2, ChickyNuggy_2, Conley_2, Dancer_2, Football_2, FortCran_2, Gill_2, Gravy_2, JulesRay_2, Kerry_2, Magel_2, NoPickles_2, Odesza_2, Perkunas_4, Petito_3, Roney_2, Stellammi_23, SweetCrkHerbs_3, Tairn4Wing_2, Talon44_3, Tanis_2, Trufflozitus_2,

Summary by start number:

Start 1:
• Found in 25 of 77 (32.5%) of genes in pham
• Manual Annotations of this start: 20 of 67
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artorias_2 (DJ), Avazak_2 (DJ), Bugg_2 (DJ), Captrips_2 (DJ), Capybara_2 (DJ), ChickyNuggy_2 (DJ), Conley_2 (DJ), Dancer_2 (DJ), Football_2 (DJ), FortCran_2 (DJ), Gill_2 (DJ), Gravy_2 (DJ), JulesRay_2 (DJ), Kerry_2 (DJ), Magel_2 (DJ), NoPickles_2 (DJ), Odesza_2 (DJ), Perkunas_4 (DJ), Petito_3 (DJ), Roney_2 (DJ), SweetCrkHerbs_3 (DJ), Tairn4Wing_2 (DJ), Talon44_3 (DJ), Tanis_2 (DJ), Trufflozitus_2 (DJ),

Start 2:
• Found in 51 of 77 (66.2%) of genes in pham
• Manual Annotations of this start: 46 of 67
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aflac_6 (DJ), AlainaMarie_6 (DJ), Aloe25_6 (DJ), Arataki_3 (DJ), ArtetaBall_5 (DJ), BetterYeti_6 (DJ), Blanky_2 (DJ), BluerMoon_6 (DJ), Burley_6 (DJ), CWormy_5 (DJ), Cardigan_56 (DD), Chikenjars_6 (DJ), Citrus_6 (DJ), Crocheter_5 (DJ), Demure_3 (DJ), Dialga_5 (DJ), Duffington_6 (DJ), Eddiemania_5 (DJ), EndAve_6 (DJ), Fazel_3 (DJ), Figliar_6 (DJ), Glintora_5 (DJ), Gusicorn_6 (DJ), Hortihabitatio_5 (DJ), Hydrus_5 (DJ), Jodelie19_6 (DJ), JonJames_56 (DD), Kenosha_3 (DJ), Luthien_6 (DJ), Madvan_6 (DJ), MajinBuu_6 (DJ), Mossy_3 (DJ), Mysticmoon_3 (DJ), Nadmeg_6 (DJ), Nithya_6 (DJ), OhMyWard_6 (DJ), OlgasClover_6 (DJ), PestoPenguin_6 (DJ), Phepper_6 (DJ), Pherobrine_3 (DJ), Rickmore_5 (DJ), Runhaar_6 (DJ), Schwartz33_6 (DJ), Secretariat_2 (DJ), ShaggyRogers_6 (DJ), TenaciousP_6 (DJ), Tonaltzin_6 (DJ), Untouchable_5 (DJ), Vardy_6 (DJ), Yvonnetastic_54 (DD), Zeph_5 (DJ),

Start 3:
• Found in 1 of 77 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 67
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stellammi_23 (UNK),

Summary by clusters:

There are 3 clusters represented in this pham: DD, UNK, DJ,

Info for manual annotations of cluster DD:
•Start number 2 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DJ:
•Start number 1 was manually annotated 20 times for cluster DJ.
•Start number 2 was manually annotated 43 times for cluster DJ.

Info for manual annotations of cluster UNK:
•Start number 3 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Aflac_6 Start: 2915, Stop: 3265, Start Num: 2
Candidate Starts for Aflac_6:
(Start: 2 @2915 has 46 MA's), (22, 3185),

Gene: AlainaMarie_6 Start: 2906, Stop: 3256, Start Num: 2
Candidate Starts for AlainaMarie_6:
(Start: 2 @2906 has 46 MA's), (17, 3113), (22, 3176),

Gene: Aloe25_6 Start: 2912, Stop: 3262, Start Num: 2
Candidate Starts for Aloe25_6:
(Start: 2 @2912 has 46 MA's), (22, 3182), (28, 3239),

Gene: Arataki_3 Start: 703, Stop: 1053, Start Num: 2
Candidate Starts for Arataki_3:
(Start: 2 @703 has 46 MA's), (22, 973), (28, 1030),

Gene: ArtetaBall_5 Start: 1839, Stop: 2189, Start Num: 2
Candidate Starts for ArtetaBall_5:
(Start: 2 @1839 has 46 MA's), (22, 2109),

Gene: Artorias_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Artorias_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Avazak_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Avazak_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: BetterYeti_6 Start: 2912, Stop: 3262, Start Num: 2
Candidate Starts for BetterYeti_6:
(Start: 2 @2912 has 46 MA's), (22, 3182), (28, 3239),

Gene: Blanky_2 Start: 757, Stop: 1107, Start Num: 2
Candidate Starts for Blanky_2:
(Start: 2 @757 has 46 MA's), (22, 1027),

Gene: BluerMoon_6 Start: 2909, Stop: 3259, Start Num: 2
Candidate Starts for BluerMoon_6:

(Start: 2 @2909 has 46 MA's), (22, 3179),

Gene: Bugg_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Bugg_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Burley_6 Start: 2912, Stop: 3262, Start Num: 2
Candidate Starts for Burley_6:
(Start: 2 @2912 has 46 MA's), (22, 3182),

Gene: CWormy_5 Start: 1839, Stop: 2189, Start Num: 2
Candidate Starts for CWormy_5:
(Start: 2 @1839 has 46 MA's), (22, 2109),

Gene: Captrips_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Captrips_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Capybara_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Capybara_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Cardigan_56 Start: 41106, Stop: 41459, Start Num: 2
Candidate Starts for Cardigan_56:
(Start: 2 @41106 has 46 MA's), (6, 41154), (8, 41205), (10, 41247), (11, 41253), (19, 41322), (20, 41334), (21, 41358), (24, 41412), (30, 41448),

Gene: ChickyNuggy_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for ChickyNuggy_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Chikenjars_6 Start: 2906, Stop: 3256, Start Num: 2
Candidate Starts for Chikenjars_6:
(Start: 2 @2906 has 46 MA's), (17, 3113), (22, 3176),

Gene: Citrus_6 Start: 2912, Stop: 3262, Start Num: 2
Candidate Starts for Citrus_6:
(Start: 2 @2912 has 46 MA's), (17, 3119), (22, 3182),

Gene: Conley_2 Start: 473, Stop: 826, Start Num: 1
Candidate Starts for Conley_2:
(Start: 1 @473 has 20 MA's), (5, 506), (22, 746),

Gene: Crocheter_5 Start: 1839, Stop: 2189, Start Num: 2
Candidate Starts for Crocheter_5:
(Start: 2 @1839 has 46 MA's), (22, 2109),

Gene: Dancer_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Dancer_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Demure_3 Start: 703, Stop: 1053, Start Num: 2
Candidate Starts for Demure_3:

(Start: 2 @703 has 46 MA's), (22, 973), (28, 1030),

Gene: Dialga_5 Start: 1839, Stop: 2189, Start Num: 2
Candidate Starts for Dialga_5:
(Start: 2 @1839 has 46 MA's), (22, 2109),

Gene: Duffington_6 Start: 2906, Stop: 3241, Start Num: 2
Candidate Starts for Duffington_6:
(Start: 2 @2906 has 46 MA's), (17, 3113), (22, 3176),

Gene: Eddiemania_5 Start: 2097, Stop: 2447, Start Num: 2
Candidate Starts for Eddiemania_5:
(Start: 2 @2097 has 46 MA's), (22, 2367),

Gene: EndAve_6 Start: 2906, Stop: 3256, Start Num: 2
Candidate Starts for EndAve_6:
(Start: 2 @2906 has 46 MA's), (17, 3113), (22, 3176),

Gene: Fazel_3 Start: 1633, Stop: 1986, Start Num: 2
Candidate Starts for Fazel_3:
(Start: 2 @1633 has 46 MA's),

Gene: Figliar_6 Start: 2915, Stop: 3265, Start Num: 2
Candidate Starts for Figliar_6:
(Start: 2 @2915 has 46 MA's), (22, 3185),

Gene: Football_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Football_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: FortCran_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for FortCran_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Gill_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Gill_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Glintora_5 Start: 2906, Stop: 3256, Start Num: 2
Candidate Starts for Glintora_5:
(Start: 2 @2906 has 46 MA's), (17, 3113), (22, 3176),

Gene: Gravy_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Gravy_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Gusicorn_6 Start: 2912, Stop: 3262, Start Num: 2
Candidate Starts for Gusicorn_6:
(Start: 2 @2912 has 46 MA's), (22, 3182), (28, 3239),

Gene: Hortihabitatio_5 Start: 2190, Stop: 2543, Start Num: 2
Candidate Starts for Hortihabitatio_5:
(Start: 2 @2190 has 46 MA's),

Gene: Hydrus_5 Start: 2097, Stop: 2447, Start Num: 2
Candidate Starts for Hydrus_5:
(Start: 2 @2097 has 46 MA's), (22, 2367),

Gene: Jodelie19_6 Start: 2909, Stop: 3259, Start Num: 2
Candidate Starts for Jodelie19_6:
(Start: 2 @2909 has 46 MA's), (22, 3179),

Gene: JonJames_56 Start: 41168, Stop: 41521, Start Num: 2
Candidate Starts for JonJames_56:
(Start: 2 @41168 has 46 MA's), (6, 41216), (8, 41267), (10, 41309), (11, 41315), (19, 41384), (20, 41396), (21, 41420), (24, 41474), (30, 41510),

Gene: JulesRay_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for JulesRay_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Kenosha_3 Start: 698, Stop: 1048, Start Num: 2
Candidate Starts for Kenosha_3:
(Start: 2 @698 has 46 MA's), (22, 968),

Gene: Kerry_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Kerry_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Luthien_6 Start: 2906, Stop: 3256, Start Num: 2
Candidate Starts for Luthien_6:
(Start: 2 @2906 has 46 MA's), (17, 3113), (22, 3176),

Gene: Madvan_6 Start: 2912, Stop: 3262, Start Num: 2
Candidate Starts for Madvan_6:
(Start: 2 @2912 has 46 MA's), (22, 3182), (28, 3239),

Gene: Magel_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Magel_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: MajinBuu_6 Start: 2909, Stop: 3259, Start Num: 2
Candidate Starts for MajinBuu_6:
(Start: 2 @2909 has 46 MA's), (22, 3179),

Gene: Mossy_3 Start: 758, Stop: 1108, Start Num: 2
Candidate Starts for Mossy_3:
(Start: 2 @758 has 46 MA's), (17, 965), (22, 1028),

Gene: Mysticmoon_3 Start: 665, Stop: 1018, Start Num: 2
Candidate Starts for Mysticmoon_3:
(Start: 2 @665 has 46 MA's),

Gene: Nadmeg_6 Start: 2913, Stop: 3263, Start Num: 2
Candidate Starts for Nadmeg_6:
(Start: 2 @2913 has 46 MA's), (22, 3183),

Gene: Nithya_6 Start: 2906, Stop: 3256, Start Num: 2
Candidate Starts for Nithya_6:
(Start: 2 @2906 has 46 MA's), (17, 3113), (22, 3176),

Gene: NoPickles_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for NoPickles_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Odesza_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Odesza_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: OhMyWard_6 Start: 2910, Stop: 3260, Start Num: 2
Candidate Starts for OhMyWard_6:
(Start: 2 @2910 has 46 MA's), (4, 2925), (16, 3114), (17, 3117), (22, 3180), (23, 3204),

Gene: OlgasClover_6 Start: 2906, Stop: 3256, Start Num: 2
Candidate Starts for OlgasClover_6:
(Start: 2 @2906 has 46 MA's), (22, 3176),

Gene: Perkunas_4 Start: 991, Stop: 1344, Start Num: 1
Candidate Starts for Perkunas_4:
(Start: 1 @991 has 20 MA's), (5, 1024), (9, 1111), (13, 1159), (14, 1174), (22, 1264),

Gene: PestoPenguin_6 Start: 2912, Stop: 3262, Start Num: 2
Candidate Starts for PestoPenguin_6:
(Start: 2 @2912 has 46 MA's), (22, 3182), (28, 3239),

Gene: Petito_3 Start: 667, Stop: 1020, Start Num: 1
Candidate Starts for Petito_3:
(Start: 1 @667 has 20 MA's), (5, 700), (22, 940),

Gene: Phepper_6 Start: 2912, Stop: 3262, Start Num: 2
Candidate Starts for Phepper_6:
(Start: 2 @2912 has 46 MA's), (22, 3182), (28, 3239),

Gene: Pherobrine_3 Start: 666, Stop: 1019, Start Num: 2
Candidate Starts for Pherobrine_3:
(Start: 2 @666 has 46 MA's),

Gene: Rickmore_5 Start: 1474, Stop: 1824, Start Num: 2
Candidate Starts for Rickmore_5:
(Start: 2 @1474 has 46 MA's), (17, 1681), (22, 1744),

Gene: Roney_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Roney_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Runhaar_6 Start: 2912, Stop: 3262, Start Num: 2
Candidate Starts for Runhaar_6:
(Start: 2 @2912 has 46 MA's), (22, 3182),

Gene: Schwartz33_6 Start: 2928, Stop: 3278, Start Num: 2
Candidate Starts for Schwartz33_6:
(Start: 2 @2928 has 46 MA's), (14, 3108), (15, 3123), (22, 3198),

Gene: Secretariat_2 Start: 534, Stop: 884, Start Num: 2
Candidate Starts for Secretariat_2:
(Start: 2 @534 has 46 MA's), (6, 582), (22, 804), (28, 861),

Gene: ShaggyRogers_6 Start: 2911, Stop: 3261, Start Num: 2
Candidate Starts for ShaggyRogers_6:
(Start: 2 @2911 has 46 MA's), (22, 3181), (28, 3238),

Gene: Stellammi_23 Start: 21645, Stop: 22016, Start Num: 3
Candidate Starts for Stellammi_23:
(Start: 3 @21645 has 1 MA's), (7, 21711), (12, 21816), (18, 21861), (20, 21885), (25, 21966), (26, 21975), (27, 21978), (29, 21990),

Gene: SweetCrkHerbs_3 Start: 667, Stop: 1020, Start Num: 1
Candidate Starts for SweetCrkHerbs_3:
(Start: 1 @667 has 20 MA's), (5, 700), (13, 835), (14, 850), (17, 877), (22, 940),

Gene: Tairn4Wing_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Tairn4Wing_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Talon44_3 Start: 667, Stop: 1020, Start Num: 1
Candidate Starts for Talon44_3:
(Start: 1 @667 has 20 MA's), (5, 700), (13, 835), (14, 850), (17, 877), (22, 940),

Gene: Tanis_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Tanis_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: TenaciousP_6 Start: 2909, Stop: 3259, Start Num: 2
Candidate Starts for TenaciousP_6:
(Start: 2 @2909 has 46 MA's), (22, 3179),

Gene: Tonaltzin_6 Start: 2909, Stop: 3259, Start Num: 2
Candidate Starts for Tonaltzin_6:
(Start: 2 @2909 has 46 MA's), (22, 3179),

Gene: Trufflozitus_2 Start: 472, Stop: 825, Start Num: 1
Candidate Starts for Trufflozitus_2:
(Start: 1 @472 has 20 MA's), (5, 505), (12, 637), (13, 640), (22, 745),

Gene: Untouchable_5 Start: 1838, Stop: 2188, Start Num: 2
Candidate Starts for Untouchable_5:
(Start: 2 @1838 has 46 MA's), (22, 2108),

Gene: Vardy_6 Start: 2911, Stop: 3261, Start Num: 2
Candidate Starts for Vardy_6:
(Start: 2 @2911 has 46 MA's), (22, 3181),

Gene: Yvonnetastic_54 Start: 38703, Stop: 39056, Start Num: 2
Candidate Starts for Yvonnetastic_54:
(Start: 2 @38703 has 46 MA's), (6, 38751), (8, 38802), (10, 38844), (11, 38850), (19, 38919), (20, 38931), (21, 38955), (24, 39009), (30, 39045),

Gene: Zeph_5 Start: 2097, Stop: 2447, Start Num: 2
Candidate Starts for Zeph_5:
(Start: 2 @2097 has 46 MA's), (17, 2304),