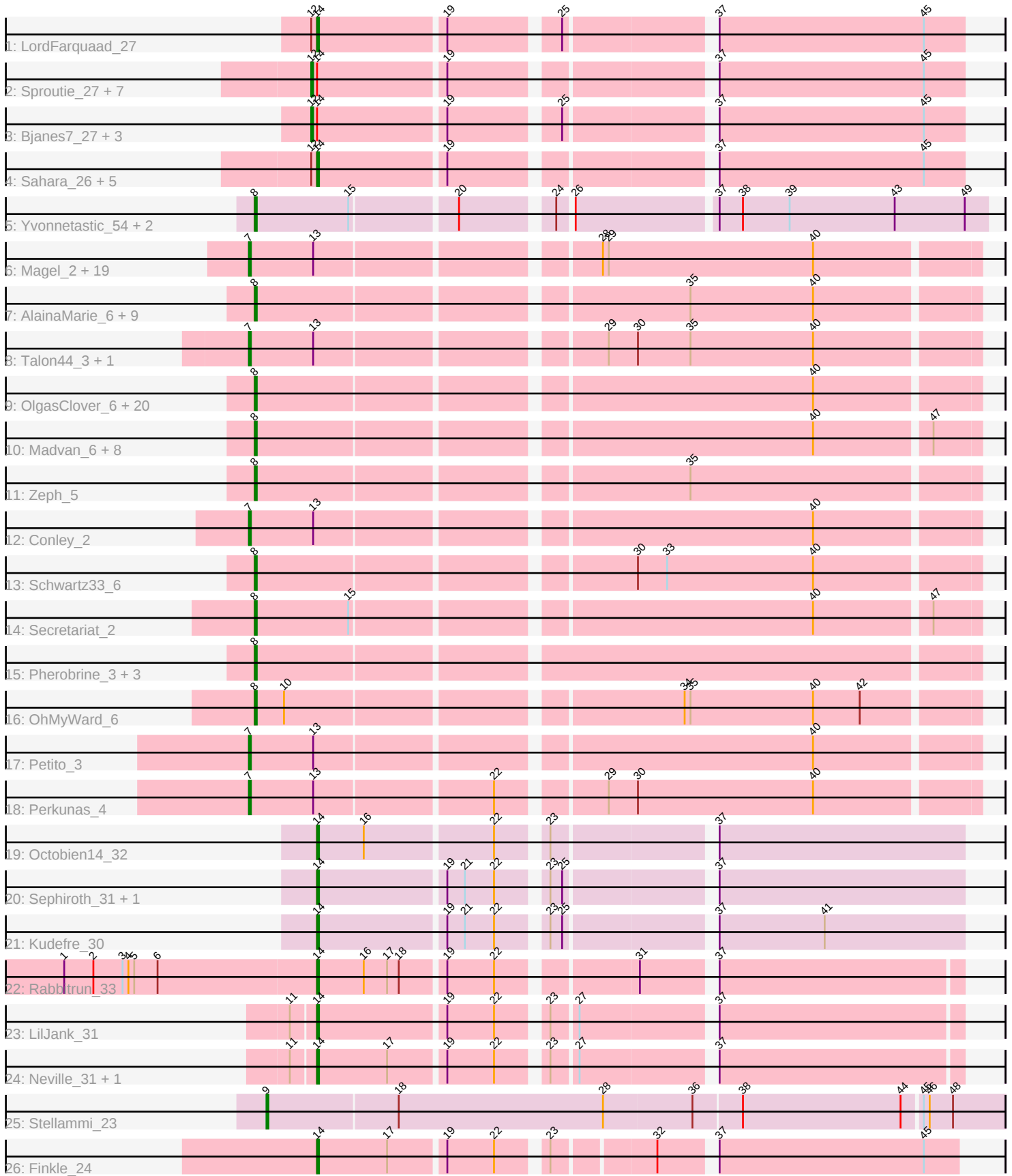


Pham 330677



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 330677 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330677 has 105 members, 14 are drafts.

Phages represented in each track:

- Track 1 : LordFarquaad_27
- Track 2 : Sproutie_27, Gizermo_27, Jalleen_27, Savage_27, Cynthia_27, Ebert_27, Yinzer_27, Mocha12_27
- Track 3 : Bjaness_27, Yeet412_27, Attis_27, SoilAssassin_27
- Track 4 : Sahara_26, Haley23_27, GemG_27, Whiteclaw_27, Clap_27, TuertoX_27
- Track 5 : Yvonnestic_54, Cardigan_56, JonJames_56
- Track 6 : Magel_2, Cappybara_2, Trufflozitus_2, ChickyNugget_2, NoPickles_2, Captrips_2, Dancer_2, Bugg_2, Gravy_2, FortCran_2, Odesza_2, Roney_2, Artorias_2, Gill_2, Tanis_2, JulesRay_2, Kerry_2, Tairn4Wing_2, Avazak_2, Football_2
- Track 7 : AlainaMarie_6, Glintora_5, EndAve_6, Chickenjars_6, Nithya_6, Mossy_3, Citrus_6, Luthien_6, Rickmore_5, Duffington_6
- Track 8 : Talon44_3, SweetCrkHerbs_3
- Track 9 : OlgasClover_6, Crocheter_5, Aflac_6, MajinBuu_6, BluerMoon_6, CWormy_5, Figliar_6, Runhaar_6, Hydrus_5, Jodelie19_6, Untouchable_5, ArtetaBall_5, Dialga_5, Nadmeg_6, Vardy_6, Blanky_2, Tonaltzin_6, Burley_6, Eddiemania_5, Kenosha_3, TenaciousP_6
- Track 10 : Madvan_6, Phepper_6, PestoPenguin_6, ShaggyRogers_6, Demure_3, BetterYeti_6, Gusicorn_6, Arataki_3, Aloe25_6
- Track 11 : Zeph_5
- Track 12 : Conley_2
- Track 13 : Schwartz33_6
- Track 14 : Secretariat_2
- Track 15 : Pherobrine_3, Hortihabitatio_5, Mysticmoon_3, Fazel_3
- Track 16 : OhMyWard_6
- Track 17 : Petito_3
- Track 18 : Perkunas_4
- Track 19 : Octobien14_32
- Track 20 : Sephiroth_31, Syleon_31
- Track 21 : Kudrefre_30
- Track 22 : Rabbitrun_33
- Track 23 : LilJank_31
- Track 24 : Neville_31, Trax_31
- Track 25 : Stellammi_23
- Track 26 : Finkle_24

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 44 of the 91 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, Chickenjars_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, Tonalitzin_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, Attis_27, Avazak_2, Bjaness7_27, Bugg_2, Captrips_2, Cappybara_2, ChickyNugget_2, Clap_27, Conley_2, Cynthia_27, Dancer_2, Ebert_27, Finkle_24, Football_2, FortCran_2, GemG_27, Gill_2, Gizermo_27, Gravy_2, Haley23_27, Jalleen_27, JulesRay_2, Kerry_2, Kudrefre_30, LilJank_31, LordFarquaad_27, Magel_2, Mocha12_27, Neville_31, NoPickles_2, Octobien14_32, Odesza_2, Perkunas_4, Petito_3, Rabbitrun_33, Roney_2, Sahara_26, Savage_27, Sephiroth_31, SoilAssassin_27, Sproutie_27, Stellammi_23, SweetCrkHerbs_3, Syleon_31, Tairn4Wing_2, Talon44_3, Tanis_2, Trax_31, Trufflozitus_2, TuertoX_27, Whiteclaw_27, Yeet412_27, Yinzer_27,

Summary by start number:

Start 7:

• Found in 25 of 105 (23.8%) of genes in pham
• Manual Annotations of this start: 20 of 91
• 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), Cappybara_2 (DJ), ChickyNugget_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 8:

• Found in 51 of 105 (48.6%) of genes in pham
• Manual Annotations of this start: 44 of 91
• 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), Chickenjars_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), Yvonnestic_54 (DD), Zeph_5 (DJ),

Start 9:

- Found in 1 of 105 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 91
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stellammi_23 (UNK),

Start 12:

- Found in 19 of 105 (18.1%) of genes in pham
- Manual Annotations of this start: 10 of 91
- Called 63.2% of time when present
- Phage (with cluster) where this start called: Attis_27 (CZ2), Bjaness_27 (CZ2), Cynthia_27 (CZ2), Ebert_27 (CZ2), Gizermo_27 (CZ2), Jalleen_27 (CZ2), Mocha12_27 (CZ2), Savage_27 (CZ2), SoilAssassin_27 (CZ2), Sproutie_27 (CZ2), Yeet412_27 (CZ2), Yinzer_27 (CZ2),

Start 14:

- Found in 28 of 105 (26.7%) of genes in pham
- Manual Annotations of this start: 16 of 91
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Clap_27 (CZ2), Finkle_24 (singleton), GemG_27 (CZ2), Haley23_27 (CZ2), Kudrefre_30 (DU1), LilJank_31 (DU2), LordFarquaad_27 (CZ2), Neville_31 (DU2), Octobien14_32 (DU1), Rabbitrun_33 (DU2), Sahara_26 (CZ2), Sephiroth_31 (DU1), Syleon_31 (DU1), Trax_31 (DU2), TuertoX_27 (CZ2), Whiteclaw_27 (CZ2),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, DJ, CZ2, DD, DU1, DU2, UNK,

Info for manual annotations of cluster CZ2:

- Start number 12 was manually annotated 10 times for cluster CZ2.
- Start number 14 was manually annotated 7 times for cluster CZ2.

Info for manual annotations of cluster DD:

- Start number 8 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DJ:

- Start number 7 was manually annotated 20 times for cluster DJ.
- Start number 8 was manually annotated 41 times for cluster DJ.

Info for manual annotations of cluster DU1:

- Start number 14 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 14 was manually annotated 4 times for cluster DU2.

Info for manual annotations of cluster UNK:

- Start number 9 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Aflac_6 Start: 2915, Stop: 3265, Start Num: 8

Candidate Starts for Aflac_6:

(Start: 8 @2915 has 44 MA's), (40, 3185),

Gene: AlainaMarie_6 Start: 2906, Stop: 3256, Start Num: 8

Candidate Starts for AlainaMarie_6:

(Start: 8 @2906 has 44 MA's), (35, 3113), (40, 3176),

Gene: Aloe25_6 Start: 2912, Stop: 3262, Start Num: 8

Candidate Starts for Aloe25_6:

(Start: 8 @2912 has 44 MA's), (40, 3182), (47, 3239),

Gene: Arataki_3 Start: 703, Stop: 1053, Start Num: 8

Candidate Starts for Arataki_3:

(Start: 8 @703 has 44 MA's), (40, 973), (47, 1030),

Gene: ArtetaBall_5 Start: 1839, Stop: 2189, Start Num: 8

Candidate Starts for ArtetaBall_5:

(Start: 8 @1839 has 44 MA's), (40, 2109),

Gene: Artorias_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Artorias_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Attis_27 Start: 22281, Stop: 22592, Start Num: 12

Candidate Starts for Attis_27:

(Start: 12 @22281 has 10 MA's), (Start: 14 @22284 has 16 MA's), (19, 22347), (25, 22398), (37, 22467), (45, 22572),

Gene: Avazak_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Avazak_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: BetterYeti_6 Start: 2912, Stop: 3262, Start Num: 8

Candidate Starts for BetterYeti_6:

(Start: 8 @2912 has 44 MA's), (40, 3182), (47, 3239),

Gene: Bjanes7_27 Start: 22281, Stop: 22592, Start Num: 12

Candidate Starts for Bjanes7_27:

(Start: 12 @22281 has 10 MA's), (Start: 14 @22284 has 16 MA's), (19, 22347), (25, 22398), (37, 22467), (45, 22572),

Gene: Blanky_2 Start: 757, Stop: 1107, Start Num: 8

Candidate Starts for Blanky_2:

(Start: 8 @757 has 44 MA's), (40, 1027),

Gene: BluerMoon_6 Start: 2909, Stop: 3259, Start Num: 8

Candidate Starts for BluerMoon_6:

(Start: 8 @2909 has 44 MA's), (40, 3179),

Gene: Bugg_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Bugg_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Burley_6 Start: 2912, Stop: 3262, Start Num: 8

Candidate Starts for Burley_6:

(Start: 8 @2912 has 44 MA's), (40, 3182),

Gene: CWormy_5 Start: 1839, Stop: 2189, Start Num: 8

Candidate Starts for CWormy_5:

(Start: 8 @1839 has 44 MA's), (40, 2109),

Gene: Captrips_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Captrips_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Capybara_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Capybara_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Cardigan_56 Start: 41106, Stop: 41459, Start Num: 8

Candidate Starts for Cardigan_56:

(Start: 8 @41106 has 44 MA's), (15, 41154), (20, 41205), (24, 41247), (26, 41253), (37, 41322), (38, 41334), (39, 41358), (43, 41412), (49, 41448),

Gene: ChickyNuggy_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for ChickyNuggy_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Chikenjars_6 Start: 2906, Stop: 3256, Start Num: 8

Candidate Starts for Chikenjars_6:

(Start: 8 @2906 has 44 MA's), (35, 3113), (40, 3176),

Gene: Citrus_6 Start: 2912, Stop: 3262, Start Num: 8

Candidate Starts for Citrus_6:

(Start: 8 @2912 has 44 MA's), (35, 3119), (40, 3182),

Gene: Clap_27 Start: 22291, Stop: 22599, Start Num: 14

Candidate Starts for Clap_27:

(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Conley_2 Start: 473, Stop: 826, Start Num: 7

Candidate Starts for Conley_2:

(Start: 7 @473 has 20 MA's), (13, 506), (40, 746),

Gene: Crocheter_5 Start: 1839, Stop: 2189, Start Num: 8

Candidate Starts for Crocheter_5:
(Start: 8 @1839 has 44 MA's), (40, 2109),

Gene: Cynthia_27 Start: 22288, Stop: 22599, Start Num: 12
Candidate Starts for Cynthia_27:
(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Dancer_2 Start: 472, Stop: 825, Start Num: 7
Candidate Starts for Dancer_2:
(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Demure_3 Start: 703, Stop: 1053, Start Num: 8
Candidate Starts for Demure_3:
(Start: 8 @703 has 44 MA's), (40, 973), (47, 1030),

Gene: Dialga_5 Start: 1839, Stop: 2189, Start Num: 8
Candidate Starts for Dialga_5:
(Start: 8 @1839 has 44 MA's), (40, 2109),

Gene: Duffington_6 Start: 2906, Stop: 3241, Start Num: 8
Candidate Starts for Duffington_6:
(Start: 8 @2906 has 44 MA's), (35, 3113), (40, 3176),

Gene: Ebert_27 Start: 22288, Stop: 22599, Start Num: 12
Candidate Starts for Ebert_27:
(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Eddiemania_5 Start: 2097, Stop: 2447, Start Num: 8
Candidate Starts for Eddiemania_5:
(Start: 8 @2097 has 44 MA's), (40, 2367),

Gene: EndAve_6 Start: 2906, Stop: 3256, Start Num: 8
Candidate Starts for EndAve_6:
(Start: 8 @2906 has 44 MA's), (35, 3113), (40, 3176),

Gene: Fazel_3 Start: 1633, Stop: 1986, Start Num: 8
Candidate Starts for Fazel_3:
(Start: 8 @1633 has 44 MA's),

Gene: Figliar_6 Start: 2915, Stop: 3265, Start Num: 8
Candidate Starts for Figliar_6:
(Start: 8 @2915 has 44 MA's), (40, 3185),

Gene: Finkle_24 Start: 21315, Stop: 21617, Start Num: 14
Candidate Starts for Finkle_24:
(Start: 14 @21315 has 16 MA's), (17, 21351), (19, 21378), (22, 21402), (23, 21423), (32, 21471), (37, 21495), (45, 21600),

Gene: Football_2 Start: 472, Stop: 825, Start Num: 7
Candidate Starts for Football_2:
(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: FortCran_2 Start: 472, Stop: 825, Start Num: 7
Candidate Starts for FortCran_2:
(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: GemG_27 Start: 22291, Stop: 22599, Start Num: 14
Candidate Starts for GemG_27:
(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Gill_2 Start: 472, Stop: 825, Start Num: 7
Candidate Starts for Gill_2:
(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Gizermo_27 Start: 22288, Stop: 22599, Start Num: 12
Candidate Starts for Gizermo_27:
(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Glintora_5 Start: 2906, Stop: 3256, Start Num: 8
Candidate Starts for Glintora_5:
(Start: 8 @2906 has 44 MA's), (35, 3113), (40, 3176),

Gene: Gravy_2 Start: 472, Stop: 825, Start Num: 7
Candidate Starts for Gravy_2:
(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Gusicorn_6 Start: 2912, Stop: 3262, Start Num: 8
Candidate Starts for Gusicorn_6:
(Start: 8 @2912 has 44 MA's), (40, 3182), (47, 3239),

Gene: Haley23_27 Start: 22291, Stop: 22599, Start Num: 14
Candidate Starts for Haley23_27:
(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Hortihabitatio_5 Start: 2190, Stop: 2543, Start Num: 8
Candidate Starts for Hortihabitatio_5:
(Start: 8 @2190 has 44 MA's),

Gene: Hydrus_5 Start: 2097, Stop: 2447, Start Num: 8
Candidate Starts for Hydrus_5:
(Start: 8 @2097 has 44 MA's), (40, 2367),

Gene: Jalleen_27 Start: 21927, Stop: 22238, Start Num: 12
Candidate Starts for Jalleen_27:
(Start: 12 @21927 has 10 MA's), (Start: 14 @21930 has 16 MA's), (19, 21993), (37, 22113), (45, 22218),

Gene: Jodelie19_6 Start: 2909, Stop: 3259, Start Num: 8
Candidate Starts for Jodelie19_6:
(Start: 8 @2909 has 44 MA's), (40, 3179),

Gene: JonJames_56 Start: 41168, Stop: 41521, Start Num: 8

Candidate Starts for JonJames_56:

(Start: 8 @41168 has 44 MA's), (15, 41216), (20, 41267), (24, 41309), (26, 41315), (37, 41384), (38, 41396), (39, 41420), (43, 41474), (49, 41510),

Gene: JulesRay_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for JulesRay_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Kenosha_3 Start: 698, Stop: 1048, Start Num: 8

Candidate Starts for Kenosha_3:

(Start: 8 @698 has 44 MA's), (40, 968),

Gene: Kerry_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Kerry_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Kudefre_30 Start: 25686, Stop: 25994, Start Num: 14

Candidate Starts for Kudefre_30:

(Start: 14 @25686 has 16 MA's), (19, 25749), (21, 25758), (22, 25773), (23, 25794), (25, 25800), (37, 25869), (41, 25923),

Gene: LilJank_31 Start: 27468, Stop: 27773, Start Num: 14

Candidate Starts for LilJank_31:

(11, 27456), (Start: 14 @27468 has 16 MA's), (19, 27531), (22, 27555), (23, 27576), (27, 27588), (37, 27651),

Gene: LordFarquaad_27 Start: 22284, Stop: 22592, Start Num: 14

Candidate Starts for LordFarquaad_27:

(Start: 12 @22281 has 10 MA's), (Start: 14 @22284 has 16 MA's), (19, 22347), (25, 22398), (37, 22467), (45, 22572),

Gene: Luthien_6 Start: 2906, Stop: 3256, Start Num: 8

Candidate Starts for Luthien_6:

(Start: 8 @2906 has 44 MA's), (35, 3113), (40, 3176),

Gene: Madvan_6 Start: 2912, Stop: 3262, Start Num: 8

Candidate Starts for Madvan_6:

(Start: 8 @2912 has 44 MA's), (40, 3182), (47, 3239),

Gene: Magel_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Magel_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: MajinBuu_6 Start: 2909, Stop: 3259, Start Num: 8

Candidate Starts for MajinBuu_6:

(Start: 8 @2909 has 44 MA's), (40, 3179),

Gene: Mocha12_27 Start: 22288, Stop: 22599, Start Num: 12

Candidate Starts for Mocha12_27:

(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Mossy_3 Start: 758, Stop: 1108, Start Num: 8
Candidate Starts for Mossy_3:
(Start: 8 @758 has 44 MA's), (35, 965), (40, 1028),

Gene: Mysticmoon_3 Start: 665, Stop: 1018, Start Num: 8
Candidate Starts for Mysticmoon_3:
(Start: 8 @665 has 44 MA's),

Gene: Nadmeg_6 Start: 2913, Stop: 3263, Start Num: 8
Candidate Starts for Nadmeg_6:
(Start: 8 @2913 has 44 MA's), (40, 3183),

Gene: Neville_31 Start: 27108, Stop: 27413, Start Num: 14
Candidate Starts for Neville_31:
(11, 27096), (Start: 14 @27108 has 16 MA's), (17, 27144), (19, 27171), (22, 27195), (23, 27216), (27, 27228), (37, 27291),

Gene: Nithya_6 Start: 2906, Stop: 3256, Start Num: 8
Candidate Starts for Nithya_6:
(Start: 8 @2906 has 44 MA's), (35, 3113), (40, 3176),

Gene: NoPickles_2 Start: 472, Stop: 825, Start Num: 7
Candidate Starts for NoPickles_2:
(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Octobien14_32 Start: 26679, Stop: 26987, Start Num: 14
Candidate Starts for Octobien14_32:
(Start: 14 @26679 has 16 MA's), (16, 26703), (22, 26766), (23, 26787), (37, 26862),

Gene: Odesza_2 Start: 472, Stop: 825, Start Num: 7
Candidate Starts for Odesza_2:
(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: OhMyWard_6 Start: 2910, Stop: 3260, Start Num: 8
Candidate Starts for OhMyWard_6:
(Start: 8 @2910 has 44 MA's), (10, 2925), (34, 3114), (35, 3117), (40, 3180), (42, 3204),

Gene: OlgasClover_6 Start: 2906, Stop: 3256, Start Num: 8
Candidate Starts for OlgasClover_6:
(Start: 8 @2906 has 44 MA's), (40, 3176),

Gene: Perkunas_4 Start: 991, Stop: 1344, Start Num: 7
Candidate Starts for Perkunas_4:
(Start: 7 @991 has 20 MA's), (13, 1024), (22, 1111), (29, 1159), (30, 1174), (40, 1264),

Gene: PestoPenguin_6 Start: 2912, Stop: 3262, Start Num: 8
Candidate Starts for PestoPenguin_6:
(Start: 8 @2912 has 44 MA's), (40, 3182), (47, 3239),

Gene: Petite_3 Start: 667, Stop: 1020, Start Num: 7
Candidate Starts for Petite_3:
(Start: 7 @667 has 20 MA's), (13, 700), (40, 940),

Gene: Phepper_6 Start: 2912, Stop: 3262, Start Num: 8

Candidate Starts for Phepper_6:

(Start: 8 @2912 has 44 MA's), (40, 3182), (47, 3239),

Gene: Pherobrine_3 Start: 666, Stop: 1019, Start Num: 8

Candidate Starts for Pherobrine_3:

(Start: 8 @666 has 44 MA's),

Gene: Rabbitrun_33 Start: 27422, Stop: 27727, Start Num: 14

Candidate Starts for Rabbitrun_33:

(1, 27293), (2, 27308), (3, 27323), (4, 27326), (5, 27329), (6, 27341), (Start: 14 @27422 has 16 MA's), (16, 27446), (17, 27458), (18, 27464), (19, 27485), (22, 27509), (31, 27572), (37, 27605),

Gene: Rickmore_5 Start: 1474, Stop: 1824, Start Num: 8

Candidate Starts for Rickmore_5:

(Start: 8 @1474 has 44 MA's), (35, 1681), (40, 1744),

Gene: Roney_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Roney_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Runhaar_6 Start: 2912, Stop: 3262, Start Num: 8

Candidate Starts for Runhaar_6:

(Start: 8 @2912 has 44 MA's), (40, 3182),

Gene: Sahara_26 Start: 21963, Stop: 22271, Start Num: 14

Candidate Starts for Sahara_26:

(Start: 12 @21960 has 10 MA's), (Start: 14 @21963 has 16 MA's), (19, 22026), (37, 22146), (45, 22251),

Gene: Savage_27 Start: 22288, Stop: 22599, Start Num: 12

Candidate Starts for Savage_27:

(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Schwartz33_6 Start: 2928, Stop: 3278, Start Num: 8

Candidate Starts for Schwartz33_6:

(Start: 8 @2928 has 44 MA's), (30, 3108), (33, 3123), (40, 3198),

Gene: Secretariat_2 Start: 534, Stop: 884, Start Num: 8

Candidate Starts for Secretariat_2:

(Start: 8 @534 has 44 MA's), (15, 582), (40, 804), (47, 861),

Gene: Sephiroth_31 Start: 25857, Stop: 26165, Start Num: 14

Candidate Starts for Sephiroth_31:

(Start: 14 @25857 has 16 MA's), (19, 25920), (21, 25929), (22, 25944), (23, 25965), (25, 25971), (37, 26040),

Gene: ShaggyRogers_6 Start: 2911, Stop: 3261, Start Num: 8

Candidate Starts for ShaggyRogers_6:

(Start: 8 @2911 has 44 MA's), (40, 3181), (47, 3238),

Gene: SoilAssassin_27 Start: 22281, Stop: 22592, Start Num: 12

Candidate Starts for SoilAssassin_27:

(Start: 12 @22281 has 10 MA's), (Start: 14 @22284 has 16 MA's), (19, 22347), (25, 22398), (37, 22467), (45, 22572),

Gene: Sproutie_27 Start: 22288, Stop: 22599, Start Num: 12

Candidate Starts for Sproutie_27:

(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Stellammi_23 Start: 21645, Stop: 22016, Start Num: 9

Candidate Starts for Stellammi_23:

(Start: 9 @21645 has 1 MA's), (18, 21711), (28, 21816), (36, 21861), (38, 21885), (44, 21966), (45, 21975), (46, 21978), (48, 21990),

Gene: SweetCrkHerbs_3 Start: 667, Stop: 1020, Start Num: 7

Candidate Starts for SweetCrkHerbs_3:

(Start: 7 @667 has 20 MA's), (13, 700), (29, 835), (30, 850), (35, 877), (40, 940),

Gene: Syleon_31 Start: 25779, Stop: 26087, Start Num: 14

Candidate Starts for Syleon_31:

(Start: 14 @25779 has 16 MA's), (19, 25842), (21, 25851), (22, 25866), (23, 25887), (25, 25893), (37, 25962),

Gene: Tairn4Wing_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Tairn4Wing_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: Talon44_3 Start: 667, Stop: 1020, Start Num: 7

Candidate Starts for Talon44_3:

(Start: 7 @667 has 20 MA's), (13, 700), (29, 835), (30, 850), (35, 877), (40, 940),

Gene: Tanis_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Tanis_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: TenaciousP_6 Start: 2909, Stop: 3259, Start Num: 8

Candidate Starts for TenaciousP_6:

(Start: 8 @2909 has 44 MA's), (40, 3179),

Gene: Tonaltzin_6 Start: 2909, Stop: 3259, Start Num: 8

Candidate Starts for Tonaltzin_6:

(Start: 8 @2909 has 44 MA's), (40, 3179),

Gene: Trax_31 Start: 27414, Stop: 27719, Start Num: 14

Candidate Starts for Trax_31:

(11, 27402), (Start: 14 @27414 has 16 MA's), (17, 27450), (19, 27477), (22, 27501), (23, 27522), (27, 27534), (37, 27597),

Gene: Trufflozitus_2 Start: 472, Stop: 825, Start Num: 7

Candidate Starts for Trufflozitus_2:

(Start: 7 @472 has 20 MA's), (13, 505), (28, 637), (29, 640), (40, 745),

Gene: TuertoX_27 Start: 22291, Stop: 22599, Start Num: 14

Candidate Starts for TuertoX_27:

(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Untouchable_5 Start: 1838, Stop: 2188, Start Num: 8

Candidate Starts for Untouchable_5:

(Start: 8 @1838 has 44 MA's), (40, 2108),

Gene: Vardy_6 Start: 2911, Stop: 3261, Start Num: 8

Candidate Starts for Vardy_6:

(Start: 8 @2911 has 44 MA's), (40, 3181),

Gene: Whiteclaw_27 Start: 22291, Stop: 22599, Start Num: 14

Candidate Starts for Whiteclaw_27:

(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Yeet412_27 Start: 22281, Stop: 22592, Start Num: 12

Candidate Starts for Yeet412_27:

(Start: 12 @22281 has 10 MA's), (Start: 14 @22284 has 16 MA's), (19, 22347), (25, 22398), (37, 22467), (45, 22572),

Gene: Yinzer_27 Start: 22288, Stop: 22599, Start Num: 12

Candidate Starts for Yinzer_27:

(Start: 12 @22288 has 10 MA's), (Start: 14 @22291 has 16 MA's), (19, 22354), (37, 22474), (45, 22579),

Gene: Yvonnetastic_54 Start: 38703, Stop: 39056, Start Num: 8

Candidate Starts for Yvonnetastic_54:

(Start: 8 @38703 has 44 MA's), (15, 38751), (20, 38802), (24, 38844), (26, 38850), (37, 38919), (38, 38931), (39, 38955), (43, 39009), (49, 39045),

Gene: Zeph_5 Start: 2097, Stop: 2447, Start Num: 8

Candidate Starts for Zeph_5:

(Start: 8 @2097 has 44 MA's), (35, 2304),