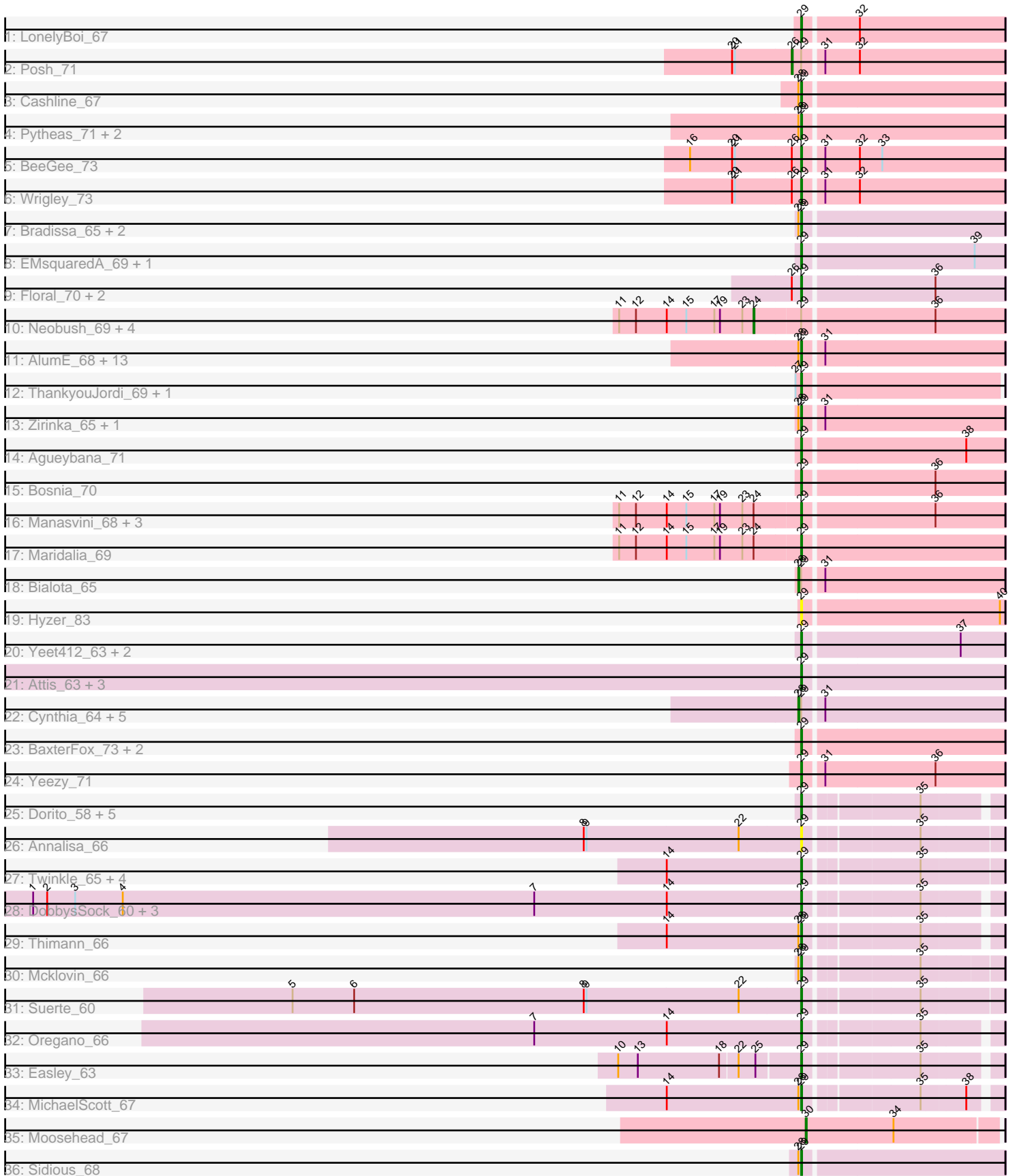


Pham 163520



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 163520 Report

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

Pham number 163520 has 89 members, 7 are drafts.

Phages represented in each track:

- Track 1 : LonelyBoi_67
- Track 2 : Posh_71
- Track 3 : Cashline_67
- Track 4 : Pytheas_71, Angelique_64, Jablanski_71
- Track 5 : BeeGee_73
- Track 6 : Wrigley_73
- Track 7 : Bradissa_65, Lilas_65, EnalisNailo_64
- Track 8 : EMSquaredA_69, Marteena_68
- Track 9 : Floral_70, Pollux_72, Nettuno_61
- Track 10 : Neobush_69, Trumpet_67, Suscepit_67, Tayonia_67, Zameen_67
- Track 11 : AlumE_68, JCole_60, TuertoX_64, Ebert_68, PantheRoc_73, Whiteclaw_64, Hugley_68, Clap_64, Gizermo_64, GemG_64, Sahara_63, BoyNamedSue_68, Lamberg_60, Haley23_64
- Track 12 : ThankyouJordi_69, WelcomeAyanna_69
- Track 13 : Zirinka_65, Matteo_58
- Track 14 : Agueybana_71
- Track 15 : Bosnia_70
- Track 16 : Manasvini_68, Eudoria_67, Kita_68, Polly_64
- Track 17 : Maridalia_69
- Track 18 : Bialota_65
- Track 19 : Hyzer_83
- Track 20 : Yeet412_63, EdnaMode_63, Pickett_62
- Track 21 : Attis_63, Ohgeesy_68, SoilAssassin_63, LordFarquaad_65
- Track 22 : Cynthia_64, Sproutie_64, Bjanes7_61, Herod_70, Mocha12_64, Savage_64
- Track 23 : BaxterFox_73, Confidence_69, Bunnybear_64
- Track 24 : Yeezy_71
- Track 25 : Dorito_58, WinkNick_66, PhriskyACE_64, Powerball_65, Dolores_66, Sekhmet_65
- Track 26 : Annalisa_66
- Track 27 : Twinkle_65, Adora_63, Shlim410_64, Howe_66, Hortense_66
- Track 28 : DobbysSock_60, Beenie_60, Samman98_66, Clark_65
- Track 29 : Thimann_66
- Track 30 : Mcklovin_66
- Track 31 : Suerte_60
- Track 32 : Oregano_66
- Track 33 : Easley_63

- Track 34 : MichaelScott_67
- Track 35 : Moosehead_67
- Track 36 : Sidious_68

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

The start number called the most often in the published annotations is 29, it was called in 68 of the 82 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_63, Agueybana_71, AlumE_68, Angelique_64, Annalisa_66, Attis_63, BaxterFox_73, BeeGee_73, Beenie_60, Bosnia_70, BoyNamedSue_68, Bradissa_65, Bunnybear_64, Cashline_67, Clap_64, Clark_65, Confidence_69, DobbysSock_60, Dolores_66, Dorito_58, EMSquaredA_69, Easley_63, Ebert_68, EdnaMode_63, EnalisNailo_64, Eudoria_67, Floral_70, GemG_64, Gizermo_64, Haley23_64, Hortense_66, Howe_66, Hugley_68, Hyzer_83, JCole_60, Jablanski_71, Kita_68, Lamberg_60, Lilas_65, LonelyBoi_67, LordFarquaad_65, Manasvini_68, Maridalia_69, Marteena_68, Matteo_58, Mcklovin_66, MichaelScott_67, Nettuno_61, Ohgeesy_68, Oregano_66, PantheRoc_73, PhriskyACE_64, Pickett_62, Pollux_72, Polly_64, Powerball_65, Pytheas_71, Sahara_63, Samman98_66, Sekhmet_65, Shlim410_64, Sidious_68, SoilAssassin_63, Suerte_60, ThankyouJordi_69, Thimann_66, TuertoX_64, Twinkle_65, WelcomeAyanna_69, Whiteclaw_64, WinkNick_66, Wrigley_73, Yeet412_63, Yeezy_71, Zirinka_65,

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

- Bialota_65, Bjanest7_61, Cynthia_64, Herod_70, Mocha12_64, Neobush_69, Posh_71, Savage_64, Sproutie_64, Suscepit_67, Tayonia_67, Trumpet_67, Zameen_67,

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

- Moosehead_67,

Summary by start number:

Start 24:

- Found in 10 of 89 (11.2%) of genes in pham
- Manual Annotations of this start: 5 of 82
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Neobush_69 (CZ1), Suscepit_67 (CZ1), Tayonia_67 (CZ1), Trumpet_67 (CZ1), Zameen_67 (CZ1),

Start 26:

- Found in 6 of 89 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 82
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Posh_71 (CY),

Start 28:

- Found in 34 of 89 (38.2%) of genes in pham

- Manual Annotations of this start: 7 of 82
- Called 20.6% of time when present
- Phage (with cluster) where this start called: Bialota_65 (CZ1), Bjaner7_61 (CZ2), Cynthia_64 (CZ2), Herod_70 (CZ1), Mocha12_64 (CZ2), Savage_64 (CZ2), Sproutie_64 (CZ2),

Start 29:

- Found in 88 of 89 (98.9%) of genes in pham
- Manual Annotations of this start: 68 of 82
- Called 85.2% of time when present
- Phage (with cluster) where this start called: Adora_63 (CZ4), Agueybana_71 (CZ1), AlumE_68 (CZ1), Angelique_64 (CY1), Annalisa_66 (CZ4), Attis_63 (CZ2), BaxterFox_73 (CZ3), BeeGee_73 (CY), Beenie_60 (CZ4), Bosnia_70 (CZ1), BoyNamedSue_68 (CZ1), Bradissa_65 (CY1), Bunnybear_64 (CZ), Cashline_67 (CY), Clap_64 (CZ2), Clark_65 (CZ4), Confidence_69 (CY1), DobbysSock_60 (CZ4), Dolores_66 (CZ4), Dorito_58 (CZ4), EMSquaredA_69 (CY1), Easley_63 (CZ4), Ebert_68 (CZ2), EdnaMode_63 (CZ2), EnalisNailo_64 (CY1), Eudoria_67 (CZ1), Floral_70 (CY1), GemG_64 (CZ2), Gizermo_64 (CZ2), Haley23_64 (CZ2), Hortense_66 (CZ4), Howe_66 (CZ4), Hugley_68 (CZ1), Hyzer_83 (CZ1), JCole_60 (CZ2), Jablanski_71 (CY), Kita_68 (CZ1), Lamberg_60 (CZ2), Lilas_65 (CY1), LonelyBoi_67 (CY), LordFarquaad_65 (CZ2), Manasvini_68 (CZ1), Maridalia_69 (CZ1), Marteena_68 (CY1), Matteo_58 (CZ2), Mcklovin_66 (CZ4), MichaelScott_67 (CZ4), Nettuno_61 (CZ2), Ohgeesy_68 (CZ), Oregon_66 (CZ4), PantheRoc_73 (CZ3), PhriskyACE_64 (CZ4), Pickett_62 (CZ2), Pollux_72 (CY1), Polly_64 (CZ1), Powerball_65 (CZ4), Pytheas_71 (CY), Sahara_63 (CZ2), Samman98_66 (CZ4), Sekhmet_65 (CZ4), Shlim410_64 (CZ4), Sidious_68 (CZ7), SoilAssassin_63 (CZ2), Suerte_60 (CZ4), ThankyouJordi_69 (CZ1), Thimann_66 (CZ4), TuertoX_64 (CZ2), Twinkle_65 (CZ4), WelcomeAyanna_69 (CZ1), Whiteclaw_64 (CZ2), WinkNick_66 (CZ4), Wrigley_73 (CY), Yeet412_63 (CZ2), Yeezy_71 (CZ3), Zirinka_65 (CZ1),

Start 30:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 82
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Moosehead_67 (CZ6),

Summary by clusters:

There are 9 clusters represented in this pham: CY1, CZ2, CZ3, CZ1, CZ6, CZ7, CZ4, CZ, CY,

Info for manual annotations of cluster CY:

- Start number 26 was manually annotated 1 time for cluster CY.
- Start number 29 was manually annotated 6 times for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 29 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 29 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 24 was manually annotated 5 times for cluster CZ1.

- Start number 28 was manually annotated 2 times for cluster CZ1.
- Start number 29 was manually annotated 12 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 28 was manually annotated 5 times for cluster CZ2.
- Start number 29 was manually annotated 16 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 29 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 29 was manually annotated 20 times for cluster CZ4.

Info for manual annotations of cluster CZ6:

- Start number 30 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ7:

- Start number 29 was manually annotated 1 time for cluster CZ7.

Gene Information:

Gene: Adora_63 Start: 44095, Stop: 44289, Start Num: 29

Candidate Starts for Adora_63:

(14, 43951), (Start: 29 @44095 has 68 MA's), (35, 44206),

Gene: Agueybana_71 Start: 47176, Stop: 47385, Start Num: 29

Candidate Starts for Agueybana_71:

(Start: 29 @47176 has 68 MA's), (38, 47344),

Gene: AlumE_68 Start: 47032, Stop: 47241, Start Num: 29

Candidate Starts for AlumE_68:

(Start: 28 @47029 has 7 MA's), (Start: 29 @47032 has 68 MA's), (31, 47050),

Gene: Angelique_64 Start: 45493, Stop: 45702, Start Num: 29

Candidate Starts for Angelique_64:

(Start: 28 @45490 has 7 MA's), (Start: 29 @45493 has 68 MA's),

Gene: Annalisa_66 Start: 42302, Stop: 42496, Start Num: 29

Candidate Starts for Annalisa_66:

(8, 42071), (9, 42074), (22, 42236), (Start: 29 @42302 has 68 MA's), (35, 42413),

Gene: Attis_63 Start: 42906, Stop: 43115, Start Num: 29

Candidate Starts for Attis_63:

(Start: 29 @42906 has 68 MA's),

Gene: BaxterFox_73 Start: 48095, Stop: 48304, Start Num: 29

Candidate Starts for BaxterFox_73:

(Start: 29 @48095 has 68 MA's),

Gene: BeeGee_73 Start: 46616, Stop: 46825, Start Num: 29

Candidate Starts for BeeGee_73:

(16, 46499), (20, 46544), (21, 46547), (Start: 26 @46607 has 1 MA's), (Start: 29 @46616 has 68 MA's), (31, 46634), (32, 46670), (33, 46694),

Gene: Beenie_60 Start: 42143, Stop: 42337, Start Num: 29

Candidate Starts for Beenie_60:

(1, 41321), (2, 41336), (3, 41366), (4, 41417), (7, 41858), (14, 41999), (Start: 29 @42143 has 68 MA's), (35, 42254),

Gene: Bialota_65 Start: 46220, Stop: 46432, Start Num: 28

Candidate Starts for Bialota_65:

(Start: 28 @46220 has 7 MA's), (Start: 29 @46223 has 68 MA's), (31, 46241),

Gene: Bjaner7_61 Start: 40957, Stop: 41169, Start Num: 28

Candidate Starts for Bjaner7_61:

(Start: 28 @40957 has 7 MA's), (Start: 29 @40960 has 68 MA's), (31, 40978),

Gene: Bosnia_70 Start: 48876, Stop: 49085, Start Num: 29

Candidate Starts for Bosnia_70:

(Start: 29 @48876 has 68 MA's), (36, 49011),

Gene: BoyNamedSue_68 Start: 47032, Stop: 47241, Start Num: 29

Candidate Starts for BoyNamedSue_68:

(Start: 28 @47029 has 7 MA's), (Start: 29 @47032 has 68 MA's), (31, 47050),

Gene: Bradissa_65 Start: 46590, Stop: 46799, Start Num: 29

Candidate Starts for Bradissa_65:

(Start: 28 @46587 has 7 MA's), (Start: 29 @46590 has 68 MA's),

Gene: Bunnybear_64 Start: 45915, Stop: 46124, Start Num: 29

Candidate Starts for Bunnybear_64:

(Start: 29 @45915 has 68 MA's),

Gene: Cashline_67 Start: 47329, Stop: 47538, Start Num: 29

Candidate Starts for Cashline_67:

(Start: 28 @47326 has 7 MA's), (Start: 29 @47329 has 68 MA's),

Gene: Clap_64 Start: 41139, Stop: 41348, Start Num: 29

Candidate Starts for Clap_64:

(Start: 28 @41136 has 7 MA's), (Start: 29 @41139 has 68 MA's), (31, 41157),

Gene: Clark_65 Start: 41906, Stop: 42100, Start Num: 29

Candidate Starts for Clark_65:

(1, 41084), (2, 41099), (3, 41129), (4, 41180), (7, 41621), (14, 41762), (Start: 29 @41906 has 68 MA's), (35, 42017),

Gene: Confidence_69 Start: 45016, Stop: 45225, Start Num: 29

Candidate Starts for Confidence_69:

(Start: 29 @45016 has 68 MA's),

Gene: Cynthia_64 Start: 41134, Stop: 41346, Start Num: 28

Candidate Starts for Cynthia_64:

(Start: 28 @41134 has 7 MA's), (Start: 29 @41137 has 68 MA's), (31, 41155),

Gene: DobbysSock_60 Start: 41554, Stop: 41739, Start Num: 29
Candidate Starts for DobbysSock_60:
(1, 40732), (2, 40747), (3, 40777), (4, 40828), (7, 41269), (14, 41410), (Start: 29 @41554 has 68 MA's), (35, 41665),

Gene: Dolores_66 Start: 41837, Stop: 42031, Start Num: 29
Candidate Starts for Dolores_66:
(Start: 29 @41837 has 68 MA's), (35, 41948),

Gene: Dorito_58 Start: 39421, Stop: 39606, Start Num: 29
Candidate Starts for Dorito_58:
(Start: 29 @39421 has 68 MA's), (35, 39532),

Gene: EMSquaredA_69 Start: 46061, Stop: 46270, Start Num: 29
Candidate Starts for EMSquaredA_69:
(Start: 29 @46061 has 68 MA's), (39, 46238),

Gene: Easley_63 Start: 41309, Stop: 41494, Start Num: 29
Candidate Starts for Easley_63:
(10, 41120), (13, 41141), (18, 41228), (22, 41246), (25, 41264), (Start: 29 @41309 has 68 MA's), (35, 41420),

Gene: Ebert_68 Start: 41571, Stop: 41780, Start Num: 29
Candidate Starts for Ebert_68:
(Start: 28 @41568 has 7 MA's), (Start: 29 @41571 has 68 MA's), (31, 41589),

Gene: EdnaMode_63 Start: 41178, Stop: 41387, Start Num: 29
Candidate Starts for EdnaMode_63:
(Start: 29 @41178 has 68 MA's), (37, 41340),

Gene: EnalisNailo_64 Start: 46124, Stop: 46333, Start Num: 29
Candidate Starts for EnalisNailo_64:
(Start: 28 @46121 has 7 MA's), (Start: 29 @46124 has 68 MA's),

Gene: Eudoria_67 Start: 44549, Stop: 44758, Start Num: 29
Candidate Starts for Eudoria_67:
(11, 44357), (12, 44375), (14, 44408), (15, 44429), (17, 44459), (19, 44465), (23, 44489), (Start: 24 @44501 has 5 MA's), (Start: 29 @44549 has 68 MA's), (36, 44684),

Gene: Floral_70 Start: 47949, Stop: 48158, Start Num: 29
Candidate Starts for Floral_70:
(Start: 26 @47940 has 1 MA's), (Start: 29 @47949 has 68 MA's), (36, 48084),

Gene: GemG_64 Start: 41143, Stop: 41352, Start Num: 29
Candidate Starts for GemG_64:
(Start: 28 @41140 has 7 MA's), (Start: 29 @41143 has 68 MA's), (31, 41161),

Gene: Gizermo_64 Start: 41139, Stop: 41348, Start Num: 29
Candidate Starts for Gizermo_64:
(Start: 28 @41136 has 7 MA's), (Start: 29 @41139 has 68 MA's), (31, 41157),

Gene: Haley23_64 Start: 41139, Stop: 41348, Start Num: 29
Candidate Starts for Haley23_64:

(Start: 28 @41136 has 7 MA's), (Start: 29 @41139 has 68 MA's), (31, 41157),

Gene: Herod_70 Start: 47971, Stop: 48183, Start Num: 28

Candidate Starts for Herod_70:

(Start: 28 @47971 has 7 MA's), (Start: 29 @47974 has 68 MA's), (31, 47992),

Gene: Hortense_66 Start: 45450, Stop: 45644, Start Num: 29

Candidate Starts for Hortense_66:

(14, 45306), (Start: 29 @45450 has 68 MA's), (35, 45561),

Gene: Howe_66 Start: 45450, Stop: 45644, Start Num: 29

Candidate Starts for Howe_66:

(14, 45306), (Start: 29 @45450 has 68 MA's), (35, 45561),

Gene: Hugley_68 Start: 47954, Stop: 48163, Start Num: 29

Candidate Starts for Hugley_68:

(Start: 28 @47951 has 7 MA's), (Start: 29 @47954 has 68 MA's), (31, 47972),

Gene: Hyzer_83 Start: 54137, Stop: 54346, Start Num: 29

Candidate Starts for Hyzer_83:

(Start: 29 @54137 has 68 MA's), (40, 54341),

Gene: JCole_60 Start: 39078, Stop: 39287, Start Num: 29

Candidate Starts for JCole_60:

(Start: 28 @39075 has 7 MA's), (Start: 29 @39078 has 68 MA's), (31, 39096),

Gene: Jablanski_71 Start: 48075, Stop: 48284, Start Num: 29

Candidate Starts for Jablanski_71:

(Start: 28 @48072 has 7 MA's), (Start: 29 @48075 has 68 MA's),

Gene: Kita_68 Start: 44558, Stop: 44767, Start Num: 29

Candidate Starts for Kita_68:

(11, 44366), (12, 44384), (14, 44417), (15, 44438), (17, 44468), (19, 44474), (23, 44498), (Start: 24 @44510 has 5 MA's), (Start: 29 @44558 has 68 MA's), (36, 44693),

Gene: Lamberg_60 Start: 39648, Stop: 39857, Start Num: 29

Candidate Starts for Lamberg_60:

(Start: 28 @39645 has 7 MA's), (Start: 29 @39648 has 68 MA's), (31, 39666),

Gene: Lilas_65 Start: 47662, Stop: 47871, Start Num: 29

Candidate Starts for Lilas_65:

(Start: 28 @47659 has 7 MA's), (Start: 29 @47662 has 68 MA's),

Gene: LonelyBoi_67 Start: 48115, Stop: 48324, Start Num: 29

Candidate Starts for LonelyBoi_67:

(Start: 29 @48115 has 68 MA's), (32, 48169),

Gene: LordFarquaad_65 Start: 42887, Stop: 43096, Start Num: 29

Candidate Starts for LordFarquaad_65:

(Start: 29 @42887 has 68 MA's),

Gene: Manasvini_68 Start: 44573, Stop: 44782, Start Num: 29

Candidate Starts for Manasvini_68:

(11, 44381), (12, 44399), (14, 44432), (15, 44453), (17, 44483), (19, 44489), (23, 44513), (Start: 24 @44525 has 5 MA's), (Start: 29 @44573 has 68 MA's), (36, 44708),

Gene: Maridalia_69 Start: 45927, Stop: 46136, Start Num: 29

Candidate Starts for Maridalia_69:

(11, 45735), (12, 45753), (14, 45786), (15, 45807), (17, 45837), (19, 45843), (23, 45867), (Start: 24 @45879 has 5 MA's), (Start: 29 @45927 has 68 MA's),

Gene: Marteena_68 Start: 46061, Stop: 46270, Start Num: 29

Candidate Starts for Marteena_68:

(Start: 29 @46061 has 68 MA's), (39, 46238),

Gene: Matteo_58 Start: 39264, Stop: 39473, Start Num: 29

Candidate Starts for Matteo_58:

(Start: 28 @39261 has 7 MA's), (Start: 29 @39264 has 68 MA's), (31, 39282),

Gene: Mcklovin_66 Start: 48429, Stop: 48620, Start Num: 29

Candidate Starts for Mcklovin_66:

(Start: 28 @48426 has 7 MA's), (Start: 29 @48429 has 68 MA's), (35, 48540),

Gene: MichaelScott_67 Start: 43167, Stop: 43352, Start Num: 29

Candidate Starts for MichaelScott_67:

(14, 43023), (Start: 28 @43164 has 7 MA's), (Start: 29 @43167 has 68 MA's), (35, 43278), (38, 43323),

Gene: Mocha12_64 Start: 41136, Stop: 41348, Start Num: 28

Candidate Starts for Mocha12_64:

(Start: 28 @41136 has 7 MA's), (Start: 29 @41139 has 68 MA's), (31, 41157),

Gene: Moosehead_67 Start: 38275, Stop: 38475, Start Num: 30

Candidate Starts for Moosehead_67:

(Start: 30 @38275 has 1 MA's), (34, 38368),

Gene: Neobush_69 Start: 45069, Stop: 45326, Start Num: 24

Candidate Starts for Neobush_69:

(11, 44925), (12, 44943), (14, 44976), (15, 44997), (17, 45027), (19, 45033), (23, 45057), (Start: 24 @45069 has 5 MA's), (Start: 29 @45117 has 68 MA's), (36, 45252),

Gene: Nettuno_61 Start: 40024, Stop: 40233, Start Num: 29

Candidate Starts for Nettuno_61:

(Start: 26 @40015 has 1 MA's), (Start: 29 @40024 has 68 MA's), (36, 40159),

Gene: Ohgeesy_68 Start: 46352, Stop: 46561, Start Num: 29

Candidate Starts for Ohgeesy_68:

(Start: 29 @46352 has 68 MA's),

Gene: Oregano_66 Start: 42041, Stop: 42226, Start Num: 29

Candidate Starts for Oregano_66:

(7, 41756), (14, 41897), (Start: 29 @42041 has 68 MA's), (35, 42152),

Gene: PantheRoc_73 Start: 47273, Stop: 47482, Start Num: 29

Candidate Starts for PantheRoc_73:

(Start: 28 @47270 has 7 MA's), (Start: 29 @47273 has 68 MA's), (31, 47291),

Gene: PhriskyACE_64 Start: 42390, Stop: 42584, Start Num: 29

Candidate Starts for PhriskyACE_64:

(Start: 29 @42390 has 68 MA's), (35, 42501),

Gene: Pickett_62 Start: 39783, Stop: 39992, Start Num: 29

Candidate Starts for Pickett_62:

(Start: 29 @39783 has 68 MA's), (37, 39945),

Gene: Pollux_72 Start: 47949, Stop: 48158, Start Num: 29

Candidate Starts for Pollux_72:

(Start: 26 @47940 has 1 MA's), (Start: 29 @47949 has 68 MA's), (36, 48084),

Gene: Polly_64 Start: 43992, Stop: 44201, Start Num: 29

Candidate Starts for Polly_64:

(11, 43800), (12, 43818), (14, 43851), (15, 43872), (17, 43902), (19, 43908), (23, 43932), (Start: 24 @43944 has 5 MA's), (Start: 29 @43992 has 68 MA's), (36, 44127),

Gene: Posh_71 Start: 47814, Stop: 48032, Start Num: 26

Candidate Starts for Posh_71:

(20, 47751), (21, 47754), (Start: 26 @47814 has 1 MA's), (Start: 29 @47823 has 68 MA's), (31, 47841), (32, 47877),

Gene: Powerball_65 Start: 42493, Stop: 42687, Start Num: 29

Candidate Starts for Powerball_65:

(Start: 29 @42493 has 68 MA's), (35, 42604),

Gene: Pytheas_71 Start: 48074, Stop: 48283, Start Num: 29

Candidate Starts for Pytheas_71:

(Start: 28 @48071 has 7 MA's), (Start: 29 @48074 has 68 MA's),

Gene: Sahara_63 Start: 40544, Stop: 40753, Start Num: 29

Candidate Starts for Sahara_63:

(Start: 28 @40541 has 7 MA's), (Start: 29 @40544 has 68 MA's), (31, 40562),

Gene: Samman98_66 Start: 42009, Stop: 42203, Start Num: 29

Candidate Starts for Samman98_66:

(1, 41187), (2, 41202), (3, 41232), (4, 41283), (7, 41724), (14, 41865), (Start: 29 @42009 has 68 MA's), (35, 42120),

Gene: Savage_64 Start: 41136, Stop: 41348, Start Num: 28

Candidate Starts for Savage_64:

(Start: 28 @41136 has 7 MA's), (Start: 29 @41139 has 68 MA's), (31, 41157),

Gene: Sekhmet_65 Start: 42236, Stop: 42430, Start Num: 29

Candidate Starts for Sekhmet_65:

(Start: 29 @42236 has 68 MA's), (35, 42347),

Gene: Shlim410_64 Start: 45450, Stop: 45644, Start Num: 29

Candidate Starts for Shlim410_64:

(14, 45306), (Start: 29 @45450 has 68 MA's), (35, 45561),

Gene: Sidious_68 Start: 46860, Stop: 47069, Start Num: 29

Candidate Starts for Sidious_68:

(Start: 28 @46857 has 7 MA's), (Start: 29 @46860 has 68 MA's),

Gene: SoilAssassin_63 Start: 42905, Stop: 43114, Start Num: 29

Candidate Starts for SoilAssassin_63:

(Start: 29 @42905 has 68 MA's),

Gene: Sproutie_64 Start: 41136, Stop: 41348, Start Num: 28

Candidate Starts for Sproutie_64:

(Start: 28 @41136 has 7 MA's), (Start: 29 @41139 has 68 MA's), (31, 41157),

Gene: Suerte_60 Start: 41851, Stop: 42045, Start Num: 29

Candidate Starts for Suerte_60:

(5, 41308), (6, 41374), (8, 41620), (9, 41623), (22, 41785), (Start: 29 @41851 has 68 MA's), (35, 41962),

Gene: Suscepit_67 Start: 44502, Stop: 44759, Start Num: 24

Candidate Starts for Suscepit_67:

(11, 44358), (12, 44376), (14, 44409), (15, 44430), (17, 44460), (19, 44466), (23, 44490), (Start: 24 @44502 has 5 MA's), (Start: 29 @44550 has 68 MA's), (36, 44685),

Gene: Tayonia_67 Start: 44501, Stop: 44758, Start Num: 24

Candidate Starts for Tayonia_67:

(11, 44357), (12, 44375), (14, 44408), (15, 44429), (17, 44459), (19, 44465), (23, 44489), (Start: 24 @44501 has 5 MA's), (Start: 29 @44549 has 68 MA's), (36, 44684),

Gene: ThankyouJordi_69 Start: 48057, Stop: 48260, Start Num: 29

Candidate Starts for ThankyouJordi_69:

(27, 48051), (Start: 29 @48057 has 68 MA's),

Gene: Thimann_66 Start: 42275, Stop: 42460, Start Num: 29

Candidate Starts for Thimann_66:

(14, 42131), (Start: 28 @42272 has 7 MA's), (Start: 29 @42275 has 68 MA's), (35, 42386),

Gene: Trumpet_67 Start: 44502, Stop: 44759, Start Num: 24

Candidate Starts for Trumpet_67:

(11, 44358), (12, 44376), (14, 44409), (15, 44430), (17, 44460), (19, 44466), (23, 44490), (Start: 24 @44502 has 5 MA's), (Start: 29 @44550 has 68 MA's), (36, 44685),

Gene: TuertoX_64 Start: 41139, Stop: 41348, Start Num: 29

Candidate Starts for TuertoX_64:

(Start: 28 @41136 has 7 MA's), (Start: 29 @41139 has 68 MA's), (31, 41157),

Gene: Twinkle_65 Start: 46509, Stop: 46703, Start Num: 29

Candidate Starts for Twinkle_65:

(14, 46365), (Start: 29 @46509 has 68 MA's), (35, 46620),

Gene: WelcomeAyanna_69 Start: 48204, Stop: 48407, Start Num: 29

Candidate Starts for WelcomeAyanna_69:

(27, 48198), (Start: 29 @48204 has 68 MA's),

Gene: Whiteclaw_64 Start: 41139, Stop: 41348, Start Num: 29

Candidate Starts for Whiteclaw_64:

(Start: 28 @41136 has 7 MA's), (Start: 29 @41139 has 68 MA's), (31, 41157),

Gene: WinkNick_66 Start: 41760, Stop: 41954, Start Num: 29

Candidate Starts for WinkNick_66:

(Start: 29 @41760 has 68 MA's), (35, 41871),

Gene: Wrigley_73 Start: 47406, Stop: 47615, Start Num: 29

Candidate Starts for Wrigley_73:

(20, 47334), (21, 47337), (Start: 26 @47397 has 1 MA's), (Start: 29 @47406 has 68 MA's), (31, 47424), (32, 47460),

Gene: Yeet412_63 Start: 42069, Stop: 42278, Start Num: 29

Candidate Starts for Yeet412_63:

(Start: 29 @42069 has 68 MA's), (37, 42231),

Gene: Yeezy_71 Start: 45402, Stop: 45611, Start Num: 29

Candidate Starts for Yeezy_71:

(Start: 29 @45402 has 68 MA's), (31, 45420), (36, 45537),

Gene: Zameen_67 Start: 44501, Stop: 44758, Start Num: 24

Candidate Starts for Zameen_67:

(11, 44357), (12, 44375), (14, 44408), (15, 44429), (17, 44459), (19, 44465), (23, 44489), (Start: 24 @44501 has 5 MA's), (Start: 29 @44549 has 68 MA's), (36, 44684),

Gene: Zirinka_65 Start: 46211, Stop: 46420, Start Num: 29

Candidate Starts for Zirinka_65:

(Start: 28 @46208 has 7 MA's), (Start: 29 @46211 has 68 MA's), (31, 46229),