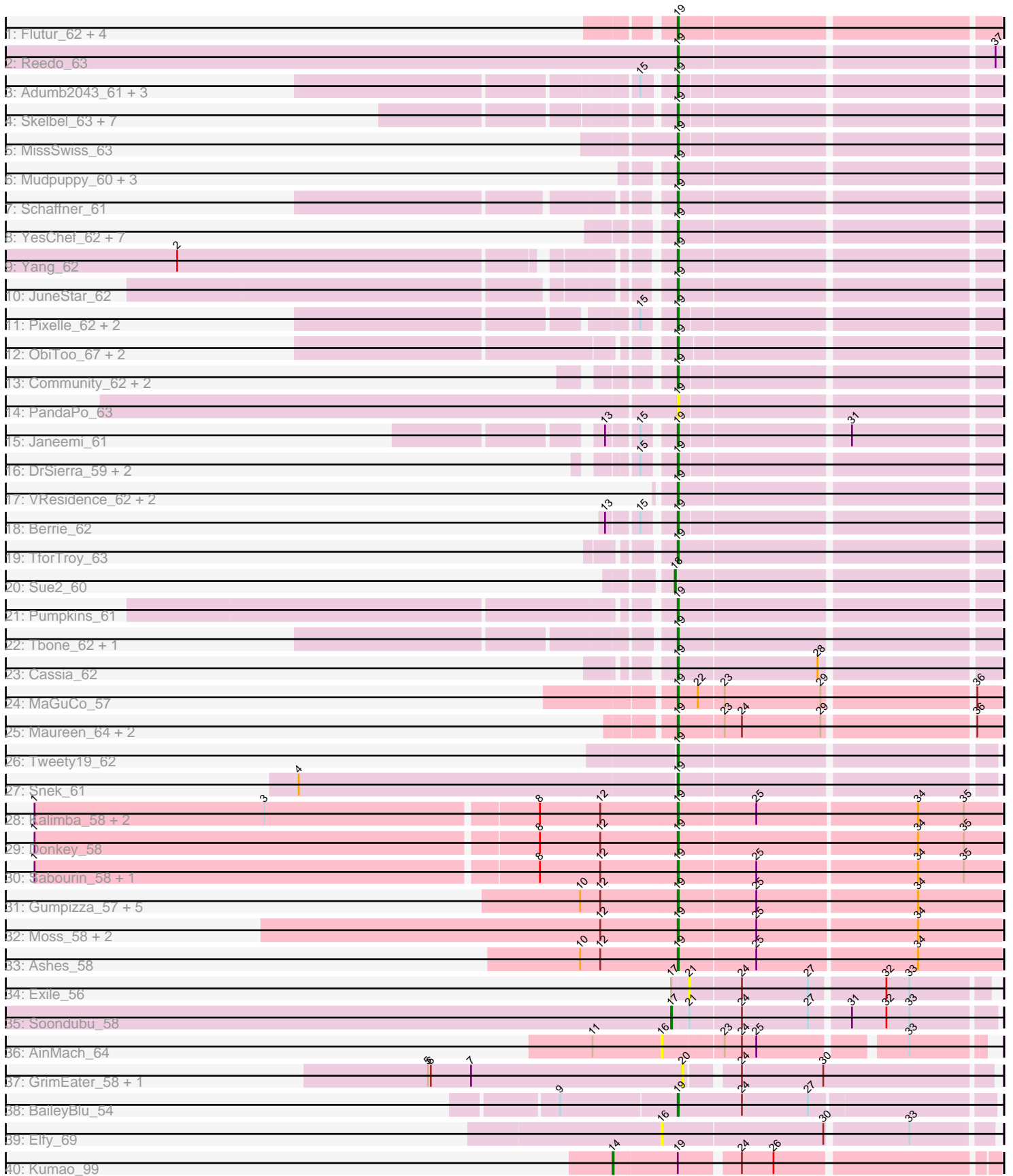


Pham 292719



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 292719 Report

This analysis was run 04/18/26 on database version 643.

Pham number 292719 has 88 members, 18 are drafts.

Phages represented in each track:

- Track 1 : Flutur_62, Simpson_66, Tallboi_62, Joemato_63, Nitro_63
- Track 2 : Reedo_63
- Track 3 : Adumb2043_61, AEgle_60, Turab_61, Amploria_62
- Track 4 : Skelbel_63, Eraser_62, Jstan_63, Asa16_62, London_62, Niobe_62, Elezi_61, Subaru_62
- Track 5 : MissSwiss_63
- Track 6 : Mudpuppy_60, Lego_62, Kaylissa_64, Lizalica_61
- Track 7 : Schaffner_61
- Track 8 : YesChef_62, Iter_63, AGrandiflora_64, Cyan_63, Tutumahutu_64, Ascela_64, Powerpuff_64, JohnDoe_63
- Track 9 : Yang_62
- Track 10 : JuneStar_62
- Track 11 : Pixelle_62, Tian_61, Amyev_62
- Track 12 : ObiToo_67, IttyBittyPiggy_62, Crewmate_67
- Track 13 : Community_62, Tuck_62, Phives_63
- Track 14 : PandaPo_63
- Track 15 : Janeemi_61
- Track 16 : DrSierra_59, KeAlii_60, Wildwest_58
- Track 17 : VResidence_62, DrManhattan_65, Adolin_64
- Track 18 : Berrie_62
- Track 19 : TforTroy_63
- Track 20 : Sue2_60
- Track 21 : Pumpkins_61
- Track 22 : Tbone_62, Warda_63
- Track 23 : Cassia_62
- Track 24 : MaGuCo_57
- Track 25 : Maureen_64, IUFootball_64, Liebe_64
- Track 26 : Tweety19_62
- Track 27 : Snek_61
- Track 28 : Kalimba_58, Cappuccino_58, Sooty_58
- Track 29 : Donkey_58
- Track 30 : Sabourin_58, Gambol_59
- Track 31 : Gumpizza_57, Giorgio_57, RockScotty_57, Mysterium_57, Stuu_58, Beaupre_57
- Track 32 : Moss_58, Halsey_58, SpecialK_58
- Track 33 : Ashes_58
- Track 34 : Exile_56

- Track 35 : Soondubu_58
- Track 36 : AinMach_64
- Track 37 : GrimEater_58, Jankie_60
- Track 38 : BaileyBlu_54
- Track 39 : Elfy_69
- Track 40 : Kumao_99

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

The start number called the most often in the published annotations is 19, it was called in 67 of the 70 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_60, AGrandiflora_64, Adolin_64, Adumb2043_61, Amploria_62, Amyev_62, Asa16_62, Ascela_64, Ashes_58, BaileyBlu_54, Beaupre_57, Berrie_62, Cappuccino_58, Cassia_62, Community_62, Crewmate_67, Cyan_63, Donkey_58, DrManhattan_65, DrSierra_59, Elezi_61, Eraser_62, Flutur_62, Gambol_59, Giorgio_57, Gumpizza_57, Halsey_58, IUFootball_64, Iter_63, IttyBittyPiggy_62, Janeemi_61, Joemato_63, JohnDoe_63, Jstan_63, JuneStar_62, Kalimba_58, Kaylissa_64, KeAlii_60, Lego_62, Liebe_64, Lizalica_61, London_62, MaGuCo_57, Maureen_64, MissSwiss_63, Moss_58, Mudpuppy_60, Mysterium_57, Niobe_62, Nitro_63, ObiToo_67, PandaPo_63, Phives_63, Pixelle_62, Powerpuff_64, Pumpkins_61, Reedo_63, RockScotty_57, Sabourin_58, Schaffner_61, Simpson_66, Skelbel_63, Snek_61, Sooty_58, SpecialK_58, Stuu_58, Subaru_62, Tallboi_62, Tbone_62, TforTroy_63, Tian_61, Tuck_62, Turab_61, Tutumahutu_64, Tweety19_62, VResidence_62, Warda_63, Wildwest_58, Yang_62, YesChef_62,

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

- Kumao_99,

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

- AinMach_64, Elfy_69, Exile_56, GrimEater_58, Jankie_60, Soondubu_58, Sue2_60,

Summary by start number:

Start 14:

- Found in 1 of 88 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao_99 (singleton),

Start 16:

- Found in 2 of 88 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AinMach_64 (AZ7), Elfy_69 (FP),

Start 17:

- Found in 2 of 88 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 70

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Soondubu_58 (AZ6),

Start 18:

- Found in 1 of 88 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sue2_60 (AZ1),

Start 19:

- Found in 81 of 88 (92.0%) of genes in pham
- Manual Annotations of this start: 67 of 70
- Called 98.8% of time when present
- Phage (with cluster) where this start called: AEgle_60 (AZ1), AGrandiflora_64 (AZ1), Adolin_64 (AZ1), Adumb2043_61 (AZ1), Amploria_62 (AZ1), Amyev_62 (AZ1), Asa16_62 (AZ1), Ascela_64 (AZ1), Ashes_58 (AZ5), BaileyBlu_54 (FP), Beaupre_57 (AZ5), Berrie_62 (AZ1), Cappuccino_58 (AZ5), Cassia_62 (AZ1), Community_62 (AZ1), Crewmate_67 (AZ1), Cyan_63 (AZ1), Donkey_58 (AZ5), DrManhattan_65 (AZ1), DrSierra_59 (AZ1), Elezi_61 (AZ1), Eraser_62 (AZ1), Flutur_62 (AZ), Gambol_59 (AZ5), Giorgio_57 (AZ5), Gumpizza_57 (AZ5), Halsey_58 (AZ5), IUFootball_64 (AZ2), Iter_63 (AZ1), IttyBittyPiggy_62 (AZ1), Janeemi_61 (AZ1), Joemato_63 (AZ1), JohnDoe_63 (AZ1), Jstan_63 (AZ1), JuneStar_62 (AZ1), Kalimba_58 (AZ5), Kaylissa_64 (AZ1), KeAlii_60 (AZ1), Lego_62 (AZ1), Liebe_64 (AZ2), Lizalica_61 (AZ1), London_62 (AZ1), MaGuCo_57 (AZ2), Maureen_64 (AZ2), MissSwiss_63 (AZ1), Moss_58 (AZ5), Mudpuppy_60 (AZ1), Mysterium_57 (AZ5), Niobe_62 (AZ1), Nitro_63 (AZ1), ObiToo_67 (AZ1), PandaPo_63 (AZ1), Phives_63 (AZ1), Pixelle_62 (AZ1), Powerpuff_64 (AZ1), Pumpkins_61 (AZ1), Reedo_63 (AZ1), RockScotty_57 (AZ5), Sabourin_58 (AZ5), Schaffner_61 (AZ1), Simpson_66 (AZ1), Skelbel_63 (AZ1), Snek_61 (AZ3), Sooty_58 (AZ5), SpecialK_58 (AZ5), Stuu_58 (AZ5), Subaru_62 (AZ1), Tallboi_62 (AZ1), Tbone_62 (AZ1), TforTroy_63 (AZ1), Tian_61 (AZ1), Tuck_62 (AZ1), Turab_61 (AZ1), Tutumahutu_64 (AZ1), Tweety19_62 (AZ3), VResidence_62 (AZ1), Warda_63 (AZ1), Wildwest_58 (AZ1), Yang_62 (AZ1), YesChef_62 (AZ1),

Start 20:

- Found in 2 of 88 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GrimEater_58 (FP), Jankie_60 (FP),

Start 21:

- Found in 2 of 88 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Exile_56 (AZ6),

Summary by clusters:

There are 9 clusters represented in this pham: FP, singleton, AZ, AZ1, AZ2, AZ3, AZ5, AZ6, AZ7,

Info for manual annotations of cluster AZ1:

- Start number 18 was manually annotated 1 time for cluster AZ1.
- Start number 19 was manually annotated 45 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 19 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 19 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ5:

- Start number 19 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:

- Start number 17 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster FP:

- Start number 19 was manually annotated 1 time for cluster FP.

Gene Information:

Gene: AEgle_60 Start: 40834, Stop: 41145, Start Num: 19

Candidate Starts for AEgle_60:

(15, 40807), (Start: 19 @40834 has 67 MA's),

Gene: AGrandiflora_64 Start: 41727, Stop: 42041, Start Num: 19

Candidate Starts for AGrandiflora_64:

(Start: 19 @41727 has 67 MA's),

Gene: Adolin_64 Start: 40621, Stop: 40935, Start Num: 19

Candidate Starts for Adolin_64:

(Start: 19 @40621 has 67 MA's),

Gene: Adumb2043_61 Start: 40858, Stop: 41169, Start Num: 19

Candidate Starts for Adumb2043_61:

(15, 40831), (Start: 19 @40858 has 67 MA's),

Gene: AinMach_64 Start: 40671, Stop: 40973, Start Num: 16

Candidate Starts for AinMach_64:

(11, 40599), (16, 40671), (23, 40731), (24, 40749), (25, 40764), (33, 40902),

Gene: Amploria_62 Start: 41038, Stop: 41349, Start Num: 19

Candidate Starts for Amploria_62:

(15, 41011), (Start: 19 @41038 has 67 MA's),

Gene: Amyev_62 Start: 42418, Stop: 42732, Start Num: 19

Candidate Starts for Amyev_62:

(15, 42391), (Start: 19 @42418 has 67 MA's),

Gene: Asa16_62 Start: 41419, Stop: 41730, Start Num: 19

Candidate Starts for Asa16_62:

(Start: 19 @41419 has 67 MA's),

Gene: Ascela_64 Start: 41907, Stop: 42221, Start Num: 19

Candidate Starts for Ascela_64:

(Start: 19 @41907 has 67 MA's),

Gene: Ashes_58 Start: 38079, Stop: 38405, Start Num: 19

Candidate Starts for Ashes_58:

(10, 37980), (12, 38001), (Start: 19 @38079 has 67 MA's), (25, 38157), (34, 38319),

Gene: BaileyBlu_54 Start: 37900, Stop: 38214, Start Num: 19

Candidate Starts for BaileyBlu_54:

(9, 37780), (Start: 19 @37900 has 67 MA's), (24, 37966), (27, 38035),

Gene: Beaupre_57 Start: 37889, Stop: 38215, Start Num: 19

Candidate Starts for Beaupre_57:

(10, 37790), (12, 37811), (Start: 19 @37889 has 67 MA's), (25, 37967), (34, 38129),

Gene: Berrie_62 Start: 41517, Stop: 41828, Start Num: 19

Candidate Starts for Berrie_62:

(13, 41463), (15, 41490), (Start: 19 @41517 has 67 MA's),

Gene: Cappuccino_58 Start: 37929, Stop: 38255, Start Num: 19

Candidate Starts for Cappuccino_58:

(1, 37272), (3, 37512), (8, 37788), (12, 37851), (Start: 19 @37929 has 67 MA's), (25, 38007), (34, 38169), (35, 38217),

Gene: Cassia_62 Start: 41532, Stop: 41846, Start Num: 19

Candidate Starts for Cassia_62:

(Start: 19 @41532 has 67 MA's), (28, 41673),

Gene: Community_62 Start: 41790, Stop: 42101, Start Num: 19

Candidate Starts for Community_62:

(Start: 19 @41790 has 67 MA's),

Gene: Crewmate_67 Start: 42141, Stop: 42452, Start Num: 19

Candidate Starts for Crewmate_67:

(Start: 19 @42141 has 67 MA's),

Gene: Cyan_63 Start: 41471, Stop: 41785, Start Num: 19

Candidate Starts for Cyan_63:

(Start: 19 @41471 has 67 MA's),

Gene: Donkey_58 Start: 37919, Stop: 38245, Start Num: 19

Candidate Starts for Donkey_58:

(1, 37262), (8, 37778), (12, 37841), (Start: 19 @37919 has 67 MA's), (34, 38159), (35, 38207),

Gene: DrManhattan_65 Start: 40175, Stop: 40489, Start Num: 19

Candidate Starts for DrManhattan_65:

(Start: 19 @40175 has 67 MA's),

Gene: DrSierra_59 Start: 40307, Stop: 40618, Start Num: 19

Candidate Starts for DrSierra_59:

(15, 40280), (Start: 19 @40307 has 67 MA's),

Gene: Elezi_61 Start: 41176, Stop: 41487, Start Num: 19

Candidate Starts for Elezi_61:

(Start: 19 @41176 has 67 MA's),

Gene: Elfy_69 Start: 40687, Stop: 41013, Start Num: 16

Candidate Starts for Elfy_69:

(16, 40687), (30, 40852), (33, 40933),

Gene: Eraser_62 Start: 41426, Stop: 41737, Start Num: 19

Candidate Starts for Eraser_62:

(Start: 19 @41426 has 67 MA's),

Gene: Exile_56 Start: 42346, Stop: 42639, Start Num: 21

Candidate Starts for Exile_56:

(Start: 17 @42331 has 1 MA's), (21, 42346), (24, 42397), (27, 42466), (32, 42538), (33, 42562),

Gene: Flutur_62 Start: 41752, Stop: 42066, Start Num: 19

Candidate Starts for Flutur_62:

(Start: 19 @41752 has 67 MA's),

Gene: Gambol_59 Start: 37938, Stop: 38264, Start Num: 19

Candidate Starts for Gambol_59:

(1, 37281), (8, 37797), (12, 37860), (Start: 19 @37938 has 67 MA's), (25, 38016), (34, 38178), (35, 38226),

Gene: Giorgio_57 Start: 37872, Stop: 38198, Start Num: 19

Candidate Starts for Giorgio_57:

(10, 37773), (12, 37794), (Start: 19 @37872 has 67 MA's), (25, 37950), (34, 38112),

Gene: GrimEater_58 Start: 38861, Stop: 39160, Start Num: 20

Candidate Starts for GrimEater_58:

(5, 38597), (6, 38600), (7, 38642), (20, 38861), (24, 38906), (30, 38990),

Gene: Gumpizza_57 Start: 37828, Stop: 38154, Start Num: 19

Candidate Starts for Gumpizza_57:

(10, 37729), (12, 37750), (Start: 19 @37828 has 67 MA's), (25, 37906), (34, 38068),

Gene: Halsey_58 Start: 38069, Stop: 38395, Start Num: 19

Candidate Starts for Halsey_58:

(12, 37991), (Start: 19 @38069 has 67 MA's), (25, 38147), (34, 38309),

Gene: IUFootball_64 Start: 43444, Stop: 43758, Start Num: 19

Candidate Starts for IUFootball_64:

(Start: 19 @43444 has 67 MA's), (23, 43489), (24, 43507), (29, 43588), (36, 43735),

Gene: Iter_63 Start: 41678, Stop: 41992, Start Num: 19

Candidate Starts for Iter_63:

(Start: 19 @41678 has 67 MA's),

Gene: IttyBittyPiggy_62 Start: 39776, Stop: 40090, Start Num: 19

Candidate Starts for IttyBittyPiggy_62:

(Start: 19 @39776 has 67 MA's),

Gene: Janeemi_61 Start: 41291, Stop: 41602, Start Num: 19
Candidate Starts for Janeemi_61:
(13, 41237), (15, 41264), (Start: 19 @41291 has 67 MA's), (31, 41456),

Gene: Jankie_60 Start: 39043, Stop: 39342, Start Num: 20
Candidate Starts for Jankie_60:
(5, 38779), (6, 38782), (7, 38824), (20, 39043), (24, 39088), (30, 39172),

Gene: Joemato_63 Start: 41527, Stop: 41841, Start Num: 19
Candidate Starts for Joemato_63:
(Start: 19 @41527 has 67 MA's),

Gene: JohnDoe_63 Start: 41565, Stop: 41879, Start Num: 19
Candidate Starts for JohnDoe_63:
(Start: 19 @41565 has 67 MA's),

Gene: Jstan_63 Start: 41180, Stop: 41491, Start Num: 19
Candidate Starts for Jstan_63:
(Start: 19 @41180 has 67 MA's),

Gene: JuneStar_62 Start: 42627, Stop: 42941, Start Num: 19
Candidate Starts for JuneStar_62:
(Start: 19 @42627 has 67 MA's),

Gene: Kalimba_58 Start: 37916, Stop: 38242, Start Num: 19
Candidate Starts for Kalimba_58:
(1, 37259), (3, 37499), (8, 37775), (12, 37838), (Start: 19 @37916 has 67 MA's), (25, 37994), (34, 38156), (35, 38204),

Gene: Kaylissa_64 Start: 41927, Stop: 42241, Start Num: 19
Candidate Starts for Kaylissa_64:
(Start: 19 @41927 has 67 MA's),

Gene: KeAlii_60 Start: 39873, Stop: 40187, Start Num: 19
Candidate Starts for KeAlii_60:
(15, 39846), (Start: 19 @39873 has 67 MA's),

Gene: Kumao_99 Start: 61525, Stop: 61157, Start Num: 14
Candidate Starts for Kumao_99:
(Start: 14 @61525 has 1 MA's), (Start: 19 @61459 has 67 MA's), (24, 61405), (26, 61372),

Gene: Lego_62 Start: 41246, Stop: 41560, Start Num: 19
Candidate Starts for Lego_62:
(Start: 19 @41246 has 67 MA's),

Gene: Liebe_64 Start: 43443, Stop: 43757, Start Num: 19
Candidate Starts for Liebe_64:
(Start: 19 @43443 has 67 MA's), (23, 43488), (24, 43506), (29, 43587), (36, 43734),

Gene: Lizalica_61 Start: 40721, Stop: 41032, Start Num: 19
Candidate Starts for Lizalica_61:

(Start: 19 @40721 has 67 MA's),

Gene: London_62 Start: 41417, Stop: 41728, Start Num: 19

Candidate Starts for London_62:

(Start: 19 @41417 has 67 MA's),

Gene: MaGuCo_57 Start: 41443, Stop: 41757, Start Num: 19

Candidate Starts for MaGuCo_57:

(Start: 19 @41443 has 67 MA's), (22, 41464), (23, 41488), (29, 41587), (36, 41734),

Gene: Maureen_64 Start: 43442, Stop: 43756, Start Num: 19

Candidate Starts for Maureen_64:

(Start: 19 @43442 has 67 MA's), (23, 43487), (24, 43505), (29, 43586), (36, 43733),

Gene: MissSwiss_63 Start: 40182, Stop: 40493, Start Num: 19

Candidate Starts for MissSwiss_63:

(Start: 19 @40182 has 67 MA's),

Gene: Moss_58 Start: 38016, Stop: 38342, Start Num: 19

Candidate Starts for Moss_58:

(12, 37938), (Start: 19 @38016 has 67 MA's), (25, 38094), (34, 38256),

Gene: Mudpuppy_60 Start: 41493, Stop: 41807, Start Num: 19

Candidate Starts for Mudpuppy_60:

(Start: 19 @41493 has 67 MA's),

Gene: Mysterium_57 Start: 37857, Stop: 38183, Start Num: 19

Candidate Starts for Mysterium_57:

(10, 37758), (12, 37779), (Start: 19 @37857 has 67 MA's), (25, 37935), (34, 38097),

Gene: Niobe_62 Start: 41420, Stop: 41731, Start Num: 19

Candidate Starts for Niobe_62:

(Start: 19 @41420 has 67 MA's),

Gene: Nitro_63 Start: 42114, Stop: 42428, Start Num: 19

Candidate Starts for Nitro_63:

(Start: 19 @42114 has 67 MA's),

Gene: ObiToo_67 Start: 41757, Stop: 42068, Start Num: 19

Candidate Starts for ObiToo_67:

(Start: 19 @41757 has 67 MA's),

Gene: PandaPo_63 Start: 40189, Stop: 40500, Start Num: 19

Candidate Starts for PandaPo_63:

(Start: 19 @40189 has 67 MA's),

Gene: Phives_63 Start: 41905, Stop: 42216, Start Num: 19

Candidate Starts for Phives_63:

(Start: 19 @41905 has 67 MA's),

Gene: Pixelle_62 Start: 42519, Stop: 42833, Start Num: 19

Candidate Starts for Pixelle_62:

(15, 42492), (Start: 19 @42519 has 67 MA's),

Gene: Powerpuff_64 Start: 42450, Stop: 42764, Start Num: 19
Candidate Starts for Powerpuff_64:
(Start: 19 @42450 has 67 MA's),

Gene: Pumpkins_61 Start: 42050, Stop: 42364, Start Num: 19
Candidate Starts for Pumpkins_61:
(Start: 19 @42050 has 67 MA's),

Gene: Reedo_63 Start: 40030, Stop: 40344, Start Num: 19
Candidate Starts for Reedo_63:
(Start: 19 @40030 has 67 MA's), (37, 40339),

Gene: RockScotty_57 Start: 37852, Stop: 38178, Start Num: 19
Candidate Starts for RockScotty_57:
(10, 37753), (12, 37774), (Start: 19 @37852 has 67 MA's), (25, 37930), (34, 38092),

Gene: Sabourin_58 Start: 37917, Stop: 38243, Start Num: 19
Candidate Starts for Sabourin_58:
(1, 37260), (8, 37776), (12, 37839), (Start: 19 @37917 has 67 MA's), (25, 37995), (34, 38157), (35, 38205),

Gene: Schaffner_61 Start: 41733, Stop: 42047, Start Num: 19
Candidate Starts for Schaffner_61:
(Start: 19 @41733 has 67 MA's),

Gene: Simpson_66 Start: 41531, Stop: 41845, Start Num: 19
Candidate Starts for Simpson_66:
(Start: 19 @41531 has 67 MA's),

Gene: Skelbel_63 Start: 41420, Stop: 41731, Start Num: 19
Candidate Starts for Skelbel_63:
(Start: 19 @41420 has 67 MA's),

Gene: Snek_61 Start: 38593, Stop: 38904, Start Num: 19
Candidate Starts for Snek_61:
(4, 38203), (Start: 19 @38593 has 67 MA's),

Gene: Soondubu_58 Start: 42991, Stop: 43305, Start Num: 17
Candidate Starts for Soondubu_58:
(Start: 17 @42991 has 1 MA's), (21, 43006), (24, 43057), (27, 43126), (31, 43162), (32, 43198), (33, 43222),

Gene: Sooty_58 Start: 37931, Stop: 38257, Start Num: 19
Candidate Starts for Sooty_58:
(1, 37274), (3, 37514), (8, 37790), (12, 37853), (Start: 19 @37931 has 67 MA's), (25, 38009), (34, 38171), (35, 38219),

Gene: SpecialK_58 Start: 37925, Stop: 38251, Start Num: 19
Candidate Starts for SpecialK_58:
(12, 37847), (Start: 19 @37925 has 67 MA's), (25, 38003), (34, 38165),

Gene: Stuu_58 Start: 38034, Stop: 38360, Start Num: 19

Candidate Starts for Stuu_58:
(10, 37935), (12, 37956), (Start: 19 @38034 has 67 MA's), (25, 38112), (34, 38274),

Gene: Subaru_62 Start: 41176, Stop: 41487, Start Num: 19
Candidate Starts for Subaru_62:
(Start: 19 @41176 has 67 MA's),

Gene: Sue2_60 Start: 39873, Stop: 40190, Start Num: 18
Candidate Starts for Sue2_60:
(Start: 18 @39873 has 1 MA's),

Gene: Tallboi_62 Start: 41422, Stop: 41733, Start Num: 19
Candidate Starts for Tallboi_62:
(Start: 19 @41422 has 67 MA's),

Gene: Tbone_62 Start: 41901, Stop: 42215, Start Num: 19
Candidate Starts for Tbone_62:
(Start: 19 @41901 has 67 MA's),

Gene: TforTroy_63 Start: 41704, Stop: 42018, Start Num: 19
Candidate Starts for TforTroy_63:
(Start: 19 @41704 has 67 MA's),

Gene: Tian_61 Start: 42417, Stop: 42731, Start Num: 19
Candidate Starts for Tian_61:
(15, 42390), (Start: 19 @42417 has 67 MA's),

Gene: Tuck_62 Start: 41693, Stop: 42004, Start Num: 19
Candidate Starts for Tuck_62:
(Start: 19 @41693 has 67 MA's),

Gene: Turab_61 Start: 40878, Stop: 41189, Start Num: 19
Candidate Starts for Turab_61:
(15, 40851), (Start: 19 @40878 has 67 MA's),

Gene: Tutumahutu_64 Start: 41493, Stop: 41807, Start Num: 19
Candidate Starts for Tutumahutu_64:
(Start: 19 @41493 has 67 MA's),

Gene: Tweety19_62 Start: 38594, Stop: 38905, Start Num: 19
Candidate Starts for Tweety19_62:
(Start: 19 @38594 has 67 MA's),

Gene: VResidence_62 Start: 39424, Stop: 39738, Start Num: 19
Candidate Starts for VResidence_62:
(Start: 19 @39424 has 67 MA's),

Gene: Warda_63 Start: 41627, Stop: 41941, Start Num: 19
Candidate Starts for Warda_63:
(Start: 19 @41627 has 67 MA's),

Gene: Wildwest_58 Start: 41296, Stop: 41607, Start Num: 19
Candidate Starts for Wildwest_58:

(15, 41269), (Start: 19 @41296 has 67 MA's),

Gene: Yang_62 Start: 41347, Stop: 41661, Start Num: 19

Candidate Starts for Yang_62:

(2, 40882), (Start: 19 @41347 has 67 MA's),

Gene: YesChef_62 Start: 41309, Stop: 41623, Start Num: 19

Candidate Starts for YesChef_62:

(Start: 19 @41309 has 67 MA's),