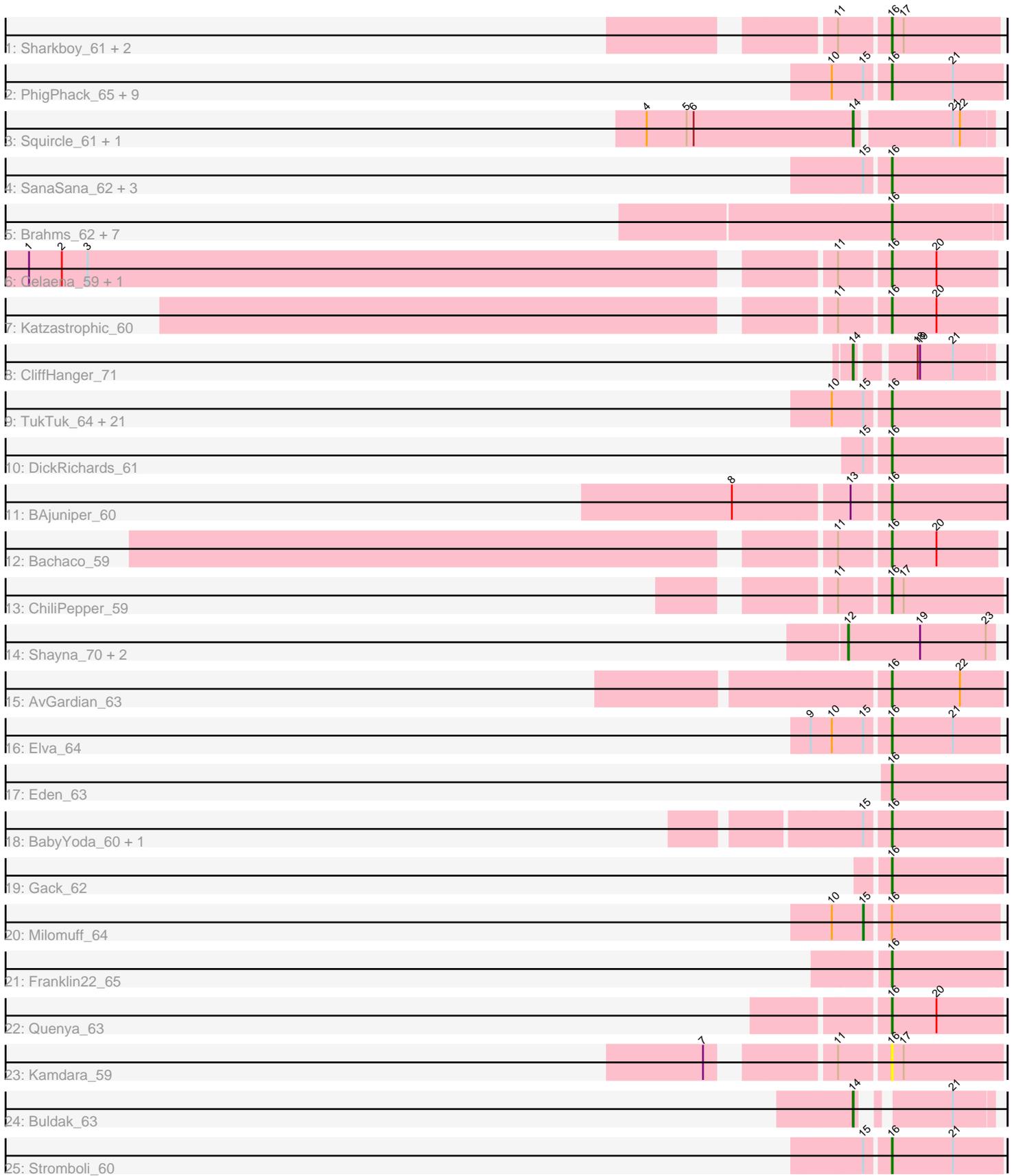


Pham 283765



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 283765 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283765 has 72 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Sharkboy_61, Kieran_59, Rona_59
- Track 2 : PhigPhack_65, Albedo_64, BubbaBear_62, IndyLu_65, Abigail_62, Softsoap_64, SirBeanington_63, Phisb_64, Didgeridoo_68, Albright_62
- Track 3 : Squirrel_61, Olliecat_61
- Track 4 : SanaSana_62, Stoor_60, Icarian_63, DirtyBubble_60
- Track 5 : Brahms_62, Bernstein_62, Clayda5_64, Rollins_62, Skylord_62, Vitas_62, Armstrong_62, Coltrane_62
- Track 6 : Celaena_59, FlameThrower_58
- Track 7 : Katzastrophic_60
- Track 8 : CliffHanger_71
- Track 9 : TukTuk_64, Cashington_62, Finalfrontier_63, Jabb_62, Solea_65, Pecas_63, Johnathan_62, Avocadoman_62, Lilo27_64, BelmontSKP_62, CroZenni_63, MsUbiquitous_62, Swervy_63, Jovita_61, Kenzers_62, QMacho_64, Eula_62, Doobus_61, Slay_64, Lynlen_63, AylexOG_64, SarBear_63
- Track 10 : DickRichards_61
- Track 11 : BAjuniper_60
- Track 12 : Bachaco_59
- Track 13 : ChiliPepper_59
- Track 14 : Shayna_70, SunnyD_70, Teagster_70
- Track 15 : AvGardian_63
- Track 16 : Elva_64
- Track 17 : Eden_63
- Track 18 : BabyYoda_60, WalkingDead_63
- Track 19 : Gack_62
- Track 20 : Milomuff_64
- Track 21 : Franklin22_65
- Track 22 : Quenya_63
- Track 23 : Kamdara_59
- Track 24 : Buldak_63
- Track 25 : Stromboli_60

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

The start number called the most often in the published annotations is 16, it was called in 56 of the 64 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail_62, Albedo_64, Albright_62, Armstrong_62, AvGardian_63, Avocadoman_62, AylexOG_64, BAjuniper_60, BabyYoda_60, Bachaco_59, BelmontSKP_62, Bernstein_62, Brahms_62, BubbaBear_62, Cashington_62, Celaena_59, ChiliPepper_59, Clayda5_64, Coltrane_62, CroZenni_63, DickRichards_61, Didgeridoo_68, DirtyBubble_60, Doobus_61, Eden_63, Elva_64, Eula_62, Finalfrontier_63, FlameThrower_58, Franklin22_65, Gack_62, Icarian_63, IndyLu_65, Jabb_62, Johnathan_62, Jovita_61, Kamdara_59, Katzastrophic_60, Kenzers_62, Kieran_59, Lilo27_64, Lynlen_63, MsUbiquitous_62, Pecas_63, PhigPhack_65, Phisb_64, QMacho_64, Quenya_63, Rollins_62, Rona_59, SanaSana_62, SarBear_63, Sharkboy_61, SirBeanington_63, Skylord_62, Slay_64, Softsoap_64, Solea_65, Stoor_60, Stromboli_60, Swervy_63, TukTuk_64, Vitas_62, WalkingDead_63,

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

- Milomuff_64,

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

- Buldak_63, CliffHanger_71, Olliecat_61, Shayna_70, Squirrel_61, SunnyD_70, Teagster_70,

Summary by start number:

Start 12:

- Found in 3 of 72 (4.2%) of genes in pham
- Manual Annotations of this start: 3 of 64
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shayna_70 (EB), SunnyD_70 (EB), Teagster_70 (EB),

Start 14:

- Found in 4 of 72 (5.6%) of genes in pham
- Manual Annotations of this start: 4 of 64
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Buldak_63 (EB), CliffHanger_71 (EB), Olliecat_61 (EB), Squirrel_61 (EB),

Start 15:

- Found in 42 of 72 (58.3%) of genes in pham
- Manual Annotations of this start: 1 of 64
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Milomuff_64 (EB),

Start 16:

- Found in 65 of 72 (90.3%) of genes in pham
- Manual Annotations of this start: 56 of 64
- Called 98.5% of time when present
- Phage (with cluster) where this start called: Abigail_62 (EB), Albedo_64 (EB), Albright_62 (EB), Armstrong_62 (EB), AvGardian_63 (EB), Avocadoman_62 (EB), AylexOG_64 (EB), BAjuniper_60 (EB), BabyYoda_60 (EB), Bachaco_59 (EB),

BelmontSKP_62 (EB), Bernstein_62 (EB), Brahms_62 (EB), BubbaBear_62 (EB), Cashington_62 (EB), Celaena_59 (EB), ChiliPepper_59 (EB), Clayda5_64 (EB), Coltrane_62 (EB), CroZenni_63 (EB), DickRichards_61 (EB), Didgeridoo_68 (EB), DirtyBubble_60 (EB), Doobus_61 (EB), Eden_63 (EB), Elva_64 (EB), Eula_62 (EB), Finalfrontier_63 (EB), FlameThrower_58 (EB), Franklin22_65 (EB), Gack_62 (EB), Icarian_63 (EB), IndyLu_65 (EB), Jabb_62 (EB), Johnathan_62 (EB), Jovita_61 (EB), Kamdara_59 (EB), Katzastrophic_60 (EB), Kenzers_62 (EB), Kieran_59 (EB), Lilo27_64 (EB), Lynlen_63 (EB), MsUbiquitous_62 (EB), Pecas_63 (EB), PhigPhack_65 (EB), Phisb_64 (EB), QMacho_64 (EB), Quenya_63 (EB), Rollins_62 (EB), Rona_59 (EB), SanaSana_62 (EB), SarBear_63 (EB), Sharkboy_61 (EB), SirBeanington_63 (EB), Skylord_62 (EB), Slay_64 (EB), Softsoap_64 (EB), Solea_65 (EB), Stoor_60 (EB), Stromboli_60 (EB), Swervy_63 (EB), TukTuk_64 (EB), Vitas_62 (EB), WalkingDead_63 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 12 was manually annotated 3 times for cluster EB.
- Start number 14 was manually annotated 4 times for cluster EB.
- Start number 15 was manually annotated 1 time for cluster EB.
- Start number 16 was manually annotated 56 times for cluster EB.

Gene Information:

Gene: Abigail_62 Start: 38976, Stop: 39116, Start Num: 16

Candidate Starts for Abigail_62:

(10, 38910), (Start: 15 @38949 has 1 MA's), (Start: 16 @38976 has 56 MA's), (21, 39054),

Gene: Albedo_64 Start: 39896, Stop: 40036, Start Num: 16

Candidate Starts for Albedo_64:

(10, 39830), (Start: 15 @39869 has 1 MA's), (Start: 16 @39896 has 56 MA's), (21, 39974),

Gene: Albright_62 Start: 38958, Stop: 39098, Start Num: 16

Candidate Starts for Albright_62:

(10, 38892), (Start: 15 @38931 has 1 MA's), (Start: 16 @38958 has 56 MA's), (21, 39036),

Gene: Armstrong_62 Start: 37649, Stop: 37786, Start Num: 16

Candidate Starts for Armstrong_62:

(Start: 16 @37649 has 56 MA's),

Gene: AvGardian_63 Start: 39698, Stop: 39838, Start Num: 16

Candidate Starts for AvGardian_63:

(Start: 16 @39698 has 56 MA's), (22, 39785),

Gene: Avocadoman_62 Start: 38904, Stop: 39041, Start Num: 16

Candidate Starts for Avocadoman_62:

(10, 38838), (Start: 15 @38877 has 1 MA's), (Start: 16 @38904 has 56 MA's),

Gene: AylexOG_64 Start: 39542, Stop: 39679, Start Num: 16

Candidate Starts for AylexOG_64:
(10, 39476), (Start: 15 @39515 has 1 MA's), (Start: 16 @39542 has 56 MA's),

Gene: BAjuniper_60 Start: 39708, Stop: 39854, Start Num: 16
Candidate Starts for BAjuniper_60:
(8, 39525), (13, 39663), (Start: 16 @39708 has 56 MA's),

Gene: BabyYoda_60 Start: 39344, Stop: 39484, Start Num: 16
Candidate Starts for BabyYoda_60:
(Start: 15 @39317 has 1 MA's), (Start: 16 @39344 has 56 MA's),

Gene: Bachaco_59 Start: 40387, Stop: 40521, Start Num: 16
Candidate Starts for Bachaco_59:
(11, 40327), (Start: 16 @40387 has 56 MA's), (20, 40444),

Gene: BelmontSKP_62 Start: 39631, Stop: 39771, Start Num: 16
Candidate Starts for BelmontSKP_62:
(10, 39565), (Start: 15 @39604 has 1 MA's), (Start: 16 @39631 has 56 MA's),

Gene: Bernstein_62 Start: 37647, Stop: 37784, Start Num: 16
Candidate Starts for Bernstein_62:
(Start: 16 @37647 has 56 MA's),

Gene: Brahms_62 Start: 37549, Stop: 37686, Start Num: 16
Candidate Starts for Brahms_62:
(Start: 16 @37549 has 56 MA's),

Gene: BubbaBear_62 Start: 39688, Stop: 39825, Start Num: 16
Candidate Starts for BubbaBear_62:
(10, 39622), (Start: 15 @39661 has 1 MA's), (Start: 16 @39688 has 56 MA's), (21, 39766),

Gene: Buldak_63 Start: 37507, Stop: 37647, Start Num: 14
Candidate Starts for Buldak_63:
(Start: 14 @37507 has 4 MA's), (21, 37597),

Gene: Cashington_62 Start: 39035, Stop: 39172, Start Num: 16
Candidate Starts for Cashington_62:
(10, 38969), (Start: 15 @39008 has 1 MA's), (Start: 16 @39035 has 56 MA's),

Gene: Celaena_59 Start: 40149, Stop: 40283, Start Num: 16
Candidate Starts for Celaena_59:
(1, 39096), (2, 39138), (3, 39171), (11, 40089), (Start: 16 @40149 has 56 MA's), (20, 40206),

Gene: ChiliPepper_59 Start: 39702, Stop: 39842, Start Num: 16
Candidate Starts for ChiliPepper_59:
(11, 39642), (Start: 16 @39702 has 56 MA's), (17, 39717),

Gene: Clayda5_64 Start: 37614, Stop: 37751, Start Num: 16
Candidate Starts for Clayda5_64:
(Start: 16 @37614 has 56 MA's),

Gene: CliffHanger_71 Start: 39059, Stop: 39217, Start Num: 14
Candidate Starts for CliffHanger_71:

(Start: 14 @39059 has 4 MA's), (18, 39122), (19, 39125), (21, 39167),

Gene: Coltrane_62 Start: 37549, Stop: 37686, Start Num: 16

Candidate Starts for Coltrane_62:

(Start: 16 @37549 has 56 MA's),

Gene: CroZenni_63 Start: 39258, Stop: 39395, Start Num: 16

Candidate Starts for CroZenni_63:

(10, 39192), (Start: 15 @39231 has 1 MA's), (Start: 16 @39258 has 56 MA's),

Gene: DickRichards_61 Start: 39415, Stop: 39555, Start Num: 16

Candidate Starts for DickRichards_61:

(Start: 15 @39388 has 1 MA's), (Start: 16 @39415 has 56 MA's),

Gene: Didgeridoo_68 Start: 40551, Stop: 40691, Start Num: 16

Candidate Starts for Didgeridoo_68:

(10, 40485), (Start: 15 @40524 has 1 MA's), (Start: 16 @40551 has 56 MA's), (21, 40629),

Gene: DirtyBubble_60 Start: 39383, Stop: 39523, Start Num: 16

Candidate Starts for DirtyBubble_60:

(Start: 15 @39356 has 1 MA's), (Start: 16 @39383 has 56 MA's),

Gene: Doobus_61 Start: 39090, Stop: 39227, Start Num: 16

Candidate Starts for Doobus_61:

(10, 39024), (Start: 15 @39063 has 1 MA's), (Start: 16 @39090 has 56 MA's),

Gene: Eden_63 Start: 38448, Stop: 38591, Start Num: 16

Candidate Starts for Eden_63:

(Start: 16 @38448 has 56 MA's),

Gene: Elva_64 Start: 40115, Stop: 40252, Start Num: 16

Candidate Starts for Elva_64:

(9, 40022), (10, 40049), (Start: 15 @40088 has 1 MA's), (Start: 16 @40115 has 56 MA's), (21, 40193),

Gene: Eula_62 Start: 38999, Stop: 39136, Start Num: 16

Candidate Starts for Eula_62:

(10, 38933), (Start: 15 @38972 has 1 MA's), (Start: 16 @38999 has 56 MA's),

Gene: Finalfrontier_63 Start: 40163, Stop: 40303, Start Num: 16

Candidate Starts for Finalfrontier_63:

(10, 40097), (Start: 15 @40136 has 1 MA's), (Start: 16 @40163 has 56 MA's),

Gene: FlameThrower_58 Start: 39186, Stop: 39320, Start Num: 16

Candidate Starts for FlameThrower_58:

(1, 38133), (2, 38175), (3, 38208), (11, 39126), (Start: 16 @39186 has 56 MA's), (20, 39243),

Gene: Franklin22_65 Start: 38170, Stop: 38310, Start Num: 16

Candidate Starts for Franklin22_65:

(Start: 16 @38170 has 56 MA's),

Gene: Gack_62 Start: 38076, Stop: 38216, Start Num: 16

Candidate Starts for Gack_62:

(Start: 16 @38076 has 56 MA's),

Gene: Icarian_63 Start: 40033, Stop: 40173, Start Num: 16

Candidate Starts for Icarian_63:

(Start: 15 @40006 has 1 MA's), (Start: 16 @40033 has 56 MA's),

Gene: IndyLu_65 Start: 40172, Stop: 40312, Start Num: 16

Candidate Starts for IndyLu_65:

(10, 40106), (Start: 15 @40145 has 1 MA's), (Start: 16 @40172 has 56 MA's), (21, 40250),

Gene: Jabb_62 Start: 39013, Stop: 39150, Start Num: 16

Candidate Starts for Jabb_62:

(10, 38947), (Start: 15 @38986 has 1 MA's), (Start: 16 @39013 has 56 MA's),

Gene: Johnathan_62 Start: 38959, Stop: 39099, Start Num: 16

Candidate Starts for Johnathan_62:

(10, 38893), (Start: 15 @38932 has 1 MA's), (Start: 16 @38959 has 56 MA's),

Gene: Jovita_61 Start: 38770, Stop: 38907, Start Num: 16

Candidate Starts for Jovita_61:

(10, 38704), (Start: 15 @38743 has 1 MA's), (Start: 16 @38770 has 56 MA's),

Gene: Kamdara_59 Start: 39661, Stop: 39801, Start Num: 16

Candidate Starts for Kamdara_59:

(7, 39472), (11, 39601), (Start: 16 @39661 has 56 MA's), (17, 39676),

Gene: Katzastrophic_60 Start: 39696, Stop: 39830, Start Num: 16

Candidate Starts for Katzastrophic_60:

(11, 39636), (Start: 16 @39696 has 56 MA's), (20, 39753),

Gene: Kenzers_62 Start: 38829, Stop: 38966, Start Num: 16

Candidate Starts for Kenzers_62:

(10, 38763), (Start: 15 @38802 has 1 MA's), (Start: 16 @38829 has 56 MA's),

Gene: Kieran_59 Start: 39664, Stop: 39804, Start Num: 16

Candidate Starts for Kieran_59:

(11, 39604), (Start: 16 @39664 has 56 MA's), (17, 39679),

Gene: Lilo27_64 Start: 39440, Stop: 39577, Start Num: 16

Candidate Starts for Lilo27_64:

(10, 39374), (Start: 15 @39413 has 1 MA's), (Start: 16 @39440 has 56 MA's),

Gene: Lynlen_63 Start: 39012, Stop: 39149, Start Num: 16

Candidate Starts for Lynlen_63:

(10, 38946), (Start: 15 @38985 has 1 MA's), (Start: 16 @39012 has 56 MA's),

Gene: Milomuff_64 Start: 39521, Stop: 39685, Start Num: 15

Candidate Starts for Milomuff_64:

(10, 39482), (Start: 15 @39521 has 1 MA's), (Start: 16 @39548 has 56 MA's),

Gene: MsUbiquitous_62 Start: 39013, Stop: 39150, Start Num: 16

Candidate Starts for MsUbiquitous_62:

(10, 38947), (Start: 15 @38986 has 1 MA's), (Start: 16 @39013 has 56 MA's),

Gene: Olliecat_61 Start: 37393, Stop: 37557, Start Num: 14
Candidate Starts for Olliecat_61:
(4, 37129), (5, 37180), (6, 37189), (Start: 14 @37393 has 4 MA's), (21, 37507), (22, 37516),

Gene: Pecas_63 Start: 39282, Stop: 39419, Start Num: 16
Candidate Starts for Pecas_63:
(10, 39216), (Start: 15 @39255 has 1 MA's), (Start: 16 @39282 has 56 MA's),

Gene: PhigPhack_65 Start: 39555, Stop: 39695, Start Num: 16
Candidate Starts for PhigPhack_65:
(10, 39489), (Start: 15 @39528 has 1 MA's), (Start: 16 @39555 has 56 MA's), (21, 39633),

Gene: Phisb_64 Start: 39528, Stop: 39668, Start Num: 16
Candidate Starts for Phisb_64:
(10, 39462), (Start: 15 @39501 has 1 MA's), (Start: 16 @39528 has 56 MA's), (21, 39606),

Gene: QMacho_64 Start: 39659, Stop: 39799, Start Num: 16
Candidate Starts for QMacho_64:
(10, 39593), (Start: 15 @39632 has 1 MA's), (Start: 16 @39659 has 56 MA's),

Gene: Quenya_63 Start: 40087, Stop: 40227, Start Num: 16
Candidate Starts for Quenya_63:
(Start: 16 @40087 has 56 MA's), (20, 40144),

Gene: Rollins_62 Start: 37647, Stop: 37784, Start Num: 16
Candidate Starts for Rollins_62:
(Start: 16 @37647 has 56 MA's),

Gene: Rona_59 Start: 39614, Stop: 39751, Start Num: 16
Candidate Starts for Rona_59:
(11, 39554), (Start: 16 @39614 has 56 MA's), (17, 39629),

Gene: SanaSana_62 Start: 39794, Stop: 39934, Start Num: 16
Candidate Starts for SanaSana_62:
(Start: 15 @39767 has 1 MA's), (Start: 16 @39794 has 56 MA's),

Gene: SarBear_63 Start: 39068, Stop: 39205, Start Num: 16
Candidate Starts for SarBear_63:
(10, 39002), (Start: 15 @39041 has 1 MA's), (Start: 16 @39068 has 56 MA's),

Gene: Sharkboy_61 Start: 39988, Stop: 40125, Start Num: 16
Candidate Starts for Sharkboy_61:
(11, 39928), (Start: 16 @39988 has 56 MA's), (17, 40003),

Gene: Shayna_70 Start: 39636, Stop: 39821, Start Num: 12
Candidate Starts for Shayna_70:
(Start: 12 @39636 has 3 MA's), (19, 39726), (23, 39810),

Gene: SirBeanington_63 Start: 39763, Stop: 39903, Start Num: 16
Candidate Starts for SirBeanington_63:
(10, 39697), (Start: 15 @39736 has 1 MA's), (Start: 16 @39763 has 56 MA's), (21, 39841),

Gene: Skylord_62 Start: 37564, Stop: 37701, Start Num: 16

Candidate Starts for Skylord_62:
(Start: 16 @37564 has 56 MA's),

Gene: Slay_64 Start: 40038, Stop: 40178, Start Num: 16
Candidate Starts for Slay_64:
(10, 39972), (Start: 15 @40011 has 1 MA's), (Start: 16 @40038 has 56 MA's),

Gene: Softsoap_64 Start: 39727, Stop: 39867, Start Num: 16
Candidate Starts for Softsoap_64:
(10, 39661), (Start: 15 @39700 has 1 MA's), (Start: 16 @39727 has 56 MA's), (21, 39805),

Gene: Solea_65 Start: 39547, Stop: 39684, Start Num: 16
Candidate Starts for Solea_65:
(10, 39481), (Start: 15 @39520 has 1 MA's), (Start: 16 @39547 has 56 MA's),

Gene: Squircle_61 Start: 37392, Stop: 37556, Start Num: 14
Candidate Starts for Squircle_61:
(4, 37128), (5, 37179), (6, 37188), (Start: 14 @37392 has 4 MA's), (21, 37506), (22, 37515),

Gene: Stoor_60 Start: 39581, Stop: 39721, Start Num: 16
Candidate Starts for Stoor_60:
(Start: 15 @39554 has 1 MA's), (Start: 16 @39581 has 56 MA's),

Gene: Stromboli_60 Start: 39382, Stop: 39522, Start Num: 16
Candidate Starts for Stromboli_60:
(Start: 15 @39355 has 1 MA's), (Start: 16 @39382 has 56 MA's), (21, 39460),

Gene: SunnyD_70 Start: 39636, Stop: 39821, Start Num: 12
Candidate Starts for SunnyD_70:
(Start: 12 @39636 has 3 MA's), (19, 39726), (23, 39810),

Gene: Swervy_63 Start: 39132, Stop: 39269, Start Num: 16
Candidate Starts for Swervy_63:
(10, 39066), (Start: 15 @39105 has 1 MA's), (Start: 16 @39132 has 56 MA's),

Gene: Teagster_70 Start: 40081, Stop: 40239, Start Num: 12
Candidate Starts for Teagster_70:
(Start: 12 @40081 has 3 MA's), (19, 40144), (23, 40228),

Gene: TukTuk_64 Start: 39577, Stop: 39714, Start Num: 16
Candidate Starts for TukTuk_64:
(10, 39511), (Start: 15 @39550 has 1 MA's), (Start: 16 @39577 has 56 MA's),

Gene: Vitas_62 Start: 37620, Stop: 37757, Start Num: 16
Candidate Starts for Vitas_62:
(Start: 16 @37620 has 56 MA's),

Gene: WalkingDead_63 Start: 40560, Stop: 40700, Start Num: 16
Candidate Starts for WalkingDead_63:
(Start: 15 @40533 has 1 MA's), (Start: 16 @40560 has 56 MA's),