Pham 347539


1: Albedo_66
2: SansAfet_66 + 4
3: Sharkboy_64
4: SanaSana_64 + 3
5: Bernstein_65 + 6
6: Arroyo_65
7: CanFranMach_64
8: Lahqtemish_65
9: PondAmelia_64 + 1
10: Jabb_65 + 2
11: Dismas_63 + 1
12: BubbaBear_64
13: Cashington_64
14: Didgeridoo_70 + 2
15: DickRichards_63 + 1
16: DirtyBubble_62 + 1
17: AnnaLie_64 + 1
18: LimaBean_64
19: Doobus_63
20: Milomuff_66 + 1
21: Pecas_65
22: Finalfrontier_65 + 3
23: SarBear_65
24: Avocadoman_64
25: Gack_65
26: Elva_67
27: BabyYoda_62 + 1
28: Eden_66
29: TukTuk_66 + 1
30: Grist_67 + 1
31: Bengal_67
32: Swervy_65 + 1
33: Quenya_65
34: AylexOG_65 + 2
35: Franklin22_68
36: QMacho_66 + 1
37: Kenzers_64
38: Kieran_61 + 2
39: AvGardian_65
40: Vitas_65
41: Lynlen_65
42: Burritobowl_66
43: CroZenni_65

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 347539 Report

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

Pham number 347539 has 78 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Albedo_66
- Track 2 : SansAfet_66, PhigPhack_67, Phisb_66, Albright_64, Abigail_64
- Track 3 : Sharkboy_64
- Track 4 : SanaSana_64, Stoor_62, Loviatar_63, Akino08_63
- Track 5 : Bernstein_65, Clayda5_67, Rollins_65, Skylord_65, Armstrong_65, Coltrane_65, Brahms_65
- Track 6 : Arroyo_65
- Track 7 : CanFranMach_64
- Track 8 : Lahqtemish_65
- Track 9 : PondAmelia_64, Icarian_65
- Track 10 : Jabb_65, CupcakePrincess_65, MsUbiquitous_65
- Track 11 : Dismas_63, Rona_62
- Track 12 : BubbaBear_64
- Track 13 : Cashington_64
- Track 14 : Didgeridoo_70, IndyLu_67, BabyDaisy_67
- Track 15 : DickRichards_63, Softsoap_66
- Track 16 : DirtyBubble_62, Stromboli_62
- Track 17 : AnnaLie_64, BelmontSKP_64
- Track 18 : LimaBean_64
- Track 19 : Doobus_63
- Track 20 : Milomuff_66, Solea_67
- Track 21 : Pecas_65
- Track 22 : Finalfrontier_65, PastaFagioli_66, SirBeanington_65, Slay_66
- Track 23 : SarBear_65
- Track 24 : Avocadoman_64
- Track 25 : Gack_65
- Track 26 : Elva_67
- Track 27 : BabyYoda_62, WalkingDead_65
- Track 28 : Eden_66
- Track 29 : TukTuk_66, Lilo27_66
- Track 30 : Grist_67, Kate33_69
- Track 31 : Bengal_67
- Track 32 : Swervy_65, Jovita_63
- Track 33 : Quenya_65
- Track 34 : AylexOG_65, Nicky22_64, Eula_64
- Track 35 : Franklin22_68
- Track 36 : QMacho_66, Johnathan_64

• Track 37 : Kenzers_64
• Track 38 : Kieran_61, ChiliPepper_61, Kamdara_61
• Track 39 : AvGardian_65
• Track 40 : Vitas_65
• Track 41 : Lynlen_65
• Track 42 : Burritobowl_66
• Track 43 : CroZenni_65

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

The start number called the most often in the published annotations is 13, it was called in 67 of the 74 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abigail_64, Akino08_63, Albedo_66, Albright_64, AnnaLie_64, Armstrong_65, Arroyo_65, AvGardian_65, Avocadoman_64, AylexOG_65, BabyDaisy_67, BabyYoda_62, BelmontSKP_64, Bernstein_65, Brahms_65, BubbaBear_64, Burritobowl_66, CanFranMach_64, Cashington_64, Clayda5_67, Coltrane_65, CroZenni_65, CupcakePrincess_65, DickRichards_63, Didgeridoo_70, DirtyBubble_62, Doobus_63, Eden_66, Elva_67, Eula_64, Finalfrontier_65, Franklin22_68, Gack_65, Grist_67, Icarian_65, IndyLu_67, Jabb_65, Johnathan_64, Jovita_63, Kate33_69, Kenzers_64, Lahqtemish_65, Lilo27_66, LimaBean_64, Loviatar_63, Lynlen_65, Milomuff_66, MsUbiquitous_65, Nicky22_64, PastaFagioli_66, Pecas_65, PhigPhack_67, Phisb_66, PondAmelia_64, QMacho_66, Quenya_65, Rollins_65, SanaSana_64, SansAfet_66, SarBear_65, SirBeanington_65, Skylord_65, Slay_66, Softsoap_66, Solea_67, Stoor_62, Stromboli_62, Swervy_65, TukTuk_66, Vitas_65, WalkingDead_65,

Genes that have the "Most Annotated" start but do not call it:
• Bengal_67,

Genes that do not have the "Most Annotated" start:
• ChiliPepper_61, Dismas_63, Kamdara_61, Kieran_61, Rona_62, Sharkboy_64,

Summary by start number:

Start 11:
• Found in 6 of 78 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 74
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Bengal_67 (EB),

Start 13:
• Found in 72 of 78 (92.3%) of genes in pham
• Manual Annotations of this start: 67 of 74
• Called 98.6% of time when present
• Phage (with cluster) where this start called: Abigail_64 (EB), Akino08_63 (EB), Albedo_66 (EB), Albright_64 (EB), AnnaLie_64 (EB), Armstrong_65 (EB), Arroyo_65 (EB), AvGardian_65 (EB), Avocadoman_64 (EB), AylexOG_65 (EB), BabyDaisy_67 (EB), BabyYoda_62 (EB), BelmontSKP_64 (EB), Bernstein_65 (EB), Brahms_65

(EB), BubbaBear_64 (EB), Burritobowl_66 (EB), CanFranMach_64 (EB), Cashington_64 (EB), Clayda5_67 (EB), Coltrane_65 (EB), CroZenni_65 (EB), CupcakePrincess_65 (EB), DickRichards_63 (EB), Didgeridoo_70 (EB), DirtyBubble_62 (EB), Doobus_63 (EB), Eden_66 (EB), Elva_67 (EB), Eula_64 (EB), Finalfrontier_65 (EB), Franklin22_68 (EB), Gack_65 (EB), Grist_67 (EB), Icarian_65 (EB), IndyLu_67 (EB), Jabb_65 (EB), Johnathan_64 (EB), Jovita_63 (EB), Kate33_69 (EB), Kenzers_64 (EB), Lahqtemish_65 (EB), Lilo27_66 (EB), LimaBean_64 (EB), Loviatar_63 (EB), Lynlen_65 (EB), Milomuff_66 (EB), MsUbiquitous_65 (EB), Nicky22_64 (EB), PastaFagioli_66 (EB), Pecas_65 (EB), PhigPhack_67 (EB), Phisb_66 (EB), PondAmelia_64 (EB), QMacho_66 (EB), Quenya_65 (EB), Rollins_65 (EB), SanaSana_64 (EB), SansAfet_66 (EB), SarBear_65 (EB), SirBeanington_65 (EB), Skylord_65 (EB), Slay_66 (EB), Softsoap_66 (EB), Solea_67 (EB), Stoor_62 (EB), Stromboli_62 (EB), Swervy_65 (EB), TukTuk_66 (EB), Vitas_65 (EB), WalkingDead_65 (EB),

Start 14:
• Found in 6 of 78 (7.7%) of genes in pham
• Manual Annotations of this start: 6 of 74
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChiliPepper_61 (EB), Dismas_63 (EB), Kamdara_61 (EB), Kieran_61 (EB), Rona_62 (EB), Sharkboy_64 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:
•Start number 11 was manually annotated 1 time for cluster EB.
•Start number 13 was manually annotated 67 times for cluster EB.
•Start number 14 was manually annotated 6 times for cluster EB.

Gene Information:

Gene: Abigail_64 Start: 39315, Stop: 39497, Start Num: 13
Candidate Starts for Abigail_64:
(Start: 13 @39315 has 67 MA's), (17, 39360), (23, 39450),

Gene: Akino08_63 Start: 40775, Stop: 40960, Start Num: 13
Candidate Starts for Akino08_63:
(Start: 13 @40775 has 67 MA's), (18, 40826), (20, 40886),

Gene: Albedo_66 Start: 40235, Stop: 40417, Start Num: 13
Candidate Starts for Albedo_66:
(Start: 13 @40235 has 67 MA's), (17, 40280), (23, 40370),

Gene: Albright_64 Start: 39297, Stop: 39479, Start Num: 13
Candidate Starts for Albright_64:
(Start: 13 @39297 has 67 MA's), (17, 39342), (23, 39432),

Gene: AnnaLie_64 Start: 39976, Stop: 40158, Start Num: 13
Candidate Starts for AnnaLie_64:

(Start: 13 @39976 has 67 MA's), (23, 40111),

Gene: Armstrong_65 Start: 38306, Stop: 38512, Start Num: 13
Candidate Starts for Armstrong_65:
(Start: 13 @38306 has 67 MA's), (20, 38414), (22, 38435), (24, 38456), (26, 38498),

Gene: Arroyo_65 Start: 40440, Stop: 40622, Start Num: 13
Candidate Starts for Arroyo_65:
(Start: 13 @40440 has 67 MA's), (16, 40470), (17, 40485), (23, 40575),

Gene: AvGardian_65 Start: 40037, Stop: 40219, Start Num: 13
Candidate Starts for AvGardian_65:
(Start: 13 @40037 has 67 MA's), (20, 40145), (21, 40148),

Gene: Avocadoman_64 Start: 39447, Stop: 39629, Start Num: 13
Candidate Starts for Avocadoman_64:
(12, 39441), (Start: 13 @39447 has 67 MA's), (16, 39477), (23, 39582),

Gene: AylexOG_65 Start: 40061, Stop: 40243, Start Num: 13
Candidate Starts for AylexOG_65:
(Start: 13 @40061 has 67 MA's), (17, 40106), (23, 40196),

Gene: BabyDaisy_67 Start: 40786, Stop: 40968, Start Num: 13
Candidate Starts for BabyDaisy_67:
(Start: 13 @40786 has 67 MA's), (16, 40816), (17, 40831),

Gene: BabyYoda_62 Start: 39683, Stop: 39868, Start Num: 13
Candidate Starts for BabyYoda_62:
(Start: 13 @39683 has 67 MA's), (15, 39701), (20, 39791), (23, 39818),

Gene: BelmontSKP_64 Start: 39976, Stop: 40158, Start Num: 13
Candidate Starts for BelmontSKP_64:
(Start: 13 @39976 has 67 MA's), (23, 40111),

Gene: Bengal_67 Start: 40195, Stop: 40389, Start Num: 11
Candidate Starts for Bengal_67:
(Start: 11 @40195 has 1 MA's), (Start: 13 @40207 has 67 MA's), (23, 40342),

Gene: Bernstein_65 Start: 38304, Stop: 38510, Start Num: 13
Candidate Starts for Bernstein_65:
(Start: 13 @38304 has 67 MA's), (20, 38412), (22, 38433), (24, 38454), (26, 38496),

Gene: Brahms_65 Start: 38206, Stop: 38412, Start Num: 13
Candidate Starts for Brahms_65:
(Start: 13 @38206 has 67 MA's), (20, 38314), (22, 38335), (24, 38356), (26, 38398),

Gene: BubbaBear_64 Start: 40228, Stop: 40410, Start Num: 13
Candidate Starts for BubbaBear_64:
(6, 40021), (Start: 13 @40228 has 67 MA's), (17, 40273), (23, 40363),

Gene: Burritobowl_66 Start: 39798, Stop: 39980, Start Num: 13
Candidate Starts for Burritobowl_66:
(Start: 13 @39798 has 67 MA's), (16, 39828), (17, 39843), (23, 39933),

Gene: CanFranMach_64 Start: 39840, Stop: 40022, Start Num: 13
Candidate Starts for CanFranMach_64:
(Start: 13 @39840 has 67 MA's), (20, 39948), (23, 39975),

Gene: Cashington_64 Start: 39539, Stop: 39721, Start Num: 13
Candidate Starts for Cashington_64:
(Start: 13 @39539 has 67 MA's), (17, 39584), (23, 39674),

Gene: ChiliPepper_61 Start: 40043, Stop: 40222, Start Num: 14
Candidate Starts for ChiliPepper_61:
(1, 39632), (Start: 14 @40043 has 6 MA's), (15, 40058), (19, 40136), (20, 40148),

Gene: Clayda5_67 Start: 38272, Stop: 38478, Start Num: 13
Candidate Starts for Clayda5_67:
(Start: 13 @38272 has 67 MA's), (20, 38380), (22, 38401), (24, 38422), (26, 38464),

Gene: Coltrane_65 Start: 38206, Stop: 38412, Start Num: 13
Candidate Starts for Coltrane_65:
(Start: 13 @38206 has 67 MA's), (20, 38314), (22, 38335), (24, 38356), (26, 38398),

Gene: CroZenni_65 Start: 39783, Stop: 39965, Start Num: 13
Candidate Starts for CroZenni_65:
(5, 39564), (7, 39594), (Start: 13 @39783 has 67 MA's), (17, 39828), (23, 39918),

Gene: CupcakePrincess_65 Start: 39785, Stop: 39967, Start Num: 13
Candidate Starts for CupcakePrincess_65:
(8, 39659), (9, 39698), (10, 39752), (Start: 13 @39785 has 67 MA's), (17, 39830), (23, 39920),

Gene: DickRichards_63 Start: 39754, Stop: 39936, Start Num: 13
Candidate Starts for DickRichards_63:
(Start: 13 @39754 has 67 MA's), (16, 39784), (17, 39799), (23, 39889),

Gene: Didgeridoo_70 Start: 40896, Stop: 41078, Start Num: 13
Candidate Starts for Didgeridoo_70:
(Start: 13 @40896 has 67 MA's), (16, 40926), (17, 40941),

Gene: DirtyBubble_62 Start: 39722, Stop: 39907, Start Num: 13
Candidate Starts for DirtyBubble_62:
(Start: 13 @39722 has 67 MA's), (15, 39740), (20, 39830), (23, 39857),

Gene: Dismas_63 Start: 40180, Stop: 40359, Start Num: 14
Candidate Starts for Dismas_63:
(Start: 14 @40180 has 6 MA's), (15, 40195), (19, 40273), (20, 40285),

Gene: Doobus_63 Start: 39609, Stop: 39791, Start Num: 13
Candidate Starts for Doobus_63:
(Start: 13 @39609 has 67 MA's), (16, 39639), (23, 39744),

Gene: Eden_66 Start: 39118, Stop: 39339, Start Num: 13
Candidate Starts for Eden_66:
(Start: 13 @39118 has 67 MA's), (24, 39271),

Gene: Elva_67 Start: 40561, Stop: 40749, Start Num: 13
Candidate Starts for Elva_67:
(Start: 13 @40561 has 67 MA's), (20, 40672), (23, 40699),

Gene: Eula_64 Start: 39518, Stop: 39700, Start Num: 13
Candidate Starts for Eula_64:
(Start: 13 @39518 has 67 MA's), (17, 39563), (23, 39653),

Gene: Finalfrontier_65 Start: 40502, Stop: 40684, Start Num: 13
Candidate Starts for Finalfrontier_65:
(Start: 13 @40502 has 67 MA's), (17, 40547), (23, 40637),

Gene: Franklin22_68 Start: 38842, Stop: 39054, Start Num: 13
Candidate Starts for Franklin22_68:
(Start: 13 @38842 has 67 MA's), (20, 38950), (24, 38995),

Gene: Gack_65 Start: 38747, Stop: 38944, Start Num: 13
Candidate Starts for Gack_65:
(2, 38459), (Start: 13 @38747 has 67 MA's), (24, 38897),

Gene: Grist_67 Start: 40229, Stop: 40411, Start Num: 13
Candidate Starts for Grist_67:
(Start: 13 @40229 has 67 MA's), (16, 40259), (17, 40274),

Gene: Icarian_65 Start: 40372, Stop: 40557, Start Num: 13
Candidate Starts for Icarian_65:
(Start: 13 @40372 has 67 MA's), (18, 40423), (20, 40483),

Gene: IndyLu_67 Start: 40517, Stop: 40699, Start Num: 13
Candidate Starts for IndyLu_67:
(Start: 13 @40517 has 67 MA's), (16, 40547), (17, 40562),

Gene: Jabb_65 Start: 39785, Stop: 39967, Start Num: 13
Candidate Starts for Jabb_65:
(8, 39659), (9, 39698), (10, 39752), (Start: 13 @39785 has 67 MA's), (17, 39830), (23, 39920),

Gene: Johnathan_64 Start: 39298, Stop: 39480, Start Num: 13
Candidate Starts for Johnathan_64:
(Start: 13 @39298 has 67 MA's), (23, 39433),

Gene: Jovita_63 Start: 39286, Stop: 39468, Start Num: 13
Candidate Starts for Jovita_63:
(Start: 13 @39286 has 67 MA's), (17, 39331), (23, 39421),

Gene: Kamdara_61 Start: 40002, Stop: 40181, Start Num: 14
Candidate Starts for Kamdara_61:
(1, 39591), (Start: 14 @40002 has 6 MA's), (15, 40017), (19, 40095), (20, 40107),

Gene: Kate33_69 Start: 40247, Stop: 40429, Start Num: 13
Candidate Starts for Kate33_69:
(Start: 13 @40247 has 67 MA's), (16, 40277), (17, 40292),

Gene: Kenzers_64 Start: 39369, Stop: 39551, Start Num: 13

Candidate Starts for Kenzers_64:
(3, 39138), (Start: 11 @39357 has 1 MA's), (Start: 13 @39369 has 67 MA's), (17, 39414), (23, 39504),

Gene: Kieran_61 Start: 40005, Stop: 40184, Start Num: 14
Candidate Starts for Kieran_61:
(1, 39594), (Start: 14 @40005 has 6 MA's), (15, 40020), (19, 40098), (20, 40110),

Gene: Lahqtemish_65 Start: 40719, Stop: 40901, Start Num: 13
Candidate Starts for Lahqtemish_65:
(Start: 13 @40719 has 67 MA's), (16, 40749), (17, 40764), (23, 40854),

Gene: Lilo27_66 Start: 40019, Stop: 40201, Start Num: 13
Candidate Starts for Lilo27_66:
(Start: 11 @40007 has 1 MA's), (Start: 13 @40019 has 67 MA's), (17, 40064), (23, 40154),

Gene: LimaBean_64 Start: 39192, Stop: 39374, Start Num: 13
Candidate Starts for LimaBean_64:
(Start: 13 @39192 has 67 MA's), (16, 39222), (23, 39327),

Gene: Loviatar_63 Start: 40790, Stop: 40975, Start Num: 13
Candidate Starts for Loviatar_63:
(Start: 13 @40790 has 67 MA's), (18, 40841), (20, 40901),

Gene: Lynlen_65 Start: 39522, Stop: 39704, Start Num: 13
Candidate Starts for Lynlen_65:
(Start: 11 @39510 has 1 MA's), (Start: 13 @39522 has 67 MA's), (17, 39567), (23, 39657),

Gene: Milomuff_66 Start: 40067, Stop: 40249, Start Num: 13
Candidate Starts for Milomuff_66:
(Start: 13 @40067 has 67 MA's), (23, 40202),

Gene: MsUbiquitous_65 Start: 39785, Stop: 39967, Start Num: 13
Candidate Starts for MsUbiquitous_65:
(8, 39659), (9, 39698), (10, 39752), (Start: 13 @39785 has 67 MA's), (17, 39830), (23, 39920),

Gene: Nicky22_64 Start: 39961, Stop: 40143, Start Num: 13
Candidate Starts for Nicky22_64:
(Start: 13 @39961 has 67 MA's), (17, 40006), (23, 40096),

Gene: PastaFagioli_66 Start: 40470, Stop: 40652, Start Num: 13
Candidate Starts for PastaFagioli_66:
(Start: 13 @40470 has 67 MA's), (17, 40515), (23, 40605),

Gene: Pecas_65 Start: 39819, Stop: 40001, Start Num: 13
Candidate Starts for Pecas_65:
(3, 39612), (4, 39615), (Start: 11 @39807 has 1 MA's), (Start: 13 @39819 has 67 MA's), (17, 39864), (23, 39954),

Gene: PhigPhack_67 Start: 39894, Stop: 40076, Start Num: 13
Candidate Starts for PhigPhack_67:
(Start: 13 @39894 has 67 MA's), (17, 39939), (23, 40029),

Gene: Phisb_66 Start: 39867, Stop: 40049, Start Num: 13

Candidate Starts for Phisb_66:
(Start: 13 @39867 has 67 MA's), (17, 39912), (23, 40002),

Gene: PondAmelia_64 Start: 39749, Stop: 39934, Start Num: 13
Candidate Starts for PondAmelia_64:
(Start: 13 @39749 has 67 MA's), (18, 39800), (20, 39860),

Gene: QMacho_66 Start: 39998, Stop: 40180, Start Num: 13
Candidate Starts for QMacho_66:
(Start: 13 @39998 has 67 MA's), (23, 40133),

Gene: Quenya_65 Start: 40431, Stop: 40655, Start Num: 13
Candidate Starts for Quenya_65:
(Start: 13 @40431 has 67 MA's), (20, 40539), (25, 40614),

Gene: Rollins_65 Start: 38304, Stop: 38510, Start Num: 13
Candidate Starts for Rollins_65:
(Start: 13 @38304 has 67 MA's), (20, 38412), (22, 38433), (24, 38454), (26, 38496),

Gene: Rona_62 Start: 40171, Stop: 40350, Start Num: 14
Candidate Starts for Rona_62:
(Start: 14 @40171 has 6 MA's), (15, 40186), (19, 40264), (20, 40276),

Gene: SanaSana_64 Start: 40133, Stop: 40318, Start Num: 13
Candidate Starts for SanaSana_64:
(Start: 13 @40133 has 67 MA's), (18, 40184), (20, 40244),

Gene: SansAfet_66 Start: 39843, Stop: 40025, Start Num: 13
Candidate Starts for SansAfet_66:
(Start: 13 @39843 has 67 MA's), (17, 39888), (23, 39978),

Gene: SarBear_65 Start: 39611, Stop: 39793, Start Num: 13
Candidate Starts for SarBear_65:
(3, 39398), (Start: 13 @39611 has 67 MA's), (17, 39656), (23, 39746),

Gene: Sharkboy_64 Start: 40536, Stop: 40715, Start Num: 14
Candidate Starts for Sharkboy_64:
(Start: 14 @40536 has 6 MA's), (15, 40551), (19, 40629), (20, 40641),

Gene: SirBeanington_65 Start: 40102, Stop: 40284, Start Num: 13
Candidate Starts for SirBeanington_65:
(Start: 13 @40102 has 67 MA's), (17, 40147), (23, 40237),

Gene: Skylord_65 Start: 38221, Stop: 38427, Start Num: 13
Candidate Starts for Skylord_65:
(Start: 13 @38221 has 67 MA's), (20, 38329), (22, 38350), (24, 38371), (26, 38413),

Gene: Slay_66 Start: 40377, Stop: 40559, Start Num: 13
Candidate Starts for Slay_66:
(Start: 13 @40377 has 67 MA's), (17, 40422), (23, 40512),

Gene: Softsoap_66 Start: 40066, Stop: 40248, Start Num: 13
Candidate Starts for Softsoap_66:

(Start: 13 @40066 has 67 MA's), (16, 40096), (17, 40111), (23, 40201),

Gene: Solea_67 Start: 40066, Stop: 40248, Start Num: 13
Candidate Starts for Solea_67:
(Start: 13 @40066 has 67 MA's), (23, 40201),

Gene: Stoor_62 Start: 39920, Stop: 40105, Start Num: 13
Candidate Starts for Stoor_62:
(Start: 13 @39920 has 67 MA's), (18, 39971), (20, 40031),

Gene: Stromboli_62 Start: 39721, Stop: 39906, Start Num: 13
Candidate Starts for Stromboli_62:
(Start: 13 @39721 has 67 MA's), (15, 39739), (20, 39829), (23, 39856),

Gene: Swervy_65 Start: 39648, Stop: 39830, Start Num: 13
Candidate Starts for Swervy_65:
(Start: 13 @39648 has 67 MA's), (17, 39693), (23, 39783),

Gene: TukTuk_66 Start: 40156, Stop: 40338, Start Num: 13
Candidate Starts for TukTuk_66:
(Start: 11 @40144 has 1 MA's), (Start: 13 @40156 has 67 MA's), (17, 40201), (23, 40291),

Gene: Vitas_65 Start: 38277, Stop: 38483, Start Num: 13
Candidate Starts for Vitas_65:
(Start: 13 @38277 has 67 MA's), (20, 38385), (22, 38406), (24, 38427), (26, 38469),

Gene: WalkingDead_65 Start: 40899, Stop: 41084, Start Num: 13
Candidate Starts for WalkingDead_65:
(Start: 13 @40899 has 67 MA's), (15, 40917), (20, 41007), (23, 41034),