

Pham 311471



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 311471 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311471 has 88 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Sharkboy_65, Kamdara_62, Kieran_62, ChiliPepper_62
- Track 2 : Bernstein_64, Skylord_64, Brahms_64, Vitas_64, Coltrane_64, Rollins_64
- Track 3 : Jabb_66, MsUbiquitous_66, CupcakePrincess_66
- Track 4 : Doobus_64, Cashington_65, BelmontSKP_65, Albright_65, CroZenni_66, BubbaBear_65, Softsoap_67, QMacho_67, PhigPhack_68, DickRichards_64, LimaBean_65, Johnathan_65, AnnaLie_65, Burritobowl_67, Bengal_68, Arroyo_66, Phisb_67, Abigail_65
- Track 5 : Loviatar_64
- Track 6 : Finalfrontier_66, Slay_67
- Track 7 : Quenya_66
- Track 8 : Franklin22_66
- Track 9 : Stromboli_63
- Track 10 : SunnyD_74
- Track 11 : Eula_65
- Track 12 : DirtyBubble_63
- Track 13 : FlameThrower_61, Katzastrophic_63, Bachaco_62, Celaena_62
- Track 14 : Squircle_64, Olliecat_64
- Track 15 : Kate33_70, BabyDaisy_68, IndyLu_68
- Track 16 : SanaSana_65, Stoor_63
- Track 17 : TukTuk_67, Lilo27_67
- Track 18 : Lahqtemish_66
- Track 19 : Solea_68, Milomuff_67, Avocadoman_65
- Track 20 : Pecas_66, SarBear_66
- Track 21 : Albedo_67, SirBeanington_66
- Track 22 : Eden_64
- Track 23 : Gack_63
- Track 24 : Armstrong_64
- Track 25 : CliffHanger_75
- Track 26 : Jovita_64
- Track 27 : Kenzers_65
- Track 28 : Nicky22_65
- Track 29 : Teagster_74
- Track 30 : CanFranMach_66
- Track 31 : Clayda5_66
- Track 32 : Dismas_64, Rona_63
- Track 33 : BAjuniper_63
- Track 34 : Shayna_74

- Track 35 : Elva_68
- Track 36 : PastaFagioli_67
- Track 37 : BabyYoda_63
- Track 38 : Swervy_66
- Track 39 : Didgeridoo_71
- Track 40 : Icarian_66
- Track 41 : AylexOG_67
- Track 42 : SansAfet_67
- Track 43 : PondAmelia_78
- Track 44 : AvGardian_66
- Track 45 : WalkingDead_66
- Track 46 : Buldak_67
- Track 47 : Lynlen_66

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

The start number called the most often in the published annotations is 14, it was called in 47 of the 80 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail_65, Albedo_67, Albright_65, AnnaLie_65, Arroyo_66, AvGardian_66, Avocadoman_65, AylexOG_67, BabyDaisy_68, BabyYoda_63, BelmontSKP_65, Bengal_68, BubbaBear_65, Burritobowl_67, CanFranMach_66, Cashington_65, CroZenni_66, CupcakePrincess_66, DickRichards_64, Didgeridoo_71, DirtyBubble_63, Doobus_64, Eula_65, Finalfrontier_66, IndyLu_68, Jabb_66, Johnathan_65, Jovita_64, Kate33_70, Kenzers_65, Lahqtemish_66, Lilo27_67, LimaBean_65, Loviatar_64, Lynlen_66, Milomuff_67, MsUbiquitous_66, Nicky22_65, PastaFagioli_67, Pecas_66, PhigPhack_68, Phisb_67, PondAmelia_78, QMacho_67, SansAfet_67, SarBear_66, SirBeanington_66, Slay_67, Softsoap_67, Solea_68, Stromboli_63, Swervy_66, TukTuk_67, WalkingDead_66,

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

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

- Armstrong_64, BAjuniper_63, Bachaco_62, Bernstein_64, Brahms_64, Buldak_67, Celaena_62, ChiliPepper_62, Clayda5_66, CliffHanger_75, Coltrane_64, Dismas_64, Eden_64, Elva_68, FlameThrower_61, Franklin22_66, Gack_63, Icarian_66, Kamdara_62, Katzastrophic_63, Kieran_62, Olliecat_64, Quenya_66, Rollins_64, Rona_63, SanaSana_65, Sharkboy_65, Shayna_74, Skylord_64, Squircle_64, Stoor_63, SunnyD_74, Teagster_74, Vitas_64,

Summary by start number:

Start 13:

- Found in 12 of 88 (13.6%) of genes in pham
- Manual Annotations of this start: 11 of 80
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Bernstein_64 (EB), Brahms_64 (EB), Clayda5_66 (EB), CliffHanger_75 (EB), Coltrane_64 (EB), Rollins_64 (EB),

Shayna_74 (EB), Skylord_64 (EB), SunnyD_74 (EB), Teagster_74 (EB), Vitas_64 (EB),

Start 14:

- Found in 54 of 88 (61.4%) of genes in pham
- Manual Annotations of this start: 47 of 80
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail_65 (EB), Albedo_67 (EB), Albright_65 (EB), AnnaLie_65 (EB), Arroyo_66 (EB), AvGardian_66 (EB), Avocadoman_65 (EB), AylexOG_67 (EB), BabyDaisy_68 (EB), BabyYoda_63 (EB), BelmontSKP_65 (EB), Bengal_68 (EB), BubbaBear_65 (EB), Burritobowl_67 (EB), CanFranMach_66 (EB), Cashington_65 (EB), CroZenni_66 (EB), CupcakePrincess_66 (EB), DickRichards_64 (EB), Didgeridoo_71 (EB), DirtyBubble_63 (EB), Doobus_64 (EB), Eula_65 (EB), Finalfrontier_66 (EB), IndyLu_68 (EB), Jabb_66 (EB), Johnathan_65 (EB), Jovita_64 (EB), Kate33_70 (EB), Kenzers_65 (EB), Lahqtemish_66 (EB), Lilo27_67 (EB), LimaBean_65 (EB), Loviatar_64 (EB), Lynlen_66 (EB), Milomuff_67 (EB), MsUbiquitous_66 (EB), Nicky22_65 (EB), PastaFagioli_67 (EB), Pecas_66 (EB), PhigPhack_68 (EB), Phisb_67 (EB), PondAmelia_78 (EB), QMacho_67 (EB), SansAfet_67 (EB), SarBear_66 (EB), SirBeanington_66 (EB), Slay_67 (EB), Softsoap_67 (EB), Solea_68 (EB), Stromboli_63 (EB), Swervy_66 (EB), TukTuk_67 (EB), WalkingDead_66 (EB),

Start 15:

- Found in 4 of 88 (4.5%) of genes in pham
- Manual Annotations of this start: 4 of 80
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elva_68 (EB), Icarian_66 (EB), SanaSana_65 (EB), Stoor_63 (EB),

Start 16:

- Found in 10 of 88 (11.4%) of genes in pham
- Manual Annotations of this start: 10 of 80
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAjuniper_63 (EB), Bachaco_62 (EB), Buldak_67 (EB), Celaena_62 (EB), Eden_64 (EB), FlameThrower_61 (EB), Katzastrophic_63 (EB), Olliecat_64 (EB), Quenya_66 (EB), Squirrel_64 (EB),

Start 17:

- Found in 10 of 88 (11.4%) of genes in pham
- Manual Annotations of this start: 3 of 80
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Armstrong_64 (EB), Franklin22_66 (EB), Gack_63 (EB),

Start 18:

- Found in 6 of 88 (6.8%) of genes in pham
- Manual Annotations of this start: 5 of 80
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChiliPepper_62 (EB), Dismas_64 (EB), Kamdara_62 (EB), Kieran_62 (EB), Rona_63 (EB), Sharkboy_65 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 13 was manually annotated 11 times for cluster EB.
- Start number 14 was manually annotated 47 times for cluster EB.
- Start number 15 was manually annotated 4 times for cluster EB.
- Start number 16 was manually annotated 10 times for cluster EB.
- Start number 17 was manually annotated 3 times for cluster EB.
- Start number 18 was manually annotated 5 times for cluster EB.

Gene Information:

Gene: Abigail_65 Start: 39510, Stop: 39740, Start Num: 14

Candidate Starts for Abigail_65:

(Start: 14 @39510 has 47 MA's), (25, 39687), (27, 39729),

Gene: Albedo_67 Start: 40431, Stop: 40661, Start Num: 14

Candidate Starts for Albedo_67:

(12, 40398), (Start: 14 @40431 has 47 MA's), (23, 40590),

Gene: Albright_65 Start: 39492, Stop: 39722, Start Num: 14

Candidate Starts for Albright_65:

(Start: 14 @39492 has 47 MA's), (25, 39669), (27, 39711),

Gene: AnnaLie_65 Start: 40171, Stop: 40401, Start Num: 14

Candidate Starts for AnnaLie_65:

(Start: 14 @40171 has 47 MA's), (25, 40348), (27, 40390),

Gene: Armstrong_64 Start: 38085, Stop: 38303, Start Num: 17

Candidate Starts for Armstrong_64:

(Start: 13 @38058 has 11 MA's), (Start: 17 @38085 has 3 MA's),

Gene: Arroyo_66 Start: 40635, Stop: 40865, Start Num: 14

Candidate Starts for Arroyo_66:

(Start: 14 @40635 has 47 MA's), (25, 40812), (27, 40854),

Gene: AvGardian_66 Start: 40233, Stop: 40472, Start Num: 14

Candidate Starts for AvGardian_66:

(8, 40104), (Start: 14 @40233 has 47 MA's), (22, 40389),

Gene: Avocadoman_65 Start: 39642, Stop: 39872, Start Num: 14

Candidate Starts for Avocadoman_65:

(Start: 14 @39642 has 47 MA's), (25, 39819),

Gene: AylexOG_67 Start: 40257, Stop: 40487, Start Num: 14

Candidate Starts for AylexOG_67:

(12, 40224), (Start: 14 @40257 has 47 MA's),

Gene: BAjuniper_63 Start: 40333, Stop: 40551, Start Num: 16

Candidate Starts for BAjuniper_63:

(Start: 16 @40333 has 10 MA's), (27, 40540),

Gene: BabyDaisy_68 Start: 40982, Stop: 41209, Start Num: 14
Candidate Starts for BabyDaisy_68:
(11, 40913), (12, 40949), (Start: 14 @40982 has 47 MA's), (27, 41198),

Gene: BabyYoda_63 Start: 39882, Stop: 40112, Start Num: 14
Candidate Starts for BabyYoda_63:
(6, 39738), (Start: 14 @39882 has 47 MA's), (26, 40089),

Gene: Bachaco_62 Start: 41012, Stop: 41230, Start Num: 16
Candidate Starts for Bachaco_62:
(Start: 16 @41012 has 10 MA's), (19, 41093), (27, 41219),

Gene: BelmontSKP_65 Start: 40171, Stop: 40401, Start Num: 14
Candidate Starts for BelmontSKP_65:
(Start: 14 @40171 has 47 MA's), (25, 40348), (27, 40390),

Gene: Bengal_68 Start: 40402, Stop: 40632, Start Num: 14
Candidate Starts for Bengal_68:
(Start: 14 @40402 has 47 MA's), (25, 40579), (27, 40621),

Gene: Bernstein_64 Start: 38056, Stop: 38301, Start Num: 13
Candidate Starts for Bernstein_64:
(Start: 13 @38056 has 11 MA's), (Start: 17 @38083 has 3 MA's),

Gene: Brahms_64 Start: 37958, Stop: 38203, Start Num: 13
Candidate Starts for Brahms_64:
(Start: 13 @37958 has 11 MA's), (Start: 17 @37985 has 3 MA's),

Gene: BubbaBear_65 Start: 40423, Stop: 40653, Start Num: 14
Candidate Starts for BubbaBear_65:
(Start: 14 @40423 has 47 MA's), (25, 40600), (27, 40642),

Gene: Buldak_67 Start: 38647, Stop: 38865, Start Num: 16
Candidate Starts for Buldak_67:
(Start: 16 @38647 has 10 MA's),

Gene: Burritobowl_67 Start: 39993, Stop: 40223, Start Num: 14
Candidate Starts for Burritobowl_67:
(Start: 14 @39993 has 47 MA's), (25, 40170), (27, 40212),

Gene: CanFranMach_66 Start: 40036, Stop: 40266, Start Num: 14
Candidate Starts for CanFranMach_66:
(8, 39907), (11, 39967), (Start: 14 @40036 has 47 MA's),

Gene: Cashington_65 Start: 39734, Stop: 39964, Start Num: 14
Candidate Starts for Cashington_65:
(Start: 14 @39734 has 47 MA's), (25, 39911), (27, 39953),

Gene: Celaena_62 Start: 40775, Stop: 40993, Start Num: 16
Candidate Starts for Celaena_62:
(Start: 16 @40775 has 10 MA's), (19, 40856), (27, 40982),

Gene: ChiliPepper_62 Start: 40251, Stop: 40457, Start Num: 18
Candidate Starts for ChiliPepper_62:
(Start: 18 @40251 has 5 MA's), (27, 40446),

Gene: Clayda5_66 Start: 38024, Stop: 38269, Start Num: 13
Candidate Starts for Clayda5_66:
(Start: 13 @38024 has 11 MA's), (Start: 17 @38051 has 3 MA's),

Gene: CliffHanger_75 Start: 40041, Stop: 40280, Start Num: 13
Candidate Starts for CliffHanger_75:
(Start: 13 @40041 has 11 MA's), (21, 40170),

Gene: Coltrane_64 Start: 37958, Stop: 38203, Start Num: 13
Candidate Starts for Coltrane_64:
(Start: 13 @37958 has 11 MA's), (Start: 17 @37985 has 3 MA's),

Gene: CroZenni_66 Start: 39978, Stop: 40208, Start Num: 14
Candidate Starts for CroZenni_66:
(Start: 14 @39978 has 47 MA's), (25, 40155), (27, 40197),

Gene: CupcakePrincess_66 Start: 39981, Stop: 40211, Start Num: 14
Candidate Starts for CupcakePrincess_66:
(12, 39948), (Start: 14 @39981 has 47 MA's),

Gene: DickRichards_64 Start: 39949, Stop: 40179, Start Num: 14
Candidate Starts for DickRichards_64:
(Start: 14 @39949 has 47 MA's), (25, 40126), (27, 40168),

Gene: Didgeridoo_71 Start: 41092, Stop: 41319, Start Num: 14
Candidate Starts for Didgeridoo_71:
(11, 41023), (12, 41059), (Start: 14 @41092 has 47 MA's),

Gene: DirtyBubble_63 Start: 39921, Stop: 40151, Start Num: 14
Candidate Starts for DirtyBubble_63:
(Start: 14 @39921 has 47 MA's), (26, 40128),

Gene: Dismas_64 Start: 40389, Stop: 40595, Start Num: 18
Candidate Starts for Dismas_64:
(10, 40296), (Start: 18 @40389 has 5 MA's), (27, 40584),

Gene: Doobus_64 Start: 39804, Stop: 40034, Start Num: 14
Candidate Starts for Doobus_64:
(Start: 14 @39804 has 47 MA's), (25, 39981), (27, 40023),

Gene: Eden_64 Start: 38679, Stop: 38897, Start Num: 16
Candidate Starts for Eden_64:
(Start: 16 @38679 has 10 MA's), (23, 38826),

Gene: Elva_68 Start: 40764, Stop: 40991, Start Num: 15
Candidate Starts for Elva_68:
(Start: 15 @40764 has 4 MA's), (27, 40980),

Gene: Eula_65 Start: 39714, Stop: 39944, Start Num: 14

Candidate Starts for Eula_65:
(12, 39681), (Start: 14 @39714 has 47 MA's),

Gene: Finalfrontier_66 Start: 40698, Stop: 40928, Start Num: 14
Candidate Starts for Finalfrontier_66:
(4, 40530), (12, 40665), (Start: 14 @40698 has 47 MA's), (27, 40917),

Gene: FlameThrower_61 Start: 39811, Stop: 40029, Start Num: 16
Candidate Starts for FlameThrower_61:
(Start: 16 @39811 has 10 MA's), (19, 39892), (27, 40018),

Gene: Franklin22_66 Start: 38403, Stop: 38618, Start Num: 17
Candidate Starts for Franklin22_66:
(Start: 17 @38403 has 3 MA's),

Gene: Gack_63 Start: 38308, Stop: 38523, Start Num: 17
Candidate Starts for Gack_63:
(1, 37993), (7, 38149), (Start: 17 @38308 has 3 MA's),

Gene: Icarian_66 Start: 40572, Stop: 40802, Start Num: 15
Candidate Starts for Icarian_66:
(Start: 15 @40572 has 4 MA's),

Gene: IndyLu_68 Start: 40713, Stop: 40940, Start Num: 14
Candidate Starts for IndyLu_68:
(11, 40644), (12, 40680), (Start: 14 @40713 has 47 MA's), (27, 40929),

Gene: Jabb_66 Start: 39981, Stop: 40211, Start Num: 14
Candidate Starts for Jabb_66:
(12, 39948), (Start: 14 @39981 has 47 MA's),

Gene: Johnathan_65 Start: 39493, Stop: 39723, Start Num: 14
Candidate Starts for Johnathan_65:
(Start: 14 @39493 has 47 MA's), (25, 39670), (27, 39712),

Gene: Jovita_64 Start: 39482, Stop: 39712, Start Num: 14
Candidate Starts for Jovita_64:
(11, 39413), (Start: 14 @39482 has 47 MA's),

Gene: Kamdara_62 Start: 40210, Stop: 40416, Start Num: 18
Candidate Starts for Kamdara_62:
(Start: 18 @40210 has 5 MA's), (27, 40405),

Gene: Kate33_70 Start: 40443, Stop: 40670, Start Num: 14
Candidate Starts for Kate33_70:
(11, 40374), (12, 40410), (Start: 14 @40443 has 47 MA's), (27, 40659),

Gene: Katzastrophic_63 Start: 40321, Stop: 40539, Start Num: 16
Candidate Starts for Katzastrophic_63:
(Start: 16 @40321 has 10 MA's), (19, 40402), (27, 40528),

Gene: Kenzers_65 Start: 39565, Stop: 39795, Start Num: 14
Candidate Starts for Kenzers_65:

(12, 39532), (Start: 14 @39565 has 47 MA's),

Gene: Kieran_62 Start: 40213, Stop: 40419, Start Num: 18

Candidate Starts for Kieran_62:

(Start: 18 @40213 has 5 MA's), (27, 40408),

Gene: Lahqtemish_66 Start: 40915, Stop: 41142, Start Num: 14

Candidate Starts for Lahqtemish_66:

(11, 40846), (12, 40882), (Start: 14 @40915 has 47 MA's), (26, 41119), (27, 41131),

Gene: Lilo27_67 Start: 40215, Stop: 40445, Start Num: 14

Candidate Starts for Lilo27_67:

(12, 40182), (Start: 14 @40215 has 47 MA's), (27, 40434),

Gene: LimaBean_65 Start: 39387, Stop: 39617, Start Num: 14

Candidate Starts for LimaBean_65:

(Start: 14 @39387 has 47 MA's), (25, 39564), (27, 39606),

Gene: Loviatar_64 Start: 40989, Stop: 41219, Start Num: 14

Candidate Starts for Loviatar_64:

(12, 40956), (Start: 14 @40989 has 47 MA's),

Gene: Lynlen_66 Start: 39718, Stop: 39945, Start Num: 14

Candidate Starts for Lynlen_66:

(12, 39685), (Start: 14 @39718 has 47 MA's),

Gene: Milomuff_67 Start: 40262, Stop: 40492, Start Num: 14

Candidate Starts for Milomuff_67:

(Start: 14 @40262 has 47 MA's), (25, 40439),

Gene: MsUbiquitous_66 Start: 39981, Stop: 40211, Start Num: 14

Candidate Starts for MsUbiquitous_66:

(12, 39948), (Start: 14 @39981 has 47 MA's),

Gene: Nicky22_65 Start: 40157, Stop: 40387, Start Num: 14

Candidate Starts for Nicky22_65:

(11, 40088), (12, 40124), (Start: 14 @40157 has 47 MA's), (26, 40364),

Gene: Olliecat_64 Start: 38251, Stop: 38469, Start Num: 16

Candidate Starts for Olliecat_64:

(Start: 16 @38251 has 10 MA's),

Gene: PastaFagioli_67 Start: 40666, Stop: 40893, Start Num: 14

Candidate Starts for PastaFagioli_67:

(11, 40597), (12, 40633), (Start: 14 @40666 has 47 MA's), (24, 40831), (26, 40870),

Gene: Pecas_66 Start: 40015, Stop: 40245, Start Num: 14

Candidate Starts for Pecas_66:

(12, 39982), (Start: 14 @40015 has 47 MA's),

Gene: PhigPhack_68 Start: 40089, Stop: 40319, Start Num: 14

Candidate Starts for PhigPhack_68:

(Start: 14 @40089 has 47 MA's), (25, 40266), (27, 40308),

Gene: Phisb_67 Start: 40062, Stop: 40292, Start Num: 14
Candidate Starts for Phisb_67:
(Start: 14 @40062 has 47 MA's), (25, 40239), (27, 40281),

Gene: PondAmelia_78 Start: 39948, Stop: 40178, Start Num: 14
Candidate Starts for PondAmelia_78:
(12, 39915), (Start: 14 @39948 has 47 MA's),

Gene: QMacho_67 Start: 40193, Stop: 40423, Start Num: 14
Candidate Starts for QMacho_67:
(Start: 14 @40193 has 47 MA's), (25, 40370), (27, 40412),

Gene: Quenya_66 Start: 40652, Stop: 40870, Start Num: 16
Candidate Starts for Quenya_66:
(Start: 16 @40652 has 10 MA's), (19, 40733), (27, 40859),

Gene: Rollins_64 Start: 38056, Stop: 38301, Start Num: 13
Candidate Starts for Rollins_64:
(Start: 13 @38056 has 11 MA's), (Start: 17 @38083 has 3 MA's),

Gene: Rona_63 Start: 40380, Stop: 40586, Start Num: 18
Candidate Starts for Rona_63:
(10, 40287), (Start: 18 @40380 has 5 MA's), (27, 40575),

Gene: SanaSana_65 Start: 40332, Stop: 40562, Start Num: 15
Candidate Starts for SanaSana_65:
(5, 40188), (12, 40299), (Start: 15 @40332 has 4 MA's),

Gene: SansAfet_67 Start: 40038, Stop: 40268, Start Num: 14
Candidate Starts for SansAfet_67:
(Start: 14 @40038 has 47 MA's), (27, 40257),

Gene: SarBear_66 Start: 39807, Stop: 40037, Start Num: 14
Candidate Starts for SarBear_66:
(12, 39774), (Start: 14 @39807 has 47 MA's),

Gene: Sharkboy_65 Start: 40744, Stop: 40950, Start Num: 18
Candidate Starts for Sharkboy_65:
(Start: 18 @40744 has 5 MA's), (27, 40939),

Gene: Shayna_74 Start: 40663, Stop: 40899, Start Num: 13
Candidate Starts for Shayna_74:
(9, 40555), (Start: 13 @40663 has 11 MA's), (20, 40786), (27, 40888),

Gene: SirBeanington_66 Start: 40298, Stop: 40528, Start Num: 14
Candidate Starts for SirBeanington_66:
(12, 40265), (Start: 14 @40298 has 47 MA's), (23, 40457),

Gene: Skylord_64 Start: 37973, Stop: 38218, Start Num: 13
Candidate Starts for Skylord_64:
(Start: 13 @37973 has 11 MA's), (Start: 17 @38000 has 3 MA's),

Gene: Slay_67 Start: 40573, Stop: 40803, Start Num: 14
Candidate Starts for Slay_67:
(4, 40405), (12, 40540), (Start: 14 @40573 has 47 MA's), (27, 40792),

Gene: Softsoap_67 Start: 40261, Stop: 40491, Start Num: 14
Candidate Starts for Softsoap_67:
(Start: 14 @40261 has 47 MA's), (25, 40438), (27, 40480),

Gene: Solea_68 Start: 40261, Stop: 40491, Start Num: 14
Candidate Starts for Solea_68:
(Start: 14 @40261 has 47 MA's), (25, 40438),

Gene: Squiracle_64 Start: 38250, Stop: 38468, Start Num: 16
Candidate Starts for Squiracle_64:
(Start: 16 @38250 has 10 MA's),

Gene: Stoor_63 Start: 40119, Stop: 40349, Start Num: 15
Candidate Starts for Stoor_63:
(5, 39975), (12, 40086), (Start: 15 @40119 has 4 MA's),

Gene: Stromboli_63 Start: 39920, Stop: 40150, Start Num: 14
Candidate Starts for Stromboli_63:
(Start: 14 @39920 has 47 MA's),

Gene: SunnyD_74 Start: 40663, Stop: 40902, Start Num: 13
Candidate Starts for SunnyD_74:
(3, 40498), (9, 40555), (Start: 13 @40663 has 11 MA's), (19, 40768), (20, 40789), (27, 40891),

Gene: Swervy_66 Start: 39844, Stop: 40074, Start Num: 14
Candidate Starts for Swervy_66:
(12, 39811), (Start: 14 @39844 has 47 MA's),

Gene: Teagster_74 Start: 41084, Stop: 41320, Start Num: 13
Candidate Starts for Teagster_74:
(9, 40976), (Start: 13 @41084 has 11 MA's), (20, 41207), (27, 41309),

Gene: TukTuk_67 Start: 40352, Stop: 40582, Start Num: 14
Candidate Starts for TukTuk_67:
(12, 40319), (Start: 14 @40352 has 47 MA's), (27, 40571),

Gene: Vitas_64 Start: 38029, Stop: 38274, Start Num: 13
Candidate Starts for Vitas_64:
(Start: 13 @38029 has 11 MA's), (Start: 17 @38056 has 3 MA's),

Gene: WalkingDead_66 Start: 41098, Stop: 41328, Start Num: 14
Candidate Starts for WalkingDead_66:
(2, 40915), (Start: 14 @41098 has 47 MA's), (26, 41305), (27, 41317),