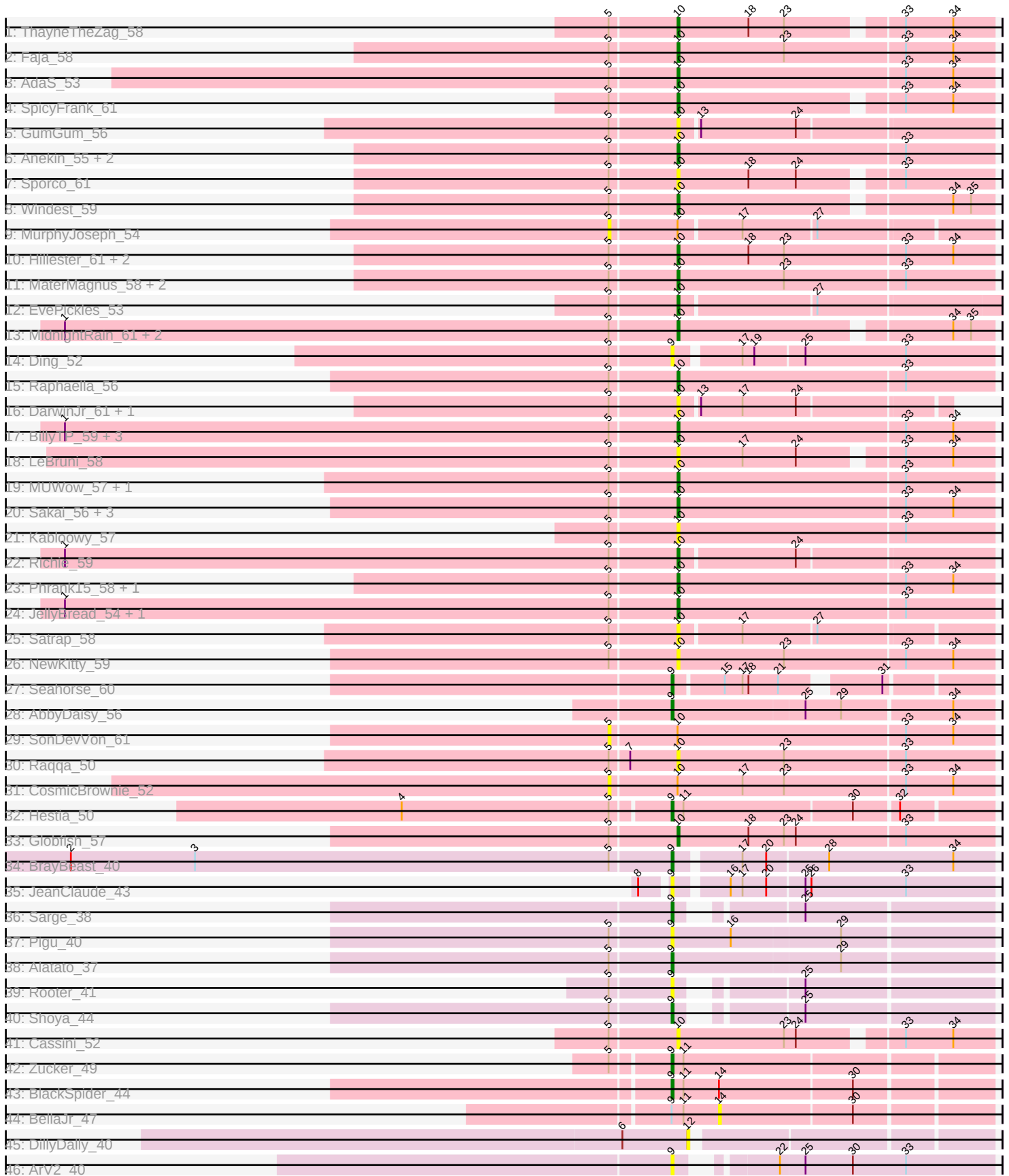


Pham 250630



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 250630 Report

This analysis was run 02/07/26 on database version 634.

Pham number 250630 has 64 members, 26 are drafts.

Phages represented in each track:

- Track 1 : ThayneTheZag_58
- Track 2 : Faja_58
- Track 3 : AdaS_53
- Track 4 : SpicyFrank_61
- Track 5 : GumGum_56
- Track 6 : Anekin_55, BenchScraper_56, Vopal_60
- Track 7 : Sporco_61
- Track 8 : Windest_59
- Track 9 : MurphyJoseph_54
- Track 10 : Hillester_61, RadFad_61, Tiff81_53
- Track 11 : MaterMagnus_58, Aikyam_56, Auxilium_53
- Track 12 : EvePickles_53
- Track 13 : MidnightRain_61, Lasker_56, Mapleville_54
- Track 14 : Ding_52
- Track 15 : Raphaella_56
- Track 16 : DarwinJr_61, Crescenzo_60
- Track 17 : BillyTP_59, CookieBear_57, Isolde_56, BasketStar_59
- Track 18 : LeBruni_58
- Track 19 : MUWow_57, Bhageatrice_58
- Track 20 : Sakai_56, BlueShadow_57, Gorpy_57, Nyilah_56
- Track 21 : Kabloowy_57
- Track 22 : Richie_59
- Track 23 : Phrank15_58, Lawnathon_58
- Track 24 : JellyBread_54, YoungHarleezy_57
- Track 25 : Satrap_58
- Track 26 : NewKitty_59
- Track 27 : Seahorse_60
- Track 28 : AbbyDaisy_56
- Track 29 : SonDevVon_61
- Track 30 : Raqqa_50
- Track 31 : CosmicBrownie_52
- Track 32 : Hestia_50
- Track 33 : Globfish_57
- Track 34 : BrayBeast_40
- Track 35 : JeanClaude_43
- Track 36 : Sarge_38
- Track 37 : Pigu_40

- Track 38 : Alatato_37
- Track 39 : Rooter_41
- Track 40 : Shoya_44
- Track 41 : Cassini_52
- Track 42 : Zucker_49
- Track 43 : BlackSpider_44
- Track 44 : BellaJr_47
- Track 45 : DillyDally_40
- Track 46 : ArV2_40

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

The start number called the most often in the published annotations is 10, it was called in 29 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdaS_53, Aikyam_56, Anekin_55, Auxilium_53, BasketStar_59, BenchScraper_56, Bhageatrice_58, BillyTP_59, BlueShadow_57, Cassini_52, CookieBear_57, Crescenzo_60, DarwinJr_61, EvePickles_53, Faja_58, Globfish_57, Gorpy_57, GumGum_56, Hillester_61, Isolde_56, JellyBread_54, Kabloowy_57, Lasker_56, Lawnathon_58, LeBruni_58, MUWow_57, Mapleville_54, MaterMagnus_58, MidnightRain_61, NewKitty_59, Nyilah_56, Phrank15_58, RadFad_61, Raphaella_56, Raqqa_50, Richie_59, Sakai_56, Satrap_58, SpicyFrank_61, Sporco_61, ThayneTheZag_58, Tiff81_53, Vopal_60, Windest_59, YoungHarleezy_57,

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

- CosmicBrownie_52, MurphyJoseph_54, SonDevVon_61,

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

- AbbyDaisy_56, Alatato_37, ArV2_40, BellaJr_47, BlackSpider_44, BrayBeast_40, DillyDally_40, Ding_52, Hestia_50, JeanClaude_43, Pigu_40, Rooter_41, Sarge_38, Seahorse_60, Shoya_44, Zucker_49,

Summary by start number:

Start 5:

- Found in 56 of 64 (87.5%) of genes in pham
- No Manual Annotations of this start.
- Called 5.4% of time when present
- Phage (with cluster) where this start called: CosmicBrownie_52 (AY), MurphyJoseph_54 (AY), SonDevVon_61 (AY),

Start 9:

- Found in 15 of 64 (23.4%) of genes in pham
- Manual Annotations of this start: 9 of 38
- Called 93.3% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_56 (AY), Alatato_37 (FB), ArV2_40 (singleton), BlackSpider_44 (FN), BrayBeast_40 (FB), Ding_52 (AY), Hestia_50 (AY), JeanClaude_43 (FB), Pigu_40 (FB), Rooter_41 (FB), Sarge_38 (FB), Seahorse_60 (AY), Shoya_44 (FB), Zucker_49 (FN),

Start 10:

- Found in 48 of 64 (75.0%) of genes in pham
- Manual Annotations of this start: 29 of 38
- Called 93.8% of time when present
- Phage (with cluster) where this start called: AdaS_53 (AY), Aikyam_56 (AY), Anekin_55 (AY), Auxilium_53 (AY), BasketStar_59 (AY), BenchScraper_56 (AY), Bhageatrice_58 (AY), BillyTP_59 (AY), BlueShadow_57 (AY), Cassini_52 (FN), CookieBear_57 (AY), Crescenzo_60 (AY), DarwinJr_61 (AY), EvePickles_53 (AY), Faja_58 (AY), Globfish_57 (AY), Gorpy_57 (AY), GumGum_56 (AY), Hillester_61 (AY), Isolde_56 (AY), JellyBread_54 (AY), Kabloowy_57 (AY), Lasker_56 (AY), Lawnathon_58 (AY), LeBruni_58 (AY), MUWow_57 (AY), Mapleville_54 (AY), MaterMagnus_58 (AY), MidnightRain_61 (AY), NewKitty_59 (AY), Nyilah_56 (AY), Phrank15_58 (AY), RadFad_61 (AY), Raphaella_56 (AY), Raqqa_50 (AY), Richie_59 (AY), Sakai_56 (AY), Satrap_58 (AY), SpicyFrank_61 (AY), Sporco_61 (AY), ThayneTheZag_58 (AY), Tiff81_53 (AY), Vopal_60 (AY), Windest_59 (AY), YoungHarleezy_57 (AY),

Start 12:

- Found in 1 of 64 (1.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DillyDally_40 (singleton),

Start 14:

- Found in 2 of 64 (3.1%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BellaJr_47 (FN),

Summary by clusters:

There are 4 clusters represented in this pham: AY, FB, singleton, FN,

Info for manual annotations of cluster AY:

- Start number 9 was manually annotated 3 times for cluster AY.
- Start number 10 was manually annotated 29 times for cluster AY.

Info for manual annotations of cluster FB:

- Start number 9 was manually annotated 4 times for cluster FB.

Info for manual annotations of cluster FN:

- Start number 9 was manually annotated 2 times for cluster FN.

Gene Information:

Gene: AbbyDaisy_56 Start: 33760, Stop: 33918, Start Num: 9

Candidate Starts for AbbyDaisy_56:

(Start: 9 @33760 has 9 MA's), (25, 33826), (29, 33844), (34, 33898),

Gene: AdaS_53 Start: 31700, Stop: 31858, Start Num: 10

Candidate Starts for AdaS_53:

(5, 31667), (Start: 10 @31700 has 29 MA's), (33, 31814), (34, 31838),

Gene: Aikyam_56 Start: 31872, Stop: 32030, Start Num: 10

Candidate Starts for Aikyam_56:

(5, 31839), (Start: 10 @31872 has 29 MA's), (23, 31926), (33, 31986),

Gene: Alatato_37 Start: 26513, Stop: 26671, Start Num: 9

Candidate Starts for Alatato_37:

(5, 26483), (Start: 9 @26513 has 9 MA's), (29, 26597),

Gene: Anekin_55 Start: 33544, Stop: 33702, Start Num: 10

Candidate Starts for Anekin_55:

(5, 33511), (Start: 10 @33544 has 29 MA's), (33, 33658),

Gene: ArV2_40 Start: 25889, Stop: 26032, Start Num: 9

Candidate Starts for ArV2_40:

(Start: 9 @25889 has 9 MA's), (22, 25925), (25, 25937), (30, 25961), (33, 25988),

Gene: Auxilium_53 Start: 31029, Stop: 31187, Start Num: 10

Candidate Starts for Auxilium_53:

(5, 30996), (Start: 10 @31029 has 29 MA's), (23, 31083), (33, 31143),

Gene: BasketStar_59 Start: 34370, Stop: 34528, Start Num: 10

Candidate Starts for BasketStar_59:

(1, 34061), (5, 34337), (Start: 10 @34370 has 29 MA's), (33, 34484), (34, 34508),

Gene: BellaJr_47 Start: 31626, Stop: 31757, Start Num: 14

Candidate Starts for BellaJr_47:

(Start: 9 @31602 has 9 MA's), (11, 31608), (14, 31626), (30, 31692),

Gene: BenchScraper_56 Start: 33194, Stop: 33352, Start Num: 10

Candidate Starts for BenchScraper_56:

(5, 33161), (Start: 10 @33194 has 29 MA's), (33, 33308),

Gene: Bhageatrice_58 Start: 35468, Stop: 35626, Start Num: 10

Candidate Starts for Bhageatrice_58:

(5, 35435), (Start: 10 @35468 has 29 MA's), (33, 35582),

Gene: BillyTP_59 Start: 35066, Stop: 35224, Start Num: 10

Candidate Starts for BillyTP_59:

(1, 34757), (5, 35033), (Start: 10 @35066 has 29 MA's), (33, 35180), (34, 35204),

Gene: BlackSpider_44 Start: 30183, Stop: 30338, Start Num: 9

Candidate Starts for BlackSpider_44:

(Start: 9 @30183 has 9 MA's), (11, 30189), (14, 30207), (30, 30273),

Gene: BlueShadow_57 Start: 33856, Stop: 34014, Start Num: 10

Candidate Starts for BlueShadow_57:

(5, 33823), (Start: 10 @33856 has 29 MA's), (33, 33970), (34, 33994),

Gene: BrayBeast_40 Start: 27217, Stop: 27372, Start Num: 9

Candidate Starts for BrayBeast_40:

(2, 26914), (3, 26977), (5, 27187), (Start: 9 @27217 has 9 MA's), (17, 27247), (20, 27259), (28, 27289), (34, 27352),

Gene: Cassini_52 Start: 32555, Stop: 32704, Start Num: 10

Candidate Starts for Cassini_52:

(5, 32522), (Start: 10 @32555 has 29 MA's), (23, 32609), (24, 32615), (33, 32660), (34, 32684),

Gene: CookieBear_57 Start: 33450, Stop: 33608, Start Num: 10

Candidate Starts for CookieBear_57:

(1, 33141), (5, 33417), (Start: 10 @33450 has 29 MA's), (33, 33564), (34, 33588),

Gene: CosmicBrownie_52 Start: 31869, Stop: 32060, Start Num: 5

Candidate Starts for CosmicBrownie_52:

(5, 31869), (Start: 10 @31902 has 29 MA's), (17, 31935), (23, 31956), (33, 32016), (34, 32040),

Gene: Crescenzo_60 Start: 34595, Stop: 34744, Start Num: 10

Candidate Starts for Crescenzo_60:

(5, 34562), (Start: 10 @34595 has 29 MA's), (13, 34604), (17, 34625), (24, 34652),

Gene: DarwinJr_61 Start: 34663, Stop: 34791, Start Num: 10

Candidate Starts for DarwinJr_61:

(5, 34630), (Start: 10 @34663 has 29 MA's), (13, 34672), (17, 34693), (24, 34720),

Gene: DillyDally_40 Start: 27254, Stop: 27394, Start Num: 12

Candidate Starts for DillyDally_40:

(6, 27221), (12, 27254),

Gene: Ding_52 Start: 31794, Stop: 31949, Start Num: 9

Candidate Starts for Ding_52:

(5, 31764), (Start: 9 @31794 has 9 MA's), (17, 31824), (19, 31830), (25, 31854), (33, 31905),

Gene: EvePickles_53 Start: 33650, Stop: 33805, Start Num: 10

Candidate Starts for EvePickles_53:

(5, 33617), (Start: 10 @33650 has 29 MA's), (27, 33716),

Gene: Faja_58 Start: 35034, Stop: 35192, Start Num: 10

Candidate Starts for Faja_58:

(5, 35001), (Start: 10 @35034 has 29 MA's), (23, 35088), (33, 35148), (34, 35172),

Gene: Globfish_57 Start: 33549, Stop: 33707, Start Num: 10

Candidate Starts for Globfish_57:

(5, 33516), (Start: 10 @33549 has 29 MA's), (18, 33585), (23, 33603), (24, 33609), (33, 33663),

Gene: Gorpy_57 Start: 34442, Stop: 34600, Start Num: 10

Candidate Starts for Gorpy_57:

(5, 34409), (Start: 10 @34442 has 29 MA's), (33, 34556), (34, 34580),

Gene: GumGum_56 Start: 32584, Stop: 32736, Start Num: 10

Candidate Starts for GumGum_56:

(5, 32551), (Start: 10 @32584 has 29 MA's), (13, 32593), (24, 32641),

Gene: Hestia_50 Start: 31086, Stop: 31241, Start Num: 9

Candidate Starts for Hestia_50:

(4, 30954), (5, 31059), (Start: 9 @31086 has 9 MA's), (11, 31092), (30, 31176), (32, 31197),

Gene: Hillester_61 Start: 34795, Stop: 34953, Start Num: 10

Candidate Starts for Hillester_61:

(5, 34762), (Start: 10 @34795 has 29 MA's), (18, 34831), (23, 34849), (33, 34909), (34, 34933),

Gene: Isolde_56 Start: 33119, Stop: 33277, Start Num: 10

Candidate Starts for Isolde_56:

(1, 32810), (5, 33086), (Start: 10 @33119 has 29 MA's), (33, 33233), (34, 33257),

Gene: JeanClaude_43 Start: 26505, Stop: 26660, Start Num: 9

Candidate Starts for JeanClaude_43:

(8, 26493), (Start: 9 @26505 has 9 MA's), (16, 26529), (17, 26535), (20, 26547), (25, 26565), (26, 26568), (33, 26616),

Gene: JellyBread_54 Start: 32240, Stop: 32398, Start Num: 10

Candidate Starts for JellyBread_54:

(1, 31931), (5, 32207), (Start: 10 @32240 has 29 MA's), (33, 32354),

Gene: Kabloowy_57 Start: 34136, Stop: 34294, Start Num: 10

Candidate Starts for Kabloowy_57:

(5, 34103), (Start: 10 @34136 has 29 MA's), (33, 34250),

Gene: Lasker_56 Start: 33894, Stop: 34043, Start Num: 10

Candidate Starts for Lasker_56:

(1, 33585), (5, 33861), (Start: 10 @33894 has 29 MA's), (34, 34023), (35, 34032),

Gene: Lawnathon_58 Start: 33611, Stop: 33769, Start Num: 10

Candidate Starts for Lawnathon_58:

(5, 33578), (Start: 10 @33611 has 29 MA's), (33, 33725), (34, 33749),

Gene: LeBruni_58 Start: 32818, Stop: 32967, Start Num: 10

Candidate Starts for LeBruni_58:

(5, 32785), (Start: 10 @32818 has 29 MA's), (17, 32851), (24, 32878), (33, 32923), (34, 32947),

Gene: MUWow_57 Start: 33531, Stop: 33689, Start Num: 10

Candidate Starts for MUWow_57:

(5, 33498), (Start: 10 @33531 has 29 MA's), (33, 33645),

Gene: Mapleville_54 Start: 32942, Stop: 33091, Start Num: 10

Candidate Starts for Mapleville_54:

(1, 32633), (5, 32909), (Start: 10 @32942 has 29 MA's), (34, 33071), (35, 33080),

Gene: MaterMagnus_58 Start: 34044, Stop: 34202, Start Num: 10

Candidate Starts for MaterMagnus_58:

(5, 34011), (Start: 10 @34044 has 29 MA's), (23, 34098), (33, 34158),

Gene: MidnightRain_61 Start: 34972, Stop: 35121, Start Num: 10

Candidate Starts for MidnightRain_61:

(1, 34663), (5, 34939), (Start: 10 @34972 has 29 MA's), (34, 35101), (35, 35110),

Gene: MurphyJoseph_54 Start: 32347, Stop: 32529, Start Num: 5

Candidate Starts for MurphyJoseph_54:

(5, 32347), (Start: 10 @32380 has 29 MA's), (17, 32410), (27, 32446),

Gene: NewKitty_59 Start: 33315, Stop: 33473, Start Num: 10

Candidate Starts for NewKitty_59:

(5, 33282), (Start: 10 @33315 has 29 MA's), (23, 33369), (33, 33429), (34, 33453),

Gene: Nyilah_56 Start: 32058, Stop: 32216, Start Num: 10

Candidate Starts for Nyilah_56:

(5, 32025), (Start: 10 @32058 has 29 MA's), (33, 32172), (34, 32196),

Gene: Phrank15_58 Start: 33748, Stop: 33906, Start Num: 10

Candidate Starts for Phrank15_58:

(5, 33715), (Start: 10 @33748 has 29 MA's), (33, 33862), (34, 33886),

Gene: Pigu_40 Start: 26382, Stop: 26540, Start Num: 9

Candidate Starts for Pigu_40:

(5, 26352), (Start: 9 @26382 has 9 MA's), (16, 26412), (29, 26466),

Gene: RadFad_61 Start: 34795, Stop: 34953, Start Num: 10

Candidate Starts for RadFad_61:

(5, 34762), (Start: 10 @34795 has 29 MA's), (18, 34831), (23, 34849), (33, 34909), (34, 34933),

Gene: Raphaella_56 Start: 33054, Stop: 33212, Start Num: 10

Candidate Starts for Raphaella_56:

(5, 33021), (Start: 10 @33054 has 29 MA's), (33, 33168),

Gene: Raqqa_50 Start: 31059, Stop: 31217, Start Num: 10

Candidate Starts for Raqqa_50:

(5, 31026), (7, 31035), (Start: 10 @31059 has 29 MA's), (23, 31113), (33, 31173),

Gene: Richie_59 Start: 34120, Stop: 34272, Start Num: 10

Candidate Starts for Richie_59:

(1, 33811), (5, 34087), (Start: 10 @34120 has 29 MA's), (24, 34177),

Gene: Rooter_41 Start: 26755, Stop: 26895, Start Num: 9

Candidate Starts for Rooter_41:

(5, 26725), (Start: 9 @26755 has 9 MA's), (25, 26803),

Gene: Sakai_56 Start: 33153, Stop: 33311, Start Num: 10

Candidate Starts for Sakai_56:

(5, 33120), (Start: 10 @33153 has 29 MA's), (33, 33267), (34, 33291),

Gene: Sarge_38 Start: 25563, Stop: 25703, Start Num: 9

Candidate Starts for Sarge_38:

(Start: 9 @25563 has 9 MA's), (25, 25611),

Gene: Satrap_58 Start: 33582, Stop: 33731, Start Num: 10

Candidate Starts for Satrap_58:

(5, 33549), (Start: 10 @33582 has 29 MA's), (17, 33612), (27, 33648),

Gene: Seahorse_60 Start: 35386, Stop: 35529, Start Num: 9

Candidate Starts for Seahorse_60:

(Start: 9 @35386 has 9 MA's), (15, 35410), (17, 35419), (18, 35422), (21, 35437), (31, 35479),

Gene: Shoya_44 Start: 27531, Stop: 27671, Start Num: 9

Candidate Starts for Shoya_44:

(5, 27501), (Start: 9 @27531 has 9 MA's), (25, 27579),

Gene: SonDevVon_61 Start: 33726, Stop: 33917, Start Num: 5

Candidate Starts for SonDevVon_61:

(5, 33726), (Start: 10 @33759 has 29 MA's), (33, 33873), (34, 33897),

Gene: SpicyFrank_61 Start: 34658, Stop: 34807, Start Num: 10

Candidate Starts for SpicyFrank_61:

(5, 34625), (Start: 10 @34658 has 29 MA's), (33, 34763), (34, 34787),

Gene: Sporco_61 Start: 34608, Stop: 34757, Start Num: 10

Candidate Starts for Sporco_61:

(5, 34575), (Start: 10 @34608 has 29 MA's), (18, 34644), (24, 34668), (33, 34713),

Gene: ThayneTheZag_58 Start: 33227, Stop: 33376, Start Num: 10

Candidate Starts for ThayneTheZag_58:

(5, 33194), (Start: 10 @33227 has 29 MA's), (18, 33263), (23, 33281), (33, 33332), (34, 33356),

Gene: Tiff81_53 Start: 31564, Stop: 31722, Start Num: 10

Candidate Starts for Tiff81_53:

(5, 31531), (Start: 10 @31564 has 29 MA's), (18, 31600), (23, 31618), (33, 31678), (34, 31702),

Gene: Vopal_60 Start: 36689, Stop: 36838, Start Num: 10

Candidate Starts for Vopal_60:

(5, 36656), (Start: 10 @36689 has 29 MA's), (33, 36794),

Gene: Windest_59 Start: 32459, Stop: 32608, Start Num: 10

Candidate Starts for Windest_59:

(5, 32426), (Start: 10 @32459 has 29 MA's), (34, 32588), (35, 32597),

Gene: YoungHarleezy_57 Start: 33617, Stop: 33775, Start Num: 10

Candidate Starts for YoungHarleezy_57:

(1, 33308), (5, 33584), (Start: 10 @33617 has 29 MA's), (33, 33731),

Gene: Zucker_49 Start: 32109, Stop: 32264, Start Num: 9

Candidate Starts for Zucker_49:

(5, 32082), (Start: 9 @32109 has 9 MA's), (11, 32115),