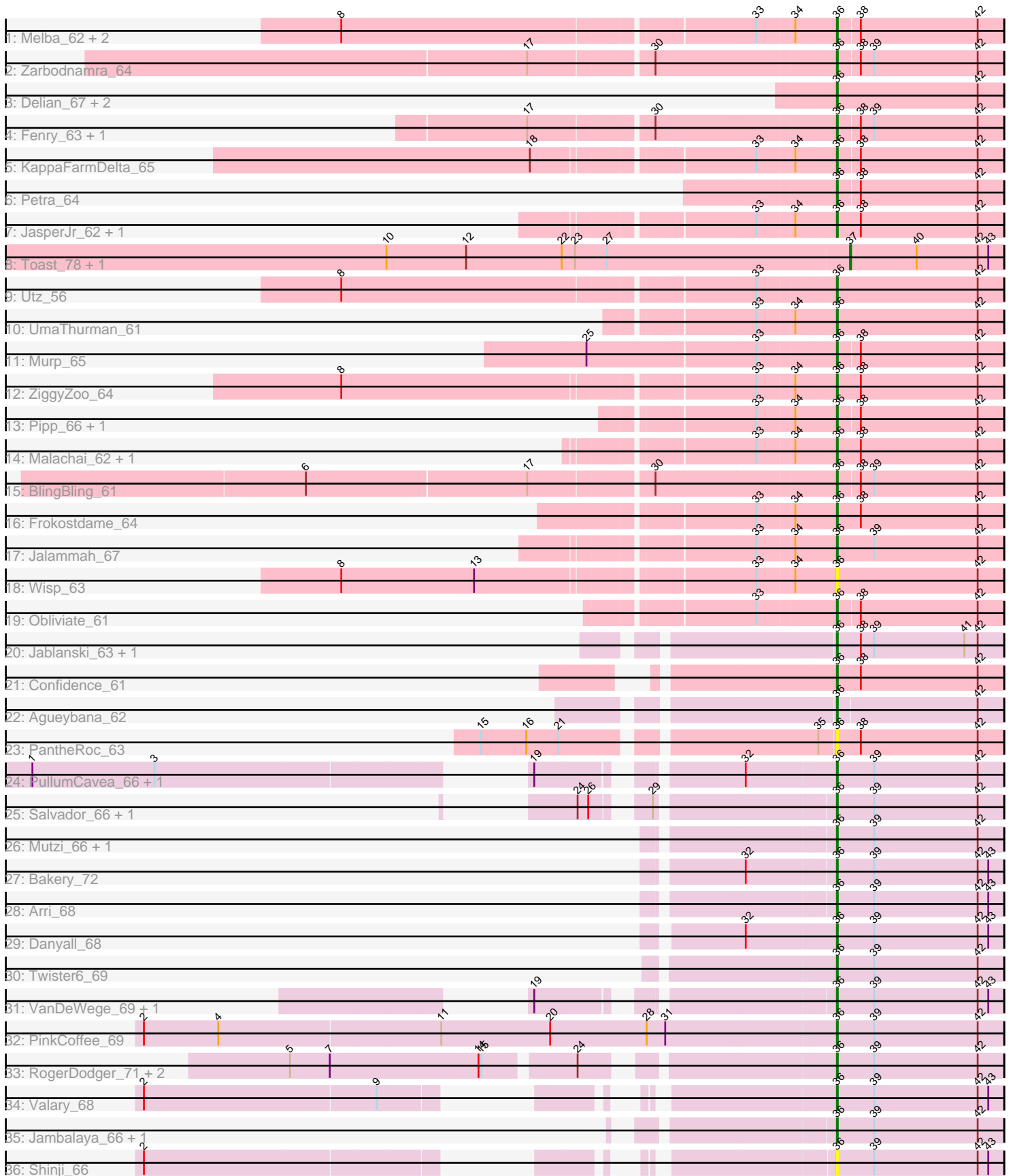


Pham 1735



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 1735 Report

This analysis was run 04/28/24 on database version 559.

Pham number 1735 has 53 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Melba_62, Barco_62, Lysidious_66
- Track 2 : Zarbodnamra_64
- Track 3 : Delian_67, CaptainKirk2_64, MintFen_64
- Track 4 : Fenry_63, Samba_64
- Track 5 : KappaFarmDelta_65
- Track 6 : Petra_64
- Track 7 : JasperJr_62, Guacamole_62
- Track 8 : Toast_78, PCoral7_77
- Track 9 : Utz_56
- Track 10 : UmaThurman_61
- Track 11 : Murp_65
- Track 12 : ZiggyZoo_64
- Track 13 : Pipp_66, Walrus_62
- Track 14 : Malachai_62, Begonia_62
- Track 15 : BlingBling_61
- Track 16 : Frokostdame_64
- Track 17 : Jalammah_67
- Track 18 : Wisp_63
- Track 19 : Obliviate_61
- Track 20 : Jablanski_63, Pytheas_63
- Track 21 : Confidence_61
- Track 22 : Agueybana_62
- Track 23 : PantheRoc_63
- Track 24 : PullumCavea_66, Phlop_65
- Track 25 : Salvador_66, Evamon_66
- Track 26 : Mutzi_66, YungMoney_67
- Track 27 : Bakery_72
- Track 28 : Arri_68
- Track 29 : Danyall_68
- Track 30 : Twister6_69
- Track 31 : VanDeWege_69, Nubi_67
- Track 32 : PinkCoffee_69
- Track 33 : RogerDodger_71, Togo_67, SmokingBunny_68
- Track 34 : Valary_68
- Track 35 : Jambalaya_66, Savbucketdawg_66
- Track 36 : Shinji_66

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

The start number called the most often in the published annotations is 36, it was called in 48 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana_62, Arri_68, Bakery_72, Barco_62, Begonia_62, BlingBling_61, CaptainKirk2_64, Confidence_61, Danyall_68, Delian_67, Evamon_66, Fenry_63, Frokostdame_64, Guacamole_62, Jablanski_63, Jalammah_67, Jambalaya_66, JasperJr_62, KappaFarmDelta_65, Lysidious_66, Malachai_62, Melba_62, MintFen_64, Murp_65, Mutzi_66, Nubi_67, Obliviate_61, PantheRoc_63, Petra_64, Phlop_65, PinkCoffee_69, Pipp_66, PullumCavea_66, Pytheas_63, RogerDodger_71, Salvador_66, Samba_64, Savbucketdawg_66, Shinji_66, SmokingBunny_68, Togo_67, Twister6_69, UmaThurman_61, Utz_56, Valary_68, VanDeWege_69, Walrus_62, Wisp_63, YungMoney_67, Zarbodnamra_64, ZiggyZoo_64,

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

-

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

- PCoral7_77, Toast_78,

Summary by start number:

Start 36:

- Found in 51 of 53 (96.2%) of genes in pham
- Manual Annotations of this start: 48 of 50
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana_62 (CZ1), Arri_68 (DC1), Bakery_72 (DC1), Barco_62 (CV), Begonia_62 (CV), BlingBling_61 (CV), CaptainKirk2_64 (CV), Confidence_61 (CY1), Danyall_68 (DC1), Delian_67 (CV), Evamon_66 (DC1), Fenry_63 (CV), Frokostdame_64 (CV), Guacamole_62 (CV), Jablanski_63 (CY), Jalammah_67 (CV), Jambalaya_66 (DC1), JasperJr_62 (CV), KappaFarmDelta_65 (CV), Lysidious_66 (CV), Malachai_62 (CV), Melba_62 (CV), MintFen_64 (CV), Murp_65 (CV), Mutzi_66 (DC1), Nubi_67 (DC1), Obliviate_61 (CV), PantheRoc_63 (CZ3), Petra_64 (CV), Phlop_65 (DC1), PinkCoffee_69 (DC1), Pipp_66 (CV), PullumCavea_66 (DC1), Pytheas_63 (CY), RogerDodger_71 (DC1), Salvador_66 (DC1), Samba_64 (CV), Savbucketdawg_66 (DC1), Shinji_66 (DC1), SmokingBunny_68 (DC1), Togo_67 (DC1), Twister6_69 (DC1), UmaThurman_61 (CV), Utz_56 (CV), Valary_68 (DC1), VanDeWege_69 (DC1), Walrus_62 (CV), Wisp_63 (CV), YungMoney_67 (DC1), Zarbodnamra_64 (CV), ZiggyZoo_64 (CV),

Start 37:

- Found in 2 of 53 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 50
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PCoral7_77 (CV), Toast_78 (CV),

Summary by clusters:

There are 6 clusters represented in this pham: CY1, CZ3, CZ1, CY, CV, DC1,

Info for manual annotations of cluster CV:

- Start number 36 was manually annotated 25 times for cluster CV.
- Start number 37 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CY:

- Start number 36 was manually annotated 2 times for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 36 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CZ1:

- Start number 36 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster DC1:

- Start number 36 was manually annotated 19 times for cluster DC1.

Gene Information:

Gene: Agueybana_62 Start: 42973, Stop: 43158, Start Num: 36

Candidate Starts for Agueybana_62:

(Start: 36 @42973 has 48 MA's), (42, 43129),

Gene: Arri_68 Start: 48891, Stop: 49079, Start Num: 36

Candidate Starts for Arri_68:

(Start: 36 @48891 has 48 MA's), (39, 48933), (42, 49050), (43, 49062),

Gene: Bakery_72 Start: 51339, Stop: 51527, Start Num: 36

Candidate Starts for Bakery_72:

(32, 51243), (Start: 36 @51339 has 48 MA's), (39, 51381), (42, 51498), (43, 51510),

Gene: Barco_62 Start: 40226, Stop: 40411, Start Num: 36

Candidate Starts for Barco_62:

(8, 39704), (33, 40142), (34, 40181), (Start: 36 @40226 has 48 MA's), (38, 40250), (42, 40382),

Gene: Begonia_62 Start: 42441, Stop: 42629, Start Num: 36

Candidate Starts for Begonia_62:

(33, 42357), (34, 42396), (Start: 36 @42441 has 48 MA's), (38, 42468), (42, 42600),

Gene: BlingBling_61 Start: 41057, Stop: 41242, Start Num: 36

Candidate Starts for BlingBling_61:

(6, 40487), (17, 40733), (30, 40859), (Start: 36 @41057 has 48 MA's), (38, 41081), (39, 41096), (42, 41213),

Gene: CaptainKirk2_64 Start: 40441, Stop: 40629, Start Num: 36

Candidate Starts for CaptainKirk2_64:

(Start: 36 @40441 has 48 MA's), (42, 40600),

Gene: Confidence_61 Start: 41167, Stop: 41355, Start Num: 36

Candidate Starts for Confidence_61:

(Start: 36 @41167 has 48 MA's), (38, 41194), (42, 41326),

Gene: Danyall_68 Start: 48862, Stop: 49050, Start Num: 36

Candidate Starts for Danyall_68:

(32, 48763), (Start: 36 @48862 has 48 MA's), (39, 48904), (42, 49021), (43, 49033),

Gene: Delian_67 Start: 40439, Stop: 40627, Start Num: 36

Candidate Starts for Delian_67:

(Start: 36 @40439 has 48 MA's), (42, 40598),

Gene: Evamon_66 Start: 48429, Stop: 48617, Start Num: 36

Candidate Starts for Evamon_66:

(24, 48189), (26, 48201), (29, 48243), (Start: 36 @48429 has 48 MA's), (39, 48471), (42, 48588),

Gene: Fenry_63 Start: 42347, Stop: 42532, Start Num: 36

Candidate Starts for Fenry_63:

(17, 42023), (30, 42149), (Start: 36 @42347 has 48 MA's), (38, 42371), (39, 42386), (42, 42503),

Gene: Frokostdame_64 Start: 41688, Stop: 41876, Start Num: 36

Candidate Starts for Frokostdame_64:

(33, 41604), (34, 41643), (Start: 36 @41688 has 48 MA's), (38, 41715), (42, 41847),

Gene: Guacamole_62 Start: 41315, Stop: 41503, Start Num: 36

Candidate Starts for Guacamole_62:

(33, 41231), (34, 41270), (Start: 36 @41315 has 48 MA's), (38, 41342), (42, 41474),

Gene: Jablanski_63 Start: 45344, Stop: 45532, Start Num: 36

Candidate Starts for Jablanski_63:

(Start: 36 @45344 has 48 MA's), (38, 45371), (39, 45386), (41, 45488), (42, 45503),

Gene: Jalammah_67 Start: 43247, Stop: 43435, Start Num: 36

Candidate Starts for Jalammah_67:

(33, 43163), (34, 43202), (Start: 36 @43247 has 48 MA's), (39, 43289), (42, 43406),

Gene: Jambalaya_66 Start: 48737, Stop: 48925, Start Num: 36

Candidate Starts for Jambalaya_66:

(Start: 36 @48737 has 48 MA's), (39, 48779), (42, 48896),

Gene: JasperJr_62 Start: 41315, Stop: 41503, Start Num: 36

Candidate Starts for JasperJr_62:

(33, 41231), (34, 41270), (Start: 36 @41315 has 48 MA's), (38, 41342), (42, 41474),

Gene: KappaFarmDelta_65 Start: 40484, Stop: 40669, Start Num: 36

Candidate Starts for KappaFarmDelta_65:

(18, 40178), (33, 40400), (34, 40439), (Start: 36 @40484 has 48 MA's), (38, 40508), (42, 40640),

Gene: Lysidious_66 Start: 42976, Stop: 43161, Start Num: 36

Candidate Starts for Lysidious_66:

(8, 42454), (33, 42892), (34, 42931), (Start: 36 @42976 has 48 MA's), (38, 43000), (42, 43132),

Gene: Malachai_62 Start: 42441, Stop: 42629, Start Num: 36

Candidate Starts for Malachai_62:

(33, 42357), (34, 42396), (Start: 36 @42441 has 48 MA's), (38, 42468), (42, 42600),

Gene: Melba_62 Start: 40487, Stop: 40672, Start Num: 36

Candidate Starts for Melba_62:

(8, 39965), (33, 40403), (34, 40442), (Start: 36 @40487 has 48 MA's), (38, 40511), (42, 40643),

Gene: MintFen_64 Start: 41055, Stop: 41243, Start Num: 36

Candidate Starts for MintFen_64:

(Start: 36 @41055 has 48 MA's), (42, 41214),

Gene: Murp_65 Start: 44113, Stop: 44298, Start Num: 36

Candidate Starts for Murp_65:

(25, 43846), (33, 44029), (Start: 36 @44113 has 48 MA's), (38, 44137), (42, 44269),

Gene: Mutzi_66 Start: 50067, Stop: 50255, Start Num: 36

Candidate Starts for Mutzi_66:

(Start: 36 @50067 has 48 MA's), (39, 50109), (42, 50226),

Gene: Nubi_67 Start: 48519, Stop: 48707, Start Num: 36

Candidate Starts for Nubi_67:

(19, 48234), (Start: 36 @48519 has 48 MA's), (39, 48561), (42, 48678), (43, 48690),

Gene: Obliviate_61 Start: 39702, Stop: 39887, Start Num: 36

Candidate Starts for Obliviate_61:

(33, 39618), (Start: 36 @39702 has 48 MA's), (38, 39726), (42, 39858),

Gene: PCoral7_77 Start: 48297, Stop: 48470, Start Num: 37

Candidate Starts for PCoral7_77:

(10, 47778), (12, 47868), (22, 47976), (23, 47991), (27, 48027), (Start: 37 @48297 has 2 MA's), (40, 48372), (42, 48441), (43, 48453),

Gene: PantheRoc_63 Start: 43017, Stop: 43205, Start Num: 36

Candidate Starts for PantheRoc_63:

(15, 42654), (16, 42705), (21, 42741), (35, 42999), (Start: 36 @43017 has 48 MA's), (38, 43044), (42, 43176),

Gene: Petra_64 Start: 41118, Stop: 41303, Start Num: 36

Candidate Starts for Petra_64:

(Start: 36 @41118 has 48 MA's), (38, 41142), (42, 41274),

Gene: Phlop_65 Start: 48897, Stop: 49085, Start Num: 36

Candidate Starts for Phlop_65:

(1, 48147), (3, 48285), (19, 48609), (32, 48798), (Start: 36 @48897 has 48 MA's), (39, 48939), (42, 49056),

Gene: PinkCoffee_69 Start: 48903, Stop: 49091, Start Num: 36

Candidate Starts for PinkCoffee_69:

(2, 48132), (4, 48216), (11, 48462), (20, 48585), (28, 48693), (31, 48714), (Start: 36 @48903 has 48 MA's), (39, 48945), (42, 49062),

Gene: Pipp_66 Start: 41806, Stop: 41991, Start Num: 36

Candidate Starts for Pipp_66:

(33, 41722), (34, 41761), (Start: 36 @41806 has 48 MA's), (38, 41830), (42, 41962),

Gene: PullumCavea_66 Start: 49074, Stop: 49262, Start Num: 36

Candidate Starts for PullumCavea_66:

(1, 48324), (3, 48462), (19, 48786), (32, 48975), (Start: 36 @49074 has 48 MA's), (39, 49116), (42, 49233),

Gene: Pytheas_63 Start: 45343, Stop: 45531, Start Num: 36

Candidate Starts for Pytheas_63:

(Start: 36 @45343 has 48 MA's), (38, 45370), (39, 45385), (41, 45487), (42, 45502),

Gene: RogerDodger_71 Start: 49783, Stop: 49971, Start Num: 36

Candidate Starts for RogerDodger_71:

(5, 49228), (7, 49273), (14, 49441), (15, 49444), (24, 49537), (Start: 36 @49783 has 48 MA's), (39, 49825), (42, 49942),

Gene: Salvador_66 Start: 48427, Stop: 48615, Start Num: 36

Candidate Starts for Salvador_66:

(24, 48187), (26, 48199), (29, 48241), (Start: 36 @48427 has 48 MA's), (39, 48469), (42, 48586),

Gene: Samba_64 Start: 43675, Stop: 43860, Start Num: 36

Candidate Starts for Samba_64:

(17, 43351), (30, 43477), (Start: 36 @43675 has 48 MA's), (38, 43699), (39, 43714), (42, 43831),

Gene: Savbucketdawg_66 Start: 48737, Stop: 48925, Start Num: 36

Candidate Starts for Savbucketdawg_66:

(Start: 36 @48737 has 48 MA's), (39, 48779), (42, 48896),

Gene: Shinji_66 Start: 48420, Stop: 48608, Start Num: 36

Candidate Starts for Shinji_66:

(2, 47835), (Start: 36 @48420 has 48 MA's), (39, 48462), (42, 48579), (43, 48591),

Gene: SmokingBunny_68 Start: 49621, Stop: 49809, Start Num: 36

Candidate Starts for SmokingBunny_68:

(5, 49066), (7, 49111), (14, 49279), (15, 49282), (24, 49375), (Start: 36 @49621 has 48 MA's), (39, 49663), (42, 49780),

Gene: Toast_78 Start: 48297, Stop: 48470, Start Num: 37

Candidate Starts for Toast_78:

(10, 47778), (12, 47868), (22, 47976), (23, 47991), (27, 48027), (Start: 37 @48297 has 2 MA's), (40, 48372), (42, 48441), (43, 48453),

Gene: Togo_67 Start: 49621, Stop: 49809, Start Num: 36

Candidate Starts for Togo_67:

(5, 49066), (7, 49111), (14, 49279), (15, 49282), (24, 49375), (Start: 36 @49621 has 48 MA's), (39, 49663), (42, 49780),

Gene: Twister6_69 Start: 48665, Stop: 48853, Start Num: 36

Candidate Starts for Twister6_69:

(Start: 36 @48665 has 48 MA's), (39, 48707), (42, 48824),

Gene: UmaThurman_61 Start: 41127, Stop: 41315, Start Num: 36

Candidate Starts for UmaThurman_61:

(33, 41043), (34, 41082), (Start: 36 @41127 has 48 MA's), (42, 41286),

Gene: Utz_56 Start: 41024, Stop: 41212, Start Num: 36

Candidate Starts for Utz_56:

(8, 40502), (33, 40940), (Start: 36 @41024 has 48 MA's), (42, 41183),

Gene: Valary_68 Start: 49461, Stop: 49649, Start Num: 36

Candidate Starts for Valary_68:

(2, 48873), (9, 49131), (Start: 36 @49461 has 48 MA's), (39, 49503), (42, 49620), (43, 49632),

Gene: VanDeWege_69 Start: 48954, Stop: 49142, Start Num: 36

Candidate Starts for VanDeWege_69:

(19, 48669), (Start: 36 @48954 has 48 MA's), (39, 48996), (42, 49113), (43, 49125),

Gene: Walrus_62 Start: 40614, Stop: 40799, Start Num: 36

Candidate Starts for Walrus_62:

(33, 40530), (34, 40569), (Start: 36 @40614 has 48 MA's), (38, 40638), (42, 40770),

Gene: Wisp_63 Start: 41464, Stop: 41652, Start Num: 36

Candidate Starts for Wisp_63:

(8, 40945), (13, 41095), (33, 41380), (34, 41419), (Start: 36 @41464 has 48 MA's), (42, 41623),

Gene: YungMoney_67 Start: 50907, Stop: 51095, Start Num: 36

Candidate Starts for YungMoney_67:

(Start: 36 @50907 has 48 MA's), (39, 50949), (42, 51066),

Gene: Zarbodnamra_64 Start: 40861, Stop: 41046, Start Num: 36

Candidate Starts for Zarbodnamra_64:

(17, 40537), (30, 40663), (Start: 36 @40861 has 48 MA's), (38, 40885), (39, 40900), (42, 41017),

Gene: ZiggyZoo_64 Start: 42517, Stop: 42705, Start Num: 36

Candidate Starts for ZiggyZoo_64:

(8, 41998), (33, 42433), (34, 42472), (Start: 36 @42517 has 48 MA's), (38, 42544), (42, 42676),