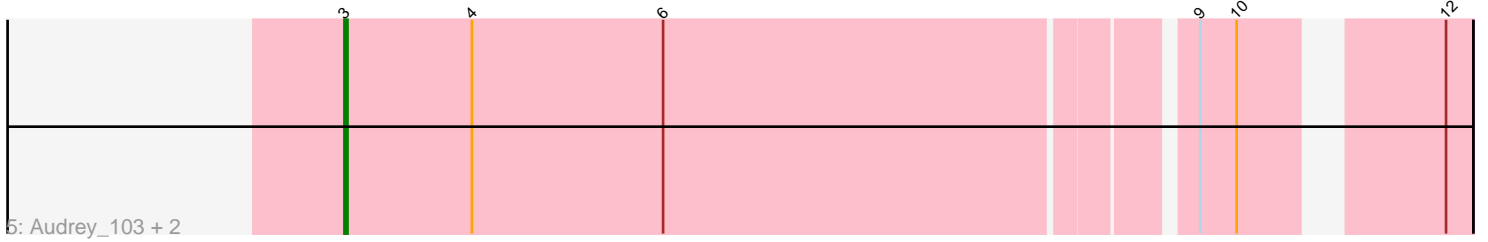
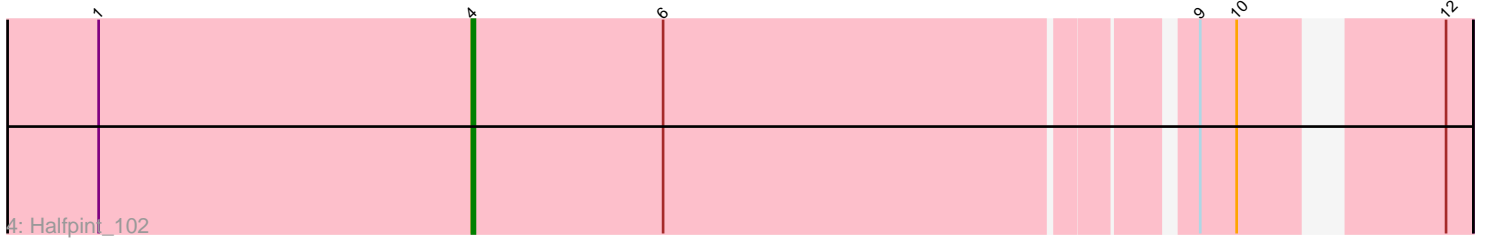
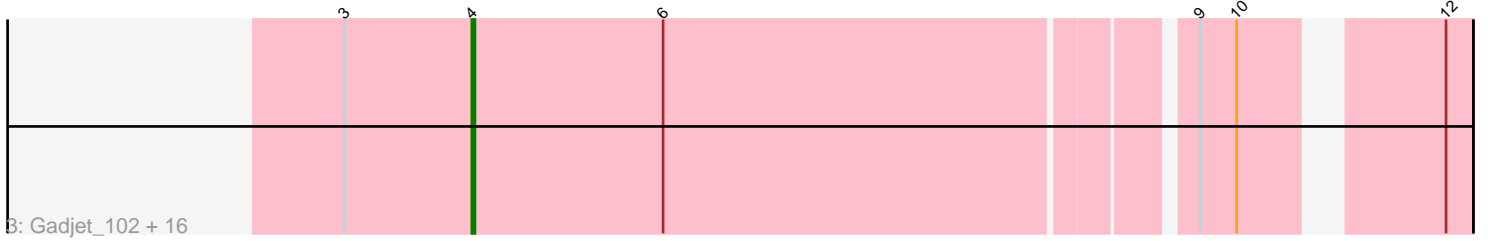
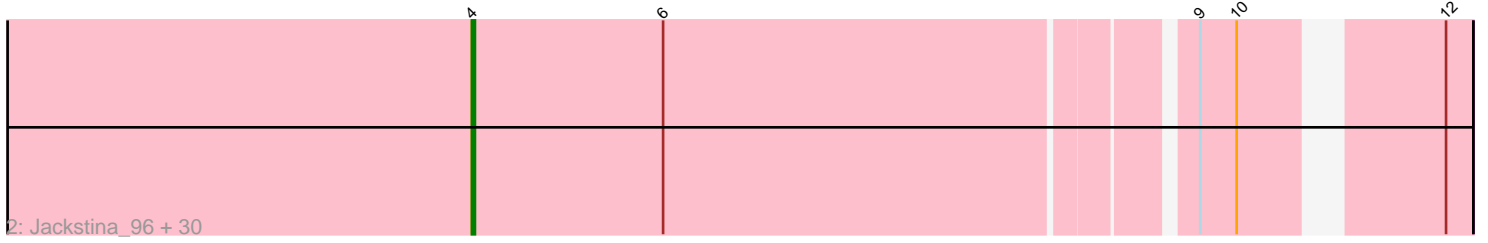
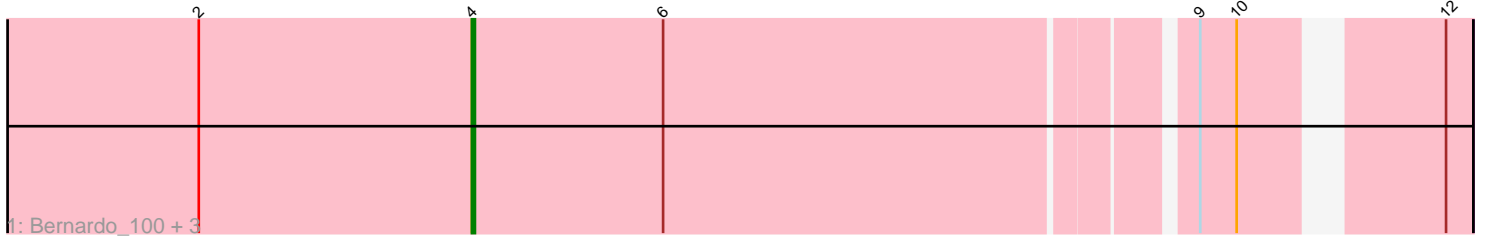


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 308677 Report

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

Pham number 308677 has 57 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Bernardo_100, Daisy_102, Athena_105, Yinz_101
- Track 2 : Jackstina_96, Kronus_102, Ben11_102, Phaedrus_98, Mortcellus_103, Chentzyk_104, SwainyDoc_102, Pipefish_102, Mulaychimus_103, Chalmers_103, MmasiCarm_104, Briakila_104, Casbah_102, Olivio_102, Marley1013_101, Glubnar_102, Tydolla_99, Devonte_101, Rita1961_104, LestyG_101, Deenasa_104, TinyTerror_103, GlenHope_104, Kamiyu_103, Abinghost_103, Marlia_103, Gervas_104, Philly_102, Obutu_104, Morty007_101, Yahalom_101
- Track 3 : Gadget_102, Heathcliff_103, Akoma_104, Phlyer_103, HarveySr_100, RagingRooster_103, Compostia_102, ChaChing_103, Phayeta_104, Nozo_103, RomaT_103, Neos5_102, OrangeOswald_102, SlippinJimmy_106, SynergyX_104, Shenandoah_103, Corofin_103
- Track 4 : Halfpint_102
- Track 5 : Audrey_103, Chandler_103, Baloo_102
- Track 6 : ScoobyDoobyDoo_46

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

The start number called the most often in the published annotations is 4, it was called in 48 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_103, Akoma_104, Athena_105, Ben11_102, Bernardo_100, Briakila_104, Casbah_102, ChaChing_103, Chalmers_103, Chentzyk_104, Compostia_102, Corofin_103, Daisy_102, Deenasa_104, Devonte_101, Gadget_102, Gervas_104, GlenHope_104, Glubnar_102, Halfpint_102, HarveySr_100, Heathcliff_103, Jackstina_96, Kamiyu_103, Kronus_102, LestyG_101, Marley1013_101, Marlia_103, MmasiCarm_104, Mortcellus_103, Morty007_101, Mulaychimus_103, Neos5_102, Nozo_103, Obutu_104, Olivio_102, OrangeOswald_102, Phaedrus_98, Phayeta_104, Philly_102, Phlyer_103, Pipefish_102, RagingRooster_103, Rita1961_104, RomaT_103, Shenandoah_103, SlippinJimmy_106, SwainyDoc_102, SynergyX_104, TinyTerror_103, Tydolla_99, Yahalom_101, Yinz_101,

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

- Audrey_103, Baloo_102, Chandler_103,

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

- ScoobyDoobyDoo_46,

Summary by start number:

Start 3:

- Found in 20 of 57 (35.1%) of genes in pham
- Manual Annotations of this start: 3 of 52
- Called 15.0% of time when present
- Phage (with cluster) where this start called: Audrey_103 (B3), Baloo_102 (B3), Chandler_103 (B3),

Start 4:

- Found in 56 of 57 (98.2%) of genes in pham
- Manual Annotations of this start: 48 of 52
- Called 94.6% of time when present
- Phage (with cluster) where this start called: Abinghost_103 (B3), Akoma_104 (B3), Athena_105 (B3), Ben11_102 (B3), Bernardo_100 (B3), Briakila_104 (B3), Casbah_102 (B3), ChaChing_103 (B3), Chalmers_103 (B3), Chentzyk_104 (B3), Compostia_102 (B3), Corofin_103 (B3), Daisy_102 (B3), Deenasa_104 (B3), Devonte_101 (B3), Gadget_102 (B3), Gervas_104 (B3), GlenHope_104 (B3), Glubnar_102 (B3), Halfpint_102 (B3), HarveySr_100 (B3), Heathcliff_103 (B3), Jackstina_96 (B3), Kamiyu_103 (B3), Kronus_102 (B3), LestyG_101 (B3), Marley1013_101 (B3), Marlia_103 (B3), MmasiCarm_104 (B3), Mortcellus_103 (B3), Morty007_101 (B3), Mulaychimus_103 (B3), Neos5_102 (B3), Nozo_103 (B3), Obutu_104 (B3), Olivio_102 (B3), OrangeOswald_102 (B3), Phaedrus_98 (B3), Phayeta_104 (B3), Philly_102 (B3), Phlyer_103 (B3), Pipefish_102 (B3), RagingRooster_103 (B3), Rita1961_104 (B3), RomaT_103 (B3), Shenandoah_103 (B3), SlippinJimmy_106 (B3), SwainyDoc_102 (B3), SynergyX_104 (B3), TinyTerror_103 (B3), Tydolla_99 (B3), Yahalom_101 (B3), Yinz_101 (B3),

Start 5:

- Found in 1 of 57 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ScoobyDoobyDoo_46 (C2),

Summary by clusters:

There are 2 clusters represented in this pham: C2, B3,

Info for manual annotations of cluster B3:

- Start number 3 was manually annotated 3 times for cluster B3.
- Start number 4 was manually annotated 48 times for cluster B3.

Info for manual annotations of cluster C2:

- Start number 5 was manually annotated 1 time for cluster C2.

Gene Information:

Gene: Abinghost_103 Start: 68283, Stop: 68585, Start Num: 4
Candidate Starts for Abinghost_103:
(Start: 4 @68283 has 48 MA's), (6, 68346), (9, 68511), (10, 68523), (12, 68577),

Gene: Akoma_104 Start: 68360, Stop: 68662, Start Num: 4
Candidate Starts for Akoma_104:
(Start: 3 @68318 has 3 MA's), (Start: 4 @68360 has 48 MA's), (6, 68423), (9, 68588), (10, 68600), (12, 68654),

Gene: Athena_105 Start: 69058, Stop: 69360, Start Num: 4
Candidate Starts for Athena_105:
(2, 68968), (Start: 4 @69058 has 48 MA's), (6, 69121), (9, 69286), (10, 69298), (12, 69352),

Gene: Audrey_103 Start: 68269, Stop: 68613, Start Num: 3
Candidate Starts for Audrey_103:
(Start: 3 @68269 has 3 MA's), (Start: 4 @68311 has 48 MA's), (6, 68374), (9, 68539), (10, 68551), (12, 68605),

Gene: Baloo_102 Start: 68121, Stop: 68465, Start Num: 3
Candidate Starts for Baloo_102:
(Start: 3 @68121 has 3 MA's), (Start: 4 @68163 has 48 MA's), (6, 68226), (9, 68391), (10, 68403), (12, 68457),

Gene: Ben11_102 Start: 68317, Stop: 68619, Start Num: 4
Candidate Starts for Ben11_102:
(Start: 4 @68317 has 48 MA's), (6, 68380), (9, 68545), (10, 68557), (12, 68611),

Gene: Bernardo_100 Start: 67845, Stop: 68147, Start Num: 4
Candidate Starts for Bernardo_100:
(2, 67755), (Start: 4 @67845 has 48 MA's), (6, 67908), (9, 68073), (10, 68085), (12, 68139),

Gene: Briakila_104 Start: 68815, Stop: 69117, Start Num: 4
Candidate Starts for Briakila_104:
(Start: 4 @68815 has 48 MA's), (6, 68878), (9, 69043), (10, 69055), (12, 69109),

Gene: Casbah_102 Start: 68403, Stop: 68705, Start Num: 4
Candidate Starts for Casbah_102:
(Start: 4 @68403 has 48 MA's), (6, 68466), (9, 68631), (10, 68643), (12, 68697),

Gene: ChaChing_103 Start: 68317, Stop: 68619, Start Num: 4
Candidate Starts for ChaChing_103:
(Start: 3 @68275 has 3 MA's), (Start: 4 @68317 has 48 MA's), (6, 68380), (9, 68545), (10, 68557), (12, 68611),

Gene: Chalmers_103 Start: 69056, Stop: 69358, Start Num: 4
Candidate Starts for Chalmers_103:
(Start: 4 @69056 has 48 MA's), (6, 69119), (9, 69284), (10, 69296), (12, 69350),

Gene: Chandler_103 Start: 69058, Stop: 69402, Start Num: 3
Candidate Starts for Chandler_103:
(Start: 3 @69058 has 3 MA's), (Start: 4 @69100 has 48 MA's), (6, 69163), (9, 69328), (10, 69340), (12, 69394),

Gene: Chentzyk_104 Start: 69032, Stop: 69334, Start Num: 4
Candidate Starts for Chentzyk_104:
(Start: 4 @69032 has 48 MA's), (6, 69095), (9, 69260), (10, 69272), (12, 69326),

Gene: Compostia_102 Start: 68778, Stop: 69080, Start Num: 4
Candidate Starts for Compostia_102:
(Start: 3 @68736 has 3 MA's), (Start: 4 @68778 has 48 MA's), (6, 68841), (9, 69006), (10, 69018), (12, 69072),

Gene: Corofin_103 Start: 68334, Stop: 68636, Start Num: 4
Candidate Starts for Corofin_103:
(Start: 3 @68292 has 3 MA's), (Start: 4 @68334 has 48 MA's), (6, 68397), (9, 68562), (10, 68574), (12, 68628),

Gene: Daisy_102 Start: 67894, Stop: 68196, Start Num: 4
Candidate Starts for Daisy_102:
(2, 67804), (Start: 4 @67894 has 48 MA's), (6, 67957), (9, 68122), (10, 68134), (12, 68188),

Gene: Deenasa_104 Start: 69537, Stop: 69839, Start Num: 4
Candidate Starts for Deenasa_104:
(Start: 4 @69537 has 48 MA's), (6, 69600), (9, 69765), (10, 69777), (12, 69831),

Gene: Devonte_101 Start: 67950, Stop: 68252, Start Num: 4
Candidate Starts for Devonte_101:
(Start: 4 @67950 has 48 MA's), (6, 68013), (9, 68178), (10, 68190), (12, 68244),

Gene: Gadget_102 Start: 67598, Stop: 67900, Start Num: 4
Candidate Starts for Gadget_102:
(Start: 3 @67556 has 3 MA's), (Start: 4 @67598 has 48 MA's), (6, 67661), (9, 67826), (10, 67838), (12, 67892),

Gene: Gervas_104 Start: 68779, Stop: 69081, Start Num: 4
Candidate Starts for Gervas_104:
(Start: 4 @68779 has 48 MA's), (6, 68842), (9, 69007), (10, 69019), (12, 69073),

Gene: GlenHope_104 Start: 68354, Stop: 68656, Start Num: 4
Candidate Starts for GlenHope_104:
(Start: 4 @68354 has 48 MA's), (6, 68417), (9, 68582), (10, 68594), (12, 68648),

Gene: Glubnar_102 Start: 68046, Stop: 68348, Start Num: 4
Candidate Starts for Glubnar_102:
(Start: 4 @68046 has 48 MA's), (6, 68109), (9, 68274), (10, 68286), (12, 68340),

Gene: Halfpint_102 Start: 68098, Stop: 68400, Start Num: 4
Candidate Starts for Halfpint_102:
(1, 67975), (Start: 4 @68098 has 48 MA's), (6, 68161), (9, 68326), (10, 68338), (12, 68392),

Gene: HarveySr_100 Start: 67422, Stop: 67724, Start Num: 4
Candidate Starts for HarveySr_100:
(Start: 3 @67380 has 3 MA's), (Start: 4 @67422 has 48 MA's), (6, 67485), (9, 67650), (10, 67662), (12, 67716),

Gene: Heathcliff_103 Start: 68277, Stop: 68579, Start Num: 4

Candidate Starts for Heathcliff_103:

(Start: 3 @68235 has 3 MA's), (Start: 4 @68277 has 48 MA's), (6, 68340), (9, 68505), (10, 68517), (12, 68571),

Gene: Jackstina_96 Start: 68195, Stop: 68497, Start Num: 4

Candidate Starts for Jackstina_96:

(Start: 4 @68195 has 48 MA's), (6, 68258), (9, 68423), (10, 68435), (12, 68489),

Gene: Kamiyu_103 Start: 68282, Stop: 68584, Start Num: 4

Candidate Starts for Kamiyu_103:

(Start: 4 @68282 has 48 MA's), (6, 68345), (9, 68510), (10, 68522), (12, 68576),

Gene: Kronus_102 Start: 69144, Stop: 69446, Start Num: 4

Candidate Starts for Kronus_102:

(Start: 4 @69144 has 48 MA's), (6, 69207), (9, 69372), (10, 69384), (12, 69438),

Gene: LestyG_101 Start: 67847, Stop: 68149, Start Num: 4

Candidate Starts for LestyG_101:

(Start: 4 @67847 has 48 MA's), (6, 67910), (9, 68075), (10, 68087), (12, 68141),

Gene: Marley1013_101 Start: 68813, Stop: 69115, Start Num: 4

Candidate Starts for Marley1013_101:

(Start: 4 @68813 has 48 MA's), (6, 68876), (9, 69041), (10, 69053), (12, 69107),

Gene: Marlia_103 Start: 68375, Stop: 68677, Start Num: 4

Candidate Starts for Marlia_103:

(Start: 4 @68375 has 48 MA's), (6, 68438), (9, 68603), (10, 68615), (12, 68669),

Gene: MmasiCarm_104 Start: 68720, Stop: 69022, Start Num: 4

Candidate Starts for MmasiCarm_104:

(Start: 4 @68720 has 48 MA's), (6, 68783), (9, 68948), (10, 68960), (12, 69014),

Gene: Mortcellus_103 Start: 69449, Stop: 69751, Start Num: 4

Candidate Starts for Mortcellus_103:

(Start: 4 @69449 has 48 MA's), (6, 69512), (9, 69677), (10, 69689), (12, 69743),

Gene: Morty007_101 Start: 69080, Stop: 69382, Start Num: 4

Candidate Starts for Morty007_101:

(Start: 4 @69080 has 48 MA's), (6, 69143), (9, 69308), (10, 69320), (12, 69374),

Gene: Mulaychimus_103 Start: 68665, Stop: 68967, Start Num: 4

Candidate Starts for Mulaychimus_103:

(Start: 4 @68665 has 48 MA's), (6, 68728), (9, 68893), (10, 68905), (12, 68959),

Gene: Neos5_102 Start: 68535, Stop: 68837, Start Num: 4

Candidate Starts for Neos5_102:

(Start: 3 @68493 has 3 MA's), (Start: 4 @68535 has 48 MA's), (6, 68598), (9, 68763), (10, 68775), (12, 68829),

Gene: Nozo_103 Start: 69088, Stop: 69390, Start Num: 4

Candidate Starts for Nozo_103:

(Start: 3 @69046 has 3 MA's), (Start: 4 @69088 has 48 MA's), (6, 69151), (9, 69316), (10, 69328), (12, 69382),

Gene: Obutu_104 Start: 68670, Stop: 68972, Start Num: 4

Candidate Starts for Obutu_104:

(Start: 4 @68670 has 48 MA's), (6, 68733), (9, 68898), (10, 68910), (12, 68964),

Gene: Olivio_102 Start: 68306, Stop: 68608, Start Num: 4

Candidate Starts for Olivio_102:

(Start: 4 @68306 has 48 MA's), (6, 68369), (9, 68534), (10, 68546), (12, 68600),

Gene: OrangeOswald_102 Start: 68323, Stop: 68625, Start Num: 4

Candidate Starts for OrangeOswald_102:

(Start: 3 @68281 has 3 MA's), (Start: 4 @68323 has 48 MA's), (6, 68386), (9, 68551), (10, 68563), (12, 68617),

Gene: Phaedrus_98 Start: 67739, Stop: 68041, Start Num: 4

Candidate Starts for Phaedrus_98:

(Start: 4 @67739 has 48 MA's), (6, 67802), (9, 67967), (10, 67979), (12, 68033),

Gene: Phayeta_104 Start: 68349, Stop: 68651, Start Num: 4

Candidate Starts for Phayeta_104:

(Start: 3 @68307 has 3 MA's), (Start: 4 @68349 has 48 MA's), (6, 68412), (9, 68577), (10, 68589), (12, 68643),

Gene: Philly_102 Start: 68172, Stop: 68474, Start Num: 4

Candidate Starts for Philly_102:

(Start: 4 @68172 has 48 MA's), (6, 68235), (9, 68400), (10, 68412), (12, 68466),

Gene: Phlyer_103 Start: 69027, Stop: 69329, Start Num: 4

Candidate Starts for Phlyer_103:

(Start: 3 @68985 has 3 MA's), (Start: 4 @69027 has 48 MA's), (6, 69090), (9, 69255), (10, 69267), (12, 69321),

Gene: Pipefish_102 Start: 68708, Stop: 69010, Start Num: 4

Candidate Starts for Pipefish_102:

(Start: 4 @68708 has 48 MA's), (6, 68771), (9, 68936), (10, 68948), (12, 69002),

Gene: RagingRooster_103 Start: 68319, Stop: 68621, Start Num: 4

Candidate Starts for RagingRooster_103:

(Start: 3 @68277 has 3 MA's), (Start: 4 @68319 has 48 MA's), (6, 68382), (9, 68547), (10, 68559), (12, 68613),

Gene: Rita1961_104 Start: 68675, Stop: 68977, Start Num: 4

Candidate Starts for Rita1961_104:

(Start: 4 @68675 has 48 MA's), (6, 68738), (9, 68903), (10, 68915), (12, 68969),

Gene: RomaT_103 Start: 68888, Stop: 69190, Start Num: 4

Candidate Starts for RomaT_103:

(Start: 3 @68846 has 3 MA's), (Start: 4 @68888 has 48 MA's), (6, 68951), (9, 69116), (10, 69128), (12, 69182),

Gene: ScoobyDoobyDoo_46 Start: 16776, Stop: 17078, Start Num: 5

Candidate Starts for ScoobyDoobyDoo_46:

(Start: 5 @16776 has 1 MA's), (7, 16971), (8, 16986), (11, 17025),

Gene: Shenandoah_103 Start: 68239, Stop: 68541, Start Num: 4
Candidate Starts for Shenandoah_103:
(Start: 3 @68197 has 3 MA's), (Start: 4 @68239 has 48 MA's), (6, 68302), (9, 68467), (10, 68479), (12, 68533),

Gene: SlippinJimmy_106 Start: 69687, Stop: 69989, Start Num: 4
Candidate Starts for SlippinJimmy_106:
(Start: 3 @69645 has 3 MA's), (Start: 4 @69687 has 48 MA's), (6, 69750), (9, 69915), (10, 69927), (12, 69981),

Gene: SwainyDoc_102 Start: 68530, Stop: 68832, Start Num: 4
Candidate Starts for SwainyDoc_102:
(Start: 4 @68530 has 48 MA's), (6, 68593), (9, 68758), (10, 68770), (12, 68824),

Gene: SynergyX_104 Start: 68629, Stop: 68931, Start Num: 4
Candidate Starts for SynergyX_104:
(Start: 3 @68587 has 3 MA's), (Start: 4 @68629 has 48 MA's), (6, 68692), (9, 68857), (10, 68869), (12, 68923),

Gene: TinyTerror_103 Start: 68528, Stop: 68830, Start Num: 4
Candidate Starts for TinyTerror_103:
(Start: 4 @68528 has 48 MA's), (6, 68591), (9, 68756), (10, 68768), (12, 68822),

Gene: Tydolla_99 Start: 68306, Stop: 68608, Start Num: 4
Candidate Starts for Tydolla_99:
(Start: 4 @68306 has 48 MA's), (6, 68369), (9, 68534), (10, 68546), (12, 68600),

Gene: Yahalom_101 Start: 68131, Stop: 68433, Start Num: 4
Candidate Starts for Yahalom_101:
(Start: 4 @68131 has 48 MA's), (6, 68194), (9, 68359), (10, 68371), (12, 68425),

Gene: Yinz_101 Start: 67742, Stop: 68044, Start Num: 4
Candidate Starts for Yinz_101:
(2, 67652), (Start: 4 @67742 has 48 MA's), (6, 67805), (9, 67970), (10, 67982), (12, 68036),