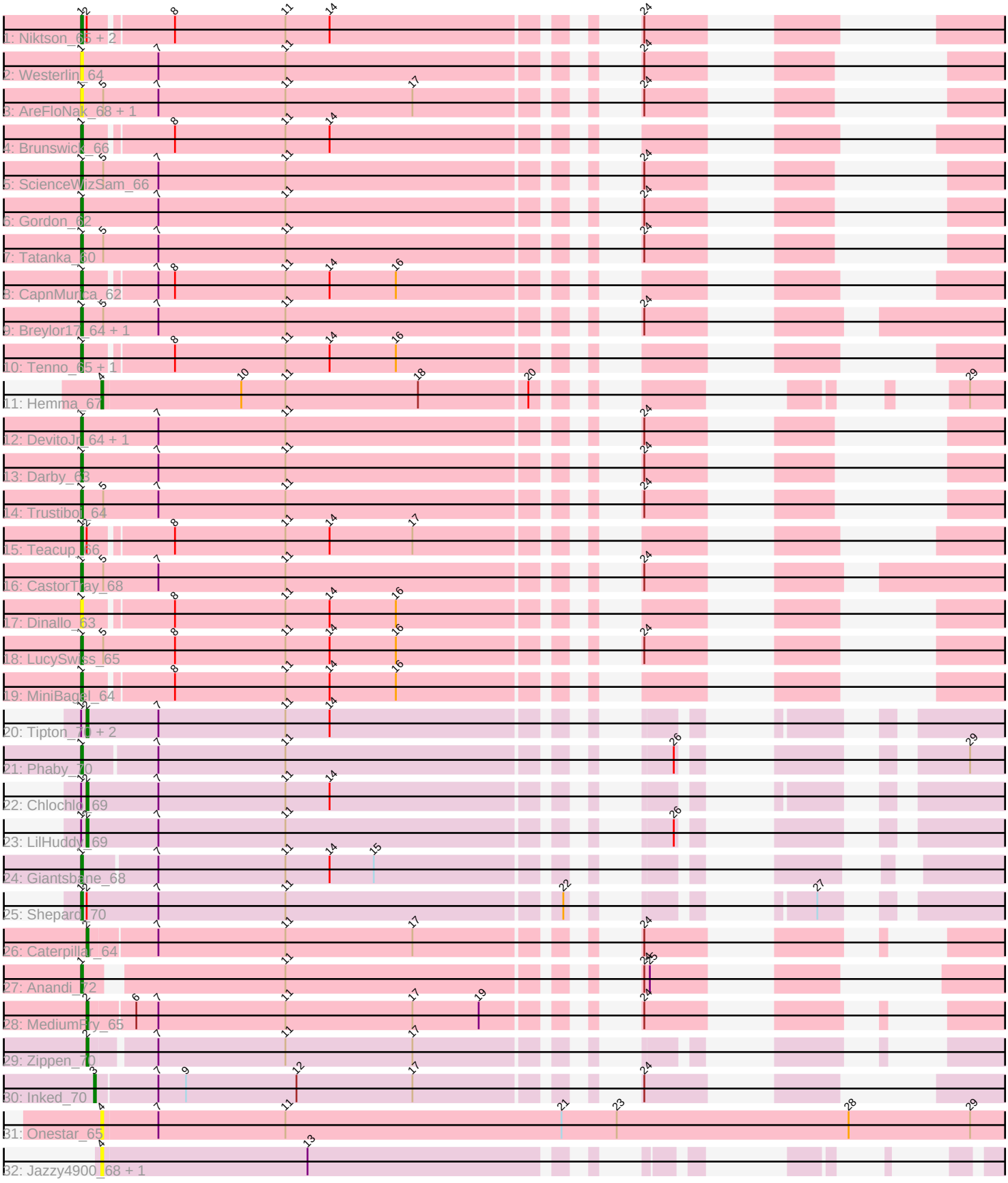
Zoomed Pham 347784



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 347784 Report

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

Pham number 347784 has 41 members, 7 are drafts.

Phages represented in each track:
- Track 1 : Niktson_65, ElephantMan_65, Acai_65
- Track 2 : Westerlin_64
- Track 3 : AreFloNak_68, Nivinsha_68
- Track 4 : Brunswick_66
- Track 5 : ScienceWizSam_66
- Track 6 : Gordon_62
- Track 7 : Tatanka_60
- Track 8 : CapnMurica_62
- Track 9 : Breylor17_64, Nightmare_66
- Track 10 : Tenno_65, Issa_63
- Track 11 : Hemma_67
- Track 12 : DevitoJr_64, Synepsis_63
- Track 13 : Darby_63
- Track 14 : Trustiboi_64
- Track 15 : Teacup_66
- Track 16 : CastorTray_68
- Track 17 : Dinallo_63
- Track 18 : LucySwiss_65
- Track 19 : MiniBagel_64
- Track 20 : Tipton_70, Bouchard_69, Tokki_74
- Track 21 : Phaby_70
- Track 22 : Chlochlo_69
- Track 23 : LilHuddy_69
- Track 24 : Giantsbane_68
- Track 25 : Shepard_70
- Track 26 : Caterpillar_64
- Track 27 : Anandi_72
- Track 28 : MediumFry_65
- Track 29 : Zippen_70
- Track 30 : Inked_70
- Track 31 : Onestar_65
- Track 32 : Jazzy4900_68, Sunny4976_67

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

The start number called the most often in the published annotations is 1, it was called in 24 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acai_65, Anandi_72, AreFloNak_68, Breylor17_64, Brunswick_66, CapnMurica_62, CastorTray_68, Darby_63, DevitoJr_64, Dinallo_63, ElephantMan_65, Giantsbane_68, Gordon_62, Issa_63, LucySwiss_65, MiniBagel_64, Nightmare_66, Niktson_65, Nivinsha_68, Phaby_70, ScienceWizSam_66, Shepard_70, Synepsis_63, Tatanka_60, Teacup_66, Tenno_65, Trustiboi_64, Westerlin_64,

Genes that have the "Most Annotated" start but do not call it:
• Bouchard_69, Chlochlo_69, LilHuddy_69, Tipton_70, Tokki_74,

Genes that do not have the "Most Annotated" start:
• Caterpillar_64, Hemma_67, Inked_70, Jazzy4900_68, MediumFry_65, Onestar_65, Sunny4976_67, Zippen_70,

Summary by start number:

Start 1:
• Found in 33 of 41 (80.5%) of genes in pham
• Manual Annotations of this start: 24 of 34
• Called 84.8% of time when present
• Phage (with cluster) where this start called: Acai_65 (AU1), Anandi_72 (AU4), AreFloNak_68 (AU1), Breylor17_64 (AU1), Brunswick_66 (AU1), CapnMurica_62 (AU1), CastorTray_68 (AU1), Darby_63 (AU1), DevitoJr_64 (AU1), Dinallo_63 (AU1), ElephantMan_65 (AU1), Giantsbane_68 (AU2), Gordon_62 (AU1), Issa_63 (AU1), LucySwiss_65 (AU1), MiniBagel_64 (AU1), Nightmare_66 (AU1), Niktson_65 (AU1), Nivinsha_68 (AU1), Phaby_70 (AU2), ScienceWizSam_66 (AU1), Shepard_70 (AU2), Synepsis_63 (AU1), Tatanka_60 (AU1), Teacup_66 (AU1), Tenno_65 (AU1), Trustiboi_64 (AU1), Westerlin_64 (AU1),

Start 2:
• Found in 13 of 41 (31.7%) of genes in pham
• Manual Annotations of this start: 8 of 34
• Called 61.5% of time when present
• Phage (with cluster) where this start called: Bouchard_69 (AU2), Caterpillar_64 (AU4), Chlochlo_69 (AU2), LilHuddy_69 (AU2), MediumFry_65 (AU4), Tipton_70 (AU2), Tokki_74 (AU2), Zippen_70 (AU7),

Start 3:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Inked_70 (AU7),

Start 4:
• Found in 4 of 41 (9.8%) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hemma_67 (AU1), Jazzy4900_68 (FI), Onestar_65 (AW), Sunny4976_67 (FI),

Summary by clusters:

There are 6 clusters represented in this pham: AW, AU1, AU2, AU4, AU7, FI,

Info for manual annotations of cluster AU1:
•Start number 1 was manually annotated 20 times for cluster AU1.
•Start number 4 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 1 was manually annotated 3 times for cluster AU2.
•Start number 2 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU4:
•Start number 1 was manually annotated 1 time for cluster AU4.
•Start number 2 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU7:
•Start number 2 was manually annotated 1 time for cluster AU7.
•Start number 3 was manually annotated 1 time for cluster AU7.

Gene Information:

Gene: Acai_65 Start: 45068, Stop: 45805, Start Num: 1
Candidate Starts for Acai_65:
(Start: 1 @45068 has 24 MA's), (Start: 2 @45071 has 8 MA's), (8, 45113), (11, 45173), (14, 45197), (24, 45323), (32, 45482), (35, 45542), (36, 45545), (40, 45572), (42, 45623), (45, 45647), (56, 45773),

Gene: Anandi_72 Start: 45579, Stop: 46286, Start Num: 1
Candidate Starts for Anandi_72:
(Start: 1 @45579 has 24 MA's), (11, 45678), (24, 45828), (25, 45831), (45, 46146), (53, 46230),

Gene: AreFloNak_68 Start: 45124, Stop: 45852, Start Num: 1
Candidate Starts for AreFloNak_68:
(Start: 1 @45124 has 24 MA's), (5, 45136), (7, 45166), (11, 45235), (17, 45304), (24, 45385), (31, 45514), (32, 45535), (35, 45595), (45, 45697), (50, 45760),

Gene: Bouchard_69 Start: 45738, Stop: 46451, Start Num: 2
Candidate Starts for Bouchard_69:
(Start: 1 @45735 has 24 MA's), (Start: 2 @45738 has 8 MA's), (7, 45777), (11, 45846), (14, 45870), (30, 46125), (45, 46305),

Gene: Breylor17_64 Start: 45466, Stop: 46245, Start Num: 1
Candidate Starts for Breylor17_64:
(Start: 1 @45466 has 24 MA's), (5, 45478), (7, 45508), (11, 45577), (24, 45727), (32, 45919), (36, 45982), (56, 46213),

Gene: Brunswick_66 Start: 44911, Stop: 45648, Start Num: 1
Candidate Starts for Brunswick_66:

(Start: 1 @44911 has 24 MA's), (8, 44956), (11, 45016), (14, 45040), (32, 45325), (36, 45388), (37, 45397), (45, 45490),

Gene: CapnMurica_62 Start: 45652, Stop: 46386, Start Num: 1
Candidate Starts for CapnMurica_62:
(Start: 1 @45652 has 24 MA's), (7, 45688), (8, 45697), (11, 45757), (14, 45781), (16, 45817), (32, 46066), (35, 46126), (36, 46129), (42, 46207), (56, 46354),

Gene: CastorTray_68 Start: 45655, Stop: 46434, Start Num: 1
Candidate Starts for CastorTray_68:
(Start: 1 @45655 has 24 MA's), (5, 45667), (7, 45697), (11, 45766), (24, 45916), (32, 46108), (36, 46171),

Gene: Caterpillar_64 Start: 44546, Stop: 45283, Start Num: 2
Candidate Starts for Caterpillar_64:
(Start: 2 @44546 has 8 MA's), (7, 44582), (11, 44651), (17, 44720), (24, 44801), (41, 45083), (43, 45101), (45, 45122), (46, 45149),

Gene: Chlochlo_69 Start: 45265, Stop: 45984, Start Num: 2
Candidate Starts for Chlochlo_69:
(Start: 1 @45262 has 24 MA's), (Start: 2 @45265 has 8 MA's), (7, 45304), (11, 45373), (14, 45397), (30, 45652), (45, 45832), (56, 45952),

Gene: Darby_63 Start: 44701, Stop: 45429, Start Num: 1
Candidate Starts for Darby_63:
(Start: 1 @44701 has 24 MA's), (7, 44743), (11, 44812), (24, 44962), (32, 45112), (40, 45202), (50, 45337),

Gene: DevitoJr_64 Start: 45087, Stop: 45815, Start Num: 1
Candidate Starts for DevitoJr_64:
(Start: 1 @45087 has 24 MA's), (7, 45129), (11, 45198), (24, 45348), (31, 45477), (32, 45498), (35, 45558), (45, 45660), (50, 45723),

Gene: Dinallo_63 Start: 45962, Stop: 46699, Start Num: 1
Candidate Starts for Dinallo_63:
(Start: 1 @45962 has 24 MA's), (8, 46007), (11, 46067), (14, 46091), (16, 46127), (32, 46376), (35, 46436), (36, 46439), (42, 46517),

Gene: ElephantMan_65 Start: 45541, Stop: 46278, Start Num: 1
Candidate Starts for ElephantMan_65:
(Start: 1 @45541 has 24 MA's), (Start: 2 @45544 has 8 MA's), (8, 45586), (11, 45646), (14, 45670), (24, 45796), (32, 45955), (35, 46015), (36, 46018), (40, 46045), (42, 46096), (45, 46120), (56, 46246),

Gene: Giantsbane_68 Start: 44242, Stop: 44979, Start Num: 1
Candidate Starts for Giantsbane_68:
(Start: 1 @44242 has 24 MA's), (7, 44281), (11, 44350), (14, 44374), (15, 44398), (44, 44806), (48, 44872), (56, 44953),

Gene: Gordon_62 Start: 45579, Stop: 46307, Start Num: 1
Candidate Starts for Gordon_62:
(Start: 1 @45579 has 24 MA's), (7, 45621), (11, 45690), (24, 45840), (32, 45990), (40, 46080), (45, 46152), (50, 46215),

Gene: Hemma_67 Start: 42764, Stop: 43462, Start Num: 4
Candidate Starts for Hemma_67:
(Start: 4 @42764 has 1 MA's), (10, 42839), (11, 42863), (18, 42935), (20, 42992), (29, 43085), (31, 43136), (33, 43202), (34, 43211), (37, 43229), (38, 43232), (46, 43346), (55, 43433),

Gene: Inked_70 Start: 46130, Stop: 46858, Start Num: 3
Candidate Starts for Inked_70:
(Start: 3 @46130 has 1 MA's), (7, 46163), (9, 46178), (12, 46238), (17, 46301), (24, 46382), (35, 46601), (36, 46604), (45, 46703), (51, 46790), (56, 46826),

Gene: Issa_63 Start: 44747, Stop: 45481, Start Num: 1
Candidate Starts for Issa_63:
(Start: 1 @44747 has 24 MA's), (8, 44792), (11, 44852), (14, 44876), (16, 44912), (32, 45161), (35, 45221), (36, 45224), (42, 45302), (56, 45449),

Gene: Jazzy4900_68 Start: 45796, Stop: 46485, Start Num: 4
Candidate Starts for Jazzy4900_68:
(Start: 4 @45796 has 1 MA's), (13, 45907), (33, 46219), (34, 46228), (37, 46246), (38, 46249), (39, 46258), (43, 46315), (49, 46396),

Gene: LilHuddy_69 Start: 45361, Stop: 46110, Start Num: 2
Candidate Starts for LilHuddy_69:
(Start: 1 @45358 has 24 MA's), (Start: 2 @45361 has 8 MA's), (7, 45400), (11, 45469), (26, 45634), (32, 45790), (34, 45844), (36, 45853), (44, 45931), (48, 45997),

Gene: LucySwiss_65 Start: 44692, Stop: 45423, Start Num: 1
Candidate Starts for LucySwiss_65:
(Start: 1 @44692 has 24 MA's), (5, 44704), (8, 44743), (11, 44803), (14, 44827), (16, 44863), (24, 44953), (47, 45310), (52, 45358), (54, 45373),

Gene: MediumFry_65 Start: 44842, Stop: 45561, Start Num: 2
Candidate Starts for MediumFry_65:
(Start: 2 @44842 has 8 MA's), (6, 44866), (7, 44878), (11, 44947), (17, 45016), (19, 45052), (24, 45097), (32, 45256), (36, 45319), (38, 45331),

Gene: MiniBagel_64 Start: 45643, Stop: 46377, Start Num: 1
Candidate Starts for MiniBagel_64:
(Start: 1 @45643 has 24 MA's), (8, 45688), (11, 45748), (14, 45772), (16, 45808), (32, 46057), (36, 46120), (42, 46198), (56, 46345),

Gene: Nightmare_66 Start: 45941, Stop: 46720, Start Num: 1
Candidate Starts for Nightmare_66:
(Start: 1 @45941 has 24 MA's), (5, 45953), (7, 45983), (11, 46052), (24, 46202), (32, 46394), (36, 46457), (56, 46688),

Gene: Niktson_65 Start: 45541, Stop: 46278, Start Num: 1
Candidate Starts for Niktson_65:
(Start: 1 @45541 has 24 MA's), (Start: 2 @45544 has 8 MA's), (8, 45586), (11, 45646), (14, 45670), (24, 45796), (32, 45955), (35, 46015), (36, 46018), (40, 46045), (42, 46096), (45, 46120), (56, 46246),

Gene: Nivinsha_68 Start: 45124, Stop: 45852, Start Num: 1
Candidate Starts for Nivinsha_68:

(Start: 1 @45124 has 24 MA's), (5, 45136), (7, 45166), (11, 45235), (17, 45304), (24, 45385), (31, 45514), (32, 45535), (35, 45595), (45, 45697), (50, 45760),

Gene: Onestar_65 Start: 42874, Stop: 43788, Start Num: 4
Candidate Starts for Onestar_65:
(Start: 4 @42874 has 1 MA's), (7, 42904), (11, 42973), (21, 43123), (23, 43153), (28, 43279), (29, 43345), (36, 43480), (43, 43558), (57, 43720),

Gene: Phaby_70 Start: 45919, Stop: 46635, Start Num: 1
Candidate Starts for Phaby_70:
(Start: 1 @45919 has 24 MA's), (7, 45958), (11, 46027), (26, 46192), (29, 46276), (30, 46309), (32, 46348), (40, 46438), (45, 46489),

Gene: ScienceWizSam_66 Start: 45286, Stop: 46014, Start Num: 1
Candidate Starts for ScienceWizSam_66:
(Start: 1 @45286 has 24 MA's), (5, 45298), (7, 45328), (11, 45397), (24, 45547), (31, 45676), (32, 45697), (35, 45757), (45, 45859),

Gene: Shepard_70 Start: 45217, Stop: 45960, Start Num: 1
Candidate Starts for Shepard_70:
(Start: 1 @45217 has 24 MA's), (Start: 2 @45220 has 8 MA's), (7, 45259), (11, 45328), (22, 45469), (27, 45523), (34, 45700), (36, 45709), (41, 45769), (48, 45853),

Gene: Sunny4976_67 Start: 45796, Stop: 46485, Start Num: 4
Candidate Starts for Sunny4976_67:
(Start: 4 @45796 has 1 MA's), (13, 45907), (33, 46219), (34, 46228), (37, 46246), (38, 46249), (39, 46258), (43, 46315), (49, 46396),

Gene: Synepsis_63 Start: 45054, Stop: 45782, Start Num: 1
Candidate Starts for Synepsis_63:
(Start: 1 @45054 has 24 MA's), (7, 45096), (11, 45165), (24, 45315), (31, 45444), (32, 45465), (35, 45525), (45, 45627), (50, 45690),

Gene: Tatanka_60 Start: 45190, Stop: 45918, Start Num: 1
Candidate Starts for Tatanka_60:
(Start: 1 @45190 has 24 MA's), (5, 45202), (7, 45232), (11, 45301), (24, 45451), (32, 45601), (45, 45763), (50, 45826),

Gene: Teacup_66 Start: 45620, Stop: 46357, Start Num: 1
Candidate Starts for Teacup_66:
(Start: 1 @45620 has 24 MA's), (Start: 2 @45623 has 8 MA's), (8, 45665), (11, 45725), (14, 45749), (17, 45794), (32, 46034), (35, 46094), (36, 46097), (40, 46124), (42, 46175), (45, 46199),

Gene: Tenno_65 Start: 45707, Stop: 46441, Start Num: 1
Candidate Starts for Tenno_65:
(Start: 1 @45707 has 24 MA's), (8, 45752), (11, 45812), (14, 45836), (16, 45872), (32, 46121), (35, 46181), (36, 46184), (42, 46262), (56, 46409),

Gene: Tipton_70 Start: 45759, Stop: 46472, Start Num: 2
Candidate Starts for Tipton_70:
(Start: 1 @45756 has 24 MA's), (Start: 2 @45759 has 8 MA's), (7, 45798), (11, 45867), (14, 45891), (30, 46146), (45, 46326),

Gene: Tokki_74 Start: 45790, Stop: 46503, Start Num: 2
Candidate Starts for Tokki_74:
(Start: 1 @45787 has 24 MA's), (Start: 2 @45790 has 8 MA's), (7, 45829), (11, 45898), (14, 45922), (30, 46177), (45, 46357),

Gene: Trustiboi_64 Start: 45309, Stop: 46037, Start Num: 1
Candidate Starts for Trustiboi_64:
(Start: 1 @45309 has 24 MA's), (5, 45321), (7, 45351), (11, 45420), (24, 45570), (31, 45699), (32, 45720), (35, 45780), (45, 45882), (50, 45945),

Gene: Westerlin_64 Start: 46398, Stop: 47126, Start Num: 1
Candidate Starts for Westerlin_64:
(Start: 1 @46398 has 24 MA's), (7, 46440), (11, 46509), (24, 46659), (31, 46788), (35, 46869), (40, 46899), (50, 47034),

Gene: Zippen_70 Start: 46004, Stop: 46729, Start Num: 2
Candidate Starts for Zippen_70:
(Start: 2 @46004 has 8 MA's), (7, 46037), (11, 46106), (17, 46175), (35, 46466), (36, 46469), (43, 46547), (45, 46568), (46, 46595), (56, 46697),