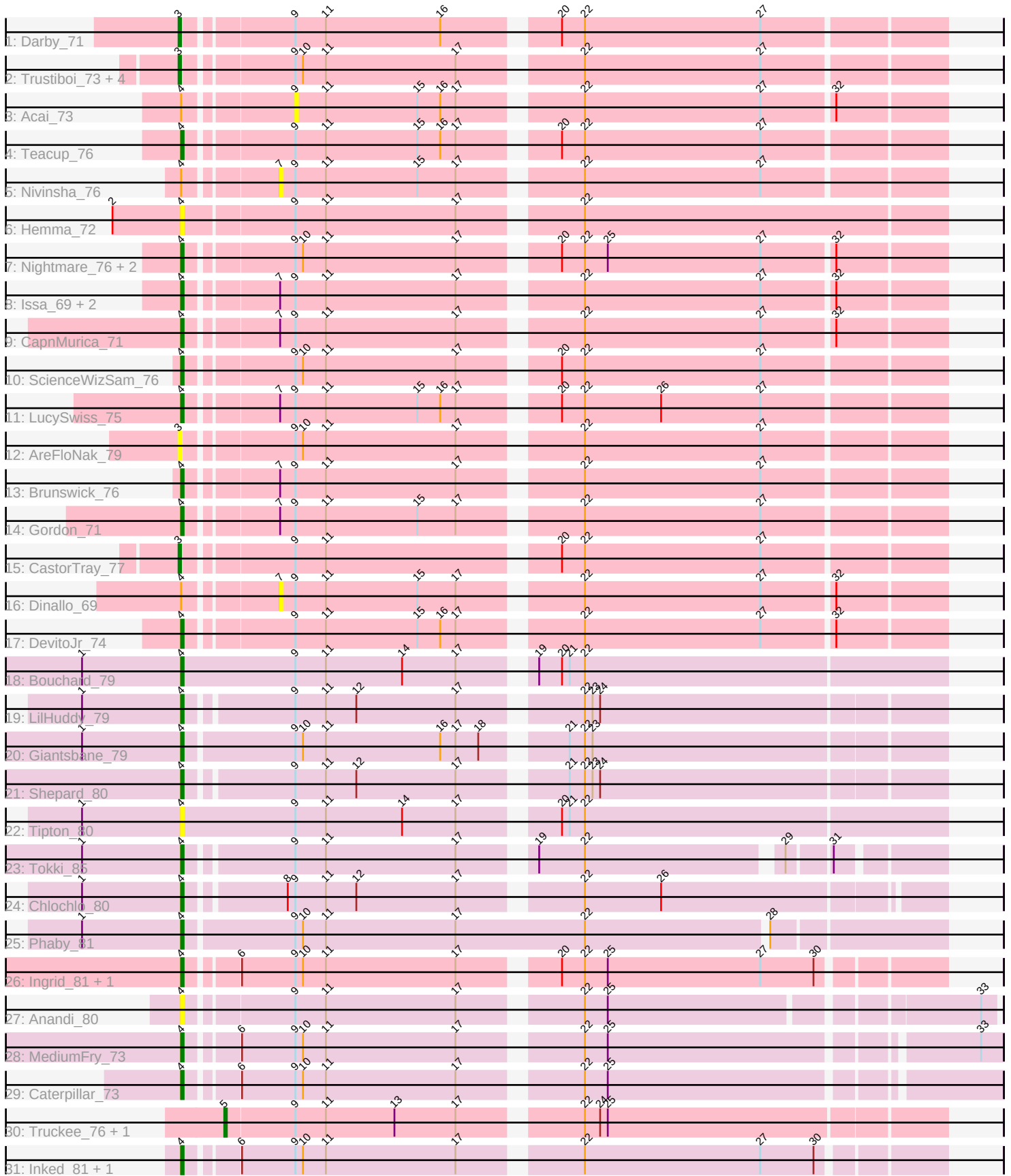


Pham 278356



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 278356 Report

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

Pham number 278356 has 42 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Darby_71
- Track 2 : Trustiboi_73, Synepsis_70, Breylor17_71, Westerlin_72, Tatanka_69
- Track 3 : Acai_73
- Track 4 : Teacup_76
- Track 5 : Nivinsha_76
- Track 6 : Hemma_72
- Track 7 : Nightmare_76, Niktson_75, ElephantMan_75
- Track 8 : Issa_69, MiniBagel_75, Tenno_74
- Track 9 : CapnMurica_71
- Track 10 : ScienceWizSam_76
- Track 11 : LucySwiss_75
- Track 12 : AreFloNak_79
- Track 13 : Brunswick_76
- Track 14 : Gordon_71
- Track 15 : CastorTray_77
- Track 16 : Dinallo_69
- Track 17 : DevitoJr_74
- Track 18 : Bouchard_79
- Track 19 : LilHuddy_79
- Track 20 : Giantsbane_79
- Track 21 : Shepard_80
- Track 22 : Tipton_80
- Track 23 : Tokki_85
- Track 24 : Chlochlo_80
- Track 25 : Phaby_81
- Track 26 : Ingrid_81, Loretta_77
- Track 27 : Anandi_80
- Track 28 : MediumFry_73
- Track 29 : Caterpillar_73
- Track 30 : Truckee_76, Makai_78
- Track 31 : Inked_81, Zippen_81

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 26 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anandi_80, Bouchard_79, Brunswick_76, CapnMurica_71, Caterpillar_73, Chlocho_80, DevitoJr_74, ElephantMan_75, Giantsbane_79, Gordon_71, Hemma_72, Ingrid_81, Inked_81, Issa_69, LilHuddy_79, Loretta_77, LucySwiss_75, MediumFry_73, MiniBagel_75, Nightmare_76, Niktson_75, Phaby_81, ScienceWizSam_76, Shepard_80, Teacup_76, Tenno_74, Tipton_80, Tokki_85, Zippen_81,

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

- Acai_73, Dinallo_69, Nivinsha_76,

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

- AreFloNak_79, Breylor17_71, CastorTray_77, Darby_71, Makai_78, Synopsis_70, Tatanka_69, Truckee_76, Trustiboi_73, Westerlin_72,

Summary by start number:

Start 3:

- Found in 8 of 42 (19.0%) of genes in pham
- Manual Annotations of this start: 6 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AreFloNak_79 (AU1), Breylor17_71 (AU1), CastorTray_77 (AU1), Darby_71 (AU1), Synopsis_70 (AU1), Tatanka_69 (AU1), Trustiboi_73 (AU1), Westerlin_72 (AU1),

Start 4:

- Found in 32 of 42 (76.2%) of genes in pham
- Manual Annotations of this start: 26 of 34
- Called 90.6% of time when present
- Phage (with cluster) where this start called: Anandi_80 (AU4), Bouchard_79 (AU2), Brunswick_76 (AU1), CapnMurica_71 (AU1), Caterpillar_73 (AU4), Chlocho_80 (AU2), DevitoJr_74 (AU1), ElephantMan_75 (AU1), Giantsbane_79 (AU2), Gordon_71 (AU1), Hemma_72 (AU1), Ingrid_81 (AU3), Inked_81 (AU7), Issa_69 (AU1), LilHuddy_79 (AU2), Loretta_77 (AU3), LucySwiss_75 (AU1), MediumFry_73 (AU4), MiniBagel_75 (AU1), Nightmare_76 (AU1), Niktson_75 (AU1), Phaby_81 (AU2), ScienceWizSam_76 (AU1), Shepard_80 (AU2), Teacup_76 (AU1), Tenno_74 (AU1), Tipton_80 (AU2), Tokki_85 (AU2), Zippen_81 (AU7),

Start 5:

- Found in 2 of 42 (4.8%) of genes in pham
- Manual Annotations of this start: 2 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Makai_78 (AU5), Truckee_76 (AU5),

Start 7:

- Found in 9 of 42 (21.4%) of genes in pham
- No Manual Annotations of this start.
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Dinallo_69 (AU1), Nivinsha_76 (AU1),

Start 9:

- Found in 42 of 42 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Acai_73 (AU1),

Summary by clusters:

There are 6 clusters represented in this pham: AU1, AU3, AU2, AU5, AU4, AU7,

Info for manual annotations of cluster AU1:

- Start number 3 was manually annotated 6 times for cluster AU1.
- Start number 4 was manually annotated 13 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 4 was manually annotated 7 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 4 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 4 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 5 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:

- Start number 4 was manually annotated 2 times for cluster AU7.

Gene Information:

Gene: Acai_73 Start: 49935, Stop: 50177, Start Num: 9

Candidate Starts for Acai_73:

(Start: 4 @49896 has 26 MA's), (9, 49935), (11, 49947), (15, 49983), (16, 49992), (17, 49998), (22, 50040), (27, 50109), (32, 50136),

Gene: Anandi_80 Start: 50396, Stop: 50689, Start Num: 4

Candidate Starts for Anandi_80:

(Start: 4 @50396 has 26 MA's), (9, 50435), (11, 50447), (17, 50498), (22, 50540), (25, 50549), (33, 50684),

Gene: AreFloNak_79 Start: 49764, Stop: 50045, Start Num: 3

Candidate Starts for AreFloNak_79:

(Start: 3 @49764 has 6 MA's), (9, 49803), (10, 49806), (11, 49815), (17, 49866), (22, 49908), (27, 49977),

Gene: Bouchard_79 Start: 50245, Stop: 50535, Start Num: 4

Candidate Starts for Bouchard_79:

(1, 50206), (Start: 4 @50245 has 26 MA's), (9, 50290), (11, 50302), (14, 50332), (17, 50353), (19, 50377), (20, 50386), (21, 50389), (22, 50395),

Gene: Breylor17_71 Start: 50154, Stop: 50435, Start Num: 3
Candidate Starts for Breylor17_71:
(Start: 3 @50154 has 6 MA's), (9, 50193), (10, 50196), (11, 50205), (17, 50256), (22, 50298), (27, 50367),

Gene: Brunswick_76 Start: 49891, Stop: 50172, Start Num: 4
Candidate Starts for Brunswick_76:
(Start: 4 @49891 has 26 MA's), (7, 49924), (9, 49930), (11, 49942), (17, 49993), (22, 50035), (27, 50104),

Gene: CapnMurica_71 Start: 50221, Stop: 50502, Start Num: 4
Candidate Starts for CapnMurica_71:
(Start: 4 @50221 has 26 MA's), (7, 50254), (9, 50260), (11, 50272), (17, 50323), (22, 50365), (27, 50434), (32, 50461),

Gene: CastorTray_77 Start: 50282, Stop: 50563, Start Num: 3
Candidate Starts for CastorTray_77:
(Start: 3 @50282 has 6 MA's), (9, 50321), (11, 50333), (20, 50417), (22, 50426), (27, 50495),

Gene: Caterpillar_73 Start: 48920, Stop: 49216, Start Num: 4
Candidate Starts for Caterpillar_73:
(Start: 4 @48920 has 26 MA's), (6, 48938), (9, 48959), (10, 48962), (11, 48971), (17, 49022), (22, 49064), (25, 49073),

Gene: Chlochlo_80 Start: 49778, Stop: 50056, Start Num: 4
Candidate Starts for Chlochlo_80:
(1, 49739), (Start: 4 @49778 has 26 MA's), (8, 49814), (9, 49817), (11, 49829), (12, 49841), (17, 49880), (22, 49922), (26, 49952),

Gene: Darby_71 Start: 49328, Stop: 49609, Start Num: 3
Candidate Starts for Darby_71:
(Start: 3 @49328 has 6 MA's), (9, 49367), (11, 49379), (16, 49424), (20, 49463), (22, 49472), (27, 49541),

Gene: DevitoJr_74 Start: 49710, Stop: 49991, Start Num: 4
Candidate Starts for DevitoJr_74:
(Start: 4 @49710 has 26 MA's), (9, 49749), (11, 49761), (15, 49797), (16, 49806), (17, 49812), (22, 49854), (27, 49923), (32, 49950),

Gene: Dinallo_69 Start: 50500, Stop: 50748, Start Num: 7
Candidate Starts for Dinallo_69:
(Start: 4 @50467 has 26 MA's), (7, 50500), (9, 50506), (11, 50518), (15, 50554), (17, 50569), (22, 50611), (27, 50680), (32, 50707),

Gene: ElephantMan_75 Start: 50484, Stop: 50765, Start Num: 4
Candidate Starts for ElephantMan_75:
(Start: 4 @50484 has 26 MA's), (9, 50523), (10, 50526), (11, 50535), (17, 50586), (20, 50619), (22, 50628), (25, 50637), (27, 50697), (32, 50724),

Gene: Giantsbane_79 Start: 48817, Stop: 49101, Start Num: 4
Candidate Starts for Giantsbane_79:
(1, 48778), (Start: 4 @48817 has 26 MA's), (9, 48859), (10, 48862), (11, 48871), (16, 48916), (17, 48922), (18, 48931), (21, 48958), (22, 48964), (23, 48967),

Gene: Gordon_71 Start: 50124, Stop: 50405, Start Num: 4

Candidate Starts for Gordon_71:

(Start: 4 @50124 has 26 MA's), (7, 50157), (9, 50163), (11, 50175), (15, 50211), (17, 50226), (22, 50268), (27, 50337),

Gene: Hemma_72 Start: 47518, Stop: 47805, Start Num: 4

Candidate Starts for Hemma_72:

(2, 47491), (Start: 4 @47518 has 26 MA's), (9, 47560), (11, 47572), (17, 47623), (22, 47665),

Gene: Ingrid_81 Start: 50079, Stop: 50357, Start Num: 4

Candidate Starts for Ingrid_81:

(Start: 4 @50079 has 26 MA's), (6, 50097), (9, 50118), (10, 50121), (11, 50130), (17, 50181), (20, 50214), (22, 50223), (25, 50232), (27, 50292), (30, 50313),

Gene: Inked_81 Start: 50798, Stop: 51076, Start Num: 4

Candidate Starts for Inked_81:

(Start: 4 @50798 has 26 MA's), (6, 50816), (9, 50837), (10, 50840), (11, 50849), (17, 50900), (22, 50942), (27, 51011), (30, 51032),

Gene: Issa_69 Start: 49292, Stop: 49573, Start Num: 4

Candidate Starts for Issa_69:

(Start: 4 @49292 has 26 MA's), (7, 49325), (9, 49331), (11, 49343), (17, 49394), (22, 49436), (27, 49505), (32, 49532),

Gene: LilHuddy_79 Start: 49982, Stop: 50263, Start Num: 4

Candidate Starts for LilHuddy_79:

(1, 49943), (Start: 4 @49982 has 26 MA's), (9, 50021), (11, 50033), (12, 50045), (17, 50084), (22, 50126), (23, 50129), (24, 50132),

Gene: Loretta_77 Start: 50079, Stop: 50357, Start Num: 4

Candidate Starts for Loretta_77:

(Start: 4 @50079 has 26 MA's), (6, 50097), (9, 50118), (10, 50121), (11, 50130), (17, 50181), (20, 50214), (22, 50223), (25, 50232), (27, 50292), (30, 50313),

Gene: LucySwiss_75 Start: 49549, Stop: 49830, Start Num: 4

Candidate Starts for LucySwiss_75:

(Start: 4 @49549 has 26 MA's), (7, 49582), (9, 49588), (11, 49600), (15, 49636), (16, 49645), (17, 49651), (20, 49684), (22, 49693), (26, 49723), (27, 49762),

Gene: Makai_78 Start: 50400, Stop: 50669, Start Num: 5

Candidate Starts for Makai_78:

(Start: 5 @50400 has 2 MA's), (9, 50427), (11, 50439), (13, 50466), (17, 50490), (22, 50532), (24, 50538), (25, 50541),

Gene: MediumFry_73 Start: 49440, Stop: 49736, Start Num: 4

Candidate Starts for MediumFry_73:

(Start: 4 @49440 has 26 MA's), (6, 49458), (9, 49479), (10, 49482), (11, 49491), (17, 49542), (22, 49584), (25, 49593), (33, 49728),

Gene: MiniBagel_75 Start: 50225, Stop: 50506, Start Num: 4

Candidate Starts for MiniBagel_75:

(Start: 4 @50225 has 26 MA's), (7, 50258), (9, 50264), (11, 50276), (17, 50327), (22, 50369), (27, 50438), (32, 50465),

Gene: Nightmare_76 Start: 50651, Stop: 50932, Start Num: 4

Candidate Starts for Nightmare_76:

(Start: 4 @50651 has 26 MA's), (9, 50690), (10, 50693), (11, 50702), (17, 50753), (20, 50786), (22, 50795), (25, 50804), (27, 50864), (32, 50891),

Gene: Niktson_75 Start: 50484, Stop: 50765, Start Num: 4

Candidate Starts for Niktson_75:

(Start: 4 @50484 has 26 MA's), (9, 50523), (10, 50526), (11, 50535), (17, 50586), (20, 50619), (22, 50628), (25, 50637), (27, 50697), (32, 50724),

Gene: Nivinsha_76 Start: 49798, Stop: 50046, Start Num: 7

Candidate Starts for Nivinsha_76:

(Start: 4 @49765 has 26 MA's), (7, 49798), (9, 49804), (11, 49816), (15, 49852), (17, 49867), (22, 49909), (27, 49978),

Gene: Phaby_81 Start: 50450, Stop: 50740, Start Num: 4

Candidate Starts for Phaby_81:

(1, 50411), (Start: 4 @50450 has 26 MA's), (9, 50492), (10, 50495), (11, 50504), (17, 50555), (22, 50606), (28, 50675),

Gene: ScienceWizSam_76 Start: 49883, Stop: 50164, Start Num: 4

Candidate Starts for ScienceWizSam_76:

(Start: 4 @49883 has 26 MA's), (9, 49922), (10, 49925), (11, 49934), (17, 49985), (20, 50018), (22, 50027), (27, 50096),

Gene: Shepard_80 Start: 49850, Stop: 50131, Start Num: 4

Candidate Starts for Shepard_80:

(Start: 4 @49850 has 26 MA's), (9, 49889), (11, 49901), (12, 49913), (17, 49952), (21, 49988), (22, 49994), (23, 49997), (24, 50000),

Gene: Synopsis_70 Start: 49691, Stop: 49972, Start Num: 3

Candidate Starts for Synopsis_70:

(Start: 3 @49691 has 6 MA's), (9, 49730), (10, 49733), (11, 49742), (17, 49793), (22, 49835), (27, 49904),

Gene: Tatanka_69 Start: 49869, Stop: 50150, Start Num: 3

Candidate Starts for Tatanka_69:

(Start: 3 @49869 has 6 MA's), (9, 49908), (10, 49911), (11, 49920), (17, 49971), (22, 50013), (27, 50082),

Gene: Teacup_76 Start: 50542, Stop: 50823, Start Num: 4

Candidate Starts for Teacup_76:

(Start: 4 @50542 has 26 MA's), (9, 50581), (11, 50593), (15, 50629), (16, 50638), (17, 50644), (20, 50677), (22, 50686), (27, 50755),

Gene: Tenno_74 Start: 50258, Stop: 50539, Start Num: 4

Candidate Starts for Tenno_74:

(Start: 4 @50258 has 26 MA's), (7, 50291), (9, 50297), (11, 50309), (17, 50360), (22, 50402), (27, 50471), (32, 50498),

Gene: Tipton_80 Start: 50326, Stop: 50616, Start Num: 4

Candidate Starts for Tipton_80:

(1, 50287), (Start: 4 @50326 has 26 MA's), (9, 50371), (11, 50383), (14, 50413), (17, 50434), (20, 50467), (21, 50470), (22, 50476),

Gene: Tokki_85 Start: 50275, Stop: 50544, Start Num: 4

Candidate Starts for Tokki_85:

(1, 50236), (Start: 4 @50275 has 26 MA's), (9, 50314), (11, 50326), (17, 50377), (19, 50401), (22, 50419), (29, 50491), (31, 50506),

Gene: Truckee_76 Start: 50185, Stop: 50454, Start Num: 5

Candidate Starts for Truckee_76:

(Start: 5 @50185 has 2 MA's), (9, 50212), (11, 50224), (13, 50251), (17, 50275), (22, 50317), (24, 50323), (25, 50326),

Gene: Trustiboi_73 Start: 49972, Stop: 50253, Start Num: 3

Candidate Starts for Trustiboi_73:

(Start: 3 @49972 has 6 MA's), (9, 50011), (10, 50014), (11, 50023), (17, 50074), (22, 50116), (27, 50185),

Gene: Westerlin_72 Start: 50888, Stop: 51172, Start Num: 3

Candidate Starts for Westerlin_72:

(Start: 3 @50888 has 6 MA's), (9, 50927), (10, 50930), (11, 50939), (17, 50990), (22, 51032), (27, 51101),

Gene: Zippen_81 Start: 50672, Stop: 50950, Start Num: 4

Candidate Starts for Zippen_81:

(Start: 4 @50672 has 26 MA's), (6, 50690), (9, 50711), (10, 50714), (11, 50723), (17, 50774), (22, 50816), (27, 50885), (30, 50906),