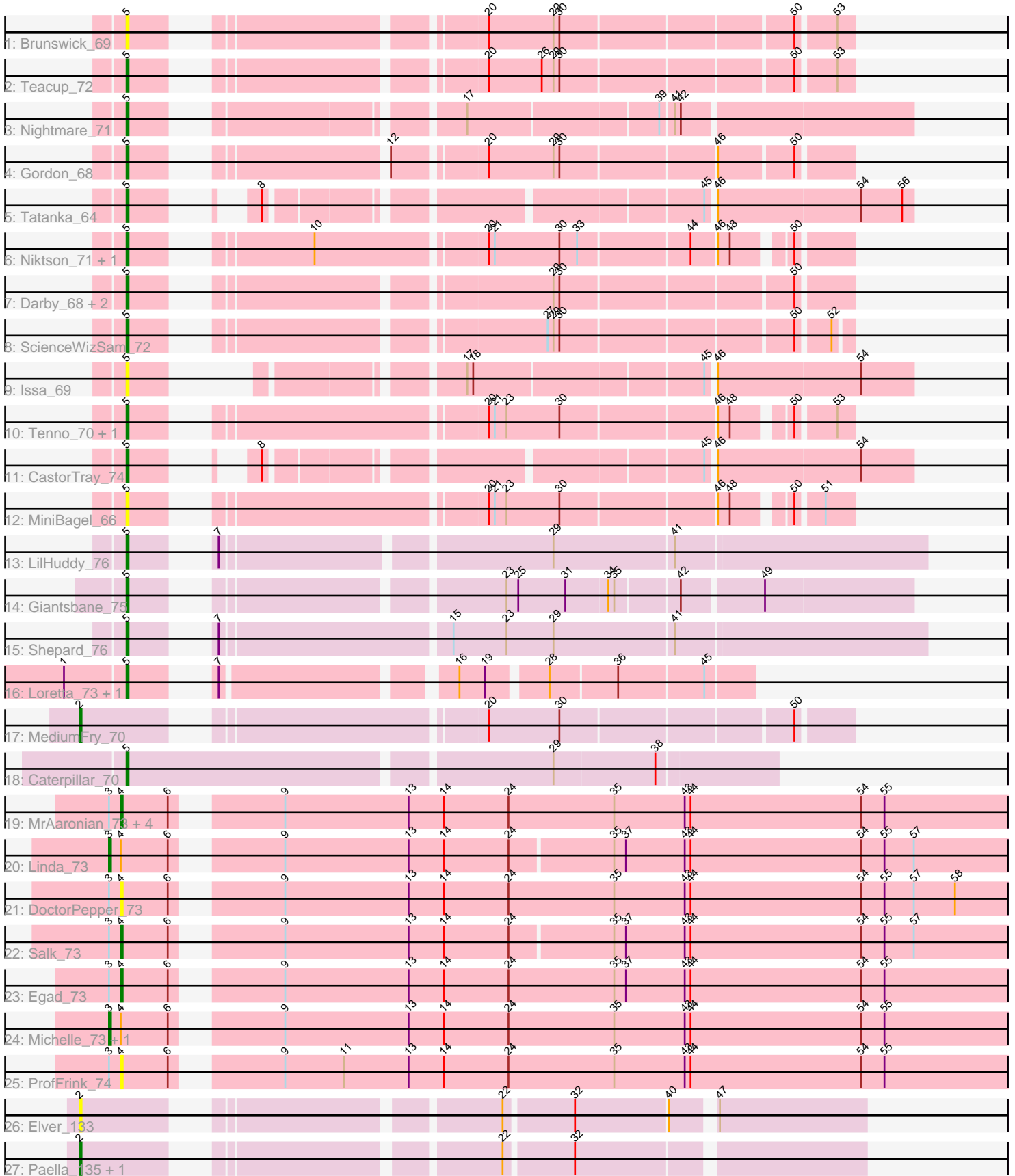


Pham 163755



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 163755 Report

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

Pham number 163755 has 38 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Brunswick_69
- Track 2 : Teacup_72
- Track 3 : Nightmare_71
- Track 4 : Gordon_68
- Track 5 : Tatanka_64
- Track 6 : Niktson_71, ElephantMan_71
- Track 7 : Darby_68, Trustiboi_69, DevitoJr_70
- Track 8 : ScienceWizSam_72
- Track 9 : Issa_69
- Track 10 : Tenno_70, CapnMurica_68
- Track 11 : CastorTray_74
- Track 12 : MiniBagel_66
- Track 13 : LilHuddy_76
- Track 14 : Giantsbane_75
- Track 15 : Shepard_76
- Track 16 : Loretta_73, Ingrid_77
- Track 17 : MediumFry_70
- Track 18 : Caterpillar_70
- Track 19 : MrAaronian_73, Djungelskog_72, Sloopyjoe_73, BronxBay_73, StarLord_73
- Track 20 : Linda_73
- Track 21 : DoctorPepper_73
- Track 22 : Salk_73
- Track 23 : Egad_73
- Track 24 : Michelle_73, Stayer_73
- Track 25 : ProfFrink_74
- Track 26 : Elver_133
- Track 27 : Paella_135, Qui_135

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

The start number called the most often in the published annotations is 5, it was called in 19 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Brunswick_69, CapnMurica_68, CastorTray_74, Caterpillar_70, Darby_68, DevitoJr_70, ElephantMan_71, Giantsbane_75, Gordon_68, Ingrid_77, Issa_69, LilHuddy_76, Loretta_73, MiniBagel_66, Nightmare_71, Niktson_71, ScienceWizSam_72, Shepard_76, Tatanka_64, Teacup_72, Tenno_70, Trustiboi_69,

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

-

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

- BronxBay_73, Djungelskog_72, DoctorPepper_73, Egad_73, Elver_133, Linda_73, MediumFry_70, Michelle_73, MrAaronian_73, Paella_135, ProfFrink_74, Qui_135, Salk_73, Sloopyjoe_73, StarLord_73, Stayer_73,

Summary by start number:

Start 2:

- Found in 4 of 38 (10.5%) of genes in pham
- Manual Annotations of this start: 3 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver_133 (FK), MediumFry_70 (AU4), Paella_135 (FK), Qui_135 (FK),

Start 3:

- Found in 12 of 38 (31.6%) of genes in pham
- Manual Annotations of this start: 3 of 32
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Linda_73 (AW), Michelle_73 (AW), Stayer_73 (AW),

Start 4:

- Found in 12 of 38 (31.6%) of genes in pham
- Manual Annotations of this start: 7 of 32
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BronxBay_73 (AW), Djungelskog_72 (AW), DoctorPepper_73 (AW), Egad_73 (AW), MrAaronian_73 (AW), ProfFrink_74 (AW), Salk_73 (AW), Sloopyjoe_73 (AW), StarLord_73 (AW),

Start 5:

- Found in 22 of 38 (57.9%) of genes in pham
- Manual Annotations of this start: 19 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brunswick_69 (AU1), CapnMurica_68 (AU1), CastorTray_74 (AU1), Caterpillar_70 (AU4), Darby_68 (AU1), DevitoJr_70 (AU1), ElephantMan_71 (AU1), Giantsbane_75 (AU2), Gordon_68 (AU1), Ingrid_77 (AU3), Issa_69 (AU1), LilHuddy_76 (AU2), Loretta_73 (AU3), MiniBagel_66 (AU1), Nightmare_71 (AU1), Niktson_71 (AU1), ScienceWizSam_72 (AU1), Shepard_76 (AU2), Tatanka_64 (AU1), Teacup_72 (AU1), Tenno_70 (AU1), Trustiboi_69 (AU1),

Summary by clusters:

There are 6 clusters represented in this pham: AU1, AU3, AU2, AU4, AW, FK,

Info for manual annotations of cluster AU1:

- Start number 5 was manually annotated 13 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 5 was manually annotated 3 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 5 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 2 was manually annotated 1 time for cluster AU4.
- Start number 5 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AW:

- Start number 3 was manually annotated 3 times for cluster AW.
- Start number 4 was manually annotated 7 times for cluster AW.

Info for manual annotations of cluster FK:

- Start number 2 was manually annotated 2 times for cluster FK.

Gene Information:

Gene: BronxBay_73 Start: 45711, Stop: 46145, Start Num: 4

Candidate Starts for BronxBay_73:

(Start: 3 @45705 has 3 MA's), (Start: 4 @45711 has 7 MA's), (6, 45735), (9, 45777), (13, 45840), (14, 45858), (24, 45891), (35, 45945), (43, 45981), (44, 45984), (54, 46071), (55, 46083),

Gene: Brunswick_69 Start: 47263, Stop: 47580, Start Num: 5

Candidate Starts for Brunswick_69:

(Start: 5 @47263 has 19 MA's), (20, 47407), (29, 47440), (30, 47443), (50, 47554), (53, 47572),

Gene: CapnMurica_68 Start: 47980, Stop: 48297, Start Num: 5

Candidate Starts for CapnMurica_68:

(Start: 5 @47980 has 19 MA's), (20, 48130), (21, 48133), (23, 48139), (30, 48166), (46, 48241), (48, 48247), (50, 48271), (53, 48289),

Gene: CastorTray_74 Start: 48014, Stop: 48340, Start Num: 5

Candidate Starts for CastorTray_74:

(Start: 5 @48014 has 19 MA's), (8, 48044), (45, 48239), (46, 48242), (54, 48314),

Gene: Caterpillar_70 Start: 46858, Stop: 47175, Start Num: 5

Candidate Starts for Caterpillar_70:

(Start: 5 @46858 has 19 MA's), (29, 47065), (38, 47116),

Gene: Darby_68 Start: 47007, Stop: 47324, Start Num: 5

Candidate Starts for Darby_68:

(Start: 5 @47007 has 19 MA's), (29, 47184), (30, 47187), (50, 47298),

Gene: DevitoJr_70 Start: 47392, Stop: 47709, Start Num: 5

Candidate Starts for DevitoJr_70:

(Start: 5 @47392 has 19 MA's), (29, 47569), (30, 47572), (50, 47683),

Gene: Djungelskog_72 Start: 45713, Stop: 46147, Start Num: 4

Candidate Starts for Djungelskog_72:

(Start: 3 @45707 has 3 MA's), (Start: 4 @45713 has 7 MA's), (6, 45737), (9, 45779), (13, 45842), (14, 45860), (24, 45893), (35, 45947), (43, 45983), (44, 45986), (54, 46073), (55, 46085),

Gene: DoctorPepper_73 Start: 45415, Stop: 45849, Start Num: 4

Candidate Starts for DoctorPepper_73:

(Start: 3 @45409 has 3 MA's), (Start: 4 @45415 has 7 MA's), (6, 45439), (9, 45481), (13, 45544), (14, 45562), (24, 45595), (35, 45649), (43, 45685), (44, 45688), (54, 45775), (55, 45787), (57, 45802), (58, 45823),

Gene: Egad_73 Start: 45689, Stop: 46123, Start Num: 4

Candidate Starts for Egad_73:

(Start: 3 @45683 has 3 MA's), (Start: 4 @45689 has 7 MA's), (6, 45713), (9, 45755), (13, 45818), (14, 45836), (24, 45869), (35, 45923), (37, 45929), (43, 45959), (44, 45962), (54, 46049), (55, 46061),

Gene: ElephantMan_71 Start: 47893, Stop: 48210, Start Num: 5

Candidate Starts for ElephantMan_71:

(Start: 5 @47893 has 19 MA's), (10, 47962), (20, 48043), (21, 48046), (30, 48079), (33, 48088), (44, 48142), (46, 48154), (48, 48160), (50, 48184),

Gene: Elver_133 Start: 71797, Stop: 72144, Start Num: 2

Candidate Starts for Elver_133:

(Start: 2 @71797 has 3 MA's), (22, 71974), (32, 72007), (40, 72052), (47, 72070),

Gene: Giantsbane_75 Start: 46546, Stop: 46899, Start Num: 5

Candidate Starts for Giantsbane_75:

(Start: 5 @46546 has 19 MA's), (23, 46702), (25, 46708), (31, 46732), (34, 46753), (35, 46756), (42, 46786), (49, 46825),

Gene: Gordon_68 Start: 47880, Stop: 48197, Start Num: 5

Candidate Starts for Gordon_68:

(Start: 5 @47880 has 19 MA's), (12, 47982), (20, 48024), (29, 48057), (30, 48060), (46, 48135), (50, 48171),

Gene: Ingrid_77 Start: 47844, Stop: 48110, Start Num: 5

Candidate Starts for Ingrid_77:

(1, 47814), (Start: 5 @47844 has 19 MA's), (7, 47868), (16, 47973), (19, 47985), (28, 48012), (36, 48045), (45, 48087),

Gene: Issa_69 Start: 47054, Stop: 47380, Start Num: 5

Candidate Starts for Issa_69:

(Start: 5 @47054 has 19 MA's), (17, 47165), (18, 47168), (45, 47279), (46, 47282), (54, 47354),

Gene: LilHuddy_76 Start: 47672, Stop: 48037, Start Num: 5

Candidate Starts for LilHuddy_76:

(Start: 5 @47672 has 19 MA's), (7, 47696), (29, 47852), (41, 47912),

Gene: Linda_73 Start: 45702, Stop: 46139, Start Num: 3

Candidate Starts for Linda_73:

(Start: 3 @45702 has 3 MA's), (Start: 4 @45708 has 7 MA's), (6, 45732), (9, 45774), (13, 45837), (14, 45855), (24, 45888), (35, 45939), (37, 45945), (43, 45975), (44, 45978), (54, 46065), (55, 46077), (57,

46092),

Gene: Loretta_73 Start: 47844, Stop: 48110, Start Num: 5

Candidate Starts for Loretta_73:

(1, 47814), (Start: 5 @47844 has 19 MA's), (7, 47868), (16, 47973), (19, 47985), (28, 48012), (36, 48045), (45, 48087),

Gene: MediumFry_70 Start: 47193, Stop: 47540, Start Num: 2

Candidate Starts for MediumFry_70:

(Start: 2 @47193 has 3 MA's), (20, 47367), (30, 47403), (50, 47514),

Gene: Michelle_73 Start: 45704, Stop: 46144, Start Num: 3

Candidate Starts for Michelle_73:

(Start: 3 @45704 has 3 MA's), (Start: 4 @45710 has 7 MA's), (6, 45734), (9, 45776), (13, 45839), (14, 45857), (24, 45890), (35, 45944), (43, 45980), (44, 45983), (54, 46070), (55, 46082),

Gene: MiniBagel_66 Start: 47984, Stop: 48301, Start Num: 5

Candidate Starts for MiniBagel_66:

(Start: 5 @47984 has 19 MA's), (20, 48134), (21, 48137), (23, 48143), (30, 48170), (46, 48245), (48, 48251), (50, 48275), (51, 48287),

Gene: MrAaronian_73 Start: 45710, Stop: 46144, Start Num: 4

Candidate Starts for MrAaronian_73:

(Start: 3 @45704 has 3 MA's), (Start: 4 @45710 has 7 MA's), (6, 45734), (9, 45776), (13, 45839), (14, 45857), (24, 45890), (35, 45944), (43, 45980), (44, 45983), (54, 46070), (55, 46082),

Gene: Nightmare_71 Start: 48297, Stop: 48647, Start Num: 5

Candidate Starts for Nightmare_71:

(Start: 5 @48297 has 19 MA's), (17, 48432), (39, 48525), (41, 48531), (42, 48534),

Gene: Niktson_71 Start: 47893, Stop: 48210, Start Num: 5

Candidate Starts for Niktson_71:

(Start: 5 @47893 has 19 MA's), (10, 47962), (20, 48043), (21, 48046), (30, 48079), (33, 48088), (44, 48142), (46, 48154), (48, 48160), (50, 48184),

Gene: Paella_135 Start: 72360, Stop: 72707, Start Num: 2

Candidate Starts for Paella_135:

(Start: 2 @72360 has 3 MA's), (22, 72537), (32, 72570),

Gene: ProfFrink_74 Start: 45688, Stop: 46122, Start Num: 4

Candidate Starts for ProfFrink_74:

(Start: 3 @45682 has 3 MA's), (Start: 4 @45688 has 7 MA's), (6, 45712), (9, 45754), (11, 45784), (13, 45817), (14, 45835), (24, 45868), (35, 45922), (43, 45958), (44, 45961), (54, 46048), (55, 46060),

Gene: Qui_135 Start: 72360, Stop: 72707, Start Num: 2

Candidate Starts for Qui_135:

(Start: 2 @72360 has 3 MA's), (22, 72537), (32, 72570),

Gene: Salk_73 Start: 45708, Stop: 46139, Start Num: 4

Candidate Starts for Salk_73:

(Start: 3 @45702 has 3 MA's), (Start: 4 @45708 has 7 MA's), (6, 45732), (9, 45774), (13, 45837), (14, 45855), (24, 45888), (35, 45939), (37, 45945), (43, 45975), (44, 45978), (54, 46065), (55, 46077), (57, 46092),

Gene: ScienceWizSam_72 Start: 47594, Stop: 47908, Start Num: 5
Candidate Starts for ScienceWizSam_72:
(Start: 5 @47594 has 19 MA's), (27, 47768), (29, 47771), (30, 47774), (50, 47885), (52, 47900),

Gene: Shepard_76 Start: 47525, Stop: 47896, Start Num: 5
Candidate Starts for Shepard_76:
(Start: 5 @47525 has 19 MA's), (7, 47549), (15, 47660), (23, 47687), (29, 47711), (41, 47771),

Gene: Sloopyjoe_73 Start: 45712, Stop: 46146, Start Num: 4
Candidate Starts for Sloopyjoe_73:
(Start: 3 @45706 has 3 MA's), (Start: 4 @45712 has 7 MA's), (6, 45736), (9, 45778), (13, 45841), (14, 45859), (24, 45892), (35, 45946), (43, 45982), (44, 45985), (54, 46072), (55, 46084),

Gene: StarLord_73 Start: 45705, Stop: 46139, Start Num: 4
Candidate Starts for StarLord_73:
(Start: 3 @45699 has 3 MA's), (Start: 4 @45705 has 7 MA's), (6, 45729), (9, 45771), (13, 45834), (14, 45852), (24, 45885), (35, 45939), (43, 45975), (44, 45978), (54, 46065), (55, 46077),

Gene: Stayer_73 Start: 45702, Stop: 46142, Start Num: 3
Candidate Starts for Stayer_73:
(Start: 3 @45702 has 3 MA's), (Start: 4 @45708 has 7 MA's), (6, 45732), (9, 45774), (13, 45837), (14, 45855), (24, 45888), (35, 45942), (43, 45978), (44, 45981), (54, 46068), (55, 46080),

Gene: Tatanka_64 Start: 47501, Stop: 47827, Start Num: 5
Candidate Starts for Tatanka_64:
(Start: 5 @47501 has 19 MA's), (8, 47531), (45, 47726), (46, 47729), (54, 47801), (56, 47822),

Gene: Teacup_72 Start: 47933, Stop: 48250, Start Num: 5
Candidate Starts for Teacup_72:
(Start: 5 @47933 has 19 MA's), (20, 48077), (26, 48104), (29, 48110), (30, 48113), (50, 48224), (53, 48242),

Gene: Tenno_70 Start: 48017, Stop: 48334, Start Num: 5
Candidate Starts for Tenno_70:
(Start: 5 @48017 has 19 MA's), (20, 48167), (21, 48170), (23, 48176), (30, 48203), (46, 48278), (48, 48284), (50, 48308), (53, 48326),

Gene: Trustiboi_69 Start: 47616, Stop: 47933, Start Num: 5
Candidate Starts for Trustiboi_69:
(Start: 5 @47616 has 19 MA's), (29, 47793), (30, 47796), (50, 47907),