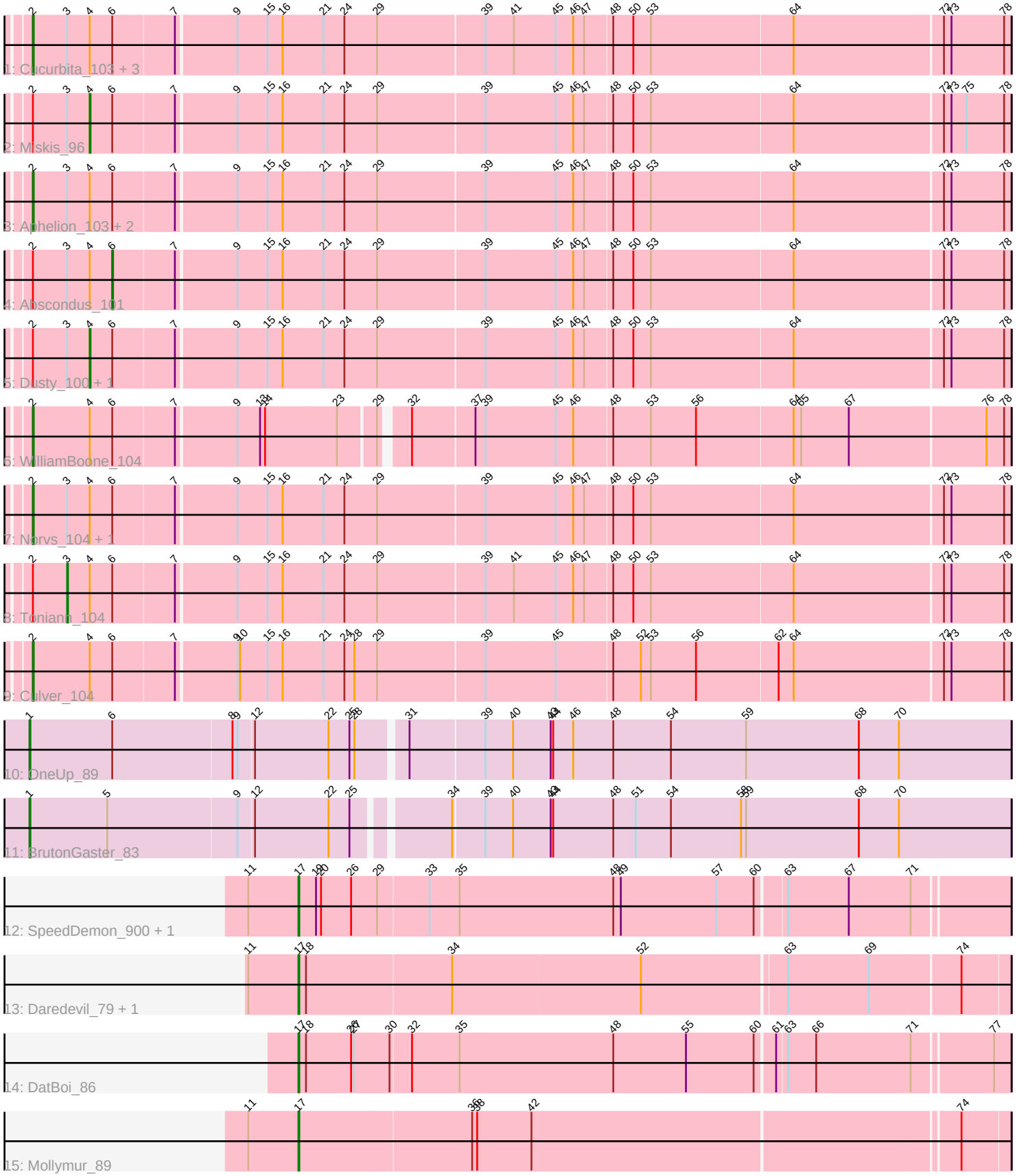
Pham 309183


1: Cucurbita_103 + 3
2: Miskis_96
3: Aphelion_103 + 2
4: Abscondus_101
5: Dusty_100 + 1
6: WilliamBoone_104
7: Norvs_104 + 1
8: Toniann_104
9: Culver_104
10: OneUp_89
11: BrutonGaster_83
12: SpeedDemon_900 + 1
13: Daredevil_79 + 1
14: DatBoi_86
15: Mollymur_89

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 309183 Report

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

Pham number 309183 has 24 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Cucurbita_103, Bachita_104, PhinkBoden_101, Engineer_103
• Track 2 : Miskis_96
• Track 3 : Aphelion_103, Smoothie_103, Lozinak_102
• Track 4 : Abscondus_101
• Track 5 : Dusty_100, Geeche_101
• Track 6 : WilliamBoone_104
• Track 7 : Norvs_104, ClubL_103
• Track 8 : Toniann_104
• Track 9 : Culver_104
• Track 10 : OneUp_89
• Track 11 : BrutonGaster_83
• Track 12 : SpeedDemon_900, Bantam_89
• Track 13 : Daredevil_79, Towmatter_79
• Track 14 : DatBoi_86
• Track 15 : Mollymur_89

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

The start number called the most often in the published annotations is 2, it was called in 11 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aphelion_103, Bachita_104, ClubL_103, Cucurbita_103, Culver_104, Engineer_103, Lozinak_102, Norvs_104, PhinkBoden_101, Smoothie_103, WilliamBoone_104,

Genes that have the "Most Annotated" start but do not call it:
• Abscondus_101, Dusty_100, Geeche_101, Miskis_96, Toniann_104,

Genes that do not have the "Most Annotated" start:
• Bantam_89, BrutonGaster_83, Daredevil_79, DatBoi_86, Mollymur_89, OneUp_89, SpeedDemon_900, Towmatter_79,

Summary by start number:

Start 1:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BrutonGaster_83 (CQ2), OneUp_89 (CQ2),

Start 2:
• Found in 16 of 24 (66.7%) of genes in pham
• Manual Annotations of this start: 11 of 23
• Called 68.8% of time when present
• Phage (with cluster) where this start called: Aphelion_103 (CQ1), Bachita_104 (CQ1), ClubL_103 (CQ1), Cucurbita_103 (CQ1), Culver_104 (CQ1), Engineer_103 (CQ1), Lozinak_102 (CQ1), Norvs_104 (CQ1), PhinkBoden_101 (CQ1), Smoothie_103 (CQ1), WilliamBoone_104 (CQ1),

Start 3:
• Found in 14 of 24 (58.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 7.1% of time when present
• Phage (with cluster) where this start called: Toniann_104 (CQ1),

Start 4:
• Found in 16 of 24 (66.7%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 18.8% of time when present
• Phage (with cluster) where this start called: Dusty_100 (CQ1), Geeche_101 (CQ1), Miskis_96 (CQ1),

Start 6:
• Found in 17 of 24 (70.8%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Abscondus_101 (CQ1),

Start 17:
• Found in 6 of 24 (25.0%) of genes in pham
• Manual Annotations of this start: 6 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bantam_89 (DL), Daredevil_79 (DL), DatBoi_86 (DL), Mollymur_89 (DL), SpeedDemon_900 (DL), Towmatter_79 (DL),

Summary by clusters:

There are 3 clusters represented in this pham: CQ2, CQ1, DL,

Info for manual annotations of cluster CQ1:
•Start number 2 was manually annotated 11 times for cluster CQ1.
•Start number 3 was manually annotated 1 time for cluster CQ1.
•Start number 4 was manually annotated 2 times for cluster CQ1.
•Start number 6 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CQ2:

•Start number 1 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DL:
•Start number 17 was manually annotated 6 times for cluster DL.

Gene Information:

Gene: Abscondus_101 Start: 59984, Stop: 61027, Start Num: 6
Candidate Starts for Abscondus_101:
(Start: 2 @59891 has 11 MA's), (Start: 3 @59930 has 1 MA's), (Start: 4 @59957 has 2 MA's), (Start: 6 @59984 has 1 MA's), (7, 60056), (9, 60125), (15, 60161), (16, 60179), (21, 60227), (24, 60251), (29, 60290), (39, 60416), (45, 60497), (46, 60518), (47, 60530), (48, 60560), (50, 60584), (53, 60605), (64, 60773), (72, 60947), (73, 60956), (78, 61019),

Gene: Aphelion_103 Start: 61444, Stop: 62580, Start Num: 2
Candidate Starts for Aphelion_103:
(Start: 2 @61444 has 11 MA's), (Start: 3 @61483 has 1 MA's), (Start: 4 @61510 has 2 MA's), (Start: 6 @61537 has 1 MA's), (7, 61609), (9, 61678), (15, 61714), (16, 61732), (21, 61780), (24, 61804), (29, 61843), (39, 61969), (45, 62050), (46, 62071), (47, 62083), (48, 62113), (50, 62137), (53, 62158), (64, 62326), (72, 62500), (73, 62509), (78, 62572),

Gene: Bachita_104 Start: 61102, Stop: 62238, Start Num: 2
Candidate Starts for Bachita_104:
(Start: 2 @61102 has 11 MA's), (Start: 3 @61141 has 1 MA's), (Start: 4 @61168 has 2 MA's), (Start: 6 @61195 has 1 MA's), (7, 61267), (9, 61336), (15, 61372), (16, 61390), (21, 61438), (24, 61462), (29, 61501), (39, 61627), (41, 61660), (45, 61708), (46, 61729), (47, 61741), (48, 61771), (50, 61795), (53, 61816), (64, 61984), (72, 62158), (73, 62167), (78, 62230),

Gene: Bantam_89 Start: 61381, Stop: 60554, Start Num: 17
Candidate Starts for Bantam_89:
(11, 61441), (Start: 17 @61381 has 6 MA's), (19, 61360), (20, 61354), (26, 61318), (29, 61288), (33, 61228), (35, 61192), (48, 61009), (49, 61000), (57, 60886), (60, 60841), (63, 60808), (67, 60736), (71, 60664),

Gene: BrutonGaster_83 Start: 55228, Stop: 56364, Start Num: 1
Candidate Starts for BrutonGaster_83:
(Start: 1 @55228 has 2 MA's), (5, 55321), (9, 55474), (12, 55492), (22, 55579), (25, 55603), (34, 55702), (39, 55738), (40, 55771), (43, 55816), (44, 55819), (48, 55888), (51, 55915), (54, 55957), (58, 56041), (59, 56047), (68, 56182), (70, 56230),

Gene: ClubL_103 Start: 60032, Stop: 61168, Start Num: 2
Candidate Starts for ClubL_103:
(Start: 2 @60032 has 11 MA's), (Start: 3 @60071 has 1 MA's), (Start: 4 @60098 has 2 MA's), (Start: 6 @60125 has 1 MA's), (7, 60197), (9, 60266), (15, 60302), (16, 60320), (21, 60368), (24, 60392), (29, 60431), (39, 60557), (45, 60638), (46, 60659), (47, 60671), (48, 60701), (50, 60725), (53, 60746), (64, 60914), (72, 61088), (73, 61097), (78, 61160),

Gene: Cucurbita_103 Start: 61609, Stop: 62745, Start Num: 2
Candidate Starts for Cucurbita_103:
(Start: 2 @61609 has 11 MA's), (Start: 3 @61648 has 1 MA's), (Start: 4 @61675 has 2 MA's), (Start: 6 @61702 has 1 MA's), (7, 61774), (9, 61843), (15, 61879), (16, 61897), (21, 61945), (24, 61969), (29,

62008), (39, 62134), (41, 62167), (45, 62215), (46, 62236), (47, 62248), (48, 62278), (50, 62302), (53, 62323), (64, 62491), (72, 62665), (73, 62674), (78, 62737),

Gene: Culver_104 Start: 59931, Stop: 61067, Start Num: 2
Candidate Starts for Culver_104:
(Start: 2 @59931 has 11 MA's), (Start: 4 @59997 has 2 MA's), (Start: 6 @60024 has 1 MA's), (7, 60096), (9, 60165), (10, 60168), (15, 60201), (16, 60219), (21, 60267), (24, 60291), (28, 60303), (29, 60330), (39, 60456), (45, 60537), (48, 60600), (52, 60633), (53, 60645), (56, 60699), (62, 60795), (64, 60813), (72, 60987), (73, 60996), (78, 61059),

Gene: Daredevil_79 Start: 57031, Stop: 56204, Start Num: 17
Candidate Starts for Daredevil_79:
(11, 57091), (Start: 17 @57031 has 6 MA's), (18, 57022), (34, 56851), (52, 56629), (63, 56461), (69, 56365), (74, 56260),

Gene: DatBoi_86 Start: 60529, Stop: 59702, Start Num: 17
Candidate Starts for DatBoi_86:
(Start: 17 @60529 has 6 MA's), (18, 60520), (26, 60466), (27, 60463), (30, 60421), (32, 60397), (35, 60340), (48, 60157), (55, 60070), (60, 59989), (61, 59968), (63, 59956), (66, 59923), (71, 59812), (77, 59722),

Gene: Dusty_100 Start: 60016, Stop: 61086, Start Num: 4
Candidate Starts for Dusty_100:
(Start: 2 @59950 has 11 MA's), (Start: 3 @59989 has 1 MA's), (Start: 4 @60016 has 2 MA's), (Start: 6 @60043 has 1 MA's), (7, 60115), (9, 60184), (15, 60220), (16, 60238), (21, 60286), (24, 60310), (29, 60349), (39, 60475), (45, 60556), (46, 60577), (47, 60589), (48, 60619), (50, 60643), (53, 60664), (64, 60832), (72, 61006), (73, 61015), (78, 61078),

Gene: Engineer_103 Start: 61075, Stop: 62211, Start Num: 2
Candidate Starts for Engineer_103:
(Start: 2 @61075 has 11 MA's), (Start: 3 @61114 has 1 MA's), (Start: 4 @61141 has 2 MA's), (Start: 6 @61168 has 1 MA's), (7, 61240), (9, 61309), (15, 61345), (16, 61363), (21, 61411), (24, 61435), (29, 61474), (39, 61600), (41, 61633), (45, 61681), (46, 61702), (47, 61714), (48, 61744), (50, 61768), (53, 61789), (64, 61957), (72, 62131), (73, 62140), (78, 62203),

Gene: Geeche_101 Start: 60239, Stop: 61309, Start Num: 4
Candidate Starts for Geeche_101:
(Start: 2 @60173 has 11 MA's), (Start: 3 @60212 has 1 MA's), (Start: 4 @60239 has 2 MA's), (Start: 6 @60266 has 1 MA's), (7, 60338), (9, 60407), (15, 60443), (16, 60461), (21, 60509), (24, 60533), (29, 60572), (39, 60698), (45, 60779), (46, 60800), (47, 60812), (48, 60842), (50, 60866), (53, 60887), (64, 61055), (72, 61229), (73, 61238), (78, 61301),

Gene: Lozinak_102 Start: 60913, Stop: 62049, Start Num: 2
Candidate Starts for Lozinak_102:
(Start: 2 @60913 has 11 MA's), (Start: 3 @60952 has 1 MA's), (Start: 4 @60979 has 2 MA's), (Start: 6 @61006 has 1 MA's), (7, 61078), (9, 61147), (15, 61183), (16, 61201), (21, 61249), (24, 61273), (29, 61312), (39, 61438), (45, 61519), (46, 61540), (47, 61552), (48, 61582), (50, 61606), (53, 61627), (64, 61795), (72, 61969), (73, 61978), (78, 62041),

Gene: Miskis_96 Start: 59679, Stop: 60749, Start Num: 4
Candidate Starts for Miskis_96:
(Start: 2 @59613 has 11 MA's), (Start: 3 @59652 has 1 MA's), (Start: 4 @59679 has 2 MA's), (Start: 6 @59706 has 1 MA's), (7, 59778), (9, 59847), (15, 59883), (16, 59901), (21, 59949), (24, 59973), (29,

60012), (39, 60138), (45, 60219), (46, 60240), (47, 60252), (48, 60282), (50, 60306), (53, 60327), (64, 60495), (72, 60669), (73, 60678), (75, 60696), (78, 60741),

Gene: Mollymur_89 Start: 62174, Stop: 61350, Start Num: 17
Candidate Starts for Mollymur_89:
(11, 62234), (Start: 17 @62174 has 6 MA's), (36, 61970), (38, 61964), (42, 61901), (74, 61406),

Gene: Norvs_104 Start: 60940, Stop: 62076, Start Num: 2
Candidate Starts for Norvs_104:
(Start: 2 @60940 has 11 MA's), (Start: 3 @60979 has 1 MA's), (Start: 4 @61006 has 2 MA's), (Start: 6 @61033 has 1 MA's), (7, 61105), (9, 61174), (15, 61210), (16, 61228), (21, 61276), (24, 61300), (29, 61339), (39, 61465), (45, 61546), (46, 61567), (47, 61579), (48, 61609), (50, 61633), (53, 61654), (64, 61822), (72, 61996), (73, 62005), (78, 62068),

Gene: OneUp_89 Start: 57102, Stop: 58247, Start Num: 1
Candidate Starts for OneUp_89:
(Start: 1 @57102 has 2 MA's), (Start: 6 @57201 has 1 MA's), (8, 57342), (9, 57348), (12, 57366), (22, 57453), (25, 57477), (28, 57483), (31, 57534), (39, 57621), (40, 57654), (43, 57699), (44, 57702), (46, 57726), (48, 57771), (54, 57840), (59, 57930), (68, 58065), (70, 58113),

Gene: PhinkBoden_101 Start: 60703, Stop: 61839, Start Num: 2
Candidate Starts for PhinkBoden_101:
(Start: 2 @60703 has 11 MA's), (Start: 3 @60742 has 1 MA's), (Start: 4 @60769 has 2 MA's), (Start: 6 @60796 has 1 MA's), (7, 60868), (9, 60937), (15, 60973), (16, 60991), (21, 61039), (24, 61063), (29, 61102), (39, 61228), (41, 61261), (45, 61309), (46, 61330), (47, 61342), (48, 61372), (50, 61396), (53, 61417), (64, 61585), (72, 61759), (73, 61768), (78, 61831),

Gene: Smoothie_103 Start: 60913, Stop: 62049, Start Num: 2
Candidate Starts for Smoothie_103:
(Start: 2 @60913 has 11 MA's), (Start: 3 @60952 has 1 MA's), (Start: 4 @60979 has 2 MA's), (Start: 6 @61006 has 1 MA's), (7, 61078), (9, 61147), (15, 61183), (16, 61201), (21, 61249), (24, 61273), (29, 61312), (39, 61438), (45, 61519), (46, 61540), (47, 61552), (48, 61582), (50, 61606), (53, 61627), (64, 61795), (72, 61969), (73, 61978), (78, 62041),

Gene: SpeedDemon_900 Start: 63302, Stop: 62475, Start Num: 17
Candidate Starts for SpeedDemon_900:
(11, 63362), (Start: 17 @63302 has 6 MA's), (19, 63281), (20, 63275), (26, 63239), (29, 63209), (33, 63149), (35, 63113), (48, 62930), (49, 62921), (57, 62807), (60, 62762), (63, 62729), (67, 62657), (71, 62585),

Gene: Toniann_104 Start: 60922, Stop: 62019, Start Num: 3
Candidate Starts for Toniann_104:
(Start: 2 @60883 has 11 MA's), (Start: 3 @60922 has 1 MA's), (Start: 4 @60949 has 2 MA's), (Start: 6 @60976 has 1 MA's), (7, 61048), (9, 61117), (15, 61153), (16, 61171), (21, 61219), (24, 61243), (29, 61282), (39, 61408), (41, 61441), (45, 61489), (46, 61510), (47, 61522), (48, 61552), (50, 61576), (53, 61597), (64, 61765), (72, 61939), (73, 61948), (78, 62011),

Gene: Towmatter_79 Start: 57110, Stop: 56283, Start Num: 17
Candidate Starts for Towmatter_79:
(11, 57170), (Start: 17 @57110 has 6 MA's), (18, 57101), (34, 56930), (52, 56708), (63, 56540), (69, 56444), (74, 56339),

Gene: WilliamBoone_104 Start: 59651, Stop: 60766, Start Num: 2

Candidate Starts for WilliamBoone_104:
(Start: 2 @59651 has 11 MA's), (Start: 4 @59717 has 2 MA's), (Start: 6 @59744 has 1 MA's), (7, 59816), (9, 59885), (13, 59912), (14, 59918), (23, 60002), (29, 60044), (32, 60071), (37, 60143), (39, 60155), (45, 60236), (46, 60257), (48, 60299), (53, 60344), (56, 60398), (64, 60512), (65, 60521), (67, 60578), (76, 60737), (78, 60758),