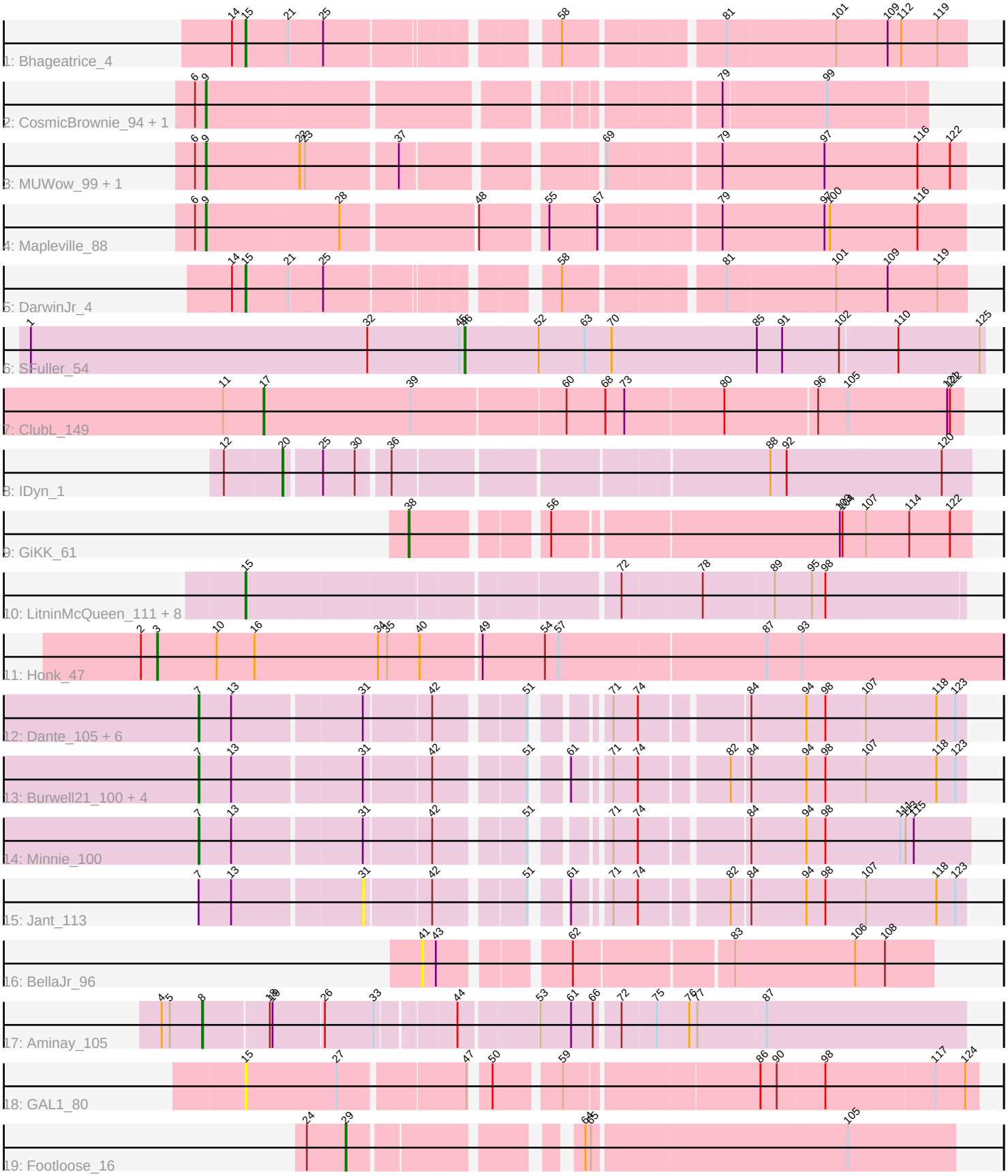
Pham 347806


1: Bhageatrice_4
2: CosmicBrownie_94 + 1
3: MUWow_99 + 1
4: Mapleville_88
5: DarwinJr_4
6: SFuller_54
7: ClubL_149
8: IDyn_1
9: GiKK_61
10: LitninMcQueen_111 + 8
11: Honk_47
12: Dante_105 + 6
13: Burwell21_100 + 4
14: Minnie_100
15: Jant_113
16: BellaJr_96
17: Aminay_105
18: GAL1_80
19: Footloose_16

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 347806 Report

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

Pham number 347806 has 39 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Bhageatrice_4
• Track 2 : CosmicBrownie_94, Phrank15_101
• Track 3 : MUWow_99, Anekin_96
• Track 4 : Mapleville_88
• Track 5 : DarwinJr_4
• Track 6 : SFuller_54
• Track 7 : ClubL_149
• Track 8 : IDyn_1
• Track 9 : GiKK_61
• Track 10 : LitninMcQueen_111, Getalong_104, ShawBrad_109, Asapag_99, Horus_104, Frickyeah_108, Budski_107, BENtherdunthat_102, Leroy_104
• Track 11 : Honk_47
• Track 12 : Dante_105, WillSterrel_104, Sandalphon_104, Royals2015_109, IrishSherpFalk_106, Mahavrat_99, Juniper1_99
• Track 13 : Burwell21_100, Llij_100, Phanphagia_110, Shauna1_107, Whatsapiecost_100
• Track 14 : Minnie_100
• Track 15 : Jant_113
• Track 16 : BellaJr_96
• Track 17 : Aminay_105
• Track 18 : GAL1_80
• Track 19 : Footloose_16

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

The start number called the most often in the published annotations is 7, it was called in 13 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Burwell21_100, Dante_105, IrishSherpFalk_106, Juniper1_99, Llij_100, Mahavrat_99, Minnie_100, Phanphagia_110, Royals2015_109, Sandalphon_104, Shauna1_107, Whatsapiecost_100, WillSterrel_104,

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

• Jant_113,

Genes that do not have the "Most Annotated" start:
• Aminay_105, Anekin_96, Asapag_99, BENtherdunthat_102, BellaJr_96, Bhageatrice_4, Budski_107, ClubL_149, CosmicBrownie_94, DarwinJr_4, Footloose_16, Frickyeah_108, GAL1_80, Getalong_104, GiKK_61, Honk_47, Horus_104, IDyn_1, Leroy_104, LitninMcQueen_111, MUWow_99, Mapleville_88, Phrank15_101, SFuller_54, ShawBrad_109,

Summary by start number:

Start 3:
• Found in 1 of 39 (2.6%) 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: Honk_47 (EH),

Start 7:
• Found in 14 of 39 (35.9%) of genes in pham
• Manual Annotations of this start: 13 of 34
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Burwell21_100 (F1), Dante_105 (F1), IrishSherpFalk_106 (F1), Juniper1_99 (F1), Llij_100 (F1), Mahavrat_99 (F1), Minnie_100 (F1), Phanphagia_110 (F1), Royals2015_109 (F1), Sandalphon_104 (F1), Shauna1_107 (F1), Whatsapiecost_100 (F1), WillSterrel_104 (F1),

Start 8:
• Found in 1 of 39 (2.6%) 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: Aminay_105 (K7),

Start 9:
• Found in 5 of 39 (12.8%) of genes in pham
• Manual Annotations of this start: 4 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anekin_96 (AY), CosmicBrownie_94 (AY), MUWow_99 (AY), Mapleville_88 (AY), Phrank15_101 (AY),

Start 15:
• Found in 12 of 39 (30.8%) of genes in pham
• Manual Annotations of this start: 10 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Asapag_99 (DN1), BENtherdunthat_102 (DN1), Bhageatrice_4 (AY), Budski_107 (DN), DarwinJr_4 (AY), Frickyeah_108 (DN1), GAL1_80 (singleton), Getalong_104 (DN1), Horus_104 (DN1), Leroy_104 (DN1), LitninMcQueen_111 (DN1), ShawBrad_109 (DN1),

Start 17:
• Found in 1 of 39 (2.6%) 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: ClubL_149 (CQ1),

Start 20:
• Found in 1 of 39 (2.6%) 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: IDyn_1 (CR4),

Start 29:
• Found in 1 of 39 (2.6%) 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: Footloose_16 (singleton),

Start 31:
• Found in 14 of 39 (35.9%) of genes in pham
• No Manual Annotations of this start.
• Called 7.1% of time when present
• Phage (with cluster) where this start called: Jant_113 (F1),

Start 38:
• Found in 1 of 39 (2.6%) 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: GiKK_61 (CT),

Start 41:
• Found in 1 of 39 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BellaJr_96 (FN),

Start 46:
• Found in 1 of 39 (2.6%) 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: SFuller_54 (CF),

Summary by clusters:

There are 12 clusters represented in this pham: DN, F1, singleton, EH, CR4, CF, DN1, AY, K7, CQ1, FN, CT,

Info for manual annotations of cluster AY:
•Start number 9 was manually annotated 4 times for cluster AY.
•Start number 15 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster CF:
•Start number 46 was manually annotated 1 time for cluster CF.

Info for manual annotations of cluster CQ1:
•Start number 17 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CR4:

•Start number 20 was manually annotated 1 time for cluster CR4.

Info for manual annotations of cluster CT:
•Start number 38 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster DN:
•Start number 15 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 15 was manually annotated 7 times for cluster DN1.

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

Info for manual annotations of cluster F1:
•Start number 7 was manually annotated 13 times for cluster F1.

Info for manual annotations of cluster K7:
•Start number 8 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: Aminay_105 Start: 59595, Stop: 60371, Start Num: 8
Candidate Starts for Aminay_105:
(4, 59550), (5, 59559), (Start: 8 @59595 has 1 MA's), (18, 59664), (19, 59667), (26, 59718), (33, 59772), (44, 59844), (53, 59922), (61, 59955), (66, 59979), (72, 60003), (75, 60039), (76, 60072), (77, 60081), (87, 60156),

Gene: Anekin_96 Start: 52648, Stop: 53418, Start Num: 9
Candidate Starts for Anekin_96:
(6, 52636), (Start: 9 @52648 has 4 MA's), (22, 52750), (23, 52756), (37, 52849), (69, 53041), (79, 53155), (97, 53266), (116, 53365), (122, 53401),

Gene: Asapag_99 Start: 54319, Stop: 55062, Start Num: 15
Candidate Starts for Asapag_99:
(Start: 15 @54319 has 10 MA's), (72, 54697), (78, 54781), (89, 54859), (95, 54898), (98, 54913),

Gene: BENtherdunthat_102 Start: 54067, Stop: 54810, Start Num: 15
Candidate Starts for BENtherdunthat_102:
(Start: 15 @54067 has 10 MA's), (72, 54445), (78, 54529), (89, 54607), (95, 54646), (98, 54661),

Gene: BellaJr_96 Start: 52094, Stop: 52612, Start Num: 41
Candidate Starts for BellaJr_96:
(41, 52094), (43, 52109), (62, 52229), (83, 52394), (106, 52526), (108, 52559),

Gene: Bhageatrice_4 Start: 2128, Stop: 2829, Start Num: 15
Candidate Starts for Bhageatrice_4:
(14, 2113), (Start: 15 @2128 has 10 MA's), (21, 2173), (25, 2206), (58, 2419), (81, 2575), (101, 2689), (109, 2743), (112, 2758), (119, 2797),

Gene: Budski_107 Start: 55759, Stop: 56502, Start Num: 15
Candidate Starts for Budski_107:
(Start: 15 @55759 has 10 MA's), (72, 56137), (78, 56221), (89, 56299), (95, 56338), (98, 56353),

Gene: Burwell21_100 Start: 57289, Stop: 58032, Start Num: 7
Candidate Starts for Burwell21_100:
(Start: 7 @57289 has 13 MA's), (13, 57325), (31, 57460), (42, 57529), (51, 57616), (61, 57640), (71, 57673), (74, 57700), (82, 57784), (84, 57802), (94, 57859), (98, 57880), (107, 57922), (118, 58000), (123, 58021),

Gene: ClubL_149 Start: 79995, Stop: 80744, Start Num: 17
Candidate Starts for ClubL_149:
(11, 79950), (Start: 17 @79995 has 1 MA's), (39, 80154), (60, 80319), (68, 80361), (73, 80382), (80, 80490), (96, 80589), (105, 80619), (121, 80727), (122, 80730),

Gene: CosmicBrownie_94 Start: 50910, Stop: 51626, Start Num: 9
Candidate Starts for CosmicBrownie_94:
(6, 50898), (Start: 9 @50910 has 4 MA's), (79, 51411), (99, 51522),

Gene: Dante_105 Start: 58836, Stop: 59579, Start Num: 7
Candidate Starts for Dante_105:
(Start: 7 @58836 has 13 MA's), (13, 58872), (31, 59007), (42, 59076), (51, 59163), (71, 59220), (74, 59247), (84, 59349), (94, 59406), (98, 59427), (107, 59469), (118, 59547), (123, 59568),

Gene: DarwinJr_4 Start: 2066, Stop: 2767, Start Num: 15
Candidate Starts for DarwinJr_4:
(14, 2051), (Start: 15 @2066 has 10 MA's), (21, 2111), (25, 2144), (58, 2357), (81, 2513), (101, 2627), (109, 2681), (119, 2735),

Gene: Footloose_16 Start: 9392, Stop: 9988, Start Num: 29
Candidate Starts for Footloose_16:
(24, 9350), (Start: 29 @9392 has 1 MA's), (64, 9596), (65, 9602), (105, 9872),

Gene: Frickyeah_108 Start: 54593, Stop: 55336, Start Num: 15
Candidate Starts for Frickyeah_108:
(Start: 15 @54593 has 10 MA's), (72, 54971), (78, 55055), (89, 55133), (95, 55172), (98, 55187),

Gene: GAL1_80 Start: 48654, Stop: 49394, Start Num: 15
Candidate Starts for GAL1_80:
(Start: 15 @48654 has 10 MA's), (27, 48753), (47, 48882), (50, 48897), (59, 48960), (86, 49161), (90, 49179), (98, 49230), (117, 49347), (124, 49380),

Gene: Getalong_104 Start: 55414, Stop: 56157, Start Num: 15
Candidate Starts for Getalong_104:
(Start: 15 @55414 has 10 MA's), (72, 55792), (78, 55876), (89, 55954), (95, 55993), (98, 56008),

Gene: GiKK_61 Start: 40561, Stop: 39992, Start Num: 38
Candidate Starts for GiKK_61:
(Start: 38 @40561 has 1 MA's), (56, 40435), (103, 40135), (104, 40132), (107, 40108), (114, 40060), (122, 40015),

Gene: Honk_47 Start: 31487, Stop: 32398, Start Num: 3
Candidate Starts for Honk_47:

(2, 31469), (Start: 3 @31487 has 1 MA's), (10, 31553), (16, 31595), (34, 31727), (35, 31736), (40, 31772), (49, 31835), (54, 31904), (57, 31919), (87, 32141), (93, 32177),

Gene: Horus_104 Start: 54868, Stop: 55611, Start Num: 15
Candidate Starts for Horus_104:
(Start: 15 @54868 has 10 MA's), (72, 55246), (78, 55330), (89, 55408), (95, 55447), (98, 55462),

Gene: IDyn_1 Start: 79, Stop: 786, Start Num: 20
Candidate Starts for IDyn_1:
(12, 16), (Start: 20 @79 has 1 MA's), (25, 115), (30, 148), (36, 181), (88, 568), (92, 586), (120, 754),

Gene: IrishSherpFalk_106 Start: 57759, Stop: 58502, Start Num: 7
Candidate Starts for IrishSherpFalk_106:
(Start: 7 @57759 has 13 MA's), (13, 57795), (31, 57930), (42, 57999), (51, 58086), (71, 58143), (74, 58170), (84, 58272), (94, 58329), (98, 58350), (107, 58392), (118, 58470), (123, 58491),

Gene: Jant_113 Start: 57191, Stop: 57763, Start Num: 31
Candidate Starts for Jant_113:
(Start: 7 @57020 has 13 MA's), (13, 57056), (31, 57191), (42, 57260), (51, 57347), (61, 57371), (71, 57404), (74, 57431), (82, 57515), (84, 57533), (94, 57590), (98, 57611), (107, 57653), (118, 57731), (123, 57752),

Gene: Juniper1_99 Start: 56460, Stop: 57203, Start Num: 7
Candidate Starts for Juniper1_99:
(Start: 7 @56460 has 13 MA's), (13, 56496), (31, 56631), (42, 56700), (51, 56787), (71, 56844), (74, 56871), (84, 56973), (94, 57030), (98, 57051), (107, 57093), (118, 57171), (123, 57192),

Gene: Leroy_104 Start: 53063, Stop: 53806, Start Num: 15
Candidate Starts for Leroy_104:
(Start: 15 @53063 has 10 MA's), (72, 53441), (78, 53525), (89, 53603), (95, 53642), (98, 53657),

Gene: LitninMcQueen_111 Start: 56492, Stop: 57235, Start Num: 15
Candidate Starts for LitninMcQueen_111:
(Start: 15 @56492 has 10 MA's), (72, 56870), (78, 56954), (89, 57032), (95, 57071), (98, 57086),

Gene: Llij_100 Start: 56053, Stop: 56796, Start Num: 7
Candidate Starts for Llij_100:
(Start: 7 @56053 has 13 MA's), (13, 56089), (31, 56224), (42, 56293), (51, 56380), (61, 56404), (71, 56437), (74, 56464), (82, 56548), (84, 56566), (94, 56623), (98, 56644), (107, 56686), (118, 56764), (123, 56785),

Gene: MUWow_99 Start: 54213, Stop: 54983, Start Num: 9
Candidate Starts for MUWow_99:
(6, 54201), (Start: 9 @54213 has 4 MA's), (22, 54315), (23, 54321), (37, 54414), (69, 54606), (79, 54720), (97, 54831), (116, 54930), (122, 54966),

Gene: Mahavrat_99 Start: 55132, Stop: 55875, Start Num: 7
Candidate Starts for Mahavrat_99:
(Start: 7 @55132 has 13 MA's), (13, 55168), (31, 55303), (42, 55372), (51, 55459), (71, 55516), (74, 55543), (84, 55645), (94, 55702), (98, 55723), (107, 55765), (118, 55843), (123, 55864),

Gene: Mapleville_88 Start: 50610, Stop: 51389, Start Num: 9
Candidate Starts for Mapleville_88:

(6, 50598), (Start: 9 @50610 has 4 MA's), (28, 50754), (48, 50892), (55, 50958), (67, 51009), (79, 51126), (97, 51237), (100, 51243), (116, 51336),

Gene: Minnie_100 Start: 58451, Stop: 59200, Start Num: 7
Candidate Starts for Minnie_100:
(Start: 7 @58451 has 13 MA's), (13, 58487), (31, 58622), (42, 58691), (51, 58778), (71, 58835), (74, 58862), (84, 58964), (94, 59021), (98, 59042), (111, 59123), (113, 59129), (115, 59138),

Gene: Phanphagia_110 Start: 58890, Stop: 59633, Start Num: 7
Candidate Starts for Phanphagia_110:
(Start: 7 @58890 has 13 MA's), (13, 58926), (31, 59061), (42, 59130), (51, 59217), (61, 59241), (71, 59274), (74, 59301), (82, 59385), (84, 59403), (94, 59460), (98, 59481), (107, 59523), (118, 59601), (123, 59622),

Gene: Phrank15_101 Start: 52549, Stop: 53265, Start Num: 9
Candidate Starts for Phrank15_101:
(6, 52537), (Start: 9 @52549 has 4 MA's), (79, 53050), (99, 53161),

Gene: Royals2015_109 Start: 56541, Stop: 57284, Start Num: 7
Candidate Starts for Royals2015_109:
(Start: 7 @56541 has 13 MA's), (13, 56577), (31, 56712), (42, 56781), (51, 56868), (71, 56925), (74, 56952), (84, 57054), (94, 57111), (98, 57132), (107, 57174), (118, 57252), (123, 57273),

Gene: SFuller_54 Start: 38645, Stop: 39211, Start Num: 46
Candidate Starts for SFuller_54:
(1, 38165), (32, 38537), (45, 38639), (Start: 46 @38645 has 1 MA's), (52, 38726), (63, 38777), (70, 38807), (85, 38966), (91, 38993), (102, 39056), (110, 39116), (125, 39206),

Gene: Sandalphon_104 Start: 58724, Stop: 59467, Start Num: 7
Candidate Starts for Sandalphon_104:
(Start: 7 @58724 has 13 MA's), (13, 58760), (31, 58895), (42, 58964), (51, 59051), (71, 59108), (74, 59135), (84, 59237), (94, 59294), (98, 59315), (107, 59357), (118, 59435), (123, 59456),

Gene: Shauna1_107 Start: 58506, Stop: 59249, Start Num: 7
Candidate Starts for Shauna1_107:
(Start: 7 @58506 has 13 MA's), (13, 58542), (31, 58677), (42, 58746), (51, 58833), (61, 58857), (71, 58890), (74, 58917), (82, 59001), (84, 59019), (94, 59076), (98, 59097), (107, 59139), (118, 59217), (123, 59238),

Gene: ShawBrad_109 Start: 55126, Stop: 55869, Start Num: 15
Candidate Starts for ShawBrad_109:
(Start: 15 @55126 has 10 MA's), (72, 55504), (78, 55588), (89, 55666), (95, 55705), (98, 55720),

Gene: Whatsapiecost_100 Start: 52789, Stop: 53532, Start Num: 7
Candidate Starts for Whatsapiecost_100:
(Start: 7 @52789 has 13 MA's), (13, 52825), (31, 52960), (42, 53029), (51, 53116), (61, 53140), (71, 53173), (74, 53200), (82, 53284), (84, 53302), (94, 53359), (98, 53380), (107, 53422), (118, 53500), (123, 53521),

Gene: WillSterrel_104 Start: 57792, Stop: 58535, Start Num: 7
Candidate Starts for WillSterrel_104:
(Start: 7 @57792 has 13 MA's), (13, 57828), (31, 57963), (42, 58032), (51, 58119), (71, 58176), (74, 58203), (84, 58305), (94, 58362), (98, 58383), (107, 58425), (118, 58503), (123, 58524),