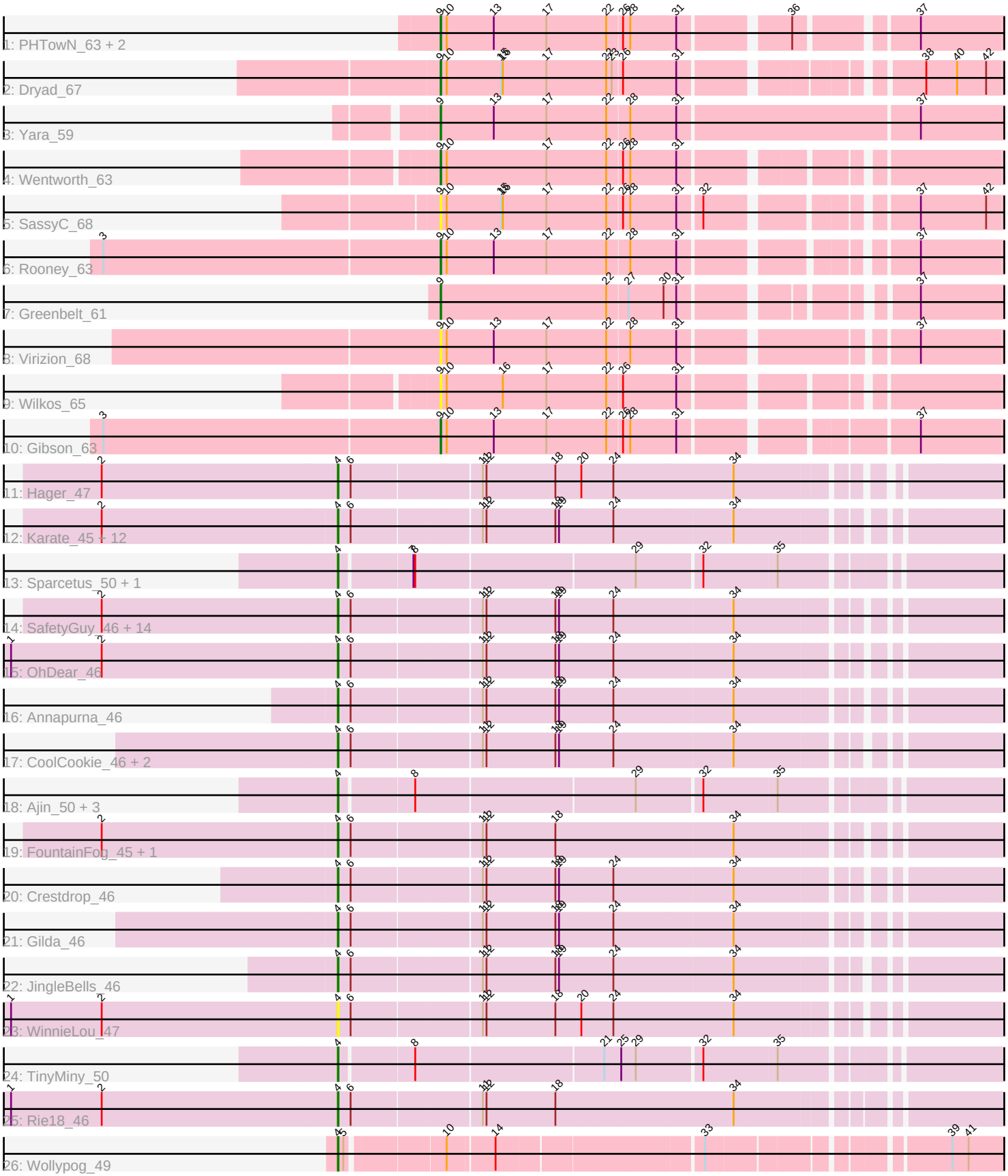
Pham 347634


1: PHTowN_63 + 2
2: Dryad_67
3: Yara_59
4: Wentworth_63
5: SassyC_68
6: Rooney_63
7: Greenbelt_61
8: Virizion_68
9: Wilkos_65
10: Gibson_63
11: Hager_47
12: Karate_45 + 12
13: Sparcetus_50 + 1
14: SafetyGuy_46 + 14
15: OhDear_46
16: Annapurna_46
17: CoolCookie_46 + 2
18: Ajin_50 + 3
19: FountainFog_45 + 1
20: Crestdrop_46
21: Gilda_46
22: JingleBells_46
23: WinnieLou_47
24: TinyMiny_50
25: Rie18_46
26: Wollypog_49

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 347634 Report

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

Pham number 347634 has 61 members, 7 are drafts.

Phages represented in each track:
• Track 1 : PHTowN_63, Lizz_63, ShakeNBake_63
• Track 2 : Dryad_67
• Track 3 : Yara_59
• Track 4 : Wentworth_63
• Track 5 : SassyC_68
• Track 6 : Rooney_63
• Track 7 : Greenbelt_61
• Track 8 : Virizion_68
• Track 9 : Wilkos_65
• Track 10 : Gibson_63
• Track 11 : Hager_47
• Track 12 : Karate_45, Aesir_45, Erudite_45, Chivey_46, JDawG_45, DannyDe_46, Snakehole_46, Dauntless_45, MortySmith_44, Haunter_46, Hiddenleaf_46, Tedro_46, FreddieHg_46
• Track 13 : Sparcetus_50, RikSengupta_50
• Track 14 : SafetyGuy_46, Krampus_46, Pharpay_46, Anakin_46, Tiggy93_46, Cybele_46, Rachella_46, Poultress_45, Neptune_46, OverHedge_46, NarutoRun_46, SilentWarrior_46, Kate_47, AnnaSerena_46, Artiphact_46
• Track 15 : OhDear_46
• Track 16 : Annapurna_46
• Track 17 : CoolCookie_46, Potty_46, PhunaPhoke_46
• Track 18 : Ajin_50, Kors_50, Bramble_50, LordBart_50
• Track 19 : FountainFog_45, Tongui_46
• Track 20 : Crestdrop_46
• Track 21 : Gilda_46
• Track 22 : JingleBells_46
• Track 23 : WinnieLou_47
• Track 24 : TinyMiny_50
• Track 25 : Rie18_46
• Track 26 : Wollypog_49

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 45 of the 54 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aesir_45, Ajin_50, Anakin_46, AnnaSerena_46, Annapurna_46, Artiphact_46, Bramble_50, Chivey_46, CoolCookie_46, Crestdrop_46, Cybele_46, DannyDe_46, Dauntless_45, Erudite_45, FountainFog_45, FreddieHg_46, Gilda_46, Hager_47, Haunter_46, Hiddenleaf_46, JDawG_45, JingleBells_46, Karate_45, Kate_47, Kors_50, Krampus_46, LordBart_50, MortySmith_44, NarutoRun_46, Neptune_46, OhDear_46, OverHedge_46, Pharpay_46, PhunaPhoke_46, Potty_46, Poultress_45, Rachella_46, Rie18_46, RikSengupta_50, SafetyGuy_46, SilentWarrior_46, Snakehole_46, Sparcetus_50, Tedro_46, Tiggy93_46, TinyMiny_50, Tongui_46, WinnieLou_47, Wollypog_49,

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

Genes that do not have the "Most Annotated" start:
• Dryad_67, Gibson_63, Greenbelt_61, Lizz_63, PHTowN_63, Rooney_63, SassyC_68, ShakeNBake_63, Virizion_68, Wentworth_63, Wilkos_65, Yara_59,

Summary by start number:

Start 4:
• Found in 49 of 61 (80.3%) of genes in pham
• Manual Annotations of this start: 45 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aesir_45 (EF), Ajin_50 (EF), Anakin_46 (EF), AnnaSerena_46 (EF), Annapurna_46 (EF), Artiphact_46 (EF), Bramble_50 (EF), Chivey_46 (EF), CoolCookie_46 (EF), Crestdrop_46 (EF), Cybele_46 (EF), DannyDe_46 (EF), Dauntless_45 (EF), Erudite_45 (EF), FountainFog_45 (EF), FreddieHg_46 (EF), Gilda_46 (EF), Hager_47 (EF), Haunter_46 (EF), Hiddenleaf_46 (EF), JDawG_45 (EF), JingleBells_46 (EF), Karate_45 (EF), Kate_47 (EF), Kors_50 (EF), Krampus_46 (EF), LordBart_50 (EF), MortySmith_44 (EF), NarutoRun_46 (EF), Neptune_46 (EF), OhDear_46 (EF), OverHedge_46 (EF), Pharpay_46 (EF), PhunaPhoke_46 (EF), Potty_46 (EF), Poultress_45 (EF), Rachella_46 (EF), Rie18_46 (EF), RikSengupta_50 (EF), SafetyGuy_46 (EF), SilentWarrior_46 (EF), Snakehole_46 (EF), Sparcetus_50 (EF), Tedro_46 (EF), Tiggy93_46 (EF), TinyMiny_50 (EF), Tongui_46 (EF), WinnieLou_47 (EF), Wollypog_49 (singleton),

Start 9:
• Found in 12 of 61 (19.7%) of genes in pham
• Manual Annotations of this start: 9 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dryad_67 (BN), Gibson_63 (BN), Greenbelt_61 (BN), Lizz_63 (BN), PHTowN_63 (BN), Rooney_63 (BN), SassyC_68 (BN), ShakeNBake_63 (BN), Virizion_68 (BN), Wentworth_63 (BN), Wilkos_65 (BN), Yara_59 (BN),

Summary by clusters:

There are 3 clusters represented in this pham: BN, EF, singleton,

Info for manual annotations of cluster BN:
•Start number 9 was manually annotated 9 times for cluster BN.

Info for manual annotations of cluster EF:
•Start number 4 was manually annotated 44 times for cluster EF.

Gene Information:

Gene: Aesir_45 Start: 30636, Stop: 31667, Start Num: 4
Candidate Starts for Aesir_45:
(2, 30252), (Start: 4 @30636 has 45 MA's), (6, 30657), (11, 30861), (12, 30867), (18, 30981), (19, 30987), (24, 31074), (34, 31266),

Gene: Ajin_50 Start: 31955, Stop: 32980, Start Num: 4
Candidate Starts for Ajin_50:
(Start: 4 @31955 has 45 MA's), (8, 32069), (29, 32417), (32, 32519), (35, 32636),

Gene: Anakin_46 Start: 30992, Stop: 32026, Start Num: 4
Candidate Starts for Anakin_46:
(2, 30605), (Start: 4 @30992 has 45 MA's), (6, 31013), (11, 31217), (12, 31223), (18, 31337), (19, 31343), (24, 31430), (34, 31622),

Gene: AnnaSerena_46 Start: 31027, Stop: 32061, Start Num: 4
Candidate Starts for AnnaSerena_46:
(2, 30640), (Start: 4 @31027 has 45 MA's), (6, 31048), (11, 31252), (12, 31258), (18, 31372), (19, 31378), (24, 31465), (34, 31657),

Gene: Annapurna_46 Start: 30265, Stop: 31296, Start Num: 4
Candidate Starts for Annapurna_46:
(Start: 4 @30265 has 45 MA's), (6, 30286), (11, 30490), (12, 30496), (18, 30610), (19, 30616), (24, 30703), (34, 30895),

Gene: Artiphact_46 Start: 31016, Stop: 32050, Start Num: 4
Candidate Starts for Artiphact_46:
(2, 30629), (Start: 4 @31016 has 45 MA's), (6, 31037), (11, 31241), (12, 31247), (18, 31361), (19, 31367), (24, 31454), (34, 31646),

Gene: Bramble_50 Start: 32004, Stop: 33029, Start Num: 4
Candidate Starts for Bramble_50:
(Start: 4 @32004 has 45 MA's), (8, 32118), (29, 32466), (32, 32568), (35, 32685),

Gene: Chivey_46 Start: 30214, Stop: 31257, Start Num: 4
Candidate Starts for Chivey_46:
(2, 29830), (Start: 4 @30214 has 45 MA's), (6, 30235), (11, 30439), (12, 30445), (18, 30559), (19, 30565), (24, 30652), (34, 30844),

Gene: CoolCookie_46 Start: 31022, Stop: 32053, Start Num: 4
Candidate Starts for CoolCookie_46:
(Start: 4 @31022 has 45 MA's), (6, 31043), (11, 31247), (12, 31253), (18, 31367), (19, 31373), (24, 31460), (34, 31652),

Gene: Crestdrop_46 Start: 30245, Stop: 31276, Start Num: 4
Candidate Starts for Crestdrop_46:
(Start: 4 @30245 has 45 MA's), (6, 30266), (11, 30470), (12, 30476), (18, 30590), (19, 30596), (24, 30683), (34, 30875),

Gene: Cybele_46 Start: 30992, Stop: 32026, Start Num: 4
Candidate Starts for Cybele_46:
(2, 30605), (Start: 4 @30992 has 45 MA's), (6, 31013), (11, 31217), (12, 31223), (18, 31337), (19, 31343), (24, 31430), (34, 31622),

Gene: DannyDe_46 Start: 30220, Stop: 31251, Start Num: 4
Candidate Starts for DannyDe_46:
(2, 29836), (Start: 4 @30220 has 45 MA's), (6, 30241), (11, 30445), (12, 30451), (18, 30565), (19, 30571), (24, 30658), (34, 30850),

Gene: Dauntless_45 Start: 30572, Stop: 31603, Start Num: 4
Candidate Starts for Dauntless_45:
(2, 30188), (Start: 4 @30572 has 45 MA's), (6, 30593), (11, 30797), (12, 30803), (18, 30917), (19, 30923), (24, 31010), (34, 31202),

Gene: Dryad_67 Start: 46108, Stop: 45242, Start Num: 9
Candidate Starts for Dryad_67:
(Start: 9 @46108 has 9 MA's), (10, 46099), (15, 46009), (16, 46006), (17, 45934), (22, 45835), (23, 45826), (26, 45811), (31, 45724), (38, 45391), (40, 45340), (42, 45292),

Gene: Erudite_45 Start: 30572, Stop: 31603, Start Num: 4
Candidate Starts for Erudite_45:
(2, 30188), (Start: 4 @30572 has 45 MA's), (6, 30593), (11, 30797), (12, 30803), (18, 30917), (19, 30923), (24, 31010), (34, 31202),

Gene: FountainFog_45 Start: 30256, Stop: 31287, Start Num: 4
Candidate Starts for FountainFog_45:
(2, 29872), (Start: 4 @30256 has 45 MA's), (6, 30277), (11, 30481), (12, 30487), (18, 30601), (34, 30886),

Gene: FreddieHg_46 Start: 30230, Stop: 31267, Start Num: 4
Candidate Starts for FreddieHg_46:
(2, 29846), (Start: 4 @30230 has 45 MA's), (6, 30251), (11, 30455), (12, 30461), (18, 30575), (19, 30581), (24, 30668), (34, 30860),

Gene: Gibson_63 Start: 45374, Stop: 44490, Start Num: 9
Candidate Starts for Gibson_63:
(3, 45923), (Start: 9 @45374 has 9 MA's), (10, 45365), (13, 45287), (17, 45200), (22, 45101), (26, 45077), (28, 45065), (31, 44990), (37, 44648),

Gene: Gilda_46 Start: 31013, Stop: 32047, Start Num: 4
Candidate Starts for Gilda_46:
(Start: 4 @31013 has 45 MA's), (6, 31034), (11, 31238), (12, 31244), (18, 31358), (19, 31364), (24, 31451), (34, 31643),

Gene: Greenbelt_61 Start: 41479, Stop: 40616, Start Num: 9
Candidate Starts for Greenbelt_61:
(Start: 9 @41479 has 9 MA's), (22, 41206), (27, 41173), (30, 41116), (31, 41095), (37, 40777),

Gene: Hager_47 Start: 30441, Stop: 31469, Start Num: 4
Candidate Starts for Hager_47:
(2, 30054), (Start: 4 @30441 has 45 MA's), (6, 30462), (11, 30666), (12, 30672), (18, 30786), (20, 30828), (24, 30879), (34, 31074),

Gene: Haunter_46 Start: 30396, Stop: 31430, Start Num: 4
Candidate Starts for Haunter_46:
(2, 30012), (Start: 4 @30396 has 45 MA's), (6, 30417), (11, 30621), (12, 30627), (18, 30741), (19, 30747), (24, 30834), (34, 31026),

Gene: Hiddenleaf_46 Start: 30214, Stop: 31257, Start Num: 4
Candidate Starts for Hiddenleaf_46:
(2, 29830), (Start: 4 @30214 has 45 MA's), (6, 30235), (11, 30439), (12, 30445), (18, 30559), (19, 30565), (24, 30652), (34, 30844),

Gene: JDawG_45 Start: 30631, Stop: 31662, Start Num: 4
Candidate Starts for JDawG_45:
(2, 30247), (Start: 4 @30631 has 45 MA's), (6, 30652), (11, 30856), (12, 30862), (18, 30976), (19, 30982), (24, 31069), (34, 31261),

Gene: JingleBells_46 Start: 30365, Stop: 31393, Start Num: 4
Candidate Starts for JingleBells_46:
(Start: 4 @30365 has 45 MA's), (6, 30386), (11, 30590), (12, 30596), (18, 30710), (19, 30716), (24, 30803), (34, 30995),

Gene: Karate_45 Start: 31014, Stop: 32048, Start Num: 4
Candidate Starts for Karate_45:
(2, 30630), (Start: 4 @31014 has 45 MA's), (6, 31035), (11, 31239), (12, 31245), (18, 31359), (19, 31365), (24, 31452), (34, 31644),

Gene: Kate_47 Start: 31024, Stop: 32058, Start Num: 4
Candidate Starts for Kate_47:
(2, 30637), (Start: 4 @31024 has 45 MA's), (6, 31045), (11, 31249), (12, 31255), (18, 31369), (19, 31375), (24, 31462), (34, 31654),

Gene: Kors_50 Start: 32032, Stop: 33069, Start Num: 4
Candidate Starts for Kors_50:
(Start: 4 @32032 has 45 MA's), (8, 32146), (29, 32494), (32, 32596), (35, 32713),

Gene: Krampus_46 Start: 31024, Stop: 32061, Start Num: 4
Candidate Starts for Krampus_46:
(2, 30637), (Start: 4 @31024 has 45 MA's), (6, 31045), (11, 31249), (12, 31255), (18, 31369), (19, 31375), (24, 31462), (34, 31654),

Gene: Lizz_63 Start: 45200, Stop: 44328, Start Num: 9
Candidate Starts for Lizz_63:
(Start: 9 @45200 has 9 MA's), (10, 45191), (13, 45113), (17, 45026), (22, 44927), (26, 44903), (28, 44891), (31, 44816), (36, 44657), (37, 44486),

Gene: LordBart_50 Start: 31941, Stop: 32966, Start Num: 4
Candidate Starts for LordBart_50:
(Start: 4 @31941 has 45 MA's), (8, 32055), (29, 32403), (32, 32505), (35, 32622),

Gene: MortySmith_44 Start: 30049, Stop: 31080, Start Num: 4
Candidate Starts for MortySmith_44:
(2, 29665), (Start: 4 @30049 has 45 MA's), (6, 30070), (11, 30274), (12, 30280), (18, 30394), (19, 30400), (24, 30487), (34, 30679),

Gene: NarutoRun_46 Start: 30992, Stop: 32026, Start Num: 4
Candidate Starts for NarutoRun_46:
(2, 30605), (Start: 4 @30992 has 45 MA's), (6, 31013), (11, 31217), (12, 31223), (18, 31337), (19, 31343), (24, 31430), (34, 31622),

Gene: Neptune_46 Start: 30992, Stop: 32026, Start Num: 4
Candidate Starts for Neptune_46:
(2, 30605), (Start: 4 @30992 has 45 MA's), (6, 31013), (11, 31217), (12, 31223), (18, 31337), (19, 31343), (24, 31430), (34, 31622),

Gene: OhDear_46 Start: 30990, Stop: 32024, Start Num: 4
Candidate Starts for OhDear_46:
(1, 30453), (2, 30603), (Start: 4 @30990 has 45 MA's), (6, 31011), (11, 31215), (12, 31221), (18, 31335), (19, 31341), (24, 31428), (34, 31620),

Gene: OverHedge_46 Start: 30982, Stop: 32016, Start Num: 4
Candidate Starts for OverHedge_46:
(2, 30595), (Start: 4 @30982 has 45 MA's), (6, 31003), (11, 31207), (12, 31213), (18, 31327), (19, 31333), (24, 31420), (34, 31612),

Gene: PHTowN_63 Start: 45198, Stop: 44326, Start Num: 9
Candidate Starts for PHTowN_63:
(Start: 9 @45198 has 9 MA's), (10, 45189), (13, 45111), (17, 45024), (22, 44925), (26, 44901), (28, 44889), (31, 44814), (36, 44655), (37, 44484),

Gene: Pharpay_46 Start: 31037, Stop: 32071, Start Num: 4
Candidate Starts for Pharpay_46:
(2, 30650), (Start: 4 @31037 has 45 MA's), (6, 31058), (11, 31262), (12, 31268), (18, 31382), (19, 31388), (24, 31475), (34, 31667),

Gene: PhunaPhoke_46 Start: 31010, Stop: 32041, Start Num: 4
Candidate Starts for PhunaPhoke_46:
(Start: 4 @31010 has 45 MA's), (6, 31031), (11, 31235), (12, 31241), (18, 31355), (19, 31361), (24, 31448), (34, 31640),

Gene: Potty_46 Start: 31015, Stop: 32046, Start Num: 4
Candidate Starts for Potty_46:
(Start: 4 @31015 has 45 MA's), (6, 31036), (11, 31240), (12, 31246), (18, 31360), (19, 31366), (24, 31453), (34, 31645),

Gene: Poultress_45 Start: 31330, Stop: 32364, Start Num: 4
Candidate Starts for Poultress_45:
(2, 30943), (Start: 4 @31330 has 45 MA's), (6, 31351), (11, 31555), (12, 31561), (18, 31675), (19, 31681), (24, 31768), (34, 31960),

Gene: Rachella_46 Start: 31018, Stop: 32052, Start Num: 4
Candidate Starts for Rachella_46:

(2, 30631), (Start: 4 @31018 has 45 MA's), (6, 31039), (11, 31243), (12, 31249), (18, 31363), (19, 31369), (24, 31456), (34, 31648),

Gene: Rie18_46 Start: 30512, Stop: 31552, Start Num: 4
Candidate Starts for Rie18_46:
(1, 29978), (2, 30128), (Start: 4 @30512 has 45 MA's), (6, 30533), (11, 30737), (12, 30743), (18, 30857), (34, 31145),

Gene: RikSengupta_50 Start: 32069, Stop: 33094, Start Num: 4
Candidate Starts for RikSengupta_50:
(Start: 4 @32069 has 45 MA's), (7, 32180), (8, 32183), (29, 32531), (32, 32633), (35, 32750),

Gene: Rooney_63 Start: 45350, Stop: 44487, Start Num: 9
Candidate Starts for Rooney_63:
(3, 45899), (Start: 9 @45350 has 9 MA's), (10, 45341), (13, 45263), (17, 45176), (22, 45077), (28, 45041), (31, 44966), (37, 44645),

Gene: SafetyGuy_46 Start: 30998, Stop: 32032, Start Num: 4
Candidate Starts for SafetyGuy_46:
(2, 30611), (Start: 4 @30998 has 45 MA's), (6, 31019), (11, 31223), (12, 31229), (18, 31343), (19, 31349), (24, 31436), (34, 31628),

Gene: SassyC_68 Start: 46281, Stop: 45415, Start Num: 9
Candidate Starts for SassyC_68:
(Start: 9 @46281 has 9 MA's), (10, 46272), (15, 46182), (16, 46179), (17, 46107), (22, 46008), (26, 45984), (28, 45972), (31, 45897), (32, 45861), (37, 45573), (42, 45465),

Gene: ShakeNBake_63 Start: 45225, Stop: 44344, Start Num: 9
Candidate Starts for ShakeNBake_63:
(Start: 9 @45225 has 9 MA's), (10, 45216), (13, 45138), (17, 45051), (22, 44952), (26, 44928), (28, 44916), (31, 44841), (36, 44682), (37, 44502),

Gene: SilentWarrior_46 Start: 30230, Stop: 31261, Start Num: 4
Candidate Starts for SilentWarrior_46:
(2, 29843), (Start: 4 @30230 has 45 MA's), (6, 30251), (11, 30455), (12, 30461), (18, 30575), (19, 30581), (24, 30668), (34, 30860),

Gene: Snakehole_46 Start: 30192, Stop: 31235, Start Num: 4
Candidate Starts for Snakehole_46:
(2, 29808), (Start: 4 @30192 has 45 MA's), (6, 30213), (11, 30417), (12, 30423), (18, 30537), (19, 30543), (24, 30630), (34, 30822),

Gene: Sparcetus_50 Start: 31946, Stop: 32971, Start Num: 4
Candidate Starts for Sparcetus_50:
(Start: 4 @31946 has 45 MA's), (7, 32057), (8, 32060), (29, 32408), (32, 32510), (35, 32627),

Gene: Tedro_46 Start: 30446, Stop: 31486, Start Num: 4
Candidate Starts for Tedro_46:
(2, 30062), (Start: 4 @30446 has 45 MA's), (6, 30467), (11, 30671), (12, 30677), (18, 30791), (19, 30797), (24, 30884), (34, 31076),

Gene: Tiggy93_46 Start: 31021, Stop: 32052, Start Num: 4
Candidate Starts for Tiggy93_46:

(2, 30634), (Start: 4 @31021 has 45 MA's), (6, 31042), (11, 31246), (12, 31252), (18, 31366), (19, 31372), (24, 31459), (34, 31651),

Gene: TinyMiny_50 Start: 31967, Stop: 32992, Start Num: 4
Candidate Starts for TinyMiny_50:
(Start: 4 @31967 has 45 MA's), (8, 32081), (21, 32378), (25, 32405), (29, 32429), (32, 32531), (35, 32648),

Gene: Tongui_46 Start: 30566, Stop: 31612, Start Num: 4
Candidate Starts for Tongui_46:
(2, 30182), (Start: 4 @30566 has 45 MA's), (6, 30587), (11, 30791), (12, 30797), (18, 30911), (34, 31199),

Gene: Virizion_68 Start: 45570, Stop: 44686, Start Num: 9
Candidate Starts for Virizion_68:
(Start: 9 @45570 has 9 MA's), (10, 45561), (13, 45483), (17, 45396), (22, 45297), (28, 45261), (31, 45186), (37, 44844),

Gene: Wentworth_63 Start: 45342, Stop: 44485, Start Num: 9
Candidate Starts for Wentworth_63:
(Start: 9 @45342 has 9 MA's), (10, 45333), (17, 45168), (22, 45069), (26, 45045), (28, 45033), (31, 44958),

Gene: Wilkos_65 Start: 45498, Stop: 44635, Start Num: 9
Candidate Starts for Wilkos_65:
(Start: 9 @45498 has 9 MA's), (10, 45489), (16, 45396), (17, 45324), (22, 45225), (26, 45201), (31, 45114),

Gene: WinnieLou_47 Start: 30564, Stop: 31598, Start Num: 4
Candidate Starts for WinnieLou_47:
(1, 30027), (2, 30177), (Start: 4 @30564 has 45 MA's), (6, 30585), (11, 30789), (12, 30795), (18, 30909), (20, 30951), (24, 31002), (34, 31197),

Gene: Wollypog_49 Start: 35619, Stop: 36602, Start Num: 4
Candidate Starts for Wollypog_49:
(Start: 4 @35619 has 45 MA's), (5, 35628), (10, 35772), (14, 35844), (33, 36162), (39, 36501), (41, 36528),

Gene: Yara_59 Start: 44209, Stop: 43277, Start Num: 9
Candidate Starts for Yara_59:
(Start: 9 @44209 has 9 MA's), (13, 44122), (17, 44035), (22, 43936), (28, 43900), (31, 43825), (37, 43438),