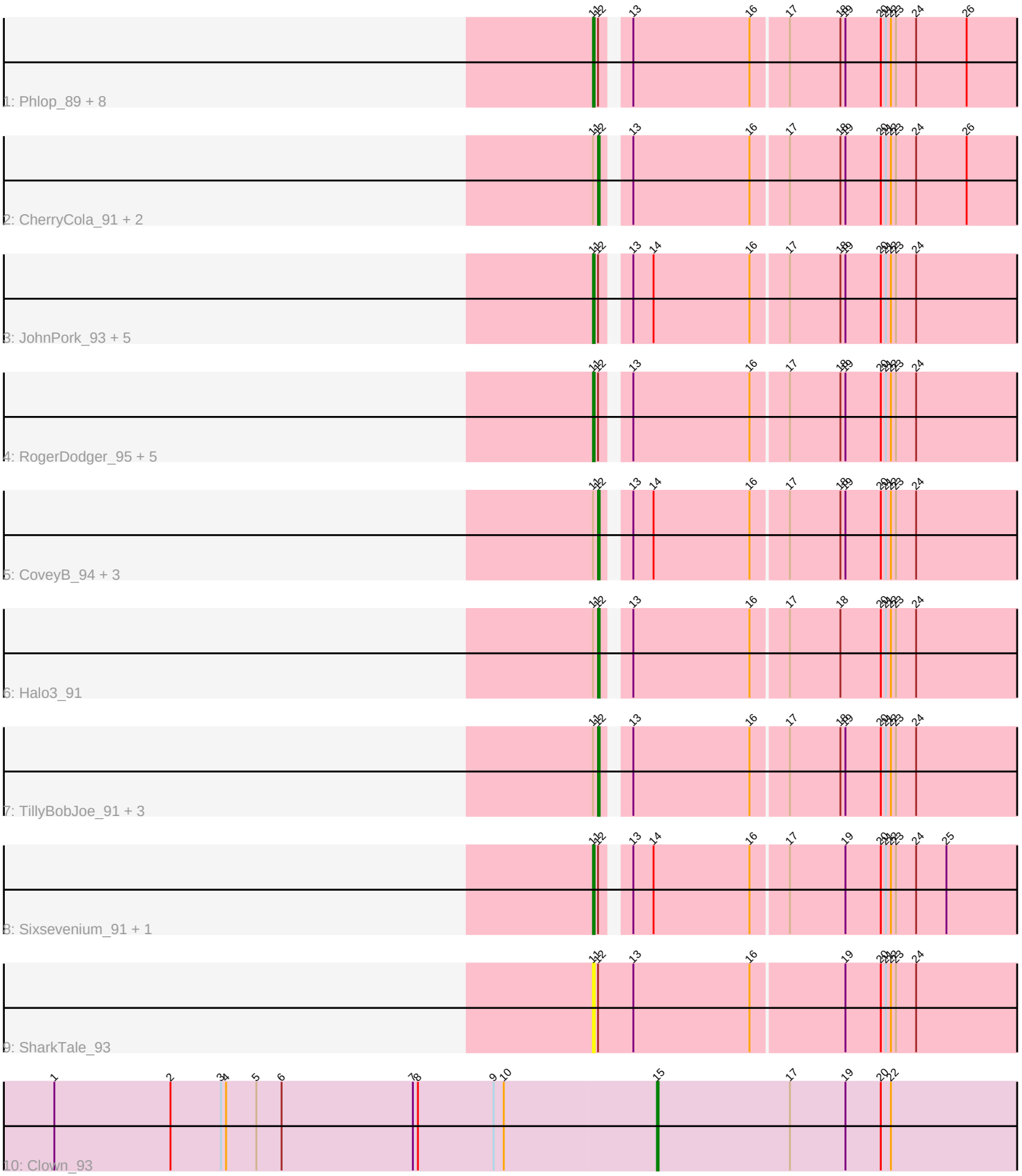
Pham 342354


1: Phlop_89 + 8
2: CherryCola_91 + 2
3: JohnPork_93 + 5
4: RogerDodger_95 + 5
5: CoveyB_94 + 3
6: Halo3_91
7: TillyBobJoe_91 + 3
8: Sixsevenium_91 + 1
9: SharkTale_93
10: Clown_93

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 342354 Report

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

Pham number 342354 has 37 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Phlop_89, Gezellig_88, Sendy_94, Arri_92, Shinji_91, Egi03_90, Fireball_95, Wizard_87, Valary_93
• Track 2 : CherryCola_91, PullumCavea_90, KimmyK_90
• Track 3 : JohnPork_93, Portcullis_92, Nubi_95, Mutzi_92, Danyall_93, YungMoney_92
• Track 4 : RogerDodger_95, Salvador_92, Evamon_92, SmokingBunny_93, Togo_92, Twister6_91
• Track 5 : CoveyB_94, PinkCoffee_94, ClamChowder_95, Barb_96
• Track 6 : Halo3_91
• Track 7 : TillyBobJoe_91, VanDeWege_94, Jambalaya_89, Savbucketdawg_87
• Track 8 : Sixsevenium_91, Bakery_94
• Track 9 : SharkTale_93
• Track 10 : Clown_93

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

The start number called the most often in the published annotations is 11, it was called in 19 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arri_92, Bakery_94, Danyall_93, Egi03_90, Evamon_92, Fireball_95, Gezellig_88, JohnPork_93, Mutzi_92, Nubi_95, Phlop_89, Portcullis_92, RogerDodger_95, Salvador_92, Sendy_94, SharkTale_93, Shinji_91, Sixsevenium_91, SmokingBunny_93, Togo_92, Twister6_91, Valary_93, Wizard_87, YungMoney_92,

Genes that have the "Most Annotated" start but do not call it:
• Barb_96, CherryCola_91, ClamChowder_95, CoveyB_94, Halo3_91, Jambalaya_89, KimmyK_90, PinkCoffee_94, PullumCavea_90, Savbucketdawg_87, TillyBobJoe_91, VanDeWege_94,

Genes that do not have the "Most Annotated" start:
• Clown_93,

Summary by start number:

Start 11:
• Found in 36 of 37 (97.3%) of genes in pham
• Manual Annotations of this start: 19 of 32
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Arri_92 (DC1), Bakery_94 (DC1), Danyall_93 (DC1), Egi03_90 (DC1), Evamon_92 (DC1), Fireball_95 (DC1), Gezellig_88 (DC1), JohnPork_93 (DC1), Mutzi_92 (DC1), Nubi_95 (DC1), Phlop_89 (DC1), Portcullis_92 (DC1), RogerDodger_95 (DC1), Salvador_92 (DC1), Sendy_94 (DC1), SharkTale_93 (DC1), Shinji_91 (DC1), Sixsevenium_91 (DC1), SmokingBunny_93 (DC1), Togo_92 (DC1), Twister6_91 (DC1), Valary_93 (DC1), Wizard_87 (DC1), YungMoney_92 (DC1),

Start 12:
• Found in 36 of 37 (97.3%) of genes in pham
• Manual Annotations of this start: 12 of 32
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Barb_96 (DC1), CherryCola_91 (DC1), ClamChowder_95 (DC1), CoveyB_94 (DC1), Halo3_91 (DC1), Jambalaya_89 (DC1), KimmyK_90 (DC1), PinkCoffee_94 (DC1), PullumCavea_90 (DC1), Savbucketdawg_87 (DC1), TillyBobJoe_91 (DC1), VanDeWege_94 (DC1),

Start 15:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Clown_93 (DC2),

Summary by clusters:

There are 2 clusters represented in this pham: DC2, DC1,

Info for manual annotations of cluster DC1:
•Start number 11 was manually annotated 19 times for cluster DC1.
•Start number 12 was manually annotated 12 times for cluster DC1.

Info for manual annotations of cluster DC2:
•Start number 15 was manually annotated 1 time for cluster DC2.

Gene Information:

Gene: Arri_92 Start: 58023, Stop: 57730, Start Num: 11
Candidate Starts for Arri_92:
(Start: 11 @58023 has 19 MA's), (Start: 12 @58020 has 12 MA's), (13, 58008), (16, 57939), (17, 57918), (18, 57888), (19, 57885), (20, 57864), (21, 57861), (22, 57858), (23, 57855), (24, 57843), (26, 57813),

Gene: Bakery_94 Start: 59845, Stop: 59552, Start Num: 11
Candidate Starts for Bakery_94:
(Start: 11 @59845 has 19 MA's), (Start: 12 @59842 has 12 MA's), (13, 59830), (14, 59818), (16, 59761), (17, 59740), (19, 59707), (20, 59686), (21, 59683), (22, 59680), (23, 59677), (24, 59665), (25,

59647),

Gene: Barb_96 Start: 58884, Stop: 58594, Start Num: 12
Candidate Starts for Barb_96:
(Start: 11 @58887 has 19 MA's), (Start: 12 @58884 has 12 MA's), (13, 58872), (14, 58860), (16, 58803), (17, 58782), (18, 58752), (19, 58749), (20, 58728), (21, 58725), (22, 58722), (23, 58719), (24, 58707),

Gene: CherryCola_91 Start: 58433, Stop: 58143, Start Num: 12
Candidate Starts for CherryCola_91:
(Start: 11 @58436 has 19 MA's), (Start: 12 @58433 has 12 MA's), (13, 58421), (16, 58352), (17, 58331), (18, 58301), (19, 58298), (20, 58277), (21, 58274), (22, 58271), (23, 58268), (24, 58256), (26, 58226),

Gene: ClamChowder_95 Start: 58884, Stop: 58594, Start Num: 12
Candidate Starts for ClamChowder_95:
(Start: 11 @58887 has 19 MA's), (Start: 12 @58884 has 12 MA's), (13, 58872), (14, 58860), (16, 58803), (17, 58782), (18, 58752), (19, 58749), (20, 58728), (21, 58725), (22, 58722), (23, 58719), (24, 58707),

Gene: Clown_93 Start: 57542, Stop: 57276, Start Num: 15
Candidate Starts for Clown_93:
(1, 57899), (2, 57830), (3, 57800), (4, 57797), (5, 57779), (6, 57764), (7, 57686), (8, 57683), (9, 57638), (10, 57632), (Start: 15 @57542 has 1 MA's), (17, 57464), (19, 57431), (20, 57410), (22, 57404),

Gene: CoveyB_94 Start: 58371, Stop: 58081, Start Num: 12
Candidate Starts for CoveyB_94:
(Start: 11 @58374 has 19 MA's), (Start: 12 @58371 has 12 MA's), (13, 58359), (14, 58347), (16, 58290), (17, 58269), (18, 58239), (19, 58236), (20, 58215), (21, 58212), (22, 58209), (23, 58206), (24, 58194),

Gene: Danyall_93 Start: 58068, Stop: 57775, Start Num: 11
Candidate Starts for Danyall_93:
(Start: 11 @58068 has 19 MA's), (Start: 12 @58065 has 12 MA's), (13, 58053), (14, 58041), (16, 57984), (17, 57963), (18, 57933), (19, 57930), (20, 57909), (21, 57906), (22, 57903), (23, 57900), (24, 57888),

Gene: Egi03_90 Start: 57458, Stop: 57165, Start Num: 11
Candidate Starts for Egi03_90:
(Start: 11 @57458 has 19 MA's), (Start: 12 @57455 has 12 MA's), (13, 57443), (16, 57374), (17, 57353), (18, 57323), (19, 57320), (20, 57299), (21, 57296), (22, 57293), (23, 57290), (24, 57278), (26, 57248),

Gene: Evamon_92 Start: 57833, Stop: 57540, Start Num: 11
Candidate Starts for Evamon_92:
(Start: 11 @57833 has 19 MA's), (Start: 12 @57830 has 12 MA's), (13, 57818), (16, 57749), (17, 57728), (18, 57698), (19, 57695), (20, 57674), (21, 57671), (22, 57668), (23, 57665), (24, 57653),

Gene: Fireball_95 Start: 58297, Stop: 58004, Start Num: 11
Candidate Starts for Fireball_95:
(Start: 11 @58297 has 19 MA's), (Start: 12 @58294 has 12 MA's), (13, 58282), (16, 58213), (17, 58192), (18, 58162), (19, 58159), (20, 58138), (21, 58135), (22, 58132), (23, 58129), (24, 58117), (26, 58087),

Gene: Gezellig_88 Start: 57681, Stop: 57388, Start Num: 11
Candidate Starts for Gezellig_88:
(Start: 11 @57681 has 19 MA's), (Start: 12 @57678 has 12 MA's), (13, 57666), (16, 57597), (17, 57576), (18, 57546), (19, 57543), (20, 57522), (21, 57519), (22, 57516), (23, 57513), (24, 57501), (26, 57471),

Gene: Halo3_91 Start: 58552, Stop: 58262, Start Num: 12
Candidate Starts for Halo3_91:
(Start: 11 @58555 has 19 MA's), (Start: 12 @58552 has 12 MA's), (13, 58540), (16, 58471), (17, 58450), (18, 58420), (20, 58396), (21, 58393), (22, 58390), (23, 58387), (24, 58375),

Gene: Jambalaya_89 Start: 57134, Stop: 56844, Start Num: 12
Candidate Starts for Jambalaya_89:
(Start: 11 @57137 has 19 MA's), (Start: 12 @57134 has 12 MA's), (13, 57122), (16, 57053), (17, 57032), (18, 57002), (19, 56999), (20, 56978), (21, 56975), (22, 56972), (23, 56969), (24, 56957),

Gene: JohnPork_93 Start: 57737, Stop: 57444, Start Num: 11
Candidate Starts for JohnPork_93:
(Start: 11 @57737 has 19 MA's), (Start: 12 @57734 has 12 MA's), (13, 57722), (14, 57710), (16, 57653), (17, 57632), (18, 57602), (19, 57599), (20, 57578), (21, 57575), (22, 57572), (23, 57569), (24, 57557),

Gene: KimmyK_90 Start: 58125, Stop: 57835, Start Num: 12
Candidate Starts for KimmyK_90:
(Start: 11 @58128 has 19 MA's), (Start: 12 @58125 has 12 MA's), (13, 58113), (16, 58044), (17, 58023), (18, 57993), (19, 57990), (20, 57969), (21, 57966), (22, 57963), (23, 57960), (24, 57948), (26, 57918),

Gene: Mutzi_92 Start: 59028, Stop: 58735, Start Num: 11
Candidate Starts for Mutzi_92:
(Start: 11 @59028 has 19 MA's), (Start: 12 @59025 has 12 MA's), (13, 59013), (14, 59001), (16, 58944), (17, 58923), (18, 58893), (19, 58890), (20, 58869), (21, 58866), (22, 58863), (23, 58860), (24, 58848),

Gene: Nubi_95 Start: 58091, Stop: 57798, Start Num: 11
Candidate Starts for Nubi_95:
(Start: 11 @58091 has 19 MA's), (Start: 12 @58088 has 12 MA's), (13, 58076), (14, 58064), (16, 58007), (17, 57986), (18, 57956), (19, 57953), (20, 57932), (21, 57929), (22, 57926), (23, 57923), (24, 57911),

Gene: Phlop_89 Start: 57731, Stop: 57438, Start Num: 11
Candidate Starts for Phlop_89:
(Start: 11 @57731 has 19 MA's), (Start: 12 @57728 has 12 MA's), (13, 57716), (16, 57647), (17, 57626), (18, 57596), (19, 57593), (20, 57572), (21, 57569), (22, 57566), (23, 57563), (24, 57551), (26, 57521),

Gene: PinkCoffee_94 Start: 57929, Stop: 57639, Start Num: 12
Candidate Starts for PinkCoffee_94:
(Start: 11 @57932 has 19 MA's), (Start: 12 @57929 has 12 MA's), (13, 57917), (14, 57905), (16, 57848), (17, 57827), (18, 57797), (19, 57794), (20, 57773), (21, 57770), (22, 57767), (23, 57764), (24, 57752),

Gene: Portcullis_92 Start: 57737, Stop: 57444, Start Num: 11
Candidate Starts for Portcullis_92:
(Start: 11 @57737 has 19 MA's), (Start: 12 @57734 has 12 MA's), (13, 57722), (14, 57710), (16, 57653), (17, 57632), (18, 57602), (19, 57599), (20, 57578), (21, 57575), (22, 57572), (23, 57569), (24, 57557),

Gene: PullumCavea_90 Start: 57905, Stop: 57615, Start Num: 12
Candidate Starts for PullumCavea_90:
(Start: 11 @57908 has 19 MA's), (Start: 12 @57905 has 12 MA's), (13, 57893), (16, 57824), (17, 57803), (18, 57773), (19, 57770), (20, 57749), (21, 57746), (22, 57743), (23, 57740), (24, 57728), (26, 57698),

Gene: RogerDodger_95 Start: 58495, Stop: 58202, Start Num: 11
Candidate Starts for RogerDodger_95:
(Start: 11 @58495 has 19 MA's), (Start: 12 @58492 has 12 MA's), (13, 58480), (16, 58411), (17, 58390), (18, 58360), (19, 58357), (20, 58336), (21, 58333), (22, 58330), (23, 58327), (24, 58315),

Gene: Salvador_92 Start: 57831, Stop: 57538, Start Num: 11
Candidate Starts for Salvador_92:
(Start: 11 @57831 has 19 MA's), (Start: 12 @57828 has 12 MA's), (13, 57816), (16, 57747), (17, 57726), (18, 57696), (19, 57693), (20, 57672), (21, 57669), (22, 57666), (23, 57663), (24, 57651),

Gene: Savbucketdawg_87 Start: 57171, Stop: 56881, Start Num: 12
Candidate Starts for Savbucketdawg_87:
(Start: 11 @57174 has 19 MA's), (Start: 12 @57171 has 12 MA's), (13, 57159), (16, 57090), (17, 57069), (18, 57039), (19, 57036), (20, 57015), (21, 57012), (22, 57009), (23, 57006), (24, 56994),

Gene: Sendy_94 Start: 57913, Stop: 57620, Start Num: 11
Candidate Starts for Sendy_94:
(Start: 11 @57913 has 19 MA's), (Start: 12 @57910 has 12 MA's), (13, 57898), (16, 57829), (17, 57808), (18, 57778), (19, 57775), (20, 57754), (21, 57751), (22, 57748), (23, 57745), (24, 57733), (26, 57703),

Gene: SharkTale_93 Start: 58652, Stop: 58350, Start Num: 11
Candidate Starts for SharkTale_93:
(Start: 11 @58652 has 19 MA's), (Start: 12 @58649 has 12 MA's), (13, 58628), (16, 58559), (19, 58505), (20, 58484), (21, 58481), (22, 58478), (23, 58475), (24, 58463),

Gene: Shinji_91 Start: 57914, Stop: 57621, Start Num: 11
Candidate Starts for Shinji_91:
(Start: 11 @57914 has 19 MA's), (Start: 12 @57911 has 12 MA's), (13, 57899), (16, 57830), (17, 57809), (18, 57779), (19, 57776), (20, 57755), (21, 57752), (22, 57749), (23, 57746), (24, 57734), (26, 57704),

Gene: Sixsevenium_91 Start: 58826, Stop: 58533, Start Num: 11
Candidate Starts for Sixsevenium_91:
(Start: 11 @58826 has 19 MA's), (Start: 12 @58823 has 12 MA's), (13, 58811), (14, 58799), (16, 58742), (17, 58721), (19, 58688), (20, 58667), (21, 58664), (22, 58661), (23, 58658), (24, 58646), (25, 58628),

Gene: SmokingBunny_93 Start: 58827, Stop: 58534, Start Num: 11
Candidate Starts for SmokingBunny_93:

(Start: 11 @58827 has 19 MA's), (Start: 12 @58824 has 12 MA's), (13, 58812), (16, 58743), (17, 58722), (18, 58692), (19, 58689), (20, 58668), (21, 58665), (22, 58662), (23, 58659), (24, 58647),

Gene: TillyBobJoe_91 Start: 58047, Stop: 57757, Start Num: 12
Candidate Starts for TillyBobJoe_91:
(Start: 11 @58050 has 19 MA's), (Start: 12 @58047 has 12 MA's), (13, 58035), (16, 57966), (17, 57945), (18, 57915), (19, 57912), (20, 57891), (21, 57888), (22, 57885), (23, 57882), (24, 57870),

Gene: Togo_92 Start: 58827, Stop: 58534, Start Num: 11
Candidate Starts for Togo_92:
(Start: 11 @58827 has 19 MA's), (Start: 12 @58824 has 12 MA's), (13, 58812), (16, 58743), (17, 58722), (18, 58692), (19, 58689), (20, 58668), (21, 58665), (22, 58662), (23, 58659), (24, 58647),

Gene: Twister6_91 Start: 57177, Stop: 56884, Start Num: 11
Candidate Starts for Twister6_91:
(Start: 11 @57177 has 19 MA's), (Start: 12 @57174 has 12 MA's), (13, 57162), (16, 57093), (17, 57072), (18, 57042), (19, 57039), (20, 57018), (21, 57015), (22, 57012), (23, 57009), (24, 56997),

Gene: Valary_93 Start: 58821, Stop: 58528, Start Num: 11
Candidate Starts for Valary_93:
(Start: 11 @58821 has 19 MA's), (Start: 12 @58818 has 12 MA's), (13, 58806), (16, 58737), (17, 58716), (18, 58686), (19, 58683), (20, 58662), (21, 58659), (22, 58656), (23, 58653), (24, 58641), (26, 58611),

Gene: VanDeWege_94 Start: 58342, Stop: 58052, Start Num: 12
Candidate Starts for VanDeWege_94:
(Start: 11 @58345 has 19 MA's), (Start: 12 @58342 has 12 MA's), (13, 58330), (16, 58261), (17, 58240), (18, 58210), (19, 58207), (20, 58186), (21, 58183), (22, 58180), (23, 58177), (24, 58165),

Gene: Wizard_87 Start: 57681, Stop: 57388, Start Num: 11
Candidate Starts for Wizard_87:
(Start: 11 @57681 has 19 MA's), (Start: 12 @57678 has 12 MA's), (13, 57666), (16, 57597), (17, 57576), (18, 57546), (19, 57543), (20, 57522), (21, 57519), (22, 57516), (23, 57513), (24, 57501), (26, 57471),

Gene: YungMoney_92 Start: 59868, Stop: 59575, Start Num: 11
Candidate Starts for YungMoney_92:
(Start: 11 @59868 has 19 MA's), (Start: 12 @59865 has 12 MA's), (13, 59853), (14, 59841), (16, 59784), (17, 59763), (18, 59733), (19, 59730), (20, 59709), (21, 59706), (22, 59703), (23, 59700), (24, 59688),