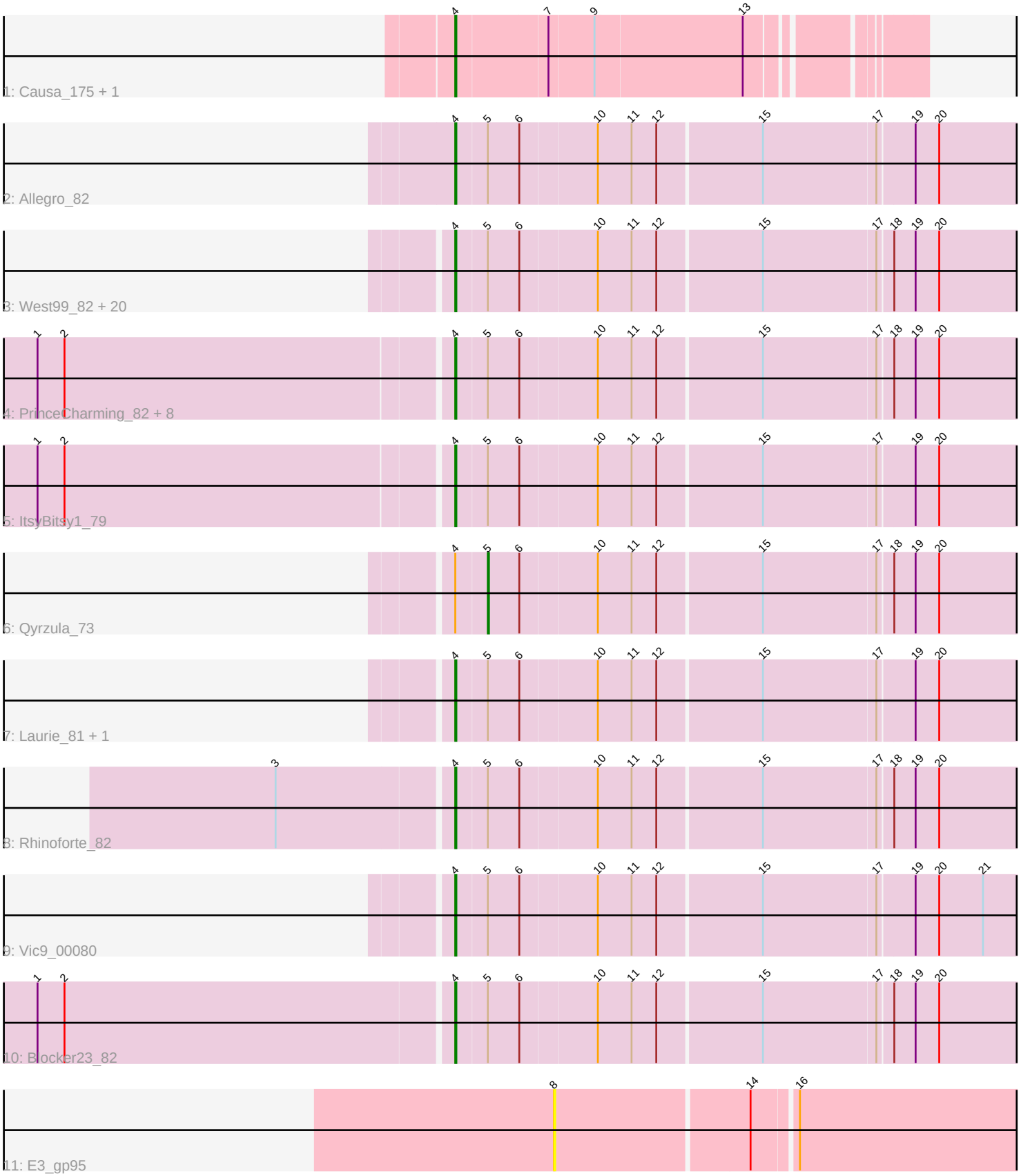
Pham 345900


1: Causa_175 + 1
2: Allegro_82
3: West99_82 + 20
4: PrinceCharming_82 + 8
5: ItsyBitsy1_79
6: Qyrzula_73
7: Laurie_81 + 1
8: Rhinoforte_82
9: Vic9_00080
10: Blocker23_82
11: E3_gp95

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 345900 Report

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

Pham number 345900 has 41 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Causa_175, StAugustine_169
• Track 2 : Allegro_82
• Track 3 : West99_82, Opia_83, Holeinone_82, Hedgerow_82, TA17A_85, FrenchFry_83, Kaleb_82, Kolhan_83, Boyle_82, Eaglehorse_82, LizLemon_82, Calamitous_83, Ares_82, Faze9_81, Bananafish_83, Glass_84, Lars_83, Phantasmagoria_81, Rosebush_80, LilSmirk_82, Kheth_82
• Track 4 : PrinceCharming_82, Brownie5_82, MasterPo_83, Arbiter_79, Coffee_81, Sabella_82, Tinciduntsolum_83, Tres_82, Lephleur_82
• Track 5 : ItsyBitsy1_79
• Track 6 : Qyrzula_73
• Track 7 : Laurie_81, Godines_82
• Track 8 : Rhinoforte_82
• Track 9 : Vic9_00080
• Track 10 : Blocker23_82
• Track 11 : E3_gp95

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 38 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Allegro_82, Arbiter_79, Ares_82, Bananafish_83, Blocker23_82, Boyle_82, Brownie5_82, Calamitous_83, Causa_175, Coffee_81, Eaglehorse_82, Faze9_81, FrenchFry_83, Glass_84, Godines_82, Hedgerow_82, Holeinone_82, ItsyBitsy1_79, Kaleb_82, Kheth_82, Kolhan_83, Lars_83, Laurie_81, Lephleur_82, LilSmirk_82, LizLemon_82, MasterPo_83, Opia_83, Phantasmagoria_81, PrinceCharming_82, Rhinoforte_82, Rosebush_80, Sabella_82, StAugustine_169, TA17A_85, Tinciduntsolum_83, Tres_82, Vic9_00080, West99_82,

Genes that have the "Most Annotated" start but do not call it:
• Qyrzula_73,

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

• E3_gp95,

Summary by start number:

Start 4:
• Found in 40 of 41 (97.6%) of genes in pham
• Manual Annotations of this start: 38 of 39
• Called 97.5% of time when present
• Phage (with cluster) where this start called: Allegro_82 (B2), Arbiter_79 (B2), Ares_82 (B2), Bananafish_83 (B2), Blocker23_82 (B2), Boyle_82 (B2), Brownie5_82 (B2), Calamitous_83 (B2), Causa_175 (AI), Coffee_81 (B2), Eaglehorse_82 (B2), Faze9_81 (B2), FrenchFry_83 (B2), Glass_84 (B2), Godines_82 (B2), Hedgerow_82 (B2), Holeinone_82 (B2), ItsyBitsy1_79 (B2), Kaleb_82 (B2), Kheth_82 (B2), Kolhan_83 (B2), Lars_83 (B2), Laurie_81 (B2), Lephleur_82 (B2), LilSmirk_82 (B2), LizLemon_82 (B2), MasterPo_83 (B2), Opia_83 (B2), Phantasmagoria_81 (B2), PrinceCharming_82 (B2), Rhinoforte_82 (B2), Rosebush_80 (B2), Sabella_82 (B2), StAugustine_169 (AI), TA17A_85 (B2), Tinciduntsolum_83 (B2), Tres_82 (B2), Vic9_00080 (B2), West99_82 (B2),

Start 5:
• Found in 38 of 41 (92.7%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 2.6% of time when present
• Phage (with cluster) where this start called: Qyrzula_73 (B2),

Start 8:
• Found in 1 of 41 (2.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp95 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: AI, singleton, B2,

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

Info for manual annotations of cluster B2:
•Start number 4 was manually annotated 36 times for cluster B2.
•Start number 5 was manually annotated 1 time for cluster B2.

Gene Information:

Gene: Allegro_82 Start: 62777, Stop: 62283, Start Num: 4
Candidate Starts for Allegro_82:
(Start: 4 @62777 has 38 MA's), (Start: 5 @62750 has 1 MA's), (6, 62723), (10, 62657), (11, 62627), (12, 62606), (15, 62516), (17, 62417), (19, 62387), (20, 62366),

Gene: Arbiter_79 Start: 62824, Stop: 62330, Start Num: 4
Candidate Starts for Arbiter_79:

(1, 63184), (2, 63160), (Start: 4 @62824 has 38 MA's), (Start: 5 @62797 has 1 MA's), (6, 62770), (10, 62704), (11, 62674), (12, 62653), (15, 62563), (17, 62464), (18, 62452), (19, 62434), (20, 62413),

Gene: Ares_82 Start: 62782, Stop: 62288, Start Num: 4
Candidate Starts for Ares_82:
(Start: 4 @62782 has 38 MA's), (Start: 5 @62755 has 1 MA's), (6, 62728), (10, 62662), (11, 62632), (12, 62611), (15, 62521), (17, 62422), (18, 62410), (19, 62392), (20, 62371),

Gene: Bananafish_83 Start: 62719, Stop: 62225, Start Num: 4
Candidate Starts for Bananafish_83:
(Start: 4 @62719 has 38 MA's), (Start: 5 @62692 has 1 MA's), (6, 62665), (10, 62599), (11, 62569), (12, 62548), (15, 62458), (17, 62359), (18, 62347), (19, 62329), (20, 62308),

Gene: Blocker23_82 Start: 62781, Stop: 62287, Start Num: 4
Candidate Starts for Blocker23_82:
(1, 63144), (2, 63120), (Start: 4 @62781 has 38 MA's), (Start: 5 @62754 has 1 MA's), (6, 62727), (10, 62661), (11, 62631), (12, 62610), (15, 62520), (17, 62421), (18, 62409), (19, 62391), (20, 62370),

Gene: Boyle_82 Start: 62831, Stop: 62337, Start Num: 4
Candidate Starts for Boyle_82:
(Start: 4 @62831 has 38 MA's), (Start: 5 @62804 has 1 MA's), (6, 62777), (10, 62711), (11, 62681), (12, 62660), (15, 62570), (17, 62471), (18, 62459), (19, 62441), (20, 62420),

Gene: Brownie5_82 Start: 62832, Stop: 62338, Start Num: 4
Candidate Starts for Brownie5_82:
(1, 63192), (2, 63168), (Start: 4 @62832 has 38 MA's), (Start: 5 @62805 has 1 MA's), (6, 62778), (10, 62712), (11, 62682), (12, 62661), (15, 62571), (17, 62472), (18, 62460), (19, 62442), (20, 62421),

Gene: Calamitous_83 Start: 62714, Stop: 62220, Start Num: 4
Candidate Starts for Calamitous_83:
(Start: 4 @62714 has 38 MA's), (Start: 5 @62687 has 1 MA's), (6, 62660), (10, 62594), (11, 62564), (12, 62543), (15, 62453), (17, 62354), (18, 62342), (19, 62324), (20, 62303),

Gene: Causa_175 Start: 94619, Stop: 94239, Start Num: 4
Candidate Starts for Causa_175:
(Start: 4 @94619 has 38 MA's), (7, 94541), (9, 94502), (13, 94373),

Gene: Coffee_81 Start: 62825, Stop: 62331, Start Num: 4
Candidate Starts for Coffee_81:
(1, 63185), (2, 63161), (Start: 4 @62825 has 38 MA's), (Start: 5 @62798 has 1 MA's), (6, 62771), (10, 62705), (11, 62675), (12, 62654), (15, 62564), (17, 62465), (18, 62453), (19, 62435), (20, 62414),

Gene: E3_gp95 Start: 54193, Stop: 54597, Start Num: 8
Candidate Starts for E3_gp95:
(8, 54193), (14, 54361), (16, 54397),

Gene: Eaglehorse_82 Start: 62708, Stop: 62214, Start Num: 4
Candidate Starts for Eaglehorse_82:
(Start: 4 @62708 has 38 MA's), (Start: 5 @62681 has 1 MA's), (6, 62654), (10, 62588), (11, 62558), (12, 62537), (15, 62447), (17, 62348), (18, 62336), (19, 62318), (20, 62297),

Gene: Faze9_81 Start: 62846, Stop: 62352, Start Num: 4
Candidate Starts for Faze9_81:

(Start: 4 @62846 has 38 MA's), (Start: 5 @62819 has 1 MA's), (6, 62792), (10, 62726), (11, 62696), (12, 62675), (15, 62585), (17, 62486), (18, 62474), (19, 62456), (20, 62435),

Gene: FrenchFry_83 Start: 62833, Stop: 62339, Start Num: 4
Candidate Starts for FrenchFry_83:
(Start: 4 @62833 has 38 MA's), (Start: 5 @62806 has 1 MA's), (6, 62779), (10, 62713), (11, 62683), (12, 62662), (15, 62572), (17, 62473), (18, 62461), (19, 62443), (20, 62422),

Gene: Glass_84 Start: 62840, Stop: 62346, Start Num: 4
Candidate Starts for Glass_84:
(Start: 4 @62840 has 38 MA's), (Start: 5 @62813 has 1 MA's), (6, 62786), (10, 62720), (11, 62690), (12, 62669), (15, 62579), (17, 62480), (18, 62468), (19, 62450), (20, 62429),

Gene: Godines_82 Start: 62746, Stop: 62252, Start Num: 4
Candidate Starts for Godines_82:
(Start: 4 @62746 has 38 MA's), (Start: 5 @62719 has 1 MA's), (6, 62692), (10, 62626), (11, 62596), (12, 62575), (15, 62485), (17, 62386), (19, 62356), (20, 62335),

Gene: Hedgerow_82 Start: 62797, Stop: 62303, Start Num: 4
Candidate Starts for Hedgerow_82:
(Start: 4 @62797 has 38 MA's), (Start: 5 @62770 has 1 MA's), (6, 62743), (10, 62677), (11, 62647), (12, 62626), (15, 62536), (17, 62437), (18, 62425), (19, 62407), (20, 62386),

Gene: Holeinone_82 Start: 62687, Stop: 62193, Start Num: 4
Candidate Starts for Holeinone_82:
(Start: 4 @62687 has 38 MA's), (Start: 5 @62660 has 1 MA's), (6, 62633), (10, 62567), (11, 62537), (12, 62516), (15, 62426), (17, 62327), (18, 62315), (19, 62297), (20, 62276),

Gene: ItsyBitsy1_79 Start: 62915, Stop: 62421, Start Num: 4
Candidate Starts for ItsyBitsy1_79:
(1, 63275), (2, 63251), (Start: 4 @62915 has 38 MA's), (Start: 5 @62888 has 1 MA's), (6, 62861), (10, 62795), (11, 62765), (12, 62744), (15, 62654), (17, 62555), (19, 62525), (20, 62504),

Gene: Kaleb_82 Start: 62843, Stop: 62349, Start Num: 4
Candidate Starts for Kaleb_82:
(Start: 4 @62843 has 38 MA's), (Start: 5 @62816 has 1 MA's), (6, 62789), (10, 62723), (11, 62693), (12, 62672), (15, 62582), (17, 62483), (18, 62471), (19, 62453), (20, 62432),

Gene: Kheth_82 Start: 62748, Stop: 62254, Start Num: 4
Candidate Starts for Kheth_82:
(Start: 4 @62748 has 38 MA's), (Start: 5 @62721 has 1 MA's), (6, 62694), (10, 62628), (11, 62598), (12, 62577), (15, 62487), (17, 62388), (18, 62376), (19, 62358), (20, 62337),

Gene: Kolhan_83 Start: 62736, Stop: 62242, Start Num: 4
Candidate Starts for Kolhan_83:
(Start: 4 @62736 has 38 MA's), (Start: 5 @62709 has 1 MA's), (6, 62682), (10, 62616), (11, 62586), (12, 62565), (15, 62475), (17, 62376), (18, 62364), (19, 62346), (20, 62325),

Gene: Lars_83 Start: 62812, Stop: 62318, Start Num: 4
Candidate Starts for Lars_83:
(Start: 4 @62812 has 38 MA's), (Start: 5 @62785 has 1 MA's), (6, 62758), (10, 62692), (11, 62662), (12, 62641), (15, 62551), (17, 62452), (18, 62440), (19, 62422), (20, 62401),

Gene: Laurie_81 Start: 62150, Stop: 61656, Start Num: 4
Candidate Starts for Laurie_81:
(Start: 4 @62150 has 38 MA's), (Start: 5 @62123 has 1 MA's), (6, 62096), (10, 62030), (11, 62000), (12, 61979), (15, 61889), (17, 61790), (19, 61760), (20, 61739),

Gene: Lephleur_82 Start: 62669, Stop: 62175, Start Num: 4
Candidate Starts for Lephleur_82:
(1, 63029), (2, 63005), (Start: 4 @62669 has 38 MA's), (Start: 5 @62642 has 1 MA's), (6, 62615), (10, 62549), (11, 62519), (12, 62498), (15, 62408), (17, 62309), (18, 62297), (19, 62279), (20, 62258),

Gene: LilSmirk_82 Start: 62707, Stop: 62213, Start Num: 4
Candidate Starts for LilSmirk_82:
(Start: 4 @62707 has 38 MA's), (Start: 5 @62680 has 1 MA's), (6, 62653), (10, 62587), (11, 62557), (12, 62536), (15, 62446), (17, 62347), (18, 62335), (19, 62317), (20, 62296),

Gene: LizLemon_82 Start: 62839, Stop: 62345, Start Num: 4
Candidate Starts for LizLemon_82:
(Start: 4 @62839 has 38 MA's), (Start: 5 @62812 has 1 MA's), (6, 62785), (10, 62719), (11, 62689), (12, 62668), (15, 62578), (17, 62479), (18, 62467), (19, 62449), (20, 62428),

Gene: MasterPo_83 Start: 62709, Stop: 62215, Start Num: 4
Candidate Starts for MasterPo_83:
(1, 63069), (2, 63045), (Start: 4 @62709 has 38 MA's), (Start: 5 @62682 has 1 MA's), (6, 62655), (10, 62589), (11, 62559), (12, 62538), (15, 62448), (17, 62349), (18, 62337), (19, 62319), (20, 62298),

Gene: Opia_83 Start: 62732, Stop: 62238, Start Num: 4
Candidate Starts for Opia_83:
(Start: 4 @62732 has 38 MA's), (Start: 5 @62705 has 1 MA's), (6, 62678), (10, 62612), (11, 62582), (12, 62561), (15, 62471), (17, 62372), (18, 62360), (19, 62342), (20, 62321),

Gene: Phantasmagoria_81 Start: 62715, Stop: 62221, Start Num: 4
Candidate Starts for Phantasmagoria_81:
(Start: 4 @62715 has 38 MA's), (Start: 5 @62688 has 1 MA's), (6, 62661), (10, 62595), (11, 62565), (12, 62544), (15, 62454), (17, 62355), (18, 62343), (19, 62325), (20, 62304),

Gene: PrinceCharming_82 Start: 62761, Stop: 62267, Start Num: 4
Candidate Starts for PrinceCharming_82:
(1, 63121), (2, 63097), (Start: 4 @62761 has 38 MA's), (Start: 5 @62734 has 1 MA's), (6, 62707), (10, 62641), (11, 62611), (12, 62590), (15, 62500), (17, 62401), (18, 62389), (19, 62371), (20, 62350),

Gene: Qyrzula_73 Start: 62827, Stop: 62360, Start Num: 5
Candidate Starts for Qyrzula_73:
(Start: 4 @62854 has 38 MA's), (Start: 5 @62827 has 1 MA's), (6, 62800), (10, 62734), (11, 62704), (12, 62683), (15, 62593), (17, 62494), (18, 62482), (19, 62464), (20, 62443),

Gene: Rhinoforte_82 Start: 62750, Stop: 62256, Start Num: 4
Candidate Starts for Rhinoforte_82:
(3, 62900), (Start: 4 @62750 has 38 MA's), (Start: 5 @62723 has 1 MA's), (6, 62696), (10, 62630), (11, 62600), (12, 62579), (15, 62489), (17, 62390), (18, 62378), (19, 62360), (20, 62339),

Gene: Rosebush_80 Start: 62823, Stop: 62329, Start Num: 4
Candidate Starts for Rosebush_80:

(Start: 4 @62823 has 38 MA's), (Start: 5 @62796 has 1 MA's), (6, 62769), (10, 62703), (11, 62673), (12, 62652), (15, 62562), (17, 62463), (18, 62451), (19, 62433), (20, 62412),

Gene: Sabella_82 Start: 62660, Stop: 62166, Start Num: 4
Candidate Starts for Sabella_82:
(1, 63020), (2, 62996), (Start: 4 @62660 has 38 MA's), (Start: 5 @62633 has 1 MA's), (6, 62606), (10, 62540), (11, 62510), (12, 62489), (15, 62399), (17, 62300), (18, 62288), (19, 62270), (20, 62249),

Gene: StAugustine_169 Start: 94603, Stop: 94223, Start Num: 4
Candidate Starts for StAugustine_169:
(Start: 4 @94603 has 38 MA's), (7, 94525), (9, 94486), (13, 94357),

Gene: TA17A_85 Start: 62666, Stop: 62172, Start Num: 4
Candidate Starts for TA17A_85:
(Start: 4 @62666 has 38 MA's), (Start: 5 @62639 has 1 MA's), (6, 62612), (10, 62546), (11, 62516), (12, 62495), (15, 62405), (17, 62306), (18, 62294), (19, 62276), (20, 62255),

Gene: Tinciduntsolum_83 Start: 62831, Stop: 62337, Start Num: 4
Candidate Starts for Tinciduntsolum_83:
(1, 63191), (2, 63167), (Start: 4 @62831 has 38 MA's), (Start: 5 @62804 has 1 MA's), (6, 62777), (10, 62711), (11, 62681), (12, 62660), (15, 62570), (17, 62471), (18, 62459), (19, 62441), (20, 62420),

Gene: Tres_82 Start: 62682, Stop: 62188, Start Num: 4
Candidate Starts for Tres_82:
(1, 63042), (2, 63018), (Start: 4 @62682 has 38 MA's), (Start: 5 @62655 has 1 MA's), (6, 62628), (10, 62562), (11, 62532), (12, 62511), (15, 62421), (17, 62322), (18, 62310), (19, 62292), (20, 62271),

Gene: Vic9_00080 Start: 63216, Stop: 62722, Start Num: 4
Candidate Starts for Vic9_00080:
(Start: 4 @63216 has 38 MA's), (Start: 5 @63189 has 1 MA's), (6, 63162), (10, 63096), (11, 63066), (12, 63045), (15, 62955), (17, 62856), (19, 62826), (20, 62805), (21, 62766),

Gene: West99_82 Start: 62853, Stop: 62359, Start Num: 4
Candidate Starts for West99_82:
(Start: 4 @62853 has 38 MA's), (Start: 5 @62826 has 1 MA's), (6, 62799), (10, 62733), (11, 62703), (12, 62682), (15, 62592), (17, 62493), (18, 62481), (19, 62463), (20, 62442),