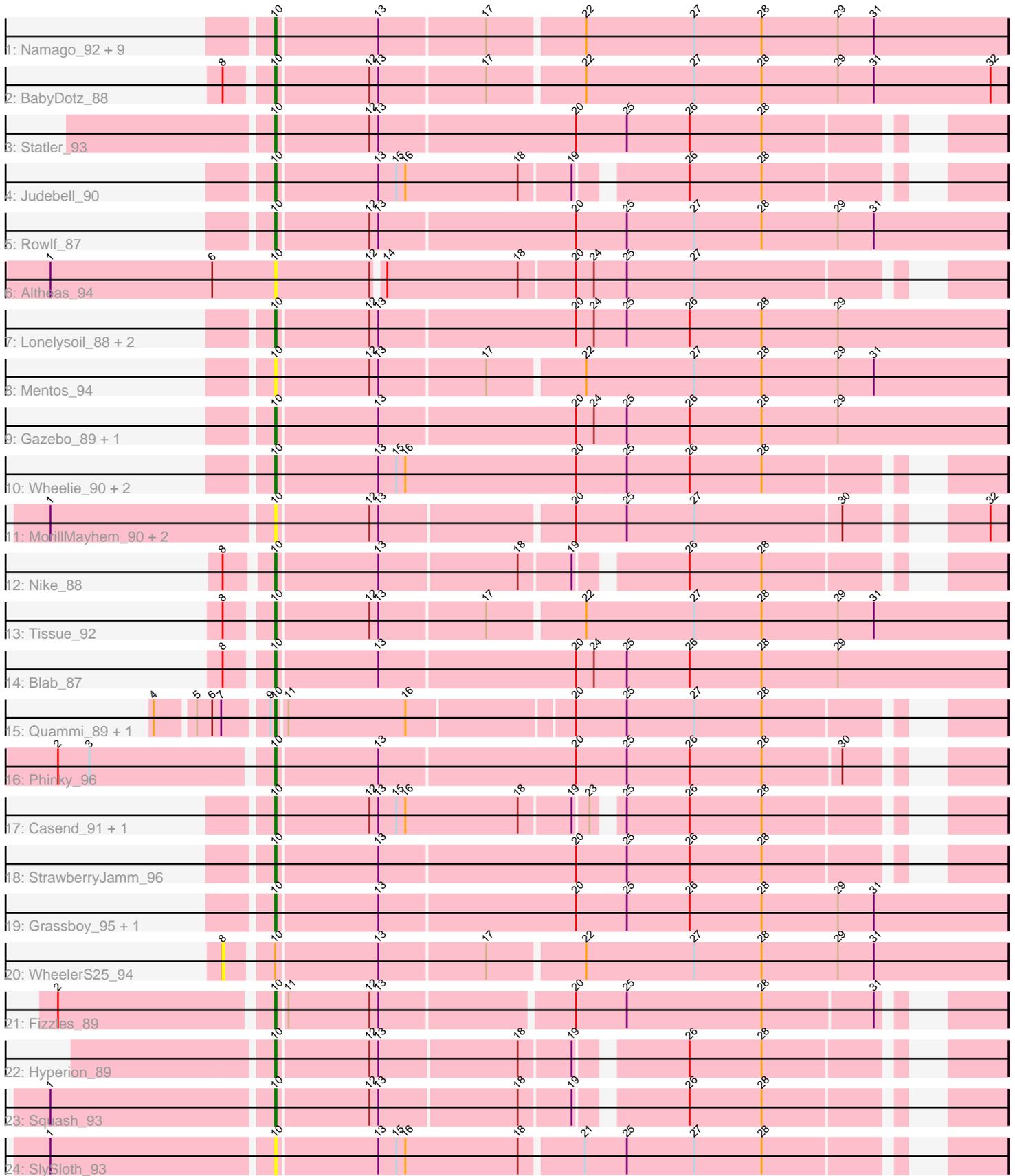# Pham 282298

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 282298 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282298 has 43 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Namago_92, DonaldDuck_90, Zagie_92, Sillytadpoles_91, EverythinBagel_88, SallyK_92, Zhafia_93, Teehee_91, Jehoshaphat_92, Llemily_90
• Track 2 : BabyDotz_88
• Track 3 : Statler_93
• Track 4 : Judebell_90
• Track 5 : Rowlf_87
• Track 6 : Altheas_94
• Track 7 : Lonelysoil_88, Rudy_88, Mashley_89
• Track 8 : Mentos_94
• Track 9 : Gazebo_89, AluminumJesus_87
• Track 10 : Wheelie_90, Wayne3_92, Phabia_90
• Track 11 : MorillMayhem_90, BaconCheese_94, Mila11_92
• Track 12 : Nike_88
• Track 13 : Tissue_92
• Track 14 : Blab_87
• Track 15 : Quammi_89, Viceroy_88
• Track 16 : Phinky_96
• Track 17 : Casend_91, FrankDeliGuy_88
• Track 18 : StrawberryJamm_96
• Track 19 : Grassboy_95, Kyva_95
• Track 20 : WheelerS25_94
• Track 21 : Fizzles_89
• Track 22 : Hyperion_89
• Track 23 : Squash_93
• Track 24 : SlySloth_93

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

The start number called the most often in the published annotations is 10, it was called in 36 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_94, AluminumJesus_87, BabyDotz_88, BaconCheese_94, Blab_87, Casend_91, DonaldDuck_90, EverythinBagel_88, Fizzles_89, FrankDeliGuy_88,

Gazebo_89, Grassboy_95, Hyperion_89, Jehoshaphat_92, Judebell_90, Kyva_95, Llemily_90, Lonelysoil_88, Mashley_89, Mentos_94, Mila11_92, MorillMayhem_90, Namago_92, Nike_88, Phabia_90, Phinky_96, Quammi_89, Rowlf_87, Rudy_88, SallyK_92, Sillytadpoles_91, SlySloth_93, Squash_93, Statler_93, StrawberryJamm_96, Teehee_91, Tissue_92, Viceroy_88, Wayne3_92, Wheelie_90, Zagie_92, Zhafia_93,

Genes that have the "Most Annotated" start but do not call it:
• WheelerS25_94,

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

Summary by start number:

Start 8:
• Found in 5 of 43 (11.6%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: WheelerS25_94 (EG),

Start 10:
• Found in 43 of 43 (100.0%) of genes in pham
• Manual Annotations of this start: 36 of 36
• Called 97.7% of time when present
• Phage (with cluster) where this start called: Altheas_94 (EG), AluminumJesus_87 (EG), BabyDotz_88 (EG), BaconCheese_94 (EG), Blab_87 (EG), Casend_91 (EG), DonaldDuck_90 (EG), EverythinBagel_88 (EG), Fizzles_89 (EG), FrankDeliGuy_88 (EG), Gazebo_89 (EG), Grassboy_95 (EG), Hyperion_89 (EG), Jehoshaphat_92 (EG), Judebell_90 (EG), Kyva_95 (EG), Llemily_90 (EG), Lonelysoil_88 (EG), Mashley_89 (EG), Mentos_94 (EG), Mila11_92 (EG), MorillMayhem_90 (EG), Namago_92 (EG), Nike_88 (EG), Phabia_90 (EG), Phinky_96 (EG), Quammi_89 (EG), Rowlf_87 (EG), Rudy_88 (EG), SallyK_92 (EG), Sillytadpoles_91 (EG), SlySloth_93 (EG), Squash_93 (EG), Statler_93 (EG), StrawberryJamm_96 (EG), Teehee_91 (EG), Tissue_92 (EG), Viceroy_88 (EG), Wayne3_92 (EG), Wheelie_90 (EG), Zagie_92 (EG), Zhafia_93 (EG),

Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:
•Start number 10 was manually annotated 36 times for cluster EG.

Gene Information:

Gene: Altheas_94 Start: 57562, Stop: 57122, Start Num: 10
Candidate Starts for Altheas_94:
(1, 57712), (6, 57604), (Start: 10 @57562 has 36 MA's), (12, 57499), (14, 57493), (18, 57406), (20, 57370), (24, 57358), (25, 57337), (27, 57292),

Gene: AluminumJesus_87 Start: 55760, Stop: 55278, Start Num: 10
Candidate Starts for AluminumJesus_87:
(Start: 10 @55760 has 36 MA's), (13, 55694), (20, 55565), (24, 55553), (25, 55532), (26, 55490), (28, 55442), (29, 55391),

Gene: BabyDotz_88 Start: 57483, Stop: 57007, Start Num: 10
Candidate Starts for BabyDotz_88:
(8, 57510), (Start: 10 @57483 has 36 MA's), (12, 57423), (13, 57417), (17, 57348), (22, 57288), (27, 57216), (28, 57171), (29, 57120), (31, 57096), (32, 57018),

Gene: BaconCheese_94 Start: 57968, Stop: 57531, Start Num: 10
Candidate Starts for BaconCheese_94:
(1, 58112), (Start: 10 @57968 has 36 MA's), (12, 57908), (13, 57902), (20, 57779), (25, 57746), (27, 57701), (30, 57605), (32, 57542),

Gene: Blab_87 Start: 56414, Stop: 55932, Start Num: 10
Candidate Starts for Blab_87:
(8, 56441), (Start: 10 @56414 has 36 MA's), (13, 56348), (20, 56219), (24, 56207), (25, 56186), (26, 56144), (28, 56096), (29, 56045),

Gene: Casend_91 Start: 56962, Stop: 56534, Start Num: 10
Candidate Starts for Casend_91:
(Start: 10 @56962 has 36 MA's), (12, 56902), (13, 56896), (15, 56884), (16, 56878), (18, 56803), (19, 56770), (23, 56761), (25, 56749), (26, 56707), (28, 56659),

Gene: DonaldDuck_90 Start: 56362, Stop: 55886, Start Num: 10
Candidate Starts for DonaldDuck_90:
(Start: 10 @56362 has 36 MA's), (13, 56296), (17, 56227), (22, 56167), (27, 56095), (28, 56050), (29, 55999), (31, 55975),

Gene: EverythinBagel_88 Start: 56157, Stop: 55681, Start Num: 10
Candidate Starts for EverythinBagel_88:
(Start: 10 @56157 has 36 MA's), (13, 56091), (17, 56022), (22, 55962), (27, 55890), (28, 55845), (29, 55794), (31, 55770),

Gene: Fizzles_89 Start: 56470, Stop: 56033, Start Num: 10
Candidate Starts for Fizzles_89:
(2, 56605), (Start: 10 @56470 has 36 MA's), (11, 56464), (12, 56410), (13, 56404), (20, 56281), (25, 56248), (28, 56158), (31, 56086),

Gene: FrankDeliGuy_88 Start: 56640, Stop: 56212, Start Num: 10
Candidate Starts for FrankDeliGuy_88:
(Start: 10 @56640 has 36 MA's), (12, 56580), (13, 56574), (15, 56562), (16, 56556), (18, 56481), (19, 56448), (23, 56439), (25, 56427), (26, 56385), (28, 56337),

Gene: Gazebo_89 Start: 56338, Stop: 55856, Start Num: 10
Candidate Starts for Gazebo_89:
(Start: 10 @56338 has 36 MA's), (13, 56272), (20, 56143), (24, 56131), (25, 56110), (26, 56068), (28, 56020), (29, 55969),

Gene: Grassboy_95 Start: 57263, Stop: 56781, Start Num: 10
Candidate Starts for Grassboy_95:

(Start: 10 @57263 has 36 MA's), (13, 57197), (20, 57068), (25, 57035), (26, 56993), (28, 56945), (29, 56894), (31, 56870),

Gene: Hyperion_89 Start: 56400, Stop: 55975, Start Num: 10
Candidate Starts for Hyperion_89:
(Start: 10 @56400 has 36 MA's), (12, 56340), (13, 56334), (18, 56244), (19, 56211), (26, 56148), (28, 56100),

Gene: Jehoshaphat_92 Start: 56996, Stop: 56520, Start Num: 10
Candidate Starts for Jehoshaphat_92:
(Start: 10 @56996 has 36 MA's), (13, 56930), (17, 56861), (22, 56801), (27, 56729), (28, 56684), (29, 56633), (31, 56609),

Gene: Judebell_90 Start: 56394, Stop: 55966, Start Num: 10
Candidate Starts for Judebell_90:
(Start: 10 @56394 has 36 MA's), (13, 56328), (15, 56316), (16, 56310), (18, 56235), (19, 56202), (26, 56139), (28, 56091),

Gene: Kyva_95 Start: 57287, Stop: 56805, Start Num: 10
Candidate Starts for Kyva_95:
(Start: 10 @57287 has 36 MA's), (13, 57221), (20, 57092), (25, 57059), (26, 57017), (28, 56969), (29, 56918), (31, 56894),

Gene: Llemily_90 Start: 56057, Stop: 55581, Start Num: 10
Candidate Starts for Llemily_90:
(Start: 10 @56057 has 36 MA's), (13, 55991), (17, 55922), (22, 55862), (27, 55790), (28, 55745), (29, 55694), (31, 55670),

Gene: Lonelysoil_88 Start: 55817, Stop: 55335, Start Num: 10
Candidate Starts for Lonelysoil_88:
(Start: 10 @55817 has 36 MA's), (12, 55757), (13, 55751), (20, 55622), (24, 55610), (25, 55589), (26, 55547), (28, 55499), (29, 55448),

Gene: Mashley_89 Start: 56489, Stop: 56007, Start Num: 10
Candidate Starts for Mashley_89:
(Start: 10 @56489 has 36 MA's), (12, 56429), (13, 56423), (20, 56294), (24, 56282), (25, 56261), (26, 56219), (28, 56171), (29, 56120),

Gene: Mentos_94 Start: 57451, Stop: 56975, Start Num: 10
Candidate Starts for Mentos_94:
(Start: 10 @57451 has 36 MA's), (12, 57391), (13, 57385), (17, 57316), (22, 57256), (27, 57184), (28, 57139), (29, 57088), (31, 57064),

Gene: Mila11_92 Start: 58019, Stop: 57582, Start Num: 10
Candidate Starts for Mila11_92:
(1, 58163), (Start: 10 @58019 has 36 MA's), (12, 57959), (13, 57953), (20, 57830), (25, 57797), (27, 57752), (30, 57656), (32, 57593),

Gene: MorillMayhem_90 Start: 56858, Stop: 56421, Start Num: 10
Candidate Starts for MorillMayhem_90:
(1, 57002), (Start: 10 @56858 has 36 MA's), (12, 56798), (13, 56792), (20, 56669), (25, 56636), (27, 56591), (30, 56495), (32, 56432),

Gene: Namago_92 Start: 56543, Stop: 56067, Start Num: 10
Candidate Starts for Namago_92:
(Start: 10 @56543 has 36 MA's), (13, 56477), (17, 56408), (22, 56348), (27, 56276), (28, 56231), (29, 56180), (31, 56156),

Gene: Nike_88 Start: 56615, Stop: 56190, Start Num: 10
Candidate Starts for Nike_88:
(8, 56642), (Start: 10 @56615 has 36 MA's), (13, 56549), (18, 56459), (19, 56426), (26, 56363), (28, 56315),

Gene: Phabia_90 Start: 56394, Stop: 55948, Start Num: 10
Candidate Starts for Phabia_90:
(Start: 10 @56394 has 36 MA's), (13, 56328), (15, 56316), (16, 56310), (20, 56196), (25, 56163), (26, 56121), (28, 56073),

Gene: Phinky_96 Start: 58273, Stop: 57830, Start Num: 10
Candidate Starts for Phinky_96:
(2, 58408), (3, 58387), (Start: 10 @58273 has 36 MA's), (13, 58207), (20, 58078), (25, 58045), (26, 58003), (28, 57955), (30, 57904),

Gene: Quammi_89 Start: 56124, Stop: 55687, Start Num: 10
Candidate Starts for Quammi_89:
(4, 56193), (5, 56169), (6, 56160), (7, 56154), (9, 56127), (Start: 10 @56124 has 36 MA's), (11, 56118), (16, 56040), (20, 55935), (25, 55902), (27, 55857), (28, 55812),

Gene: Rowlf_87 Start: 56210, Stop: 55728, Start Num: 10
Candidate Starts for Rowlf_87:
(Start: 10 @56210 has 36 MA's), (12, 56150), (13, 56144), (20, 56015), (25, 55982), (27, 55937), (28, 55892), (29, 55841), (31, 55817),

Gene: Rudy_88 Start: 56208, Stop: 55726, Start Num: 10
Candidate Starts for Rudy_88:
(Start: 10 @56208 has 36 MA's), (12, 56148), (13, 56142), (20, 56013), (24, 56001), (25, 55980), (26, 55938), (28, 55890), (29, 55839),

Gene: SallyK_92 Start: 57360, Stop: 56884, Start Num: 10
Candidate Starts for SallyK_92:
(Start: 10 @57360 has 36 MA's), (13, 57294), (17, 57225), (22, 57165), (27, 57093), (28, 57048), (29, 56997), (31, 56973),

Gene: Sillytadpoles_91 Start: 56045, Stop: 55569, Start Num: 10
Candidate Starts for Sillytadpoles_91:
(Start: 10 @56045 has 36 MA's), (13, 55979), (17, 55910), (22, 55850), (27, 55778), (28, 55733), (29, 55682), (31, 55658),

Gene: SlySloth_93 Start: 56411, Stop: 55971, Start Num: 10
Candidate Starts for SlySloth_93:
(1, 56555), (Start: 10 @56411 has 36 MA's), (13, 56345), (15, 56333), (16, 56327), (18, 56252), (21, 56213), (25, 56186), (27, 56141), (28, 56096),

Gene: Squash_93 Start: 57002, Stop: 56577, Start Num: 10
Candidate Starts for Squash_93:

(1, 57146), (Start: 10 @57002 has 36 MA's), (12, 56942), (13, 56936), (18, 56846), (19, 56813), (26, 56750), (28, 56702),

Gene: Statler_93 Start: 56779, Stop: 56336, Start Num: 10
Candidate Starts for Statler_93:
(Start: 10 @56779 has 36 MA's), (12, 56719), (13, 56713), (20, 56584), (25, 56551), (26, 56509), (28, 56461),

Gene: StrawberryJamm_96 Start: 56314, Stop: 55871, Start Num: 10
Candidate Starts for StrawberryJamm_96:
(Start: 10 @56314 has 36 MA's), (13, 56248), (20, 56119), (25, 56086), (26, 56044), (28, 55996),

Gene: Teehee_91 Start: 56993, Stop: 56517, Start Num: 10
Candidate Starts for Teehee_91:
(Start: 10 @56993 has 36 MA's), (13, 56927), (17, 56858), (22, 56798), (27, 56726), (28, 56681), (29, 56630), (31, 56606),

Gene: Tissue_92 Start: 56701, Stop: 56225, Start Num: 10
Candidate Starts for Tissue_92:
(8, 56728), (Start: 10 @56701 has 36 MA's), (12, 56641), (13, 56635), (17, 56566), (22, 56506), (27, 56434), (28, 56389), (29, 56338), (31, 56314),

Gene: Viceroy_88 Start: 55945, Stop: 55508, Start Num: 10
Candidate Starts for Viceroy_88:
(4, 56014), (5, 55990), (6, 55981), (7, 55975), (9, 55948), (Start: 10 @55945 has 36 MA's), (11, 55939), (16, 55861), (20, 55756), (25, 55723), (27, 55678), (28, 55633),

Gene: Wayne3_92 Start: 56963, Stop: 56517, Start Num: 10
Candidate Starts for Wayne3_92:
(Start: 10 @56963 has 36 MA's), (13, 56897), (15, 56885), (16, 56879), (20, 56765), (25, 56732), (26, 56690), (28, 56642),

Gene: WheelerS25_94 Start: 56807, Stop: 56304, Start Num: 8
Candidate Starts for WheelerS25_94:
(8, 56807), (Start: 10 @56780 has 36 MA's), (13, 56714), (17, 56645), (22, 56585), (27, 56513), (28, 56468), (29, 56417), (31, 56393),

Gene: Wheelie_90 Start: 56284, Stop: 55838, Start Num: 10
Candidate Starts for Wheelie_90:
(Start: 10 @56284 has 36 MA's), (13, 56218), (15, 56206), (16, 56200), (20, 56086), (25, 56053), (26, 56011), (28, 55963),

Gene: Zagie_92 Start: 56805, Stop: 56329, Start Num: 10
Candidate Starts for Zagie_92:
(Start: 10 @56805 has 36 MA's), (13, 56739), (17, 56670), (22, 56610), (27, 56538), (28, 56493), (29, 56442), (31, 56418),

Gene: Zhafia_93 Start: 56839, Stop: 56363, Start Num: 10
Candidate Starts for Zhafia_93:
(Start: 10 @56839 has 36 MA's), (13, 56773), (17, 56704), (22, 56644), (27, 56572), (28, 56527), (29, 56476), (31, 56452),