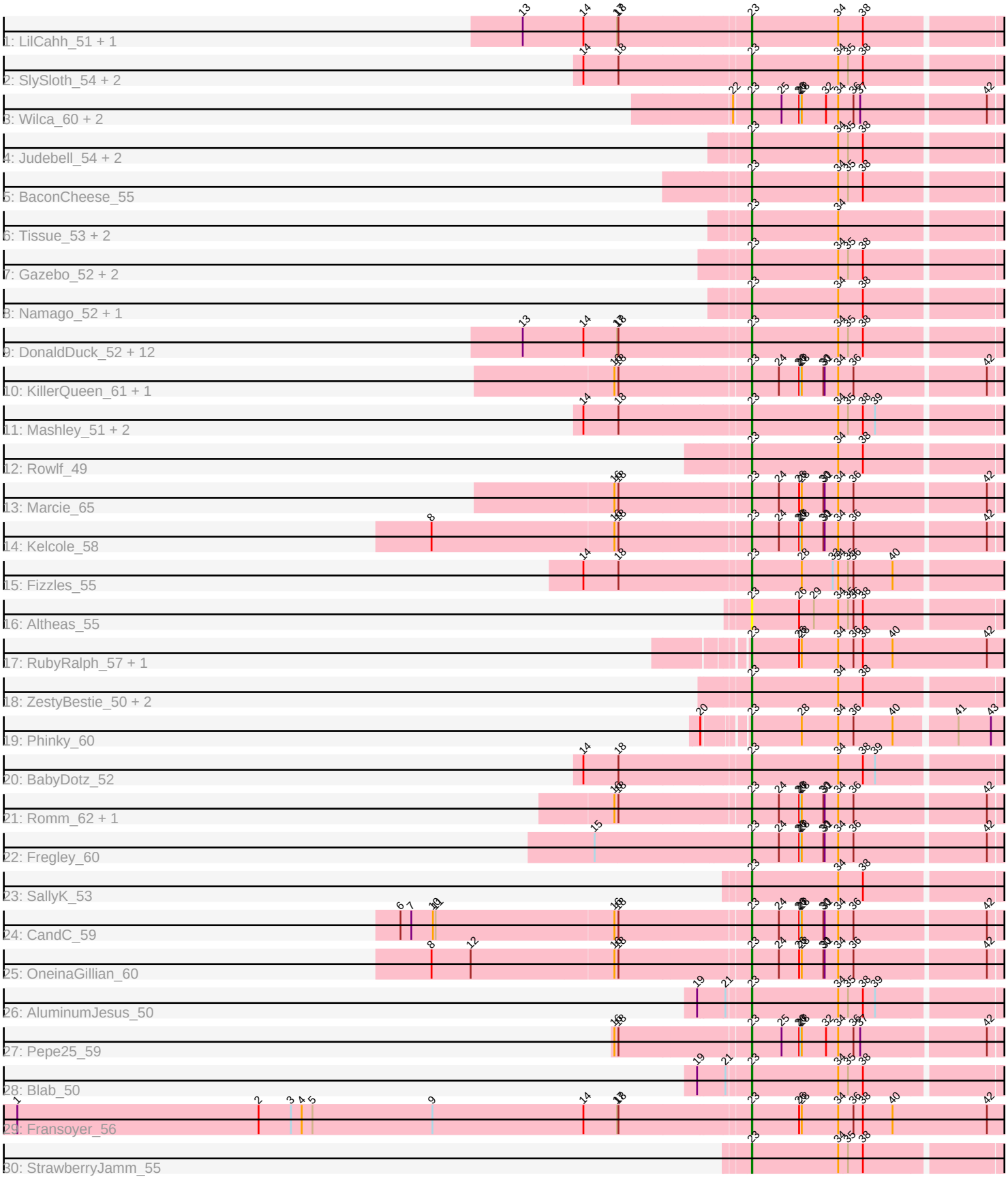
Pham 347632


1: LilCahh_51 + 1
2: SlySloth_54 + 2
3: Wilca_60 + 2
4: Judebell_54 + 2
5: BaconCheese_55
6: Tissue_53 + 2
7: Gazebo_52 + 2
8: Namago_52 + 1
9: DonaldDuck_52 + 12
10: KillerQueen_61 + 1
11: Mashley_51 + 2
12: Rowlf_49
13: Marcie_65
14: Kelcole_58
15: Fizzles_55
16: Altheas_55
17: RubyRalph_57 + 1
18: ZestyBestie_50 + 2
19: Phinky_60
20: BabyDotz_52
21: Romm_62 + 1
22: Fregley_60
23: SallyK_53
24: CandC_59
25: OneinaGillian_60
26: AluminumJesus_50
27: Pepe25_59
28: Blab_50
29: Fransoyer_56
30: StrawberryJamm_55

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 347632 Report

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

Pham number 347632 has 61 members, 5 are drafts.

Phages represented in each track:
• Track 1 : LilCahh_51, EverythinBagel_51
• Track 2 : SlySloth_54, Nike_53, Squash_55
• Track 3 : Wilca_60, Spiderpig_60, BirdInFrench_60
• Track 4 : Judebell_54, Mentos_54, WheelerS25_58
• Track 5 : BaconCheese_55
• Track 6 : Tissue_53, Grassboy_54, Zagie_52
• Track 7 : Gazebo_52, MorillMayhem_53, Mila11_55
• Track 8 : Namago_52, Kyva_54
• Track 9 : DonaldDuck_52, Quammi_50, Viceroy_51, Rudy_50, Wheelie_52, Casend_53, Wayne3_54, Jehoshaphat_54, Llemily_52, Teehee_53, Zhafia_55, Sillytadpoles_53, Phabia_52
• Track 10 : KillerQueen_61, Tempo_60
• Track 11 : Mashley_51, Hyperion_52, Lonelysoil_51
• Track 12 : Rowlf_49
• Track 13 : Marcie_65
• Track 14 : Kelcole_58
• Track 15 : Fizzles_55
• Track 16 : Altheas_55
• Track 17 : RubyRalph_57, SadLad_58
• Track 18 : ZestyBestie_50, Statler_54, FrankDeliGuy_49
• Track 19 : Phinky_60
• Track 20 : BabyDotz_52
• Track 21 : Romm_62, RobinRose_62
• Track 22 : Fregley_60
• Track 23 : SallyK_53
• Track 24 : CandC_59
• Track 25 : OneinaGillian_60
• Track 26 : AluminumJesus_50
• Track 27 : Pepe25_59
• Track 28 : Blab_50
• Track 29 : Fransoyer_56
• Track 30 : StrawberryJamm_55

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

The start number called the most often in the published annotations is 23, it was called in 56 of the 56 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_55, AluminumJesus_50, BabyDotz_52, BaconCheese_55, BirdInFrench_60, Blab_50, CandC_59, Casend_53, DonaldDuck_52, EverythinBagel_51, Fizzles_55, FrankDeliGuy_49, Fransoyer_56, Fregley_60, Gazebo_52, Grassboy_54, Hyperion_52, Jehoshaphat_54, Judebell_54, Kelcole_58, KillerQueen_61, Kyva_54, LilCahh_51, Llemily_52, Lonelysoil_51, Marcie_65, Mashley_51, Mentos_54, Mila11_55, MorillMayhem_53, Namago_52, Nike_53, OneinaGillian_60, Pepe25_59, Phabia_52, Phinky_60, Quammi_50, RobinRose_62, Romm_62, Rowlf_49, RubyRalph_57, Rudy_50, SadLad_58, SallyK_53, Sillytadpoles_53, SlySloth_54, Spiderpig_60, Squash_55, Statler_54, StrawberryJamm_55, Teehee_53, Tempo_60, Tissue_53, Viceroy_51, Wayne3_54, WheelerS25_58, Wheelie_52, Wilca_60, Zagie_52, ZestyBestie_50, Zhafia_55,

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

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

Summary by start number:

Start 23:
• Found in 61 of 61 (100.0%) of genes in pham
• Manual Annotations of this start: 56 of 56
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_55 (EG), AluminumJesus_50 (EG), BabyDotz_52 (EG), BaconCheese_55 (EG), BirdInFrench_60 (EG), Blab_50 (EG), CandC_59 (EG), Casend_53 (EG), DonaldDuck_52 (EG), EverythinBagel_51 (EG), Fizzles_55 (EG), FrankDeliGuy_49 (EG), Fransoyer_56 (EG), Fregley_60 (EG), Gazebo_52 (EG), Grassboy_54 (EG), Hyperion_52 (EG), Jehoshaphat_54 (EG), Judebell_54 (EG), Kelcole_58 (EG), KillerQueen_61 (EG), Kyva_54 (EG), LilCahh_51 (EG), Llemily_52 (EG), Lonelysoil_51 (EG), Marcie_65 (EG), Mashley_51 (EG), Mentos_54 (EG), Mila11_55 (EG), MorillMayhem_53 (EG), Namago_52 (EG), Nike_53 (EG), OneinaGillian_60 (EG), Pepe25_59 (EG), Phabia_52 (EG), Phinky_60 (EG), Quammi_50 (EG), RobinRose_62 (EG), Romm_62 (EG), Rowlf_49 (EG), RubyRalph_57 (EG), Rudy_50 (EG), SadLad_58 (EG), SallyK_53 (EG), Sillytadpoles_53 (EG), SlySloth_54 (EG), Spiderpig_60 (EG), Squash_55 (EG), Statler_54 (EG), StrawberryJamm_55 (EG), Teehee_53 (EG), Tempo_60 (EG), Tissue_53 (EG), Viceroy_51 (EG), Wayne3_54 (EG), WheelerS25_58 (EG), Wheelie_52 (EG), Wilca_60 (EG), Zagie_52 (EG), ZestyBestie_50 (EG), Zhafia_55 (EG),

Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:
•Start number 23 was manually annotated 56 times for cluster EG.

Gene Information:

Gene: Altheas_55 Start: 41582, Stop: 41049, Start Num: 23
Candidate Starts for Altheas_55:
(Start: 23 @41582 has 56 MA's), (26, 41477), (29, 41444), (34, 41390), (35, 41372), (36, 41360), (38, 41339),

Gene: AluminumJesus_50 Start: 40557, Stop: 40024, Start Num: 23
Candidate Starts for AluminumJesus_50:
(19, 40662), (21, 40602), (Start: 23 @40557 has 56 MA's), (34, 40365), (35, 40347), (38, 40314), (39, 40287),

Gene: BabyDotz_52 Start: 41571, Stop: 41038, Start Num: 23
Candidate Starts for BabyDotz_52:
(14, 41922), (18, 41844), (Start: 23 @41571 has 56 MA's), (34, 41379), (38, 41328), (39, 41301),

Gene: BaconCheese_55 Start: 42464, Stop: 41931, Start Num: 23
Candidate Starts for BaconCheese_55:
(Start: 23 @42464 has 56 MA's), (34, 42272), (35, 42254), (38, 42221),

Gene: BirdInFrench_60 Start: 41682, Stop: 41146, Start Num: 23
Candidate Starts for BirdInFrench_60:
(22, 41715), (Start: 23 @41682 has 56 MA's), (25, 41616), (26, 41577), (27, 41574), (28, 41571), (32, 41517), (34, 41490), (36, 41457), (37, 41442), (42, 41175),

Gene: Blab_50 Start: 40404, Stop: 39871, Start Num: 23
Candidate Starts for Blab_50:
(19, 40509), (21, 40449), (Start: 23 @40404 has 56 MA's), (34, 40212), (35, 40194), (38, 40161),

Gene: CandC_59 Start: 41331, Stop: 40795, Start Num: 23
Candidate Starts for CandC_59:
(6, 42081), (7, 42057), (10, 42009), (11, 42003), (16, 41613), (18, 41607), (Start: 23 @41331 has 56 MA's), (24, 41271), (26, 41226), (27, 41223), (28, 41220), (30, 41172), (31, 41169), (34, 41139), (36, 41106), (42, 40824),

Gene: Casend_53 Start: 41375, Stop: 40842, Start Num: 23
Candidate Starts for Casend_53:
(13, 41864), (14, 41729), (17, 41654), (18, 41651), (Start: 23 @41375 has 56 MA's), (34, 41183), (35, 41165), (38, 41132),

Gene: DonaldDuck_52 Start: 40724, Stop: 40191, Start Num: 23
Candidate Starts for DonaldDuck_52:
(13, 41213), (14, 41078), (17, 41003), (18, 41000), (Start: 23 @40724 has 56 MA's), (34, 40532), (35, 40514), (38, 40481),

Gene: EverythinBagel_51 Start: 41085, Stop: 40552, Start Num: 23
Candidate Starts for EverythinBagel_51:
(13, 41574), (14, 41439), (17, 41364), (18, 41361), (Start: 23 @41085 has 56 MA's), (34, 40893), (38, 40842),

Gene: Fizzles_55 Start: 41709, Stop: 41167, Start Num: 23

Candidate Starts for Fizzles_55:
(14, 42063), (18, 41985), (Start: 23 @41709 has 56 MA's), (28, 41598), (33, 41529), (34, 41517), (35, 41499), (36, 41487), (40, 41400),

Gene: FrankDeliGuy_49 Start: 40705, Stop: 40172, Start Num: 23
Candidate Starts for FrankDeliGuy_49:
(Start: 23 @40705 has 56 MA's), (34, 40513), (38, 40462),

Gene: Fransoyer_56 Start: 43297, Stop: 42740, Start Num: 23
Candidate Starts for Fransoyer_56:
(1, 44917), (2, 44380), (3, 44308), (4, 44284), (5, 44260), (9, 43993), (14, 43657), (17, 43582), (18, 43579), (Start: 23 @43297 has 56 MA's), (26, 43192), (28, 43186), (34, 43105), (36, 43075), (38, 43054), (40, 42988), (42, 42778),

Gene: Fregley_60 Start: 41596, Stop: 41060, Start Num: 23
Candidate Starts for Fregley_60:
(15, 41938), (Start: 23 @41596 has 56 MA's), (24, 41536), (26, 41491), (27, 41488), (28, 41485), (30, 41437), (31, 41434), (34, 41404), (36, 41371), (42, 41089),

Gene: Gazebo_52 Start: 41255, Stop: 40722, Start Num: 23
Candidate Starts for Gazebo_52:
(Start: 23 @41255 has 56 MA's), (34, 41063), (35, 41045), (38, 41012),

Gene: Grassboy_54 Start: 41195, Stop: 40662, Start Num: 23
Candidate Starts for Grassboy_54:
(Start: 23 @41195 has 56 MA's), (34, 41003),

Gene: Hyperion_52 Start: 41032, Stop: 40499, Start Num: 23
Candidate Starts for Hyperion_52:
(14, 41383), (18, 41305), (Start: 23 @41032 has 56 MA's), (34, 40840), (35, 40822), (38, 40789), (39, 40762),

Gene: Jehoshaphat_54 Start: 41643, Stop: 41110, Start Num: 23
Candidate Starts for Jehoshaphat_54:
(13, 42132), (14, 41997), (17, 41922), (18, 41919), (Start: 23 @41643 has 56 MA's), (34, 41451), (35, 41433), (38, 41400),

Gene: Judebell_54 Start: 41095, Stop: 40562, Start Num: 23
Candidate Starts for Judebell_54:
(Start: 23 @41095 has 56 MA's), (34, 40903), (35, 40885), (38, 40852),

Gene: Kelcole_58 Start: 41559, Stop: 41023, Start Num: 23
Candidate Starts for Kelcole_58:
(8, 42240), (16, 41841), (18, 41835), (Start: 23 @41559 has 56 MA's), (24, 41499), (26, 41454), (27, 41451), (28, 41448), (30, 41400), (31, 41397), (34, 41367), (36, 41334), (42, 41052),

Gene: KillerQueen_61 Start: 41809, Stop: 41273, Start Num: 23
Candidate Starts for KillerQueen_61:
(16, 42091), (18, 42085), (Start: 23 @41809 has 56 MA's), (24, 41749), (26, 41704), (27, 41701), (28, 41698), (30, 41650), (31, 41647), (34, 41617), (36, 41584), (42, 41302),

Gene: Kyva_54 Start: 41252, Stop: 40719, Start Num: 23
Candidate Starts for Kyva_54:

(Start: 23 @41252 has 56 MA's), (34, 41060), (38, 41009),

Gene: LilCahh_51 Start: 40713, Stop: 40180, Start Num: 23
Candidate Starts for LilCahh_51:
(13, 41202), (14, 41067), (17, 40992), (18, 40989), (Start: 23 @40713 has 56 MA's), (34, 40521), (38, 40470),

Gene: Llemily_52 Start: 40419, Stop: 39886, Start Num: 23
Candidate Starts for Llemily_52:
(13, 40908), (14, 40773), (17, 40698), (18, 40695), (Start: 23 @40419 has 56 MA's), (34, 40227), (35, 40209), (38, 40176),

Gene: Lonelysoil_51 Start: 40628, Stop: 40095, Start Num: 23
Candidate Starts for Lonelysoil_51:
(14, 40979), (18, 40901), (Start: 23 @40628 has 56 MA's), (34, 40436), (35, 40418), (38, 40385), (39, 40358),

Gene: Marcie_65 Start: 42458, Stop: 41922, Start Num: 23
Candidate Starts for Marcie_65:
(16, 42740), (18, 42734), (Start: 23 @42458 has 56 MA's), (24, 42398), (26, 42353), (28, 42347), (30, 42299), (31, 42296), (34, 42266), (36, 42233), (42, 41951),

Gene: Mashley_51 Start: 40811, Stop: 40278, Start Num: 23
Candidate Starts for Mashley_51:
(14, 41162), (18, 41084), (Start: 23 @40811 has 56 MA's), (34, 40619), (35, 40601), (38, 40568), (39, 40541),

Gene: Mentos_54 Start: 42003, Stop: 41470, Start Num: 23
Candidate Starts for Mentos_54:
(Start: 23 @42003 has 56 MA's), (34, 41811), (35, 41793), (38, 41760),

Gene: Mila11_55 Start: 42279, Stop: 41746, Start Num: 23
Candidate Starts for Mila11_55:
(Start: 23 @42279 has 56 MA's), (34, 42087), (35, 42069), (38, 42036),

Gene: MorillMayhem_53 Start: 41156, Stop: 40623, Start Num: 23
Candidate Starts for MorillMayhem_53:
(Start: 23 @41156 has 56 MA's), (34, 40964), (35, 40946), (38, 40913),

Gene: Namago_52 Start: 40373, Stop: 39840, Start Num: 23
Candidate Starts for Namago_52:
(Start: 23 @40373 has 56 MA's), (34, 40181), (38, 40130),

Gene: Nike_53 Start: 41346, Stop: 40813, Start Num: 23
Candidate Starts for Nike_53:
(14, 41697), (18, 41619), (Start: 23 @41346 has 56 MA's), (34, 41154), (35, 41136), (38, 41103),

Gene: OneinaGillian_60 Start: 41461, Stop: 40925, Start Num: 23
Candidate Starts for OneinaGillian_60:
(8, 42142), (12, 42055), (16, 41743), (18, 41737), (Start: 23 @41461 has 56 MA's), (24, 41401), (26, 41356), (28, 41350), (30, 41302), (31, 41299), (34, 41269), (36, 41236), (42, 40954),

Gene: Pepe25_59 Start: 40992, Stop: 40456, Start Num: 23

Candidate Starts for Pepe25_59:
(16, 41274), (18, 41268), (Start: 23 @40992 has 56 MA's), (25, 40926), (26, 40887), (27, 40884), (28, 40881), (32, 40827), (34, 40800), (36, 40767), (37, 40752), (42, 40485),

Gene: Phabia_52 Start: 40834, Stop: 40301, Start Num: 23
Candidate Starts for Phabia_52:
(13, 41323), (14, 41188), (17, 41113), (18, 41110), (Start: 23 @40834 has 56 MA's), (34, 40642), (35, 40624), (38, 40591),

Gene: Phinky_60 Start: 42967, Stop: 42434, Start Num: 23
Candidate Starts for Phinky_60:
(20, 43045), (Start: 23 @42967 has 56 MA's), (28, 42856), (34, 42775), (36, 42745), (40, 42658), (41, 42532), (43, 42463),

Gene: Quammi_50 Start: 40534, Stop: 40001, Start Num: 23
Candidate Starts for Quammi_50:
(13, 41023), (14, 40888), (17, 40813), (18, 40810), (Start: 23 @40534 has 56 MA's), (34, 40342), (35, 40324), (38, 40291),

Gene: RobinRose_62 Start: 41973, Stop: 41437, Start Num: 23
Candidate Starts for RobinRose_62:
(16, 42255), (18, 42249), (Start: 23 @41973 has 56 MA's), (24, 41913), (26, 41868), (27, 41865), (28, 41862), (30, 41814), (31, 41811), (34, 41781), (36, 41748), (42, 41466),

Gene: Romm_62 Start: 41970, Stop: 41434, Start Num: 23
Candidate Starts for Romm_62:
(16, 42252), (18, 42246), (Start: 23 @41970 has 56 MA's), (24, 41910), (26, 41865), (27, 41862), (28, 41859), (30, 41811), (31, 41808), (34, 41778), (36, 41745), (42, 41463),

Gene: Rowlf_49 Start: 40488, Stop: 39955, Start Num: 23
Candidate Starts for Rowlf_49:
(Start: 23 @40488 has 56 MA's), (34, 40296), (38, 40245),

Gene: RubyRalph_57 Start: 43444, Stop: 42887, Start Num: 23
Candidate Starts for RubyRalph_57:
(Start: 23 @43444 has 56 MA's), (26, 43339), (28, 43333), (34, 43252), (36, 43222), (38, 43201), (40, 43135), (42, 42925),

Gene: Rudy_50 Start: 40570, Stop: 40037, Start Num: 23
Candidate Starts for Rudy_50:
(13, 41059), (14, 40924), (17, 40849), (18, 40846), (Start: 23 @40570 has 56 MA's), (34, 40378), (35, 40360), (38, 40327),

Gene: SadLad_58 Start: 44298, Stop: 43741, Start Num: 23
Candidate Starts for SadLad_58:
(Start: 23 @44298 has 56 MA's), (26, 44193), (28, 44187), (34, 44106), (36, 44076), (38, 44055), (40, 43989), (42, 43779),

Gene: SallyK_53 Start: 41489, Stop: 40956, Start Num: 23
Candidate Starts for SallyK_53:
(Start: 23 @41489 has 56 MA's), (34, 41297), (38, 41246),

Gene: Sillytadpoles_53 Start: 40407, Stop: 39874, Start Num: 23

Candidate Starts for Sillytadpoles_53:
(13, 40896), (14, 40761), (17, 40686), (18, 40683), (Start: 23 @40407 has 56 MA's), (34, 40215), (35, 40197), (38, 40164),

Gene: SlySloth_54 Start: 41132, Stop: 40599, Start Num: 23
Candidate Starts for SlySloth_54:
(14, 41483), (18, 41405), (Start: 23 @41132 has 56 MA's), (34, 40940), (35, 40922), (38, 40889),

Gene: Spiderpig_60 Start: 41671, Stop: 41135, Start Num: 23
Candidate Starts for Spiderpig_60:
(22, 41704), (Start: 23 @41671 has 56 MA's), (25, 41605), (26, 41566), (27, 41563), (28, 41560), (32, 41506), (34, 41479), (36, 41446), (37, 41431), (42, 41164),

Gene: Squash_55 Start: 41205, Stop: 40672, Start Num: 23
Candidate Starts for Squash_55:
(14, 41556), (18, 41478), (Start: 23 @41205 has 56 MA's), (34, 41013), (35, 40995), (38, 40962),

Gene: Statler_54 Start: 41207, Stop: 40674, Start Num: 23
Candidate Starts for Statler_54:
(Start: 23 @41207 has 56 MA's), (34, 41015), (38, 40964),

Gene: StrawberryJamm_55 Start: 40667, Stop: 40134, Start Num: 23
Candidate Starts for StrawberryJamm_55:
(Start: 23 @40667 has 56 MA's), (34, 40475), (35, 40457), (38, 40424),

Gene: Teehee_53 Start: 41640, Stop: 41107, Start Num: 23
Candidate Starts for Teehee_53:
(13, 42129), (14, 41994), (17, 41919), (18, 41916), (Start: 23 @41640 has 56 MA's), (34, 41448), (35, 41430), (38, 41397),

Gene: Tempo_60 Start: 41838, Stop: 41302, Start Num: 23
Candidate Starts for Tempo_60:
(16, 42120), (18, 42114), (Start: 23 @41838 has 56 MA's), (24, 41778), (26, 41733), (27, 41730), (28, 41727), (30, 41679), (31, 41676), (34, 41646), (36, 41613), (42, 41331),

Gene: Tissue_53 Start: 41091, Stop: 40558, Start Num: 23
Candidate Starts for Tissue_53:
(Start: 23 @41091 has 56 MA's), (34, 40899),

Gene: Viceroy_51 Start: 40540, Stop: 40007, Start Num: 23
Candidate Starts for Viceroy_51:
(13, 41029), (14, 40894), (17, 40819), (18, 40816), (Start: 23 @40540 has 56 MA's), (34, 40348), (35, 40330), (38, 40297),

Gene: Wayne3_54 Start: 41403, Stop: 40870, Start Num: 23
Candidate Starts for Wayne3_54:
(13, 41892), (14, 41757), (17, 41682), (18, 41679), (Start: 23 @41403 has 56 MA's), (34, 41211), (35, 41193), (38, 41160),

Gene: WheelerS25_58 Start: 41981, Stop: 41448, Start Num: 23
Candidate Starts for WheelerS25_58:
(Start: 23 @41981 has 56 MA's), (34, 41789), (35, 41771), (38, 41738),

Gene: Wheelie_52 Start: 40724, Stop: 40191, Start Num: 23
Candidate Starts for Wheelie_52:
(13, 41213), (14, 41078), (17, 41003), (18, 41000), (Start: 23 @40724 has 56 MA's), (34, 40532), (35, 40514), (38, 40481),

Gene: Wilca_60 Start: 41682, Stop: 41146, Start Num: 23
Candidate Starts for Wilca_60:
(22, 41715), (Start: 23 @41682 has 56 MA's), (25, 41616), (26, 41577), (27, 41574), (28, 41571), (32, 41517), (34, 41490), (36, 41457), (37, 41442), (42, 41175),

Gene: Zagie_52 Start: 40873, Stop: 40340, Start Num: 23
Candidate Starts for Zagie_52:
(Start: 23 @40873 has 56 MA's), (34, 40681),

Gene: ZestyBestie_50 Start: 40700, Stop: 40167, Start Num: 23
Candidate Starts for ZestyBestie_50:
(Start: 23 @40700 has 56 MA's), (34, 40508), (38, 40457),

Gene: Zhafia_55 Start: 41204, Stop: 40671, Start Num: 23
Candidate Starts for Zhafia_55:
(13, 41693), (14, 41558), (17, 41483), (18, 41480), (Start: 23 @41204 has 56 MA's), (34, 41012), (35, 40994), (38, 40961),