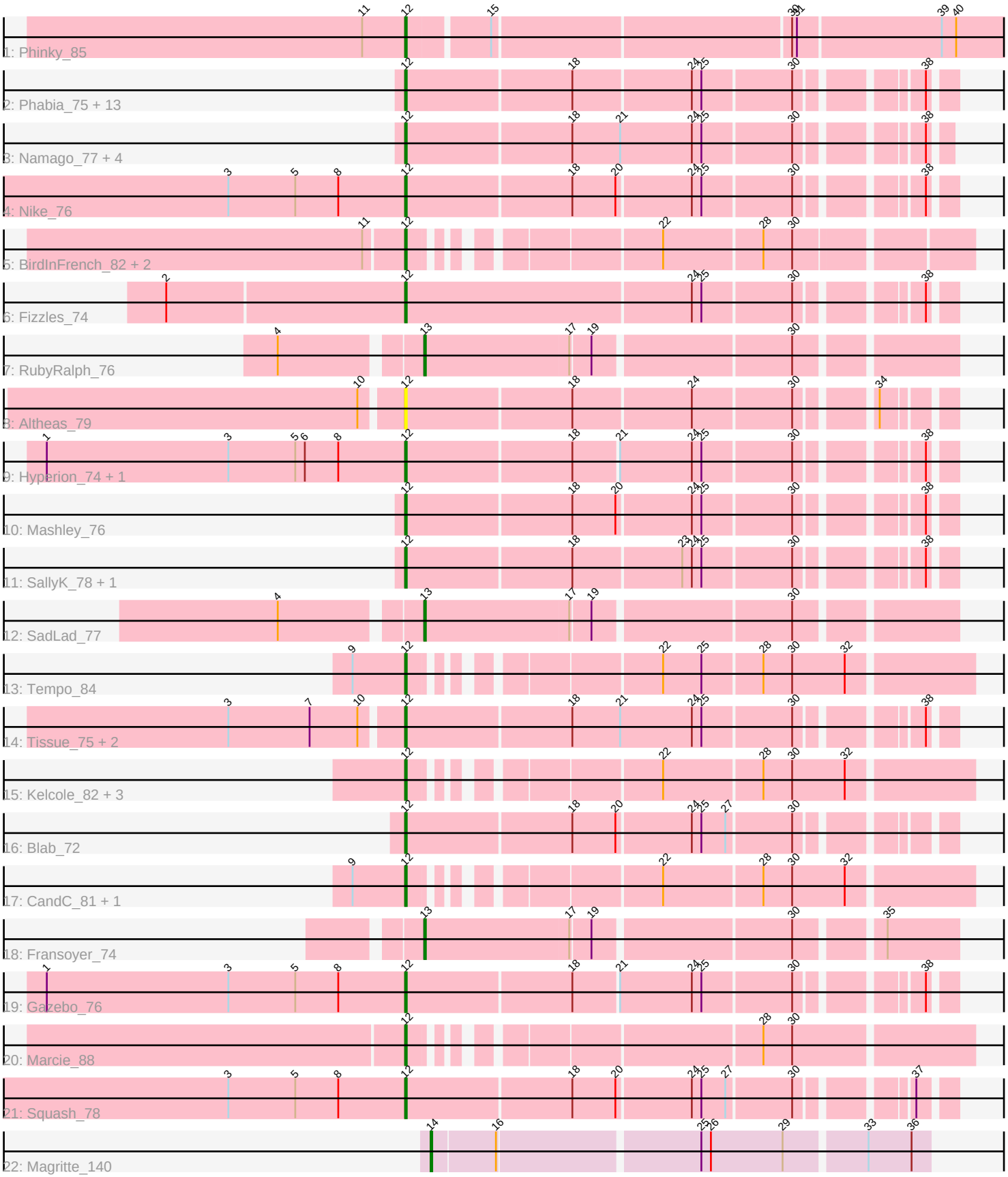
Pham 161929


1: Phinky_85
2: Phabia_75 + 13
3: Namago_77 + 4
4: Nike_76
5: BirdInFrench_82 + 2
6: Fizzles_74
7: RubyRalph_76
8: Altheas_79
9: Hyperion_74 + 1
10: Mashley_76
11: SallyK_78 + 1
12: SadLad_77
13: Tempo_84
14: Tissue_75 + 2
15: Kelcole_82 + 3
16: Blab_72
17: CandC_81 + 1
18: Fransoyer_74
19: Gazebo_76
20: Marcie_88
21: Squash_78
22: Magritte_140

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 161929 Report

This analysis was run 05/04/24 on database version 560.

Pham number 161929 has 49 members, 12 are drafts.

Phages represented in each track:
• Track 1 : Phinky_85
• Track 2 : Phabia_75, Judebell_78, Quammi_74, Zhafia_80, Zagie_76, BabyDotz_73, Rudy_73, Lonelysoil_73, Casend_76, Wayne3_77, Wheelie_75, Teehee_76, StrawberryJamm_80, Jehoshaphat_77
• Track 3 : Namago_77, DonaldDuck_77, Viceroy_74, Llemily_77, Sillytadpoles_78
• Track 4 : Nike_76
• Track 5 : BirdInFrench_82, Wilca_82, Pepe25_80
• Track 6 : Fizzles_74
• Track 7 : RubyRalph_76
• Track 8 : Altheas_79
• Track 9 : Hyperion_74, AluminumJesus_72
• Track 10 : Mashley_76
• Track 11 : SallyK_78, Rowlf_76
• Track 12 : SadLad_77
• Track 13 : Tempo_84
• Track 14 : Tissue_75, Grassboy_79, Kyva_78
• Track 15 : Kelcole_82, Romm_86, RobinRose_86, OneinaGillian_81
• Track 16 : Blab_72
• Track 17 : CandC_81, Fregley_84
• Track 18 : Fransoyer_74
• Track 19 : Gazebo_76
• Track 20 : Marcie_88
• Track 21 : Squash_78
• Track 22 : Magritte_140

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

The start number called the most often in the published annotations is 12, it was called in 33 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_79, AluminumJesus_72, BabyDotz_73, BirdInFrench_82, Blab_72, CandC_81, Casend_76, DonaldDuck_77, Fizzles_74, Fregley_84, Gazebo_76, Grassboy_79, Hyperion_74, Jehoshaphat_77, Judebell_78, Kelcole_82, Kyva_78,

Llemily_77, Lonelysoil_73, Marcie_88, Mashley_76, Namago_77, Nike_76, OneinaGillian_81, Pepe25_80, Phabia_75, Phinky_85, Quammi_74, RobinRose_86, Romm_86, Rowlf_76, Rudy_73, SallyK_78, Sillytadpoles_78, Squash_78, StrawberryJamm_80, Teehee_76, Tempo_84, Tissue_75, Viceroy_74, Wayne3_77, Wheelie_75, Wilca_82, Zagie_76, Zhafia_80,

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

Genes that do not have the "Most Annotated" start:
• Fransoyer_74, Magritte_140, RubyRalph_76, SadLad_77,

Summary by start number:

Start 12:
• Found in 45 of 49 (91.8%) of genes in pham
• Manual Annotations of this start: 33 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_79 (EG), AluminumJesus_72 (EG), BabyDotz_73 (EG), BirdInFrench_82 (EG), Blab_72 (EG), CandC_81 (EG), Casend_76 (EG), DonaldDuck_77 (EG), Fizzles_74 (EG), Fregley_84 (EG), Gazebo_76 (EG), Grassboy_79 (EG), Hyperion_74 (EG), Jehoshaphat_77 (EG), Judebell_78 (EG), Kelcole_82 (EG), Kyva_78 (EG), Llemily_77 (EG), Lonelysoil_73 (EG), Marcie_88 (EG), Mashley_76 (EG), Namago_77 (EG), Nike_76 (EG), OneinaGillian_81 (EG), Pepe25_80 (EG), Phabia_75 (EG), Phinky_85 (EG), Quammi_74 (EG), RobinRose_86 (EG), Romm_86 (EG), Rowlf_76 (EG), Rudy_73 (EG), SallyK_78 (EG), Sillytadpoles_78 (EG), Squash_78 (EG), StrawberryJamm_80 (EG), Teehee_76 (EG), Tempo_84 (EG), Tissue_75 (EG), Viceroy_74 (EG), Wayne3_77 (EG), Wheelie_75 (EG), Wilca_82 (EG), Zagie_76 (EG), Zhafia_80 (EG),

Start 13:
• Found in 3 of 49 (6.1%) of genes in pham
• Manual Annotations of this start: 3 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fransoyer_74 (EG), RubyRalph_76 (EG), SadLad_77 (EG),

Start 14:
• Found in 1 of 49 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Magritte_140 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: EG, singleton,

Info for manual annotations of cluster EG:
•Start number 12 was manually annotated 33 times for cluster EG.
•Start number 13 was manually annotated 3 times for cluster EG.

Gene Information:

Gene: Altheas_79 Start: 51911, Stop: 51600, Start Num: 12
Candidate Starts for Altheas_79:
(10, 51935), (Start: 12 @51911 has 33 MA's), (18, 51809), (24, 51737), (30, 51677), (34, 51638),

Gene: AluminumJesus_72 Start: 50517, Stop: 50206, Start Num: 12
Candidate Starts for AluminumJesus_72:
(1, 50742), (3, 50628), (5, 50586), (6, 50580), (8, 50559), (Start: 12 @50517 has 33 MA's), (18, 50415), (21, 50388), (24, 50343), (25, 50337), (30, 50283), (38, 50220),

Gene: BabyDotz_73 Start: 51913, Stop: 51602, Start Num: 12
Candidate Starts for BabyDotz_73:
(Start: 12 @51913 has 33 MA's), (18, 51811), (24, 51739), (25, 51733), (30, 51679), (38, 51616),

Gene: BirdInFrench_82 Start: 52570, Stop: 52265, Start Num: 12
Candidate Starts for BirdInFrench_82:
(11, 52594), (Start: 12 @52570 has 33 MA's), (22, 52444), (28, 52384), (30, 52366),

Gene: Blab_72 Start: 50808, Stop: 50497, Start Num: 12
Candidate Starts for Blab_72:
(Start: 12 @50808 has 33 MA's), (18, 50706), (20, 50679), (24, 50634), (25, 50628), (27, 50613), (30, 50574),

Gene: CandC_81 Start: 52207, Stop: 51896, Start Num: 12
Candidate Starts for CandC_81:
(9, 52240), (Start: 12 @52207 has 33 MA's), (22, 52081), (28, 52021), (30, 52003), (32, 51970),

Gene: Casend_76 Start: 51470, Stop: 51159, Start Num: 12
Candidate Starts for Casend_76:
(Start: 12 @51470 has 33 MA's), (18, 51368), (24, 51296), (25, 51290), (30, 51236), (38, 51173),

Gene: DonaldDuck_77 Start: 50822, Stop: 50508, Start Num: 12
Candidate Starts for DonaldDuck_77:
(Start: 12 @50822 has 33 MA's), (18, 50720), (21, 50690), (24, 50645), (25, 50639), (30, 50585), (38, 50522),

Gene: Fizzles_74 Start: 50820, Stop: 50506, Start Num: 12
Candidate Starts for Fizzles_74:
(2, 50967), (Start: 12 @50820 has 33 MA's), (24, 50643), (25, 50637), (30, 50583), (38, 50520),

Gene: Fransoyer_74 Start: 51279, Stop: 50968, Start Num: 13
Candidate Starts for Fransoyer_74:
(Start: 13 @51279 has 3 MA's), (17, 51189), (19, 51177), (30, 51060), (35, 51012),

Gene: Fregley_84 Start: 52556, Stop: 52245, Start Num: 12
Candidate Starts for Fregley_84:
(9, 52589), (Start: 12 @52556 has 33 MA's), (22, 52430), (28, 52370), (30, 52352), (32, 52319),

Gene: Gazebo_76 Start: 51735, Stop: 51424, Start Num: 12
Candidate Starts for Gazebo_76:
(1, 51960), (3, 51846), (5, 51804), (8, 51777), (Start: 12 @51735 has 33 MA's), (18, 51633), (21, 51606), (24, 51561), (25, 51555), (30, 51501), (38, 51438),

Gene: Grassboy_79 Start: 51602, Stop: 51288, Start Num: 12
Candidate Starts for Grassboy_79:
(3, 51707), (7, 51656), (10, 51626), (Start: 12 @51602 has 33 MA's), (18, 51500), (21, 51470), (24, 51425), (25, 51419), (30, 51365), (38, 51302),

Gene: Hyperion_74 Start: 50998, Stop: 50687, Start Num: 12
Candidate Starts for Hyperion_74:
(1, 51223), (3, 51109), (5, 51067), (6, 51061), (8, 51040), (Start: 12 @50998 has 33 MA's), (18, 50896), (21, 50869), (24, 50824), (25, 50818), (30, 50764), (38, 50701),

Gene: Jehoshaphat_77 Start: 51738, Stop: 51427, Start Num: 12
Candidate Starts for Jehoshaphat_77:
(Start: 12 @51738 has 33 MA's), (18, 51636), (24, 51564), (25, 51558), (30, 51504), (38, 51441),

Gene: Judebell_78 Start: 50962, Stop: 50651, Start Num: 12
Candidate Starts for Judebell_78:
(Start: 12 @50962 has 33 MA's), (18, 50860), (24, 50788), (25, 50782), (30, 50728), (38, 50665),

Gene: Kelcole_82 Start: 52779, Stop: 52468, Start Num: 12
Candidate Starts for Kelcole_82:
(Start: 12 @52779 has 33 MA's), (22, 52653), (28, 52593), (30, 52575), (32, 52542),

Gene: Kyva_78 Start: 51626, Stop: 51312, Start Num: 12
Candidate Starts for Kyva_78:
(3, 51731), (7, 51680), (10, 51650), (Start: 12 @51626 has 33 MA's), (18, 51524), (21, 51494), (24, 51449), (25, 51443), (30, 51389), (38, 51326),

Gene: Llemily_77 Start: 50517, Stop: 50203, Start Num: 12
Candidate Starts for Llemily_77:
(Start: 12 @50517 has 33 MA's), (18, 50415), (21, 50385), (24, 50340), (25, 50334), (30, 50280), (38, 50217),

Gene: Lonelysoil_73 Start: 50274, Stop: 49963, Start Num: 12
Candidate Starts for Lonelysoil_73:
(Start: 12 @50274 has 33 MA's), (18, 50172), (24, 50100), (25, 50094), (30, 50040), (38, 49977),

Gene: Magritte_140 Start: 87455, Stop: 87751, Start Num: 14
Candidate Starts for Magritte_140:
(Start: 14 @87455 has 1 MA's), (16, 87494), (25, 87614), (26, 87620), (29, 87665), (33, 87713), (36, 87740),

Gene: Marcie_88 Start: 53436, Stop: 53125, Start Num: 12
Candidate Starts for Marcie_88:
(Start: 12 @53436 has 33 MA's), (28, 53250), (30, 53232),

Gene: Mashley_76 Start: 51520, Stop: 51209, Start Num: 12
Candidate Starts for Mashley_76:
(Start: 12 @51520 has 33 MA's), (18, 51418), (20, 51391), (24, 51346), (25, 51340), (30, 51286), (38, 51223),

Gene: Namago_77 Start: 50967, Stop: 50656, Start Num: 12
Candidate Starts for Namago_77:

(Start: 12 @50967 has 33 MA's), (18, 50865), (21, 50835), (24, 50790), (25, 50784), (30, 50730), (38, 50667),

Gene: Nike_76 Start: 51878, Stop: 51567, Start Num: 12
Candidate Starts for Nike_76:
(3, 51989), (5, 51947), (8, 51920), (Start: 12 @51878 has 33 MA's), (18, 51776), (20, 51749), (24, 51704), (25, 51698), (30, 51644), (38, 51581),

Gene: OneinaGillian_81 Start: 52103, Stop: 51792, Start Num: 12
Candidate Starts for OneinaGillian_81:
(Start: 12 @52103 has 33 MA's), (22, 51977), (28, 51917), (30, 51899), (32, 51866),

Gene: Pepe25_80 Start: 51489, Stop: 51184, Start Num: 12
Candidate Starts for Pepe25_80:
(11, 51513), (Start: 12 @51489 has 33 MA's), (22, 51363), (28, 51303), (30, 51285),

Gene: Phabia_75 Start: 50929, Stop: 50618, Start Num: 12
Candidate Starts for Phabia_75:
(Start: 12 @50929 has 33 MA's), (18, 50827), (24, 50755), (25, 50749), (30, 50695), (38, 50632),

Gene: Phinky_85 Start: 54145, Stop: 53765, Start Num: 12
Candidate Starts for Phinky_85:
(11, 54172), (Start: 12 @54145 has 33 MA's), (15, 54097), (30, 53917), (31, 53914), (39, 53827), (40, 53818),

Gene: Quammi_74 Start: 50629, Stop: 50318, Start Num: 12
Candidate Starts for Quammi_74:
(Start: 12 @50629 has 33 MA's), (18, 50527), (24, 50455), (25, 50449), (30, 50395), (38, 50332),

Gene: RobinRose_86 Start: 53208, Stop: 52897, Start Num: 12
Candidate Starts for RobinRose_86:
(Start: 12 @53208 has 33 MA's), (22, 53082), (28, 53022), (30, 53004), (32, 52971),

Gene: Romm_86 Start: 53205, Stop: 52894, Start Num: 12
Candidate Starts for Romm_86:
(Start: 12 @53205 has 33 MA's), (22, 53079), (28, 53019), (30, 53001), (32, 52968),

Gene: Rowlf_76 Start: 50836, Stop: 50525, Start Num: 12
Candidate Starts for Rowlf_76:
(Start: 12 @50836 has 33 MA's), (18, 50734), (23, 50668), (24, 50662), (25, 50656), (30, 50602), (38, 50539),

Gene: RubyRalph_76 Start: 51304, Stop: 50993, Start Num: 13
Candidate Starts for RubyRalph_76:
(4, 51385), (Start: 13 @51304 has 3 MA's), (17, 51214), (19, 51202), (30, 51085),

Gene: Rudy_73 Start: 50665, Stop: 50354, Start Num: 12
Candidate Starts for Rudy_73:
(Start: 12 @50665 has 33 MA's), (18, 50563), (24, 50491), (25, 50485), (30, 50431), (38, 50368),

Gene: SadLad_77 Start: 52210, Stop: 51899, Start Num: 13
Candidate Starts for SadLad_77:
(4, 52291), (Start: 13 @52210 has 3 MA's), (17, 52120), (19, 52108), (30, 51991),

Gene: SallyK_78 Start: 52367, Stop: 52056, Start Num: 12
Candidate Starts for SallyK_78:
(Start: 12 @52367 has 33 MA's), (18, 52265), (23, 52199), (24, 52193), (25, 52187), (30, 52133), (38, 52070),

Gene: Sillytadpoles_78 Start: 50505, Stop: 50191, Start Num: 12
Candidate Starts for Sillytadpoles_78:
(Start: 12 @50505 has 33 MA's), (18, 50403), (21, 50373), (24, 50328), (25, 50322), (30, 50268), (38, 50205),

Gene: Squash_78 Start: 51600, Stop: 51289, Start Num: 12
Candidate Starts for Squash_78:
(3, 51711), (5, 51669), (8, 51642), (Start: 12 @51600 has 33 MA's), (18, 51498), (20, 51471), (24, 51426), (25, 51420), (27, 51405), (30, 51366), (37, 51309),

Gene: StrawberryJamm_80 Start: 50770, Stop: 50459, Start Num: 12
Candidate Starts for StrawberryJamm_80:
(Start: 12 @50770 has 33 MA's), (18, 50668), (24, 50596), (25, 50590), (30, 50536), (38, 50473),

Gene: Teehee_76 Start: 51735, Stop: 51424, Start Num: 12
Candidate Starts for Teehee_76:
(Start: 12 @51735 has 33 MA's), (18, 51633), (24, 51561), (25, 51555), (30, 51501), (38, 51438),

Gene: Tempo_84 Start: 52900, Stop: 52589, Start Num: 12
Candidate Starts for Tempo_84:
(9, 52933), (Start: 12 @52900 has 33 MA's), (22, 52774), (25, 52750), (28, 52714), (30, 52696), (32, 52663),

Gene: Tissue_75 Start: 51233, Stop: 50919, Start Num: 12
Candidate Starts for Tissue_75:
(3, 51338), (7, 51287), (10, 51257), (Start: 12 @51233 has 33 MA's), (18, 51131), (21, 51101), (24, 51056), (25, 51050), (30, 50996), (38, 50933),

Gene: Viceroy_74 Start: 50638, Stop: 50324, Start Num: 12
Candidate Starts for Viceroy_74:
(Start: 12 @50638 has 33 MA's), (18, 50536), (21, 50506), (24, 50461), (25, 50455), (30, 50401), (38, 50338),

Gene: Wayne3_77 Start: 51498, Stop: 51187, Start Num: 12
Candidate Starts for Wayne3_77:
(Start: 12 @51498 has 33 MA's), (18, 51396), (24, 51324), (25, 51318), (30, 51264), (38, 51201),

Gene: Wheelie_75 Start: 50819, Stop: 50508, Start Num: 12
Candidate Starts for Wheelie_75:
(Start: 12 @50819 has 33 MA's), (18, 50717), (24, 50645), (25, 50639), (30, 50585), (38, 50522),

Gene: Wilca_82 Start: 52570, Stop: 52265, Start Num: 12
Candidate Starts for Wilca_82:
(11, 52594), (Start: 12 @52570 has 33 MA's), (22, 52444), (28, 52384), (30, 52366),

Gene: Zagie_76 Start: 51047, Stop: 50736, Start Num: 12
Candidate Starts for Zagie_76:

(Start: 12 @51047 has 33 MA's), (18, 50945), (24, 50873), (25, 50867), (30, 50813), (38, 50750),

Gene: Zhafia_80 Start: 51299, Stop: 50988, Start Num: 12
Candidate Starts for Zhafia_80:
(Start: 12 @51299 has 33 MA's), (18, 51197), (24, 51125), (25, 51119), (30, 51065), (38, 51002),