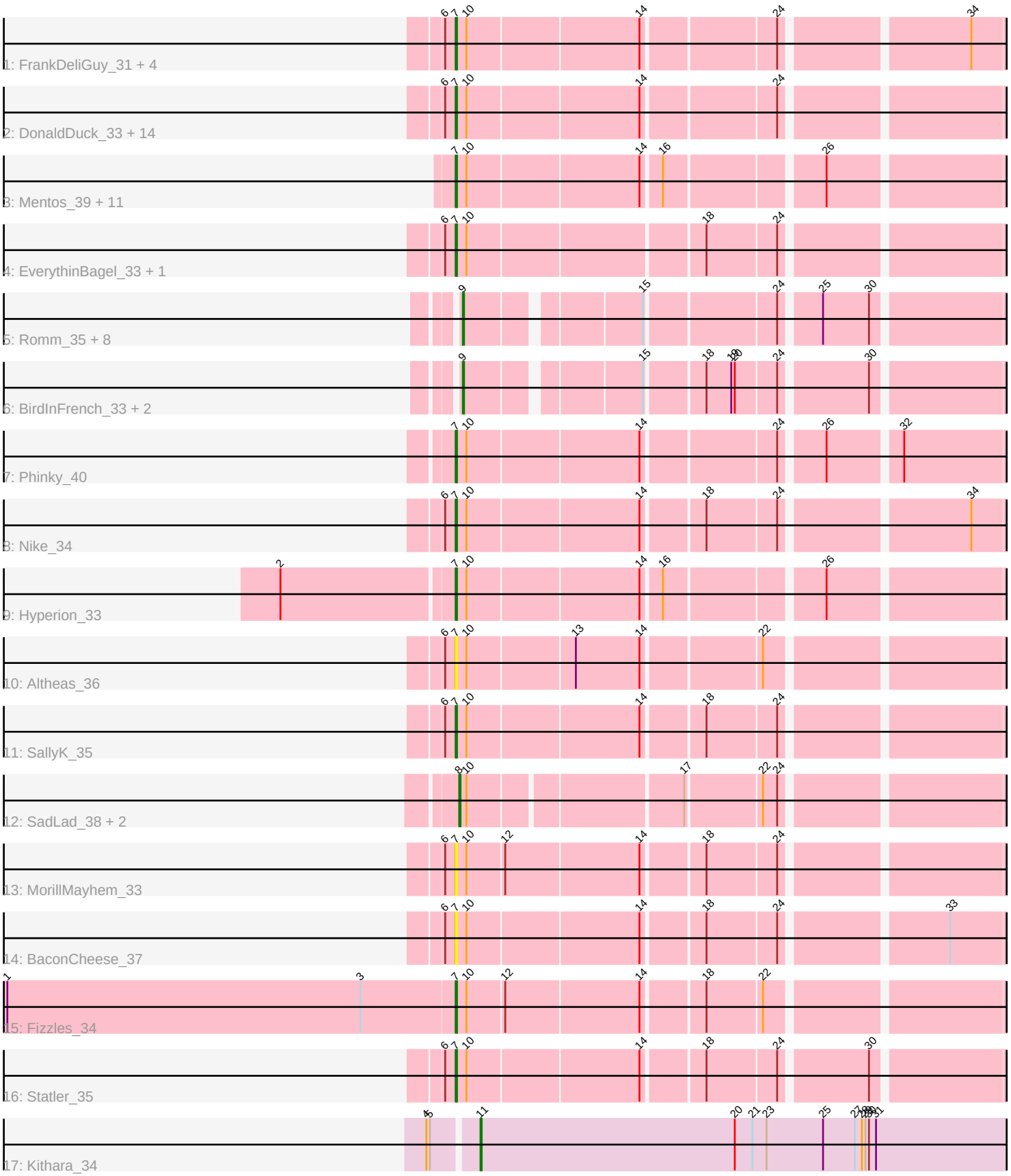
Pham 283835


1: FrankDeliGuy_31 + 4
2: DonaldDuck_33 + 14
3: Mentos_39 + 11
4: EverythinBagel_33 + 1
5: Romm_35 + 8
6: BirdInFrench_33 + 2
7: Phinky_40
8: Nike_34
9: Hyperion_33
10: Altheas_36
11: SallyK_35
12: SadLad_38 + 2
13: MorillMayhem_33
14: BaconCheese_37
15: Fizzles_34
16: Statler_35
17: Kithara_34

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 283835 Report

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

Pham number 283835 has 59 members, 8 are drafts.

Phages represented in each track:
• Track 1 : FrankDeliGuy_31, Namago_34, BabyDotz_33, Grassboy_35, Kyva_36
• Track 2 : DonaldDuck_33, Phabia_34, Zhafia_36, Tissue_34, Casend_35, Wayne3_35, Lonelysoil_33, Wheelie_33, Sillytadpoles_34, Jehoshaphat_36, Squash_36, Teehee_35, WheelerS25_39, Judebell_36, Llemily_33
• Track 3 : Mentos_39, Quammi_32, Rowlf_30, Gazebo_33, AluminumJesus_32, Rudy_32, Zagie_34, Viceroy_33, Blab_32, Mila11_37, Mashley_32, StrawberryJamm_36
• Track 4 : EverythinBagel_33, SlySloth_36
• Track 5 : Romm_35, OneinaGillian_33, Kelcole_32, RobinRose_35, Marcie_38, Fregley_34, CandC_32, Tempo_33, KillerQueen_34
• Track 6 : BirdInFrench_33, Wilca_33, Pepe25_32
• Track 7 : Phinky_40
• Track 8 : Nike_34
• Track 9 : Hyperion_33
• Track 10 : Altheas_36
• Track 11 : SallyK_35
• Track 12 : SadLad_38, RubyRalph_36, Fransoyer_36
• Track 13 : MorillMayhem_33
• Track 14 : BaconCheese_37
• Track 15 : Fizzles_34
• Track 16 : Statler_35
• Track 17 : Kithara_34

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

The start number called the most often in the published annotations is 7, it was called in 36 of the 51 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_36, AluminumJesus_32, BabyDotz_33, BaconCheese_37, Blab_32, Casend_35, DonaldDuck_33, EverythinBagel_33, Fizzles_34, FrankDeliGuy_31, Gazebo_33, Grassboy_35, Hyperion_33, Jehoshaphat_36, Judebell_36, Kyva_36, Llemily_33, Lonelysoil_33, Mashley_32, Mentos_39, Mila11_37, MorillMayhem_33, Namago_34, Nike_34, Phabia_34, Phinky_40, Quammi_32, Rowlf_30, Rudy_32,

SallyK_35, Sillytadpoles_34, SlySloth_36, Squash_36, Statler_35, StrawberryJamm_36, Teehee_35, Tissue_34, Viceroy_33, Wayne3_35, WheelerS25_39, Wheelie_33, Zagie_34, Zhafia_36,

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

Genes that do not have the "Most Annotated" start:
• BirdInFrench_33, CandC_32, Fransoyer_36, Fregley_34, Kelcole_32, KillerQueen_34, Kithara_34, Marcie_38, OneinaGillian_33, Pepe25_32, RobinRose_35, Romm_35, RubyRalph_36, SadLad_38, Tempo_33, Wilca_33,

Summary by start number:

Start 7:
• Found in 43 of 59 (72.9%) of genes in pham
• Manual Annotations of this start: 36 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_36 (EG), AluminumJesus_32 (EG), BabyDotz_33 (EG), BaconCheese_37 (EG), Blab_32 (EG), Casend_35 (EG), DonaldDuck_33 (EG), EverythinBagel_33 (EG), Fizzles_34 (EG), FrankDeliGuy_31 (EG), Gazebo_33 (EG), Grassboy_35 (EG), Hyperion_33 (EG), Jehoshaphat_36 (EG), Judebell_36 (EG), Kyva_36 (EG), Llemily_33 (EG), Lonelysoil_33 (EG), Mashley_32 (EG), Mentos_39 (EG), Mila11_37 (EG), MorillMayhem_33 (EG), Namago_34 (EG), Nike_34 (EG), Phabia_34 (EG), Phinky_40 (EG), Quammi_32 (EG), Rowlf_30 (EG), Rudy_32 (EG), SallyK_35 (EG), Sillytadpoles_34 (EG), SlySloth_36 (EG), Squash_36 (EG), Statler_35 (EG), StrawberryJamm_36 (EG), Teehee_35 (EG), Tissue_34 (EG), Viceroy_33 (EG), Wayne3_35 (EG), WheelerS25_39 (EG), Wheelie_33 (EG), Zagie_34 (EG), Zhafia_36 (EG),

Start 8:
• Found in 3 of 59 (5.1%) of genes in pham
• Manual Annotations of this start: 3 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fransoyer_36 (EG), RubyRalph_36 (EG), SadLad_38 (EG),

Start 9:
• Found in 12 of 59 (20.3%) of genes in pham
• Manual Annotations of this start: 11 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdInFrench_33 (EG), CandC_32 (EG), Fregley_34 (EG), Kelcole_32 (EG), KillerQueen_34 (EG), Marcie_38 (EG), OneinaGillian_33 (EG), Pepe25_32 (EG), RobinRose_35 (EG), Romm_35 (EG), Tempo_33 (EG), Wilca_33 (EG),

Start 11:
• Found in 1 of 59 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kithara_34 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster EG:
•Start number 7 was manually annotated 36 times for cluster EG.
•Start number 8 was manually annotated 3 times for cluster EG.
•Start number 9 was manually annotated 11 times for cluster EG.

Gene Information:

Gene: Altheas_36 Start: 22886, Stop: 23344, Start Num: 7
Candidate Starts for Altheas_36:
(6, 22877), (Start: 7 @22886 has 36 MA's), (10, 22895), (13, 22982), (14, 23036), (22, 23129),

Gene: AluminumJesus_32 Start: 22382, Stop: 22840, Start Num: 7
Candidate Starts for AluminumJesus_32:
(Start: 7 @22382 has 36 MA's), (10, 22391), (14, 22532), (16, 22547), (26, 22670),

Gene: BabyDotz_33 Start: 22636, Stop: 23094, Start Num: 7
Candidate Starts for BabyDotz_33:
(6, 22627), (Start: 7 @22636 has 36 MA's), (10, 22645), (14, 22786), (24, 22891), (34, 23038),

Gene: BaconCheese_37 Start: 23885, Stop: 24343, Start Num: 7
Candidate Starts for BaconCheese_37:
(6, 23876), (Start: 7 @23885 has 36 MA's), (10, 23894), (14, 24035), (18, 24083), (24, 24140), (33, 24269),

Gene: BirdInFrench_33 Start: 21258, Stop: 21692, Start Num: 9
Candidate Starts for BirdInFrench_33:
(Start: 9 @21258 has 11 MA's), (15, 21390), (18, 21435), (19, 21456), (20, 21459), (24, 21492), (30, 21561),

Gene: Blab_32 Start: 22307, Stop: 22765, Start Num: 7
Candidate Starts for Blab_32:
(Start: 7 @22307 has 36 MA's), (10, 22316), (14, 22457), (16, 22472), (26, 22595),

Gene: CandC_32 Start: 20958, Stop: 21392, Start Num: 9
Candidate Starts for CandC_32:
(Start: 9 @20958 has 11 MA's), (15, 21090), (24, 21192), (25, 21222), (30, 21261),

Gene: Casend_35 Start: 23045, Stop: 23503, Start Num: 7
Candidate Starts for Casend_35:
(6, 23036), (Start: 7 @23045 has 36 MA's), (10, 23054), (14, 23195), (24, 23300),

Gene: DonaldDuck_33 Start: 22391, Stop: 22849, Start Num: 7
Candidate Starts for DonaldDuck_33:
(6, 22382), (Start: 7 @22391 has 36 MA's), (10, 22400), (14, 22541), (24, 22646),

Gene: EverythinBagel_33 Start: 22779, Stop: 23237, Start Num: 7
Candidate Starts for EverythinBagel_33:
(6, 22770), (Start: 7 @22779 has 36 MA's), (10, 22788), (18, 22977), (24, 23034),

Gene: Fizzles_34 Start: 22106, Stop: 22564, Start Num: 7
Candidate Starts for Fizzles_34:
(1, 21728), (3, 22028), (Start: 7 @22106 has 36 MA's), (10, 22115), (12, 22145), (14, 22256), (18, 22304), (22, 22349),

Gene: FrankDeliGuy_31 Start: 22351, Stop: 22809, Start Num: 7
Candidate Starts for FrankDeliGuy_31:
(6, 22342), (Start: 7 @22351 has 36 MA's), (10, 22360), (14, 22501), (24, 22606), (34, 22753),

Gene: Fransoyer_36 Start: 22231, Stop: 22677, Start Num: 8
Candidate Starts for Fransoyer_36:
(Start: 8 @22231 has 3 MA's), (10, 22237), (17, 22405), (22, 22465), (24, 22477),

Gene: Fregley_34 Start: 21528, Stop: 21962, Start Num: 9
Candidate Starts for Fregley_34:
(Start: 9 @21528 has 11 MA's), (15, 21660), (24, 21762), (25, 21792), (30, 21831),

Gene: Gazebo_33 Start: 22845, Stop: 23303, Start Num: 7
Candidate Starts for Gazebo_33:
(Start: 7 @22845 has 36 MA's), (10, 22854), (14, 22995), (16, 23010), (26, 23133),

Gene: Grassboy_35 Start: 23020, Stop: 23478, Start Num: 7
Candidate Starts for Grassboy_35:
(6, 23011), (Start: 7 @23020 has 36 MA's), (10, 23029), (14, 23170), (24, 23275), (34, 23422),

Gene: Hyperion_33 Start: 22801, Stop: 23259, Start Num: 7
Candidate Starts for Hyperion_33:
(2, 22660), (Start: 7 @22801 has 36 MA's), (10, 22810), (14, 22951), (16, 22966), (26, 23089),

Gene: Jehoshaphat_36 Start: 23310, Stop: 23768, Start Num: 7
Candidate Starts for Jehoshaphat_36:
(6, 23301), (Start: 7 @23310 has 36 MA's), (10, 23319), (14, 23460), (24, 23565),

Gene: Judebell_36 Start: 22816, Stop: 23274, Start Num: 7
Candidate Starts for Judebell_36:
(6, 22807), (Start: 7 @22816 has 36 MA's), (10, 22825), (14, 22966), (24, 23071),

Gene: Kelcole_32 Start: 21410, Stop: 21844, Start Num: 9
Candidate Starts for Kelcole_32:
(Start: 9 @21410 has 11 MA's), (15, 21542), (24, 21644), (25, 21674), (30, 21713),

Gene: KillerQueen_34 Start: 21205, Stop: 21639, Start Num: 9
Candidate Starts for KillerQueen_34:
(Start: 9 @21205 has 11 MA's), (15, 21337), (24, 21439), (25, 21469), (30, 21508),

Gene: Kithara_34 Start: 24027, Stop: 24524, Start Num: 11
Candidate Starts for Kithara_34:
(4, 23988), (5, 23991), (Start: 11 @24027 has 1 MA's), (20, 24243), (21, 24258), (23, 24270), (25, 24318), (27, 24345), (28, 24351), (29, 24354), (30, 24357), (31, 24363),

Gene: Kyva_36 Start: 23055, Stop: 23513, Start Num: 7
Candidate Starts for Kyva_36:

(6, 23046), (Start: 7 @23055 has 36 MA's), (10, 23064), (14, 23205), (24, 23310), (34, 23457),

Gene: Llemily_33 Start: 22086, Stop: 22544, Start Num: 7
Candidate Starts for Llemily_33:
(6, 22077), (Start: 7 @22086 has 36 MA's), (10, 22095), (14, 22236), (24, 22341),

Gene: Lonelysoil_33 Start: 22331, Stop: 22789, Start Num: 7
Candidate Starts for Lonelysoil_33:
(6, 22322), (Start: 7 @22331 has 36 MA's), (10, 22340), (14, 22481), (24, 22586),

Gene: Marcie_38 Start: 22066, Stop: 22500, Start Num: 9
Candidate Starts for Marcie_38:
(Start: 9 @22066 has 11 MA's), (15, 22198), (24, 22300), (25, 22330), (30, 22369),

Gene: Mashley_32 Start: 22617, Stop: 23075, Start Num: 7
Candidate Starts for Mashley_32:
(Start: 7 @22617 has 36 MA's), (10, 22626), (14, 22767), (16, 22782), (26, 22905),

Gene: Mentos_39 Start: 23704, Stop: 24162, Start Num: 7
Candidate Starts for Mentos_39:
(Start: 7 @23704 has 36 MA's), (10, 23713), (14, 23854), (16, 23869), (26, 23992),

Gene: Mila11_37 Start: 23589, Stop: 24047, Start Num: 7
Candidate Starts for Mila11_37:
(Start: 7 @23589 has 36 MA's), (10, 23598), (14, 23739), (16, 23754), (26, 23877),

Gene: MorillMayhem_33 Start: 22601, Stop: 23059, Start Num: 7
Candidate Starts for MorillMayhem_33:
(6, 22592), (Start: 7 @22601 has 36 MA's), (10, 22610), (12, 22640), (14, 22751), (18, 22799), (24, 22856),

Gene: Namago_34 Start: 22185, Stop: 22643, Start Num: 7
Candidate Starts for Namago_34:
(6, 22176), (Start: 7 @22185 has 36 MA's), (10, 22194), (14, 22335), (24, 22440), (34, 22587),

Gene: Nike_34 Start: 23137, Stop: 23595, Start Num: 7
Candidate Starts for Nike_34:
(6, 23128), (Start: 7 @23137 has 36 MA's), (10, 23146), (14, 23287), (18, 23335), (24, 23392), (34, 23539),

Gene: OneinaGillian_33 Start: 21057, Stop: 21491, Start Num: 9
Candidate Starts for OneinaGillian_33:
(Start: 9 @21057 has 11 MA's), (15, 21189), (24, 21291), (25, 21321), (30, 21360),

Gene: Pepe25_32 Start: 21275, Stop: 21709, Start Num: 9
Candidate Starts for Pepe25_32:
(Start: 9 @21275 has 11 MA's), (15, 21407), (18, 21452), (19, 21473), (20, 21476), (24, 21509), (30, 21578),

Gene: Phabia_34 Start: 22504, Stop: 22962, Start Num: 7
Candidate Starts for Phabia_34:
(6, 22495), (Start: 7 @22504 has 36 MA's), (10, 22513), (14, 22654), (24, 22759),

Gene: Phinky_40 Start: 23684, Stop: 24142, Start Num: 7
Candidate Starts for Phinky_40:
(Start: 7 @23684 has 36 MA's), (10, 23693), (14, 23834), (24, 23939), (26, 23972), (32, 24029),

Gene: Quammi_32 Start: 22090, Stop: 22548, Start Num: 7
Candidate Starts for Quammi_32:
(Start: 7 @22090 has 36 MA's), (10, 22099), (14, 22240), (16, 22255), (26, 22378),

Gene: RobinRose_35 Start: 21561, Stop: 21995, Start Num: 9
Candidate Starts for RobinRose_35:
(Start: 9 @21561 has 11 MA's), (15, 21693), (24, 21795), (25, 21825), (30, 21864),

Gene: Romm_35 Start: 21561, Stop: 21995, Start Num: 9
Candidate Starts for Romm_35:
(Start: 9 @21561 has 11 MA's), (15, 21693), (24, 21795), (25, 21825), (30, 21864),

Gene: Rowlf_30 Start: 22265, Stop: 22723, Start Num: 7
Candidate Starts for Rowlf_30:
(Start: 7 @22265 has 36 MA's), (10, 22274), (14, 22415), (16, 22430), (26, 22553),

Gene: RubyRalph_36 Start: 22159, Stop: 22605, Start Num: 8
Candidate Starts for RubyRalph_36:
(Start: 8 @22159 has 3 MA's), (10, 22165), (17, 22333), (22, 22393), (24, 22405),

Gene: Rudy_32 Start: 22123, Stop: 22581, Start Num: 7
Candidate Starts for Rudy_32:
(Start: 7 @22123 has 36 MA's), (10, 22132), (14, 22273), (16, 22288), (26, 22411),

Gene: SadLad_38 Start: 23102, Stop: 23548, Start Num: 8
Candidate Starts for SadLad_38:
(Start: 8 @23102 has 3 MA's), (10, 23108), (17, 23276), (22, 23336), (24, 23348),

Gene: SallyK_35 Start: 23184, Stop: 23642, Start Num: 7
Candidate Starts for SallyK_35:
(6, 23175), (Start: 7 @23184 has 36 MA's), (10, 23193), (14, 23334), (18, 23382), (24, 23439),

Gene: Sillytadpoles_34 Start: 22074, Stop: 22532, Start Num: 7
Candidate Starts for Sillytadpoles_34:
(6, 22065), (Start: 7 @22074 has 36 MA's), (10, 22083), (14, 22224), (24, 22329),

Gene: SlySloth_36 Start: 23079, Stop: 23537, Start Num: 7
Candidate Starts for SlySloth_36:
(6, 23070), (Start: 7 @23079 has 36 MA's), (10, 23088), (18, 23277), (24, 23334),

Gene: Squash_36 Start: 23148, Stop: 23606, Start Num: 7
Candidate Starts for Squash_36:
(6, 23139), (Start: 7 @23148 has 36 MA's), (10, 23157), (14, 23298), (24, 23403),

Gene: Statler_35 Start: 22993, Stop: 23451, Start Num: 7
Candidate Starts for Statler_35:
(6, 22984), (Start: 7 @22993 has 36 MA's), (10, 23002), (14, 23143), (18, 23191), (24, 23248), (30, 23317),

Gene: StrawberryJamm_36 Start: 22327, Stop: 22785, Start Num: 7
Candidate Starts for StrawberryJamm_36:
(Start: 7 @22327 has 36 MA's), (10, 22336), (14, 22477), (16, 22492), (26, 22615),

Gene: Teehee_35 Start: 23310, Stop: 23768, Start Num: 7
Candidate Starts for Teehee_35:
(6, 23301), (Start: 7 @23310 has 36 MA's), (10, 23319), (14, 23460), (24, 23565),

Gene: Tempo_33 Start: 21437, Stop: 21871, Start Num: 9
Candidate Starts for Tempo_33:
(Start: 9 @21437 has 11 MA's), (15, 21569), (24, 21671), (25, 21701), (30, 21740),

Gene: Tissue_34 Start: 22827, Stop: 23285, Start Num: 7
Candidate Starts for Tissue_34:
(6, 22818), (Start: 7 @22827 has 36 MA's), (10, 22836), (14, 22977), (24, 23082),

Gene: Viceroy_33 Start: 22090, Stop: 22548, Start Num: 7
Candidate Starts for Viceroy_33:
(Start: 7 @22090 has 36 MA's), (10, 22099), (14, 22240), (16, 22255), (26, 22378),

Gene: Wayne3_35 Start: 23073, Stop: 23531, Start Num: 7
Candidate Starts for Wayne3_35:
(6, 23064), (Start: 7 @23073 has 36 MA's), (10, 23082), (14, 23223), (24, 23328),

Gene: WheelerS25_39 Start: 23833, Stop: 24291, Start Num: 7
Candidate Starts for WheelerS25_39:
(6, 23824), (Start: 7 @23833 has 36 MA's), (10, 23842), (14, 23983), (24, 24088),

Gene: Wheelie_33 Start: 22391, Stop: 22849, Start Num: 7
Candidate Starts for Wheelie_33:
(6, 22382), (Start: 7 @22391 has 36 MA's), (10, 22400), (14, 22541), (24, 22646),

Gene: Wilca_33 Start: 21258, Stop: 21692, Start Num: 9
Candidate Starts for Wilca_33:
(Start: 9 @21258 has 11 MA's), (15, 21390), (18, 21435), (19, 21456), (20, 21459), (24, 21492), (30, 21561),

Gene: Zagie_34 Start: 22528, Stop: 22986, Start Num: 7
Candidate Starts for Zagie_34:
(Start: 7 @22528 has 36 MA's), (10, 22537), (14, 22678), (16, 22693), (26, 22816),

Gene: Zhafia_36 Start: 22869, Stop: 23327, Start Num: 7
Candidate Starts for Zhafia_36:
(6, 22860), (Start: 7 @22869 has 36 MA's), (10, 22878), (14, 23019), (24, 23124),