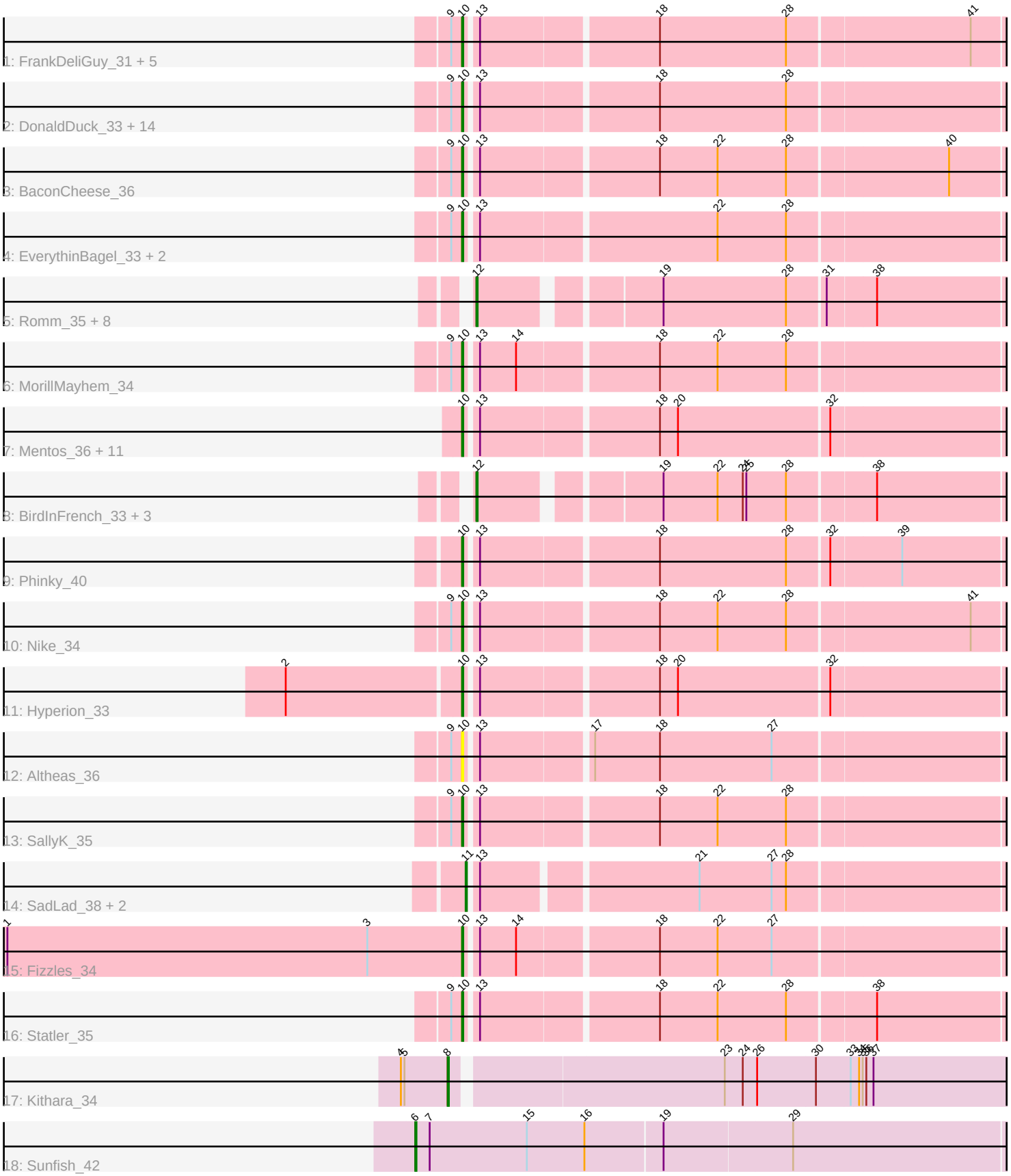
Pham 347619


1: FrankDeliGuy_31 + 5
2: DonaldDuck_33 + 14
3: BaconCheese_36
4: EverythinBagel_33 + 2
5: Romm_35 + 8
6: MorillMayhem_34
7: Mentos_36 + 11
8: BirdInFrench_33 + 3
9: Phinky_40
10: Nike_34
11: Hyperion_33
12: Altheas_36
13: SallyK_35
14: SadLad_38 + 2
15: Fizzles_34
16: Statler_35
17: Kithara_34
18: Sunfish_42

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 347619 Report

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

Pham number 347619 has 63 members, 5 are drafts.

Phages represented in each track:
• Track 1 : FrankDeliGuy_31, Namago_34, ZestyBestie_32, BabyDotz_33, Grassboy_35, Kyva_36
• Track 2 : DonaldDuck_33, Phabia_34, Tissue_34, Casend_35, Teehee_35, Wayne3_35, Lonelysoil_33, Wheelie_33, Sillytadpoles_34, Jehoshaphat_36, Llemily_33, Squash_36, WheelerS25_39, Judebell_36, Zhafia_36
• Track 3 : BaconCheese_36
• Track 4 : EverythinBagel_33, SlySloth_36, LilCahh_33
• Track 5 : Romm_35, OneinaGillian_33, Kelcole_32, RobinRose_35, Marcie_38, Fregley_34, CandC_32, Tempo_33, KillerQueen_34
• Track 6 : MorillMayhem_34
• Track 7 : Mentos_36, Quammi_32, Rowlf_30, AluminumJesus_32, Rudy_32, Zagie_34, Viceroy_33, Blab_32, Mashley_32, Mila11_36, StrawberryJamm_36, Gazebo_33
• Track 8 : BirdInFrench_33, Spiderpig_33, Wilca_33, Pepe25_32
• Track 9 : Phinky_40
• Track 10 : Nike_34
• Track 11 : Hyperion_33
• Track 12 : Altheas_36
• Track 13 : SallyK_35
• Track 14 : SadLad_38, RubyRalph_36, Fransoyer_36
• Track 15 : Fizzles_34
• Track 16 : Statler_35
• Track 17 : Kithara_34
• Track 18 : Sunfish_42

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 42 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_36, AluminumJesus_32, BabyDotz_33, BaconCheese_36, Blab_32, Casend_35, DonaldDuck_33, EverythinBagel_33, Fizzles_34, FrankDeliGuy_31, Gazebo_33, Grassboy_35, Hyperion_33, Jehoshaphat_36, Judebell_36, Kyva_36,

LilCahh_33, Llemily_33, Lonelysoil_33, Mashley_32, Mentos_36, Mila11_36, MorillMayhem_34, 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, ZestyBestie_32, 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, Spiderpig_33, Sunfish_42, Tempo_33, Wilca_33,

Summary by start number:

Start 6:
• Found in 1 of 63 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sunfish_42 (singleton),

Start 8:
• Found in 1 of 63 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kithara_34 (singleton),

Start 10:
• Found in 45 of 63 (71.4%) of genes in pham
• Manual Annotations of this start: 42 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_36 (EG), AluminumJesus_32 (EG), BabyDotz_33 (EG), BaconCheese_36 (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), LilCahh_33 (EG), Llemily_33 (EG), Lonelysoil_33 (EG), Mashley_32 (EG), Mentos_36 (EG), Mila11_36 (EG), MorillMayhem_34 (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), ZestyBestie_32 (EG), Zhafia_36 (EG),

Start 11:
• Found in 3 of 63 (4.8%) of genes in pham
• Manual Annotations of this start: 3 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fransoyer_36 (EG), RubyRalph_36 (EG), SadLad_38 (EG),

Start 12:
• Found in 13 of 63 (20.6%) of genes in pham
• Manual Annotations of this start: 11 of 58
• 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), Spiderpig_33 (EG), Tempo_33 (EG), Wilca_33 (EG),

Summary by clusters:

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

Info for manual annotations of cluster EG:
•Start number 10 was manually annotated 42 times for cluster EG.
•Start number 11 was manually annotated 3 times for cluster EG.
•Start number 12 was manually annotated 11 times for cluster EG.

Gene Information:

Gene: Altheas_36 Start: 22886, Stop: 23344, Start Num: 10
Candidate Starts for Altheas_36:
(9, 22877), (Start: 10 @22886 has 42 MA's), (13, 22895), (17, 22982), (18, 23036), (27, 23129),

Gene: AluminumJesus_32 Start: 22382, Stop: 22840, Start Num: 10
Candidate Starts for AluminumJesus_32:
(Start: 10 @22382 has 42 MA's), (13, 22391), (18, 22532), (20, 22547), (32, 22670),

Gene: BabyDotz_33 Start: 22636, Stop: 23094, Start Num: 10
Candidate Starts for BabyDotz_33:
(9, 22627), (Start: 10 @22636 has 42 MA's), (13, 22645), (18, 22786), (28, 22891), (41, 23038),

Gene: BaconCheese_36 Start: 23885, Stop: 24343, Start Num: 10
Candidate Starts for BaconCheese_36:
(9, 23876), (Start: 10 @23885 has 42 MA's), (13, 23894), (18, 24035), (22, 24083), (28, 24140), (40, 24269),

Gene: BirdInFrench_33 Start: 21258, Stop: 21692, Start Num: 12
Candidate Starts for BirdInFrench_33:
(Start: 12 @21258 has 11 MA's), (19, 21390), (22, 21435), (24, 21456), (25, 21459), (28, 21492), (38, 21561),

Gene: Blab_32 Start: 22307, Stop: 22765, Start Num: 10
Candidate Starts for Blab_32:
(Start: 10 @22307 has 42 MA's), (13, 22316), (18, 22457), (20, 22472), (32, 22595),

Gene: CandC_32 Start: 20958, Stop: 21392, Start Num: 12
Candidate Starts for CandC_32:
(Start: 12 @20958 has 11 MA's), (19, 21090), (28, 21192), (31, 21222), (38, 21261),

Gene: Casend_35 Start: 23045, Stop: 23503, Start Num: 10

Candidate Starts for Casend_35:
(9, 23036), (Start: 10 @23045 has 42 MA's), (13, 23054), (18, 23195), (28, 23300),

Gene: DonaldDuck_33 Start: 22391, Stop: 22849, Start Num: 10
Candidate Starts for DonaldDuck_33:
(9, 22382), (Start: 10 @22391 has 42 MA's), (13, 22400), (18, 22541), (28, 22646),

Gene: EverythinBagel_33 Start: 22779, Stop: 23237, Start Num: 10
Candidate Starts for EverythinBagel_33:
(9, 22770), (Start: 10 @22779 has 42 MA's), (13, 22788), (22, 22977), (28, 23034),

Gene: Fizzles_34 Start: 22106, Stop: 22564, Start Num: 10
Candidate Starts for Fizzles_34:
(1, 21728), (3, 22028), (Start: 10 @22106 has 42 MA's), (13, 22115), (14, 22145), (18, 22256), (22, 22304), (27, 22349),

Gene: FrankDeliGuy_31 Start: 22351, Stop: 22809, Start Num: 10
Candidate Starts for FrankDeliGuy_31:
(9, 22342), (Start: 10 @22351 has 42 MA's), (13, 22360), (18, 22501), (28, 22606), (41, 22753),

Gene: Fransoyer_36 Start: 22231, Stop: 22677, Start Num: 11
Candidate Starts for Fransoyer_36:
(Start: 11 @22231 has 3 MA's), (13, 22237), (21, 22405), (27, 22465), (28, 22477),

Gene: Fregley_34 Start: 21528, Stop: 21962, Start Num: 12
Candidate Starts for Fregley_34:
(Start: 12 @21528 has 11 MA's), (19, 21660), (28, 21762), (31, 21792), (38, 21831),

Gene: Gazebo_33 Start: 22845, Stop: 23303, Start Num: 10
Candidate Starts for Gazebo_33:
(Start: 10 @22845 has 42 MA's), (13, 22854), (18, 22995), (20, 23010), (32, 23133),

Gene: Grassboy_35 Start: 23020, Stop: 23478, Start Num: 10
Candidate Starts for Grassboy_35:
(9, 23011), (Start: 10 @23020 has 42 MA's), (13, 23029), (18, 23170), (28, 23275), (41, 23422),

Gene: Hyperion_33 Start: 22801, Stop: 23259, Start Num: 10
Candidate Starts for Hyperion_33:
(2, 22660), (Start: 10 @22801 has 42 MA's), (13, 22810), (18, 22951), (20, 22966), (32, 23089),

Gene: Jehoshaphat_36 Start: 23310, Stop: 23768, Start Num: 10
Candidate Starts for Jehoshaphat_36:
(9, 23301), (Start: 10 @23310 has 42 MA's), (13, 23319), (18, 23460), (28, 23565),

Gene: Judebell_36 Start: 22816, Stop: 23274, Start Num: 10
Candidate Starts for Judebell_36:
(9, 22807), (Start: 10 @22816 has 42 MA's), (13, 22825), (18, 22966), (28, 23071),

Gene: Kelcole_32 Start: 21410, Stop: 21844, Start Num: 12
Candidate Starts for Kelcole_32:
(Start: 12 @21410 has 11 MA's), (19, 21542), (28, 21644), (31, 21674), (38, 21713),

Gene: KillerQueen_34 Start: 21205, Stop: 21639, Start Num: 12

Candidate Starts for KillerQueen_34:
(Start: 12 @21205 has 11 MA's), (19, 21337), (28, 21439), (31, 21469), (38, 21508),

Gene: Kithara_34 Start: 24027, Stop: 24524, Start Num: 8
Candidate Starts for Kithara_34:
(4, 23988), (5, 23991), (Start: 8 @24027 has 1 MA's), (23, 24243), (24, 24258), (26, 24270), (30, 24318), (33, 24345), (34, 24351), (35, 24354), (36, 24357), (37, 24363),

Gene: Kyva_36 Start: 23055, Stop: 23513, Start Num: 10
Candidate Starts for Kyva_36:
(9, 23046), (Start: 10 @23055 has 42 MA's), (13, 23064), (18, 23205), (28, 23310), (41, 23457),

Gene: LilCahh_33 Start: 22407, Stop: 22865, Start Num: 10
Candidate Starts for LilCahh_33:
(9, 22398), (Start: 10 @22407 has 42 MA's), (13, 22416), (22, 22605), (28, 22662),

Gene: Llemily_33 Start: 22086, Stop: 22544, Start Num: 10
Candidate Starts for Llemily_33:
(9, 22077), (Start: 10 @22086 has 42 MA's), (13, 22095), (18, 22236), (28, 22341),

Gene: Lonelysoil_33 Start: 22331, Stop: 22789, Start Num: 10
Candidate Starts for Lonelysoil_33:
(9, 22322), (Start: 10 @22331 has 42 MA's), (13, 22340), (18, 22481), (28, 22586),

Gene: Marcie_38 Start: 22066, Stop: 22500, Start Num: 12
Candidate Starts for Marcie_38:
(Start: 12 @22066 has 11 MA's), (19, 22198), (28, 22300), (31, 22330), (38, 22369),

Gene: Mashley_32 Start: 22617, Stop: 23075, Start Num: 10
Candidate Starts for Mashley_32:
(Start: 10 @22617 has 42 MA's), (13, 22626), (18, 22767), (20, 22782), (32, 22905),

Gene: Mentos_36 Start: 23704, Stop: 24162, Start Num: 10
Candidate Starts for Mentos_36:
(Start: 10 @23704 has 42 MA's), (13, 23713), (18, 23854), (20, 23869), (32, 23992),

Gene: Mila11_36 Start: 23589, Stop: 24047, Start Num: 10
Candidate Starts for Mila11_36:
(Start: 10 @23589 has 42 MA's), (13, 23598), (18, 23739), (20, 23754), (32, 23877),

Gene: MorillMayhem_34 Start: 22601, Stop: 23059, Start Num: 10
Candidate Starts for MorillMayhem_34:
(9, 22592), (Start: 10 @22601 has 42 MA's), (13, 22610), (14, 22640), (18, 22751), (22, 22799), (28, 22856),

Gene: Namago_34 Start: 22185, Stop: 22643, Start Num: 10
Candidate Starts for Namago_34:
(9, 22176), (Start: 10 @22185 has 42 MA's), (13, 22194), (18, 22335), (28, 22440), (41, 22587),

Gene: Nike_34 Start: 23137, Stop: 23595, Start Num: 10
Candidate Starts for Nike_34:
(9, 23128), (Start: 10 @23137 has 42 MA's), (13, 23146), (18, 23287), (22, 23335), (28, 23392), (41, 23539),

Gene: OneinaGillian_33 Start: 21057, Stop: 21491, Start Num: 12
Candidate Starts for OneinaGillian_33:
(Start: 12 @21057 has 11 MA's), (19, 21189), (28, 21291), (31, 21321), (38, 21360),

Gene: Pepe25_32 Start: 21275, Stop: 21709, Start Num: 12
Candidate Starts for Pepe25_32:
(Start: 12 @21275 has 11 MA's), (19, 21407), (22, 21452), (24, 21473), (25, 21476), (28, 21509), (38, 21578),

Gene: Phabia_34 Start: 22504, Stop: 22962, Start Num: 10
Candidate Starts for Phabia_34:
(9, 22495), (Start: 10 @22504 has 42 MA's), (13, 22513), (18, 22654), (28, 22759),

Gene: Phinky_40 Start: 23684, Stop: 24142, Start Num: 10
Candidate Starts for Phinky_40:
(Start: 10 @23684 has 42 MA's), (13, 23693), (18, 23834), (28, 23939), (32, 23972), (39, 24029),

Gene: Quammi_32 Start: 22090, Stop: 22548, Start Num: 10
Candidate Starts for Quammi_32:
(Start: 10 @22090 has 42 MA's), (13, 22099), (18, 22240), (20, 22255), (32, 22378),

Gene: RobinRose_35 Start: 21561, Stop: 21995, Start Num: 12
Candidate Starts for RobinRose_35:
(Start: 12 @21561 has 11 MA's), (19, 21693), (28, 21795), (31, 21825), (38, 21864),

Gene: Romm_35 Start: 21561, Stop: 21995, Start Num: 12
Candidate Starts for Romm_35:
(Start: 12 @21561 has 11 MA's), (19, 21693), (28, 21795), (31, 21825), (38, 21864),

Gene: Rowlf_30 Start: 22265, Stop: 22723, Start Num: 10
Candidate Starts for Rowlf_30:
(Start: 10 @22265 has 42 MA's), (13, 22274), (18, 22415), (20, 22430), (32, 22553),

Gene: RubyRalph_36 Start: 22159, Stop: 22605, Start Num: 11
Candidate Starts for RubyRalph_36:
(Start: 11 @22159 has 3 MA's), (13, 22165), (21, 22333), (27, 22393), (28, 22405),

Gene: Rudy_32 Start: 22123, Stop: 22581, Start Num: 10
Candidate Starts for Rudy_32:
(Start: 10 @22123 has 42 MA's), (13, 22132), (18, 22273), (20, 22288), (32, 22411),

Gene: SadLad_38 Start: 23102, Stop: 23548, Start Num: 11
Candidate Starts for SadLad_38:
(Start: 11 @23102 has 3 MA's), (13, 23108), (21, 23276), (27, 23336), (28, 23348),

Gene: SallyK_35 Start: 23184, Stop: 23642, Start Num: 10
Candidate Starts for SallyK_35:
(9, 23175), (Start: 10 @23184 has 42 MA's), (13, 23193), (18, 23334), (22, 23382), (28, 23439),

Gene: Sillytadpoles_34 Start: 22074, Stop: 22532, Start Num: 10
Candidate Starts for Sillytadpoles_34:
(9, 22065), (Start: 10 @22074 has 42 MA's), (13, 22083), (18, 22224), (28, 22329),

Gene: SlySloth_36 Start: 23079, Stop: 23537, Start Num: 10
Candidate Starts for SlySloth_36:
(9, 23070), (Start: 10 @23079 has 42 MA's), (13, 23088), (22, 23277), (28, 23334),

Gene: Spiderpig_33 Start: 21258, Stop: 21692, Start Num: 12
Candidate Starts for Spiderpig_33:
(Start: 12 @21258 has 11 MA's), (19, 21390), (22, 21435), (24, 21456), (25, 21459), (28, 21492), (38, 21561),

Gene: Squash_36 Start: 23148, Stop: 23606, Start Num: 10
Candidate Starts for Squash_36:
(9, 23139), (Start: 10 @23148 has 42 MA's), (13, 23157), (18, 23298), (28, 23403),

Gene: Statler_35 Start: 22993, Stop: 23451, Start Num: 10
Candidate Starts for Statler_35:
(9, 22984), (Start: 10 @22993 has 42 MA's), (13, 23002), (18, 23143), (22, 23191), (28, 23248), (38, 23317),

Gene: StrawberryJamm_36 Start: 22327, Stop: 22785, Start Num: 10
Candidate Starts for StrawberryJamm_36:
(Start: 10 @22327 has 42 MA's), (13, 22336), (18, 22477), (20, 22492), (32, 22615),

Gene: Sunfish_42 Start: 23513, Stop: 24040, Start Num: 6
Candidate Starts for Sunfish_42:
(Start: 6 @23513 has 1 MA's), (7, 23525), (15, 23606), (16, 23654), (19, 23717), (29, 23822),

Gene: Teehee_35 Start: 23310, Stop: 23768, Start Num: 10
Candidate Starts for Teehee_35:
(9, 23301), (Start: 10 @23310 has 42 MA's), (13, 23319), (18, 23460), (28, 23565),

Gene: Tempo_33 Start: 21437, Stop: 21871, Start Num: 12
Candidate Starts for Tempo_33:
(Start: 12 @21437 has 11 MA's), (19, 21569), (28, 21671), (31, 21701), (38, 21740),

Gene: Tissue_34 Start: 22827, Stop: 23285, Start Num: 10
Candidate Starts for Tissue_34:
(9, 22818), (Start: 10 @22827 has 42 MA's), (13, 22836), (18, 22977), (28, 23082),

Gene: Viceroy_33 Start: 22090, Stop: 22548, Start Num: 10
Candidate Starts for Viceroy_33:
(Start: 10 @22090 has 42 MA's), (13, 22099), (18, 22240), (20, 22255), (32, 22378),

Gene: Wayne3_35 Start: 23073, Stop: 23531, Start Num: 10
Candidate Starts for Wayne3_35:
(9, 23064), (Start: 10 @23073 has 42 MA's), (13, 23082), (18, 23223), (28, 23328),

Gene: WheelerS25_39 Start: 23833, Stop: 24291, Start Num: 10
Candidate Starts for WheelerS25_39:
(9, 23824), (Start: 10 @23833 has 42 MA's), (13, 23842), (18, 23983), (28, 24088),

Gene: Wheelie_33 Start: 22391, Stop: 22849, Start Num: 10
Candidate Starts for Wheelie_33:

(9, 22382), (Start: 10 @22391 has 42 MA's), (13, 22400), (18, 22541), (28, 22646),

Gene: Wilca_33 Start: 21258, Stop: 21692, Start Num: 12
Candidate Starts for Wilca_33:
(Start: 12 @21258 has 11 MA's), (19, 21390), (22, 21435), (24, 21456), (25, 21459), (28, 21492), (38, 21561),

Gene: Zagie_34 Start: 22528, Stop: 22986, Start Num: 10
Candidate Starts for Zagie_34:
(Start: 10 @22528 has 42 MA's), (13, 22537), (18, 22678), (20, 22693), (32, 22816),

Gene: ZestyBestie_32 Start: 22346, Stop: 22804, Start Num: 10
Candidate Starts for ZestyBestie_32:
(9, 22337), (Start: 10 @22346 has 42 MA's), (13, 22355), (18, 22496), (28, 22601), (41, 22748),

Gene: Zhafia_36 Start: 22869, Stop: 23327, Start Num: 10
Candidate Starts for Zhafia_36:
(9, 22860), (Start: 10 @22869 has 42 MA's), (13, 22878), (18, 23019), (28, 23124),