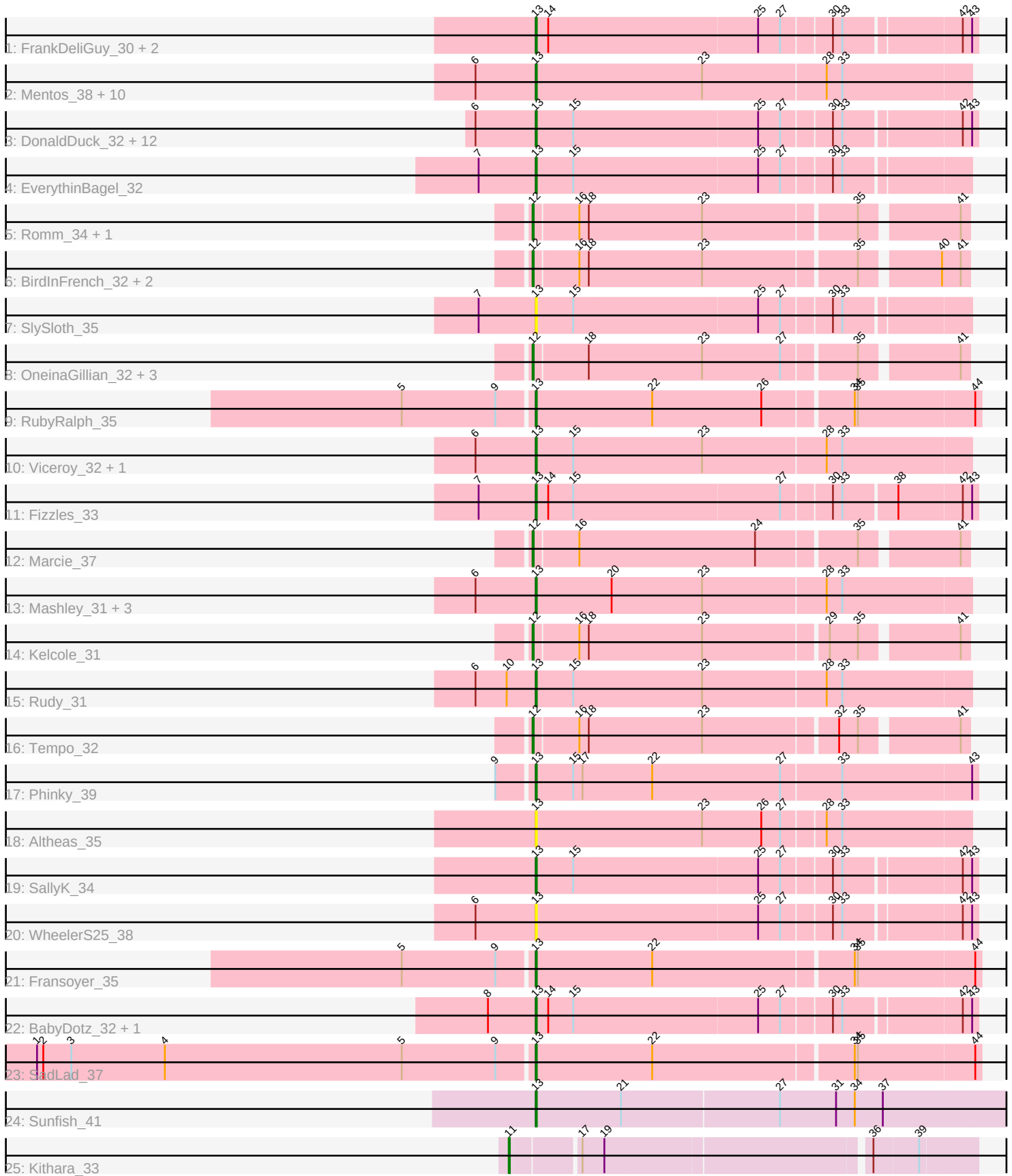


Pham 280461



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 280461 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280461 has 60 members, 8 are drafts.

Phages represented in each track:

- Track 1 : FrankDeliGuy_30, Tissue_33, Judebell_35
- Track 2 : Mentos_38, Nike_33, Mila11_36, Hyperion_32, Namago_33, Zagie_33, Rowlf_29, Kyva_35, Grassboy_34, Squash_35, StrawberryJamm_35
- Track 3 : DonaldDuck_32, Phabia_33, BaconCheese_36, Teehee_34, Lonelysoil_32, Wayne3_34, Wheelie_32, Casend_34, Sillytadpoles_33, MorillMayhem_32, Llemily_32, Jehoshaphat_35, Zhafia_35
- Track 4 : EverythinBagel_32
- Track 5 : Romm_34, RobinRose_34
- Track 6 : BirdInFrench_32, Pepe25_31, Wilca_32
- Track 7 : SlySloth_35
- Track 8 : OneinaGillian_32, Fregley_33, CandC_31, KillerQueen_33
- Track 9 : RubyRalph_35
- Track 10 : Viceroy_32, Quammi_31
- Track 11 : Fizzles_33
- Track 12 : Marcie_37
- Track 13 : Mashley_31, Blab_31, AluminumJesus_31, Gazebo_32
- Track 14 : Kelcole_31
- Track 15 : Rudy_31
- Track 16 : Tempo_32
- Track 17 : Phinky_39
- Track 18 : Altheas_35
- Track 19 : SallyK_34
- Track 20 : WheelerS25_38
- Track 21 : Fransoyer_35
- Track 22 : BabyDotz_32, Statler_34
- Track 23 : SadLad_37
- Track 24 : Sunfish_41
- Track 25 : Kithara_33

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

The start number called the most often in the published annotations is 13, it was called in 40 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altheas_35, AluminumJesus_31, BabyDotz_32, BaconCheese_36, Blab_31, Casend_34, DonaldDuck_32, EverythinBagel_32, Fizzles_33, FrankDeliGuy_30, Fransoyer_35, Gazebo_32, Grassboy_34, Hyperion_32, Jehoshaphat_35, Judebell_35, Kyva_35, Llemily_32, Lonelysoil_32, Mashley_31, Mentos_38, Mila11_36, MorillMayhem_32, Namago_33, Nike_33, Phabia_33, Phinky_39, Quammi_31, Rowlf_29, RubyRalph_35, Rudy_31, SadLad_37, SallyK_34, Sillytadpoles_33, SlySloth_35, Squash_35, Statler_34, StrawberryJamm_35, Sunfish_41, Teehee_34, Tissue_33, Viceroy_32, Wayne3_34, WheelerS25_38, Wheelie_32, Zagie_33, Zhafia_35,

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

-

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

- BirdInFrench_32, CandC_31, Fregley_33, Kelcole_31, KillerQueen_33, Kithara_33, Marcie_37, OneinaGillian_32, Pepe25_31, RobinRose_34, Romm_34, Tempo_32, Wilca_32,

Summary by start number:

Start 11:

- Found in 1 of 60 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kithara_33 (singleton),

Start 12:

- Found in 12 of 60 (20.0%) of genes in pham
- Manual Annotations of this start: 11 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdInFrench_32 (EG), CandC_31 (EG), Fregley_33 (EG), Kelcole_31 (EG), KillerQueen_33 (EG), Marcie_37 (EG), OneinaGillian_32 (EG), Pepe25_31 (EG), RobinRose_34 (EG), Romm_34 (EG), Tempo_32 (EG), Wilca_32 (EG),

Start 13:

- Found in 47 of 60 (78.3%) of genes in pham
- Manual Annotations of this start: 40 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altheas_35 (EG), AluminumJesus_31 (EG), BabyDotz_32 (EG), BaconCheese_36 (EG), Blab_31 (EG), Casend_34 (EG), DonaldDuck_32 (EG), EverythinBagel_32 (EG), Fizzles_33 (EG), FrankDeliGuy_30 (EG), Fransoyer_35 (EG), Gazebo_32 (EG), Grassboy_34 (EG), Hyperion_32 (EG), Jehoshaphat_35 (EG), Judebell_35 (EG), Kyva_35 (EG), Llemily_32 (EG), Lonelysoil_32 (EG), Mashley_31 (EG), Mentos_38 (EG), Mila11_36 (EG), MorillMayhem_32 (EG), Namago_33 (EG), Nike_33 (EG), Phabia_33 (EG), Phinky_39 (EG), Quammi_31 (EG), Rowlf_29 (EG), RubyRalph_35 (EG), Rudy_31 (EG), SadLad_37 (EG), SallyK_34 (EG), Sillytadpoles_33 (EG), SlySloth_35 (EG), Squash_35 (EG), Statler_34 (EG), StrawberryJamm_35 (EG), Sunfish_41 (singleton), Teehee_34 (EG), Tissue_33 (EG), Viceroy_32 (EG), Wayne3_34 (EG), WheelerS25_38 (EG), Wheelie_32 (EG), Zagie_33 (EG), Zhafia_35 (EG),

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 11 times for cluster EG.
- Start number 13 was manually annotated 39 times for cluster EG.

Gene Information:

Gene: Altheas_35 Start: 22433, Stop: 22843, Start Num: 13

Candidate Starts for Altheas_35:

(Start: 13 @22433 has 40 MA's), (23, 22592), (26, 22649), (27, 22667), (28, 22706), (33, 22721),

Gene: AluminumJesus_31 Start: 21927, Stop: 22340, Start Num: 13

Candidate Starts for AluminumJesus_31:

(6, 21870), (Start: 13 @21927 has 40 MA's), (20, 21999), (23, 22086), (28, 22203), (33, 22218),

Gene: BabyDotz_32 Start: 22195, Stop: 22599, Start Num: 13

Candidate Starts for BabyDotz_32:

(8, 22150), (Start: 13 @22195 has 40 MA's), (14, 22207), (15, 22231), (25, 22405), (27, 22426), (30, 22471), (33, 22480), (42, 22585), (43, 22594),

Gene: BaconCheese_36 Start: 23444, Stop: 23848, Start Num: 13

Candidate Starts for BaconCheese_36:

(6, 23387), (Start: 13 @23444 has 40 MA's), (15, 23480), (25, 23654), (27, 23675), (30, 23720), (33, 23729), (42, 23834), (43, 23843),

Gene: BirdInFrench_32 Start: 20827, Stop: 21222, Start Num: 12

Candidate Starts for BirdInFrench_32:

(Start: 12 @20827 has 11 MA's), (16, 20869), (18, 20878), (23, 20986), (35, 21127), (40, 21196), (41, 21214),

Gene: Blab_31 Start: 21852, Stop: 22265, Start Num: 13

Candidate Starts for Blab_31:

(6, 21795), (Start: 13 @21852 has 40 MA's), (20, 21924), (23, 22011), (28, 22128), (33, 22143),

Gene: CandC_31 Start: 20527, Stop: 20922, Start Num: 12

Candidate Starts for CandC_31:

(Start: 12 @20527 has 11 MA's), (18, 20578), (23, 20686), (27, 20761), (35, 20827), (41, 20914),

Gene: Casend_34 Start: 22604, Stop: 23008, Start Num: 13

Candidate Starts for Casend_34:

(6, 22547), (Start: 13 @22604 has 40 MA's), (15, 22640), (25, 22814), (27, 22835), (30, 22880), (33, 22889), (42, 22994), (43, 23003),

Gene: DonaldDuck_32 Start: 21950, Stop: 22354, Start Num: 13

Candidate Starts for DonaldDuck_32:

(6, 21893), (Start: 13 @21950 has 40 MA's), (15, 21986), (25, 22160), (27, 22181), (30, 22226), (33, 22235), (42, 22340), (43, 22349),

Gene: EverythinBagel_32 Start: 22338, Stop: 22736, Start Num: 13

Candidate Starts for EverythinBagel_32:

(7, 22284), (Start: 13 @22338 has 40 MA's), (15, 22374), (25, 22548), (27, 22569), (30, 22614), (33, 22623),

Gene: Fizzles_33 Start: 21660, Stop: 22067, Start Num: 13

Candidate Starts for Fizzles_33:

(7, 21606), (Start: 13 @21660 has 40 MA's), (14, 21672), (15, 21696), (27, 21891), (30, 21936), (33, 21945), (38, 21993), (42, 22053), (43, 22062),

Gene: FrankDeliGuy_30 Start: 21910, Stop: 22314, Start Num: 13

Candidate Starts for FrankDeliGuy_30:

(Start: 13 @21910 has 40 MA's), (14, 21922), (25, 22120), (27, 22141), (30, 22186), (33, 22195), (42, 22300), (43, 22309),

Gene: Fransoyer_35 Start: 21775, Stop: 22191, Start Num: 13

Candidate Starts for Fransoyer_35:

(5, 21652), (9, 21742), (Start: 13 @21775 has 40 MA's), (22, 21886), (34, 22072), (35, 22075), (44, 22186),

Gene: Fregley_33 Start: 21097, Stop: 21492, Start Num: 12

Candidate Starts for Fregley_33:

(Start: 12 @21097 has 11 MA's), (18, 21148), (23, 21256), (27, 21331), (35, 21397), (41, 21484),

Gene: Gazebo_32 Start: 22390, Stop: 22803, Start Num: 13

Candidate Starts for Gazebo_32:

(6, 22333), (Start: 13 @22390 has 40 MA's), (20, 22462), (23, 22549), (28, 22666), (33, 22681),

Gene: Grassboy_34 Start: 22564, Stop: 22977, Start Num: 13

Candidate Starts for Grassboy_34:

(6, 22507), (Start: 13 @22564 has 40 MA's), (23, 22723), (28, 22840), (33, 22855),

Gene: Hyperion_32 Start: 22347, Stop: 22760, Start Num: 13

Candidate Starts for Hyperion_32:

(6, 22290), (Start: 13 @22347 has 40 MA's), (23, 22506), (28, 22623), (33, 22638),

Gene: Jehoshaphat_35 Start: 22869, Stop: 23273, Start Num: 13

Candidate Starts for Jehoshaphat_35:

(6, 22812), (Start: 13 @22869 has 40 MA's), (15, 22905), (25, 23079), (27, 23100), (30, 23145), (33, 23154), (42, 23259), (43, 23268),

Gene: Judebell_35 Start: 22375, Stop: 22779, Start Num: 13

Candidate Starts for Judebell_35:

(Start: 13 @22375 has 40 MA's), (14, 22387), (25, 22585), (27, 22606), (30, 22651), (33, 22660), (42, 22765), (43, 22774),

Gene: Kelcole_31 Start: 20979, Stop: 21374, Start Num: 12

Candidate Starts for Kelcole_31:

(Start: 12 @20979 has 11 MA's), (16, 21021), (18, 21030), (23, 21138), (29, 21252), (35, 21279), (41, 21366),

Gene: KillerQueen_33 Start: 20774, Stop: 21169, Start Num: 12

Candidate Starts for KillerQueen_33:

(Start: 12 @20774 has 11 MA's), (18, 20825), (23, 20933), (27, 21008), (35, 21074), (41, 21161),

Gene: Kithara_33 Start: 23575, Stop: 23991, Start Num: 11

Candidate Starts for Kithara_33:

(Start: 11 @23575 has 1 MA's), (17, 23635), (19, 23656), (36, 23896), (39, 23938),

Gene: Kyva_35 Start: 22599, Stop: 23012, Start Num: 13

Candidate Starts for Kyva_35:

(6, 22542), (Start: 13 @22599 has 40 MA's), (23, 22758), (28, 22875), (33, 22890),

Gene: Llemily_32 Start: 21645, Stop: 22049, Start Num: 13

Candidate Starts for Llemily_32:

(6, 21588), (Start: 13 @21645 has 40 MA's), (15, 21681), (25, 21855), (27, 21876), (30, 21921), (33, 21930), (42, 22035), (43, 22044),

Gene: Lonelysoil_32 Start: 21890, Stop: 22294, Start Num: 13

Candidate Starts for Lonelysoil_32:

(6, 21833), (Start: 13 @21890 has 40 MA's), (15, 21926), (25, 22100), (27, 22121), (30, 22166), (33, 22175), (42, 22280), (43, 22289),

Gene: Marcie_37 Start: 21635, Stop: 22030, Start Num: 12

Candidate Starts for Marcie_37:

(Start: 12 @21635 has 11 MA's), (16, 21677), (24, 21845), (35, 21935), (41, 22022),

Gene: Mashley_31 Start: 22162, Stop: 22575, Start Num: 13

Candidate Starts for Mashley_31:

(6, 22105), (Start: 13 @22162 has 40 MA's), (20, 22234), (23, 22321), (28, 22438), (33, 22453),

Gene: Mentos_38 Start: 23249, Stop: 23662, Start Num: 13

Candidate Starts for Mentos_38:

(6, 23192), (Start: 13 @23249 has 40 MA's), (23, 23408), (28, 23525), (33, 23540),

Gene: Mila11_36 Start: 23134, Stop: 23547, Start Num: 13

Candidate Starts for Mila11_36:

(6, 23077), (Start: 13 @23134 has 40 MA's), (23, 23293), (28, 23410), (33, 23425),

Gene: MorillMayhem_32 Start: 22160, Stop: 22564, Start Num: 13

Candidate Starts for MorillMayhem_32:

(6, 22103), (Start: 13 @22160 has 40 MA's), (15, 22196), (25, 22370), (27, 22391), (30, 22436), (33, 22445), (42, 22550), (43, 22559),

Gene: Namago_33 Start: 21729, Stop: 22142, Start Num: 13

Candidate Starts for Namago_33:

(6, 21672), (Start: 13 @21729 has 40 MA's), (23, 21888), (28, 22005), (33, 22020),

Gene: Nike_33 Start: 22681, Stop: 23094, Start Num: 13

Candidate Starts for Nike_33:

(6, 22624), (Start: 13 @22681 has 40 MA's), (23, 22840), (28, 22957), (33, 22972),

Gene: OneinaGillian_32 Start: 20626, Stop: 21021, Start Num: 12

Candidate Starts for OneinaGillian_32:

(Start: 12 @20626 has 11 MA's), (18, 20677), (23, 20785), (27, 20860), (35, 20926), (41, 21013),

Gene: Pepe25_31 Start: 20844, Stop: 21239, Start Num: 12

Candidate Starts for Pepe25_31:

(Start: 12 @20844 has 11 MA's), (16, 20886), (18, 20895), (23, 21003), (35, 21144), (40, 21213), (41, 21231),

Gene: Phabia_33 Start: 22063, Stop: 22467, Start Num: 13

Candidate Starts for Phabia_33:

(6, 22006), (Start: 13 @22063 has 40 MA's), (15, 22099), (25, 22273), (27, 22294), (30, 22339), (33, 22348), (42, 22453), (43, 22462),

Gene: Phinky_39 Start: 23231, Stop: 23650, Start Num: 13

Candidate Starts for Phinky_39:

(9, 23201), (Start: 13 @23231 has 40 MA's), (15, 23267), (17, 23276), (22, 23342), (27, 23465), (33, 23522), (43, 23645),

Gene: Quammi_31 Start: 21635, Stop: 22048, Start Num: 13

Candidate Starts for Quammi_31:

(6, 21578), (Start: 13 @21635 has 40 MA's), (15, 21671), (23, 21794), (28, 21911), (33, 21926),

Gene: RobinRose_34 Start: 21130, Stop: 21525, Start Num: 12

Candidate Starts for RobinRose_34:

(Start: 12 @21130 has 11 MA's), (16, 21172), (18, 21181), (23, 21289), (35, 21430), (41, 21517),

Gene: Romm_34 Start: 21130, Stop: 21525, Start Num: 12

Candidate Starts for Romm_34:

(Start: 12 @21130 has 11 MA's), (16, 21172), (18, 21181), (23, 21289), (35, 21430), (41, 21517),

Gene: Rowlf_29 Start: 21810, Stop: 22223, Start Num: 13

Candidate Starts for Rowlf_29:

(6, 21753), (Start: 13 @21810 has 40 MA's), (23, 21969), (28, 22086), (33, 22101),

Gene: RubyRalph_35 Start: 21703, Stop: 22119, Start Num: 13

Candidate Starts for RubyRalph_35:

(5, 21580), (9, 21670), (Start: 13 @21703 has 40 MA's), (22, 21814), (26, 21919), (34, 22000), (35, 22003), (44, 22114),

Gene: Rudy_31 Start: 21668, Stop: 22081, Start Num: 13

Candidate Starts for Rudy_31:

(6, 21611), (10, 21641), (Start: 13 @21668 has 40 MA's), (15, 21704), (23, 21827), (28, 21944), (33, 21959),

Gene: SadLad_37 Start: 22646, Stop: 23062, Start Num: 13

Candidate Starts for SadLad_37:

(1, 22172), (2, 22178), (3, 22205), (4, 22295), (5, 22523), (9, 22613), (Start: 13 @22646 has 40 MA's), (22, 22757), (34, 22943), (35, 22946), (44, 23057),

Gene: SallyK_34 Start: 22743, Stop: 23147, Start Num: 13

Candidate Starts for SallyK_34:

(Start: 13 @22743 has 40 MA's), (15, 22779), (25, 22953), (27, 22974), (30, 23019), (33, 23028), (42, 23133), (43, 23142),

Gene: Sillytadpoles_33 Start: 21633, Stop: 22037, Start Num: 13

Candidate Starts for Sillytadpoles_33:

(6, 21576), (Start: 13 @21633 has 40 MA's), (15, 21669), (25, 21843), (27, 21864), (30, 21909), (33, 21918), (42, 22023), (43, 22032),

Gene: SlySloth_35 Start: 22638, Stop: 23036, Start Num: 13

Candidate Starts for SlySloth_35:

(7, 22584), (Start: 13 @22638 has 40 MA's), (15, 22674), (25, 22848), (27, 22869), (30, 22914), (33, 22923),

Gene: Squash_35 Start: 22692, Stop: 23105, Start Num: 13

Candidate Starts for Squash_35:

(6, 22635), (Start: 13 @22692 has 40 MA's), (23, 22851), (28, 22968), (33, 22983),

Gene: Statler_34 Start: 22552, Stop: 22956, Start Num: 13

Candidate Starts for Statler_34:

(8, 22507), (Start: 13 @22552 has 40 MA's), (14, 22564), (15, 22588), (25, 22762), (27, 22783), (30, 22828), (33, 22837), (42, 22942), (43, 22951),

Gene: StrawberryJamm_35 Start: 21872, Stop: 22285, Start Num: 13

Candidate Starts for StrawberryJamm_35:

(6, 21815), (Start: 13 @21872 has 40 MA's), (23, 22031), (28, 22148), (33, 22163),

Gene: Sunfish_41 Start: 23003, Stop: 23479, Start Num: 13

Candidate Starts for Sunfish_41:

(Start: 13 @23003 has 40 MA's), (21, 23084), (27, 23234), (31, 23288), (34, 23306), (37, 23333),

Gene: Teehee_34 Start: 22869, Stop: 23273, Start Num: 13

Candidate Starts for Teehee_34:

(6, 22812), (Start: 13 @22869 has 40 MA's), (15, 22905), (25, 23079), (27, 23100), (30, 23145), (33, 23154), (42, 23259), (43, 23268),

Gene: Tempo_32 Start: 21006, Stop: 21401, Start Num: 12

Candidate Starts for Tempo_32:

(Start: 12 @21006 has 11 MA's), (16, 21048), (18, 21057), (23, 21165), (32, 21288), (35, 21306), (41, 21393),

Gene: Tissue_33 Start: 22386, Stop: 22790, Start Num: 13

Candidate Starts for Tissue_33:

(Start: 13 @22386 has 40 MA's), (14, 22398), (25, 22596), (27, 22617), (30, 22662), (33, 22671), (42, 22776), (43, 22785),

Gene: Viceroy_32 Start: 21635, Stop: 22048, Start Num: 13

Candidate Starts for Viceroy_32:

(6, 21578), (Start: 13 @21635 has 40 MA's), (15, 21671), (23, 21794), (28, 21911), (33, 21926),

Gene: Wayne3_34 Start: 22632, Stop: 23036, Start Num: 13

Candidate Starts for Wayne3_34:

(6, 22575), (Start: 13 @22632 has 40 MA's), (15, 22668), (25, 22842), (27, 22863), (30, 22908), (33, 22917), (42, 23022), (43, 23031),

Gene: WheelerS25_38 Start: 23392, Stop: 23796, Start Num: 13

Candidate Starts for WheelerS25_38:

(6, 23335), (Start: 13 @23392 has 40 MA's), (25, 23602), (27, 23623), (30, 23668), (33, 23677), (42, 23782), (43, 23791),

Gene: Wheelie_32 Start: 21950, Stop: 22354, Start Num: 13

Candidate Starts for Wheelie_32:

(6, 21893), (Start: 13 @21950 has 40 MA's), (15, 21986), (25, 22160), (27, 22181), (30, 22226), (33, 22235), (42, 22340), (43, 22349),

Gene: Wilca_32 Start: 20827, Stop: 21222, Start Num: 12

Candidate Starts for Wilca_32:

(Start: 12 @20827 has 11 MA's), (16, 20869), (18, 20878), (23, 20986), (35, 21127), (40, 21196), (41, 21214),

Gene: Zagie_33 Start: 22073, Stop: 22486, Start Num: 13

Candidate Starts for Zagie_33:

(6, 22016), (Start: 13 @22073 has 40 MA's), (23, 22232), (28, 22349), (33, 22364),

Gene: Zhafia_35 Start: 22428, Stop: 22832, Start Num: 13

Candidate Starts for Zhafia_35:

(6, 22371), (Start: 13 @22428 has 40 MA's), (15, 22464), (25, 22638), (27, 22659), (30, 22704), (33, 22713), (42, 22818), (43, 22827),