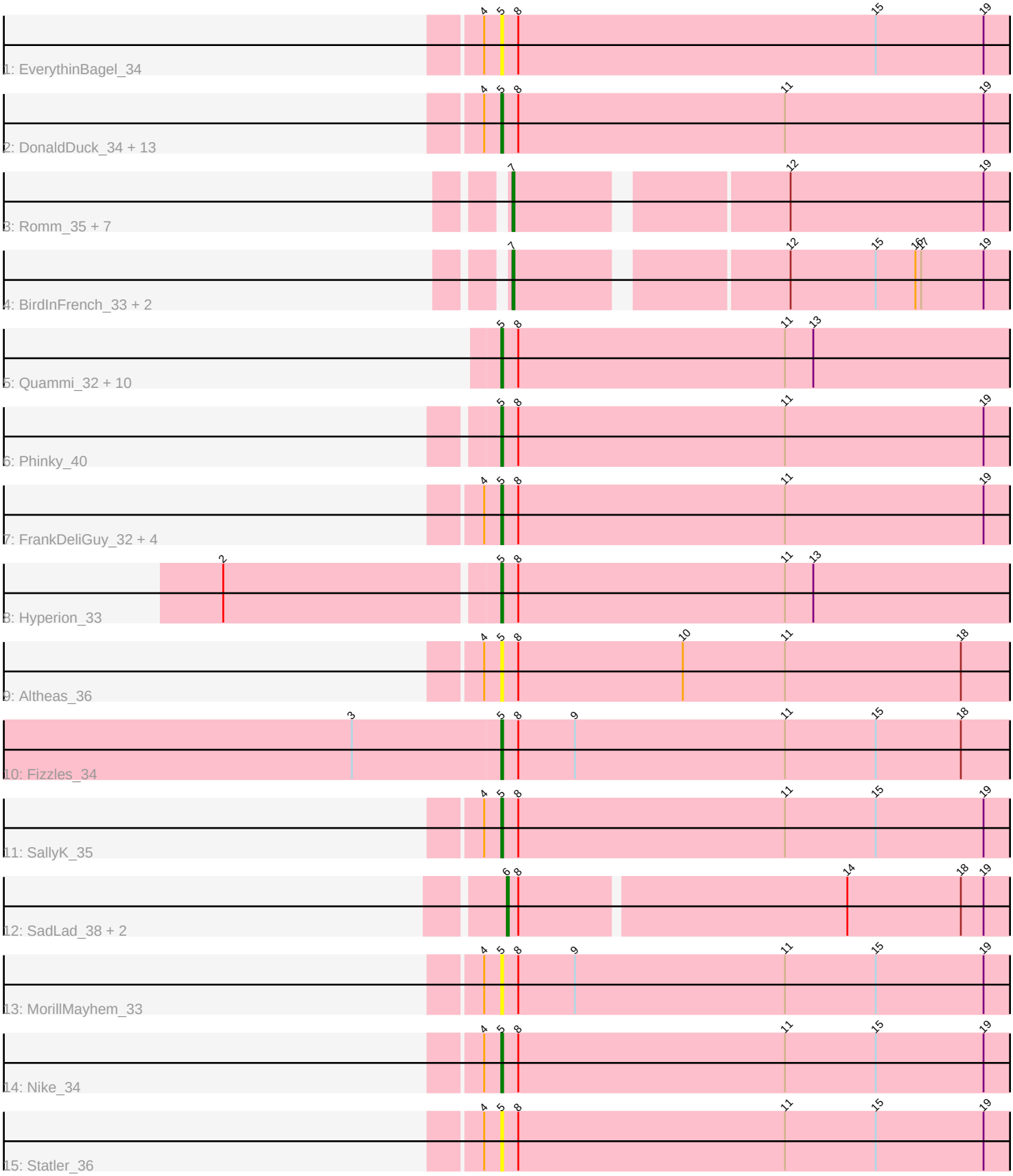
Zoomed Pham 216235



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 216235 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216235 has 53 members, 13 are drafts.

Phages represented in each track:
• Track 1 : EverythinBagel_34
• Track 2 : DonaldDuck_34, Phabia_34, Judebell_36, Tissue_34, Wayne3_35, Lonelysoil_33, Wheelie_33, Sillytadpoles_35, Jehoshaphat_36, Llemily_34, Squash_36, Teehee_35, Casend_35, Zhafia_37
• Track 3 : Romm_35, OneinaGillian_33, RobinRose_35, Marcie_38, Fregley_34, Kelcole_32, CandC_32, Tempo_33
• Track 4 : BirdInFrench_33, Wilca_33, Pepe25_32
• Track 5 : Quammi_32, Rowlf_30, Viceroy_33, Gazebo_33, AluminumJesus_32, Rudy_32, Blab_32, Zagie_34, Mashley_32, StrawberryJamm_36, Mentos_39
• Track 6 : Phinky_40
• Track 7 : FrankDeliGuy_32, Namago_34, BabyDotz_33, Kyva_36, Grassboy_35
• Track 8 : Hyperion_33
• Track 9 : Altheas_36
• Track 10 : Fizzles_34
• Track 11 : SallyK_35
• Track 12 : SadLad_38, RubyRalph_36, Fransoyer_36
• Track 13 : MorillMayhem_33
• Track 14 : Nike_34
• Track 15 : Statler_36

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

The start number called the most often in the published annotations is 5, it was called in 27 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_36, AluminumJesus_32, BabyDotz_33, Blab_32, Casend_35, DonaldDuck_34, EverythinBagel_34, Fizzles_34, FrankDeliGuy_32, Gazebo_33, Grassboy_35, Hyperion_33, Jehoshaphat_36, Judebell_36, Kyva_36, Llemily_34, Lonelysoil_33, Mashley_32, Mentos_39, MorillMayhem_33, Namago_34, Nike_34, Phabia_34, Phinky_40, Quammi_32, Rowlf_30, Rudy_32, SallyK_35, Sillytadpoles_35, Squash_36, Statler_36, StrawberryJamm_36, Teehee_35, Tissue_34, Viceroy_33, Wayne3_35, Wheelie_33, Zagie_34, Zhafia_37,

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, Marcie_38, OneinaGillian_33, Pepe25_32, RobinRose_35, Romm_35, RubyRalph_36, SadLad_38, Tempo_33, Wilca_33,

Summary by start number:

Start 5:
• Found in 39 of 53 (73.6%) of genes in pham
• Manual Annotations of this start: 27 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_36 (EG), AluminumJesus_32 (EG), BabyDotz_33 (EG), Blab_32 (EG), Casend_35 (EG), DonaldDuck_34 (EG), EverythinBagel_34 (EG), Fizzles_34 (EG), FrankDeliGuy_32 (EG), Gazebo_33 (EG), Grassboy_35 (EG), Hyperion_33 (EG), Jehoshaphat_36 (EG), Judebell_36 (EG), Kyva_36 (EG), Llemily_34 (EG), Lonelysoil_33 (EG), Mashley_32 (EG), Mentos_39 (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_35 (EG), Squash_36 (EG), Statler_36 (EG), StrawberryJamm_36 (EG), Teehee_35 (EG), Tissue_34 (EG), Viceroy_33 (EG), Wayne3_35 (EG), Wheelie_33 (EG), Zagie_34 (EG), Zhafia_37 (EG),

Start 6:
• Found in 3 of 53 (5.7%) of genes in pham
• Manual Annotations of this start: 3 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fransoyer_36 (EG), RubyRalph_36 (EG), SadLad_38 (EG),

Start 7:
• Found in 11 of 53 (20.8%) of genes in pham
• Manual Annotations of this start: 10 of 40
• 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), Marcie_38 (EG), OneinaGillian_33 (EG), Pepe25_32 (EG), RobinRose_35 (EG), Romm_35 (EG), Tempo_33 (EG), Wilca_33 (EG),

Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:
•Start number 5 was manually annotated 27 times for cluster EG.
•Start number 6 was manually annotated 3 times for cluster EG.
•Start number 7 was manually annotated 10 times for cluster EG.

Gene Information:

Gene: Altheas_36 Start: 22886, Stop: 23344, Start Num: 5
Candidate Starts for Altheas_36:
(4, 22877), (Start: 5 @22886 has 27 MA's), (8, 22895), (10, 22982), (11, 23036), (18, 23129),

Gene: AluminumJesus_32 Start: 22382, Stop: 22840, Start Num: 5
Candidate Starts for AluminumJesus_32:
(Start: 5 @22382 has 27 MA's), (8, 22391), (11, 22532), (13, 22547), (21, 22670),

Gene: BabyDotz_33 Start: 22636, Stop: 23094, Start Num: 5
Candidate Starts for BabyDotz_33:
(4, 22627), (Start: 5 @22636 has 27 MA's), (8, 22645), (11, 22786), (19, 22891), (24, 23038),

Gene: BirdInFrench_33 Start: 21258, Stop: 21692, Start Num: 7
Candidate Starts for BirdInFrench_33:
(Start: 7 @21258 has 10 MA's), (12, 21390), (15, 21435), (16, 21456), (17, 21459), (19, 21492), (22, 21561),

Gene: Blab_32 Start: 22307, Stop: 22765, Start Num: 5
Candidate Starts for Blab_32:
(Start: 5 @22307 has 27 MA's), (8, 22316), (11, 22457), (13, 22472), (21, 22595),

Gene: CandC_32 Start: 20958, Stop: 21392, Start Num: 7
Candidate Starts for CandC_32:
(Start: 7 @20958 has 10 MA's), (12, 21090), (19, 21192), (20, 21222), (22, 21261),

Gene: Casend_35 Start: 23045, Stop: 23503, Start Num: 5
Candidate Starts for Casend_35:
(4, 23036), (Start: 5 @23045 has 27 MA's), (8, 23054), (11, 23195), (19, 23300),

Gene: DonaldDuck_34 Start: 22391, Stop: 22849, Start Num: 5
Candidate Starts for DonaldDuck_34:
(4, 22382), (Start: 5 @22391 has 27 MA's), (8, 22400), (11, 22541), (19, 22646),

Gene: EverythinBagel_34 Start: 22779, Stop: 23237, Start Num: 5
Candidate Starts for EverythinBagel_34:
(4, 22770), (Start: 5 @22779 has 27 MA's), (8, 22788), (15, 22977), (19, 23034),

Gene: Fizzles_34 Start: 22106, Stop: 22564, Start Num: 5
Candidate Starts for Fizzles_34:
(1, 21728), (3, 22028), (Start: 5 @22106 has 27 MA's), (8, 22115), (9, 22145), (11, 22256), (15, 22304), (18, 22349),

Gene: FrankDeliGuy_32 Start: 22351, Stop: 22809, Start Num: 5
Candidate Starts for FrankDeliGuy_32:
(4, 22342), (Start: 5 @22351 has 27 MA's), (8, 22360), (11, 22501), (19, 22606), (24, 22753),

Gene: Fransoyer_36 Start: 22231, Stop: 22677, Start Num: 6
Candidate Starts for Fransoyer_36:
(Start: 6 @22231 has 3 MA's), (8, 22237), (14, 22405), (18, 22465), (19, 22477),

Gene: Fregley_34 Start: 21528, Stop: 21962, Start Num: 7
Candidate Starts for Fregley_34:
(Start: 7 @21528 has 10 MA's), (12, 21660), (19, 21762), (20, 21792), (22, 21831),

Gene: Gazebo_33 Start: 22845, Stop: 23303, Start Num: 5
Candidate Starts for Gazebo_33:
(Start: 5 @22845 has 27 MA's), (8, 22854), (11, 22995), (13, 23010), (21, 23133),

Gene: Grassboy_35 Start: 23020, Stop: 23478, Start Num: 5
Candidate Starts for Grassboy_35:
(4, 23011), (Start: 5 @23020 has 27 MA's), (8, 23029), (11, 23170), (19, 23275), (24, 23422),

Gene: Hyperion_33 Start: 22801, Stop: 23259, Start Num: 5
Candidate Starts for Hyperion_33:
(2, 22660), (Start: 5 @22801 has 27 MA's), (8, 22810), (11, 22951), (13, 22966), (21, 23089),

Gene: Jehoshaphat_36 Start: 23310, Stop: 23768, Start Num: 5
Candidate Starts for Jehoshaphat_36:
(4, 23301), (Start: 5 @23310 has 27 MA's), (8, 23319), (11, 23460), (19, 23565),

Gene: Judebell_36 Start: 22816, Stop: 23274, Start Num: 5
Candidate Starts for Judebell_36:
(4, 22807), (Start: 5 @22816 has 27 MA's), (8, 22825), (11, 22966), (19, 23071),

Gene: Kelcole_32 Start: 21410, Stop: 21844, Start Num: 7
Candidate Starts for Kelcole_32:
(Start: 7 @21410 has 10 MA's), (12, 21542), (19, 21644), (20, 21674), (22, 21713),

Gene: Kyva_36 Start: 23055, Stop: 23513, Start Num: 5
Candidate Starts for Kyva_36:
(4, 23046), (Start: 5 @23055 has 27 MA's), (8, 23064), (11, 23205), (19, 23310), (24, 23457),

Gene: Llemily_34 Start: 22086, Stop: 22544, Start Num: 5
Candidate Starts for Llemily_34:
(4, 22077), (Start: 5 @22086 has 27 MA's), (8, 22095), (11, 22236), (19, 22341),

Gene: Lonelysoil_33 Start: 22331, Stop: 22789, Start Num: 5
Candidate Starts for Lonelysoil_33:
(4, 22322), (Start: 5 @22331 has 27 MA's), (8, 22340), (11, 22481), (19, 22586),

Gene: Marcie_38 Start: 22066, Stop: 22500, Start Num: 7
Candidate Starts for Marcie_38:
(Start: 7 @22066 has 10 MA's), (12, 22198), (19, 22300), (20, 22330), (22, 22369),

Gene: Mashley_32 Start: 22617, Stop: 23075, Start Num: 5
Candidate Starts for Mashley_32:
(Start: 5 @22617 has 27 MA's), (8, 22626), (11, 22767), (13, 22782), (21, 22905),

Gene: Mentos_39 Start: 23704, Stop: 24162, Start Num: 5
Candidate Starts for Mentos_39:
(Start: 5 @23704 has 27 MA's), (8, 23713), (11, 23854), (13, 23869), (21, 23992),

Gene: MorillMayhem_33 Start: 22601, Stop: 23059, Start Num: 5
Candidate Starts for MorillMayhem_33:
(4, 22592), (Start: 5 @22601 has 27 MA's), (8, 22610), (9, 22640), (11, 22751), (15, 22799), (19, 22856),

Gene: Namago_34 Start: 22185, Stop: 22643, Start Num: 5
Candidate Starts for Namago_34:
(4, 22176), (Start: 5 @22185 has 27 MA's), (8, 22194), (11, 22335), (19, 22440), (24, 22587),

Gene: Nike_34 Start: 23137, Stop: 23595, Start Num: 5
Candidate Starts for Nike_34:
(4, 23128), (Start: 5 @23137 has 27 MA's), (8, 23146), (11, 23287), (15, 23335), (19, 23392), (24, 23539),

Gene: OneinaGillian_33 Start: 21057, Stop: 21491, Start Num: 7
Candidate Starts for OneinaGillian_33:
(Start: 7 @21057 has 10 MA's), (12, 21189), (19, 21291), (20, 21321), (22, 21360),

Gene: Pepe25_32 Start: 21275, Stop: 21709, Start Num: 7
Candidate Starts for Pepe25_32:
(Start: 7 @21275 has 10 MA's), (12, 21407), (15, 21452), (16, 21473), (17, 21476), (19, 21509), (22, 21578),

Gene: Phabia_34 Start: 22504, Stop: 22962, Start Num: 5
Candidate Starts for Phabia_34:
(4, 22495), (Start: 5 @22504 has 27 MA's), (8, 22513), (11, 22654), (19, 22759),

Gene: Phinky_40 Start: 23684, Stop: 24142, Start Num: 5
Candidate Starts for Phinky_40:
(Start: 5 @23684 has 27 MA's), (8, 23693), (11, 23834), (19, 23939), (21, 23972), (23, 24029),

Gene: Quammi_32 Start: 22090, Stop: 22548, Start Num: 5
Candidate Starts for Quammi_32:
(Start: 5 @22090 has 27 MA's), (8, 22099), (11, 22240), (13, 22255), (21, 22378),

Gene: RobinRose_35 Start: 21561, Stop: 21995, Start Num: 7
Candidate Starts for RobinRose_35:
(Start: 7 @21561 has 10 MA's), (12, 21693), (19, 21795), (20, 21825), (22, 21864),

Gene: Romm_35 Start: 21561, Stop: 21995, Start Num: 7
Candidate Starts for Romm_35:
(Start: 7 @21561 has 10 MA's), (12, 21693), (19, 21795), (20, 21825), (22, 21864),

Gene: Rowlf_30 Start: 22265, Stop: 22723, Start Num: 5
Candidate Starts for Rowlf_30:
(Start: 5 @22265 has 27 MA's), (8, 22274), (11, 22415), (13, 22430), (21, 22553),

Gene: RubyRalph_36 Start: 22159, Stop: 22605, Start Num: 6
Candidate Starts for RubyRalph_36:
(Start: 6 @22159 has 3 MA's), (8, 22165), (14, 22333), (18, 22393), (19, 22405),

Gene: Rudy_32 Start: 22123, Stop: 22581, Start Num: 5
Candidate Starts for Rudy_32:
(Start: 5 @22123 has 27 MA's), (8, 22132), (11, 22273), (13, 22288), (21, 22411),

Gene: SadLad_38 Start: 23102, Stop: 23548, Start Num: 6
Candidate Starts for SadLad_38:

(Start: 6 @23102 has 3 MA's), (8, 23108), (14, 23276), (18, 23336), (19, 23348),

Gene: SallyK_35 Start: 23184, Stop: 23642, Start Num: 5
Candidate Starts for SallyK_35:
(4, 23175), (Start: 5 @23184 has 27 MA's), (8, 23193), (11, 23334), (15, 23382), (19, 23439),

Gene: Sillytadpoles_35 Start: 22074, Stop: 22532, Start Num: 5
Candidate Starts for Sillytadpoles_35:
(4, 22065), (Start: 5 @22074 has 27 MA's), (8, 22083), (11, 22224), (19, 22329),

Gene: Squash_36 Start: 23148, Stop: 23606, Start Num: 5
Candidate Starts for Squash_36:
(4, 23139), (Start: 5 @23148 has 27 MA's), (8, 23157), (11, 23298), (19, 23403),

Gene: Statler_36 Start: 22993, Stop: 23451, Start Num: 5
Candidate Starts for Statler_36:
(4, 22984), (Start: 5 @22993 has 27 MA's), (8, 23002), (11, 23143), (15, 23191), (19, 23248), (22, 23317),

Gene: StrawberryJamm_36 Start: 22327, Stop: 22785, Start Num: 5
Candidate Starts for StrawberryJamm_36:
(Start: 5 @22327 has 27 MA's), (8, 22336), (11, 22477), (13, 22492), (21, 22615),

Gene: Teehee_35 Start: 23310, Stop: 23768, Start Num: 5
Candidate Starts for Teehee_35:
(4, 23301), (Start: 5 @23310 has 27 MA's), (8, 23319), (11, 23460), (19, 23565),

Gene: Tempo_33 Start: 21437, Stop: 21871, Start Num: 7
Candidate Starts for Tempo_33:
(Start: 7 @21437 has 10 MA's), (12, 21569), (19, 21671), (20, 21701), (22, 21740),

Gene: Tissue_34 Start: 22827, Stop: 23285, Start Num: 5
Candidate Starts for Tissue_34:
(4, 22818), (Start: 5 @22827 has 27 MA's), (8, 22836), (11, 22977), (19, 23082),

Gene: Viceroy_33 Start: 22090, Stop: 22548, Start Num: 5
Candidate Starts for Viceroy_33:
(Start: 5 @22090 has 27 MA's), (8, 22099), (11, 22240), (13, 22255), (21, 22378),

Gene: Wayne3_35 Start: 23073, Stop: 23531, Start Num: 5
Candidate Starts for Wayne3_35:
(4, 23064), (Start: 5 @23073 has 27 MA's), (8, 23082), (11, 23223), (19, 23328),

Gene: Wheelie_33 Start: 22391, Stop: 22849, Start Num: 5
Candidate Starts for Wheelie_33:
(4, 22382), (Start: 5 @22391 has 27 MA's), (8, 22400), (11, 22541), (19, 22646),

Gene: Wilca_33 Start: 21258, Stop: 21692, Start Num: 7
Candidate Starts for Wilca_33:
(Start: 7 @21258 has 10 MA's), (12, 21390), (15, 21435), (16, 21456), (17, 21459), (19, 21492), (22, 21561),

Gene: Zagie_34 Start: 22528, Stop: 22986, Start Num: 5

Candidate Starts for Zagie_34:
(Start: 5 @22528 has 27 MA's), (8, 22537), (11, 22678), (13, 22693), (21, 22816),

Gene: Zhafia_37 Start: 22869, Stop: 23327, Start Num: 5
Candidate Starts for Zhafia_37:
(4, 22860), (Start: 5 @22869 has 27 MA's), (8, 22878), (11, 23019), (19, 23124),