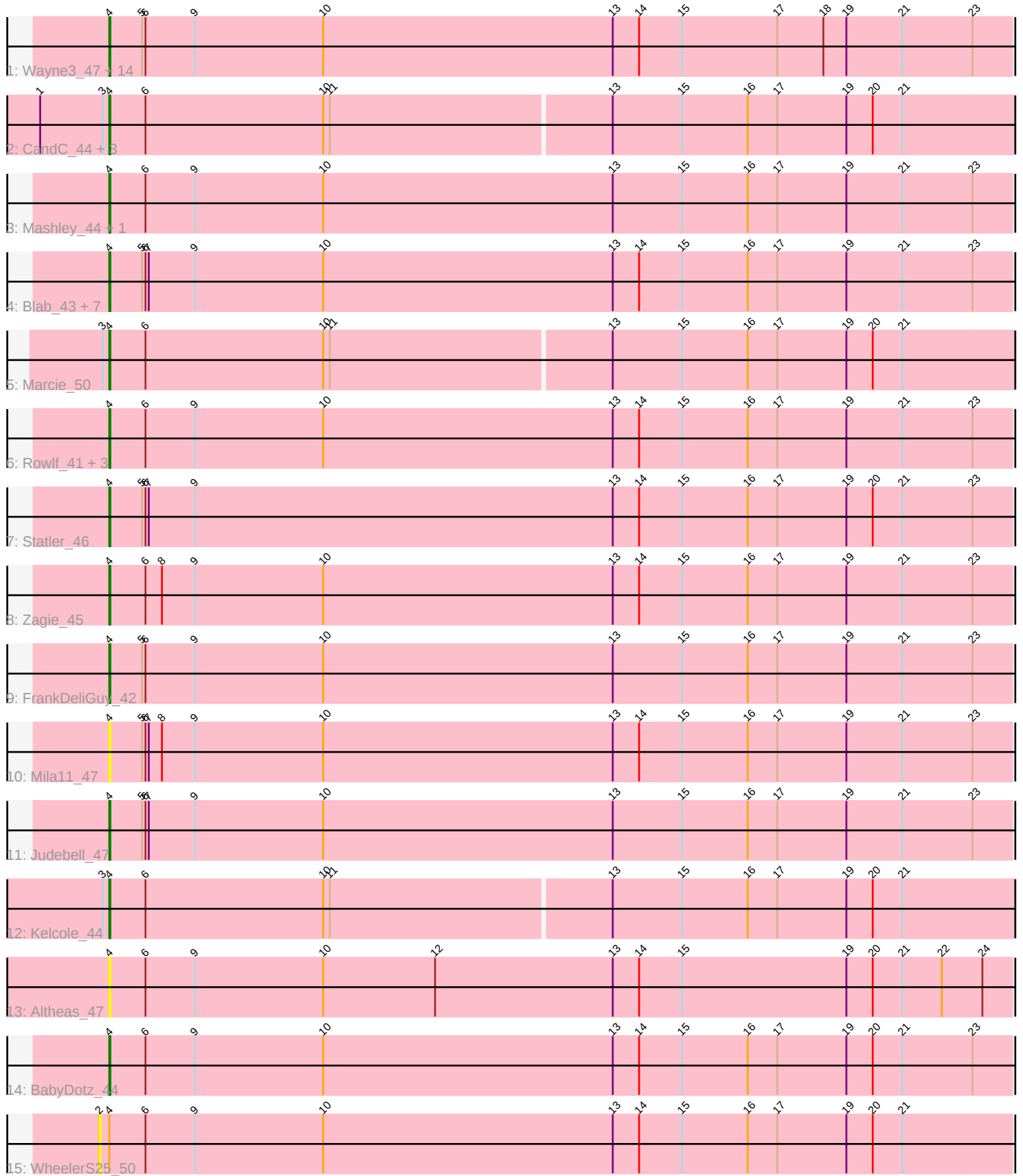


Pham 268166



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 268166 Report

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

Pham number 268166 has 43 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Wayne3_47, Casend_46, Jehoshaphat_47, Sillytadpoles_46, Llemily_45, Teehee_46, Zhafia_48, Phabia_45, DonaldDuck_45, Quammi_43, Viceroy_44, Rudy_43, Wheelie_45, EverythinBagel_44, Lonelysoil_44
- Track 2 : CandC_44, KillerQueen_45, Romm_47, RobinRose_47
- Track 3 : Mashley_44, MorillMayhem_45
- Track 4 : Blab_43, Kyva_47, Grassboy_46, SlySloth_48, Namago_45, StrawberryJamm_47, Mentos_49, SallyK_46
- Track 5 : Marcie_50
- Track 6 : Rowlf_41, Squash_48, Nike_46, Tissue_46
- Track 7 : Statler_46
- Track 8 : Zagie_45
- Track 9 : FrankDeliGuy_42
- Track 10 : Mila11_47
- Track 11 : Judebell_47
- Track 12 : Kelcole_44
- Track 13 : Altheas_47
- Track 14 : BabyDotz_44
- Track 15 : WheelerS25_50

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

The start number called the most often in the published annotations is 4, it was called in 36 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altheas_47, BabyDotz_44, Blab_43, CandC_44, Casend_46, DonaldDuck_45, EverythinBagel_44, FrankDeliGuy_42, Grassboy_46, Jehoshaphat_47, Judebell_47, Kelcole_44, KillerQueen_45, Kyva_47, Llemily_45, Lonelysoil_44, Marcie_50, Mashley_44, Mentos_49, Mila11_47, MorillMayhem_45, Namago_45, Nike_46, Phabia_45, Quammi_43, RobinRose_47, Romm_47, Rowlf_41, Rudy_43, SallyK_46, Sillytadpoles_46, SlySloth_48, Squash_48, Statler_46, StrawberryJamm_47, Teehee_46, Tissue_46, Viceroy_44, Wayne3_47, Wheelie_45, Zagie_45, Zhafia_48,

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

- WheelerS25_50,

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

-

Summary by start number:

Start 2:

- Found in 1 of 43 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WheelerS25_50 (EG),

Start 4:

- Found in 43 of 43 (100.0%) of genes in pham
- Manual Annotations of this start: 36 of 36
- Called 97.7% of time when present
- Phage (with cluster) where this start called: Altheas_47 (EG), BabyDotz_44 (EG), Blab_43 (EG), CandC_44 (EG), Casend_46 (EG), DonaldDuck_45 (EG), EverythinBagel_44 (EG), FrankDeliGuy_42 (EG), Grassboy_46 (EG), Jehoshaphat_47 (EG), Judebell_47 (EG), Kelcole_44 (EG), KillerQueen_45 (EG), Kyva_47 (EG), Llemily_45 (EG), Lonelysoil_44 (EG), Marcie_50 (EG), Mashley_44 (EG), Mentos_49 (EG), Mila11_47 (EG), MorillMayhem_45 (EG), Namago_45 (EG), Nike_46 (EG), Phabia_45 (EG), Quammi_43 (EG), RobinRose_47 (EG), Romm_47 (EG), Rowlf_41 (EG), Rudy_43 (EG), SallyK_46 (EG), Sillytadpoles_46 (EG), SlySloth_48 (EG), Squash_48 (EG), Statler_46 (EG), StrawberryJamm_47 (EG), Teehee_46 (EG), Tissue_46 (EG), Viceroy_44 (EG), Wayne3_47 (EG), Wheelie_45 (EG), Zagie_45 (EG), Zhafia_48 (EG),

Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 4 was manually annotated 36 times for cluster EG.

Gene Information:

Gene: Altheas_47 Start: 34777, Stop: 35598, Start Num: 4

Candidate Starts for Altheas_47:

(Start: 4 @34777 has 36 MA's), (6, 34810), (9, 34855), (10, 34972), (12, 35074), (13, 35236), (14, 35260), (15, 35299), (19, 35449), (20, 35473), (21, 35500), (22, 35536), (24, 35572),

Gene: BabyDotz_44 Start: 35141, Stop: 35962, Start Num: 4

Candidate Starts for BabyDotz_44:

(Start: 4 @35141 has 36 MA's), (6, 35174), (9, 35219), (10, 35336), (13, 35600), (14, 35624), (15, 35663), (16, 35723), (17, 35750), (19, 35813), (20, 35837), (21, 35864), (23, 35927),

Gene: Blab_43 Start: 34265, Stop: 35086, Start Num: 4

Candidate Starts for Blab_43:

(Start: 4 @34265 has 36 MA's), (5, 34295), (6, 34298), (7, 34301), (9, 34343), (10, 34460), (13, 34724), (14, 34748), (15, 34787), (16, 34847), (17, 34874), (19, 34937), (21, 34988), (23, 35051),

Gene: CandC_44 Start: 33313, Stop: 34134, Start Num: 4

Candidate Starts for CandC_44:

(1, 33250), (3, 33307), (Start: 4 @33313 has 36 MA's), (6, 33346), (10, 33508), (11, 33514), (13, 33766), (15, 33829), (16, 33889), (17, 33916), (19, 33979), (20, 34003), (21, 34030),

Gene: Casend_46 Start: 34902, Stop: 35723, Start Num: 4

Candidate Starts for Casend_46:

(Start: 4 @34902 has 36 MA's), (5, 34932), (6, 34935), (9, 34980), (10, 35097), (13, 35361), (14, 35385), (15, 35424), (17, 35511), (18, 35553), (19, 35574), (21, 35625), (23, 35688),

Gene: DonaldDuck_45 Start: 34251, Stop: 35072, Start Num: 4

Candidate Starts for DonaldDuck_45:

(Start: 4 @34251 has 36 MA's), (5, 34281), (6, 34284), (9, 34329), (10, 34446), (13, 34710), (14, 34734), (15, 34773), (17, 34860), (18, 34902), (19, 34923), (21, 34974), (23, 35037),

Gene: EverythinBagel_44 Start: 34639, Stop: 35460, Start Num: 4

Candidate Starts for EverythinBagel_44:

(Start: 4 @34639 has 36 MA's), (5, 34669), (6, 34672), (9, 34717), (10, 34834), (13, 35098), (14, 35122), (15, 35161), (17, 35248), (18, 35290), (19, 35311), (21, 35362), (23, 35425),

Gene: FrankDeliGuy_42 Start: 34202, Stop: 35023, Start Num: 4

Candidate Starts for FrankDeliGuy_42:

(Start: 4 @34202 has 36 MA's), (5, 34232), (6, 34235), (9, 34280), (10, 34397), (13, 34661), (15, 34724), (16, 34784), (17, 34811), (19, 34874), (21, 34925), (23, 34988),

Gene: Grassboy_46 Start: 34864, Stop: 35685, Start Num: 4

Candidate Starts for Grassboy_46:

(Start: 4 @34864 has 36 MA's), (5, 34894), (6, 34897), (7, 34900), (9, 34942), (10, 35059), (13, 35323), (14, 35347), (15, 35386), (16, 35446), (17, 35473), (19, 35536), (21, 35587), (23, 35650),

Gene: Jehoshaphat_47 Start: 35170, Stop: 35991, Start Num: 4

Candidate Starts for Jehoshaphat_47:

(Start: 4 @35170 has 36 MA's), (5, 35200), (6, 35203), (9, 35248), (10, 35365), (13, 35629), (14, 35653), (15, 35692), (17, 35779), (18, 35821), (19, 35842), (21, 35893), (23, 35956),

Gene: Judebell_47 Start: 34667, Stop: 35488, Start Num: 4

Candidate Starts for Judebell_47:

(Start: 4 @34667 has 36 MA's), (5, 34697), (6, 34700), (7, 34703), (9, 34745), (10, 34862), (13, 35126), (15, 35189), (16, 35249), (17, 35276), (19, 35339), (21, 35390), (23, 35453),

Gene: Kelcole_44 Start: 33768, Stop: 34589, Start Num: 4

Candidate Starts for Kelcole_44:

(3, 33762), (Start: 4 @33768 has 36 MA's), (6, 33801), (10, 33963), (11, 33969), (13, 34221), (15, 34284), (16, 34344), (17, 34371), (19, 34434), (20, 34458), (21, 34485),

Gene: KillerQueen_45 Start: 33563, Stop: 34384, Start Num: 4

Candidate Starts for KillerQueen_45:

(1, 33500), (3, 33557), (Start: 4 @33563 has 36 MA's), (6, 33596), (10, 33758), (11, 33764), (13, 34016), (15, 34079), (16, 34139), (17, 34166), (19, 34229), (20, 34253), (21, 34280),

Gene: Kyva_47 Start: 34899, Stop: 35720, Start Num: 4

Candidate Starts for Kyva_47:

(Start: 4 @34899 has 36 MA's), (5, 34929), (6, 34932), (7, 34935), (9, 34977), (10, 35094), (13, 35358), (14, 35382), (15, 35421), (16, 35481), (17, 35508), (19, 35571), (21, 35622), (23, 35685),

Gene: Llemily_45 Start: 33946, Stop: 34767, Start Num: 4

Candidate Starts for Llemily_45:

(Start: 4 @33946 has 36 MA's), (5, 33976), (6, 33979), (9, 34024), (10, 34141), (13, 34405), (14, 34429), (15, 34468), (17, 34555), (18, 34597), (19, 34618), (21, 34669), (23, 34732),

Gene: Lonelysoil_44 Start: 34188, Stop: 35009, Start Num: 4

Candidate Starts for Lonelysoil_44:

(Start: 4 @34188 has 36 MA's), (5, 34218), (6, 34221), (9, 34266), (10, 34383), (13, 34647), (14, 34671), (15, 34710), (17, 34797), (18, 34839), (19, 34860), (21, 34911), (23, 34974),

Gene: Marcie_50 Start: 34414, Stop: 35235, Start Num: 4

Candidate Starts for Marcie_50:

(3, 34408), (Start: 4 @34414 has 36 MA's), (6, 34447), (10, 34609), (11, 34615), (13, 34867), (15, 34930), (16, 34990), (17, 35017), (19, 35080), (20, 35104), (21, 35131),

Gene: Mashley_44 Start: 34586, Stop: 35407, Start Num: 4

Candidate Starts for Mashley_44:

(Start: 4 @34586 has 36 MA's), (6, 34619), (9, 34664), (10, 34781), (13, 35045), (15, 35108), (16, 35168), (17, 35195), (19, 35258), (21, 35309), (23, 35372),

Gene: Mentos_49 Start: 35680, Stop: 36501, Start Num: 4

Candidate Starts for Mentos_49:

(Start: 4 @35680 has 36 MA's), (5, 35710), (6, 35713), (7, 35716), (9, 35758), (10, 35875), (13, 36139), (14, 36163), (15, 36202), (16, 36262), (17, 36289), (19, 36352), (21, 36403), (23, 36466),

Gene: Mila11_47 Start: 35553, Stop: 36374, Start Num: 4

Candidate Starts for Mila11_47:

(Start: 4 @35553 has 36 MA's), (5, 35583), (6, 35586), (7, 35589), (8, 35601), (9, 35631), (10, 35748), (13, 36012), (14, 36036), (15, 36075), (16, 36135), (17, 36162), (19, 36225), (21, 36276), (23, 36339),

Gene: MorillMayhem_45 Start: 34460, Stop: 35281, Start Num: 4

Candidate Starts for MorillMayhem_45:

(Start: 4 @34460 has 36 MA's), (6, 34493), (9, 34538), (10, 34655), (13, 34919), (15, 34982), (16, 35042), (17, 35069), (19, 35132), (21, 35183), (23, 35246),

Gene: Namago_45 Start: 34029, Stop: 34850, Start Num: 4

Candidate Starts for Namago_45:

(Start: 4 @34029 has 36 MA's), (5, 34059), (6, 34062), (7, 34065), (9, 34107), (10, 34224), (13, 34488), (14, 34512), (15, 34551), (16, 34611), (17, 34638), (19, 34701), (21, 34752), (23, 34815),

Gene: Nike_46 Start: 34984, Stop: 35805, Start Num: 4

Candidate Starts for Nike_46:

(Start: 4 @34984 has 36 MA's), (6, 35017), (9, 35062), (10, 35179), (13, 35443), (14, 35467), (15, 35506), (16, 35566), (17, 35593), (19, 35656), (21, 35707), (23, 35770),

Gene: Phabia_45 Start: 34361, Stop: 35182, Start Num: 4

Candidate Starts for Phabia_45:

(Start: 4 @34361 has 36 MA's), (5, 34391), (6, 34394), (9, 34439), (10, 34556), (13, 34820), (14, 34844), (15, 34883), (17, 34970), (18, 35012), (19, 35033), (21, 35084), (23, 35147),

Gene: Quammi_43 Start: 34061, Stop: 34882, Start Num: 4

Candidate Starts for Quammi_43:

(Start: 4 @34061 has 36 MA's), (5, 34091), (6, 34094), (9, 34139), (10, 34256), (13, 34520), (14, 34544), (15, 34583), (17, 34670), (18, 34712), (19, 34733), (21, 34784), (23, 34847),

Gene: RobinRose_47 Start: 33922, Stop: 34743, Start Num: 4

Candidate Starts for RobinRose_47:

(1, 33859), (3, 33916), (Start: 4 @33922 has 36 MA's), (6, 33955), (10, 34117), (11, 34123), (13, 34375), (15, 34438), (16, 34498), (17, 34525), (19, 34588), (20, 34612), (21, 34639),

Gene: Romm_47 Start: 33922, Stop: 34743, Start Num: 4

Candidate Starts for Romm_47:

(1, 33859), (3, 33916), (Start: 4 @33922 has 36 MA's), (6, 33955), (10, 34117), (11, 34123), (13, 34375), (15, 34438), (16, 34498), (17, 34525), (19, 34588), (20, 34612), (21, 34639),

Gene: Rowlf_41 Start: 34034, Stop: 34855, Start Num: 4

Candidate Starts for Rowlf_41:

(Start: 4 @34034 has 36 MA's), (6, 34067), (9, 34112), (10, 34229), (13, 34493), (14, 34517), (15, 34556), (16, 34616), (17, 34643), (19, 34706), (21, 34757), (23, 34820),

Gene: Rudy_43 Start: 34094, Stop: 34915, Start Num: 4

Candidate Starts for Rudy_43:

(Start: 4 @34094 has 36 MA's), (5, 34124), (6, 34127), (9, 34172), (10, 34289), (13, 34553), (14, 34577), (15, 34616), (17, 34703), (18, 34745), (19, 34766), (21, 34817), (23, 34880),

Gene: SallyK_46 Start: 35043, Stop: 35864, Start Num: 4

Candidate Starts for SallyK_46:

(Start: 4 @35043 has 36 MA's), (5, 35073), (6, 35076), (7, 35079), (9, 35121), (10, 35238), (13, 35502), (14, 35526), (15, 35565), (16, 35625), (17, 35652), (19, 35715), (21, 35766), (23, 35829),

Gene: Sillytadpoles_46 Start: 33934, Stop: 34755, Start Num: 4

Candidate Starts for Sillytadpoles_46:

(Start: 4 @33934 has 36 MA's), (5, 33964), (6, 33967), (9, 34012), (10, 34129), (13, 34393), (14, 34417), (15, 34456), (17, 34543), (18, 34585), (19, 34606), (21, 34657), (23, 34720),

Gene: SlySloth_48 Start: 34731, Stop: 35552, Start Num: 4

Candidate Starts for SlySloth_48:

(Start: 4 @34731 has 36 MA's), (5, 34761), (6, 34764), (7, 34767), (9, 34809), (10, 34926), (13, 35190), (14, 35214), (15, 35253), (16, 35313), (17, 35340), (19, 35403), (21, 35454), (23, 35517),

Gene: Squash_48 Start: 34995, Stop: 35816, Start Num: 4

Candidate Starts for Squash_48:

(Start: 4 @34995 has 36 MA's), (6, 35028), (9, 35073), (10, 35190), (13, 35454), (14, 35478), (15, 35517), (16, 35577), (17, 35604), (19, 35667), (21, 35718), (23, 35781),

Gene: Statler_46 Start: 34849, Stop: 35670, Start Num: 4

Candidate Starts for Statler_46:

(Start: 4 @34849 has 36 MA's), (5, 34879), (6, 34882), (7, 34885), (9, 34927), (13, 35308), (14, 35332), (15, 35371), (16, 35431), (17, 35458), (19, 35521), (20, 35545), (21, 35572), (23, 35635),

Gene: StrawberryJamm_47 Start: 34297, Stop: 35118, Start Num: 4

Candidate Starts for StrawberryJamm_47:

(Start: 4 @34297 has 36 MA's), (5, 34327), (6, 34330), (7, 34333), (9, 34375), (10, 34492), (13, 34756), (14, 34780), (15, 34819), (16, 34879), (17, 34906), (19, 34969), (21, 35020), (23, 35083),

Gene: Teehee_46 Start: 35167, Stop: 35988, Start Num: 4

Candidate Starts for Teehee_46:

(Start: 4 @35167 has 36 MA's), (5, 35197), (6, 35200), (9, 35245), (10, 35362), (13, 35626), (14, 35650), (15, 35689), (17, 35776), (18, 35818), (19, 35839), (21, 35890), (23, 35953),

Gene: Tissue_46 Start: 34672, Stop: 35493, Start Num: 4

Candidate Starts for Tissue_46:

(Start: 4 @34672 has 36 MA's), (6, 34705), (9, 34750), (10, 34867), (13, 35131), (14, 35155), (15, 35194), (16, 35254), (17, 35281), (19, 35344), (21, 35395), (23, 35458),

Gene: Viceroy_44 Start: 34064, Stop: 34885, Start Num: 4

Candidate Starts for Viceroy_44:

(Start: 4 @34064 has 36 MA's), (5, 34094), (6, 34097), (9, 34142), (10, 34259), (13, 34523), (14, 34547), (15, 34586), (17, 34673), (18, 34715), (19, 34736), (21, 34787), (23, 34850),

Gene: Wayne3_47 Start: 34930, Stop: 35751, Start Num: 4

Candidate Starts for Wayne3_47:

(Start: 4 @34930 has 36 MA's), (5, 34960), (6, 34963), (9, 35008), (10, 35125), (13, 35389), (14, 35413), (15, 35452), (17, 35539), (18, 35581), (19, 35602), (21, 35653), (23, 35716),

Gene: WheelerS25_50 Start: 35485, Stop: 36315, Start Num: 2

Candidate Starts for WheelerS25_50:

(2, 35485), (Start: 4 @35494 has 36 MA's), (6, 35527), (9, 35572), (10, 35689), (13, 35953), (14, 35977), (15, 36016), (16, 36076), (17, 36103), (19, 36166), (20, 36190), (21, 36217),

Gene: Wheelie_45 Start: 34251, Stop: 35072, Start Num: 4

Candidate Starts for Wheelie_45:

(Start: 4 @34251 has 36 MA's), (5, 34281), (6, 34284), (9, 34329), (10, 34446), (13, 34710), (14, 34734), (15, 34773), (17, 34860), (18, 34902), (19, 34923), (21, 34974), (23, 35037),

Gene: Zagie_45 Start: 34499, Stop: 35320, Start Num: 4

Candidate Starts for Zagie_45:

(Start: 4 @34499 has 36 MA's), (6, 34532), (8, 34547), (9, 34577), (10, 34694), (13, 34958), (14, 34982), (15, 35021), (16, 35081), (17, 35108), (19, 35171), (21, 35222), (23, 35285),

Gene: Zhafia_48 Start: 34731, Stop: 35552, Start Num: 4

Candidate Starts for Zhafia_48:

(Start: 4 @34731 has 36 MA's), (5, 34761), (6, 34764), (9, 34809), (10, 34926), (13, 35190), (14, 35214), (15, 35253), (17, 35340), (18, 35382), (19, 35403), (21, 35454), (23, 35517),