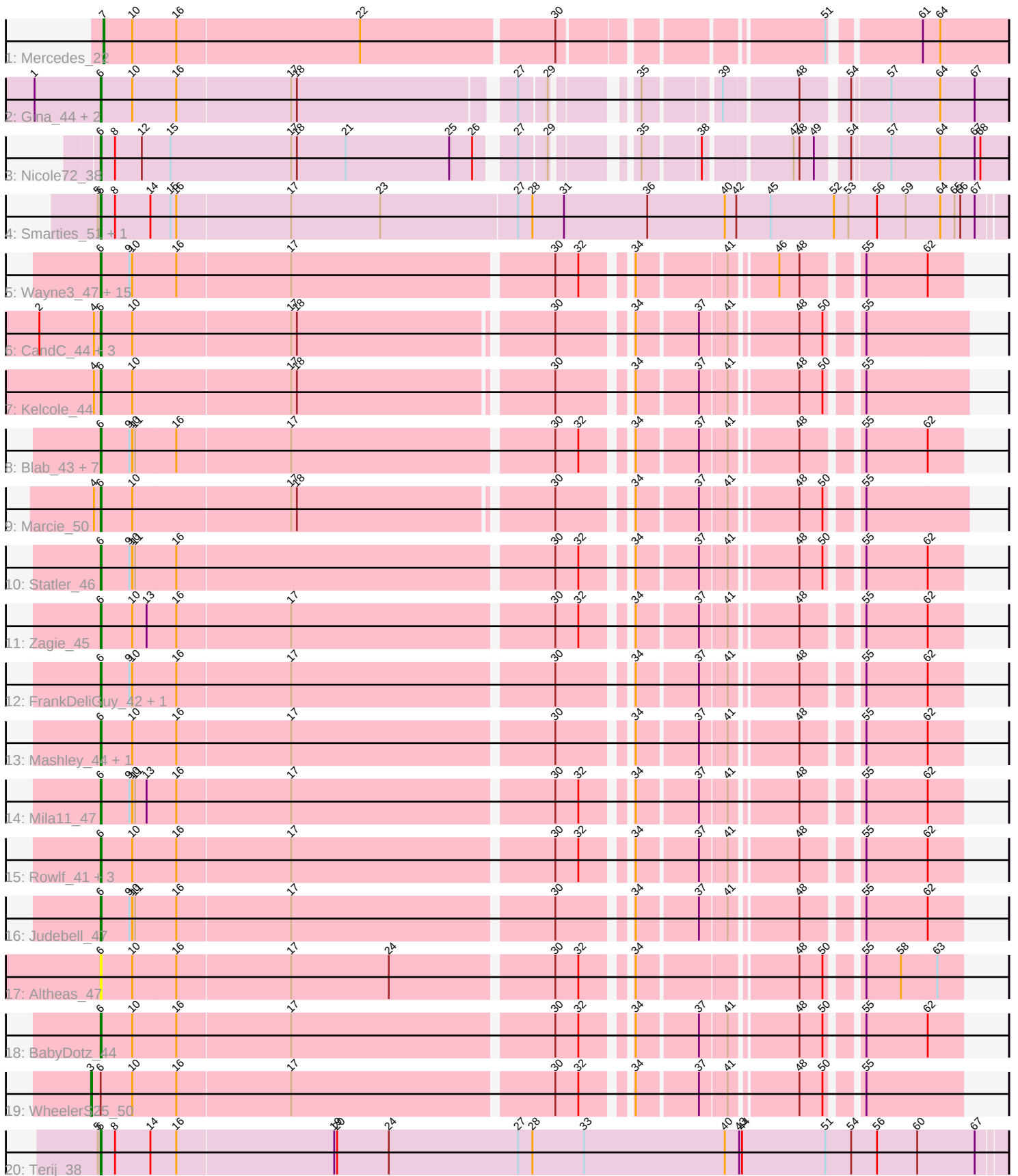


Pham 330930



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 330930 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330930 has 53 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Mercedes_22
- Track 2 : Gina_44, Skugga_41, Teamocil_44
- Track 3 : Nicole72_38
- Track 4 : Smarties_51, Ariadne_51
- Track 5 : Wayne3_47, Casend_46, Jehoshaphat_47, Sillytadpoles_46, Teehee_46, Zhafia_48, Phabia_45, Llemily_45, LilCahh_44, DonaldDuck_45, Quammi_43, Viceroy_44, Rudy_43, Wheelie_45, EverythinBagel_44, Lonelysoil_44
- Track 6 : CandC_44, KillerQueen_45, Romm_47, RobinRose_47
- Track 7 : Kelcole_44
- Track 8 : Blab_43, Kyva_47, StrawberryJamm_47, Grassboy_46, SlySloth_47, Namago_45, Mentos_47, SallyK_46
- Track 9 : Marcie_50
- Track 10 : Statler_46
- Track 11 : Zagie_45
- Track 12 : FrankDeliGuy_42, ZestyBestie_43
- Track 13 : Mashley_44, MorillMayhem_45
- Track 14 : Mila11_47
- Track 15 : Rowlf_41, Nike_46, Tissue_46, Squash_48
- Track 16 : Judebell_47
- Track 17 : Altheas_47
- Track 18 : BabyDotz_44
- Track 19 : WheelerS25_50
- Track 20 : Terij_38

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

The start number called the most often in the published annotations is 6, it was called in 46 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altheas_47, Ariadne_51, BabyDotz_44, Blab_43, CandC_44, Casend_46, DonaldDuck_45, EverythinBagel_44, FrankDeliGuy_42, Gina_44, Grassboy_46, Jehoshaphat_47, Judebell_47, Kelcole_44, KillerQueen_45, Kyva_47, LilCahh_44, Llemily_45, Lonelysoil_44, Marcie_50, Mashley_44, Mentos_47, Mila11_47,

MorillMayhem_45, Namago_45, Nicole72_38, Nike_46, Phabia_45, Quammi_43, RobinRose_47, Romm_47, Rowlf_41, Rudy_43, SallyK_46, Sillytadpoles_46, Skugga_41, SlySloth_47, Smarties_51, Squash_48, Statler_46, StrawberryJamm_47, Teamocil_44, Teehee_46, Terij_38, Tissue_46, Viceroy_44, Wayne3_47, Wheelie_45, Zagie_45, ZestyBestie_43, 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:

- Mercedes_22,

Summary by start number:

Start 3:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WheelerS25_50 (EG),

Start 6:

- Found in 52 of 53 (98.1%) of genes in pham
- Manual Annotations of this start: 46 of 48
- Called 98.1% of time when present
- Phage (with cluster) where this start called: Altheas_47 (EG), Ariadne_51 (EC), BabyDotz_44 (EG), Blab_43 (EG), CandC_44 (EG), Casend_46 (EG), DonaldDuck_45 (EG), EverythinBagel_44 (EG), FrankDeliGuy_42 (EG), Gina_44 (EC), Grassboy_46 (EG), Jehoshaphat_47 (EG), Judebell_47 (EG), Kelcole_44 (EG), KillerQueen_45 (EG), Kyva_47 (EG), LiCahh_44 (EG), Llemily_45 (EG), Lonelysoil_44 (EG), Marcie_50 (EG), Mashley_44 (EG), Mentos_47 (EG), Mila11_47 (EG), MorillMayhem_45 (EG), Namago_45 (EG), Nicole72_38 (EC), 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), Skugga_41 (EC), SlySloth_47 (EG), Smarties_51 (EC), Squash_48 (EG), Statler_46 (EG), StrawberryJamm_47 (EG), Teamocil_44 (EC), Teehee_46 (EG), Terij_38 (EI), Tissue_46 (EG), Viceroy_44 (EG), Wayne3_47 (EG), Wheelie_45 (EG), Zagie_45 (EG), ZestyBestie_43 (EG), Zhafia_48 (EG),

Start 7:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mercedes_22 (EA),

Summary by clusters:

There are 4 clusters represented in this pham: EI, EG, EA, EC,

Info for manual annotations of cluster EA:

- Start number 7 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EC:

- Start number 6 was manually annotated 5 times for cluster EC.

Info for manual annotations of cluster EG:

- Start number 3 was manually annotated 1 time for cluster EG.
- Start number 6 was manually annotated 40 times for cluster EG.

Info for manual annotations of cluster EI:

- Start number 6 was manually annotated 1 time for cluster EI.

Gene Information:

Gene: Altheas_47 Start: 34777, Stop: 35598, Start Num: 6

Candidate Starts for Altheas_47:

(Start: 6 @34777 has 46 MA's), (10, 34810), (16, 34855), (17, 34972), (24, 35074), (30, 35236), (32, 35260), (34, 35299), (48, 35449), (50, 35473), (55, 35500), (58, 35536), (63, 35572),

Gene: Ariadne_51 Start: 31805, Stop: 32737, Start Num: 6

Candidate Starts for Ariadne_51:

(5, 31802), (Start: 6 @31805 has 46 MA's), (8, 31820), (14, 31856), (15, 31877), (16, 31883), (17, 32000), (23, 32093), (27, 32234), (28, 32249), (31, 32282), (36, 32369), (40, 32450), (42, 32462), (45, 32498), (52, 32564), (53, 32579), (56, 32609), (59, 32639), (64, 32675), (65, 32690), (66, 32696), (67, 32711),

Gene: BabyDotz_44 Start: 35141, Stop: 35962, Start Num: 6

Candidate Starts for BabyDotz_44:

(Start: 6 @35141 has 46 MA's), (10, 35174), (16, 35219), (17, 35336), (30, 35600), (32, 35624), (34, 35663), (37, 35723), (41, 35750), (48, 35813), (50, 35837), (55, 35864), (62, 35927),

Gene: Blab_43 Start: 34265, Stop: 35086, Start Num: 6

Candidate Starts for Blab_43:

(Start: 6 @34265 has 46 MA's), (9, 34295), (10, 34298), (11, 34301), (16, 34343), (17, 34460), (30, 34724), (32, 34748), (34, 34787), (37, 34847), (41, 34874), (48, 34937), (55, 34988), (62, 35051),

Gene: CandC_44 Start: 33313, Stop: 34134, Start Num: 6

Candidate Starts for CandC_44:

(2, 33250), (4, 33307), (Start: 6 @33313 has 46 MA's), (10, 33346), (17, 33508), (18, 33514), (30, 33766), (34, 33829), (37, 33889), (41, 33916), (48, 33979), (50, 34003), (55, 34030),

Gene: Casend_46 Start: 34902, Stop: 35723, Start Num: 6

Candidate Starts for Casend_46:

(Start: 6 @34902 has 46 MA's), (9, 34932), (10, 34935), (16, 34980), (17, 35097), (30, 35361), (32, 35385), (34, 35424), (41, 35511), (46, 35553), (48, 35574), (55, 35625), (62, 35688),

Gene: DonaldDuck_45 Start: 34251, Stop: 35072, Start Num: 6

Candidate Starts for DonaldDuck_45:

(Start: 6 @34251 has 46 MA's), (9, 34281), (10, 34284), (16, 34329), (17, 34446), (30, 34710), (32, 34734), (34, 34773), (41, 34860), (46, 34902), (48, 34923), (55, 34974), (62, 35037),

Gene: EverythinBagel_44 Start: 34639, Stop: 35460, Start Num: 6

Candidate Starts for EverythinBagel_44:

(Start: 6 @34639 has 46 MA's), (9, 34669), (10, 34672), (16, 34717), (17, 34834), (30, 35098), (32, 35122), (34, 35161), (41, 35248), (46, 35290), (48, 35311), (55, 35362), (62, 35425),

Gene: FrankDeliGuy_42 Start: 34202, Stop: 35023, Start Num: 6

Candidate Starts for FrankDeliGuy_42:

(Start: 6 @34202 has 46 MA's), (9, 34232), (10, 34235), (16, 34280), (17, 34397), (30, 34661), (34, 34724), (37, 34784), (41, 34811), (48, 34874), (55, 34925), (62, 34988),

Gene: Gina_44 Start: 29692, Stop: 30534, Start Num: 6

Candidate Starts for Gina_44:

(1, 29623), (Start: 6 @29692 has 46 MA's), (10, 29725), (16, 29770), (17, 29887), (18, 29893), (27, 30103), (29, 30130), (35, 30193), (39, 30262), (48, 30334), (54, 30376), (57, 30412), (64, 30463), (67, 30499),

Gene: Grassboy_46 Start: 34864, Stop: 35685, Start Num: 6

Candidate Starts for Grassboy_46:

(Start: 6 @34864 has 46 MA's), (9, 34894), (10, 34897), (11, 34900), (16, 34942), (17, 35059), (30, 35323), (32, 35347), (34, 35386), (37, 35446), (41, 35473), (48, 35536), (55, 35587), (62, 35650),

Gene: Jehoshaphat_47 Start: 35170, Stop: 35991, Start Num: 6

Candidate Starts for Jehoshaphat_47:

(Start: 6 @35170 has 46 MA's), (9, 35200), (10, 35203), (16, 35248), (17, 35365), (30, 35629), (32, 35653), (34, 35692), (41, 35779), (46, 35821), (48, 35842), (55, 35893), (62, 35956),

Gene: Judebell_47 Start: 34667, Stop: 35488, Start Num: 6

Candidate Starts for Judebell_47:

(Start: 6 @34667 has 46 MA's), (9, 34697), (10, 34700), (11, 34703), (16, 34745), (17, 34862), (30, 35126), (34, 35189), (37, 35249), (41, 35276), (48, 35339), (55, 35390), (62, 35453),

Gene: Kelcole_44 Start: 33768, Stop: 34589, Start Num: 6

Candidate Starts for Kelcole_44:

(4, 33762), (Start: 6 @33768 has 46 MA's), (10, 33801), (17, 33963), (18, 33969), (30, 34221), (34, 34284), (37, 34344), (41, 34371), (48, 34434), (50, 34458), (55, 34485),

Gene: KillerQueen_45 Start: 33563, Stop: 34384, Start Num: 6

Candidate Starts for KillerQueen_45:

(2, 33500), (4, 33557), (Start: 6 @33563 has 46 MA's), (10, 33596), (17, 33758), (18, 33764), (30, 34016), (34, 34079), (37, 34139), (41, 34166), (48, 34229), (50, 34253), (55, 34280),

Gene: Kyva_47 Start: 34899, Stop: 35720, Start Num: 6

Candidate Starts for Kyva_47:

(Start: 6 @34899 has 46 MA's), (9, 34929), (10, 34932), (11, 34935), (16, 34977), (17, 35094), (30, 35358), (32, 35382), (34, 35421), (37, 35481), (41, 35508), (48, 35571), (55, 35622), (62, 35685),

Gene: LilCahh_44 Start: 34267, Stop: 35088, Start Num: 6

Candidate Starts for LilCahh_44:

(Start: 6 @34267 has 46 MA's), (9, 34297), (10, 34300), (16, 34345), (17, 34462), (30, 34726), (32, 34750), (34, 34789), (41, 34876), (46, 34918), (48, 34939), (55, 34990), (62, 35053),

Gene: Llemily_45 Start: 33946, Stop: 34767, Start Num: 6

Candidate Starts for Llemily_45:

(Start: 6 @33946 has 46 MA's), (9, 33976), (10, 33979), (16, 34024), (17, 34141), (30, 34405), (32, 34429), (34, 34468), (41, 34555), (46, 34597), (48, 34618), (55, 34669), (62, 34732),

Gene: Lonelysoil_44 Start: 34188, Stop: 35009, Start Num: 6

Candidate Starts for Lonelysoil_44:

(Start: 6 @34188 has 46 MA's), (9, 34218), (10, 34221), (16, 34266), (17, 34383), (30, 34647), (32, 34671), (34, 34710), (41, 34797), (46, 34839), (48, 34860), (55, 34911), (62, 34974),

Gene: Marcie_50 Start: 34414, Stop: 35235, Start Num: 6

Candidate Starts for Marcie_50:

(4, 34408), (Start: 6 @34414 has 46 MA's), (10, 34447), (17, 34609), (18, 34615), (30, 34867), (34, 34930), (37, 34990), (41, 35017), (48, 35080), (50, 35104), (55, 35131),

Gene: Mashley_44 Start: 34586, Stop: 35407, Start Num: 6

Candidate Starts for Mashley_44:

(Start: 6 @34586 has 46 MA's), (10, 34619), (16, 34664), (17, 34781), (30, 35045), (34, 35108), (37, 35168), (41, 35195), (48, 35258), (55, 35309), (62, 35372),

Gene: Mentos_47 Start: 35680, Stop: 36501, Start Num: 6

Candidate Starts for Mentos_47:

(Start: 6 @35680 has 46 MA's), (9, 35710), (10, 35713), (11, 35716), (16, 35758), (17, 35875), (30, 36139), (32, 36163), (34, 36202), (37, 36262), (41, 36289), (48, 36352), (55, 36403), (62, 36466),

Gene: Mercedes_22 Start: 16548, Stop: 17417, Start Num: 7

Candidate Starts for Mercedes_22:

(Start: 7 @16548 has 1 MA's), (10, 16578), (16, 16623), (22, 16812), (30, 17007), (51, 17247), (61, 17328), (64, 17346),

Gene: Mila11_47 Start: 35553, Stop: 36374, Start Num: 6

Candidate Starts for Mila11_47:

(Start: 6 @35553 has 46 MA's), (9, 35583), (10, 35586), (11, 35589), (13, 35601), (16, 35631), (17, 35748), (30, 36012), (32, 36036), (34, 36075), (37, 36135), (41, 36162), (48, 36225), (55, 36276), (62, 36339),

Gene: MorillMayhem_45 Start: 34460, Stop: 35281, Start Num: 6

Candidate Starts for MorillMayhem_45:

(Start: 6 @34460 has 46 MA's), (10, 34493), (16, 34538), (17, 34655), (30, 34919), (34, 34982), (37, 35042), (41, 35069), (48, 35132), (55, 35183), (62, 35246),

Gene: Namago_45 Start: 34029, Stop: 34850, Start Num: 6

Candidate Starts for Namago_45:

(Start: 6 @34029 has 46 MA's), (9, 34059), (10, 34062), (11, 34065), (16, 34107), (17, 34224), (30, 34488), (32, 34512), (34, 34551), (37, 34611), (41, 34638), (48, 34701), (55, 34752), (62, 34815),

Gene: Nicole72_38 Start: 31673, Stop: 32521, Start Num: 6

Candidate Starts for Nicole72_38:

(Start: 6 @31673 has 46 MA's), (8, 31688), (12, 31715), (15, 31745), (17, 31871), (18, 31877), (21, 31928), (25, 32036), (26, 32060), (27, 32090), (29, 32117), (35, 32180), (38, 32234), (47, 32315), (48, 32321), (49, 32336), (54, 32363), (57, 32399), (64, 32450), (67, 32486), (68, 32492),

Gene: Nike_46 Start: 34984, Stop: 35805, Start Num: 6

Candidate Starts for Nike_46:

(Start: 6 @34984 has 46 MA's), (10, 35017), (16, 35062), (17, 35179), (30, 35443), (32, 35467), (34, 35506), (37, 35566), (41, 35593), (48, 35656), (55, 35707), (62, 35770),

Gene: Phabia_45 Start: 34361, Stop: 35182, Start Num: 6

Candidate Starts for Phabia_45:

(Start: 6 @34361 has 46 MA's), (9, 34391), (10, 34394), (16, 34439), (17, 34556), (30, 34820), (32, 34844), (34, 34883), (41, 34970), (46, 35012), (48, 35033), (55, 35084), (62, 35147),

Gene: Quammi_43 Start: 34061, Stop: 34882, Start Num: 6

Candidate Starts for Quammi_43:

(Start: 6 @34061 has 46 MA's), (9, 34091), (10, 34094), (16, 34139), (17, 34256), (30, 34520), (32, 34544), (34, 34583), (41, 34670), (46, 34712), (48, 34733), (55, 34784), (62, 34847),

Gene: RobinRose_47 Start: 33922, Stop: 34743, Start Num: 6

Candidate Starts for RobinRose_47:

(2, 33859), (4, 33916), (Start: 6 @33922 has 46 MA's), (10, 33955), (17, 34117), (18, 34123), (30, 34375), (34, 34438), (37, 34498), (41, 34525), (48, 34588), (50, 34612), (55, 34639),

Gene: Romm_47 Start: 33922, Stop: 34743, Start Num: 6

Candidate Starts for Romm_47:

(2, 33859), (4, 33916), (Start: 6 @33922 has 46 MA's), (10, 33955), (17, 34117), (18, 34123), (30, 34375), (34, 34438), (37, 34498), (41, 34525), (48, 34588), (50, 34612), (55, 34639),

Gene: Rowlf_41 Start: 34034, Stop: 34855, Start Num: 6

Candidate Starts for Rowlf_41:

(Start: 6 @34034 has 46 MA's), (10, 34067), (16, 34112), (17, 34229), (30, 34493), (32, 34517), (34, 34556), (37, 34616), (41, 34643), (48, 34706), (55, 34757), (62, 34820),

Gene: Rudy_43 Start: 34094, Stop: 34915, Start Num: 6

Candidate Starts for Rudy_43:

(Start: 6 @34094 has 46 MA's), (9, 34124), (10, 34127), (16, 34172), (17, 34289), (30, 34553), (32, 34577), (34, 34616), (41, 34703), (46, 34745), (48, 34766), (55, 34817), (62, 34880),

Gene: SallyK_46 Start: 35043, Stop: 35864, Start Num: 6

Candidate Starts for SallyK_46:

(Start: 6 @35043 has 46 MA's), (9, 35073), (10, 35076), (11, 35079), (16, 35121), (17, 35238), (30, 35502), (32, 35526), (34, 35565), (37, 35625), (41, 35652), (48, 35715), (55, 35766), (62, 35829),

Gene: Sillytadpoles_46 Start: 33934, Stop: 34755, Start Num: 6

Candidate Starts for Sillytadpoles_46:

(Start: 6 @33934 has 46 MA's), (9, 33964), (10, 33967), (16, 34012), (17, 34129), (30, 34393), (32, 34417), (34, 34456), (41, 34543), (46, 34585), (48, 34606), (55, 34657), (62, 34720),

Gene: Skugga_41 Start: 29708, Stop: 30550, Start Num: 6

Candidate Starts for Skugga_41:

(1, 29639), (Start: 6 @29708 has 46 MA's), (10, 29741), (16, 29786), (17, 29903), (18, 29909), (27, 30119), (29, 30146), (35, 30209), (39, 30278), (48, 30350), (54, 30392), (57, 30428), (64, 30479), (67, 30515),

Gene: SlySloth_47 Start: 34731, Stop: 35552, Start Num: 6

Candidate Starts for SlySloth_47:

(Start: 6 @34731 has 46 MA's), (9, 34761), (10, 34764), (11, 34767), (16, 34809), (17, 34926), (30, 35190), (32, 35214), (34, 35253), (37, 35313), (41, 35340), (48, 35403), (55, 35454), (62, 35517),

Gene: Smarties_51 Start: 31805, Stop: 32737, Start Num: 6

Candidate Starts for Smarties_51:

(5, 31802), (Start: 6 @31805 has 46 MA's), (8, 31820), (14, 31856), (15, 31877), (16, 31883), (17, 32000), (23, 32093), (27, 32234), (28, 32249), (31, 32282), (36, 32369), (40, 32450), (42, 32462), (45,

32498), (52, 32564), (53, 32579), (56, 32609), (59, 32639), (64, 32675), (65, 32690), (66, 32696), (67, 32711),

Gene: Squash_48 Start: 34995, Stop: 35816, Start Num: 6

Candidate Starts for Squash_48:

(Start: 6 @34995 has 46 MA's), (10, 35028), (16, 35073), (17, 35190), (30, 35454), (32, 35478), (34, 35517), (37, 35577), (41, 35604), (48, 35667), (55, 35718), (62, 35781),

Gene: Statler_46 Start: 34849, Stop: 35670, Start Num: 6

Candidate Starts for Statler_46:

(Start: 6 @34849 has 46 MA's), (9, 34879), (10, 34882), (11, 34885), (16, 34927), (30, 35308), (32, 35332), (34, 35371), (37, 35431), (41, 35458), (48, 35521), (50, 35545), (55, 35572), (62, 35635),

Gene: StrawberryJamm_47 Start: 34297, Stop: 35118, Start Num: 6

Candidate Starts for StrawberryJamm_47:

(Start: 6 @34297 has 46 MA's), (9, 34327), (10, 34330), (11, 34333), (16, 34375), (17, 34492), (30, 34756), (32, 34780), (34, 34819), (37, 34879), (41, 34906), (48, 34969), (55, 35020), (62, 35083),

Gene: Teamocil_44 Start: 29791, Stop: 30633, Start Num: 6

Candidate Starts for Teamocil_44:

(1, 29722), (Start: 6 @29791 has 46 MA's), (10, 29824), (16, 29869), (17, 29986), (18, 29992), (27, 30202), (29, 30229), (35, 30292), (39, 30361), (48, 30433), (54, 30475), (57, 30511), (64, 30562), (67, 30598),

Gene: Teehee_46 Start: 35167, Stop: 35988, Start Num: 6

Candidate Starts for Teehee_46:

(Start: 6 @35167 has 46 MA's), (9, 35197), (10, 35200), (16, 35245), (17, 35362), (30, 35626), (32, 35650), (34, 35689), (41, 35776), (46, 35818), (48, 35839), (55, 35890), (62, 35953),

Gene: Terij_38 Start: 28525, Stop: 29463, Start Num: 6

Candidate Starts for Terij_38:

(5, 28522), (Start: 6 @28525 has 46 MA's), (8, 28540), (14, 28576), (16, 28603), (19, 28765), (20, 28768), (24, 28822), (27, 28957), (28, 28972), (33, 29026), (40, 29173), (43, 29188), (44, 29191), (51, 29278), (54, 29305), (56, 29332), (60, 29374), (67, 29434),

Gene: Tissue_46 Start: 34672, Stop: 35493, Start Num: 6

Candidate Starts for Tissue_46:

(Start: 6 @34672 has 46 MA's), (10, 34705), (16, 34750), (17, 34867), (30, 35131), (32, 35155), (34, 35194), (37, 35254), (41, 35281), (48, 35344), (55, 35395), (62, 35458),

Gene: Viceroy_44 Start: 34064, Stop: 34885, Start Num: 6

Candidate Starts for Viceroy_44:

(Start: 6 @34064 has 46 MA's), (9, 34094), (10, 34097), (16, 34142), (17, 34259), (30, 34523), (32, 34547), (34, 34586), (41, 34673), (46, 34715), (48, 34736), (55, 34787), (62, 34850),

Gene: Wayne3_47 Start: 34930, Stop: 35751, Start Num: 6

Candidate Starts for Wayne3_47:

(Start: 6 @34930 has 46 MA's), (9, 34960), (10, 34963), (16, 35008), (17, 35125), (30, 35389), (32, 35413), (34, 35452), (41, 35539), (46, 35581), (48, 35602), (55, 35653), (62, 35716),

Gene: WheelerS25_50 Start: 35485, Stop: 36315, Start Num: 3

Candidate Starts for WheelerS25_50:

(Start: 3 @35485 has 1 MA's), (Start: 6 @35494 has 46 MA's), (10, 35527), (16, 35572), (17, 35689), (30, 35953), (32, 35977), (34, 36016), (37, 36076), (41, 36103), (48, 36166), (50, 36190), (55, 36217),

Gene: Wheelie_45 Start: 34251, Stop: 35072, Start Num: 6

Candidate Starts for Wheelie_45:

(Start: 6 @34251 has 46 MA's), (9, 34281), (10, 34284), (16, 34329), (17, 34446), (30, 34710), (32, 34734), (34, 34773), (41, 34860), (46, 34902), (48, 34923), (55, 34974), (62, 35037),

Gene: Zagie_45 Start: 34499, Stop: 35320, Start Num: 6

Candidate Starts for Zagie_45:

(Start: 6 @34499 has 46 MA's), (10, 34532), (13, 34547), (16, 34577), (17, 34694), (30, 34958), (32, 34982), (34, 35021), (37, 35081), (41, 35108), (48, 35171), (55, 35222), (62, 35285),

Gene: ZestyBestie_43 Start: 34197, Stop: 35018, Start Num: 6

Candidate Starts for ZestyBestie_43:

(Start: 6 @34197 has 46 MA's), (9, 34227), (10, 34230), (16, 34275), (17, 34392), (30, 34656), (34, 34719), (37, 34779), (41, 34806), (48, 34869), (55, 34920), (62, 34983),

Gene: Zhafia_48 Start: 34731, Stop: 35552, Start Num: 6

Candidate Starts for Zhafia_48:

(Start: 6 @34731 has 46 MA's), (9, 34761), (10, 34764), (16, 34809), (17, 34926), (30, 35190), (32, 35214), (34, 35253), (41, 35340), (46, 35382), (48, 35403), (55, 35454), (62, 35517),