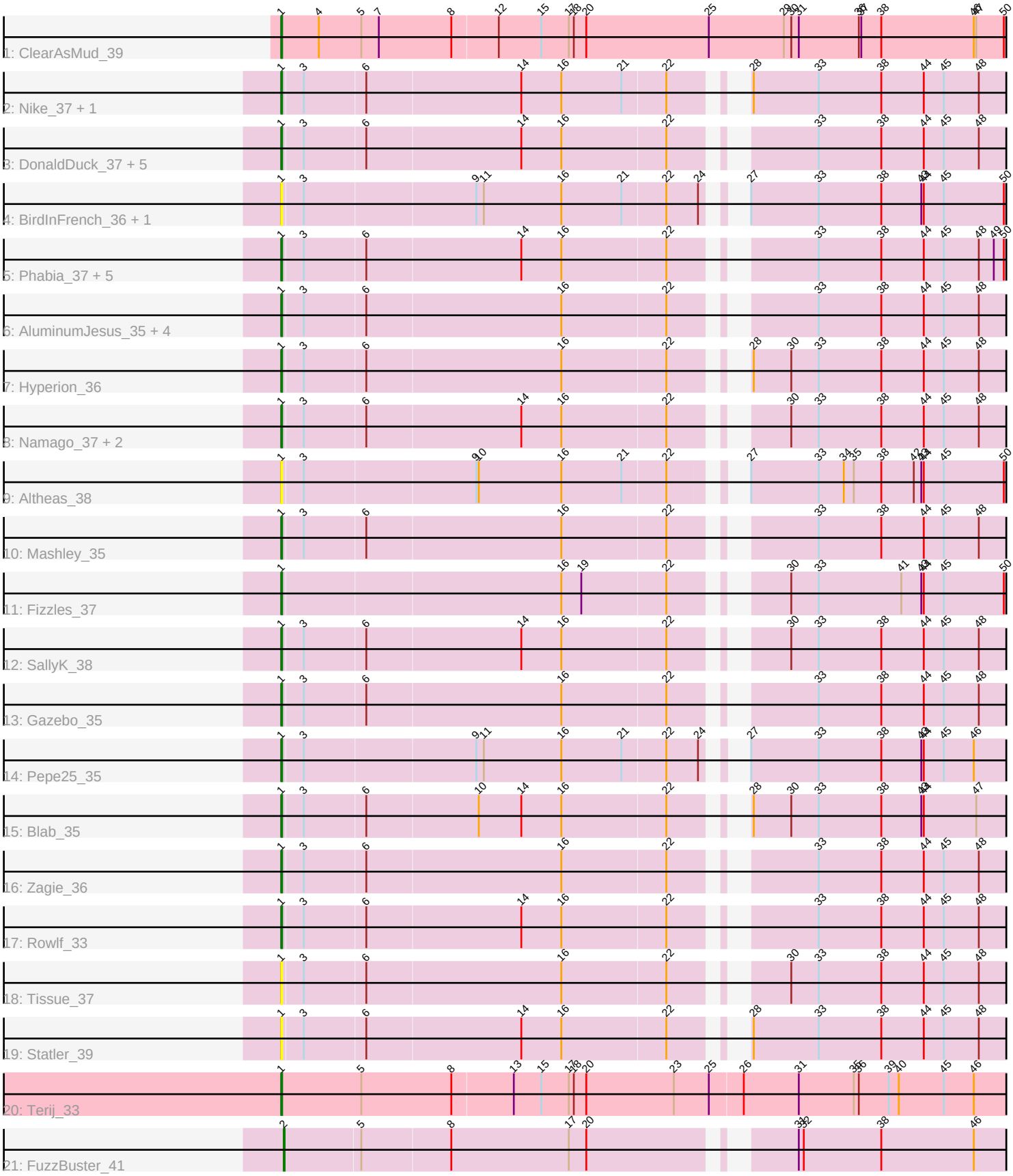
Zoomed Pham 171612



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 171612 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171612 has 39 members, 10 are drafts.

Phages represented in each track:
• Track 1 : ClearAsMud_39
• Track 2 : Nike_37, Squash_39
• Track 3 : DonaldDuck_37, Zhafia_40, Wheelie_36, Sillytadpoles_38, Jehoshaphat_39, Llemily_37
• Track 4 : BirdInFrench_36, Wilca_36
• Track 5 : Phabia_37, Casend_38, Lonelysoil_36, Wayne3_38, Judebell_39, Teehee_38
• Track 6 : AluminumJesus_35, Quammi_35, Viceroy_35, Rudy_35, StrawberryJamm_39
• Track 7 : Hyperion_36
• Track 8 : Namago_37, Kyva_39, Grassboy_38
• Track 9 : Altheas_38
• Track 10 : Mashley_35
• Track 11 : Fizzles_37
• Track 12 : SallyK_38
• Track 13 : Gazebo_35
• Track 14 : Pepe25_35
• Track 15 : Blab_35
• Track 16 : Zagie_36
• Track 17 : Rowlf_33
• Track 18 : Tissue_37
• Track 19 : Statler_39
• Track 20 : Terij_33
• Track 21 : FuzzBuster_41

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

The start number called the most often in the published annotations is 1, it was called in 28 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_38, AluminumJesus_35, BirdInFrench_36, Blab_35, Casend_38, ClearAsMud_39, DonaldDuck_37, Fizzles_37, Gazebo_35, Grassboy_38, Hyperion_36, Jehoshaphat_39, Judebell_39, Kyva_39, Llemily_37, Lonelysoil_36,

Mashley_35, Namago_37, Nike_37, Pepe25_35, Phabia_37, Quammi_35, Rowlf_33, Rudy_35, SallyK_38, Sillytadpoles_38, Squash_39, Statler_39, StrawberryJamm_39, Teehee_38, Terij_33, Tissue_37, Viceroy_35, Wayne3_38, Wheelie_36, Wilca_36, Zagie_36, Zhafia_40,

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

Genes that do not have the "Most Annotated" start:
• FuzzBuster_41,

Summary by start number:

Start 1:
• Found in 38 of 39 (97.4%) of genes in pham
• Manual Annotations of this start: 28 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_38 (EG), AluminumJesus_35 (EG), BirdInFrench_36 (EG), Blab_35 (EG), Casend_38 (EG), ClearAsMud_39 (EC), DonaldDuck_37 (EG), Fizzles_37 (EG), Gazebo_35 (EG), Grassboy_38 (EG), Hyperion_36 (EG), Jehoshaphat_39 (EG), Judebell_39 (EG), Kyva_39 (EG), Llemily_37 (EG), Lonelysoil_36 (EG), Mashley_35 (EG), Namago_37 (EG), Nike_37 (EG), Pepe25_35 (EG), Phabia_37 (EG), Quammi_35 (EG), Rowlf_33 (EG), Rudy_35 (EG), SallyK_38 (EG), Sillytadpoles_38 (EG), Squash_39 (EG), Statler_39 (EG), StrawberryJamm_39 (EG), Teehee_38 (EG), Terij_33 (EI), Tissue_37 (EG), Viceroy_35 (EG), Wayne3_38 (EG), Wheelie_36 (EG), Wilca_36 (EG), Zagie_36 (EG), Zhafia_40 (EG),

Start 2:
• Found in 1 of 39 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FuzzBuster_41 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster EC:
•Start number 1 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EG:
•Start number 1 was manually annotated 26 times for cluster EG.

Info for manual annotations of cluster EI:
•Start number 1 was manually annotated 1 time for cluster EI.

Gene Information:

Gene: Altheas_38 Start: 26739, Stop: 28082, Start Num: 1
Candidate Starts for Altheas_38:

(Start: 1 @26739 has 28 MA's), (3, 26763), (9, 26964), (10, 26967), (16, 27066), (21, 27138), (22, 27189), (27, 27240), (33, 27321), (34, 27351), (35, 27363), (38, 27396), (42, 27435), (43, 27444), (44, 27447), (45, 27471), (50, 27543), (54, 27585), (58, 27645), (61, 27711), (74, 27843), (77, 27891), (78, 27900), (82, 27954), (88, 28068),

Gene: AluminumJesus_35 Start: 26345, Stop: 27685, Start Num: 1
Candidate Starts for AluminumJesus_35:
(Start: 1 @26345 has 28 MA's), (3, 26369), (6, 26441), (16, 26672), (22, 26795), (33, 26927), (38, 27002), (44, 27053), (45, 27077), (48, 27119), (66, 27383), (69, 27401), (73, 27431), (83, 27578), (84, 27584), (88, 27671),

Gene: BirdInFrench_36 Start: 24913, Stop: 26256, Start Num: 1
Candidate Starts for BirdInFrench_36:
(Start: 1 @24913 has 28 MA's), (3, 24937), (9, 25138), (11, 25147), (16, 25240), (21, 25312), (22, 25363), (24, 25399), (27, 25414), (33, 25495), (38, 25570), (43, 25618), (44, 25621), (45, 25645), (50, 25717), (54, 25759), (58, 25819), (61, 25885), (74, 26017), (77, 26065), (78, 26074), (82, 26128), (88, 26242),

Gene: Blab_35 Start: 26270, Stop: 27604, Start Num: 1
Candidate Starts for Blab_35:
(Start: 1 @26270 has 28 MA's), (3, 26294), (6, 26366), (10, 26498), (14, 26549), (16, 26597), (22, 26720), (28, 26774), (30, 26819), (33, 26852), (38, 26927), (43, 26975), (44, 26978), (47, 27041), (58, 27176), (66, 27305), (74, 27362), (76, 27410), (84, 27503), (85, 27512), (88, 27590),

Gene: Casend_38 Start: 26891, Stop: 28231, Start Num: 1
Candidate Starts for Casend_38:
(Start: 1 @26891 has 28 MA's), (3, 26915), (6, 26987), (14, 27170), (16, 27218), (22, 27341), (33, 27473), (38, 27548), (44, 27599), (45, 27623), (48, 27665), (49, 27683), (50, 27695), (66, 27929), (69, 27947), (72, 27974), (73, 27977), (83, 28124), (84, 28130), (86, 28148), (88, 28217),

Gene: ClearAsMud_39 Start: 24222, Stop: 25577, Start Num: 1
Candidate Starts for ClearAsMud_39:
(Start: 1 @24222 has 28 MA's), (4, 24267), (5, 24318), (7, 24339), (8, 24426), (12, 24480), (15, 24531), (17, 24564), (18, 24570), (20, 24585), (25, 24732), (29, 24822), (30, 24831), (31, 24840), (36, 24912), (37, 24915), (38, 24939), (46, 25050), (47, 25053), (50, 25086), (53, 25116), (60, 25239), (68, 25323), (81, 25449), (83, 25485), (84, 25491), (89, 25569),

Gene: DonaldDuck_37 Start: 26237, Stop: 27580, Start Num: 1
Candidate Starts for DonaldDuck_37:
(Start: 1 @26237 has 28 MA's), (3, 26261), (6, 26333), (14, 26516), (16, 26564), (22, 26687), (33, 26819), (38, 26894), (44, 26945), (45, 26969), (48, 27011), (51, 27047), (65, 27251), (69, 27293), (82, 27452), (83, 27473), (86, 27497), (88, 27566),

Gene: Fizzles_37 Start: 25850, Stop: 27190, Start Num: 1
Candidate Starts for Fizzles_37:
(Start: 1 @25850 has 28 MA's), (16, 26177), (19, 26201), (22, 26300), (30, 26399), (33, 26432), (41, 26531), (43, 26555), (44, 26558), (45, 26582), (50, 26654), (58, 26756), (59, 26807), (62, 26828), (67, 26900), (74, 26951), (77, 26999), (82, 27062), (83, 27083), (85, 27098), (88, 27176),

Gene: FuzzBuster_41 Start: 23513, Stop: 24814, Start Num: 2
Candidate Starts for FuzzBuster_41:
(Start: 2 @23513 has 1 MA's), (5, 23603), (8, 23708), (17, 23849), (20, 23870), (31, 24074), (32, 24080), (38, 24173), (46, 24284), (54, 24362), (55, 24380), (57, 24398), (63, 24497), (70, 24563), (71,

24578), (75, 24632), (81, 24686), (84, 24728), (87, 24770), (89, 24806),

Gene: Gazebo_35 Start: 26808, Stop: 28148, Start Num: 1
Candidate Starts for Gazebo_35:
(Start: 1 @26808 has 28 MA's), (3, 26832), (6, 26904), (16, 27135), (22, 27258), (33, 27390), (38, 27465), (44, 27516), (45, 27540), (48, 27582), (66, 27846), (69, 27864), (72, 27891), (73, 27894), (83, 28041), (84, 28047), (88, 28134),

Gene: Grassboy_38 Start: 26866, Stop: 28209, Start Num: 1
Candidate Starts for Grassboy_38:
(Start: 1 @26866 has 28 MA's), (3, 26890), (6, 26962), (14, 27145), (16, 27193), (22, 27316), (30, 27415), (33, 27448), (38, 27523), (44, 27574), (45, 27598), (48, 27640), (67, 27919), (72, 27952), (73, 27955), (77, 28018), (88, 28195),

Gene: Hyperion_36 Start: 26764, Stop: 28104, Start Num: 1
Candidate Starts for Hyperion_36:
(Start: 1 @26764 has 28 MA's), (3, 26788), (6, 26860), (16, 27091), (22, 27214), (28, 27268), (30, 27313), (33, 27346), (38, 27421), (44, 27472), (45, 27496), (48, 27538), (66, 27802), (69, 27820), (73, 27850), (83, 27997), (84, 28003), (88, 28090),

Gene: Jehoshaphat_39 Start: 27156, Stop: 28499, Start Num: 1
Candidate Starts for Jehoshaphat_39:
(Start: 1 @27156 has 28 MA's), (3, 27180), (6, 27252), (14, 27435), (16, 27483), (22, 27606), (33, 27738), (38, 27813), (44, 27864), (45, 27888), (48, 27930), (51, 27966), (65, 28170), (69, 28212), (82, 28371), (83, 28392), (86, 28416), (88, 28485),

Gene: Judebell_39 Start: 26662, Stop: 28002, Start Num: 1
Candidate Starts for Judebell_39:
(Start: 1 @26662 has 28 MA's), (3, 26686), (6, 26758), (14, 26941), (16, 26989), (22, 27112), (33, 27244), (38, 27319), (44, 27370), (45, 27394), (48, 27436), (49, 27454), (50, 27466), (66, 27700), (69, 27718), (72, 27745), (73, 27748), (83, 27895), (84, 27901), (86, 27919), (88, 27988),

Gene: Kyva_39 Start: 26901, Stop: 28244, Start Num: 1
Candidate Starts for Kyva_39:
(Start: 1 @26901 has 28 MA's), (3, 26925), (6, 26997), (14, 27180), (16, 27228), (22, 27351), (30, 27450), (33, 27483), (38, 27558), (44, 27609), (45, 27633), (48, 27675), (67, 27954), (72, 27987), (73, 27990), (77, 28053), (88, 28230),

Gene: Llemily_37 Start: 25932, Stop: 27275, Start Num: 1
Candidate Starts for Llemily_37:
(Start: 1 @25932 has 28 MA's), (3, 25956), (6, 26028), (14, 26211), (16, 26259), (22, 26382), (33, 26514), (38, 26589), (44, 26640), (45, 26664), (48, 26706), (51, 26742), (65, 26946), (69, 26988), (82, 27147), (83, 27168), (86, 27192), (88, 27261),

Gene: Lonelysoil_36 Start: 26177, Stop: 27517, Start Num: 1
Candidate Starts for Lonelysoil_36:
(Start: 1 @26177 has 28 MA's), (3, 26201), (6, 26273), (14, 26456), (16, 26504), (22, 26627), (33, 26759), (38, 26834), (44, 26885), (45, 26909), (48, 26951), (49, 26969), (50, 26981), (66, 27215), (69, 27233), (72, 27260), (73, 27263), (83, 27410), (84, 27416), (86, 27434), (88, 27503),

Gene: Mashley_35 Start: 26580, Stop: 27920, Start Num: 1
Candidate Starts for Mashley_35:

(Start: 1 @26580 has 28 MA's), (3, 26604), (6, 26676), (16, 26907), (22, 27030), (33, 27162), (38, 27237), (44, 27288), (45, 27312), (48, 27354), (66, 27618), (69, 27636), (72, 27663), (73, 27666), (83, 27813), (84, 27819), (86, 27837), (88, 27906),

Gene: Namago_37 Start: 26031, Stop: 27374, Start Num: 1
Candidate Starts for Namago_37:
(Start: 1 @26031 has 28 MA's), (3, 26055), (6, 26127), (14, 26310), (16, 26358), (22, 26481), (30, 26580), (33, 26613), (38, 26688), (44, 26739), (45, 26763), (48, 26805), (67, 27084), (72, 27117), (73, 27120), (77, 27183), (88, 27360),

Gene: Nike_37 Start: 26983, Stop: 28329, Start Num: 1
Candidate Starts for Nike_37:
(Start: 1 @26983 has 28 MA's), (3, 27007), (6, 27079), (14, 27262), (16, 27310), (21, 27382), (22, 27433), (28, 27487), (33, 27565), (38, 27640), (44, 27691), (45, 27715), (48, 27757), (56, 27856), (58, 27889), (66, 28024), (81, 28186), (88, 28315),

Gene: Pepe25_35 Start: 24930, Stop: 26273, Start Num: 1
Candidate Starts for Pepe25_35:
(Start: 1 @24930 has 28 MA's), (3, 24954), (9, 25155), (11, 25164), (16, 25257), (21, 25329), (22, 25380), (24, 25416), (27, 25431), (33, 25512), (38, 25587), (43, 25635), (44, 25638), (45, 25662), (46, 25698), (61, 25902), (74, 26034), (88, 26259),

Gene: Phabia_37 Start: 26350, Stop: 27690, Start Num: 1
Candidate Starts for Phabia_37:
(Start: 1 @26350 has 28 MA's), (3, 26374), (6, 26446), (14, 26629), (16, 26677), (22, 26800), (33, 26932), (38, 27007), (44, 27058), (45, 27082), (48, 27124), (49, 27142), (50, 27154), (66, 27388), (69, 27406), (72, 27433), (73, 27436), (83, 27583), (84, 27589), (86, 27607), (88, 27676),

Gene: Quammi_35 Start: 26053, Stop: 27393, Start Num: 1
Candidate Starts for Quammi_35:
(Start: 1 @26053 has 28 MA's), (3, 26077), (6, 26149), (16, 26380), (22, 26503), (33, 26635), (38, 26710), (44, 26761), (45, 26785), (48, 26827), (66, 27091), (69, 27109), (73, 27139), (83, 27286), (84, 27292), (88, 27379),

Gene: Rowlf_33 Start: 26228, Stop: 27568, Start Num: 1
Candidate Starts for Rowlf_33:
(Start: 1 @26228 has 28 MA's), (3, 26252), (6, 26324), (14, 26507), (16, 26555), (22, 26678), (33, 26810), (38, 26885), (44, 26936), (45, 26960), (48, 27002), (66, 27266), (69, 27284), (73, 27314), (83, 27461), (84, 27467), (88, 27554),

Gene: Rudy_35 Start: 26086, Stop: 27426, Start Num: 1
Candidate Starts for Rudy_35:
(Start: 1 @26086 has 28 MA's), (3, 26110), (6, 26182), (16, 26413), (22, 26536), (33, 26668), (38, 26743), (44, 26794), (45, 26818), (48, 26860), (66, 27124), (69, 27142), (73, 27172), (83, 27319), (84, 27325), (88, 27412),

Gene: SallyK_38 Start: 27030, Stop: 28373, Start Num: 1
Candidate Starts for SallyK_38:
(Start: 1 @27030 has 28 MA's), (3, 27054), (6, 27126), (14, 27309), (16, 27357), (22, 27480), (30, 27579), (33, 27612), (38, 27687), (44, 27738), (45, 27762), (48, 27804), (51, 27840), (65, 28044), (69, 28086), (82, 28245), (83, 28266), (86, 28290), (88, 28359),

Gene: Sillytadpoles_38 Start: 25920, Stop: 27263, Start Num: 1

Candidate Starts for Sillytadpoles_38:
(Start: 1 @25920 has 28 MA's), (3, 25944), (6, 26016), (14, 26199), (16, 26247), (22, 26370), (33, 26502), (38, 26577), (44, 26628), (45, 26652), (48, 26694), (51, 26730), (65, 26934), (69, 26976), (82, 27135), (83, 27156), (86, 27180), (88, 27249),

Gene: Squash_39 Start: 26994, Stop: 28340, Start Num: 1
Candidate Starts for Squash_39:
(Start: 1 @26994 has 28 MA's), (3, 27018), (6, 27090), (14, 27273), (16, 27321), (21, 27393), (22, 27444), (28, 27498), (33, 27576), (38, 27651), (44, 27702), (45, 27726), (48, 27768), (56, 27867), (58, 27900), (66, 28035), (81, 28197), (88, 28326),

Gene: Statler_39 Start: 26839, Stop: 28179, Start Num: 1
Candidate Starts for Statler_39:
(Start: 1 @26839 has 28 MA's), (3, 26863), (6, 26935), (14, 27118), (16, 27166), (22, 27289), (28, 27343), (33, 27421), (38, 27496), (44, 27547), (45, 27571), (48, 27613), (66, 27877), (69, 27895), (72, 27922), (73, 27925), (83, 28072), (84, 28078), (86, 28096), (88, 28165),

Gene: StrawberryJamm_39 Start: 26290, Stop: 27630, Start Num: 1
Candidate Starts for StrawberryJamm_39:
(Start: 1 @26290 has 28 MA's), (3, 26314), (6, 26386), (16, 26617), (22, 26740), (33, 26872), (38, 26947), (44, 26998), (45, 27022), (48, 27064), (66, 27328), (69, 27346), (73, 27376), (83, 27523), (84, 27529), (88, 27616),

Gene: Teehee_38 Start: 27156, Stop: 28496, Start Num: 1
Candidate Starts for Teehee_38:
(Start: 1 @27156 has 28 MA's), (3, 27180), (6, 27252), (14, 27435), (16, 27483), (22, 27606), (33, 27738), (38, 27813), (44, 27864), (45, 27888), (48, 27930), (49, 27948), (50, 27960), (66, 28194), (69, 28212), (72, 28239), (73, 28242), (83, 28389), (84, 28395), (86, 28413), (88, 28482),

Gene: Terij_33 Start: 22891, Stop: 24228, Start Num: 1
Candidate Starts for Terij_33:
(Start: 1 @22891 has 28 MA's), (5, 22987), (8, 23095), (13, 23167), (15, 23200), (17, 23233), (18, 23239), (20, 23254), (23, 23359), (25, 23398), (26, 23437), (31, 23503), (35, 23569), (36, 23575), (39, 23611), (40, 23623), (45, 23677), (46, 23713), (52, 23776), (58, 23842), (66, 23959), (71, 23995), (79, 24073), (80, 24079), (83, 24136), (86, 24160), (88, 24214), (89, 24220),

Gene: Tissue_37 Start: 26673, Stop: 28016, Start Num: 1
Candidate Starts for Tissue_37:
(Start: 1 @26673 has 28 MA's), (3, 26697), (6, 26769), (16, 27000), (22, 27123), (30, 27222), (33, 27255), (38, 27330), (44, 27381), (45, 27405), (48, 27447), (67, 27726), (72, 27759), (73, 27762), (77, 27825), (88, 28002),

Gene: Viceroy_35 Start: 26053, Stop: 27393, Start Num: 1
Candidate Starts for Viceroy_35:
(Start: 1 @26053 has 28 MA's), (3, 26077), (6, 26149), (16, 26380), (22, 26503), (33, 26635), (38, 26710), (44, 26761), (45, 26785), (48, 26827), (66, 27091), (69, 27109), (73, 27139), (83, 27286), (84, 27292), (88, 27379),

Gene: Wayne3_38 Start: 26919, Stop: 28259, Start Num: 1
Candidate Starts for Wayne3_38:
(Start: 1 @26919 has 28 MA's), (3, 26943), (6, 27015), (14, 27198), (16, 27246), (22, 27369), (33, 27501), (38, 27576), (44, 27627), (45, 27651), (48, 27693), (49, 27711), (50, 27723), (66, 27957), (69, 27975), (72, 28002), (73, 28005), (83, 28152), (84, 28158), (86, 28176), (88, 28245),

Gene: Wheelie_36 Start: 26237, Stop: 27580, Start Num: 1
Candidate Starts for Wheelie_36:
(Start: 1 @26237 has 28 MA's), (3, 26261), (6, 26333), (14, 26516), (16, 26564), (22, 26687), (33, 26819), (38, 26894), (44, 26945), (45, 26969), (48, 27011), (51, 27047), (65, 27251), (69, 27293), (82, 27452), (83, 27473), (86, 27497), (88, 27566),

Gene: Wilca_36 Start: 24913, Stop: 26256, Start Num: 1
Candidate Starts for Wilca_36:
(Start: 1 @24913 has 28 MA's), (3, 24937), (9, 25138), (11, 25147), (16, 25240), (21, 25312), (22, 25363), (24, 25399), (27, 25414), (33, 25495), (38, 25570), (43, 25618), (44, 25621), (45, 25645), (50, 25717), (54, 25759), (58, 25819), (61, 25885), (74, 26017), (77, 26065), (78, 26074), (82, 26128), (88, 26242),

Gene: Zagie_36 Start: 26491, Stop: 27831, Start Num: 1
Candidate Starts for Zagie_36:
(Start: 1 @26491 has 28 MA's), (3, 26515), (6, 26587), (16, 26818), (22, 26941), (33, 27073), (38, 27148), (44, 27199), (45, 27223), (48, 27265), (64, 27499), (66, 27529), (69, 27547), (72, 27574), (73, 27577), (83, 27724), (84, 27730), (86, 27748), (88, 27817),

Gene: Zhafia_40 Start: 26715, Stop: 28058, Start Num: 1
Candidate Starts for Zhafia_40:
(Start: 1 @26715 has 28 MA's), (3, 26739), (6, 26811), (14, 26994), (16, 27042), (22, 27165), (33, 27297), (38, 27372), (44, 27423), (45, 27447), (48, 27489), (51, 27525), (65, 27729), (69, 27771), (82, 27930), (83, 27951), (86, 27975), (88, 28044),