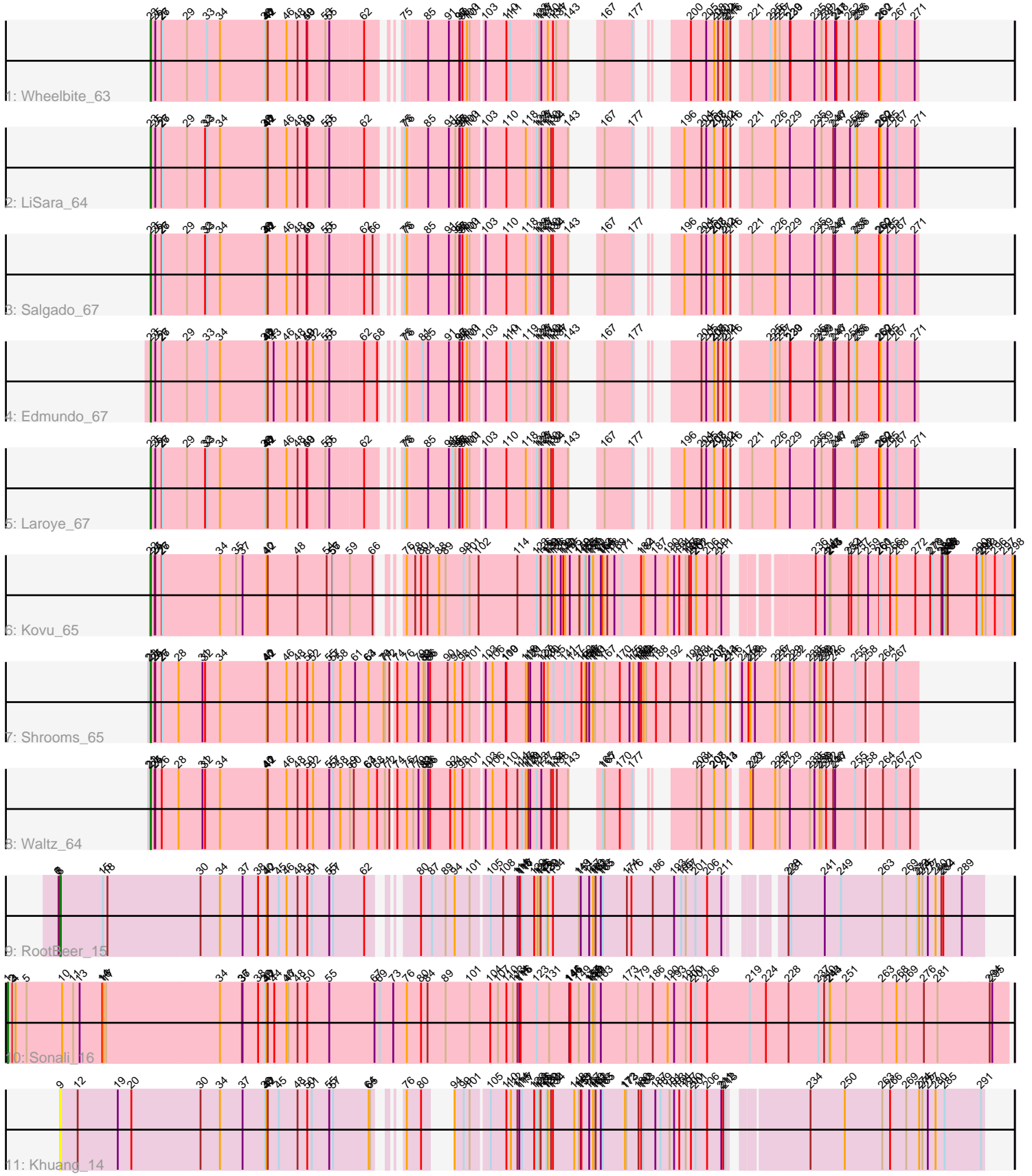


Pham 195878



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 195878 Report

This analysis was run 12/09/24 on database version 580.

Pham number 195878 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Wheelbite_63
- Track 2 : LiSara_64
- Track 3 : Salgado_67
- Track 4 : Edmundo_67
- Track 5 : Laroye_67
- Track 6 : Kovu_65
- Track 7 : Shrooms_65
- Track 8 : Waltz_64
- Track 9 : RootBeer_15
- Track 10 : Sonali_16
- Track 11 : Khuang_14

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

The start number called the most often in the published annotations is 23, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Edmundo_67, Laroye_67, LiSara_64, Salgado_67, Shrooms_65, Waltz_64, Wheelbite_63,

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

-

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

- Khuang_14, Kovu_65, RootBeer_15, Sonali_16,

Summary by start number:

Start 1:

- Found in 1 of 11 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sonali_16 (FG),

Start 8:

- Found in 1 of 11 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RootBeer_15 (FA),

Start 9:

- Found in 1 of 11 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Khuang_14 (UNK),

Start 22:

- Found in 1 of 11 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kovu_65 (AL),

Start 23:

- Found in 7 of 11 (63.6%) of genes in pham
- Manual Annotations of this start: 7 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Edmundo_67 (AL), Laroye_67 (AL), LiSara_64 (AL), Salgado_67 (AL), Shrooms_65 (AL), Waltz_64 (AL), Wheelbite_63 (AL),

Summary by clusters:

There are 4 clusters represented in this pham: FA, UNK, AL, FG,

Info for manual annotations of cluster AL:

- Start number 22 was manually annotated 1 time for cluster AL.
- Start number 23 was manually annotated 7 times for cluster AL.

Info for manual annotations of cluster FA:

- Start number 8 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FG:

- Start number 1 was manually annotated 1 time for cluster FG.

Gene Information:

Gene: Edmundo_67 Start: 37140, Stop: 40157, Start Num: 23

Candidate Starts for Edmundo_67:

(Start: 23 @37140 has 7 MA's), (25, 37161), (26, 37191), (27, 37194), (29, 37299), (33, 37392), (34, 37452), (39, 37662), (40, 37668), (41, 37671), (42, 37674), (43, 37701), (46, 37761), (48, 37812), (49, 37854), (50, 37857), (52, 37884), (53, 37941), (55, 37959), (62, 38109), (68, 38169), (75, 38202), (76, 38211), (81, 38277), (85, 38301), (91, 38397), (96, 38445), (97, 38448), (98, 38460), (100, 38481), (101, 38493), (103, 38544), (110, 38637), (111, 38652), (119, 38727), (123, 38760), (125, 38772),

(127, 38781), (130, 38811), (132, 38826), (134, 38835), (137, 38850), (143, 38904), (167, 38943), (177, 39069), (204, 39219), (205, 39240), (207, 39273), (208, 39276), (210, 39294), (212, 39318), (214, 39330), (216, 39351), (225, 39486), (226, 39507), (227, 39528), (229, 39570), (230, 39573), (235, 39681), (238, 39705), (239, 39714), (246, 39768), (247, 39777), (252, 39840), (255, 39870), (256, 39879), (260, 39978), (262, 39984), (265, 40014), (267, 40053), (271, 40140),

Gene: Khuang_14 Start: 9117, Stop: 13016, Start Num: 9

Candidate Starts for Khuang_14:

(9, 9117), (12, 9195), (19, 9378), (20, 9438), (30, 9750), (34, 9840), (37, 9945), (39, 10050), (40, 10056), (42, 10062), (45, 10113), (48, 10200), (50, 10245), (51, 10266), (55, 10347), (57, 10365), (64, 10530), (65, 10536), (76, 10590), (80, 10650), (94, 10692), (99, 10734), (101, 10761), (105, 10839), (110, 10911), (112, 10932), (114, 10962), (115, 10971), (117, 10983), (122, 11040), (123, 11052), (125, 11064), (126, 11070), (129, 11097), (130, 11103), (132, 11118), (134, 11127), (148, 11226), (149, 11247), (151, 11256), (152, 11259), (157, 11295), (160, 11313), (161, 11322), (162, 11325), (163, 11349), (165, 11358), (172, 11460), (173, 11466), (180, 11523), (182, 11535), (183, 11544), (187, 11601), (189, 11625), (191, 11667), (193, 11688), (194, 11712), (197, 11742), (200, 11766), (201, 11787), (206, 11841), (211, 11907), (212, 11916), (213, 11925), (234, 12234), (250, 12393), (263, 12567), (266, 12603), (269, 12678), (274, 12738), (275, 12753), (277, 12774), (280, 12807), (285, 12843), (291, 13002),

Gene: Kovu_65 Start: 36350, Stop: 40081, Start Num: 22

Candidate Starts for Kovu_65:

(Start: 22 @36350 has 1 MA's), (24, 36365), (25, 36368), (26, 36398), (27, 36401), (34, 36659), (35, 36734), (37, 36764), (40, 36875), (42, 36881), (48, 37019), (54, 37154), (56, 37181), (57, 37184), (59, 37262), (66, 37367), (76, 37412), (78, 37445), (80, 37472), (84, 37502), (88, 37556), (89, 37583), (99, 37667), (101, 37694), (102, 37736), (114, 37916), (123, 38006), (126, 38024), (129, 38051), (130, 38057), (131, 38063), (133, 38075), (136, 38090), (139, 38117), (140, 38129), (142, 38138), (145, 38159), (149, 38201), (150, 38204), (153, 38228), (155, 38234), (157, 38249), (159, 38258), (160, 38267), (163, 38303), (164, 38309), (166, 38315), (168, 38333), (169, 38366), (171, 38399), (182, 38489), (184, 38501), (187, 38555), (190, 38612), (193, 38642), (194, 38666), (197, 38696), (198, 38711), (200, 38720), (201, 38741), (202, 38744), (206, 38795), (209, 38837), (211, 38861), (236, 39167), (241, 39209), (243, 39230), (244, 39233), (245, 39236), (252, 39320), (254, 39332), (257, 39365), (259, 39410), (260, 39461), (261, 39464), (266, 39512), (268, 39542), (272, 39629), (278, 39695), (279, 39704), (282, 39743), (283, 39749), (285, 39758), (286, 39764), (287, 39770), (288, 39773), (290, 39905), (291, 39926), (292, 39932), (293, 39947), (296, 39989), (297, 40031), (298, 40070),

Gene: Laroye_67 Start: 36530, Stop: 39547, Start Num: 23

Candidate Starts for Laroye_67:

(Start: 23 @36530 has 7 MA's), (25, 36551), (26, 36581), (27, 36584), (29, 36689), (32, 36773), (33, 36782), (34, 36842), (39, 37052), (40, 37058), (41, 37061), (42, 37064), (46, 37151), (48, 37202), (49, 37244), (50, 37247), (53, 37331), (55, 37349), (62, 37499), (75, 37592), (76, 37601), (85, 37691), (91, 37787), (93, 37805), (95, 37817), (96, 37835), (97, 37838), (98, 37850), (100, 37871), (101, 37883), (103, 37934), (110, 38027), (118, 38114), (123, 38150), (125, 38162), (127, 38171), (130, 38201), (132, 38216), (134, 38225), (143, 38294), (167, 38333), (177, 38459), (196, 38534), (204, 38609), (205, 38630), (207, 38663), (208, 38666), (212, 38708), (214, 38720), (216, 38741), (221, 38795), (226, 38897), (229, 38960), (235, 39071), (239, 39104), (246, 39158), (247, 39167), (255, 39260), (256, 39269), (260, 39368), (262, 39374), (265, 39404), (267, 39443), (271, 39530),

Gene: LiSara_64 Start: 36692, Stop: 39709, Start Num: 23

Candidate Starts for LiSara_64:

(Start: 23 @36692 has 7 MA's), (25, 36713), (26, 36743), (27, 36746), (29, 36851), (32, 36935), (33, 36944), (34, 37004), (39, 37214), (40, 37220), (41, 37223), (42, 37226), (46, 37313), (48, 37364), (49,

37406), (50, 37409), (53, 37493), (55, 37511), (62, 37661), (75, 37754), (76, 37763), (85, 37853), (91, 37949), (95, 37979), (96, 37997), (97, 38000), (98, 38012), (100, 38033), (101, 38045), (103, 38096), (110, 38189), (118, 38276), (123, 38312), (125, 38324), (127, 38333), (130, 38363), (132, 38378), (134, 38387), (143, 38456), (167, 38495), (177, 38621), (196, 38696), (204, 38771), (205, 38792), (207, 38825), (208, 38828), (212, 38870), (214, 38882), (216, 38903), (221, 38957), (226, 39059), (229, 39122), (235, 39233), (239, 39266), (246, 39320), (247, 39329), (253, 39398), (255, 39422), (256, 39431), (260, 39530), (262, 39536), (265, 39566), (267, 39605), (271, 39692),

Gene: RootBeer_15 Start: 9305, Stop: 13243, Start Num: 8

Candidate Starts for RootBeer_15:

(6, 9296), (7, 9299), (Start: 8 @9305 has 1 MA's), (15, 9497), (18, 9518), (30, 9938), (34, 10028), (37, 10133), (38, 10205), (40, 10244), (42, 10250), (45, 10301), (46, 10337), (48, 10388), (50, 10433), (51, 10454), (55, 10535), (57, 10553), (62, 10697), (80, 10838), (87, 10889), (89, 10949), (94, 10991), (101, 11060), (105, 11138), (108, 11195), (114, 11261), (115, 11270), (116, 11276), (117, 11282), (122, 11339), (124, 11354), (125, 11363), (126, 11369), (129, 11396), (130, 11402), (134, 11426), (149, 11546), (151, 11555), (157, 11594), (160, 11612), (161, 11621), (162, 11624), (163, 11648), (165, 11657), (174, 11768), (176, 11789), (186, 11888), (193, 11987), (195, 12020), (197, 12041), (201, 12086), (206, 12140), (211, 12206), (228, 12362), (231, 12374), (241, 12530), (249, 12605), (263, 12797), (269, 12908), (273, 12959), (274, 12968), (275, 12983), (277, 13004), (280, 13037), (282, 13058), (284, 13067), (289, 13148),

Gene: Salgado_67 Start: 36346, Stop: 39363, Start Num: 23

Candidate Starts for Salgado_67:

(Start: 23 @36346 has 7 MA's), (25, 36367), (26, 36397), (27, 36400), (29, 36505), (32, 36589), (33, 36598), (34, 36658), (39, 36868), (40, 36874), (41, 36877), (42, 36880), (46, 36967), (48, 37018), (49, 37060), (50, 37063), (53, 37147), (55, 37165), (62, 37315), (66, 37354), (75, 37408), (76, 37417), (85, 37507), (91, 37603), (95, 37633), (96, 37651), (97, 37654), (98, 37666), (100, 37687), (101, 37699), (103, 37750), (110, 37843), (118, 37930), (123, 37966), (125, 37978), (127, 37987), (130, 38017), (132, 38032), (134, 38041), (143, 38110), (167, 38149), (177, 38275), (196, 38350), (204, 38425), (205, 38446), (207, 38479), (208, 38482), (212, 38524), (214, 38536), (216, 38557), (221, 38611), (226, 38713), (229, 38776), (235, 38887), (239, 38920), (246, 38974), (247, 38983), (255, 39076), (256, 39085), (260, 39184), (262, 39190), (265, 39220), (267, 39259), (271, 39346),

Gene: Shrooms_65 Start: 34492, Stop: 37881, Start Num: 23

Candidate Starts for Shrooms_65:

(21, 34486), (Start: 23 @34492 has 7 MA's), (24, 34510), (25, 34513), (26, 34543), (27, 34546), (28, 34621), (31, 34723), (32, 34735), (34, 34804), (40, 35020), (41, 35023), (42, 35026), (46, 35113), (48, 35164), (50, 35209), (52, 35236), (55, 35311), (57, 35329), (58, 35362), (61, 35431), (63, 35491), (64, 35494), (70, 35560), (71, 35566), (72, 35587), (74, 35602), (76, 35644), (79, 35698), (82, 35722), (83, 35728), (85, 35743), (86, 35752), (90, 35833), (94, 35866), (98, 35902), (101, 35935), (103, 35986), (106, 36016), (109, 36076), (110, 36079), (118, 36166), (120, 36178), (121, 36187), (127, 36223), (128, 36235), (130, 36253), (135, 36280), (141, 36331), (147, 36364), (152, 36409), (154, 36427), (156, 36433), (157, 36445), (160, 36463), (161, 36472), (167, 36517), (170, 36586), (175, 36631), (178, 36649), (180, 36673), (181, 36676), (182, 36685), (184, 36697), (185, 36709), (188, 36751), (192, 36817), (199, 36907), (203, 36940), (204, 36958), (207, 37012), (208, 37015), (213, 37066), (214, 37069), (216, 37090), (217, 37102), (218, 37126), (220, 37135), (223, 37156), (226, 37246), (227, 37267), (229, 37309), (232, 37327), (233, 37399), (235, 37420), (238, 37444), (239, 37453), (242, 37474), (246, 37507), (255, 37609), (258, 37654), (264, 37720), (267, 37777),

Gene: Sonali_16 Start: 13198, Stop: 17811, Start Num: 1

Candidate Starts for Sonali_16:

(Start: 1 @13198 has 1 MA's), (2, 13219), (3, 13225), (4, 13234), (5, 13285), (10, 13450), (11, 13501), (13, 13531), (14, 13636), (16, 13642), (17, 13654), (34, 14179), (36, 14281), (37, 14284), (38, 14356),

(39, 14389), (40, 14395), (42, 14401), (44, 14431), (46, 14488), (47, 14497), (48, 14539), (50, 14584), (55, 14686), (67, 14896), (69, 14920), (73, 14983), (76, 15046), (80, 15106), (84, 15136), (89, 15217), (101, 15328), (104, 15424), (107, 15460), (110, 15499), (113, 15529), (114, 15550), (115, 15559), (116, 15565), (123, 15640), (131, 15697), (144, 15790), (145, 15793), (146, 15796), (149, 15835), (157, 15883), (158, 15889), (159, 15892), (160, 15901), (161, 15910), (163, 15937), (173, 16054), (179, 16108), (186, 16177), (190, 16246), (193, 16276), (197, 16330), (200, 16354), (201, 16375), (206, 16429), (219, 16627), (224, 16702), (228, 16807), (237, 16945), (240, 16972), (243, 16996), (244, 16999), (251, 17074), (263, 17242), (268, 17308), (269, 17353), (276, 17434), (281, 17497), (294, 17731), (295, 17743),

Gene: Waltz_64 Start: 34787, Stop: 37879, Start Num: 23

Candidate Starts for Waltz_64:

(21, 34781), (Start: 23 @34787 has 7 MA's), (24, 34805), (25, 34808), (26, 34838), (28, 34916), (31, 35018), (32, 35030), (34, 35099), (40, 35315), (41, 35318), (42, 35321), (46, 35408), (48, 35459), (50, 35504), (52, 35531), (55, 35606), (57, 35624), (58, 35657), (59, 35702), (60, 35720), (63, 35786), (64, 35789), (68, 35828), (71, 35861), (72, 35882), (74, 35897), (76, 35939), (77, 35969), (79, 35993), (82, 36017), (83, 36023), (85, 36038), (86, 36047), (92, 36140), (94, 36161), (98, 36197), (101, 36230), (103, 36281), (106, 36311), (110, 36374), (114, 36422), (117, 36443), (118, 36461), (120, 36473), (121, 36482), (123, 36497), (127, 36518), (132, 36563), (134, 36572), (138, 36590), (143, 36641), (165, 36671), (167, 36680), (170, 36749), (177, 36806), (203, 36938), (204, 36956), (207, 37010), (208, 37013), (213, 37064), (214, 37067), (220, 37133), (222, 37145), (226, 37244), (227, 37265), (229, 37307), (233, 37397), (235, 37418), (238, 37442), (239, 37451), (242, 37472), (246, 37505), (247, 37514), (255, 37607), (258, 37652), (264, 37718), (267, 37775), (270, 37841),

Gene: Wheelbite_63 Start: 36504, Stop: 39521, Start Num: 23

Candidate Starts for Wheelbite_63:

(Start: 23 @36504 has 7 MA's), (25, 36525), (26, 36555), (27, 36558), (29, 36663), (33, 36756), (34, 36816), (39, 37026), (40, 37032), (41, 37035), (42, 37038), (46, 37125), (48, 37176), (49, 37218), (50, 37221), (53, 37305), (55, 37323), (62, 37473), (75, 37566), (85, 37665), (91, 37761), (96, 37809), (97, 37812), (98, 37824), (100, 37845), (101, 37857), (103, 37908), (110, 38001), (111, 38016), (123, 38124), (125, 38136), (127, 38145), (130, 38175), (134, 38199), (137, 38214), (143, 38268), (167, 38307), (177, 38433), (200, 38538), (205, 38604), (208, 38640), (210, 38658), (212, 38682), (214, 38694), (215, 38703), (216, 38715), (221, 38769), (225, 38850), (226, 38871), (227, 38892), (229, 38934), (230, 38937), (235, 39045), (239, 39078), (242, 39099), (247, 39141), (248, 39147), (252, 39204), (255, 39234), (256, 39243), (260, 39342), (262, 39348), (267, 39417), (271, 39504),