

Zoomed Pham 311882



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 311882 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311882 has 30 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Farewell_14
- Track 2 : Sparky_14
- Track 3 : Corazon_46, GoongGoong_47, Lilbit_47, Marvin_46, Huphlepuuff_50
- Track 4 : Clarkson_49
- Track 5 : LittleLaf_48
- Track 6 : FeliMaine_50
- Track 7 : Pringar_48
- Track 8 : Blackbeetle_48, Poise_48
- Track 9 : VasuNzinga_48
- Track 10 : Beelzebub_52
- Track 11 : Gattaca_47
- Track 12 : MosMoris_46
- Track 13 : Caprice_45
- Track 14 : Raela_48
- Track 15 : Tesla_47
- Track 16 : JoieB_49
- Track 17 : RedRaider77_48
- Track 18 : ZenTime222_17, Nairb_17, Bernal13_17, Whitty_17, Ibrahim_17, RonRayGun_17
- Track 19 : Nette_17, Mendokysei_16

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 17 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Blackbeetle_48, Clarkson_49, Corazon_46, FeliMaine_50, Gattaca_47, GoongGoong_47, Huphlepuuff_50, JoieB_49, Lilbit_47, Marvin_46, MosMoris_46, Poise_48, Pringar_48, Raela_48, RedRaider77_48, Tesla_47, VasuNzinga_48,

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

- Beelzebub_52, Caprice_45, LittleLaf_48,

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

- Bernal13_17, Farewell_14, Ibrahim_17, Mendokysei_16, Nairb_17, Nette_17, RonRayGun_17, Sparky_14, Whitty_17, ZenTime222_17,

Summary by start number:

Start 1:

- Found in 20 of 30 (66.7%) of genes in pham
- Manual Annotations of this start: 17 of 28
- Called 85.0% of time when present
- Phage (with cluster) where this start called: Blackbeetle_48 (S), Clarkson_49 (S), Corazon_46 (S), FeliMaine_50 (S), Gattaca_47 (S), GoongGoong_47 (S), Huphlepuuff_50 (S), JoieB_49 (S), Lilbit_47 (S), Marvin_46 (S), MosMoris_46 (S), Poise_48 (S), Pringar_48 (S), Raela_48 (S), RedRaider77_48 (S), Tesla_47 (S), VasuNzinga_48 (S),

Start 2:

- Found in 20 of 30 (66.7%) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 15.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_52 (S), Caprice_45 (S), LittleLaf_48 (S),

Start 6:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_14 (AF), Sparky_14 (AF),

Start 32:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mendokysei_16 (T), Nette_17 (T),

Start 33:

- Found in 6 of 30 (20.0%) of genes in pham
- Manual Annotations of this start: 6 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bernal13_17 (T), Ibrahim_17 (T), Nairb_17 (T), RonRayGun_17 (T), Whitty_17 (T), ZenTime222_17 (T),

Summary by clusters:

There are 3 clusters represented in this pham: S, T, AF,

Info for manual annotations of cluster AF:

- Start number 6 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster S:

- Start number 1 was manually annotated 17 times for cluster S.
- Start number 2 was manually annotated 2 times for cluster S.

Info for manual annotations of cluster T:

- Start number 32 was manually annotated 1 time for cluster T.
- Start number 33 was manually annotated 6 times for cluster T.

Gene Information:

Gene: Beelzebub_52 Start: 21230, Stop: 26710, Start Num: 2

Candidate Starts for Beelzebub_52:

(Start: 1 @21188 has 17 MA's), (Start: 2 @21230 has 2 MA's), (3, 21374), (4, 21392), (5, 21404), (7, 21557), (14, 21716), (15, 21728), (17, 21761), (18, 21842), (19, 21845), (21, 21890), (22, 21911), (23, 21938), (25, 21980), (26, 22022), (31, 22082), (34, 22106), (36, 22142), (37, 22145), (40, 22226), (42, 22274), (43, 22304), (48, 22484), (49, 22487), (53, 22535), (56, 22610), (59, 22658), (61, 22754), (62, 22772), (64, 22790), (65, 22802), (70, 22850), (71, 22874), (72, 22886), (73, 22907), (74, 23006), (77, 23054), (80, 23087), (81, 23129), (83, 23198), (85, 23267), (86, 23276), (87, 23279), (88, 23399), (89, 23411), (92, 23441), (96, 23486), (97, 23507), (98, 23543), (99, 23570), (102, 23597), (103, 23600), (105, 23609), (107, 23666), (119, 23909), (120, 23930), (122, 23972), (123, 24032), (129, 24227), (130, 24242), (131, 24251), (134, 24275), (135, 24287), (136, 24290), (137, 24305), (139, 24338), (144, 24416), (148, 24503), (150, 24539), (152, 24587), (154, 24614), (158, 24728), (160, 24761), (161, 24806), (163, 24857), (167, 24914), (168, 24935), (172, 25016), (174, 25058), (179, 25136), (180, 25139), (185, 25205), (186, 25256), (192, 25388), (194, 25484), (197, 25523), (201, 25625), (202, 25637), (209, 25790), (210, 25793), (212, 25904), (214, 25922), (218, 25994), (221, 26060), (228, 26156), (230, 26183), (232, 26264), (235, 26342), (239, 26420), (241, 26498), (244, 26648), (245, 26654),

Gene: Bernal13_17 Start: 11932, Stop: 16017, Start Num: 33

Candidate Starts for Bernal13_17:

(24, 11794), (Start: 33 @11932 has 6 MA's), (41, 12082), (44, 12175), (47, 12223), (53, 12322), (63, 12529), (68, 12562), (69, 12583), (72, 12619), (78, 12808), (79, 12817), (90, 13156), (111, 13471), (115, 13525), (118, 13567), (119, 13603), (126, 13819), (132, 13942), (142, 14056), (145, 14104), (151, 14206), (159, 14392), (164, 14518), (171, 14638), (177, 14746), (188, 14875), (190, 14932), (191, 14935), (198, 15112), (199, 15142), (205, 15229), (207, 15310), (208, 15313), (223, 15583), (224, 15607), (236, 15829), (237, 15868), (240, 15922),

Gene: Blackbeetle_48 Start: 20207, Stop: 25756, Start Num: 1

Candidate Starts for Blackbeetle_48:

(Start: 1 @20207 has 17 MA's), (Start: 2 @20249 has 2 MA's), (3, 20393), (4, 20411), (5, 20423), (7, 20576), (14, 20735), (15, 20747), (17, 20780), (18, 20861), (19, 20864), (21, 20909), (22, 20930), (23, 20957), (25, 20999), (26, 21041), (31, 21101), (34, 21125), (36, 21161), (37, 21164), (40, 21245), (42, 21293), (43, 21323), (48, 21503), (49, 21506), (53, 21554), (56, 21629), (59, 21677), (61, 21773), (62, 21791), (64, 21809), (65, 21821), (70, 21869), (71, 21893), (72, 21905), (73, 21926), (74, 22025), (77, 22073), (80, 22106), (81, 22148), (83, 22217), (85, 22286), (86, 22295), (87, 22298), (88, 22418), (89, 22430), (92, 22460), (96, 22505), (97, 22526), (98, 22562), (99, 22589), (102, 22616), (103, 22619), (105, 22628), (107, 22685), (109, 22757), (113, 22814), (119, 22928), (120, 22949), (122, 22991), (123, 23051), (129, 23246), (130, 23261), (131, 23270), (134, 23294), (135, 23306), (136, 23309), (137, 23324), (139, 23357), (144, 23435), (148, 23522), (150, 23558), (152, 23606), (154, 23633), (158, 23747), (160, 23780), (161, 23825), (163, 23876), (166, 23924), (167, 23933), (168, 23954), (172, 24035), (174, 24077), (179, 24155), (180, 24158), (185, 24224), (186, 24275), (189, 24344), (194, 24500), (197, 24539), (201, 24641), (202, 24653), (209, 24806), (210, 24809), (212, 24920), (214, 24938), (217, 24968), (218, 25010), (220, 25049), (222, 25100), (232, 25310), (235, 25388), (239, 25466), (241, 25544), (244, 25694), (245, 25700),

Gene: Caprice_45 Start: 20319, Stop: 25826, Start Num: 2

Candidate Starts for Caprice_45:

(Start: 1 @20277 has 17 MA's), (Start: 2 @20319 has 2 MA's), (3, 20463), (4, 20481), (5, 20493), (7, 20646), (14, 20805), (15, 20817), (17, 20850), (18, 20931), (19, 20934), (21, 20979), (22, 21000), (23, 21027), (25, 21069), (26, 21111), (31, 21171), (34, 21195), (36, 21231), (37, 21234), (40, 21315), (42, 21363), (43, 21393), (46, 21489), (48, 21573), (49, 21576), (53, 21624), (56, 21699), (59, 21747), (61, 21843), (62, 21861), (64, 21879), (65, 21891), (70, 21939), (71, 21963), (72, 21975), (73, 21996), (74, 22095), (77, 22143), (80, 22176), (81, 22218), (83, 22287), (85, 22356), (86, 22365), (87, 22368), (88, 22488), (89, 22500), (92, 22530), (96, 22575), (97, 22596), (98, 22632), (99, 22659), (102, 22686), (103, 22689), (105, 22698), (107, 22755), (113, 22884), (119, 22998), (120, 23019), (122, 23061), (123, 23121), (129, 23316), (130, 23331), (131, 23340), (134, 23364), (135, 23376), (136, 23379), (137, 23394), (139, 23427), (143, 23499), (144, 23505), (148, 23592), (150, 23628), (152, 23676), (154, 23703), (158, 23817), (160, 23850), (161, 23895), (163, 23946), (166, 23994), (167, 24003), (168, 24024), (172, 24105), (174, 24147), (179, 24225), (180, 24228), (185, 24294), (186, 24345), (194, 24570), (197, 24609), (201, 24711), (202, 24723), (209, 24876), (210, 24879), (212, 24990), (214, 25008), (218, 25080), (220, 25119), (222, 25170), (232, 25380), (235, 25458), (239, 25536), (241, 25614), (244, 25764), (245, 25770),

Gene: Clarkson_49 Start: 20889, Stop: 26438, Start Num: 1

Candidate Starts for Clarkson_49:

(Start: 1 @20889 has 17 MA's), (Start: 2 @20931 has 2 MA's), (3, 21075), (4, 21093), (5, 21105), (7, 21258), (14, 21417), (15, 21429), (17, 21462), (18, 21543), (19, 21546), (21, 21591), (22, 21612), (23, 21639), (25, 21681), (26, 21723), (31, 21783), (34, 21807), (36, 21843), (37, 21846), (40, 21927), (42, 21975), (43, 22005), (48, 22185), (49, 22188), (53, 22236), (56, 22311), (59, 22359), (61, 22455), (62, 22473), (64, 22491), (65, 22503), (70, 22551), (71, 22575), (72, 22587), (73, 22608), (74, 22707), (77, 22755), (80, 22788), (81, 22830), (83, 22899), (85, 22968), (86, 22977), (87, 22980), (88, 23100), (89, 23112), (92, 23142), (96, 23187), (97, 23208), (98, 23244), (99, 23271), (102, 23298), (103, 23301), (105, 23310), (107, 23367), (113, 23496), (119, 23610), (120, 23631), (122, 23673), (123, 23733), (129, 23928), (130, 23943), (131, 23952), (134, 23976), (135, 23988), (136, 23991), (137, 24006), (139, 24039), (144, 24117), (148, 24204), (150, 24240), (154, 24315), (158, 24429), (160, 24462), (161, 24507), (163, 24558), (166, 24606), (167, 24615), (168, 24636), (172, 24717), (174, 24759), (179, 24837), (180, 24840), (185, 24906), (186, 24957), (189, 25026), (194, 25182), (197, 25221), (201, 25323), (202, 25335), (209, 25488), (210, 25491), (212, 25602), (214, 25620), (217, 25650), (218, 25692), (220, 25731), (222, 25782), (232, 25992), (235, 26070), (239, 26148), (241, 26226), (244, 26376), (245, 26382),

Gene: Corazon_46 Start: 20842, Stop: 26391, Start Num: 1

Candidate Starts for Corazon_46:

(Start: 1 @20842 has 17 MA's), (Start: 2 @20884 has 2 MA's), (3, 21028), (4, 21046), (5, 21058), (7, 21211), (14, 21370), (15, 21382), (17, 21415), (18, 21496), (19, 21499), (21, 21544), (22, 21565), (23, 21592), (25, 21634), (26, 21676), (31, 21736), (34, 21760), (36, 21796), (37, 21799), (40, 21880), (42, 21928), (43, 21958), (48, 22138), (49, 22141), (53, 22189), (56, 22264), (59, 22312), (61, 22408), (62, 22426), (64, 22444), (65, 22456), (70, 22504), (71, 22528), (72, 22540), (73, 22561), (74, 22660), (77, 22708), (80, 22741), (81, 22783), (83, 22852), (85, 22921), (86, 22930), (87, 22933), (88, 23053), (89, 23065), (92, 23095), (96, 23140), (97, 23161), (98, 23197), (99, 23224), (102, 23251), (103, 23254), (105, 23263), (107, 23320), (113, 23449), (119, 23563), (120, 23584), (122, 23626), (123, 23686), (129, 23881), (130, 23896), (131, 23905), (134, 23929), (135, 23941), (136, 23944), (137, 23959), (139, 23992), (144, 24070), (148, 24157), (150, 24193), (152, 24241), (154, 24268), (158, 24382), (160, 24415), (161, 24460), (163, 24511), (166, 24559), (167, 24568), (168, 24589), (172, 24670), (174, 24712), (179, 24790), (180, 24793), (185, 24859), (186, 24910), (189, 24979), (194, 25135), (197, 25174), (201, 25276), (202, 25288), (209, 25441), (210, 25444), (212, 25555), (214, 25573), (217, 25603), (218, 25645), (220, 25684), (222, 25735), (232, 25945), (235, 26023), (239, 26101), (241, 26179), (244, 26329), (245, 26335),

Gene: Farewell_14 Start: 9733, Stop: 15126, Start Num: 6

Candidate Starts for Farewell_14:

(Start: 6 @9733 has 2 MA's), (8, 9814), (9, 9823), (10, 9844), (11, 9850), (12, 9865), (13, 9874), (16, 10006), (20, 10126), (27, 10270), (28, 10279), (29, 10294), (30, 10315), (35, 10366), (38, 10390), (39, 10429), (42, 10507), (44, 10600), (45, 10621), (50, 10729), (51, 10732), (52, 10750), (54, 10807), (55, 10831), (57, 10855), (58, 10858), (60, 10951), (62, 11002), (66, 11035), (67, 11047), (75, 11263), (82, 11419), (84, 11440), (86, 11512), (90, 11656), (91, 11668), (93, 11680), (94, 11689), (95, 11710), (97, 11743), (100, 11803), (101, 11815), (105, 11836), (106, 11866), (108, 11890), (110, 11962), (112, 12004), (114, 12016), (116, 12034), (117, 12043), (119, 12109), (121, 12136), (125, 12301), (128, 12388), (133, 12445), (134, 12448), (138, 12481), (141, 12547), (146, 12619), (149, 12679), (151, 12700), (156, 12823), (157, 12880), (162, 12991), (165, 13060), (169, 13120), (170, 13159), (173, 13213), (175, 13231), (176, 13264), (178, 13288), (181, 13306), (184, 13357), (185, 13366), (187, 13420), (192, 13552), (193, 13582), (195, 13672), (199, 13750), (200, 13771), (203, 13810), (204, 13819), (206, 13867), (211, 14050), (213, 14083), (215, 14107), (219, 14200), (225, 14296), (227, 14323), (229, 14362), (231, 14407), (233, 14455), (234, 14515), (238, 14581), (242, 14770), (246, 14839), (247, 14896), (248, 14920), (249, 14947), (250, 14971), (251, 15031), (252, 15058), (253, 15061),

Gene: FeliMaine_50 Start: 20890, Stop: 26439, Start Num: 1

Candidate Starts for FeliMaine_50:

(Start: 1 @20890 has 17 MA's), (Start: 2 @20932 has 2 MA's), (3, 21076), (4, 21094), (5, 21106), (7, 21259), (14, 21418), (15, 21430), (17, 21463), (18, 21544), (19, 21547), (21, 21592), (22, 21613), (23, 21640), (25, 21682), (26, 21724), (31, 21784), (34, 21808), (36, 21844), (37, 21847), (40, 21928), (42, 21976), (43, 22006), (46, 22102), (48, 22186), (49, 22189), (53, 22237), (56, 22312), (59, 22360), (61, 22456), (62, 22474), (64, 22492), (65, 22504), (70, 22552), (71, 22576), (72, 22588), (73, 22609), (74, 22708), (77, 22756), (80, 22789), (81, 22831), (83, 22900), (85, 22969), (86, 22978), (87, 22981), (88, 23101), (89, 23113), (92, 23143), (96, 23188), (97, 23209), (98, 23245), (99, 23272), (102, 23299), (103, 23302), (105, 23311), (107, 23368), (119, 23611), (120, 23632), (122, 23674), (123, 23734), (129, 23929), (130, 23944), (131, 23953), (134, 23977), (135, 23989), (136, 23992), (137, 24007), (139, 24040), (144, 24118), (148, 24205), (150, 24241), (152, 24289), (154, 24316), (158, 24430), (160, 24463), (161, 24508), (163, 24559), (166, 24607), (167, 24616), (168, 24637), (172, 24718), (174, 24760), (179, 24838), (180, 24841), (185, 24907), (186, 24958), (189, 25027), (194, 25183), (197, 25222), (201, 25324), (202, 25336), (209, 25489), (210, 25492), (212, 25603), (214, 25621), (217, 25651), (218, 25693), (220, 25732), (222, 25783), (232, 25993), (235, 26071), (239, 26149), (241, 26227), (244, 26377), (245, 26383),

Gene: Gattaca_47 Start: 20069, Stop: 25618, Start Num: 1

Candidate Starts for Gattaca_47:

(Start: 1 @20069 has 17 MA's), (Start: 2 @20111 has 2 MA's), (3, 20255), (4, 20273), (5, 20285), (7, 20438), (14, 20597), (15, 20609), (17, 20642), (18, 20723), (19, 20726), (21, 20771), (22, 20792), (23, 20819), (25, 20861), (26, 20903), (31, 20963), (34, 20987), (36, 21023), (37, 21026), (38, 21038), (40, 21107), (42, 21155), (43, 21185), (46, 21281), (48, 21365), (49, 21368), (53, 21416), (56, 21491), (59, 21539), (61, 21635), (62, 21653), (64, 21671), (65, 21683), (70, 21731), (71, 21755), (72, 21767), (73, 21788), (74, 21887), (77, 21935), (80, 21968), (81, 22010), (83, 22079), (85, 22148), (86, 22157), (87, 22160), (88, 22280), (89, 22292), (92, 22322), (96, 22367), (97, 22388), (98, 22424), (99, 22451), (102, 22478), (103, 22481), (105, 22490), (107, 22547), (113, 22676), (119, 22790), (120, 22811), (122, 22853), (123, 22913), (129, 23108), (130, 23123), (131, 23132), (134, 23156), (135, 23168), (136, 23171), (137, 23186), (139, 23219), (144, 23297), (148, 23384), (150, 23420), (152, 23468), (154, 23495), (158, 23609), (160, 23642), (161, 23687), (163, 23738), (166, 23786), (167, 23795), (168, 23816), (172, 23897), (174, 23939), (179, 24017), (180, 24020), (185, 24086), (186, 24137), (189, 24206), (194, 24362), (197, 24401), (201, 24503), (202, 24515), (209, 24668), (210, 24671), (212, 24782), (217, 24830), (218, 24872), (220, 24911), (222, 24962), (232, 25172), (235, 25250), (239,

25328), (241, 25406), (244, 25556), (245, 25562),

Gene: GoongGoong_47 Start: 20109, Stop: 25658, Start Num: 1

Candidate Starts for GoongGoong_47:

(Start: 1 @20109 has 17 MA's), (Start: 2 @20151 has 2 MA's), (3, 20295), (4, 20313), (5, 20325), (7, 20478), (14, 20637), (15, 20649), (17, 20682), (18, 20763), (19, 20766), (21, 20811), (22, 20832), (23, 20859), (25, 20901), (26, 20943), (31, 21003), (34, 21027), (36, 21063), (37, 21066), (40, 21147), (42, 21195), (43, 21225), (48, 21405), (49, 21408), (53, 21456), (56, 21531), (59, 21579), (61, 21675), (62, 21693), (64, 21711), (65, 21723), (70, 21771), (71, 21795), (72, 21807), (73, 21828), (74, 21927), (77, 21975), (80, 22008), (81, 22050), (83, 22119), (85, 22188), (86, 22197), (87, 22200), (88, 22320), (89, 22332), (92, 22362), (96, 22407), (97, 22428), (98, 22464), (99, 22491), (102, 22518), (103, 22521), (105, 22530), (107, 22587), (113, 22716), (119, 22830), (120, 22851), (122, 22893), (123, 22953), (129, 23148), (130, 23163), (131, 23172), (134, 23196), (135, 23208), (136, 23211), (137, 23226), (139, 23259), (144, 23337), (148, 23424), (150, 23460), (152, 23508), (154, 23535), (158, 23649), (160, 23682), (161, 23727), (163, 23778), (166, 23826), (167, 23835), (168, 23856), (172, 23937), (174, 23979), (179, 24057), (180, 24060), (185, 24126), (186, 24177), (189, 24246), (194, 24402), (197, 24441), (201, 24543), (202, 24555), (209, 24708), (210, 24711), (212, 24822), (214, 24840), (217, 24870), (218, 24912), (220, 24951), (222, 25002), (232, 25212), (235, 25290), (239, 25368), (241, 25446), (244, 25596), (245, 25602),

Gene: Huphlepuuff_50 Start: 20694, Stop: 26243, Start Num: 1

Candidate Starts for Huphlepuuff_50:

(Start: 1 @20694 has 17 MA's), (Start: 2 @20736 has 2 MA's), (3, 20880), (4, 20898), (5, 20910), (7, 21063), (14, 21222), (15, 21234), (17, 21267), (18, 21348), (19, 21351), (21, 21396), (22, 21417), (23, 21444), (25, 21486), (26, 21528), (31, 21588), (34, 21612), (36, 21648), (37, 21651), (40, 21732), (42, 21780), (43, 21810), (48, 21990), (49, 21993), (53, 22041), (56, 22116), (59, 22164), (61, 22260), (62, 22278), (64, 22296), (65, 22308), (70, 22356), (71, 22380), (72, 22392), (73, 22413), (74, 22512), (77, 22560), (80, 22593), (81, 22635), (83, 22704), (85, 22773), (86, 22782), (87, 22785), (88, 22905), (89, 22917), (92, 22947), (96, 22992), (97, 23013), (98, 23049), (99, 23076), (102, 23103), (103, 23106), (105, 23115), (107, 23172), (113, 23301), (119, 23415), (120, 23436), (122, 23478), (123, 23538), (129, 23733), (130, 23748), (131, 23757), (134, 23781), (135, 23793), (136, 23796), (137, 23811), (139, 23844), (144, 23922), (148, 24009), (150, 24045), (152, 24093), (154, 24120), (158, 24234), (160, 24267), (161, 24312), (163, 24363), (166, 24411), (167, 24420), (168, 24441), (172, 24522), (174, 24564), (179, 24642), (180, 24645), (185, 24711), (186, 24762), (189, 24831), (194, 24987), (197, 25026), (201, 25128), (202, 25140), (209, 25293), (210, 25296), (212, 25407), (214, 25425), (217, 25455), (218, 25497), (220, 25536), (222, 25587), (232, 25797), (235, 25875), (239, 25953), (241, 26031), (244, 26181), (245, 26187),

Gene: Ibrahim_17 Start: 11932, Stop: 16017, Start Num: 33

Candidate Starts for Ibrahim_17:

(24, 11794), (Start: 33 @11932 has 6 MA's), (41, 12082), (44, 12175), (47, 12223), (53, 12322), (63, 12529), (68, 12562), (69, 12583), (72, 12619), (78, 12808), (79, 12817), (90, 13156), (111, 13471), (115, 13525), (118, 13567), (119, 13603), (126, 13819), (132, 13942), (142, 14056), (145, 14104), (151, 14206), (159, 14392), (164, 14518), (171, 14638), (177, 14746), (188, 14875), (190, 14932), (191, 14935), (198, 15112), (199, 15142), (205, 15229), (207, 15310), (208, 15313), (223, 15583), (224, 15607), (236, 15829), (237, 15868), (240, 15922),

Gene: JoieB_49 Start: 20913, Stop: 26435, Start Num: 1

Candidate Starts for JoieB_49:

(Start: 1 @20913 has 17 MA's), (Start: 2 @20955 has 2 MA's), (3, 21099), (4, 21117), (5, 21129), (7, 21282), (14, 21441), (15, 21453), (17, 21486), (18, 21567), (19, 21570), (21, 21615), (22, 21636), (23, 21663), (25, 21705), (26, 21747), (31, 21807), (34, 21831), (36, 21867), (37, 21870), (40, 21951), (42, 21999), (43, 22029), (46, 22125), (48, 22209), (49, 22212), (53, 22260), (56, 22335), (59, 22383), (61,

22479), (62, 22497), (64, 22515), (65, 22527), (70, 22575), (71, 22599), (72, 22611), (73, 22632), (74, 22731), (77, 22779), (80, 22812), (81, 22854), (83, 22923), (85, 22992), (86, 23001), (87, 23004), (88, 23124), (89, 23136), (92, 23166), (96, 23211), (97, 23232), (98, 23268), (99, 23295), (102, 23322), (103, 23325), (105, 23334), (107, 23391), (119, 23634), (120, 23655), (122, 23697), (123, 23757), (129, 23952), (130, 23967), (131, 23976), (134, 24000), (135, 24012), (136, 24015), (137, 24030), (139, 24063), (144, 24141), (145, 24162), (148, 24228), (150, 24264), (152, 24312), (154, 24339), (158, 24453), (160, 24486), (161, 24531), (163, 24582), (167, 24639), (168, 24660), (172, 24741), (174, 24783), (179, 24861), (180, 24864), (185, 24930), (186, 24981), (192, 25113), (194, 25209), (197, 25248), (201, 25350), (202, 25362), (209, 25515), (210, 25518), (212, 25629), (214, 25647), (218, 25719), (221, 25785), (228, 25881), (230, 25908), (232, 25989), (235, 26067), (239, 26145), (241, 26223), (244, 26373), (245, 26379),

Gene: Lilbit_47 Start: 20890, Stop: 26439, Start Num: 1

Candidate Starts for Lilbit_47:

(Start: 1 @20890 has 17 MA's), (Start: 2 @20932 has 2 MA's), (3, 21076), (4, 21094), (5, 21106), (7, 21259), (14, 21418), (15, 21430), (17, 21463), (18, 21544), (19, 21547), (21, 21592), (22, 21613), (23, 21640), (25, 21682), (26, 21724), (31, 21784), (34, 21808), (36, 21844), (37, 21847), (40, 21928), (42, 21976), (43, 22006), (48, 22186), (49, 22189), (53, 22237), (56, 22312), (59, 22360), (61, 22456), (62, 22474), (64, 22492), (65, 22504), (70, 22552), (71, 22576), (72, 22588), (73, 22609), (74, 22708), (77, 22756), (80, 22789), (81, 22831), (83, 22900), (85, 22969), (86, 22978), (87, 22981), (88, 23101), (89, 23113), (92, 23143), (96, 23188), (97, 23209), (98, 23245), (99, 23272), (102, 23299), (103, 23302), (105, 23311), (107, 23368), (113, 23497), (119, 23611), (120, 23632), (122, 23674), (123, 23734), (129, 23929), (130, 23944), (131, 23953), (134, 23977), (135, 23989), (136, 23992), (137, 24007), (139, 24040), (144, 24118), (148, 24205), (150, 24241), (152, 24289), (154, 24316), (158, 24430), (160, 24463), (161, 24508), (163, 24559), (166, 24607), (167, 24616), (168, 24637), (172, 24718), (174, 24760), (179, 24838), (180, 24841), (185, 24907), (186, 24958), (189, 25027), (194, 25183), (197, 25222), (201, 25324), (202, 25336), (209, 25489), (210, 25492), (212, 25603), (214, 25621), (217, 25651), (218, 25693), (220, 25732), (222, 25783), (232, 25993), (235, 26071), (239, 26149), (241, 26227), (244, 26377), (245, 26383),

Gene: LittleLaf_48 Start: 20661, Stop: 26168, Start Num: 2

Candidate Starts for LittleLaf_48:

(Start: 1 @20619 has 17 MA's), (Start: 2 @20661 has 2 MA's), (3, 20805), (4, 20823), (5, 20835), (7, 20988), (14, 21147), (15, 21159), (17, 21192), (18, 21273), (19, 21276), (21, 21321), (22, 21342), (23, 21369), (25, 21411), (26, 21453), (31, 21513), (34, 21537), (36, 21573), (37, 21576), (40, 21657), (42, 21705), (43, 21735), (48, 21915), (49, 21918), (53, 21966), (56, 22041), (59, 22089), (61, 22185), (62, 22203), (64, 22221), (65, 22233), (70, 22281), (71, 22305), (72, 22317), (73, 22338), (74, 22437), (77, 22485), (80, 22518), (81, 22560), (83, 22629), (85, 22698), (86, 22707), (87, 22710), (88, 22830), (89, 22842), (92, 22872), (96, 22917), (97, 22938), (98, 22974), (99, 23001), (102, 23028), (103, 23031), (105, 23040), (107, 23097), (113, 23226), (119, 23340), (120, 23361), (122, 23403), (123, 23463), (129, 23658), (130, 23673), (131, 23682), (134, 23706), (135, 23718), (136, 23721), (137, 23736), (139, 23769), (144, 23847), (148, 23934), (150, 23970), (152, 24018), (154, 24045), (158, 24159), (160, 24192), (161, 24237), (163, 24288), (166, 24336), (167, 24345), (168, 24366), (172, 24447), (174, 24489), (179, 24567), (180, 24570), (185, 24636), (186, 24687), (189, 24756), (194, 24912), (197, 24951), (201, 25053), (202, 25065), (209, 25218), (210, 25221), (212, 25332), (214, 25350), (217, 25380), (218, 25422), (220, 25461), (222, 25512), (232, 25722), (235, 25800), (239, 25878), (241, 25956), (244, 26106), (245, 26112),

Gene: Marvin_46 Start: 20889, Stop: 26438, Start Num: 1

Candidate Starts for Marvin_46:

(Start: 1 @20889 has 17 MA's), (Start: 2 @20931 has 2 MA's), (3, 21075), (4, 21093), (5, 21105), (7, 21258), (14, 21417), (15, 21429), (17, 21462), (18, 21543), (19, 21546), (21, 21591), (22, 21612), (23, 21639), (25, 21681), (26, 21723), (31, 21783), (34, 21807), (36, 21843), (37, 21846), (40, 21927), (42,

21975), (43, 22005), (48, 22185), (49, 22188), (53, 22236), (56, 22311), (59, 22359), (61, 22455), (62, 22473), (64, 22491), (65, 22503), (70, 22551), (71, 22575), (72, 22587), (73, 22608), (74, 22707), (77, 22755), (80, 22788), (81, 22830), (83, 22899), (85, 22968), (86, 22977), (87, 22980), (88, 23100), (89, 23112), (92, 23142), (96, 23187), (97, 23208), (98, 23244), (99, 23271), (102, 23298), (103, 23301), (105, 23310), (107, 23367), (113, 23496), (119, 23610), (120, 23631), (122, 23673), (123, 23733), (129, 23928), (130, 23943), (131, 23952), (134, 23976), (135, 23988), (136, 23991), (137, 24006), (139, 24039), (144, 24117), (148, 24204), (150, 24240), (152, 24288), (154, 24315), (158, 24429), (160, 24462), (161, 24507), (163, 24558), (166, 24606), (167, 24615), (168, 24636), (172, 24717), (174, 24759), (179, 24837), (180, 24840), (185, 24906), (186, 24957), (189, 25026), (194, 25182), (197, 25221), (201, 25323), (202, 25335), (209, 25488), (210, 25491), (212, 25602), (214, 25620), (217, 25650), (218, 25692), (220, 25731), (222, 25782), (232, 25992), (235, 26070), (239, 26148), (241, 26226), (244, 26376), (245, 26382),

Gene: Mendokysej_16 Start: 11901, Stop: 15827, Start Num: 32

Candidate Starts for Mendokysej_16:

(Start: 32 @11901 has 1 MA's), (41, 12051), (47, 12192), (53, 12291), (63, 12498), (69, 12552), (72, 12588), (76, 12753), (78, 12777), (104, 13299), (115, 13494), (124, 13686), (126, 13788), (127, 13839), (132, 13911), (140, 13992), (147, 14109), (151, 14175), (153, 14232), (183, 14631), (190, 14748), (196, 14901), (198, 14928), (199, 14958), (205, 15045), (216, 15273), (226, 15429), (230, 15483), (237, 15678), (240, 15732),

Gene: MosMoris_46 Start: 20069, Stop: 25618, Start Num: 1

Candidate Starts for MosMoris_46:

(Start: 1 @20069 has 17 MA's), (Start: 2 @20111 has 2 MA's), (3, 20255), (4, 20273), (5, 20285), (7, 20438), (14, 20597), (15, 20609), (17, 20642), (18, 20723), (19, 20726), (21, 20771), (22, 20792), (23, 20819), (25, 20861), (26, 20903), (31, 20963), (34, 20987), (36, 21023), (37, 21026), (40, 21107), (42, 21155), (43, 21185), (48, 21365), (49, 21368), (53, 21416), (56, 21491), (59, 21539), (61, 21635), (62, 21653), (64, 21671), (65, 21683), (70, 21731), (71, 21755), (72, 21767), (73, 21788), (74, 21887), (77, 21935), (80, 21968), (81, 22010), (83, 22079), (85, 22148), (86, 22157), (87, 22160), (88, 22280), (89, 22292), (92, 22322), (96, 22367), (97, 22388), (98, 22424), (99, 22451), (102, 22478), (103, 22481), (105, 22490), (107, 22547), (113, 22676), (119, 22790), (120, 22811), (122, 22853), (123, 22913), (129, 23108), (130, 23123), (131, 23132), (134, 23156), (135, 23168), (136, 23171), (137, 23186), (139, 23219), (143, 23291), (144, 23297), (148, 23384), (150, 23420), (152, 23468), (154, 23495), (158, 23609), (160, 23642), (161, 23687), (163, 23738), (166, 23786), (167, 23795), (168, 23816), (172, 23897), (174, 23939), (179, 24017), (180, 24020), (185, 24086), (186, 24137), (189, 24206), (194, 24362), (197, 24401), (201, 24503), (202, 24515), (209, 24668), (210, 24671), (212, 24782), (214, 24800), (217, 24830), (218, 24872), (220, 24911), (222, 24962), (232, 25172), (235, 25250), (239, 25328), (241, 25406), (244, 25556), (245, 25562),

Gene: Nairb_17 Start: 11932, Stop: 16017, Start Num: 33

Candidate Starts for Nairb_17:

(24, 11794), (Start: 33 @11932 has 6 MA's), (41, 12082), (44, 12175), (47, 12223), (53, 12322), (63, 12529), (68, 12562), (69, 12583), (72, 12619), (78, 12808), (79, 12817), (90, 13156), (111, 13471), (115, 13525), (118, 13567), (119, 13603), (126, 13819), (132, 13942), (142, 14056), (145, 14104), (151, 14206), (159, 14392), (164, 14518), (171, 14638), (177, 14746), (188, 14875), (190, 14932), (191, 14935), (198, 15112), (199, 15142), (205, 15229), (207, 15310), (208, 15313), (223, 15583), (224, 15607), (236, 15829), (237, 15868), (240, 15922),

Gene: Nette_17 Start: 11910, Stop: 15836, Start Num: 32

Candidate Starts for Nette_17:

(Start: 32 @11910 has 1 MA's), (41, 12060), (47, 12201), (53, 12300), (63, 12507), (69, 12561), (72, 12597), (76, 12762), (78, 12786), (104, 13308), (115, 13503), (124, 13695), (126, 13797), (127, 13848), (132, 13920), (140, 14001), (147, 14118), (151, 14184), (153, 14241), (183, 14640), (190,

14757), (196, 14910), (198, 14937), (199, 14967), (205, 15054), (216, 15282), (226, 15438), (230, 15492), (237, 15687), (240, 15741),

Gene: Poise_48 Start: 20207, Stop: 25756, Start Num: 1

Candidate Starts for Poise_48:

(Start: 1 @20207 has 17 MA's), (Start: 2 @20249 has 2 MA's), (3, 20393), (4, 20411), (5, 20423), (7, 20576), (14, 20735), (15, 20747), (17, 20780), (18, 20861), (19, 20864), (21, 20909), (22, 20930), (23, 20957), (25, 20999), (26, 21041), (31, 21101), (34, 21125), (36, 21161), (37, 21164), (40, 21245), (42, 21293), (43, 21323), (48, 21503), (49, 21506), (53, 21554), (56, 21629), (59, 21677), (61, 21773), (62, 21791), (64, 21809), (65, 21821), (70, 21869), (71, 21893), (72, 21905), (73, 21926), (74, 22025), (77, 22073), (80, 22106), (81, 22148), (83, 22217), (85, 22286), (86, 22295), (87, 22298), (88, 22418), (89, 22430), (92, 22460), (96, 22505), (97, 22526), (98, 22562), (99, 22589), (102, 22616), (103, 22619), (105, 22628), (107, 22685), (109, 22757), (113, 22814), (119, 22928), (120, 22949), (122, 22991), (123, 23051), (129, 23246), (130, 23261), (131, 23270), (134, 23294), (135, 23306), (136, 23309), (137, 23324), (139, 23357), (144, 23435), (148, 23522), (150, 23558), (152, 23606), (154, 23633), (158, 23747), (160, 23780), (161, 23825), (163, 23876), (166, 23924), (167, 23933), (168, 23954), (172, 24035), (174, 24077), (179, 24155), (180, 24158), (185, 24224), (186, 24275), (189, 24344), (194, 24500), (197, 24539), (201, 24641), (202, 24653), (209, 24806), (210, 24809), (212, 24920), (214, 24938), (217, 24968), (218, 25010), (220, 25049), (222, 25100), (232, 25310), (235, 25388), (239, 25466), (241, 25544), (244, 25694), (245, 25700),

Gene: Pringar_48 Start: 20522, Stop: 26044, Start Num: 1

Candidate Starts for Pringar_48:

(Start: 1 @20522 has 17 MA's), (Start: 2 @20564 has 2 MA's), (3, 20708), (5, 20738), (7, 20891), (14, 21050), (15, 21062), (17, 21095), (18, 21176), (19, 21179), (21, 21224), (22, 21245), (23, 21272), (25, 21314), (26, 21356), (31, 21416), (34, 21440), (36, 21476), (37, 21479), (40, 21560), (42, 21608), (43, 21638), (46, 21734), (48, 21818), (49, 21821), (53, 21869), (56, 21944), (59, 21992), (61, 22088), (62, 22106), (64, 22124), (65, 22136), (70, 22184), (71, 22208), (72, 22220), (73, 22241), (74, 22340), (77, 22388), (80, 22421), (81, 22463), (83, 22532), (85, 22601), (86, 22610), (87, 22613), (88, 22733), (89, 22745), (92, 22775), (96, 22820), (97, 22841), (98, 22877), (99, 22904), (102, 22931), (103, 22934), (105, 22943), (107, 23000), (119, 23243), (120, 23264), (122, 23306), (123, 23366), (129, 23561), (130, 23576), (131, 23585), (134, 23609), (135, 23621), (136, 23624), (137, 23639), (139, 23672), (144, 23750), (148, 23837), (150, 23873), (152, 23921), (154, 23948), (158, 24062), (160, 24095), (161, 24140), (163, 24191), (167, 24248), (168, 24269), (172, 24350), (174, 24392), (179, 24470), (180, 24473), (182, 24494), (185, 24539), (186, 24590), (192, 24722), (194, 24818), (197, 24857), (201, 24959), (202, 24971), (209, 25124), (210, 25127), (212, 25238), (214, 25256), (218, 25328), (221, 25394), (228, 25490), (230, 25517), (232, 25598), (235, 25676), (239, 25754), (241, 25832), (244, 25982), (245, 25988),

Gene: Raela_48 Start: 20762, Stop: 26311, Start Num: 1

Candidate Starts for Raela_48:

(Start: 1 @20762 has 17 MA's), (Start: 2 @20804 has 2 MA's), (3, 20948), (4, 20966), (5, 20978), (7, 21131), (14, 21290), (15, 21302), (17, 21335), (18, 21416), (19, 21419), (21, 21464), (22, 21485), (23, 21512), (25, 21554), (26, 21596), (31, 21656), (34, 21680), (36, 21716), (37, 21719), (38, 21731), (40, 21800), (42, 21848), (43, 21878), (48, 22058), (49, 22061), (53, 22109), (56, 22184), (59, 22232), (61, 22328), (62, 22346), (64, 22364), (65, 22376), (70, 22424), (71, 22448), (72, 22460), (73, 22481), (74, 22580), (77, 22628), (80, 22661), (81, 22703), (83, 22772), (85, 22841), (86, 22850), (87, 22853), (88, 22973), (89, 22985), (92, 23015), (96, 23060), (97, 23081), (98, 23117), (99, 23144), (102, 23171), (103, 23174), (105, 23183), (107, 23240), (113, 23369), (119, 23483), (120, 23504), (122, 23546), (123, 23606), (129, 23801), (130, 23816), (131, 23825), (134, 23849), (135, 23861), (136, 23864), (137, 23879), (139, 23912), (143, 23984), (144, 23990), (148, 24077), (150, 24113), (152, 24161), (154, 24188), (158, 24302), (160, 24335), (161, 24380), (163, 24431), (166, 24479), (167, 24488), (168, 24509), (172, 24590), (174, 24632), (179, 24710), (180, 24713), (185, 24779), (186, 24830),

(189, 24899), (194, 25055), (197, 25094), (201, 25196), (202, 25208), (209, 25361), (210, 25364), (212, 25475), (214, 25493), (217, 25523), (218, 25565), (220, 25604), (222, 25655), (232, 25865), (235, 25943), (239, 26021), (241, 26099), (244, 26249), (245, 26255),

Gene: RedRaider77_48 Start: 20663, Stop: 26212, Start Num: 1

Candidate Starts for RedRaider77_48:

(Start: 1 @20663 has 17 MA's), (Start: 2 @20705 has 2 MA's), (3, 20849), (4, 20867), (5, 20879), (7, 21032), (14, 21191), (15, 21203), (17, 21236), (18, 21317), (19, 21320), (21, 21365), (22, 21386), (23, 21413), (25, 21455), (26, 21497), (31, 21557), (34, 21581), (36, 21617), (37, 21620), (40, 21701), (42, 21749), (43, 21779), (48, 21959), (49, 21962), (53, 22010), (56, 22085), (59, 22133), (61, 22229), (62, 22247), (64, 22265), (65, 22277), (70, 22325), (71, 22349), (72, 22361), (73, 22382), (74, 22481), (77, 22529), (80, 22562), (81, 22604), (83, 22673), (85, 22742), (86, 22751), (87, 22754), (88, 22874), (89, 22886), (92, 22916), (96, 22961), (97, 22982), (98, 23018), (99, 23045), (102, 23072), (103, 23075), (105, 23084), (107, 23141), (113, 23270), (119, 23384), (120, 23405), (122, 23447), (123, 23507), (129, 23702), (130, 23717), (131, 23726), (134, 23750), (135, 23762), (136, 23765), (137, 23780), (139, 23813), (144, 23891), (148, 23978), (150, 24014), (152, 24062), (154, 24089), (158, 24203), (160, 24236), (161, 24281), (163, 24332), (166, 24380), (167, 24389), (168, 24410), (172, 24491), (174, 24533), (179, 24611), (180, 24614), (185, 24680), (186, 24731), (194, 24956), (197, 24995), (201, 25097), (202, 25109), (209, 25262), (210, 25265), (212, 25376), (214, 25394), (217, 25424), (218, 25466), (220, 25505), (222, 25556), (232, 25766), (235, 25844), (239, 25922), (241, 26000), (244, 26150), (245, 26156),

Gene: RonRayGun_17 Start: 11932, Stop: 16017, Start Num: 33

Candidate Starts for RonRayGun_17:

(24, 11794), (Start: 33 @11932 has 6 MA's), (41, 12082), (44, 12175), (47, 12223), (53, 12322), (63, 12529), (68, 12562), (69, 12583), (72, 12619), (78, 12808), (79, 12817), (90, 13156), (111, 13471), (115, 13525), (118, 13567), (119, 13603), (126, 13819), (132, 13942), (142, 14056), (145, 14104), (151, 14206), (159, 14392), (164, 14518), (171, 14638), (177, 14746), (188, 14875), (190, 14932), (191, 14935), (198, 15112), (199, 15142), (205, 15229), (207, 15310), (208, 15313), (223, 15583), (224, 15607), (236, 15829), (237, 15868), (240, 15922),

Gene: Sparky_14 Start: 9734, Stop: 15127, Start Num: 6

Candidate Starts for Sparky_14:

(Start: 6 @9734 has 2 MA's), (8, 9815), (9, 9824), (10, 9845), (11, 9851), (12, 9866), (13, 9875), (16, 10007), (27, 10271), (28, 10280), (29, 10295), (30, 10316), (35, 10367), (38, 10391), (39, 10430), (42, 10508), (44, 10601), (45, 10622), (50, 10730), (51, 10733), (52, 10751), (54, 10808), (55, 10832), (57, 10856), (58, 10859), (60, 10952), (62, 11003), (66, 11036), (75, 11264), (82, 11420), (84, 11441), (86, 11513), (90, 11657), (91, 11669), (93, 11681), (94, 11690), (95, 11711), (97, 11744), (100, 11804), (101, 11816), (105, 11837), (106, 11867), (108, 11891), (110, 11963), (112, 12005), (114, 12017), (116, 12035), (117, 12044), (119, 12110), (125, 12302), (128, 12389), (133, 12446), (134, 12449), (138, 12482), (141, 12548), (146, 12620), (149, 12680), (155, 12794), (156, 12824), (157, 12881), (162, 12992), (165, 13061), (169, 13121), (170, 13160), (173, 13214), (175, 13232), (176, 13265), (178, 13289), (181, 13307), (184, 13358), (185, 13367), (187, 13421), (192, 13553), (193, 13583), (195, 13673), (199, 13751), (200, 13772), (203, 13811), (204, 13820), (206, 13868), (211, 14051), (213, 14084), (215, 14108), (219, 14201), (225, 14297), (227, 14324), (229, 14363), (231, 14408), (233, 14456), (234, 14516), (238, 14582), (242, 14771), (243, 14804), (246, 14840), (247, 14897), (248, 14921), (249, 14948), (250, 14972), (251, 15032), (252, 15059), (253, 15062),

Gene: Tesla_47 Start: 20512, Stop: 26061, Start Num: 1

Candidate Starts for Tesla_47:

(Start: 1 @20512 has 17 MA's), (Start: 2 @20554 has 2 MA's), (3, 20698), (4, 20716), (5, 20728), (7, 20881), (14, 21040), (15, 21052), (17, 21085), (18, 21166), (19, 21169), (21, 21214), (22, 21235), (23, 21262), (25, 21304), (26, 21346), (31, 21406), (34, 21430), (36, 21466), (37, 21469), (40, 21550), (42,

21598), (43, 21628), (46, 21724), (48, 21808), (49, 21811), (53, 21859), (56, 21934), (59, 21982), (61, 22078), (62, 22096), (64, 22114), (65, 22126), (70, 22174), (71, 22198), (72, 22210), (73, 22231), (74, 22330), (77, 22378), (80, 22411), (81, 22453), (83, 22522), (85, 22591), (86, 22600), (87, 22603), (88, 22723), (89, 22735), (92, 22765), (96, 22810), (97, 22831), (98, 22867), (99, 22894), (102, 22921), (103, 22924), (105, 22933), (107, 22990), (113, 23119), (119, 23233), (120, 23254), (122, 23296), (123, 23356), (129, 23551), (130, 23566), (131, 23575), (134, 23599), (135, 23611), (136, 23614), (137, 23629), (139, 23662), (143, 23734), (144, 23740), (148, 23827), (150, 23863), (152, 23911), (154, 23938), (158, 24052), (160, 24085), (161, 24130), (163, 24181), (166, 24229), (167, 24238), (168, 24259), (172, 24340), (174, 24382), (179, 24460), (180, 24463), (185, 24529), (186, 24580), (189, 24649), (194, 24805), (197, 24844), (201, 24946), (202, 24958), (209, 25111), (210, 25114), (212, 25225), (214, 25243), (217, 25273), (218, 25315), (220, 25354), (222, 25405), (232, 25615), (235, 25693), (239, 25771), (241, 25849), (244, 25999), (245, 26005),

Gene: VasuNzinga_48 Start: 20096, Stop: 25618, Start Num: 1

Candidate Starts for VasuNzinga_48:

(Start: 1 @20096 has 17 MA's), (Start: 2 @20138 has 2 MA's), (3, 20282), (4, 20300), (5, 20312), (7, 20465), (14, 20624), (15, 20636), (17, 20669), (18, 20750), (19, 20753), (21, 20798), (22, 20819), (23, 20846), (25, 20888), (26, 20930), (31, 20990), (34, 21014), (36, 21050), (37, 21053), (40, 21134), (42, 21182), (43, 21212), (46, 21308), (48, 21392), (49, 21395), (53, 21443), (56, 21518), (59, 21566), (61, 21662), (62, 21680), (64, 21698), (65, 21710), (70, 21758), (71, 21782), (72, 21794), (73, 21815), (74, 21914), (77, 21962), (80, 21995), (81, 22037), (83, 22106), (85, 22175), (86, 22184), (87, 22187), (88, 22307), (89, 22319), (92, 22349), (96, 22394), (97, 22415), (98, 22451), (99, 22478), (102, 22505), (103, 22508), (105, 22517), (107, 22574), (119, 22817), (120, 22838), (122, 22880), (123, 22940), (129, 23135), (130, 23150), (131, 23159), (134, 23183), (135, 23195), (136, 23198), (137, 23213), (139, 23246), (144, 23324), (148, 23411), (150, 23447), (152, 23495), (154, 23522), (158, 23636), (160, 23669), (161, 23714), (163, 23765), (167, 23822), (168, 23843), (172, 23924), (174, 23966), (179, 24044), (180, 24047), (185, 24113), (186, 24164), (192, 24296), (194, 24392), (197, 24431), (201, 24533), (202, 24545), (209, 24698), (210, 24701), (212, 24812), (214, 24830), (218, 24902), (221, 24968), (228, 25064), (230, 25091), (232, 25172), (235, 25250), (239, 25328), (241, 25406), (244, 25556), (245, 25562),

Gene: Whitty_17 Start: 11932, Stop: 16017, Start Num: 33

Candidate Starts for Whitty_17:

(24, 11794), (Start: 33 @11932 has 6 MA's), (41, 12082), (44, 12175), (47, 12223), (53, 12322), (63, 12529), (68, 12562), (69, 12583), (72, 12619), (78, 12808), (79, 12817), (90, 13156), (111, 13471), (115, 13525), (118, 13567), (119, 13603), (126, 13819), (132, 13942), (142, 14056), (145, 14104), (151, 14206), (159, 14392), (164, 14518), (171, 14638), (177, 14746), (188, 14875), (190, 14932), (191, 14935), (198, 15112), (199, 15142), (205, 15229), (207, 15310), (208, 15313), (223, 15583), (224, 15607), (236, 15829), (237, 15868), (240, 15922),

Gene: ZenTime222_17 Start: 11932, Stop: 16017, Start Num: 33

Candidate Starts for ZenTime222_17:

(24, 11794), (Start: 33 @11932 has 6 MA's), (41, 12082), (44, 12175), (47, 12223), (53, 12322), (63, 12529), (68, 12562), (69, 12583), (72, 12619), (78, 12808), (79, 12817), (90, 13156), (111, 13471), (115, 13525), (118, 13567), (119, 13603), (126, 13819), (132, 13942), (142, 14056), (145, 14104), (151, 14206), (159, 14392), (164, 14518), (171, 14638), (177, 14746), (188, 14875), (190, 14932), (191, 14935), (198, 15112), (199, 15142), (205, 15229), (207, 15310), (208, 15313), (223, 15583), (224, 15607), (236, 15829), (237, 15868), (240, 15922),