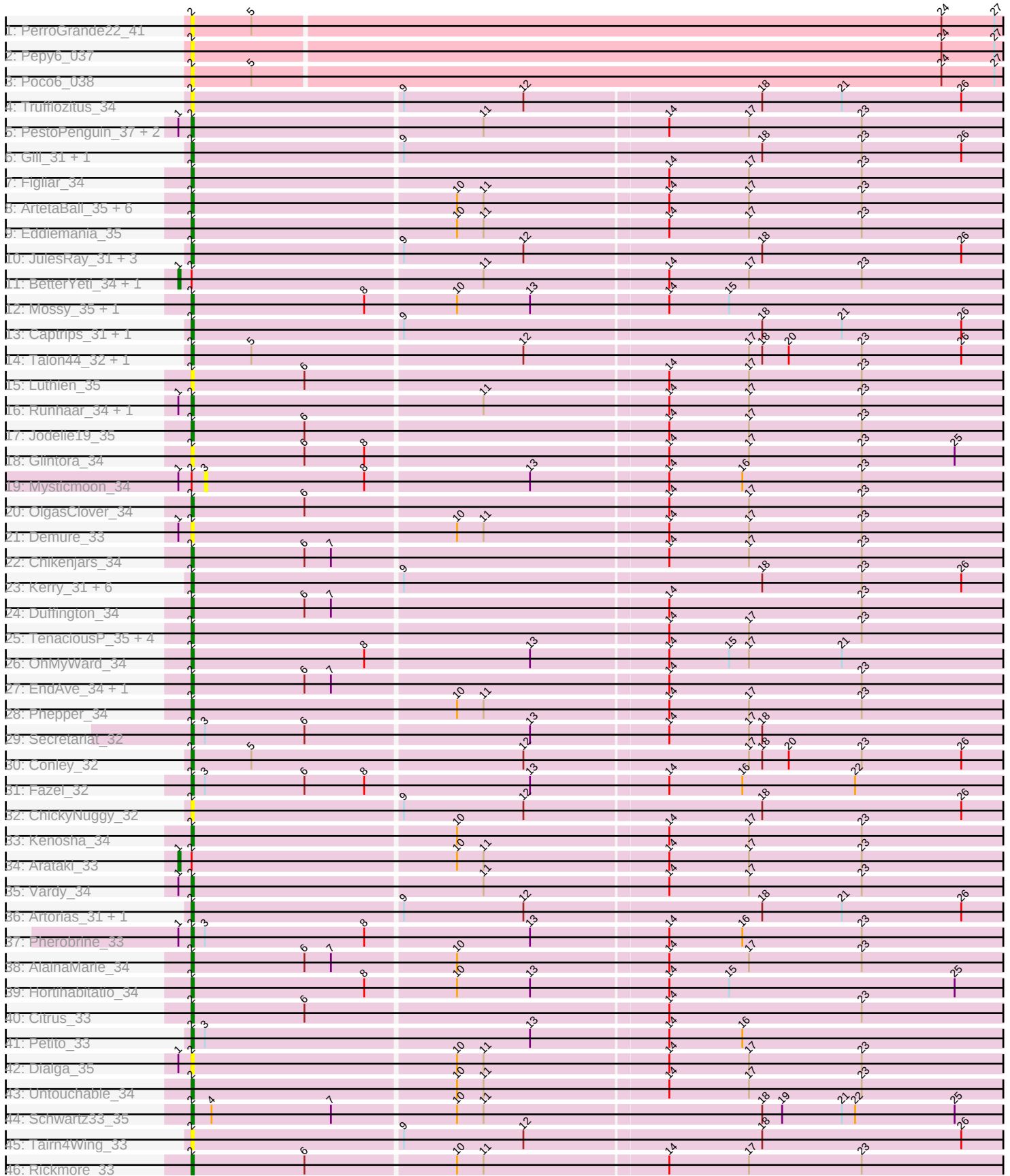


Zoomed Pham 276146



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 276146 Report

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

Pham number 276146 has 75 members, 19 are drafts.

Phages represented in each track:

- Track 1 : PerroGrande22_41
- Track 2 : Pepy6_037
- Track 3 : Poco6_038
- Track 4 : Trufflozitus_34
- Track 5 : PestoPenguin_37, Aloe25_37, Gusicorn_34
- Track 6 : Gill_31, Roney_31
- Track 7 : Figliar_34
- Track 8 : ArtetaBall_35, Madvan_34, Crocheter_34, Hydrus_35, CWormy_34, Nadmeg_35, Zeph_35
- Track 9 : Eddiemania_35
- Track 10 : JulesRay_31, Dancer_31, Bugg_32, Football_32
- Track 11 : BetterYeti_34, ShaggyRogers_34
- Track 12 : Mossy_35, Blanky_34
- Track 13 : Captrips_31, Avazak_31
- Track 14 : Talon44_32, Perkunas_33
- Track 15 : Luthien_35
- Track 16 : Runhaar_34, Burley_34
- Track 17 : Jodelie19_35
- Track 18 : Glintora_34
- Track 19 : Mysticmoon_34
- Track 20 : OlgasClover_34
- Track 21 : Demure_33
- Track 22 : Chickenjars_34
- Track 23 : Kerry_31, Capybara_31, NoPickles_31, Gravy_31, Tanis_31, Magel_32, Odesza_31
- Track 24 : Duffington_34
- Track 25 : TenaciousP_35, Tonaltzin_36, BluerMoon_34, Aflac_34, MajinBuu_34
- Track 26 : OhMyWard_34
- Track 27 : EndAve_34, Nithya_34
- Track 28 : Phepper_34
- Track 29 : Secretariat_32
- Track 30 : Conley_32
- Track 31 : Fazel_32
- Track 32 : ChickyNugget_32
- Track 33 : Kenosha_34
- Track 34 : Arataki_33
- Track 35 : Vardy_34

- Track 36 : Artorias_31, FortCran_31
- Track 37 : Pherobrine_33
- Track 38 : AlainaMarie_34
- Track 39 : Hortihabitatio_34
- Track 40 : Citrus_33
- Track 41 : Petito_33
- Track 42 : Dialga_35
- Track 43 : Untouchable_34
- Track 44 : Schwartz33_35
- Track 45 : Tairn4Wing_33
- Track 46 : Rickmore_33

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

The start number called the most often in the published annotations is 2, it was called in 53 of the 56 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Aflac_34, AlainaMarie_34, Aloe25_37, ArtetaBall_35, Artorias_31, Avazak_31, Blanky_34, BluerMoon_34, Bugg_32, Burley_34, CWormy_34, Captrips_31, Copybara_31, ChickyNuggy_32, Chickenjars_34, Citrus_33, Conley_32, Crocheter_34, Dancer_31, Demure_33, Dialga_35, Duffington_34, Eddiemania_35, EndAve_34, Fazel_32, Figliar_34, Football_32, FortCran_31, Gill_31, Glintora_34, Gravy_31, Gusicorn_34, Hortihabitatio_34, Hydrus_35, Jodelie19_35, JulesRay_31, Kenosha_34, Kerry_31, Luthien_35, Madvan_34, Magel_32, MajinBuu_34, Mossy_35, Nadmeg_35, Nithya_34, NoPickles_31, Odesza_31, OhMyWard_34, OlgasClover_34, Pepy6_037, Perkunas_33, PerroGrande22_41, PestoPenguin_37, Petito_33, Phepper_34, Pherobrine_33, Poco6_038, Rickmore_33, Roney_31, Runhaar_34, Schwartz33_35, Secretariat_32, Tairn4Wing_33, Talon44_32, Tanis_31, TenaciousP_35, Tonaltzin_36, Trufflozitus_34, Untouchable_34, Vardy_34, Zeph_35,

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

• Arataki_33, BetterYeti_34, Mysticmoon_34, ShaggyRogers_34,

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

•

Summary by start number:

Start 1:

- Found in 13 of 75 (17.3%) of genes in pham
- Manual Annotations of this start: 3 of 56
- Called 23.1% of time when present
- Phage (with cluster) where this start called: Arataki_33 (DJ), BetterYeti_34 (DJ), ShaggyRogers_34 (DJ),

Start 2:

- Found in 75 of 75 (100.0%) of genes in pham
- Manual Annotations of this start: 53 of 56

- Called 94.7% of time when present
- Phage (with cluster) where this start called: Aflac_34 (DJ), AlainaMarie_34 (DJ), Aloe25_37 (DJ), ArtetaBall_35 (DJ), Artorias_31 (DJ), Avazak_31 (DJ), Blanky_34 (DJ), BluerMoon_34 (DJ), Bugg_32 (DJ), Burley_34 (DJ), CWormy_34 (DJ), Captrips_31 (DJ), Capybara_31 (DJ), ChickyNuggy_32 (DJ), Chikenjars_34 (DJ), Citrus_33 (DJ), Conley_32 (DJ), Crocheter_34 (DJ), Dancer_31 (DJ), Demure_33 (DJ), Dialga_35 (DJ), Duffington_34 (DJ), Eddiemania_35 (DJ), EndAve_34 (DJ), Fazel_32 (DJ), Figliar_34 (DJ), Football_32 (DJ), FortCran_31 (DJ), Gill_31 (DJ), Glintora_34 (DJ), Gravy_31 (DJ), Gusicorn_34 (DJ), Hortihabitatio_34 (DJ), Hydrus_35 (DJ), Jodelie19_35 (DJ), JulesRay_31 (DJ), Kenosha_34 (DJ), Kerry_31 (DJ), Luthien_35 (DJ), Madvan_34 (DJ), Magel_32 (DJ), MajinBuu_34 (DJ), Mossy_35 (DJ), Nadmeg_35 (DJ), Nithya_34 (DJ), NoPickles_31 (DJ), Odesza_31 (DJ), OhMyWard_34 (DJ), OlgasClover_34 (DJ), Pepy6_037 (CC), Perkunas_33 (DJ), PerroGrande22_41 (CC), PestoPenguin_37 (DJ), Petito_33 (DJ), Phepper_34 (DJ), Pherobrine_33 (DJ), Poco6_038 (CC), Rickmore_33 (DJ), Roney_31 (DJ), Runhaar_34 (DJ), Schwartz33_35 (DJ), Secretariat_32 (DJ), Tairn4Wing_33 (DJ), Talon44_32 (DJ), Tanis_31 (DJ), TenaciousP_35 (DJ), Tonaltzin_36 (DJ), Trufflozitus_34 (DJ), Untouchable_34 (DJ), Vardy_34 (DJ), Zeph_35 (DJ),

Start 3:

- Found in 5 of 75 (6.7%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Mysticmoon_34 (DJ),

Summary by clusters:

There are 2 clusters represented in this pham: CC, DJ,

Info for manual annotations of cluster DJ:

- Start number 1 was manually annotated 3 times for cluster DJ.
- Start number 2 was manually annotated 53 times for cluster DJ.

Gene Information:

Gene: Aflac_34 Start: 29477, Stop: 30910, Start Num: 2

Candidate Starts for Aflac_34:

(Start: 2 @29477 has 53 MA's), (14, 29687), (17, 29723), (23, 29774), (29, 29855), (30, 29918), (32, 29927), (33, 29948), (35, 29960), (38, 30032), (40, 30044), (58, 30284), (59, 30293), (60, 30311), (64, 30335), (67, 30404), (81, 30578), (82, 30605), (85, 30623), (89, 30698), (94, 30767), (95, 30770), (98, 30803), (100, 30863),

Gene: AlainaMarie_34 Start: 29461, Stop: 30894, Start Num: 2

Candidate Starts for AlainaMarie_34:

(Start: 2 @29461 has 53 MA's), (6, 29512), (7, 29524), (10, 29578), (14, 29671), (17, 29707), (23, 29758), (29, 29839), (30, 29902), (32, 29911), (33, 29932), (35, 29944), (38, 30016), (58, 30268), (59, 30277), (60, 30295), (64, 30319), (67, 30388), (81, 30562), (82, 30589), (85, 30607), (89, 30682), (94, 30751), (95, 30754), (98, 30787),

Gene: Aloe25_37 Start: 29251, Stop: 30684, Start Num: 2

Candidate Starts for Aloe25_37:

(Start: 1 @29245 has 3 MA's), (Start: 2 @29251 has 53 MA's), (11, 29380), (14, 29461), (17, 29497), (23, 29548), (29, 29629), (30, 29692), (32, 29701), (33, 29722), (35, 29734), (38, 29806), (39, 29812), (40, 29818), (54, 30010), (58, 30058), (59, 30067), (64, 30109), (67, 30178), (69, 30199), (71, 30241), (72, 30244), (81, 30352), (82, 30379), (89, 30472), (94, 30541), (96, 30547), (98, 30577), (100, 30637),

Gene: Arataki_33 Start: 28564, Stop: 30003, Start Num: 1

Candidate Starts for Arataki_33:

(Start: 1 @28564 has 3 MA's), (Start: 2 @28570 has 53 MA's), (10, 28687), (11, 28699), (14, 28780), (17, 28816), (23, 28867), (29, 28948), (30, 29011), (33, 29041), (35, 29053), (38, 29125), (39, 29131), (40, 29137), (54, 29329), (58, 29377), (59, 29386), (64, 29428), (67, 29497), (71, 29560), (72, 29563), (81, 29671), (82, 29698), (85, 29716), (89, 29791), (94, 29860), (95, 29863), (96, 29866), (98, 29896), (100, 29956),

Gene: ArtetaBall_35 Start: 29604, Stop: 31037, Start Num: 2

Candidate Starts for ArtetaBall_35:

(Start: 2 @29604 has 53 MA's), (10, 29721), (11, 29733), (14, 29814), (17, 29850), (23, 29901), (29, 29982), (30, 30045), (32, 30054), (33, 30075), (35, 30087), (38, 30159), (39, 30165), (47, 30276), (48, 30279), (57, 30408), (59, 30420), (64, 30462), (67, 30531), (69, 30552), (77, 30672), (81, 30705), (82, 30732), (85, 30750), (89, 30825), (94, 30894), (95, 30897), (96, 30900), (98, 30930), (100, 30990),

Gene: Artorias_31 Start: 26462, Stop: 27889, Start Num: 2

Candidate Starts for Artorias_31:

(Start: 2 @26462 has 53 MA's), (9, 26555), (12, 26609), (18, 26714), (21, 26750), (26, 26804), (30, 26903), (32, 26912), (35, 26945), (36, 26960), (38, 27017), (42, 27056), (48, 27140), (57, 27269), (59, 27281), (65, 27335), (67, 27392), (74, 27491), (81, 27566), (82, 27593), (88, 27680), (89, 27686), (90, 27689), (93, 27752), (94, 27755), (95, 27758), (96, 27761), (98, 27791), (102, 27863),

Gene: Avazak_31 Start: 26469, Stop: 27896, Start Num: 2

Candidate Starts for Avazak_31:

(Start: 2 @26469 has 53 MA's), (9, 26562), (18, 26721), (21, 26757), (26, 26811), (30, 26910), (32, 26919), (35, 26952), (36, 26967), (38, 27024), (42, 27063), (48, 27147), (57, 27276), (59, 27288), (65, 27342), (67, 27399), (74, 27498), (81, 27573), (82, 27600), (88, 27687), (89, 27693), (90, 27696), (93, 27759), (94, 27762), (95, 27765), (96, 27768), (98, 27798), (102, 27870),

Gene: BetterYeti_34 Start: 29245, Stop: 30684, Start Num: 1

Candidate Starts for BetterYeti_34:

(Start: 1 @29245 has 3 MA's), (Start: 2 @29251 has 53 MA's), (11, 29380), (14, 29461), (17, 29497), (23, 29548), (29, 29629), (30, 29692), (32, 29701), (33, 29722), (35, 29734), (38, 29806), (39, 29812), (40, 29818), (54, 30010), (58, 30058), (59, 30067), (64, 30109), (67, 30178), (69, 30199), (71, 30241), (72, 30244), (81, 30352), (82, 30379), (89, 30472), (94, 30541), (96, 30547), (98, 30577), (100, 30637),

Gene: Blanky_34 Start: 30444, Stop: 31883, Start Num: 2

Candidate Starts for Blanky_34:

(Start: 2 @30444 has 53 MA's), (8, 30522), (10, 30561), (13, 30594), (14, 30654), (15, 30681), (30, 30885), (32, 30894), (36, 30942), (37, 30993), (38, 30999), (39, 31005), (46, 31107), (48, 31119), (49, 31125), (51, 31167), (54, 31203), (59, 31260), (69, 31392), (70, 31416), (71, 31434), (72, 31437), (81, 31545), (82, 31572), (89, 31665), (96, 31740), (97, 31758), (98, 31770),

Gene: BluerMoon_34 Start: 29474, Stop: 30907, Start Num: 2

Candidate Starts for BluerMoon_34:

(Start: 2 @29474 has 53 MA's), (14, 29684), (17, 29720), (23, 29771), (29, 29852), (30, 29915), (32, 29924), (33, 29945), (35, 29957), (38, 30029), (40, 30041), (58, 30281), (59, 30290), (60, 30308), (64,

30332), (67, 30401), (81, 30575), (82, 30602), (85, 30620), (89, 30695), (94, 30764), (95, 30767), (98, 30800), (100, 30860),

Gene: Bugg_32 Start: 26505, Stop: 27932, Start Num: 2

Candidate Starts for Bugg_32:

(Start: 2 @26505 has 53 MA's), (9, 26598), (12, 26652), (18, 26757), (26, 26847), (30, 26946), (35, 26988), (36, 27003), (37, 27054), (38, 27060), (42, 27099), (48, 27183), (57, 27312), (59, 27324), (65, 27378), (67, 27435), (74, 27534), (81, 27609), (82, 27636), (88, 27723), (89, 27729), (90, 27732), (93, 27795), (94, 27798), (95, 27801), (96, 27804), (98, 27834), (102, 27906),

Gene: Burley_34 Start: 29212, Stop: 30645, Start Num: 2

Candidate Starts for Burley_34:

(Start: 1 @29206 has 3 MA's), (Start: 2 @29212 has 53 MA's), (11, 29341), (14, 29422), (17, 29458), (23, 29509), (29, 29590), (30, 29653), (32, 29662), (33, 29683), (35, 29695), (38, 29767), (39, 29773), (47, 29884), (48, 29887), (54, 29971), (57, 30016), (60, 30046), (64, 30070), (67, 30139), (79, 30304), (81, 30313), (82, 30340), (89, 30433), (94, 30502), (95, 30505), (96, 30508), (98, 30538),

Gene: CWormy_34 Start: 28912, Stop: 30345, Start Num: 2

Candidate Starts for CWormy_34:

(Start: 2 @28912 has 53 MA's), (10, 29029), (11, 29041), (14, 29122), (17, 29158), (23, 29209), (29, 29290), (30, 29353), (32, 29362), (33, 29383), (35, 29395), (38, 29467), (39, 29473), (47, 29584), (48, 29587), (57, 29716), (59, 29728), (64, 29770), (67, 29839), (69, 29860), (77, 29980), (81, 30013), (82, 30040), (85, 30058), (89, 30133), (94, 30202), (95, 30205), (96, 30208), (98, 30238), (100, 30298),

Gene: Captrips_31 Start: 26498, Stop: 27925, Start Num: 2

Candidate Starts for Captrips_31:

(Start: 2 @26498 has 53 MA's), (9, 26591), (18, 26750), (21, 26786), (26, 26840), (30, 26939), (32, 26948), (35, 26981), (36, 26996), (38, 27053), (42, 27092), (48, 27176), (57, 27305), (59, 27317), (65, 27371), (67, 27428), (74, 27527), (81, 27602), (82, 27629), (88, 27716), (89, 27722), (90, 27725), (93, 27788), (94, 27791), (95, 27794), (96, 27797), (98, 27827), (102, 27899),

Gene: Capybara_31 Start: 26573, Stop: 28000, Start Num: 2

Candidate Starts for Capybara_31:

(Start: 2 @26573 has 53 MA's), (9, 26666), (18, 26825), (23, 26870), (26, 26915), (30, 27014), (32, 27023), (35, 27056), (36, 27071), (38, 27128), (42, 27167), (48, 27251), (57, 27380), (59, 27392), (61, 27416), (65, 27446), (81, 27677), (82, 27704), (86, 27749), (88, 27791), (89, 27797), (90, 27800), (93, 27863), (94, 27866), (95, 27869), (96, 27872), (98, 27902), (102, 27974),

Gene: ChickyNuggy_32 Start: 26210, Stop: 27637, Start Num: 2

Candidate Starts for ChickyNuggy_32:

(Start: 2 @26210 has 53 MA's), (9, 26303), (12, 26357), (18, 26462), (26, 26552), (29, 26588), (30, 26651), (32, 26660), (35, 26693), (36, 26708), (38, 26765), (42, 26804), (43, 26807), (48, 26888), (57, 27017), (59, 27029), (65, 27083), (67, 27140), (74, 27239), (81, 27314), (82, 27341), (88, 27428), (89, 27434), (90, 27437), (93, 27500), (94, 27503), (95, 27506), (96, 27509), (98, 27539), (102, 27611),

Gene: Chikenjars_34 Start: 29464, Stop: 30897, Start Num: 2

Candidate Starts for Chikenjars_34:

(Start: 2 @29464 has 53 MA's), (6, 29515), (7, 29527), (14, 29674), (17, 29710), (23, 29761), (29, 29842), (30, 29905), (32, 29914), (33, 29935), (35, 29947), (38, 30019), (58, 30271), (59, 30280), (60, 30298), (64, 30322), (67, 30391), (81, 30565), (82, 30592), (85, 30610), (89, 30685), (94, 30754), (95, 30757), (98, 30790), (100, 30850),

Gene: Citrus_33 Start: 29468, Stop: 30901, Start Num: 2

Candidate Starts for Citrus_33:

(Start: 2 @29468 has 53 MA's), (6, 29519), (14, 29678), (23, 29765), (29, 29846), (30, 29909), (32, 29918), (33, 29939), (35, 29951), (38, 30023), (58, 30275), (59, 30284), (60, 30302), (64, 30326), (67, 30395), (81, 30569), (82, 30596), (85, 30614), (89, 30689), (94, 30758), (95, 30761), (98, 30794),

Gene: Conley_32 Start: 27539, Stop: 28963, Start Num: 2

Candidate Starts for Conley_32:

(Start: 2 @27539 has 53 MA's), (5, 27566), (12, 27686), (17, 27785), (18, 27791), (20, 27803), (23, 27836), (26, 27881), (32, 27989), (35, 28022), (38, 28094), (41, 28121), (42, 28133), (48, 28217), (50, 28241), (58, 28349), (65, 28412), (67, 28469), (70, 28514), (74, 28568), (81, 28643), (82, 28670), (86, 28715), (89, 28763), (90, 28766), (93, 28829), (94, 28832), (95, 28835), (98, 28868), (100, 28928),

Gene: Crocheter_34 Start: 29604, Stop: 31037, Start Num: 2

Candidate Starts for Crocheter_34:

(Start: 2 @29604 has 53 MA's), (10, 29721), (11, 29733), (14, 29814), (17, 29850), (23, 29901), (29, 29982), (30, 30045), (32, 30054), (33, 30075), (35, 30087), (38, 30159), (39, 30165), (47, 30276), (48, 30279), (57, 30408), (59, 30420), (64, 30462), (67, 30531), (69, 30552), (77, 30672), (81, 30705), (82, 30732), (85, 30750), (89, 30825), (94, 30894), (95, 30897), (96, 30900), (98, 30930), (100, 30990),

Gene: Dancer_31 Start: 26198, Stop: 27625, Start Num: 2

Candidate Starts for Dancer_31:

(Start: 2 @26198 has 53 MA's), (9, 26291), (12, 26345), (18, 26450), (26, 26540), (30, 26639), (35, 26681), (36, 26696), (37, 26747), (38, 26753), (42, 26792), (48, 26876), (57, 27005), (59, 27017), (65, 27071), (67, 27128), (74, 27227), (81, 27302), (82, 27329), (88, 27416), (89, 27422), (90, 27425), (93, 27488), (94, 27491), (95, 27494), (96, 27497), (98, 27527), (102, 27599),

Gene: Demure_33 Start: 28570, Stop: 30003, Start Num: 2

Candidate Starts for Demure_33:

(Start: 1 @28564 has 3 MA's), (Start: 2 @28570 has 53 MA's), (10, 28687), (11, 28699), (14, 28780), (17, 28816), (23, 28867), (29, 28948), (30, 29011), (33, 29041), (35, 29053), (38, 29125), (39, 29131), (40, 29137), (54, 29329), (58, 29377), (59, 29386), (64, 29428), (67, 29497), (71, 29560), (72, 29563), (81, 29671), (82, 29698), (85, 29716), (89, 29791), (94, 29860), (95, 29863), (96, 29866), (98, 29896), (100, 29956),

Gene: Dialga_35 Start: 29626, Stop: 31059, Start Num: 2

Candidate Starts for Dialga_35:

(Start: 1 @29620 has 3 MA's), (Start: 2 @29626 has 53 MA's), (10, 29743), (11, 29755), (14, 29836), (17, 29872), (23, 29923), (29, 30004), (30, 30067), (33, 30097), (35, 30109), (38, 30181), (39, 30187), (40, 30193), (54, 30385), (58, 30433), (59, 30442), (64, 30484), (67, 30553), (71, 30616), (72, 30619), (81, 30727), (82, 30754), (89, 30847), (90, 30850), (96, 30922), (98, 30952),

Gene: Duffington_34 Start: 29452, Stop: 30885, Start Num: 2

Candidate Starts for Duffington_34:

(Start: 2 @29452 has 53 MA's), (6, 29503), (7, 29515), (14, 29662), (23, 29749), (29, 29830), (30, 29893), (32, 29902), (33, 29923), (35, 29935), (38, 30007), (58, 30259), (59, 30268), (60, 30286), (64, 30310), (67, 30379), (81, 30553), (82, 30580), (85, 30598), (89, 30673), (91, 30697), (94, 30742), (95, 30745), (98, 30778), (100, 30838),

Gene: Eddiemania_35 Start: 30113, Stop: 31546, Start Num: 2

Candidate Starts for Eddiemania_35:

(Start: 2 @30113 has 53 MA's), (10, 30230), (11, 30242), (14, 30323), (17, 30359), (23, 30410), (29, 30491), (30, 30554), (32, 30563), (33, 30584), (35, 30596), (38, 30668), (39, 30674), (47, 30785), (48, 30788), (54, 30872), (57, 30917), (59, 30929), (64, 30971), (67, 31040), (69, 31061), (81, 31214), (82,

31241), (89, 31334), (94, 31403), (95, 31406), (96, 31409), (98, 31439),

Gene: EndAve_34 Start: 29464, Stop: 30897, Start Num: 2

Candidate Starts for EndAve_34:

(Start: 2 @29464 has 53 MA's), (6, 29515), (7, 29527), (14, 29674), (23, 29761), (29, 29842), (30, 29905), (32, 29914), (33, 29935), (35, 29947), (38, 30019), (58, 30271), (59, 30280), (60, 30298), (64, 30322), (67, 30391), (81, 30565), (82, 30592), (85, 30610), (89, 30685), (94, 30754), (95, 30757), (98, 30790),

Gene: Fazel_32 Start: 28489, Stop: 29928, Start Num: 2

Candidate Starts for Fazel_32:

(Start: 2 @28489 has 53 MA's), (3, 28495), (6, 28540), (8, 28567), (13, 28639), (14, 28699), (16, 28732), (22, 28783), (28, 28852), (30, 28930), (32, 28939), (34, 28969), (35, 28972), (38, 29044), (39, 29050), (46, 29152), (49, 29170), (51, 29212), (54, 29248), (59, 29305), (69, 29437), (70, 29461), (71, 29479), (72, 29482), (81, 29590), (82, 29617), (86, 29662), (89, 29710), (96, 29785), (97, 29803), (98, 29815), (100, 29875),

Gene: Figliar_34 Start: 29462, Stop: 30895, Start Num: 2

Candidate Starts for Figliar_34:

(Start: 2 @29462 has 53 MA's), (14, 29672), (17, 29708), (23, 29759), (29, 29840), (30, 29903), (32, 29912), (33, 29933), (35, 29945), (38, 30017), (40, 30029), (58, 30269), (59, 30278), (60, 30296), (64, 30320), (67, 30389), (69, 30410), (81, 30563), (82, 30590), (85, 30608), (89, 30683), (94, 30752), (95, 30755), (98, 30788), (100, 30848),

Gene: Football_32 Start: 26210, Stop: 27637, Start Num: 2

Candidate Starts for Football_32:

(Start: 2 @26210 has 53 MA's), (9, 26303), (12, 26357), (18, 26462), (26, 26552), (30, 26651), (35, 26693), (36, 26708), (37, 26759), (38, 26765), (42, 26804), (48, 26888), (57, 27017), (59, 27029), (65, 27083), (67, 27140), (74, 27239), (81, 27314), (82, 27341), (88, 27428), (89, 27434), (90, 27437), (93, 27500), (94, 27503), (95, 27506), (96, 27509), (98, 27539), (102, 27611),

Gene: FortCran_31 Start: 26462, Stop: 27889, Start Num: 2

Candidate Starts for FortCran_31:

(Start: 2 @26462 has 53 MA's), (9, 26555), (12, 26609), (18, 26714), (21, 26750), (26, 26804), (30, 26903), (32, 26912), (35, 26945), (36, 26960), (38, 27017), (42, 27056), (48, 27140), (57, 27269), (59, 27281), (65, 27335), (67, 27392), (74, 27491), (81, 27566), (82, 27593), (88, 27680), (89, 27686), (90, 27689), (93, 27752), (94, 27755), (95, 27758), (96, 27761), (98, 27791), (102, 27863),

Gene: Gill_31 Start: 26585, Stop: 28012, Start Num: 2

Candidate Starts for Gill_31:

(Start: 2 @26585 has 53 MA's), (9, 26678), (18, 26837), (23, 26882), (26, 26927), (30, 27026), (32, 27035), (35, 27068), (36, 27083), (38, 27140), (42, 27179), (48, 27263), (57, 27392), (59, 27404), (65, 27458), (81, 27689), (82, 27716), (86, 27761), (88, 27803), (89, 27809), (90, 27812), (93, 27875), (94, 27878), (95, 27881), (96, 27884), (98, 27914), (102, 27986),

Gene: Glintora_34 Start: 29411, Stop: 30847, Start Num: 2

Candidate Starts for Glintora_34:

(Start: 2 @29411 has 53 MA's), (6, 29462), (8, 29489), (14, 29621), (17, 29657), (23, 29708), (25, 29750), (29, 29789), (30, 29852), (32, 29861), (33, 29882), (35, 29894), (38, 29966), (39, 29972), (40, 29978), (58, 30218), (59, 30227), (64, 30269), (67, 30338), (77, 30479), (81, 30512), (82, 30539), (89, 30632), (95, 30704), (96, 30707), (98, 30737),

Gene: Gravy_31 Start: 26585, Stop: 28012, Start Num: 2

Candidate Starts for Gravy_31:

(Start: 2 @26585 has 53 MA's), (9, 26678), (18, 26837), (23, 26882), (26, 26927), (30, 27026), (32, 27035), (35, 27068), (36, 27083), (38, 27140), (42, 27179), (48, 27263), (57, 27392), (59, 27404), (61, 27428), (65, 27458), (81, 27689), (82, 27716), (86, 27761), (88, 27803), (89, 27809), (90, 27812), (93, 27875), (94, 27878), (95, 27881), (96, 27884), (98, 27914), (102, 27986),

Gene: Gusicorn_34 Start: 29251, Stop: 30684, Start Num: 2

Candidate Starts for Gusicorn_34:

(Start: 1 @29245 has 3 MA's), (Start: 2 @29251 has 53 MA's), (11, 29380), (14, 29461), (17, 29497), (23, 29548), (29, 29629), (30, 29692), (32, 29701), (33, 29722), (35, 29734), (38, 29806), (39, 29812), (40, 29818), (54, 30010), (58, 30058), (59, 30067), (64, 30109), (67, 30178), (69, 30199), (71, 30241), (72, 30244), (81, 30352), (82, 30379), (89, 30472), (94, 30541), (96, 30547), (98, 30577), (100, 30637),

Gene: Hortihabitatio_34 Start: 28881, Stop: 30320, Start Num: 2

Candidate Starts for Hortihabitatio_34:

(Start: 2 @28881 has 53 MA's), (8, 28959), (10, 28998), (13, 29031), (14, 29091), (15, 29118), (25, 29220), (28, 29244), (30, 29322), (32, 29331), (36, 29379), (37, 29430), (38, 29436), (46, 29544), (49, 29562), (51, 29604), (54, 29640), (59, 29697), (67, 29808), (70, 29853), (71, 29871), (72, 29874), (81, 29982), (82, 30009), (89, 30102), (96, 30177), (97, 30195), (98, 30207), (100, 30267),

Gene: Hydrus_35 Start: 29979, Stop: 31412, Start Num: 2

Candidate Starts for Hydrus_35:

(Start: 2 @29979 has 53 MA's), (10, 30096), (11, 30108), (14, 30189), (17, 30225), (23, 30276), (29, 30357), (30, 30420), (32, 30429), (33, 30450), (35, 30462), (38, 30534), (39, 30540), (47, 30651), (48, 30654), (57, 30783), (59, 30795), (64, 30837), (67, 30906), (69, 30927), (77, 31047), (81, 31080), (82, 31107), (85, 31125), (89, 31200), (94, 31269), (95, 31272), (96, 31275), (98, 31305), (100, 31365),

Gene: Jodelie19_35 Start: 30901, Stop: 32334, Start Num: 2

Candidate Starts for Jodelie19_35:

(Start: 2 @30901 has 53 MA's), (6, 30952), (14, 31111), (17, 31147), (23, 31198), (29, 31279), (30, 31342), (32, 31351), (33, 31372), (35, 31384), (38, 31456), (40, 31468), (58, 31708), (59, 31717), (60, 31735), (64, 31759), (67, 31828), (81, 32002), (82, 32029), (89, 32122), (94, 32191), (95, 32194), (98, 32227), (100, 32287),

Gene: JulesRay_31 Start: 26492, Stop: 27919, Start Num: 2

Candidate Starts for JulesRay_31:

(Start: 2 @26492 has 53 MA's), (9, 26585), (12, 26639), (18, 26744), (26, 26834), (30, 26933), (35, 26975), (36, 26990), (37, 27041), (38, 27047), (42, 27086), (48, 27170), (57, 27299), (59, 27311), (65, 27365), (67, 27422), (74, 27521), (81, 27596), (82, 27623), (88, 27710), (89, 27716), (90, 27719), (93, 27782), (94, 27785), (95, 27788), (96, 27791), (98, 27821), (102, 27893),

Gene: Kenosha_34 Start: 30014, Stop: 31447, Start Num: 2

Candidate Starts for Kenosha_34:

(Start: 2 @30014 has 53 MA's), (10, 30131), (14, 30224), (17, 30260), (23, 30311), (29, 30392), (30, 30455), (32, 30464), (33, 30485), (35, 30497), (38, 30569), (39, 30575), (47, 30686), (48, 30689), (57, 30818), (59, 30830), (64, 30872), (67, 30941), (69, 30962), (81, 31115), (82, 31142), (85, 31160), (89, 31235), (94, 31304), (95, 31307), (96, 31310), (98, 31340), (100, 31400),

Gene: Kerry_31 Start: 26585, Stop: 28012, Start Num: 2

Candidate Starts for Kerry_31:

(Start: 2 @26585 has 53 MA's), (9, 26678), (18, 26837), (23, 26882), (26, 26927), (30, 27026), (32, 27035), (35, 27068), (36, 27083), (38, 27140), (42, 27179), (48, 27263), (57, 27392), (59, 27404), (61, 27428), (65, 27458), (81, 27689), (82, 27716), (86, 27761), (88, 27803), (89, 27809), (90, 27812), (93,

27875), (94, 27878), (95, 27881), (96, 27884), (98, 27914), (102, 27986),

Gene: Luthien_35 Start: 29462, Stop: 30895, Start Num: 2

Candidate Starts for Luthien_35:

(Start: 2 @29462 has 53 MA's), (6, 29513), (14, 29672), (17, 29708), (23, 29759), (29, 29840), (30, 29903), (32, 29912), (33, 29933), (35, 29945), (38, 30017), (58, 30269), (59, 30278), (60, 30296), (64, 30320), (67, 30389), (81, 30563), (82, 30590), (85, 30608), (89, 30683), (94, 30752), (95, 30755), (98, 30788),

Gene: Madvan_34 Start: 29246, Stop: 30679, Start Num: 2

Candidate Starts for Madvan_34:

(Start: 2 @29246 has 53 MA's), (10, 29363), (11, 29375), (14, 29456), (17, 29492), (23, 29543), (29, 29624), (30, 29687), (32, 29696), (33, 29717), (35, 29729), (38, 29801), (39, 29807), (47, 29918), (48, 29921), (57, 30050), (59, 30062), (64, 30104), (67, 30173), (69, 30194), (77, 30314), (81, 30347), (82, 30374), (85, 30392), (89, 30467), (94, 30536), (95, 30539), (96, 30542), (98, 30572), (100, 30632),

Gene: Magel_32 Start: 26493, Stop: 27920, Start Num: 2

Candidate Starts for Magel_32:

(Start: 2 @26493 has 53 MA's), (9, 26586), (18, 26745), (23, 26790), (26, 26835), (30, 26934), (32, 26943), (35, 26976), (36, 26991), (38, 27048), (42, 27087), (48, 27171), (57, 27300), (59, 27312), (61, 27336), (65, 27366), (81, 27597), (82, 27624), (86, 27669), (88, 27711), (89, 27717), (90, 27720), (93, 27783), (94, 27786), (95, 27789), (96, 27792), (98, 27822), (102, 27894),

Gene: MajinBuu_34 Start: 29472, Stop: 30905, Start Num: 2

Candidate Starts for MajinBuu_34:

(Start: 2 @29472 has 53 MA's), (14, 29682), (17, 29718), (23, 29769), (29, 29850), (30, 29913), (32, 29922), (33, 29943), (35, 29955), (38, 30027), (40, 30039), (58, 30279), (59, 30288), (60, 30306), (64, 30330), (67, 30399), (81, 30573), (82, 30600), (85, 30618), (89, 30693), (94, 30762), (95, 30765), (98, 30798), (100, 30858),

Gene: Mossy_35 Start: 30659, Stop: 32098, Start Num: 2

Candidate Starts for Mossy_35:

(Start: 2 @30659 has 53 MA's), (8, 30737), (10, 30776), (13, 30809), (14, 30869), (15, 30896), (30, 31100), (32, 31109), (36, 31157), (37, 31208), (38, 31214), (39, 31220), (46, 31322), (48, 31334), (49, 31340), (51, 31382), (54, 31418), (59, 31475), (69, 31607), (70, 31631), (71, 31649), (72, 31652), (81, 31760), (82, 31787), (89, 31880), (96, 31955), (97, 31973), (98, 31985),

Gene: Mysticmoon_34 Start: 29286, Stop: 30719, Start Num: 3

Candidate Starts for Mysticmoon_34:

(Start: 1 @29274 has 3 MA's), (Start: 2 @29280 has 53 MA's), (3, 29286), (8, 29358), (13, 29430), (14, 29490), (16, 29523), (23, 29577), (28, 29643), (30, 29721), (38, 29835), (39, 29841), (46, 29943), (49, 29961), (51, 30003), (54, 30039), (59, 30096), (69, 30228), (70, 30252), (71, 30270), (72, 30273), (81, 30381), (82, 30408), (86, 30453), (89, 30501), (96, 30576), (97, 30594), (98, 30606),

Gene: Nadmeg_35 Start: 30677, Stop: 32110, Start Num: 2

Candidate Starts for Nadmeg_35:

(Start: 2 @30677 has 53 MA's), (10, 30794), (11, 30806), (14, 30887), (17, 30923), (23, 30974), (29, 31055), (30, 31118), (32, 31127), (33, 31148), (35, 31160), (38, 31232), (39, 31238), (47, 31349), (48, 31352), (57, 31481), (59, 31493), (64, 31535), (67, 31604), (69, 31625), (77, 31745), (81, 31778), (82, 31805), (85, 31823), (89, 31898), (94, 31967), (95, 31970), (96, 31973), (98, 32003), (100, 32063),

Gene: Nithya_34 Start: 29461, Stop: 30894, Start Num: 2

Candidate Starts for Nithya_34:

(Start: 2 @29461 has 53 MA's), (6, 29512), (7, 29524), (14, 29671), (23, 29758), (29, 29839), (30, 29902), (32, 29911), (33, 29932), (35, 29944), (38, 30016), (58, 30268), (59, 30277), (60, 30295), (64, 30319), (67, 30388), (81, 30562), (82, 30589), (85, 30607), (89, 30682), (94, 30751), (95, 30754), (98, 30787),

Gene: NoPickles_31 Start: 26217, Stop: 27644, Start Num: 2

Candidate Starts for NoPickles_31:

(Start: 2 @26217 has 53 MA's), (9, 26310), (18, 26469), (23, 26514), (26, 26559), (30, 26658), (32, 26667), (35, 26700), (36, 26715), (38, 26772), (42, 26811), (48, 26895), (57, 27024), (59, 27036), (61, 27060), (65, 27090), (81, 27321), (82, 27348), (86, 27393), (88, 27435), (89, 27441), (90, 27444), (93, 27507), (94, 27510), (95, 27513), (96, 27516), (98, 27546), (102, 27618),

Gene: Odesza_31 Start: 26585, Stop: 28012, Start Num: 2

Candidate Starts for Odesza_31:

(Start: 2 @26585 has 53 MA's), (9, 26678), (18, 26837), (23, 26882), (26, 26927), (30, 27026), (32, 27035), (35, 27068), (36, 27083), (38, 27140), (42, 27179), (48, 27263), (57, 27392), (59, 27404), (61, 27428), (65, 27458), (81, 27689), (82, 27716), (86, 27761), (88, 27803), (89, 27809), (90, 27812), (93, 27875), (94, 27878), (95, 27881), (96, 27884), (98, 27914), (102, 27986),

Gene: OhMyWard_34 Start: 29999, Stop: 31438, Start Num: 2

Candidate Starts for OhMyWard_34:

(Start: 2 @29999 has 53 MA's), (8, 30077), (13, 30149), (14, 30209), (15, 30236), (17, 30245), (21, 30287), (30, 30440), (31, 30446), (32, 30449), (36, 30497), (37, 30548), (38, 30554), (39, 30560), (46, 30662), (48, 30674), (49, 30680), (51, 30722), (54, 30758), (59, 30815), (69, 30947), (70, 30971), (71, 30989), (72, 30992), (81, 31100), (82, 31127), (89, 31220), (96, 31295), (97, 31313), (98, 31325),

Gene: OlgasClover_34 Start: 30185, Stop: 31618, Start Num: 2

Candidate Starts for OlgasClover_34:

(Start: 2 @30185 has 53 MA's), (6, 30236), (14, 30395), (17, 30431), (23, 30482), (29, 30563), (30, 30626), (32, 30635), (33, 30656), (35, 30668), (38, 30740), (40, 30752), (58, 30992), (59, 31001), (60, 31019), (64, 31043), (67, 31112), (69, 31133), (81, 31286), (82, 31313), (85, 31331), (89, 31406), (94, 31475), (95, 31478), (98, 31511), (100, 31571),

Gene: Pepy6_037 Start: 36697, Stop: 38091, Start Num: 2

Candidate Starts for Pepy6_037:

(Start: 2 @36697 has 53 MA's), (24, 37033), (27, 37057), (30, 37141), (31, 37147), (35, 37183), (41, 37279), (48, 37375), (49, 37381), (53, 37450), (55, 37483), (56, 37486), (57, 37507), (64, 37564), (66, 37606), (68, 37636), (71, 37684), (75, 37726), (80, 37774), (81, 37777), (83, 37804), (86, 37843), (89, 37891), (90, 37894), (92, 37936), (96, 37966), (98, 37996), (99, 37999),

Gene: Perkunas_33 Start: 26981, Stop: 28405, Start Num: 2

Candidate Starts for Perkunas_33:

(Start: 2 @26981 has 53 MA's), (5, 27008), (12, 27128), (17, 27227), (18, 27233), (20, 27245), (23, 27278), (26, 27323), (32, 27431), (35, 27464), (38, 27536), (41, 27563), (42, 27575), (48, 27659), (58, 27791), (65, 27854), (67, 27911), (74, 28010), (81, 28085), (82, 28112), (86, 28157), (89, 28205), (90, 28208), (93, 28271), (94, 28274), (95, 28277), (98, 28310), (100, 28370),

Gene: PerroGrande22_41 Start: 38050, Stop: 39444, Start Num: 2

Candidate Starts for PerroGrande22_41:

(Start: 2 @38050 has 53 MA's), (5, 38077), (24, 38386), (27, 38410), (30, 38494), (31, 38500), (33, 38524), (35, 38536), (36, 38551), (46, 38716), (48, 38728), (49, 38734), (52, 38785), (56, 38839), (57, 38860), (62, 38905), (64, 38917), (66, 38959), (69, 39007), (71, 39037), (75, 39079), (76, 39094), (80, 39127), (81, 39130), (83, 39157), (86, 39196), (89, 39244), (92, 39289), (96, 39319), (98, 39349),

Gene: PestoPenguin_37 Start: 29251, Stop: 30684, Start Num: 2

Candidate Starts for PestoPenguin_37:

(Start: 1 @29245 has 3 MA's), (Start: 2 @29251 has 53 MA's), (11, 29380), (14, 29461), (17, 29497), (23, 29548), (29, 29629), (30, 29692), (32, 29701), (33, 29722), (35, 29734), (38, 29806), (39, 29812), (40, 29818), (54, 30010), (58, 30058), (59, 30067), (64, 30109), (67, 30178), (69, 30199), (71, 30241), (72, 30244), (81, 30352), (82, 30379), (89, 30472), (94, 30541), (96, 30547), (98, 30577), (100, 30637),

Gene: Petito_33 Start: 27745, Stop: 29172, Start Num: 2

Candidate Starts for Petito_33:

(Start: 2 @27745 has 53 MA's), (3, 27751), (13, 27895), (14, 27955), (16, 27988), (30, 28186), (32, 28195), (33, 28216), (34, 28225), (38, 28300), (44, 28387), (46, 28408), (51, 28468), (57, 28549), (59, 28561), (64, 28603), (67, 28672), (73, 28750), (74, 28771), (81, 28846), (89, 28966), (94, 29035), (95, 29038), (96, 29041), (98, 29071),

Gene: Phepper_34 Start: 29244, Stop: 30677, Start Num: 2

Candidate Starts for Phepper_34:

(Start: 2 @29244 has 53 MA's), (10, 29361), (11, 29373), (14, 29454), (17, 29490), (23, 29541), (29, 29622), (30, 29685), (32, 29694), (33, 29715), (35, 29727), (38, 29799), (39, 29805), (47, 29916), (48, 29919), (54, 30003), (57, 30048), (60, 30078), (64, 30102), (67, 30171), (79, 30336), (81, 30345), (82, 30372), (89, 30465), (94, 30534), (95, 30537), (96, 30540), (98, 30570), (100, 30630),

Gene: Pherobrine_33 Start: 29278, Stop: 30717, Start Num: 2

Candidate Starts for Pherobrine_33:

(Start: 1 @29272 has 3 MA's), (Start: 2 @29278 has 53 MA's), (3, 29284), (8, 29356), (13, 29428), (14, 29488), (16, 29521), (23, 29575), (28, 29641), (30, 29719), (38, 29833), (39, 29839), (46, 29941), (49, 29959), (51, 30001), (54, 30037), (59, 30094), (69, 30226), (71, 30268), (72, 30271), (81, 30379), (82, 30406), (86, 30451), (89, 30499), (96, 30574), (97, 30592), (98, 30604),

Gene: Poco6_038 Start: 38719, Stop: 40113, Start Num: 2

Candidate Starts for Poco6_038:

(Start: 2 @38719 has 53 MA's), (5, 38746), (24, 39055), (27, 39079), (30, 39163), (33, 39193), (35, 39205), (36, 39220), (42, 39313), (48, 39397), (49, 39403), (53, 39472), (55, 39505), (56, 39508), (57, 39529), (58, 39532), (62, 39574), (64, 39586), (66, 39628), (69, 39676), (71, 39706), (75, 39748), (78, 39775), (80, 39796), (81, 39799), (83, 39826), (86, 39865), (89, 39913), (92, 39958), (96, 39988), (98, 40018),

Gene: Rickmore_33 Start: 27895, Stop: 29328, Start Num: 2

Candidate Starts for Rickmore_33:

(Start: 2 @27895 has 53 MA's), (6, 27946), (10, 28012), (11, 28024), (14, 28105), (17, 28141), (23, 28192), (29, 28273), (30, 28336), (32, 28345), (33, 28366), (35, 28378), (38, 28450), (40, 28462), (48, 28570), (54, 28654), (57, 28699), (64, 28753), (67, 28822), (81, 28996), (84, 29035), (89, 29116), (91, 29140), (95, 29188), (98, 29221), (100, 29281), (101, 29284),

Gene: Roney_31 Start: 26585, Stop: 28012, Start Num: 2

Candidate Starts for Roney_31:

(Start: 2 @26585 has 53 MA's), (9, 26678), (18, 26837), (23, 26882), (26, 26927), (30, 27026), (32, 27035), (35, 27068), (36, 27083), (38, 27140), (42, 27179), (48, 27263), (57, 27392), (59, 27404), (65, 27458), (81, 27689), (82, 27716), (86, 27761), (88, 27803), (89, 27809), (90, 27812), (93, 27875), (94, 27878), (95, 27881), (96, 27884), (98, 27914), (102, 27986),

Gene: Runhaar_34 Start: 29247, Stop: 30680, Start Num: 2

Candidate Starts for Runhaar_34:

(Start: 1 @29241 has 3 MA's), (Start: 2 @29247 has 53 MA's), (11, 29376), (14, 29457), (17, 29493), (23, 29544), (29, 29625), (30, 29688), (32, 29697), (33, 29718), (35, 29730), (38, 29802), (39, 29808), (47, 29919), (48, 29922), (54, 30006), (57, 30051), (60, 30081), (64, 30105), (67, 30174), (79, 30339), (81, 30348), (82, 30375), (89, 30468), (94, 30537), (95, 30540), (96, 30543), (98, 30573),

Gene: Schwartz33_35 Start: 29578, Stop: 31017, Start Num: 2

Candidate Starts for Schwartz33_35:

(Start: 2 @29578 has 53 MA's), (4, 29587), (7, 29641), (10, 29695), (11, 29707), (18, 29830), (19, 29839), (21, 29866), (22, 29872), (25, 29917), (28, 29941), (30, 30019), (33, 30049), (36, 30076), (37, 30127), (38, 30133), (40, 30145), (48, 30253), (49, 30259), (57, 30382), (58, 30385), (59, 30394), (64, 30436), (70, 30550), (71, 30568), (72, 30571), (74, 30604), (77, 30646), (81, 30679), (82, 30706), (87, 30766), (89, 30799), (98, 30904),

Gene: Secretariat_32 Start: 28312, Stop: 29748, Start Num: 2

Candidate Starts for Secretariat_32:

(Start: 2 @28312 has 53 MA's), (3, 28318), (6, 28363), (13, 28462), (14, 28522), (17, 28558), (18, 28564), (28, 28675), (32, 28762), (33, 28783), (35, 28795), (36, 28810), (38, 28867), (45, 28966), (46, 28975), (54, 29071), (57, 29116), (59, 29128), (64, 29170), (71, 29302), (72, 29305), (77, 29380), (81, 29413), (89, 29533), (96, 29608), (97, 29626), (98, 29638), (100, 29698),

Gene: ShaggyRogers_34 Start: 29244, Stop: 30683, Start Num: 1

Candidate Starts for ShaggyRogers_34:

(Start: 1 @29244 has 3 MA's), (Start: 2 @29250 has 53 MA's), (11, 29379), (14, 29460), (17, 29496), (23, 29547), (29, 29628), (30, 29691), (32, 29700), (33, 29721), (35, 29733), (38, 29805), (39, 29811), (40, 29817), (54, 30009), (58, 30057), (59, 30066), (64, 30108), (67, 30177), (69, 30198), (71, 30240), (72, 30243), (81, 30351), (82, 30378), (89, 30471), (94, 30540), (96, 30546), (98, 30576), (100, 30636),

Gene: Tairn4Wing_33 Start: 26490, Stop: 27917, Start Num: 2

Candidate Starts for Tairn4Wing_33:

(Start: 2 @26490 has 53 MA's), (9, 26583), (12, 26637), (18, 26742), (26, 26832), (30, 26931), (35, 26973), (36, 26988), (37, 27039), (38, 27045), (42, 27084), (48, 27168), (57, 27297), (59, 27309), (63, 27348), (65, 27363), (67, 27420), (74, 27519), (81, 27594), (82, 27621), (88, 27708), (89, 27714), (90, 27717), (93, 27780), (94, 27783), (95, 27786), (96, 27789), (98, 27819), (102, 27891),

Gene: Talon44_32 Start: 26654, Stop: 28078, Start Num: 2

Candidate Starts for Talon44_32:

(Start: 2 @26654 has 53 MA's), (5, 26681), (12, 26801), (17, 26900), (18, 26906), (20, 26918), (23, 26951), (26, 26996), (32, 27104), (35, 27137), (38, 27209), (41, 27236), (42, 27248), (48, 27332), (58, 27464), (65, 27527), (67, 27584), (74, 27683), (81, 27758), (82, 27785), (86, 27830), (89, 27878), (90, 27881), (93, 27944), (94, 27947), (95, 27950), (98, 27983), (100, 28043),

Gene: Tanis_31 Start: 26435, Stop: 27862, Start Num: 2

Candidate Starts for Tanis_31:

(Start: 2 @26435 has 53 MA's), (9, 26528), (18, 26687), (23, 26732), (26, 26777), (30, 26876), (32, 26885), (35, 26918), (36, 26933), (38, 26990), (42, 27029), (48, 27113), (57, 27242), (59, 27254), (61, 27278), (65, 27308), (81, 27539), (82, 27566), (86, 27611), (88, 27653), (89, 27659), (90, 27662), (93, 27725), (94, 27728), (95, 27731), (96, 27734), (98, 27764), (102, 27836),

Gene: TenaciousP_35 Start: 30901, Stop: 32334, Start Num: 2

Candidate Starts for TenaciousP_35:

(Start: 2 @30901 has 53 MA's), (14, 31111), (17, 31147), (23, 31198), (29, 31279), (30, 31342), (32, 31351), (33, 31372), (35, 31384), (38, 31456), (40, 31468), (58, 31708), (59, 31717), (60, 31735), (64, 31759), (67, 31828), (81, 32002), (82, 32029), (85, 32047), (89, 32122), (94, 32191), (95, 32194), (98,

32227), (100, 32287),

Gene: Tonaltzin_36 Start: 29471, Stop: 30904, Start Num: 2

Candidate Starts for Tonaltzin_36:

(Start: 2 @29471 has 53 MA's), (14, 29681), (17, 29717), (23, 29768), (29, 29849), (30, 29912), (32, 29921), (33, 29942), (35, 29954), (38, 30026), (40, 30038), (58, 30278), (59, 30287), (60, 30305), (64, 30329), (67, 30398), (81, 30572), (82, 30599), (85, 30617), (89, 30692), (94, 30761), (95, 30764), (98, 30797), (100, 30857),

Gene: Trufflozitus_34 Start: 26491, Stop: 27918, Start Num: 2

Candidate Starts for Trufflozitus_34:

(Start: 2 @26491 has 53 MA's), (9, 26584), (12, 26638), (18, 26743), (21, 26779), (26, 26833), (29, 26869), (30, 26932), (32, 26941), (35, 26974), (36, 26989), (38, 27046), (48, 27169), (57, 27298), (59, 27310), (65, 27364), (67, 27421), (74, 27520), (81, 27595), (82, 27622), (88, 27709), (89, 27715), (90, 27718), (93, 27781), (94, 27784), (95, 27787), (96, 27790), (98, 27820), (102, 27892),

Gene: Untouchable_34 Start: 29603, Stop: 31036, Start Num: 2

Candidate Starts for Untouchable_34:

(Start: 2 @29603 has 53 MA's), (10, 29720), (11, 29732), (14, 29813), (17, 29849), (23, 29900), (29, 29981), (30, 30044), (32, 30053), (33, 30074), (35, 30086), (38, 30158), (39, 30164), (47, 30275), (48, 30278), (57, 30407), (59, 30419), (64, 30461), (67, 30530), (69, 30551), (81, 30704), (82, 30731), (85, 30749), (89, 30824), (94, 30893), (95, 30896), (96, 30899), (98, 30929), (100, 30989),

Gene: Vardy_34 Start: 29212, Stop: 30645, Start Num: 2

Candidate Starts for Vardy_34:

(Start: 1 @29206 has 3 MA's), (Start: 2 @29212 has 53 MA's), (11, 29341), (14, 29422), (17, 29458), (23, 29509), (29, 29590), (30, 29653), (32, 29662), (33, 29683), (35, 29695), (38, 29767), (39, 29773), (47, 29884), (48, 29887), (54, 29971), (57, 30016), (60, 30046), (64, 30070), (67, 30139), (79, 30304), (81, 30313), (82, 30340), (89, 30433), (94, 30502), (95, 30505), (96, 30508), (98, 30538), (100, 30598),

Gene: Zeph_35 Start: 29961, Stop: 31394, Start Num: 2

Candidate Starts for Zeph_35:

(Start: 2 @29961 has 53 MA's), (10, 30078), (11, 30090), (14, 30171), (17, 30207), (23, 30258), (29, 30339), (30, 30402), (32, 30411), (33, 30432), (35, 30444), (38, 30516), (39, 30522), (47, 30633), (48, 30636), (57, 30765), (59, 30777), (64, 30819), (67, 30888), (69, 30909), (77, 31029), (81, 31062), (82, 31089), (85, 31107), (89, 31182), (94, 31251), (95, 31254), (96, 31257), (98, 31287), (100, 31347),