

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 192342 Report

This analysis was run 11/02/24 on database version 579.

Pham number 192342 has 138 members, 23 are drafts.

Phages represented in each track:

- Track 1 : Elsa_24, NapoleonB_23, Arcadia_24, Dynamite_23, Nason_24
- Track 2 : Xenomorph_22
- Track 3 : Mooshroom_23, KeaneyLin_22, GoCrazy_22, Kardesai_22
- Track 4 : Benllo_22, BenitoAntonio_24, Circum_24, JEGGS_23, Cheesy_24, Mudcat_23, Heisenberger_23
- Track 5 : Hankly_22
- Track 6 : Correa_23
- Track 7 : Tribby_24
- Track 8 : Inked_30
- Track 9 : Brunswick_28
- Track 10 : MiniBagel_28, CapnMurica_28, Tenno_29
- Track 11 : CastorTray_30
- Track 12 : Synopsis_27, Trustiboi_29
- Track 13 : ElephantMan_28, Niktson_28
- Track 14 : AreFloNak_28, Tatanka_28, Nivinsha_28
- Track 15 : Teacup_28
- Track 16 : ScienceWizSam_30
- Track 17 : Issa_28, Nightmare_29
- Track 18 : Gordon_28
- Track 19 : Breylor17_29, Darby_28
- Track 20 : DevitoJr_28
- Track 21 : LilHuddy_29
- Track 22 : Tokki_29
- Track 23 : Shepard_29
- Track 24 : Phaby_29
- Track 25 : Giantsbane_29
- Track 26 : Ingrid_28, Loretta_28
- Track 27 : MediumFry_26
- Track 28 : Caterpillar_26
- Track 29 : Makai_28
- Track 30 : Truckee_27
- Track 31 : Lewando_31
- Track 32 : TrixiePhattel_29
- Track 33 : Argan_27
- Track 34 : Renaldo_33
- Track 35 : Phaila_27, Zeina_28
- Track 36 : BarbieDoll_31

- Track 37 : Leathea_28
- Track 38 : Uzumaki_28, GantcherGoblin_27
- Track 39 : Linda_25, ProfFrink_25, Stayer_25, StarLord_25, Salk_25, Raunak_25, Egad_25, BronxBay_25, Shiba_25, MrAaronian_25, Michelle_25, Sloopyjoe_25, Djungelskog_25
- Track 40 : DoctorPepper_25
- Track 41 : Sporto_26
- Track 42 : Indigenous_25, Maya_25, Jaylociraptor_25, Meibysrarus_25, Hoshi_25, FidgetOrca_25, TonyStarch_25, Namu_25, Spectropatronm_25, TieDye_24, IceWarrior_25
- Track 43 : TaidaOne_25, CherryBlossom_25
- Track 44 : FrodoSwaggins_25, Popy_25, Soshi_25, DrGrey_25
- Track 45 : Rima_25, Esketit_25, OlympicHelado_25
- Track 46 : Madamato_25
- Track 47 : GirlPower_24
- Track 48 : RavenPuff_20
- Track 49 : Scap1_21
- Track 50 : PherryCruz_20
- Track 51 : HotFries_20
- Track 52 : Annihilus_21, Moozy_21
- Track 53 : GoblinVoyage_21, Doxi13_21
- Track 54 : Bilo_21
- Track 55 : RosaAsantewaa_21
- Track 56 : SheRa_21
- Track 57 : LibertyBell_23
- Track 58 : CricKo_23, Thiqqums_23, FromIndy_24, Regigigas_24, Rainydai_23
- Track 59 : Miek_23, SendItCS_22
- Track 60 : Bing_26
- Track 61 : Kardashian_24
- Track 62 : ClubPenguin_24
- Track 63 : Count_32
- Track 64 : DizzyRudy_26
- Track 65 : Camille_26
- Track 66 : Damascus_26
- Track 67 : Jazzy4900_26, Sunny4976_25
- Track 68 : Arzan_24
- Track 69 : Paella_42, Qui_42, Elver_41
- Track 70 : Eevee_28, JoyLin_28, Yotsuba_28
- Track 71 : Daddyjeff_26
- Track 72 : Pippin15_27
- Track 73 : Serenabean_26
- Track 74 : AddiRose_27

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

The start number called the most often in the published annotations is 4, it was called in 87 of the 115 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AddiRose_27, Annihilus_21, AreFloNak_28, Argan_27, Arzan_24, BarbieDoll_31, Bilo_21, Bing_26, Breylor17_29, BronxBay_25, Brunswick_28, CapnMurica_28, CastorTray_30, Caterpillar_26, CherryBlossom_25, ClubPenguin_24, Count_32, CricKo_23, Daddyjeff_26, Damascus_26, Darby_28, DevitoJr_28, DizzyRudy_26, Djungelskog_25, DoctorPepper_25, Doxi13_21, DrGrey_25, Eevee_28, Egad_25, Elver_41, FidgetOrca_25, FrodoSwaggins_25, FromIndy_24, GantcherGoblin_27, Giantsbane_29, GirlPower_24, GoblinVoyage_21, Gordon_28, Hoshi_25, HotFries_20, IceWarrior_25, Indigenous_25, Ingrid_28, Inked_30, Issa_28, Jaylociraptor_25, Jazzy4900_26, JoyLin_28, Kardashian_24, Leatheia_28, Lewando_31, LibertyBell_23, LilHuddy_29, Linda_25, Loretta_28, Madamato_25, Makai_28, Maya_25, MediumFry_26, Meibysrarus_25, Michelle_25, Miek_23, MiniBagel_28, Moozy_21, MrAaronian_25, Namo_25, Nightmare_29, Nivinsha_28, Paella_42, Phaby_29, Phaila_27, Pippin15_27, Popy_25, ProfFrink_25, Qui_42, Rainydai_23, Raunak_25, RavenPuff_20, Regigigas_24, Renaldo_33, RosaAsantewaa_21, Salk_25, Scap1_21, ScienceWizSam_30, SendItCS_22, Serenabean_26, SheRa_21, Shepard_29, Shiba_25, Sloopyjoe_25, Soshi_25, Spectropatronm_25, Sporto_26, StarLord_25, Stayer_25, Sunny4976_25, TaidaOne_25, Tatanka_28, Teacup_28, Tenno_29, Thiqqums_23, TieDye_24, Tokki_29, TonyStarch_25, Truckee_27, Uzumaki_28, Yotsuba_28, Zeina_28,

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

- Camille_26, ElephantMan_28, Esketit_25, Niktson_28, OlympicHelado_25, PherryCruz_20, Rima_25, Synepsis_27, TrixiePhattel_29, Trustiboi_29,

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

- Arcadia_24, BenitoAntonio_24, Benllo_22, Cheesy_24, Circum_24, Correa_23, Dynamite_23, Elsa_24, GoCrazy_22, Hankly_22, Heisenberger_23, JEGGS_23, Kardesai_22, KeaneyLin_22, Mooshroom_23, Mudcat_23, NapoleonB_23, Nason_24, Tribby_24, Xenomorph_22,

Summary by start number:

Start 2:

- Found in 20 of 138 (14.5%) of genes in pham
- Manual Annotations of this start: 19 of 115
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia_24 (AM), BenitoAntonio_24 (AM), Benllo_22 (AM), Cheesy_24 (AM), Circum_24 (AM), Correa_23 (AM), Dynamite_23 (AM), Elsa_24 (AM), GoCrazy_22 (AM), Hankly_22 (AM), Heisenberger_23 (AM), JEGGS_23 (AM), Kardesai_22 (AM), KeaneyLin_22 (AM), Mooshroom_23 (AM), Mudcat_23 (AM), NapoleonB_23 (AM), Nason_24 (AM), Tribby_24 (AM), Xenomorph_22 (AM),

Start 3:

- Found in 68 of 138 (49.3%) of genes in pham
- Manual Annotations of this start: 9 of 115
- Called 13.2% of time when present
- Phage (with cluster) where this start called: Camille_26 (EL), ElephantMan_28 (AU1), Esketit_25 (BI1), Niktson_28 (AU1), OlympicHelado_25 (BI1), PherryCruz_20 (BI2), Rima_25 (BI1), Synepsis_27 (AU1), Trustiboi_29 (AU1),

Start 4:

- Found in 118 of 138 (85.5%) of genes in pham

- Manual Annotations of this start: 87 of 115
- Called 91.5% of time when present
- Phage (with cluster) where this start called: AddiRose_27 (JA), Annihilus_21 (BI2), AreFloNak_28 (AU1), Argan_27 (AU6), Arzan_24 (FI), BarbieDoll_31 (AU6), Bilo_21 (BI2), Bing_26 (BI5), Breylor17_29 (AU1), BronxBay_25 (AW), Brunswick_28 (AU1), CapnMurica_28 (AU1), CastorTray_30 (AU1), Caterpillar_26 (AU4), CherryBlossom_25 (BI1), ClubPenguin_24 (BI7), Count_32 (EL), CricKo_23 (BI4), Daddyjeff_26 (JA), Damascus_26 (EL), Darby_28 (AU1), DevitoJr_28 (AU1), DizzyRudy_26 (EL), Djungelskog_25 (AW), DoctorPepper_25 (AW), Doxi13_21 (BI2), DrGrey_25 (BI1), Eevee_28 (JA), Egad_25 (AW), Elver_41 (FK), FidgetOrca_25 (BI1), FrodoSwaggins_25 (BI1), FromIndy_24 (BI4), GantcherGoblin_27 (AU6), Giantsbane_29 (AU2), GirlPower_24 (BI1), GoblinVoyage_21 (BI2), Gordon_28 (AU1), Hoshi_25 (BI1), HotFries_20 (BI2), IceWarrior_25 (BI1), Indigenous_25 (BI1), Ingrid_28 (AU3), Inked_30 (AU), Issa_28 (AU1), Jaylociraptor_25 (BI1), Jazzy4900_26 (FI), JoyLin_28 (JA), Kardashian_24 (BI6), Leathea_28 (AU6), Lewando_31 (AU6), LibertyBell_23 (BI3), LilHuddy_29 (AU2), Linda_25 (AW), Loretta_28 (AU3), Madamato_25 (BI1), Makai_28 (AU5), Maya_25 (BI1), MediumFry_26 (AU4), Meibysrarus_25 (BI1), Michelle_25 (AW), Miek_23 (BI4), MiniBagel_28 (AU1), Moozy_21 (BI2), MrAaronian_25 (AW), Namu_25 (BI1), Nightmare_29 (AU1), Nivinsha_28 (AU1), Paella_42 (FK), Phaby_29 (AU2), Phaila_27 (AU6), Pippin15_27 (JA), Popy_25 (BI1), ProfFrink_25 (AW), Qui_42 (FK), Rainydai_23 (BI4), Raunak_25 (AW), RavenPuff_20 (BI2), Regigigas_24 (BI4), Renaldo_33 (AU6), RosaAsantewaa_21 (BI2), Salk_25 (AW), Scap1_21 (BI2), ScienceWizSam_30 (AU1), SendItCS_22 (BI4), Serenabean_26 (JA), SheRa_21 (BI2), Shepard_29 (AU2), Shiba_25 (AW), Sloopyjoe_25 (AW), Soshi_25 (BI1), Spectropatronm_25 (BI1), Sporto_26 (AW), StarLord_25 (AW), Stayer_25 (AW), Sunny4976_25 (FI), TaidaOne_25 (BI1), Tatanka_28 (AU1), Teacup_28 (AU1), Tenno_29 (AU1), Thiqqums_23 (BI4), TieDye_24 (BI1), Tokki_29 (AU2), TonyStarch_25 (BI1), Truckee_27 (AU5), Uzumaki_28 (AU6), Yotsuba_28 (JA), Zeina_28 (AU6),

Start 28:

- Found in 124 of 138 (89.9%) of genes in pham
- No Manual Annotations of this start.
- Called 0.8% of time when present
- Phage (with cluster) where this start called: TrixiePhattel_29 (AU6),

Summary by clusters:

There are 20 clusters represented in this pham: EL, AU, FK, AM, BI3, AU1, AU3, AU2, AU5, AU4, AW, AU6, BI6, FI, BI4, BI5, BI2, JA, BI7, BI1,

Info for manual annotations of cluster AM:

- Start number 2 was manually annotated 19 times for cluster AM.

Info for manual annotations of cluster AU:

- Start number 4 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 3 was manually annotated 4 times for cluster AU1.
- Start number 4 was manually annotated 13 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 4 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 4 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 4 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 4 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 4 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster AW:

- Start number 4 was manually annotated 14 times for cluster AW.

Info for manual annotations of cluster BI1:

- Start number 3 was manually annotated 3 times for cluster BI1.
- Start number 4 was manually annotated 19 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 3 was manually annotated 1 time for cluster BI2.
- Start number 4 was manually annotated 10 times for cluster BI2.

Info for manual annotations of cluster BI3:

- Start number 4 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:

- Start number 4 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI5:

- Start number 4 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster BI6:

- Start number 4 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 4 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster EL:

- Start number 3 was manually annotated 1 time for cluster EL.
- Start number 4 was manually annotated 3 times for cluster EL.

Info for manual annotations of cluster FK:

- Start number 4 was manually annotated 2 times for cluster FK.

Gene Information:

Gene: AddiRose_27 Start: 23970, Stop: 25037, Start Num: 4

Candidate Starts for AddiRose_27:

(Start: 4 @23970 has 87 MA's), (9, 24012), (22, 24123), (25, 24132), (28, 24156), (40, 24237), (78, 24450), (83, 24480), (86, 24495), (93, 24534), (149, 24954), (156, 25026),

Gene: Annihilus_21 Start: 19555, Stop: 20718, Start Num: 4

Candidate Starts for Annihilus_21:

(Start: 3 @19552 has 9 MA's), (Start: 4 @19555 has 87 MA's), (13, 19660), (19, 19693), (26, 19720), (28, 19741), (29, 19744), (30, 19747), (35, 19789), (39, 19825), (41, 19837), (58, 19945), (82, 20095), (84, 20107), (92, 20152), (101, 20221), (114, 20317), (125, 20359), (134, 20422), (141, 20500), (144, 20530), (148, 20557), (149, 20563), (150, 20581),

Gene: Arcadia_24 Start: 23000, Stop: 24061, Start Num: 2

Candidate Starts for Arcadia_24:

(Start: 2 @23000 has 19 MA's), (6, 23030), (9, 23057), (28, 23201), (78, 23486), (100, 23615), (101, 23624), (135, 23843), (136, 23864),

Gene: AreFloNak_28 Start: 25471, Stop: 26631, Start Num: 4

Candidate Starts for AreFloNak_28:

(Start: 3 @25468 has 9 MA's), (Start: 4 @25471 has 87 MA's), (5, 25477), (10, 25522), (19, 25609), (20, 25612), (28, 25657), (37, 25729), (48, 25777), (59, 25864), (67, 25906), (75, 25963), (81, 26002), (100, 26128), (103, 26155), (108, 26191), (125, 26275), (131, 26326), (137, 26368), (144, 26449), (148, 26479), (154, 26545),

Gene: Argan_27 Start: 24421, Stop: 25584, Start Num: 4

Candidate Starts for Argan_27:

(Start: 4 @24421 has 87 MA's), (13, 24526), (15, 24532), (28, 24607), (30, 24613), (35, 24652), (60, 24817), (63, 24838), (82, 24958), (94, 25033), (98, 25057), (108, 25138), (109, 25156), (120, 25192), (123, 25216), (124, 25219), (143, 25390), (144, 25396), (148, 25426),

Gene: Arzan_24 Start: 23144, Stop: 24307, Start Num: 4

Candidate Starts for Arzan_24:

(Start: 3 @23141 has 9 MA's), (Start: 4 @23144 has 87 MA's), (5, 23150), (7, 23171), (13, 23249), (14, 23252), (28, 23330), (35, 23378), (37, 23402), (47, 23444), (101, 23810), (103, 23828), (105, 23840), (110, 23885), (111, 23888), (123, 23942), (124, 23945), (133, 24002), (148, 24146),

Gene: BarbieDoll_31 Start: 26396, Stop: 27559, Start Num: 4

Candidate Starts for BarbieDoll_31:

(1, 26288), (Start: 4 @26396 has 87 MA's), (15, 26507), (19, 26534), (27, 26579), (28, 26582), (35, 26627), (54, 26756), (101, 27059), (104, 27080), (131, 27248), (143, 27365), (144, 27371), (148, 27401), (150, 27425), (154, 27467),

Gene: BenitoAntonio_24 Start: 22616, Stop: 23677, Start Num: 2

Candidate Starts for BenitoAntonio_24:

(Start: 2 @22616 has 19 MA's), (6, 22646), (9, 22673), (28, 22817), (78, 23102), (100, 23231), (101, 23240), (103, 23258), (135, 23459), (136, 23480),

Gene: Benllo_22 Start: 22900, Stop: 23961, Start Num: 2

Candidate Starts for Benllo_22:

(Start: 2 @22900 has 19 MA's), (6, 22930), (9, 22957), (28, 23101), (78, 23386), (100, 23515), (101, 23524), (103, 23542), (135, 23743), (136, 23764),

Gene: Bilo_21 Start: 20046, Stop: 21209, Start Num: 4

Candidate Starts for Bilo_21:

(Start: 3 @20043 has 9 MA's), (Start: 4 @20046 has 87 MA's), (13, 20151), (19, 20184), (21, 20193), (26, 20211), (27, 20229), (28, 20232), (29, 20235), (30, 20238), (35, 20280), (39, 20316), (41, 20328), (58, 20436), (82, 20586), (84, 20598), (92, 20643), (101, 20712), (114, 20808), (125, 20850), (134, 20913), (141, 20991), (144, 21021), (148, 21048), (149, 21054), (150, 21072),

Gene: Bing_26 Start: 22320, Stop: 23492, Start Num: 4

Candidate Starts for Bing_26:

(Start: 3 @22317 has 9 MA's), (Start: 4 @22320 has 87 MA's), (23, 22476), (26, 22485), (28, 22506), (30, 22512), (32, 22521), (35, 22554), (62, 22728), (68, 22758), (70, 22776), (73, 22800), (101, 22986), (111, 23064), (113, 23076), (114, 23082), (129, 23160), (144, 23295), (148, 23325), (150, 23349), (159, 23430),

Gene: Breylor17_29 Start: 26077, Stop: 27237, Start Num: 4

Candidate Starts for Breylor17_29:

(Start: 3 @26074 has 9 MA's), (Start: 4 @26077 has 87 MA's), (5, 26083), (10, 26128), (19, 26215), (20, 26218), (28, 26263), (37, 26335), (48, 26383), (59, 26470), (67, 26512), (75, 26569), (81, 26608), (100, 26734), (103, 26761), (108, 26797), (131, 26932), (137, 26974), (144, 27055), (148, 27085), (154, 27151),

Gene: BronxBay_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for BronxBay_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: Brunswick_28 Start: 25543, Stop: 26703, Start Num: 4

Candidate Starts for Brunswick_28:

(Start: 3 @25540 has 9 MA's), (Start: 4 @25543 has 87 MA's), (5, 25549), (19, 25681), (20, 25684), (28, 25729), (38, 25810), (59, 25936), (75, 26035), (81, 26074), (100, 26200), (103, 26227), (125, 26347), (131, 26398), (137, 26440), (140, 26488), (144, 26521), (148, 26551), (150, 26575), (154, 26617),

Gene: Camille_26 Start: 21265, Stop: 22443, Start Num: 3

Candidate Starts for Camille_26:

(Start: 3 @21265 has 9 MA's), (Start: 4 @21268 has 87 MA's), (5, 21274), (27, 21451), (28, 21454), (35, 21502), (37, 21526), (39, 21541), (46, 21568), (56, 21652), (57, 21655), (76, 21769), (102, 21949), (118, 22042), (122, 22069), (131, 22129), (144, 22252), (148, 22282),

Gene: CapnMurica_28 Start: 26632, Stop: 27792, Start Num: 4

Candidate Starts for CapnMurica_28:

(Start: 3 @26629 has 9 MA's), (Start: 4 @26632 has 87 MA's), (5, 26638), (19, 26770), (20, 26773), (28, 26818), (38, 26899), (58, 27022), (59, 27025), (67, 27067), (75, 27124), (81, 27163), (100, 27289), (103, 27316), (125, 27436), (131, 27487), (137, 27529), (144, 27610), (148, 27640), (154, 27706),

Gene: CastorTray_30 Start: 25935, Stop: 27095, Start Num: 4

Candidate Starts for CastorTray_30:

(Start: 3 @25932 has 9 MA's), (Start: 4 @25935 has 87 MA's), (5, 25941), (10, 25986), (19, 26073), (20, 26076), (28, 26121), (37, 26193), (48, 26241), (59, 26328), (67, 26370), (71, 26397), (75, 26427), (81, 26466), (100, 26592), (103, 26619), (131, 26790), (137, 26832), (144, 26913), (148, 26943), (154, 27009),

Gene: Caterpillar_26 Start: 24715, Stop: 25878, Start Num: 4

Candidate Starts for Caterpillar_26:

(Start: 3 @24712 has 9 MA's), (Start: 4 @24715 has 87 MA's), (5, 24721), (28, 24901), (37, 24973), (38, 24982), (48, 25021), (59, 25108), (72, 25186), (78, 25228), (81, 25246), (100, 25372), (103, 25399), (106, 25426), (130, 25567), (131, 25570), (140, 25660), (144, 25693), (148, 25723), (150, 25747),

Gene: Cheesy_24 Start: 22715, Stop: 23776, Start Num: 2

Candidate Starts for Cheesy_24:

(Start: 2 @22715 has 19 MA's), (6, 22745), (9, 22772), (28, 22916), (78, 23201), (100, 23330), (101, 23339), (103, 23357), (135, 23558), (136, 23579),

Gene: CherryBlossom_25 Start: 22462, Stop: 23634, Start Num: 4

Candidate Starts for CherryBlossom_25:

(Start: 3 @22459 has 9 MA's), (Start: 4 @22462 has 87 MA's), (13, 22567), (26, 22627), (28, 22648), (30, 22654), (35, 22696), (52, 22813), (61, 22864), (68, 22900), (73, 22942), (84, 23014), (85, 23017), (91, 23053), (112, 23209), (113, 23218), (124, 23263), (125, 23266), (144, 23437), (148, 23467), (149, 23473), (150, 23491), (154, 23533), (159, 23572),

Gene: Circum_24 Start: 22722, Stop: 23783, Start Num: 2

Candidate Starts for Circum_24:

(Start: 2 @22722 has 19 MA's), (6, 22752), (9, 22779), (28, 22923), (78, 23208), (100, 23337), (101, 23346), (103, 23364), (135, 23565), (136, 23586),

Gene: ClubPenguin_24 Start: 22046, Stop: 23248, Start Num: 4

Candidate Starts for ClubPenguin_24:

(Start: 3 @22043 has 9 MA's), (Start: 4 @22046 has 87 MA's), (9, 22088), (24, 22205), (27, 22229), (28, 22232), (44, 22337), (52, 22421), (62, 22478), (68, 22508), (88, 22640), (98, 22709), (100, 22727), (101, 22736), (104, 22757), (111, 22814), (131, 22925), (142, 23039), (145, 23057), (148, 23078), (149, 23084), (150, 23102),

Gene: Correa_23 Start: 22230, Stop: 23291, Start Num: 2

Candidate Starts for Correa_23:

(Start: 2 @22230 has 19 MA's), (6, 22260), (9, 22287), (28, 22431), (38, 22509), (55, 22581), (78, 22716), (100, 22845), (101, 22854), (103, 22872), (135, 23073), (136, 23094),

Gene: Count_32 Start: 28485, Stop: 29882, Start Num: 4

Candidate Starts for Count_32:

(Start: 4 @28485 has 87 MA's), (8, 28521), (11, 28548), (18, 28614), (26, 28650), (27, 28668), (28, 28671), (31, 28683), (32, 28686), (63, 28905), (98, 29124), (106, 29196), (119, 29259), (124, 29286), (125, 29289), (155, 29562), (157, 29574), (161, 29616), (162, 29691), (163, 29697), (164, 29727), (165, 29793), (166, 29853),

Gene: CricKo_23 Start: 21363, Stop: 22529, Start Num: 4

Candidate Starts for CricKo_23:

(Start: 4 @21363 has 87 MA's), (12, 21447), (15, 21474), (26, 21528), (28, 21549), (30, 21555), (35, 21597), (37, 21621), (62, 21771), (64, 21786), (68, 21801), (73, 21843), (74, 21849), (84, 21915), (111, 22107), (114, 22125), (132, 22218), (148, 22368), (149, 22374), (150, 22392),

Gene: Daddyjeff_26 Start: 23942, Stop: 25009, Start Num: 4

Candidate Starts for Daddyjeff_26:

(Start: 4 @23942 has 87 MA's), (15, 24053), (22, 24095), (25, 24104), (28, 24128), (40, 24209), (66, 24341), (78, 24422), (86, 24467), (93, 24506), (149, 24926), (156, 24998),

Gene: Damascus_26 Start: 21950, Stop: 23347, Start Num: 4

Candidate Starts for Damascus_26:

(Start: 3 @21947 has 9 MA's), (Start: 4 @21950 has 87 MA's), (5, 21956), (14, 22058), (28, 22136), (42, 22238), (56, 22334), (57, 22337), (58, 22346), (95, 22580), (107, 22673), (116, 22760), (117, 22808), (118, 22820), (121, 22835), (127, 22895), (139, 23096), (144, 23156), (148, 23186),

Gene: Darby_28 Start: 25381, Stop: 26541, Start Num: 4

Candidate Starts for Darby_28:

(Start: 3 @25378 has 9 MA's), (Start: 4 @25381 has 87 MA's), (5, 25387), (10, 25432), (19, 25519), (20, 25522), (28, 25567), (37, 25639), (48, 25687), (59, 25774), (67, 25816), (75, 25873), (81, 25912), (100, 26038), (103, 26065), (108, 26101), (131, 26236), (137, 26278), (144, 26359), (148, 26389), (154, 26455),

Gene: DevitoJr_28 Start: 25552, Stop: 26712, Start Num: 4

Candidate Starts for DevitoJr_28:

(Start: 3 @25549 has 9 MA's), (Start: 4 @25552 has 87 MA's), (5, 25558), (10, 25603), (19, 25690), (20, 25693), (26, 25717), (28, 25738), (38, 25819), (67, 25987), (75, 26044), (81, 26083), (90, 26131), (100, 26209), (103, 26236), (125, 26356), (131, 26407), (137, 26449), (144, 26530), (148, 26560), (154, 26626),

Gene: DizzyRudy_26 Start: 21879, Stop: 23276, Start Num: 4

Candidate Starts for DizzyRudy_26:

(Start: 3 @21876 has 9 MA's), (Start: 4 @21879 has 87 MA's), (5, 21885), (14, 21987), (28, 22065), (42, 22167), (56, 22263), (57, 22266), (95, 22509), (107, 22602), (115, 22653), (116, 22689), (117, 22737), (118, 22749), (121, 22764), (127, 22824), (139, 23025), (144, 23085), (148, 23115),

Gene: Djungelskog_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for Djungelskog_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: DoctorPepper_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for DoctorPepper_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: Doxi13_21 Start: 19527, Stop: 20690, Start Num: 4

Candidate Starts for Doxi13_21:

(Start: 3 @19524 has 9 MA's), (Start: 4 @19527 has 87 MA's), (13, 19632), (19, 19665), (26, 19692), (27, 19710), (28, 19713), (29, 19716), (30, 19719), (35, 19761), (39, 19797), (41, 19809), (58, 19917), (82, 20067), (92, 20124), (101, 20193), (114, 20289), (125, 20331), (134, 20394), (141, 20472), (144, 20502), (148, 20529), (149, 20535), (150, 20553),

Gene: DrGrey_25 Start: 22958, Stop: 24130, Start Num: 4

Candidate Starts for DrGrey_25:

(Start: 3 @22955 has 9 MA's), (Start: 4 @22958 has 87 MA's), (13, 23063), (23, 23114), (26, 23123), (28, 23144), (30, 23150), (32, 23159), (35, 23192), (61, 23360), (62, 23366), (68, 23396), (73, 23438),

(74, 23444), (84, 23510), (91, 23549), (97, 23588), (112, 23705), (113, 23714), (124, 23759), (125, 23762), (141, 23903), (144, 23933), (148, 23963), (149, 23969), (150, 23987), (159, 24068),

Gene: Dynamite_23 Start: 22523, Stop: 23584, Start Num: 2

Candidate Starts for Dynamite_23:

(Start: 2 @22523 has 19 MA's), (6, 22553), (9, 22580), (28, 22724), (78, 23009), (100, 23138), (101, 23147), (135, 23366), (136, 23387),

Gene: Eevee_28 Start: 25982, Stop: 27049, Start Num: 4

Candidate Starts for Eevee_28:

(Start: 4 @25982 has 87 MA's), (15, 26093), (20, 26123), (25, 26144), (28, 26168), (40, 26252), (51, 26300), (63, 26375), (65, 26381), (77, 26450), (112, 26693), (125, 26750), (130, 26804), (133, 26816), (151, 26987),

Gene: Egad_25 Start: 22609, Stop: 23775, Start Num: 4

Candidate Starts for Egad_25:

(Start: 4 @22609 has 87 MA's), (5, 22615), (13, 22714), (15, 22720), (25, 22771), (35, 22843), (63, 23029), (97, 23239), (98, 23248), (106, 23320), (110, 23350), (112, 23356), (128, 23428), (134, 23479), (143, 23581), (144, 23587), (146, 23605), (147, 23614), (148, 23617), (150, 23641), (152, 23677),

Gene: ElephantMan_28 Start: 26080, Stop: 27243, Start Num: 3

Candidate Starts for ElephantMan_28:

(Start: 3 @26080 has 9 MA's), (Start: 4 @26083 has 87 MA's), (5, 26089), (17, 26200), (19, 26221), (20, 26224), (28, 26269), (38, 26350), (59, 26476), (67, 26518), (75, 26575), (81, 26614), (103, 26767), (125, 26887), (131, 26938), (137, 26980), (140, 27028), (144, 27061), (148, 27091), (150, 27115), (154, 27157),

Gene: Elsa_24 Start: 23000, Stop: 24061, Start Num: 2

Candidate Starts for Elsa_24:

(Start: 2 @23000 has 19 MA's), (6, 23030), (9, 23057), (28, 23201), (78, 23486), (100, 23615), (101, 23624), (135, 23843), (136, 23864),

Gene: Elver_41 Start: 34608, Stop: 35774, Start Num: 4

Candidate Starts for Elver_41:

(Start: 3 @34605 has 9 MA's), (Start: 4 @34608 has 87 MA's), (5, 34614), (14, 34716), (28, 34794), (34, 34821), (36, 34851), (50, 34938), (77, 35109), (101, 35274), (143, 35577), (148, 35613), (152, 35673),

Gene: Esketiit_25 Start: 22442, Stop: 23617, Start Num: 3

Candidate Starts for Esketiit_25:

(Start: 3 @22442 has 9 MA's), (Start: 4 @22445 has 87 MA's), (13, 22550), (26, 22610), (28, 22631), (30, 22637), (35, 22679), (52, 22796), (61, 22847), (68, 22883), (73, 22925), (84, 22997), (91, 23036), (112, 23192), (113, 23201), (124, 23246), (125, 23249), (144, 23420), (148, 23450), (149, 23456), (150, 23474), (154, 23516), (159, 23555),

Gene: FidgetOrca_25 Start: 22451, Stop: 23623, Start Num: 4

Candidate Starts for FidgetOrca_25:

(Start: 3 @22448 has 9 MA's), (Start: 4 @22451 has 87 MA's), (13, 22556), (26, 22616), (28, 22637), (30, 22643), (35, 22685), (52, 22802), (61, 22853), (68, 22889), (73, 22931), (84, 23003), (91, 23042), (112, 23198), (113, 23207), (124, 23252), (125, 23255), (144, 23426), (148, 23456), (149, 23462), (150, 23480), (154, 23522), (159, 23561),

Gene: FrodoSwaggins_25 Start: 22958, Stop: 24130, Start Num: 4

Candidate Starts for FrodoSwaggins_25:

(Start: 3 @22955 has 9 MA's), (Start: 4 @22958 has 87 MA's), (13, 23063), (23, 23114), (26, 23123), (28, 23144), (30, 23150), (32, 23159), (35, 23192), (61, 23360), (62, 23366), (68, 23396), (73, 23438), (74, 23444), (84, 23510), (91, 23549), (97, 23588), (112, 23705), (113, 23714), (124, 23759), (125, 23762), (141, 23903), (144, 23933), (148, 23963), (149, 23969), (150, 23987), (159, 24068),

Gene: FromIndy_24 Start: 21351, Stop: 22517, Start Num: 4

Candidate Starts for FromIndy_24:

(Start: 4 @21351 has 87 MA's), (12, 21435), (15, 21462), (26, 21516), (28, 21537), (30, 21543), (35, 21585), (37, 21609), (62, 21759), (64, 21774), (68, 21789), (73, 21831), (74, 21837), (84, 21903), (111, 22095), (114, 22113), (132, 22206), (148, 22356), (149, 22362), (150, 22380),

Gene: GantcherGoblin_27 Start: 24460, Stop: 25623, Start Num: 4

Candidate Starts for GantcherGoblin_27:

(Start: 4 @24460 has 87 MA's), (13, 24565), (15, 24571), (28, 24646), (30, 24652), (35, 24691), (60, 24856), (63, 24877), (82, 24997), (120, 25231), (123, 25255), (124, 25258), (144, 25435), (148, 25465),

Gene: Giantsbane_29 Start: 24546, Stop: 25709, Start Num: 4

Candidate Starts for Giantsbane_29:

(Start: 4 @24546 has 87 MA's), (5, 24552), (10, 24597), (13, 24651), (28, 24732), (37, 24804), (38, 24813), (59, 24939), (78, 25059), (81, 25077), (96, 25173), (100, 25203), (103, 25230), (131, 25401), (137, 25443), (144, 25524), (148, 25554), (150, 25578), (154, 25620),

Gene: GirlPower_24 Start: 23929, Stop: 25101, Start Num: 4

Candidate Starts for GirlPower_24:

(Start: 3 @23926 has 9 MA's), (Start: 4 @23929 has 87 MA's), (13, 24034), (23, 24085), (26, 24094), (28, 24115), (30, 24121), (35, 24163), (52, 24280), (61, 24331), (68, 24367), (73, 24409), (74, 24415), (84, 24481), (91, 24520), (97, 24559), (112, 24676), (113, 24685), (124, 24730), (125, 24733), (144, 24904), (148, 24934), (149, 24940), (150, 24958), (159, 25039),

Gene: GoCrazy_22 Start: 22523, Stop: 23584, Start Num: 2

Candidate Starts for GoCrazy_22:

(Start: 2 @22523 has 19 MA's), (6, 22553), (9, 22580), (28, 22724), (78, 23009), (100, 23138), (101, 23147), (103, 23165), (135, 23366), (136, 23387), (139, 23411),

Gene: GoblinVoyage_21 Start: 19527, Stop: 20690, Start Num: 4

Candidate Starts for GoblinVoyage_21:

(Start: 3 @19524 has 9 MA's), (Start: 4 @19527 has 87 MA's), (13, 19632), (19, 19665), (26, 19692), (27, 19710), (28, 19713), (29, 19716), (30, 19719), (35, 19761), (39, 19797), (41, 19809), (58, 19917), (82, 20067), (92, 20124), (101, 20193), (114, 20289), (125, 20331), (134, 20394), (141, 20472), (144, 20502), (148, 20529), (149, 20535), (150, 20553),

Gene: Gordon_28 Start: 26657, Stop: 27817, Start Num: 4

Candidate Starts for Gordon_28:

(Start: 3 @26654 has 9 MA's), (Start: 4 @26657 has 87 MA's), (5, 26663), (10, 26708), (19, 26795), (20, 26798), (28, 26843), (48, 26963), (59, 27050), (67, 27092), (75, 27149), (81, 27188), (103, 27341), (108, 27377), (131, 27512), (137, 27554), (144, 27635), (148, 27665), (154, 27731),

Gene: Hankly_22 Start: 21745, Stop: 22806, Start Num: 2

Candidate Starts for Hankly_22:

(Start: 2 @21745 has 19 MA's), (6, 21775), (9, 21802), (28, 21946), (38, 22024), (55, 22096), (78, 22231), (100, 22360), (101, 22369), (103, 22387), (135, 22588), (136, 22609), (139, 22633),

Gene: Heisenberger_23 Start: 22393, Stop: 23454, Start Num: 2

Candidate Starts for Heisenberger_23:

(Start: 2 @22393 has 19 MA's), (6, 22423), (9, 22450), (28, 22594), (78, 22879), (100, 23008), (101, 23017), (103, 23035), (135, 23236), (136, 23257),

Gene: Hoshi_25 Start: 22445, Stop: 23617, Start Num: 4

Candidate Starts for Hoshi_25:

(Start: 3 @22442 has 9 MA's), (Start: 4 @22445 has 87 MA's), (13, 22550), (26, 22610), (28, 22631), (30, 22637), (35, 22679), (52, 22796), (61, 22847), (68, 22883), (73, 22925), (84, 22997), (91, 23036), (112, 23192), (113, 23201), (124, 23246), (125, 23249), (144, 23420), (148, 23450), (149, 23456), (150, 23474), (154, 23516), (159, 23555),

Gene: HotFries_20 Start: 19525, Stop: 20688, Start Num: 4

Candidate Starts for HotFries_20:

(Start: 3 @19522 has 9 MA's), (Start: 4 @19525 has 87 MA's), (13, 19630), (19, 19663), (21, 19672), (26, 19690), (28, 19711), (29, 19714), (30, 19717), (34, 19738), (35, 19759), (39, 19795), (41, 19807), (58, 19915), (82, 20065), (84, 20077), (92, 20122), (101, 20191), (114, 20287), (134, 20392), (141, 20470), (144, 20500), (148, 20527), (149, 20533), (150, 20551),

Gene: IceWarrior_25 Start: 22445, Stop: 23617, Start Num: 4

Candidate Starts for IceWarrior_25:

(Start: 3 @22442 has 9 MA's), (Start: 4 @22445 has 87 MA's), (13, 22550), (26, 22610), (28, 22631), (30, 22637), (35, 22679), (52, 22796), (61, 22847), (68, 22883), (73, 22925), (84, 22997), (91, 23036), (112, 23192), (113, 23201), (124, 23246), (125, 23249), (144, 23420), (148, 23450), (149, 23456), (150, 23474), (154, 23516), (159, 23555),

Gene: Indigenous_25 Start: 22445, Stop: 23617, Start Num: 4

Candidate Starts for Indigenous_25:

(Start: 3 @22442 has 9 MA's), (Start: 4 @22445 has 87 MA's), (13, 22550), (26, 22610), (28, 22631), (30, 22637), (35, 22679), (52, 22796), (61, 22847), (68, 22883), (73, 22925), (84, 22997), (91, 23036), (112, 23192), (113, 23201), (124, 23246), (125, 23249), (144, 23420), (148, 23450), (149, 23456), (150, 23474), (154, 23516), (159, 23555),

Gene: Ingrid_28 Start: 25271, Stop: 26431, Start Num: 4

Candidate Starts for Ingrid_28:

(Start: 3 @25268 has 9 MA's), (Start: 4 @25271 has 87 MA's), (5, 25277), (10, 25322), (20, 25412), (28, 25457), (37, 25529), (38, 25538), (39, 25541), (48, 25577), (77, 25772), (81, 25802), (82, 25811), (101, 25937), (103, 25955), (122, 26066), (131, 26126), (132, 26129), (134, 26141), (140, 26216), (148, 26279),

Gene: Inked_30 Start: 26288, Stop: 27448, Start Num: 4

Candidate Starts for Inked_30:

(Start: 3 @26285 has 9 MA's), (Start: 4 @26288 has 87 MA's), (5, 26294), (28, 26474), (38, 26555), (48, 26594), (58, 26678), (75, 26780), (81, 26819), (84, 26840), (100, 26945), (103, 26972), (106, 26999), (123, 27086), (131, 27143), (140, 27233), (144, 27266), (148, 27296), (150, 27320),

Gene: Issa_28 Start: 25361, Stop: 26521, Start Num: 4

Candidate Starts for Issa_28:

(Start: 3 @25358 has 9 MA's), (Start: 4 @25361 has 87 MA's), (5, 25367), (10, 25412), (19, 25499), (20, 25502), (26, 25526), (28, 25547), (38, 25628), (67, 25796), (75, 25853), (81, 25892), (90, 25940),

(100, 26018), (103, 26045), (125, 26165), (131, 26216), (137, 26258), (138, 26267), (140, 26306), (144, 26339), (148, 26369), (150, 26393), (154, 26435),

Gene: JEGGS_23 Start: 22447, Stop: 23508, Start Num: 2

Candidate Starts for JEGGS_23:

(Start: 2 @22447 has 19 MA's), (6, 22477), (9, 22504), (28, 22648), (78, 22933), (100, 23062), (101, 23071), (103, 23089), (135, 23290), (136, 23311),

Gene: Jaylociraptor_25 Start: 22445, Stop: 23617, Start Num: 4

Candidate Starts for Jaylociraptor_25:

(Start: 3 @22442 has 9 MA's), (Start: 4 @22445 has 87 MA's), (13, 22550), (26, 22610), (28, 22631), (30, 22637), (35, 22679), (52, 22796), (61, 22847), (68, 22883), (73, 22925), (84, 22997), (91, 23036), (112, 23192), (113, 23201), (124, 23246), (125, 23249), (144, 23420), (148, 23450), (149, 23456), (150, 23474), (154, 23516), (159, 23555),

Gene: Jazzy4900_26 Start: 24396, Stop: 25559, Start Num: 4

Candidate Starts for Jazzy4900_26:

(Start: 3 @24393 has 9 MA's), (Start: 4 @24396 has 87 MA's), (5, 24402), (14, 24504), (21, 24543), (24, 24555), (28, 24582), (34, 24609), (47, 24696), (73, 24876), (80, 24924), (100, 25053), (103, 25080), (123, 25194), (133, 25254), (148, 25398), (158, 25509),

Gene: JoyLin_28 Start: 25973, Stop: 27040, Start Num: 4

Candidate Starts for JoyLin_28:

(Start: 4 @25973 has 87 MA's), (15, 26084), (20, 26114), (25, 26135), (28, 26159), (40, 26243), (51, 26291), (63, 26366), (65, 26372), (77, 26441), (112, 26684), (125, 26741), (130, 26795), (133, 26807), (151, 26978),

Gene: Kardashian_24 Start: 22402, Stop: 23568, Start Num: 4

Candidate Starts for Kardashian_24:

(Start: 4 @22402 has 87 MA's), (24, 22561), (26, 22567), (28, 22588), (35, 22636), (45, 22696), (53, 22756), (64, 22825), (73, 22882), (84, 22954), (101, 23068), (106, 23113), (111, 23146), (114, 23164), (132, 23257), (142, 23368), (143, 23371), (144, 23377), (148, 23407), (149, 23413), (150, 23431),

Gene: Kardesai_22 Start: 22126, Stop: 23187, Start Num: 2

Candidate Starts for Kardesai_22:

(Start: 2 @22126 has 19 MA's), (6, 22156), (9, 22183), (28, 22327), (78, 22612), (100, 22741), (101, 22750), (103, 22768), (135, 22969), (136, 22990), (139, 23014),

Gene: KeaneyLin_22 Start: 22523, Stop: 23584, Start Num: 2

Candidate Starts for KeaneyLin_22:

(Start: 2 @22523 has 19 MA's), (6, 22553), (9, 22580), (28, 22724), (78, 23009), (100, 23138), (101, 23147), (103, 23165), (135, 23366), (136, 23387), (139, 23411),

Gene: Leathea_28 Start: 24353, Stop: 25516, Start Num: 4

Candidate Starts for Leathea_28:

(Start: 4 @24353 has 87 MA's), (5, 24359), (21, 24500), (28, 24539), (35, 24584), (43, 24638), (48, 24656), (54, 24713), (57, 24731), (61, 24752), (94, 24965), (123, 25148), (126, 25157), (131, 25205), (135, 25229), (144, 25328), (148, 25358),

Gene: Lewando_31 Start: 26378, Stop: 27541, Start Num: 4

Candidate Starts for Lewando_31:

(1, 26270), (Start: 4 @26378 has 87 MA's), (15, 26489), (19, 26516), (27, 26561), (28, 26564), (34, 26591), (35, 26609), (54, 26738), (73, 26855), (101, 27041), (104, 27062), (143, 27347), (144, 27353),

(148, 27383), (150, 27407), (154, 27449),

Gene: LibertyBell_23 Start: 21306, Stop: 22475, Start Num: 4

Candidate Starts for LibertyBell_23:

(Start: 3 @21303 has 9 MA's), (Start: 4 @21306 has 87 MA's), (13, 21411), (26, 21471), (28, 21492), (30, 21498), (35, 21540), (39, 21576), (41, 21588), (49, 21633), (68, 21744), (74, 21792), (90, 21885), (98, 21945), (144, 22281), (146, 22299), (148, 22311), (150, 22335), (153, 22374), (160, 22428),

Gene: LilHuddy_29 Start: 25729, Stop: 26892, Start Num: 4

Candidate Starts for LilHuddy_29:

(Start: 4 @25729 has 87 MA's), (5, 25735), (13, 25834), (28, 25915), (37, 25987), (59, 26122), (81, 26260), (100, 26386), (103, 26413), (108, 26449), (131, 26584), (137, 26626), (144, 26707), (148, 26737), (150, 26761), (154, 26803),

Gene: Linda_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for Linda_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: Loretta_28 Start: 25271, Stop: 26431, Start Num: 4

Candidate Starts for Loretta_28:

(Start: 3 @25268 has 9 MA's), (Start: 4 @25271 has 87 MA's), (5, 25277), (10, 25322), (20, 25412), (28, 25457), (37, 25529), (38, 25538), (39, 25541), (48, 25577), (77, 25772), (81, 25802), (82, 25811), (101, 25937), (103, 25955), (122, 26066), (131, 26126), (132, 26129), (134, 26141), (140, 26216), (148, 26279),

Gene: Madamoto_25 Start: 22421, Stop: 23593, Start Num: 4

Candidate Starts for Madamoto_25:

(Start: 3 @22418 has 9 MA's), (Start: 4 @22421 has 87 MA's), (13, 22526), (23, 22577), (26, 22586), (28, 22607), (30, 22613), (35, 22655), (61, 22823), (62, 22829), (68, 22859), (73, 22901), (84, 22973), (91, 23012), (97, 23051), (112, 23168), (113, 23177), (124, 23222), (125, 23225), (144, 23396), (148, 23426), (149, 23432), (159, 23531),

Gene: Makai_28 Start: 25518, Stop: 26678, Start Num: 4

Candidate Starts for Makai_28:

(Start: 4 @25518 has 87 MA's), (5, 25524), (10, 25569), (13, 25623), (28, 25704), (38, 25785), (39, 25788), (48, 25824), (59, 25911), (77, 26019), (78, 26031), (81, 26049), (90, 26097), (100, 26175), (103, 26202), (108, 26238), (110, 26259), (125, 26322), (131, 26373), (132, 26376), (137, 26415), (140, 26463), (144, 26496), (148, 26526), (154, 26592),

Gene: Maya_25 Start: 22459, Stop: 23631, Start Num: 4

Candidate Starts for Maya_25:

(Start: 3 @22456 has 9 MA's), (Start: 4 @22459 has 87 MA's), (13, 22564), (26, 22624), (28, 22645), (30, 22651), (35, 22693), (52, 22810), (61, 22861), (68, 22897), (73, 22939), (84, 23011), (91, 23050), (112, 23206), (113, 23215), (124, 23260), (125, 23263), (144, 23434), (148, 23464), (149, 23470), (150, 23488), (154, 23530), (159, 23569),

Gene: MediumFry_26 Start: 24717, Stop: 25880, Start Num: 4

Candidate Starts for MediumFry_26:

(Start: 3 @24714 has 9 MA's), (Start: 4 @24717 has 87 MA's), (5, 24723), (28, 24903), (37, 24975), (38, 24984), (48, 25023), (78, 25230), (81, 25248), (100, 25374), (103, 25401), (106, 25428), (130,

25569), (131, 25572), (140, 25662), (144, 25695), (148, 25725), (150, 25749),

Gene: Meibysrarus_25 Start: 22445, Stop: 23617, Start Num: 4

Candidate Starts for Meibysrarus_25:

(Start: 3 @22442 has 9 MA's), (Start: 4 @22445 has 87 MA's), (13, 22550), (26, 22610), (28, 22631), (30, 22637), (35, 22679), (52, 22796), (61, 22847), (68, 22883), (73, 22925), (84, 22997), (91, 23036), (112, 23192), (113, 23201), (124, 23246), (125, 23249), (144, 23420), (148, 23450), (149, 23456), (150, 23474), (154, 23516), (159, 23555),

Gene: Michelle_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for Michelle_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: Miek_23 Start: 21363, Stop: 22529, Start Num: 4

Candidate Starts for Miek_23:

(Start: 4 @21363 has 87 MA's), (12, 21447), (15, 21474), (26, 21528), (28, 21549), (30, 21555), (35, 21597), (37, 21621), (64, 21786), (68, 21801), (73, 21843), (74, 21849), (84, 21915), (111, 22107), (114, 22125), (132, 22218), (148, 22368), (149, 22374), (150, 22392),

Gene: MiniBagel_28 Start: 26611, Stop: 27771, Start Num: 4

Candidate Starts for MiniBagel_28:

(Start: 3 @26608 has 9 MA's), (Start: 4 @26611 has 87 MA's), (5, 26617), (19, 26749), (20, 26752), (28, 26797), (38, 26878), (58, 27001), (59, 27004), (67, 27046), (75, 27103), (81, 27142), (100, 27268), (103, 27295), (125, 27415), (131, 27466), (137, 27508), (144, 27589), (148, 27619), (154, 27685),

Gene: Mooshroom_23 Start: 22126, Stop: 23187, Start Num: 2

Candidate Starts for Mooshroom_23:

(Start: 2 @22126 has 19 MA's), (6, 22156), (9, 22183), (28, 22327), (78, 22612), (100, 22741), (101, 22750), (103, 22768), (135, 22969), (136, 22990), (139, 23014),

Gene: Moozy_21 Start: 19542, Stop: 20705, Start Num: 4

Candidate Starts for Moozy_21:

(Start: 3 @19539 has 9 MA's), (Start: 4 @19542 has 87 MA's), (13, 19647), (19, 19680), (26, 19707), (28, 19728), (29, 19731), (30, 19734), (35, 19776), (39, 19812), (41, 19824), (58, 19932), (82, 20082), (84, 20094), (92, 20139), (101, 20208), (114, 20304), (125, 20346), (134, 20409), (141, 20487), (144, 20517), (148, 20544), (149, 20550), (150, 20568),

Gene: MrAaronian_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for MrAaronian_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: Mudcat_23 Start: 24424, Stop: 25485, Start Num: 2

Candidate Starts for Mudcat_23:

(Start: 2 @24424 has 19 MA's), (6, 24454), (9, 24481), (28, 24625), (78, 24910), (100, 25039), (101, 25048), (103, 25066), (135, 25267), (136, 25288),

Gene: Namo_25 Start: 22451, Stop: 23623, Start Num: 4

Candidate Starts for Namo_25:

(Start: 3 @22448 has 9 MA's), (Start: 4 @22451 has 87 MA's), (13, 22556), (26, 22616), (28, 22637), (30, 22643), (35, 22685), (52, 22802), (61, 22853), (68, 22889), (73, 22931), (84, 23003), (91, 23042), (112, 23198), (113, 23207), (124, 23252), (125, 23255), (144, 23426), (148, 23456), (149, 23462), (150, 23480), (154, 23522), (159, 23561),

Gene: NapoleonB_23 Start: 22523, Stop: 23584, Start Num: 2

Candidate Starts for NapoleonB_23:

(Start: 2 @22523 has 19 MA's), (6, 22553), (9, 22580), (28, 22724), (78, 23009), (100, 23138), (101, 23147), (135, 23366), (136, 23387),

Gene: Nason_24 Start: 23000, Stop: 24061, Start Num: 2

Candidate Starts for Nason_24:

(Start: 2 @23000 has 19 MA's), (6, 23030), (9, 23057), (28, 23201), (78, 23486), (100, 23615), (101, 23624), (135, 23843), (136, 23864),

Gene: Nightmare_29 Start: 25921, Stop: 27081, Start Num: 4

Candidate Starts for Nightmare_29:

(Start: 3 @25918 has 9 MA's), (Start: 4 @25921 has 87 MA's), (5, 25927), (10, 25972), (19, 26059), (20, 26062), (26, 26086), (28, 26107), (38, 26188), (67, 26356), (75, 26413), (81, 26452), (90, 26500), (100, 26578), (103, 26605), (125, 26725), (131, 26776), (137, 26818), (138, 26827), (140, 26866), (144, 26899), (148, 26929), (150, 26953), (154, 26995),

Gene: Niktson_28 Start: 26080, Stop: 27243, Start Num: 3

Candidate Starts for Niktson_28:

(Start: 3 @26080 has 9 MA's), (Start: 4 @26083 has 87 MA's), (5, 26089), (17, 26200), (19, 26221), (20, 26224), (28, 26269), (38, 26350), (59, 26476), (67, 26518), (75, 26575), (81, 26614), (103, 26767), (125, 26887), (131, 26938), (137, 26980), (140, 27028), (144, 27061), (148, 27091), (150, 27115), (154, 27157),

Gene: Nivinsha_28 Start: 25471, Stop: 26631, Start Num: 4

Candidate Starts for Nivinsha_28:

(Start: 3 @25468 has 9 MA's), (Start: 4 @25471 has 87 MA's), (5, 25477), (10, 25522), (19, 25609), (20, 25612), (28, 25657), (37, 25729), (48, 25777), (59, 25864), (67, 25906), (75, 25963), (81, 26002), (100, 26128), (103, 26155), (108, 26191), (125, 26275), (131, 26326), (137, 26368), (144, 26449), (148, 26479), (154, 26545),

Gene: OlympicHelado_25 Start: 22448, Stop: 23623, Start Num: 3

Candidate Starts for OlympicHelado_25:

(Start: 3 @22448 has 9 MA's), (Start: 4 @22451 has 87 MA's), (13, 22556), (26, 22616), (28, 22637), (30, 22643), (35, 22685), (52, 22802), (61, 22853), (68, 22889), (73, 22931), (84, 23003), (91, 23042), (112, 23198), (113, 23207), (124, 23252), (125, 23255), (144, 23426), (148, 23456), (149, 23462), (150, 23480), (154, 23522), (159, 23561),

Gene: Paella_42 Start: 34610, Stop: 35776, Start Num: 4

Candidate Starts for Paella_42:

(Start: 3 @34607 has 9 MA's), (Start: 4 @34610 has 87 MA's), (5, 34616), (14, 34718), (28, 34796), (34, 34823), (36, 34853), (50, 34940), (77, 35111), (101, 35276), (143, 35579), (148, 35615), (152, 35675),

Gene: Phaby_29 Start: 25658, Stop: 26821, Start Num: 4

Candidate Starts for Phaby_29:

(Start: 4 @25658 has 87 MA's), (5, 25664), (10, 25709), (13, 25763), (28, 25844), (37, 25916), (38, 25925), (48, 25964), (59, 26051), (78, 26171), (81, 26189), (89, 26234), (100, 26315), (103, 26342), (108, 26378), (131, 26513), (132, 26516), (144, 26636), (148, 26666), (154, 26732),

Gene: Phaila_27 Start: 24038, Stop: 25201, Start Num: 4

Candidate Starts for Phaila_27:

(Start: 4 @24038 has 87 MA's), (13, 24143), (15, 24149), (28, 24224), (30, 24230), (35, 24269), (60, 24434), (63, 24455), (82, 24575), (98, 24674), (120, 24809), (123, 24833), (124, 24836), (144, 25013), (148, 25043),

Gene: PherryCruz_20 Start: 19524, Stop: 20690, Start Num: 3

Candidate Starts for PherryCruz_20:

(Start: 3 @19524 has 9 MA's), (Start: 4 @19527 has 87 MA's), (13, 19632), (19, 19665), (21, 19674), (26, 19692), (28, 19713), (29, 19716), (30, 19719), (34, 19740), (35, 19761), (39, 19797), (41, 19809), (58, 19917), (82, 20067), (92, 20124), (114, 20289), (134, 20394), (141, 20472), (144, 20502), (148, 20529), (149, 20535), (150, 20553),

Gene: Pippin15_27 Start: 23621, Stop: 24688, Start Num: 4

Candidate Starts for Pippin15_27:

(Start: 4 @23621 has 87 MA's), (15, 23732), (20, 23762), (25, 23783), (28, 23807), (29, 23810), (33, 23825), (63, 24014), (65, 24020), (77, 24089), (125, 24389), (131, 24446), (133, 24455), (149, 24605), (151, 24626),

Gene: Popy_25 Start: 22958, Stop: 24130, Start Num: 4

Candidate Starts for Popy_25:

(Start: 3 @22955 has 9 MA's), (Start: 4 @22958 has 87 MA's), (13, 23063), (23, 23114), (26, 23123), (28, 23144), (30, 23150), (32, 23159), (35, 23192), (61, 23360), (62, 23366), (68, 23396), (73, 23438), (74, 23444), (84, 23510), (91, 23549), (97, 23588), (112, 23705), (113, 23714), (124, 23759), (125, 23762), (141, 23903), (144, 23933), (148, 23963), (149, 23969), (150, 23987), (159, 24068),

Gene: ProfFrink_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for ProfFrink_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: Qui_42 Start: 34610, Stop: 35776, Start Num: 4

Candidate Starts for Qui_42:

(Start: 3 @34607 has 9 MA's), (Start: 4 @34610 has 87 MA's), (5, 34616), (14, 34718), (28, 34796), (34, 34823), (36, 34853), (50, 34940), (77, 35111), (101, 35276), (143, 35579), (148, 35615), (152, 35675),

Gene: Rainydai_23 Start: 21363, Stop: 22529, Start Num: 4

Candidate Starts for Rainydai_23:

(Start: 4 @21363 has 87 MA's), (12, 21447), (15, 21474), (26, 21528), (28, 21549), (30, 21555), (35, 21597), (37, 21621), (62, 21771), (64, 21786), (68, 21801), (73, 21843), (74, 21849), (84, 21915), (111, 22107), (114, 22125), (132, 22218), (148, 22368), (149, 22374), (150, 22392),

Gene: Raunak_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for Raunak_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134,

23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: RavenPuff_20 Start: 19527, Stop: 20690, Start Num: 4

Candidate Starts for RavenPuff_20:

(Start: 3 @19524 has 9 MA's), (Start: 4 @19527 has 87 MA's), (13, 19632), (19, 19665), (21, 19674), (26, 19692), (28, 19713), (29, 19716), (30, 19719), (34, 19740), (35, 19761), (39, 19797), (41, 19809), (58, 19917), (82, 20067), (92, 20124), (114, 20289), (134, 20394), (141, 20472), (144, 20502), (148, 20529), (149, 20535), (150, 20553),

Gene: Regigigas_24 Start: 21363, Stop: 22529, Start Num: 4

Candidate Starts for Regigigas_24:

(Start: 4 @21363 has 87 MA's), (12, 21447), (15, 21474), (26, 21528), (28, 21549), (30, 21555), (35, 21597), (37, 21621), (62, 21771), (64, 21786), (68, 21801), (73, 21843), (74, 21849), (84, 21915), (111, 22107), (114, 22125), (132, 22218), (148, 22368), (149, 22374), (150, 22392),

Gene: Renaldo_33 Start: 26387, Stop: 27550, Start Num: 4

Candidate Starts for Renaldo_33:

(Start: 4 @26387 has 87 MA's), (15, 26498), (19, 26525), (27, 26570), (28, 26573), (34, 26600), (35, 26618), (54, 26747), (73, 26864), (101, 27050), (104, 27071), (143, 27356), (144, 27362), (148, 27392), (150, 27416), (154, 27458),

Gene: Rima_25 Start: 22448, Stop: 23623, Start Num: 3

Candidate Starts for Rima_25:

(Start: 3 @22448 has 9 MA's), (Start: 4 @22451 has 87 MA's), (13, 22556), (26, 22616), (28, 22637), (30, 22643), (35, 22685), (52, 22802), (61, 22853), (68, 22889), (73, 22931), (84, 23003), (91, 23042), (112, 23198), (113, 23207), (124, 23252), (125, 23255), (144, 23426), (148, 23456), (149, 23462), (150, 23480), (154, 23522), (159, 23561),

Gene: RosaAsantewaa_21 Start: 19335, Stop: 20507, Start Num: 4

Candidate Starts for RosaAsantewaa_21:

(Start: 4 @19335 has 87 MA's), (8, 19371), (26, 19500), (27, 19518), (28, 19521), (30, 19527), (41, 19617), (70, 19791), (73, 19815), (74, 19821), (81, 19866), (84, 19887), (131, 20187), (144, 20310), (146, 20328), (148, 20340), (149, 20346), (150, 20364), (152, 20400),

Gene: Salk_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for Salk_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: Scap1_21 Start: 19479, Stop: 20642, Start Num: 4

Candidate Starts for Scap1_21:

(Start: 4 @19479 has 87 MA's), (13, 19584), (16, 19593), (18, 19608), (20, 19620), (26, 19644), (28, 19665), (30, 19671), (35, 19713), (39, 19749), (41, 19761), (49, 19806), (52, 19830), (70, 19935), (73, 19959), (82, 20019), (85, 20034), (91, 20070), (96, 20106), (100, 20136), (106, 20190), (134, 20346), (141, 20424), (144, 20454), (148, 20481), (149, 20487), (150, 20505),

Gene: ScienceWizSam_30 Start: 25872, Stop: 27032, Start Num: 4

Candidate Starts for ScienceWizSam_30:

(Start: 3 @25869 has 9 MA's), (Start: 4 @25872 has 87 MA's), (5, 25878), (10, 25923), (19, 26010), (20, 26013), (28, 26058), (37, 26130), (48, 26178), (59, 26265), (67, 26307), (75, 26364), (81, 26403),

(100, 26529), (103, 26556), (131, 26727), (137, 26769), (144, 26850), (148, 26880), (154, 26946),

Gene: SendItCS_22 Start: 21363, Stop: 22529, Start Num: 4

Candidate Starts for SendItCS_22:

(Start: 4 @21363 has 87 MA's), (12, 21447), (15, 21474), (26, 21528), (28, 21549), (30, 21555), (35, 21597), (37, 21621), (64, 21786), (68, 21801), (73, 21843), (74, 21849), (84, 21915), (111, 22107), (114, 22125), (132, 22218), (148, 22368), (149, 22374), (150, 22392),

Gene: Serenabeen_26 Start: 23971, Stop: 25038, Start Num: 4

Candidate Starts for Serenabeen_26:

(Start: 4 @23971 has 87 MA's), (15, 24082), (22, 24124), (25, 24133), (28, 24157), (40, 24238), (66, 24370), (78, 24451), (86, 24496), (93, 24535), (149, 24955), (156, 25027),

Gene: SheRa_21 Start: 19526, Stop: 20689, Start Num: 4

Candidate Starts for SheRa_21:

(Start: 3 @19523 has 9 MA's), (Start: 4 @19526 has 87 MA's), (13, 19631), (19, 19664), (21, 19673), (26, 19691), (28, 19712), (29, 19715), (30, 19718), (34, 19739), (35, 19760), (39, 19796), (41, 19808), (82, 20066), (84, 20078), (92, 20123), (101, 20192), (114, 20288), (134, 20393), (141, 20471), (144, 20501), (148, 20528), (149, 20534), (150, 20552),

Gene: Shepard_29 Start: 25726, Stop: 26889, Start Num: 4

Candidate Starts for Shepard_29:

(Start: 4 @25726 has 87 MA's), (5, 25732), (13, 25831), (28, 25912), (37, 25984), (38, 25993), (59, 26119), (81, 26257), (100, 26383), (103, 26410), (108, 26446), (131, 26581), (137, 26623), (144, 26704), (148, 26734), (150, 26758), (154, 26800),

Gene: Shiba_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for Shiba_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: Sloopyjoe_25 Start: 22609, Stop: 23775, Start Num: 4

Candidate Starts for Sloopyjoe_25:

(Start: 4 @22609 has 87 MA's), (5, 22615), (13, 22714), (15, 22720), (25, 22771), (35, 22843), (63, 23029), (97, 23239), (98, 23248), (106, 23320), (110, 23350), (112, 23356), (128, 23428), (134, 23479), (143, 23581), (144, 23587), (146, 23605), (147, 23614), (148, 23617), (150, 23641), (152, 23677),

Gene: Soshi_25 Start: 22964, Stop: 24136, Start Num: 4

Candidate Starts for Soshi_25:

(Start: 3 @22961 has 9 MA's), (Start: 4 @22964 has 87 MA's), (13, 23069), (23, 23120), (26, 23129), (28, 23150), (30, 23156), (32, 23165), (35, 23198), (61, 23366), (62, 23372), (68, 23402), (73, 23444), (74, 23450), (84, 23516), (91, 23555), (97, 23594), (112, 23711), (113, 23720), (124, 23765), (125, 23768), (141, 23909), (144, 23939), (148, 23969), (149, 23975), (150, 23993), (159, 24074),

Gene: Spectropatronm_25 Start: 22445, Stop: 23617, Start Num: 4

Candidate Starts for Spectropatronm_25:

(Start: 3 @22442 has 9 MA's), (Start: 4 @22445 has 87 MA's), (13, 22550), (26, 22610), (28, 22631), (30, 22637), (35, 22679), (52, 22796), (61, 22847), (68, 22883), (73, 22925), (84, 22997), (91, 23036), (112, 23192), (113, 23201), (124, 23246), (125, 23249), (144, 23420), (148, 23450), (149, 23456), (150, 23474), (154, 23516), (159, 23555),

Gene: Sporto_26 Start: 23819, Stop: 24985, Start Num: 4

Candidate Starts for Sporto_26:

(Start: 4 @23819 has 87 MA's), (5, 23825), (13, 23924), (15, 23930), (25, 23981), (26, 23984), (28, 24005), (35, 24053), (46, 24116), (64, 24242), (79, 24341), (87, 24383), (99, 24461), (110, 24560), (135, 24698), (147, 24824), (148, 24827),

Gene: StarLord_25 Start: 22609, Stop: 23775, Start Num: 4

Candidate Starts for StarLord_25:

(Start: 4 @22609 has 87 MA's), (5, 22615), (13, 22714), (15, 22720), (25, 22771), (35, 22843), (63, 23029), (97, 23239), (98, 23248), (106, 23320), (110, 23350), (112, 23356), (128, 23428), (134, 23479), (143, 23581), (144, 23587), (146, 23605), (147, 23614), (148, 23617), (150, 23641), (152, 23677),

Gene: Stayer_25 Start: 22608, Stop: 23774, Start Num: 4

Candidate Starts for Stayer_25:

(Start: 4 @22608 has 87 MA's), (5, 22614), (13, 22713), (15, 22719), (25, 22770), (35, 22842), (63, 23028), (97, 23238), (98, 23247), (106, 23319), (110, 23349), (112, 23355), (128, 23427), (134, 23478), (143, 23580), (144, 23586), (146, 23604), (147, 23613), (148, 23616), (150, 23640), (152, 23676),

Gene: Sunny4976_25 Start: 24396, Stop: 25559, Start Num: 4

Candidate Starts for Sunny4976_25:

(Start: 3 @24393 has 9 MA's), (Start: 4 @24396 has 87 MA's), (5, 24402), (14, 24504), (21, 24543), (24, 24555), (28, 24582), (34, 24609), (47, 24696), (73, 24876), (80, 24924), (100, 25053), (103, 25080), (123, 25194), (133, 25254), (148, 25398), (158, 25509),

Gene: Synopsis_27 Start: 25532, Stop: 26695, Start Num: 3

Candidate Starts for Synopsis_27:

(Start: 3 @25532 has 9 MA's), (Start: 4 @25535 has 87 MA's), (5, 25541), (10, 25586), (19, 25673), (20, 25676), (28, 25721), (37, 25793), (48, 25841), (59, 25928), (67, 25970), (75, 26027), (81, 26066), (100, 26192), (103, 26219), (108, 26255), (131, 26390), (137, 26432), (144, 26513), (148, 26543), (154, 26609),

Gene: TaidaOne_25 Start: 23093, Stop: 24265, Start Num: 4

Candidate Starts for TaidaOne_25:

(Start: 3 @23090 has 9 MA's), (Start: 4 @23093 has 87 MA's), (13, 23198), (26, 23258), (28, 23279), (30, 23285), (35, 23327), (52, 23444), (61, 23495), (68, 23531), (73, 23573), (84, 23645), (85, 23648), (91, 23684), (112, 23840), (113, 23849), (124, 23894), (125, 23897), (144, 24068), (148, 24098), (149, 24104), (150, 24122), (154, 24164), (159, 24203),

Gene: Tatanka_28 Start: 26019, Stop: 27179, Start Num: 4

Candidate Starts for Tatanka_28:

(Start: 3 @26016 has 9 MA's), (Start: 4 @26019 has 87 MA's), (5, 26025), (10, 26070), (19, 26157), (20, 26160), (28, 26205), (37, 26277), (48, 26325), (59, 26412), (67, 26454), (75, 26511), (81, 26550), (100, 26676), (103, 26703), (108, 26739), (125, 26823), (131, 26874), (137, 26916), (144, 26997), (148, 27027), (154, 27093),

Gene: Teacup_28 Start: 25391, Stop: 26551, Start Num: 4

Candidate Starts for Teacup_28:

(Start: 3 @25388 has 9 MA's), (Start: 4 @25391 has 87 MA's), (5, 25397), (19, 25529), (20, 25532), (28, 25577), (38, 25658), (48, 25697), (58, 25781), (67, 25826), (75, 25883), (81, 25922), (100, 26048), (103, 26075), (108, 26111), (125, 26195), (131, 26246), (137, 26288), (138, 26297), (140,

26336), (144, 26369), (148, 26399), (150, 26423), (154, 26465),

Gene: Tenno_29 Start: 26620, Stop: 27780, Start Num: 4

Candidate Starts for Tenno_29:

(Start: 3 @26617 has 9 MA's), (Start: 4 @26620 has 87 MA's), (5, 26626), (19, 26758), (20, 26761), (28, 26806), (38, 26887), (58, 27010), (59, 27013), (67, 27055), (75, 27112), (81, 27151), (100, 27277), (103, 27304), (125, 27424), (131, 27475), (137, 27517), (144, 27598), (148, 27628), (154, 27694),

Gene: Thiqqums_23 Start: 21363, Stop: 22529, Start Num: 4

Candidate Starts for Thiqqums_23:

(Start: 4 @21363 has 87 MA's), (12, 21447), (15, 21474), (26, 21528), (28, 21549), (30, 21555), (35, 21597), (37, 21621), (62, 21771), (64, 21786), (68, 21801), (73, 21843), (74, 21849), (84, 21915), (111, 22107), (114, 22125), (132, 22218), (148, 22368), (149, 22374), (150, 22392),

Gene: TieDye_24 Start: 22137, Stop: 23309, Start Num: 4

Candidate Starts for TieDye_24:

(Start: 3 @22134 has 9 MA's), (Start: 4 @22137 has 87 MA's), (13, 22242), (26, 22302), (28, 22323), (30, 22329), (35, 22371), (52, 22488), (61, 22539), (68, 22575), (73, 22617), (84, 22689), (91, 22728), (112, 22884), (113, 22893), (124, 22938), (125, 22941), (144, 23112), (148, 23142), (149, 23148), (150, 23166), (154, 23208), (159, 23247),

Gene: Tokki_29 Start: 25674, Stop: 26837, Start Num: 4

Candidate Starts for Tokki_29:

(Start: 4 @25674 has 87 MA's), (5, 25680), (10, 25725), (13, 25779), (28, 25860), (37, 25932), (38, 25941), (48, 25980), (59, 26067), (78, 26187), (81, 26205), (88, 26244), (89, 26250), (90, 26253), (100, 26331), (103, 26358), (108, 26394), (131, 26529), (132, 26532), (144, 26652), (148, 26682), (154, 26748),

Gene: TonyStarch_25 Start: 22451, Stop: 23623, Start Num: 4

Candidate Starts for TonyStarch_25:

(Start: 3 @22448 has 9 MA's), (Start: 4 @22451 has 87 MA's), (13, 22556), (26, 22616), (28, 22637), (30, 22643), (35, 22685), (52, 22802), (61, 22853), (68, 22889), (73, 22931), (84, 23003), (91, 23042), (112, 23198), (113, 23207), (124, 23252), (125, 23255), (144, 23426), (148, 23456), (149, 23462), (150, 23480), (154, 23522), (159, 23561),

Gene: Tribby_24 Start: 22715, Stop: 23776, Start Num: 2

Candidate Starts for Tribby_24:

(Start: 2 @22715 has 19 MA's), (6, 22745), (9, 22772), (26, 22895), (28, 22916), (33, 22934), (54, 23063), (78, 23201), (100, 23330), (103, 23357), (135, 23558), (136, 23579),

Gene: TrixiePhattel_29 Start: 24770, Stop: 25747, Start Num: 28

Candidate Starts for TrixiePhattel_29:

(Start: 4 @24584 has 87 MA's), (13, 24689), (15, 24695), (25, 24746), (28, 24770), (30, 24776), (35, 24815), (60, 24980), (63, 25001), (82, 25121), (98, 25220), (100, 25238), (109, 25319), (120, 25355), (122, 25376), (123, 25379), (124, 25382), (143, 25553), (144, 25559), (148, 25589),

Gene: Truckee_27 Start: 25563, Stop: 26723, Start Num: 4

Candidate Starts for Truckee_27:

(Start: 4 @25563 has 87 MA's), (5, 25569), (10, 25614), (13, 25668), (28, 25749), (38, 25830), (39, 25833), (59, 25956), (72, 26034), (77, 26064), (78, 26076), (81, 26094), (90, 26142), (100, 26220), (103, 26247), (108, 26283), (110, 26304), (125, 26367), (131, 26418), (132, 26421), (137, 26460), (140, 26508), (144, 26541), (148, 26571), (154, 26637),

Gene: Trustiboi_29 Start: 26085, Stop: 27248, Start Num: 3

Candidate Starts for Trustiboi_29:

(Start: 3 @26085 has 9 MA's), (Start: 4 @26088 has 87 MA's), (5, 26094), (10, 26139), (19, 26226), (20, 26229), (28, 26274), (37, 26346), (48, 26394), (59, 26481), (67, 26523), (75, 26580), (81, 26619), (100, 26745), (103, 26772), (108, 26808), (131, 26943), (137, 26985), (144, 27066), (148, 27096), (154, 27162),

Gene: Uzumaki_28 Start: 25279, Stop: 26442, Start Num: 4

Candidate Starts for Uzumaki_28:

(Start: 4 @25279 has 87 MA's), (13, 25384), (15, 25390), (28, 25465), (30, 25471), (35, 25510), (60, 25675), (63, 25696), (82, 25816), (120, 26050), (123, 26074), (124, 26077), (144, 26254), (148, 26284),

Gene: Xenomorph_22 Start: 22733, Stop: 23794, Start Num: 2

Candidate Starts for Xenomorph_22:

(Start: 2 @22733 has 19 MA's), (5, 22754), (6, 22763), (9, 22790), (28, 22934), (38, 23012), (55, 23084), (69, 23168), (78, 23219), (100, 23348), (101, 23357), (103, 23375), (135, 23576),

Gene: Yotsuba_28 Start: 25982, Stop: 27049, Start Num: 4

Candidate Starts for Yotsuba_28:

(Start: 4 @25982 has 87 MA's), (15, 26093), (20, 26123), (25, 26144), (28, 26168), (40, 26252), (51, 26300), (63, 26375), (65, 26381), (77, 26450), (112, 26693), (125, 26750), (130, 26804), (133, 26816), (151, 26987),

Gene: Zeina_28 Start: 24660, Stop: 25823, Start Num: 4

Candidate Starts for Zeina_28:

(Start: 4 @24660 has 87 MA's), (13, 24765), (15, 24771), (28, 24846), (30, 24852), (35, 24891), (60, 25056), (63, 25077), (82, 25197), (98, 25296), (120, 25431), (123, 25455), (124, 25458), (144, 25635), (148, 25665),