

Pham 280284

1: Laurie_32	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
2: Gpx1_25	31	10	11	15	32	51	67	68	78	95	103	106	112	115	123	128	138	143	157	165	174	179	182	186	195	201	211	212	229	235	243
3: LordLager_2	31	10	11	15	32	50	67	71	78	95	103	106	112	115	123	128	138	143	157	165	174	179	182	186	195	201	211	212	229	235	243
4: Milacafonita_19 + 1	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
5: M56_18	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
6: M56Salad_18	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
7: Xula_20	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
8: OlfenHazel_21	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
9: Babsiella_21 + 1	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
10: Nicole_30 + 1	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
11: FreakyGo_3	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
12: Dulcita_30 + 3	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
13: KleverKS_30	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
14: Gaske16_31	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
15: SlimJenny_20	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
16: Xexxes_20 + 21	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
17: Menae_20 + 17	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
18: Snekmagearon_20 + 2	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
19: Rebel_20	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
20: Sjah_21 + 18	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
21: Bartholomew_21 + 1	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
22: Blasacoram_21 + 3	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
23: Venti_21	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
24: Bingsy_21 + 3	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
25: Jung_21	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
26: GreaseLightnin_21	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
27: SavieRay_21	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
28: Mithi_21	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
29: Bluvava_21	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
30: Argie_25	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
31: Taptic_24	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
32: Megabsar_24 + 1	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253
33: LilSpotly_23	29	38	43	48	56	60	69	73	81	90	92	100	107	111	140	146	149	165	174	182	186	191	198	203	215	217	230	236	242	245	253

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 280284 Report

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

Pham number 280284 has 100 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Laurie_32
- Track 2 : Gsput1_25
- Track 3 : LordVader_20
- Track 4 : MilanaBonita_19, Akhila_19
- Track 5 : Ms6_18
- Track 6 : MulchSalad_18
- Track 7 : Xula_20
- Track 8 : QueenHazel_21
- Track 9 : Babsiella_21, HC_21
- Track 10 : Bricole_30, PegLeg_30
- Track 11 : FreakyGoo_31, LilhomieP_29, TpudiCK_31, IPhane7_30, Bongo_30, TyDawg_30
- Track 12 : Dulcita_31, Izel_31, Diminimus_31, Auspice_30
- Track 13 : KleverKiS_30
- Track 14 : Glaske16_31
- Track 15 : SlimJimmy_29
- Track 16 : Xerxes_20, Parmesanjohn_20, Duplicity_20, Bosection6_20, Cubone_20, Journey_20, Charlie_20, Silvy_20, Smurph_20, Tortoise12_20, Pipsqueaks_20, Tapioca_20, Carcharodon_20, Gex_20, Aggie_20, Magsby_20, Melville_20, EGUnicorn_20, Chewbacca_20, Schnauzer_20, Philonius_20, Silvafighter_20
- Track 17 : Nenae_20, Purgamenstris_20, Hanako_20, PhancyPhin_20, Redi_20, Spinach_20, BabeRuth_20, ShrimpFriedEgg_20
- Track 18 : SnekMaggedon_20, SpongeBob_20, Jamie19_20
- Track 19 : Rebel_20
- Track 20 : Sonah_21, Polkaroo_21, Langerak_21, Necropolis_21, HUHilltop_21, Chubbello_21, Vidya_21, FirstPlacePfu_21, Jebeks_21, Etoile_21, Donovan_21, Ksquared_21, Zilizebeth_21, Kari_21, Phegasus_21, Juniormint_21, Fishburne_21, GaloreK_21, Techage_21
- Track 21 : Bartholomew_21, Bunnies_21
- Track 22 : Brusacoram_21, Mangethe_21, Majeke_21, Thespis_21
- Track 23 : Venti_21
- Track 24 : Bhagsy_21, PeanutPie_21, Camster_21, Arib1_21
- Track 25 : Jung_21
- Track 26 : GreaseLightnin_21
- Track 27 : StevieRay_21
- Track 28 : Malithi_21
- Track 29 : Bluvāra_21

- Track 30 : Argie_25
- Track 31 : Taptic_24
- Track 32 : Megabear_24, Cepens_24
- Track 33 : LilSpotty_23

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

The start number called the most often in the published annotations is 9, it was called in 28 of the 87 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arib1_21, Bartholomew_21, Bhagsy_21, Brusacoram_21, Bunnies_21, Camster_21, Chubbello_21, Donovan_21, Etoile_21, FirstPlacePfu_21, Fishburne_21, GaloreK_21, HUHilltop_21, Jebeks_21, Jung_21, Juniormint_21, Kari_21, Ksquared_21, Langerak_21, Majeke_21, Malithi_21, Mangethe_21, MulchSalad_18, Necropolis_21, PeanutPie_21, Phegasus_21, Polkaro_21, Sonah_21, StevieRay_21, Techage_21, Thespi_21, Venti_21, Vidya_21, Zilizebeth_21,

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

- Aggie_20, BabeRuth_20, Bosection6_20, Carcharodon_20, Charlie_20, Chewbacca_20, Cubone_20, Duplicity_20, EGUnicorn_20, Gex_20, GreaseLightnin_21, Hanako_20, Jamie19_20, Journey_20, Magsby_20, Melville_20, Ms6_18, Nenae_20, Parmesanjohn_20, PhancyPhin_20, Philonius_20, Pipsqueaks_20, Purgamenstris_20, Rebel_20, Redi_20, Schnauzer_20, ShrimpFriedEgg_20, Silvafighter_20, Silvy_20, Smurph_20, Snekmaggon_20, Spinach_20, SpongeBob_20, Tapioca_20, Tortoise12_20, Xerxes_20,

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

- Akhila_19, Argie_25, Auspice_30, Babsiella_21, Bluvara_21, Bongo_30, Bricole_30, Cepens_24, Diminimus_31, Dulcita_31, FreakyGoo_31, Glaske16_31, Gsput1_25, HC_21, IPhone7_30, Izel_31, KleverKiS_30, Laurie_32, LilSpotty_23, LilhomieP_29, LordVader_20, Megabear_24, MilanaBonita_19, PegLeg_30, QueenHazel_21, SlimJimmy_29, Taptic_24, TpudiCK_31, TyDawg_30, Xula_20,

Summary by start number:

Start 1:

- Found in 1 of 100 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 87
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilSpotty_23 (singleton),

Start 4:

- Found in 14 of 100 (14.0%) of genes in pham
- Manual Annotations of this start: 13 of 87
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabeRuth_20 (N), GreaseLightnin_21 (P1), Hanako_20 (N), Jamie19_20 (N), Ms6_18 (F1), Nenae_20 (N), PhancyPhin_20 (N), Purgamenstris_20 (N), Rebel_20 (N), Redi_20 (N), ShrimpFriedEgg_20 (N), Snekmaggon_20 (N), Spinach_20 (N), SpongeBob_20 (N),

Start 5:

- Found in 5 of 100 (5.0%) of genes in pham
- Manual Annotations of this start: 4 of 87
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Babsiella_21 (I1), Bluvara_21 (UNK), HC_21 (I1), QueenHazel_21 (I1), Xula_20 (I1),

Start 7:

- Found in 3 of 100 (3.0%) of genes in pham
- Manual Annotations of this start: 2 of 87
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akhila_19 (F1), LordVader_20 (F), MilanaBonita_19 (F1),

Start 8:

- Found in 15 of 100 (15.0%) of genes in pham
- Manual Annotations of this start: 13 of 87
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Auspice_30 (M1), Bongo_30 (M1), Bricole_30 (M1), Diminimus_31 (M1), Dulcita_31 (M1), FreakyGoo_31 (M1), Glaske16_31 (M1), IPhane7_30 (M1), Izel_31 (M1), KleverKiS_30 (M1), LilhomieP_29 (M1), PegLeg_30 (M1), SlimJimmy_29 (M1), TpudiCK_31 (M1), TyDawg_30 (M1),

Start 9:

- Found in 70 of 100 (70.0%) of genes in pham
- Manual Annotations of this start: 28 of 87
- Called 48.6% of time when present
- Phage (with cluster) where this start called: Arib1_21 (P1), Bartholomew_21 (P1), Bhagsy_21 (P1), Brusacoram_21 (P1), Bunnies_21 (P1), Camster_21 (P1), Chubbello_21 (P1), Donovan_21 (P1), Etoile_21 (P1), FirstPlacePfu_21 (P1), Fishburne_21 (P1), GaloreK_21 (P1), HUHilltop_21 (P1), Jebeks_21 (P1), Jung_21 (P1), Juniormint_21 (P1), Kari_21 (P1), Ksquared_21 (P1), Langerak_21 (P1), Majeke_21 (P1), Malithi_21 (P1), Mangethe_21 (P1), MulchSalad_18 (F7), Necropolis_21 (P1), PeanutPie_21 (P1), Phegasus_21 (P1), Polkaroo_21 (P1), Sonah_21 (P1), StevieRay_21 (P1), Techage_21 (P1), Thespiis_21 (P1), Venti_21 (P1), Vidya_21 (P1), Zilizebeth_21 (P1),

Start 10:

- Found in 53 of 100 (53.0%) of genes in pham
- Manual Annotations of this start: 21 of 87
- Called 41.5% of time when present
- Phage (with cluster) where this start called: Aggie_20 (N), Bosection6_20 (N), Carcharodon_20 (N), Charlie_20 (N), Chewbacca_20 (N), Cubone_20 (N), Duplicity_20 (N), EGUnicorn_20 (N), Gex_20 (N), Journey_20 (N), Magsby_20 (N), Melville_20 (N), Parmesanjohn_20 (N), Philonius_20 (N), Pipsqueaks_20 (N), Schnauzer_20 (N), Silvafighter_20 (N), Silvy_20 (N), Smurph_20 (N), Tapioca_20 (N), Tortoise12_20 (N), Xerxes_20 (N),

Start 29:

- Found in 1 of 100 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 87

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Laurie_32 (B2),

Start 31:

- Found in 4 of 100 (4.0%) of genes in pham
- Manual Annotations of this start: 4 of 87
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_25 (W), Cepens_24 (W), Megabear_24 (W), Taptic_24 (W),

Start 60:

- Found in 1 of 100 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gsput1_25 (CU2),

Summary by clusters:

There are 12 clusters represented in this pham: F1, singleton, P1, B2, F7, I1, F, N, M1, W, UNK, CU2,

Info for manual annotations of cluster B2:

- Start number 29 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster F1:

- Start number 7 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster I1:

- Start number 5 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster M1:

- Start number 8 was manually annotated 13 times for cluster M1.

Info for manual annotations of cluster N:

- Start number 4 was manually annotated 12 times for cluster N.
- Start number 10 was manually annotated 21 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 4 was manually annotated 1 time for cluster P1.
- Start number 9 was manually annotated 28 times for cluster P1.

Info for manual annotations of cluster W:

- Start number 31 was manually annotated 4 times for cluster W.

Gene Information:

Gene: Aggie_20 Start: 17557, Stop: 19551, Start Num: 10

Candidate Starts for Aggie_20:

(Start: 9 @17545 has 28 MA's), (Start: 10 @17557 has 21 MA's), (13, 17569), (15, 17581), (21, 17635), (32, 17704), (33, 17707), (34, 17716), (36, 17731), (55, 17893), (61, 17971), (63, 17986), (68, 18016), (78, 18064), (80, 18088), (82, 18106), (87, 18154), (91, 18190), (95, 18214), (110, 18349), (122, 18406), (124, 18451), (134, 18511), (139, 18544), (140, 18553), (148, 18634), (159, 18778), (163, 18811), (165, 18829), (167, 18853), (170, 18865), (171, 18886), (172, 18916), (173, 18931), (174, 18934), (177, 18955), (179, 19045), (182, 19111), (185, 19153), (186, 19156), (190, 19186), (191, 19219), (193, 19240), (194, 19243), (199, 19300), (203, 19324), (205, 19339), (206, 19369), (208, 19375), (213, 19453), (214, 19456), (216, 19510), (219, 19534),

Gene: Akhila_19 Start: 18067, Stop: 20265, Start Num: 7

Candidate Starts for Akhila_19:

(3, 18055), (Start: 7 @18067 has 2 MA's), (Start: 10 @18088 has 21 MA's), (14, 18109), (19, 18148), (28, 18217), (32, 18226), (33, 18229), (39, 18280), (42, 18295), (50, 18370), (65, 18505), (67, 18517), (71, 18538), (78, 18571), (95, 18718), (103, 18781), (108, 18820), (109, 18844), (113, 18859), (114, 18868), (119, 18895), (120, 18898), (121, 18901), (127, 18970), (131, 18991), (133, 18997), (138, 19033), (140, 19051), (165, 19327), (172, 19393), (174, 19411), (176, 19429), (182, 19588), (201, 19714), (212, 19855), (215, 19870), (217, 19921), (221, 19948), (222, 19969), (232, 20071), (234, 20086), (236, 20092), (243, 20137), (245, 20155), (246, 20161), (250, 20224),

Gene: Argie_25 Start: 27496, Stop: 29625, Start Num: 31

Candidate Starts for Argie_25:

(Start: 31 @27496 has 4 MA's), (40, 27565), (45, 27598), (47, 27619), (54, 27676), (58, 27706), (59, 27724), (72, 27817), (73, 27820), (81, 27874), (92, 27958), (100, 27994), (102, 28015), (107, 28063), (111, 28102), (120, 28156), (124, 28210), (126, 28222), (129, 28246), (132, 28270), (135, 28282), (137, 28297), (139, 28312), (142, 28354), (149, 28435), (165, 28606), (172, 28672), (174, 28690), (176, 28708), (182, 28867), (184, 28894), (186, 28912), (189, 28939), (191, 28975), (193, 28993), (195, 28999), (196, 29026), (197, 29032), (203, 29074), (215, 29215), (217, 29266), (230, 29410), (235, 29446), (236, 29449), (242, 29497), (245, 29521), (247, 29557), (248, 29560), (249, 29569), (251, 29605), (253, 29620),

Gene: Arib1_21 Start: 19044, Stop: 21305, Start Num: 9

Candidate Starts for Arib1_21:

(Start: 9 @19044 has 28 MA's), (33, 19197), (65, 19470), (67, 19482), (71, 19503), (76, 19527), (84, 19602), (93, 19674), (98, 19704), (103, 19740), (109, 19803), (113, 19818), (118, 19845), (119, 19851), (127, 19926), (131, 19950), (133, 19956), (140, 20010), (141, 20016), (165, 20286), (172, 20352), (174, 20370), (176, 20388), (182, 20547), (184, 20574), (186, 20592), (189, 20619), (191, 20655), (193, 20673), (195, 20679), (196, 20706), (197, 20712), (203, 20754), (215, 20895), (217, 20946), (230, 21090), (235, 21126), (236, 21129), (242, 21177), (245, 21201), (247, 21237), (248, 21240), (249, 21249), (251, 21285), (253, 21300),

Gene: Auspice_30 Start: 24622, Stop: 26973, Start Num: 8

Candidate Starts for Auspice_30:

(Start: 8 @24622 has 13 MA's), (23, 24742), (26, 24757), (37, 24829), (39, 24850), (41, 24862), (44, 24889), (46, 24898), (65, 25084), (77, 25147), (84, 25216), (88, 25243), (99, 25318), (101, 25339), (120, 25474), (127, 25555), (130, 25570), (131, 25579), (133, 25585), (147, 25708), (159, 25864), (162, 25882), (163, 25897), (172, 25981), (174, 25999), (175, 26008), (176, 26017), (181, 26164), (182, 26176), (187, 26242), (191, 26284), (195, 26308), (197, 26341), (204, 26395), (207, 26434), (209, 26446), (218, 26578), (223, 26623), (231, 26749), (235, 26773), (237, 26782), (239, 26791), (240, 26803), (241, 26815), (242, 26830), (247, 26890), (252, 26959),

Gene: BabeRuth_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for BabeRuth_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (65, 17992), (67, 18004), (71, 18025), (79, 18070), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (108, 18307), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (161, 18772), (165, 18814), (173, 18895), (174, 18898), (176, 18916), (178, 18982), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: Babsiella_21 Start: 19025, Stop: 21313, Start Num: 5

Candidate Starts for Babsiella_21:

(Start: 5 @19025 has 4 MA's), (Start: 10 @19049 has 21 MA's), (24, 19160), (27, 19169), (33, 19196), (50, 19343), (65, 19478), (67, 19490), (71, 19511), (76, 19535), (84, 19610), (93, 19682), (98, 19712), (103, 19748), (109, 19811), (113, 19826), (118, 19853), (119, 19859), (120, 19862), (127, 19934), (131, 19958), (133, 19964), (140, 20018), (141, 20024), (165, 20294), (172, 20360), (174, 20378), (176, 20396), (182, 20555), (184, 20582), (186, 20600), (189, 20627), (191, 20663), (193, 20681), (195, 20687), (196, 20714), (197, 20720), (203, 20762), (215, 20903), (217, 20954), (230, 21098), (235, 21134), (236, 21137), (242, 21185), (245, 21209), (247, 21245), (248, 21248), (249, 21257), (251, 21293), (253, 21308),

Gene: Bartholomew_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Bartholomew_21:

(Start: 9 @19038 has 28 MA's), (Start: 10 @19047 has 21 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: Bhagsy_21 Start: 19045, Stop: 21306, Start Num: 9

Candidate Starts for Bhagsy_21:

(Start: 9 @19045 has 28 MA's), (33, 19198), (65, 19471), (67, 19483), (71, 19504), (76, 19528), (84, 19603), (93, 19675), (98, 19705), (103, 19741), (109, 19804), (113, 19819), (118, 19846), (119, 19852), (127, 19927), (131, 19951), (133, 19957), (140, 20011), (141, 20017), (165, 20287), (172, 20353), (174, 20371), (176, 20389), (182, 20548), (184, 20575), (186, 20593), (189, 20620), (191, 20656), (193, 20674), (195, 20680), (196, 20707), (197, 20713), (203, 20755), (215, 20896), (217, 20947), (230, 21091), (235, 21127), (236, 21130), (242, 21178), (245, 21202), (247, 21238), (248, 21241), (249, 21250), (251, 21286), (253, 21301),

Gene: Bluvara_21 Start: 19092, Stop: 21380, Start Num: 5

Candidate Starts for Bluvara_21:

(Start: 5 @19092 has 4 MA's), (Start: 10 @19116 has 21 MA's), (24, 19227), (27, 19236), (33, 19263), (50, 19410), (65, 19545), (67, 19557), (71, 19578), (76, 19602), (84, 19677), (93, 19749), (98, 19779), (103, 19815), (109, 19878), (113, 19893), (118, 19920), (119, 19926), (120, 19929), (127, 20001), (131, 20025), (133, 20031), (140, 20085), (141, 20091), (165, 20361), (172, 20427), (174, 20445), (176, 20463), (182, 20622), (184, 20649), (186, 20667), (189, 20694), (191, 20730), (193, 20748), (195, 20754), (196, 20781), (197, 20787), (203, 20829), (215, 20970), (217, 21021), (230, 21165), (235, 21201), (236, 21204), (242, 21252), (245, 21276), (247, 21312), (248, 21315), (249, 21324), (251, 21360), (253, 21375),

Gene: Bongo_30 Start: 24622, Stop: 26973, Start Num: 8

Candidate Starts for Bongo_30:

(Start: 8 @24622 has 13 MA's), (23, 24742), (26, 24757), (37, 24829), (39, 24850), (41, 24862), (44, 24889), (46, 24898), (65, 25084), (77, 25147), (84, 25216), (88, 25243), (97, 25315), (99, 25318), (101, 25339), (120, 25474), (127, 25555), (130, 25570), (131, 25579), (133, 25585), (147, 25708), (159, 25864), (162, 25882), (163, 25897), (172, 25981), (174, 25999), (175, 26008), (176, 26017), (181, 26164), (182, 26176), (187, 26242), (191, 26284), (195, 26308), (197, 26341), (204, 26395), (207, 26434), (209, 26446), (218, 26578), (223, 26623), (231, 26749), (235, 26773), (237, 26782), (239, 26791), (240, 26803), (241, 26815), (242, 26830), (247, 26890), (252, 26959),

Gene: Bosection6_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Bosection6_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Bricole_30 Start: 24608, Stop: 26959, Start Num: 8

Candidate Starts for Bricole_30:

(Start: 8 @24608 has 13 MA's), (23, 24728), (26, 24743), (37, 24815), (39, 24836), (41, 24848), (44, 24875), (46, 24884), (65, 25070), (77, 25133), (84, 25202), (88, 25229), (97, 25301), (99, 25304), (101, 25325), (120, 25460), (127, 25541), (130, 25556), (131, 25565), (133, 25571), (147, 25694), (159, 25850), (162, 25868), (163, 25883), (172, 25967), (174, 25985), (175, 25994), (181, 26150), (182, 26162), (187, 26228), (191, 26270), (195, 26294), (197, 26327), (204, 26381), (207, 26420), (209, 26432), (218, 26564), (223, 26609), (231, 26735), (235, 26759), (237, 26768), (239, 26777), (240, 26789), (241, 26801), (242, 26816), (247, 26876), (252, 26945),

Gene: Brusacoram_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Brusacoram_21:

(Start: 9 @19038 has 28 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (136, 19962), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: Bunnies_21 Start: 19060, Stop: 21321, Start Num: 9

Candidate Starts for Bunnies_21:

(Start: 9 @19060 has 28 MA's), (Start: 10 @19069 has 21 MA's), (33, 19213), (65, 19486), (67, 19498), (71, 19519), (76, 19543), (84, 19618), (93, 19690), (98, 19720), (103, 19756), (109, 19819), (113, 19834), (118, 19861), (119, 19867), (127, 19942), (131, 19966), (133, 19972), (140, 20026), (141, 20032), (165, 20302), (172, 20368), (176, 20404), (182, 20563), (184, 20590), (186, 20608), (189, 20635), (191, 20671), (193, 20689), (195, 20695), (196, 20722), (197, 20728), (203, 20770), (215, 20911), (217, 20962), (230, 21106), (235, 21142), (236, 21145), (242, 21193), (245, 21217), (247, 21253), (248, 21256), (249, 21265), (251, 21301), (253, 21316),

Gene: Camster_21 Start: 19039, Stop: 21300, Start Num: 9

Candidate Starts for Camster_21:

(Start: 9 @19039 has 28 MA's), (33, 19192), (65, 19465), (67, 19477), (71, 19498), (76, 19522), (84, 19597), (93, 19669), (98, 19699), (103, 19735), (109, 19798), (113, 19813), (118, 19840), (119, 19846), (127, 19921), (131, 19945), (133, 19951), (140, 20005), (141, 20011), (165, 20281), (172, 20347), (174, 20365), (176, 20383), (182, 20542), (184, 20569), (186, 20587), (189, 20614), (191, 20650), (193, 20668), (195, 20674), (196, 20701), (197, 20707), (203, 20749), (215, 20890), (217, 20941), (230, 21085), (235, 21121), (236, 21124), (242, 21172), (245, 21196), (247, 21232), (248, 21235), (249, 21244), (251, 21280), (253, 21295),

Gene: Carcharodon_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Carcharodon_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Cepens_24 Start: 27217, Stop: 29346, Start Num: 31

Candidate Starts for Cepens_24:

(Start: 31 @27217 has 4 MA's), (40, 27286), (45, 27319), (47, 27340), (54, 27397), (58, 27427), (59, 27445), (72, 27538), (73, 27541), (81, 27595), (92, 27679), (100, 27715), (101, 27733), (102, 27736), (107, 27784), (111, 27823), (116, 27859), (120, 27877), (124, 27931), (126, 27943), (129, 27967), (132, 27991), (135, 28003), (137, 28018), (139, 28033), (142, 28075), (148, 28132), (149, 28156), (165, 28327), (172, 28393), (174, 28411), (176, 28429), (182, 28588), (184, 28615), (186, 28633), (189, 28660), (191, 28696), (193, 28714), (195, 28720), (196, 28747), (197, 28753), (203, 28795), (215, 28936), (217, 28987), (230, 29131), (235, 29167), (236, 29170), (242, 29218), (245, 29242), (247, 29278), (248, 29281), (249, 29290), (251, 29326), (253, 29341),

Gene: Charlie_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Charlie_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Chewbacca_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Chewbacca_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Chubbello_21 Start: 19037, Stop: 21298, Start Num: 9

Candidate Starts for Chubbello_21:

(Start: 9 @19037 has 28 MA's), (Start: 10 @19046 has 21 MA's), (33, 19190), (65, 19463), (67, 19475), (71, 19496), (76, 19520), (84, 19595), (93, 19667), (98, 19697), (103, 19733), (109, 19796), (113, 19811), (118, 19838), (119, 19844), (127, 19919), (131, 19943), (133, 19949), (140, 20003), (141, 20009), (165, 20279), (172, 20345), (174, 20363), (176, 20381), (182, 20540), (184, 20567), (186, 20585), (189, 20612), (191, 20648), (193, 20666), (195, 20672), (196, 20699), (197, 20705), (203, 20747), (215, 20888), (217, 20939), (230, 21083), (235, 21119), (236, 21122), (242, 21170), (245, 21194), (247, 21230), (248, 21233), (249, 21242), (251, 21278), (253, 21293),

Gene: Cubone_20 Start: 17578, Stop: 19572, Start Num: 10

Candidate Starts for Cubone_20:

(Start: 9 @17566 has 28 MA's), (Start: 10 @17578 has 21 MA's), (13, 17590), (15, 17602), (21, 17656), (32, 17725), (33, 17728), (34, 17737), (36, 17752), (55, 17914), (61, 17992), (63, 18007), (68, 18037), (78, 18085), (80, 18109), (82, 18127), (87, 18175), (91, 18211), (95, 18235), (110, 18370), (122, 18427), (124, 18472), (134, 18532), (139, 18565), (140, 18574), (148, 18655), (159, 18799), (163, 18832), (165, 18850), (167, 18874), (170, 18886), (171, 18907), (172, 18937), (173, 18952), (174, 18955), (177, 18976), (179, 19066), (182, 19132), (185, 19174), (186, 19177), (190, 19207), (191, 19240), (193, 19261), (194, 19264), (199, 19321), (203, 19345), (205, 19360), (206, 19390), (208, 19396), (213, 19474), (214, 19477), (216, 19531), (219, 19555),

Gene: Diminimus_31 Start: 24621, Stop: 26972, Start Num: 8

Candidate Starts for Diminimus_31:

(Start: 8 @24621 has 13 MA's), (23, 24741), (26, 24756), (37, 24828), (39, 24849), (41, 24861), (44, 24888), (46, 24897), (65, 25083), (77, 25146), (84, 25215), (88, 25242), (99, 25317), (101, 25338), (120, 25473), (127, 25554), (130, 25569), (131, 25578), (133, 25584), (147, 25707), (159, 25863), (162, 25881), (163, 25896), (172, 25980), (174, 25998), (175, 26007), (176, 26016), (181, 26163), (182, 26175), (187, 26241), (191, 26283), (195, 26307), (197, 26340), (204, 26394), (207, 26433), (209, 26445), (218, 26577), (223, 26622), (231, 26748), (235, 26772), (237, 26781), (239, 26790), (240, 26802), (241, 26814), (242, 26829), (247, 26889), (252, 26958),

Gene: Donovan_21 Start: 19027, Stop: 21288, Start Num: 9

Candidate Starts for Donovan_21:

(Start: 9 @19027 has 28 MA's), (Start: 10 @19036 has 21 MA's), (33, 19180), (65, 19453), (67, 19465), (71, 19486), (76, 19510), (84, 19585), (93, 19657), (98, 19687), (103, 19723), (109, 19786), (113, 19801), (118, 19828), (119, 19834), (127, 19909), (131, 19933), (133, 19939), (140, 19993), (141, 19999), (165, 20269), (172, 20335), (174, 20353), (176, 20371), (182, 20530), (184, 20557), (186, 20575), (189, 20602), (191, 20638), (193, 20656), (195, 20662), (196, 20689), (197, 20695), (203, 20737), (215, 20878), (217, 20929), (230, 21073), (235, 21109), (236, 21112), (242, 21160), (245, 21184), (247, 21220), (248, 21223), (249, 21232), (251, 21268), (253, 21283),

Gene: Dulcita_31 Start: 24621, Stop: 26972, Start Num: 8

Candidate Starts for Dulcita_31:

(Start: 8 @24621 has 13 MA's), (23, 24741), (26, 24756), (37, 24828), (39, 24849), (41, 24861), (44, 24888), (46, 24897), (65, 25083), (77, 25146), (84, 25215), (88, 25242), (99, 25317), (101, 25338), (120, 25473), (127, 25554), (130, 25569), (131, 25578), (133, 25584), (147, 25707), (159, 25863), (162, 25881), (163, 25896), (172, 25980), (174, 25998), (175, 26007), (176, 26016), (181, 26163), (182, 26175), (187, 26241), (191, 26283), (195, 26307), (197, 26340), (204, 26394), (207, 26433), (209, 26445), (218, 26577), (223, 26622), (231, 26748), (235, 26772), (237, 26781), (239, 26790), (240, 26802), (241, 26814), (242, 26829), (247, 26889), (252, 26958),

Gene: Duplicity_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Duplicity_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: EGUunicorn_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for EGUunicorn_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Etoile_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Etoile_21:

(Start: 9 @19038 has 28 MA's), (Start: 10 @19047 has 21 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: FirstPlacePfu_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for FirstPlacePfu_21:

(Start: 9 @19038 has 28 MA's), (Start: 10 @19047 has 21 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: Fishburne_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Fishburne_21:

(Start: 9 @19038 has 28 MA's), (Start: 10 @19047 has 21 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: FreakyGoo_31 Start: 24622, Stop: 26973, Start Num: 8

Candidate Starts for FreakyGoo_31:

(Start: 8 @24622 has 13 MA's), (23, 24742), (26, 24757), (37, 24829), (39, 24850), (41, 24862), (44, 24889), (46, 24898), (65, 25084), (77, 25147), (84, 25216), (88, 25243), (97, 25315), (99, 25318), (101, 25339), (120, 25474), (127, 25555), (130, 25570), (131, 25579), (133, 25585), (147, 25708), (159, 25864), (162, 25882), (163, 25897), (172, 25981), (174, 25999), (175, 26008), (176, 26017), (181, 26164), (182, 26176), (187, 26242), (191, 26284), (195, 26308), (197, 26341), (204, 26395), (207, 26434), (209, 26446), (218, 26578), (223, 26623), (231, 26749), (235, 26773), (237, 26782), (239, 26791), (240, 26803), (241, 26815), (242, 26830), (247, 26890), (252, 26959),

Gene: GaloreK_21 Start: 19034, Stop: 21295, Start Num: 9

Candidate Starts for GaloreK_21:

(Start: 9 @19034 has 28 MA's), (Start: 10 @19043 has 21 MA's), (33, 19187), (65, 19460), (67, 19472), (71, 19493), (76, 19517), (84, 19592), (93, 19664), (98, 19694), (103, 19730), (109, 19793), (113, 19808), (118, 19835), (119, 19841), (127, 19916), (131, 19940), (133, 19946), (140, 20000), (141, 20006), (165, 20276), (172, 20342), (174, 20360), (176, 20378), (182, 20537), (184, 20564), (186, 20582), (189, 20609), (191, 20645), (193, 20663), (195, 20669), (196, 20696), (197, 20702), (203, 20744), (215, 20885), (217, 20936), (230, 21080), (235, 21116), (236, 21119), (242, 21167), (245, 21191), (247, 21227), (248, 21230), (249, 21239), (251, 21275), (253, 21290),

Gene: Gex_20 Start: 17552, Stop: 19546, Start Num: 10

Candidate Starts for Gex_20:

(Start: 9 @17540 has 28 MA's), (Start: 10 @17552 has 21 MA's), (13, 17564), (15, 17576), (21, 17630), (32, 17699), (33, 17702), (34, 17711), (36, 17726), (55, 17888), (61, 17966), (63, 17981), (68, 18011), (78, 18059), (80, 18083), (82, 18101), (87, 18149), (91, 18185), (95, 18209), (110, 18344), (122, 18401), (124, 18446), (134, 18506), (139, 18539), (140, 18548), (148, 18629), (159, 18773), (163, 18806), (165, 18824), (167, 18848), (170, 18860), (171, 18881), (172, 18911), (173, 18926), (174, 18929), (177, 18950), (179, 19040), (182, 19106), (185, 19148), (186, 19151), (190, 19181), (191, 19214), (193, 19235), (194, 19238), (199, 19295), (203, 19319), (205, 19334), (206, 19364), (208, 19370), (213, 19448), (214, 19451), (216, 19505), (219, 19529),

Gene: Glaske16_31 Start: 24621, Stop: 26972, Start Num: 8

Candidate Starts for Glaske16_31:

(Start: 8 @24621 has 13 MA's), (23, 24741), (26, 24756), (37, 24828), (39, 24849), (41, 24861), (44, 24888), (46, 24897), (65, 25083), (77, 25146), (84, 25215), (88, 25242), (99, 25317), (101, 25338), (120, 25473), (127, 25554), (130, 25569), (131, 25578), (133, 25584), (147, 25707), (159, 25863), (162, 25881), (163, 25896), (172, 25980), (174, 25998), (175, 26007), (181, 26163), (182, 26175), (187, 26241), (191, 26283), (195, 26307), (197, 26340), (204, 26394), (207, 26433), (209, 26445), (218, 26577), (223, 26622), (231, 26748), (235, 26772), (237, 26781), (239, 26790), (240, 26802), (241, 26814), (242, 26829), (247, 26889), (252, 26958),

Gene: GreaseLightnin_21 Start: 19044, Stop: 21344, Start Num: 4

Candidate Starts for GreaseLightnin_21:

(Start: 4 @19044 has 13 MA's), (Start: 9 @19053 has 28 MA's), (33, 19197), (65, 19470), (67, 19482), (71, 19503), (95, 19683), (101, 19731), (103, 19746), (104, 19761), (106, 19767), (108, 19785), (109, 19809), (113, 19824), (114, 19833), (119, 19860), (121, 19866), (124, 19911), (127, 19935), (130, 19947), (131, 19956), (133, 19962), (138, 19998), (140, 20016), (161, 20250), (165, 20292), (172, 20358), (174, 20376), (176, 20394), (182, 20553), (184, 20580), (185, 20595), (186, 20598), (191, 20661), (192, 20670), (195, 20685), (202, 20751), (208, 20814), (209, 20823), (217, 20949), (219, 20970), (223, 21006), (224, 21012), (225, 21024), (226, 21027), (228, 21066), (231, 21129), (233, 21138), (236, 21156),

Gene: Gsput1_25 Start: 19933, Stop: 21690, Start Num: 60

Candidate Starts for Gsput1_25:

(60, 19933), (70, 19987), (73, 20002), (81, 20056), (83, 20080), (85, 20098), (89, 20131), (96, 20194), (101, 20218), (105, 20248), (111, 20302), (112, 20305), (115, 20332), (123, 20374), (128, 20428), (138, 20488), (143, 20536), (145, 20551), (146, 20566), (150, 20626), (151, 20659), (152, 20665), (153, 20671), (155, 20680), (156, 20683), (157, 20710), (160, 20740), (164, 20773), (166, 20785), (168, 20803), (173, 20860), (178, 20947), (180, 21019), (183, 21049), (188, 21067), (191, 21082), (198, 21148), (200, 21163), (202, 21172), (210, 21256), (220, 21394), (227, 21487), (238, 21592), (244, 21637),

Gene: HC_21 Start: 19081, Stop: 21369, Start Num: 5

Candidate Starts for HC_21:

(Start: 5 @19081 has 4 MA's), (Start: 10 @19105 has 21 MA's), (24, 19216), (27, 19225), (33, 19252), (50, 19399), (65, 19534), (67, 19546), (71, 19567), (76, 19591), (84, 19666), (93, 19738), (98, 19768), (103, 19804), (109, 19867), (113, 19882), (118, 19909), (119, 19915), (120, 19918), (127, 19990), (131, 20014), (133, 20020), (140, 20074), (141, 20080), (165, 20350), (172, 20416), (174, 20434), (176, 20452), (182, 20611), (184, 20638), (186, 20656), (189, 20683), (191, 20719), (193, 20737), (195, 20743), (196, 20770), (197, 20776), (203, 20818), (215, 20959), (217, 21010), (230, 21154), (235, 21190), (236, 21193), (242, 21241), (245, 21265), (247, 21301), (248, 21304), (249, 21313), (251, 21349), (253, 21364),

Gene: HUHilltop_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for HUHilltop_21:

(Start: 9 @19038 has 28 MA's), (Start: 10 @19047 has 21 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: Hanako_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for Hanako_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (65, 17992), (67, 18004), (71, 18025), (79, 18070), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (108, 18307), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (161, 18772), (165, 18814), (173, 18895), (174, 18898), (176, 18916), (178, 18982), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: IPhone7_30 Start: 24622, Stop: 26973, Start Num: 8

Candidate Starts for IPhone7_30:

(Start: 8 @24622 has 13 MA's), (23, 24742), (26, 24757), (37, 24829), (39, 24850), (41, 24862), (44, 24889), (46, 24898), (65, 25084), (77, 25147), (84, 25216), (88, 25243), (97, 25315), (99, 25318), (101, 25339), (120, 25474), (127, 25555), (130, 25570), (131, 25579), (133, 25585), (147, 25708), (159, 25864), (162, 25882), (163, 25897), (172, 25981), (174, 25999), (175, 26008), (176, 26017), (181, 26164), (182, 26176), (187, 26242), (191, 26284), (195, 26308), (197, 26341), (204, 26395), (207, 26434), (209, 26446), (218, 26578), (223, 26623), (231, 26749), (235, 26773), (237, 26782), (239, 26791), (240, 26803), (241, 26815), (242, 26830), (247, 26890), (252, 26959),

Gene: Izel_31 Start: 24621, Stop: 26972, Start Num: 8

Candidate Starts for Izel_31:

(Start: 8 @24621 has 13 MA's), (23, 24741), (26, 24756), (37, 24828), (39, 24849), (41, 24861), (44, 24888), (46, 24897), (65, 25083), (77, 25146), (84, 25215), (88, 25242), (99, 25317), (101, 25338), (120, 25473), (127, 25554), (130, 25569), (131, 25578), (133, 25584), (147, 25707), (159, 25863), (162, 25881), (163, 25896), (172, 25980), (174, 25998), (175, 26007), (176, 26016), (181, 26163), (182, 26175), (187, 26241), (191, 26283), (195, 26307), (197, 26340), (204, 26394), (207, 26433), (209, 26445), (218, 26577), (223, 26622), (231, 26748), (235, 26772), (237, 26781), (239, 26790), (240, 26802), (241, 26814), (242, 26829), (247, 26889), (252, 26958),

Gene: Jamie19_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for Jamie19_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (57, 17920), (65, 17992), (67, 18004), (71, 18025), (74, 18037), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (107, 18304), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (125, 18442), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (135, 18493), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (165, 18814), (172, 18880), (174, 18898), (176, 18916), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: Jebeks_21 Start: 19023, Stop: 21284, Start Num: 9

Candidate Starts for Jebeks_21:

(Start: 9 @19023 has 28 MA's), (Start: 10 @19032 has 21 MA's), (33, 19176), (65, 19449), (67, 19461), (71, 19482), (76, 19506), (84, 19581), (93, 19653), (98, 19683), (103, 19719), (109, 19782), (113, 19797), (118, 19824), (119, 19830), (127, 19905), (131, 19929), (133, 19935), (140, 19989), (141, 19995), (165, 20265), (172, 20331), (174, 20349), (176, 20367), (182, 20526), (184, 20553), (186, 20571), (189, 20598), (191, 20634), (193, 20652), (195, 20658), (196, 20685), (197, 20691), (203, 20733), (215, 20874), (217, 20925), (230, 21069), (235, 21105), (236, 21108), (242, 21156), (245, 21180), (247, 21216), (248, 21219), (249, 21228), (251, 21264), (253, 21279),

Gene: Journey_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Journey_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Jung_21 Start: 18964, Stop: 21225, Start Num: 9

Candidate Starts for Jung_21:

(Start: 9 @18964 has 28 MA's), (Start: 10 @18973 has 21 MA's), (33, 19117), (65, 19390), (67, 19402), (71, 19423), (75, 19444), (84, 19522), (93, 19594), (98, 19624), (103, 19660), (109, 19723), (113, 19738), (119, 19771), (120, 19774), (127, 19846), (131, 19870), (133, 19876), (140, 19930), (141, 19936), (165, 20206), (172, 20272), (174, 20290), (176, 20308), (182, 20467), (186, 20512), (189, 20539), (191, 20575), (193, 20593), (195, 20599), (196, 20626), (197, 20632), (203, 20674), (215, 20815), (217, 20866), (230, 21010), (235, 21046), (236, 21049), (242, 21097), (245, 21121), (247, 21157), (248, 21160), (249, 21169), (251, 21205), (253, 21220),

Gene: Juniormint_21 Start: 19064, Stop: 21325, Start Num: 9

Candidate Starts for Juniormint_21:

(Start: 9 @19064 has 28 MA's), (Start: 10 @19073 has 21 MA's), (33, 19217), (65, 19490), (67, 19502), (71, 19523), (76, 19547), (84, 19622), (93, 19694), (98, 19724), (103, 19760), (109, 19823), (113, 19838), (118, 19865), (119, 19871), (127, 19946), (131, 19970), (133, 19976), (140, 20030), (141, 20036), (165, 20306), (172, 20372), (174, 20390), (176, 20408), (182, 20567), (184, 20594), (186, 20612), (189, 20639), (191, 20675), (193, 20693), (195, 20699), (196, 20726), (197, 20732), (203, 20774), (215, 20915), (217, 20966), (230, 21110), (235, 21146), (236, 21149), (242, 21197), (245, 21221), (247, 21257), (248, 21260), (249, 21269), (251, 21305), (253, 21320),

Gene: Kari_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Kari_21:

(Start: 9 @19038 has 28 MA's), (Start: 10 @19047 has 21 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: KleverKiS_30 Start: 24605, Stop: 26953, Start Num: 8

Candidate Starts for KleverKiS_30:

(Start: 8 @24605 has 13 MA's), (23, 24725), (26, 24740), (37, 24812), (39, 24833), (41, 24845), (44, 24872), (46, 24881), (49, 24911), (51, 24938), (53, 24965), (64, 25061), (65, 25067), (69, 25091), (79, 25145), (88, 25226), (97, 25298), (99, 25301), (101, 25322), (120, 25457), (121, 25460), (127, 25538), (133, 25565), (138, 25601), (139, 25604), (141, 25625), (154, 25790), (158, 25826), (159, 25844), (163, 25877), (172, 25961), (174, 25979), (175, 25988), (181, 26144), (182, 26156), (187, 26222), (191, 26264), (195, 26288), (197, 26321), (204, 26375), (207, 26414), (209, 26426), (218, 26558), (223, 26603), (231, 26729), (235, 26753), (237, 26762), (239, 26771), (240, 26783), (241, 26795), (242, 26810), (247, 26870), (252, 26939),

Gene: Ksquared_21 Start: 19060, Stop: 21321, Start Num: 9

Candidate Starts for Ksquared_21:

(Start: 9 @19060 has 28 MA's), (Start: 10 @19069 has 21 MA's), (33, 19213), (65, 19486), (67, 19498), (71, 19519), (76, 19543), (84, 19618), (93, 19690), (98, 19720), (103, 19756), (109, 19819), (113, 19834), (118, 19861), (119, 19867), (127, 19942), (131, 19966), (133, 19972), (140, 20026), (141, 20032), (165, 20302), (172, 20368), (174, 20386), (176, 20404), (182, 20563), (184, 20590), (186, 20608), (189, 20635), (191, 20671), (193, 20689), (195, 20695), (196, 20722), (197, 20728), (203, 20770), (215, 20911), (217, 20962), (230, 21106), (235, 21142), (236, 21145), (242, 21193), (245, 21217), (247, 21253), (248, 21256), (249, 21265), (251, 21301), (253, 21316),

Gene: Langerak_21 Start: 19022, Stop: 21283, Start Num: 9

Candidate Starts for Langerak_21:

(Start: 9 @19022 has 28 MA's), (Start: 10 @19031 has 21 MA's), (33, 19175), (65, 19448), (67, 19460), (71, 19481), (76, 19505), (84, 19580), (93, 19652), (98, 19682), (103, 19718), (109, 19781), (113, 19796), (118, 19823), (119, 19829), (127, 19904), (131, 19928), (133, 19934), (140, 19988), (141, 19994), (165, 20264), (172, 20330), (174, 20348), (176, 20366), (182, 20525), (184, 20552), (186, 20570), (189, 20597), (191, 20633), (193, 20651), (195, 20657), (196, 20684), (197, 20690), (203, 20732), (215, 20873), (217, 20924), (230, 21068), (235, 21104), (236, 21107), (242, 21155), (245, 21179), (247, 21215), (248, 21218), (249, 21227), (251, 21263), (253, 21278),

Gene: Laurie_32 Start: 29962, Stop: 32097, Start Num: 29

Candidate Starts for Laurie_32:

(Start: 29 @29962 has 1 MA's), (38, 30016), (43, 30055), (45, 30073), (48, 30100), (51, 30124), (52, 30127), (56, 30160), (68, 30268), (72, 30289), (73, 30292), (81, 30346), (90, 30406), (92, 30430), (100,

30466), (104, 30514), (107, 30535), (111, 30574), (117, 30613), (120, 30628), (124, 30682), (126, 30694), (129, 30718), (132, 30742), (135, 30754), (137, 30769), (139, 30784), (142, 30826), (144, 30844), (148, 30883), (149, 30907), (165, 31078), (172, 31144), (174, 31162), (176, 31180), (182, 31339), (184, 31366), (186, 31384), (189, 31411), (191, 31447), (193, 31465), (195, 31471), (196, 31498), (197, 31504), (203, 31546), (215, 31687), (217, 31738), (230, 31882), (235, 31918), (236, 31921), (242, 31969), (245, 31993), (247, 32029), (248, 32032), (249, 32041), (251, 32077), (253, 32092),

Gene: LilSpotty_23 Start: 18458, Stop: 20518, Start Num: 1

Candidate Starts for LilSpotty_23:

(Start: 1 @18458 has 1 MA's), (20, 18599), (22, 18611), (27, 18653), (33, 18680), (39, 18731), (55, 18860), (61, 18938), (63, 18953), (68, 18983), (78, 19031), (80, 19055), (82, 19073), (87, 19121), (91, 19157), (95, 19181), (110, 19316), (122, 19373), (124, 19418), (134, 19478), (139, 19511), (140, 19520), (148, 19601), (159, 19745), (163, 19778), (165, 19796), (167, 19820), (170, 19832), (171, 19853), (172, 19883), (173, 19898), (174, 19901), (177, 19922), (179, 20012), (182, 20078), (185, 20120), (186, 20123), (190, 20153), (191, 20186), (193, 20207), (194, 20210), (199, 20267), (203, 20291), (205, 20306), (206, 20336), (208, 20342), (213, 20420), (214, 20423), (216, 20477), (219, 20501),

Gene: LilhomieP_29 Start: 24622, Stop: 26973, Start Num: 8

Candidate Starts for LilhomieP_29:

(Start: 8 @24622 has 13 MA's), (23, 24742), (26, 24757), (37, 24829), (39, 24850), (41, 24862), (44, 24889), (46, 24898), (65, 25084), (77, 25147), (84, 25216), (88, 25243), (97, 25315), (99, 25318), (101, 25339), (120, 25474), (127, 25555), (130, 25570), (131, 25579), (133, 25585), (147, 25708), (159, 25864), (162, 25882), (163, 25897), (172, 25981), (174, 25999), (175, 26008), (176, 26017), (181, 26164), (182, 26176), (187, 26242), (191, 26284), (195, 26308), (197, 26341), (204, 26395), (207, 26434), (209, 26446), (218, 26578), (223, 26623), (231, 26749), (235, 26773), (237, 26782), (239, 26791), (240, 26803), (241, 26815), (242, 26830), (247, 26890), (252, 26959),

Gene: LordVader_20 Start: 17314, Stop: 19476, Start Num: 7

Candidate Starts for LordVader_20:

(Start: 7 @17314 has 2 MA's), (Start: 10 @17335 has 21 MA's), (14, 17356), (19, 17395), (28, 17464), (32, 17473), (33, 17476), (35, 17494), (39, 17527), (42, 17542), (57, 17644), (62, 17701), (66, 17725), (78, 17782), (95, 17929), (101, 17977), (103, 17992), (106, 18013), (109, 18055), (113, 18070), (114, 18079), (119, 18106), (121, 18112), (127, 18181), (131, 18202), (133, 18208), (135, 18217), (138, 18244), (165, 18538), (169, 18565), (172, 18604), (174, 18622), (176, 18640), (179, 18733), (195, 18865), (201, 18925), (217, 19132), (221, 19159), (222, 19180), (229, 19243), (232, 19282), (235, 19300), (243, 19348), (245, 19366), (246, 19372),

Gene: Magsby_20 Start: 17553, Stop: 19547, Start Num: 10

Candidate Starts for Magsby_20:

(Start: 9 @17541 has 28 MA's), (Start: 10 @17553 has 21 MA's), (13, 17565), (15, 17577), (21, 17631), (32, 17700), (33, 17703), (34, 17712), (36, 17727), (55, 17889), (61, 17967), (63, 17982), (68, 18012), (78, 18060), (80, 18084), (82, 18102), (87, 18150), (91, 18186), (95, 18210), (110, 18345), (122, 18402), (124, 18447), (134, 18507), (139, 18540), (140, 18549), (148, 18630), (159, 18774), (163, 18807), (165, 18825), (167, 18849), (170, 18861), (171, 18882), (172, 18912), (173, 18927), (174, 18930), (177, 18951), (179, 19041), (182, 19107), (185, 19149), (186, 19152), (190, 19182), (191, 19215), (193, 19236), (194, 19239), (199, 19296), (203, 19320), (205, 19335), (206, 19365), (208, 19371), (213, 19449), (214, 19452), (216, 19506), (219, 19530),

Gene: Majeke_21 Start: 19044, Stop: 21305, Start Num: 9

Candidate Starts for Majeke_21:

(Start: 9 @19044 has 28 MA's), (33, 19197), (65, 19470), (67, 19482), (71, 19503), (76, 19527), (84, 19602), (93, 19674), (98, 19704), (103, 19740), (109, 19803), (113, 19818), (118, 19845), (119, 19851), (127, 19926), (131, 19950), (133, 19956), (136, 19968), (140, 20010), (141, 20016), (165, 20286), (172, 20352), (174, 20370), (176, 20388), (182, 20547), (184, 20574), (186, 20592), (189, 20619), (191, 20655), (193, 20673), (195, 20679), (196, 20706), (197, 20712), (203, 20754), (215, 20895), (217, 20946), (230, 21090), (235, 21126), (236, 21129), (242, 21177), (245, 21201), (247, 21237), (248, 21240), (249, 21249), (251, 21285), (253, 21300),

Gene: Malithi_21 Start: 18963, Stop: 21224, Start Num: 9

Candidate Starts for Malithi_21:

(Start: 9 @18963 has 28 MA's), (Start: 10 @18972 has 21 MA's), (33, 19116), (64, 19383), (65, 19389), (67, 19401), (71, 19422), (76, 19446), (84, 19521), (93, 19593), (98, 19623), (103, 19659), (109, 19722), (113, 19737), (118, 19764), (119, 19770), (127, 19845), (131, 19869), (133, 19875), (140, 19929), (141, 19935), (165, 20205), (172, 20271), (174, 20289), (176, 20307), (182, 20466), (184, 20493), (186, 20511), (189, 20538), (191, 20574), (193, 20592), (195, 20598), (196, 20625), (197, 20631), (203, 20673), (215, 20814), (217, 20865), (230, 21009), (235, 21045), (236, 21048), (242, 21096), (245, 21120), (247, 21156), (248, 21159), (249, 21168), (251, 21204), (253, 21219),

Gene: Mangethe_21 Start: 19044, Stop: 21305, Start Num: 9

Candidate Starts for Mangethe_21:

(Start: 9 @19044 has 28 MA's), (33, 19197), (65, 19470), (67, 19482), (71, 19503), (76, 19527), (84, 19602), (93, 19674), (98, 19704), (103, 19740), (109, 19803), (113, 19818), (118, 19845), (119, 19851), (127, 19926), (131, 19950), (133, 19956), (136, 19968), (140, 20010), (141, 20016), (165, 20286), (172, 20352), (174, 20370), (176, 20388), (182, 20547), (184, 20574), (186, 20592), (189, 20619), (191, 20655), (193, 20673), (195, 20679), (196, 20706), (197, 20712), (203, 20754), (215, 20895), (217, 20946), (230, 21090), (235, 21126), (236, 21129), (242, 21177), (245, 21201), (247, 21237), (248, 21240), (249, 21249), (251, 21285), (253, 21300),

Gene: Megabear_24 Start: 27160, Stop: 29289, Start Num: 31

Candidate Starts for Megabear_24:

(Start: 31 @27160 has 4 MA's), (40, 27229), (45, 27262), (47, 27283), (54, 27340), (58, 27370), (59, 27388), (72, 27481), (73, 27484), (81, 27538), (92, 27622), (100, 27658), (101, 27676), (102, 27679), (107, 27727), (111, 27766), (116, 27802), (120, 27820), (124, 27874), (126, 27886), (129, 27910), (132, 27934), (135, 27946), (137, 27961), (139, 27976), (142, 28018), (148, 28075), (149, 28099), (165, 28270), (172, 28336), (174, 28354), (176, 28372), (182, 28531), (184, 28558), (186, 28576), (189, 28603), (191, 28639), (193, 28657), (195, 28663), (196, 28690), (197, 28696), (203, 28738), (215, 28879), (217, 28930), (230, 29074), (235, 29110), (236, 29113), (242, 29161), (245, 29185), (247, 29221), (248, 29224), (249, 29233), (251, 29269), (253, 29284),

Gene: Melville_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Melville_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: MilanaBonita_19 Start: 18067, Stop: 20265, Start Num: 7

Candidate Starts for MilanaBonita_19:

(3, 18055), (Start: 7 @18067 has 2 MA's), (Start: 10 @18088 has 21 MA's), (14, 18109), (19, 18148), (28, 18217), (32, 18226), (33, 18229), (39, 18280), (42, 18295), (50, 18370), (65, 18505), (67, 18517), (71, 18538), (78, 18571), (95, 18718), (103, 18781), (108, 18820), (109, 18844), (113, 18859), (114, 18868), (119, 18895), (120, 18898), (121, 18901), (127, 18970), (131, 18991), (133, 18997), (138, 19033), (140, 19051), (165, 19327), (172, 19393), (174, 19411), (176, 19429), (182, 19588), (201, 19714), (212, 19855), (215, 19870), (217, 19921), (221, 19948), (222, 19969), (232, 20071), (234, 20086), (236, 20092), (243, 20137), (245, 20155), (246, 20161), (250, 20224),

Gene: Ms6_18 Start: 17407, Stop: 19719, Start Num: 4

Candidate Starts for Ms6_18:

(2, 17395), (Start: 4 @17407 has 13 MA's), (Start: 9 @17428 has 28 MA's), (11, 17449), (18, 17488), (28, 17557), (32, 17566), (33, 17569), (39, 17620), (42, 17635), (50, 17710), (65, 17845), (67, 17857), (71, 17878), (78, 17911), (95, 18058), (101, 18106), (103, 18121), (106, 18142), (107, 18157), (109, 18184), (113, 18199), (114, 18208), (119, 18235), (121, 18241), (124, 18286), (125, 18295), (127, 18310), (130, 18322), (131, 18331), (133, 18337), (135, 18346), (138, 18373), (140, 18391), (147, 18460), (152, 18550), (165, 18667), (172, 18733), (174, 18751), (176, 18769), (181, 18916), (182, 18928), (184, 18955), (185, 18970), (186, 18973), (191, 19036), (192, 19045), (195, 19060), (202, 19126), (208, 19189), (209, 19198), (211, 19252), (217, 19324), (219, 19345), (223, 19381), (224, 19387), (225, 19399), (226, 19402), (228, 19441), (231, 19504), (233, 19513), (236, 19531),

Gene: MulchSalad_18 Start: 17319, Stop: 19319, Start Num: 9

Candidate Starts for MulchSalad_18:

(6, 17307), (Start: 9 @17319 has 28 MA's), (12, 17340), (16, 17361), (20, 17400), (28, 17469), (30, 17472), (32, 17478), (33, 17481), (35, 17499), (55, 17661), (61, 17739), (63, 17754), (68, 17784), (78, 17832), (80, 17856), (82, 17874), (87, 17922), (91, 17958), (95, 17982), (110, 18117), (122, 18174), (124, 18219), (134, 18279), (139, 18312), (140, 18321), (148, 18402), (159, 18546), (163, 18579), (165, 18597), (167, 18621), (170, 18633), (171, 18654), (172, 18684), (173, 18699), (174, 18702), (177, 18723), (179, 18813), (182, 18879), (185, 18921), (186, 18924), (190, 18954), (191, 18987), (193, 19008), (194, 19011), (199, 19068), (203, 19092), (205, 19107), (206, 19137), (208, 19143), (213, 19221), (214, 19224), (216, 19278), (219, 19302),

Gene: Necropolis_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Necropolis_21:

(Start: 9 @19038 has 28 MA's), (Start: 10 @19047 has 21 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: Nenae_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for Nenae_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (65, 17992), (67, 18004), (71, 18025), (79, 18070), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (108, 18307), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (161, 18772), (165, 18814), (173, 18895), (174, 18898), (176, 18916), (178, 18982), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: Parmesanjohn_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Parmesanjohn_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: PeanutPie_21 Start: 19045, Stop: 21306, Start Num: 9

Candidate Starts for PeanutPie_21:

(Start: 9 @19045 has 28 MA's), (33, 19198), (65, 19471), (67, 19483), (71, 19504), (76, 19528), (84, 19603), (93, 19675), (98, 19705), (103, 19741), (109, 19804), (113, 19819), (118, 19846), (119, 19852), (127, 19927), (131, 19951), (133, 19957), (140, 20011), (141, 20017), (165, 20287), (172, 20353), (174, 20371), (176, 20389), (182, 20548), (184, 20575), (186, 20593), (189, 20620), (191, 20656), (193, 20674), (195, 20680), (196, 20707), (197, 20713), (203, 20755), (215, 20896), (217, 20947), (230, 21091), (235, 21127), (236, 21130), (242, 21178), (245, 21202), (247, 21238), (248, 21241), (249, 21250), (251, 21286), (253, 21301),

Gene: PegLeg_30 Start: 24621, Stop: 26972, Start Num: 8

Candidate Starts for PegLeg_30:

(Start: 8 @24621 has 13 MA's), (23, 24741), (26, 24756), (37, 24828), (39, 24849), (41, 24861), (44, 24888), (46, 24897), (65, 25083), (77, 25146), (84, 25215), (88, 25242), (97, 25314), (99, 25317), (101, 25338), (120, 25473), (127, 25554), (130, 25569), (131, 25578), (133, 25584), (147, 25707), (159, 25863), (162, 25881), (163, 25896), (172, 25980), (174, 25998), (175, 26007), (181, 26163), (182, 26175), (187, 26241), (191, 26283), (195, 26307), (197, 26340), (204, 26394), (207, 26433), (209, 26445), (218, 26577), (223, 26622), (231, 26748), (235, 26772), (237, 26781), (239, 26790), (240, 26802), (241, 26814), (242, 26829), (247, 26889), (252, 26958),

Gene: PhancyPhin_20 Start: 17557, Stop: 19863, Start Num: 4

Candidate Starts for PhancyPhin_20:

(2, 17545), (Start: 4 @17557 has 13 MA's), (Start: 9 @17569 has 28 MA's), (27, 17680), (32, 17704), (33, 17707), (34, 17716), (65, 17989), (67, 18001), (71, 18022), (79, 18067), (95, 18202), (101, 18250), (103, 18265), (106, 18286), (108, 18304), (109, 18328), (113, 18343), (114, 18352), (119, 18379), (121, 18385), (124, 18430), (127, 18454), (130, 18466), (131, 18475), (133, 18481), (138, 18517), (140, 18535), (147, 18604), (152, 18694), (161, 18769), (165, 18811), (173, 18892), (174, 18895), (176, 18913), (178, 18979), (181, 19060), (182, 19072), (184, 19099), (185, 19114), (186, 19117), (191, 19180), (192, 19189), (195, 19204), (202, 19270), (208, 19333), (209, 19342), (211, 19396), (217, 19468), (219, 19489), (223, 19525), (224, 19531), (225, 19543), (226, 19546), (228, 19585), (231, 19648), (233, 19657), (236, 19675),

Gene: Phegasus_21 Start: 19044, Stop: 21305, Start Num: 9

Candidate Starts for Phegasus_21:

(Start: 9 @19044 has 28 MA's), (Start: 10 @19053 has 21 MA's), (33, 19197), (65, 19470), (67, 19482), (71, 19503), (76, 19527), (84, 19602), (93, 19674), (98, 19704), (103, 19740), (109, 19803), (113, 19818), (118, 19845), (119, 19851), (127, 19926), (131, 19950), (133, 19956), (140, 20010), (141, 20016), (165, 20286), (172, 20352), (174, 20370), (176, 20388), (182, 20547), (184, 20574), (186, 20592), (189, 20619), (191, 20655), (193, 20673), (195, 20679), (196, 20706), (197, 20712), (203, 20754), (215, 20895), (217, 20946), (230, 21090), (235, 21126), (236, 21129), (242, 21177), (245, 21201), (247, 21237), (248, 21240), (249, 21249), (251, 21285), (253, 21300),

Gene: Philonius_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Philonius_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Pipsqueaks_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Pipsqueaks_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Polkaroo_21 Start: 19054, Stop: 21315, Start Num: 9

Candidate Starts for Polkaroo_21:

(Start: 9 @19054 has 28 MA's), (Start: 10 @19063 has 21 MA's), (33, 19207), (65, 19480), (67, 19492), (71, 19513), (76, 19537), (84, 19612), (93, 19684), (98, 19714), (103, 19750), (109, 19813), (113, 19828), (118, 19855), (119, 19861), (127, 19936), (131, 19960), (133, 19966), (140, 20020), (141, 20026), (165, 20296), (172, 20362), (174, 20380), (176, 20398), (182, 20557), (184, 20584), (186, 20602), (189, 20629), (191, 20665), (193, 20683), (195, 20689), (196, 20716), (197, 20722), (203, 20764), (215, 20905), (217, 20956), (230, 21100), (235, 21136), (236, 21139), (242, 21187), (245, 21211), (247, 21247), (248, 21250), (249, 21259), (251, 21295), (253, 21310),

Gene: Purgamenstris_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for Purgamenstris_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (65, 17992), (67, 18004), (71, 18025), (79, 18070), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (108, 18307), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (161, 18772), (165, 18814), (173, 18895), (174, 18898), (176, 18916), (178, 18982), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: QueenHazel_21 Start: 19085, Stop: 21412, Start Num: 5

Candidate Starts for QueenHazel_21:

(Start: 5 @19085 has 4 MA's), (Start: 10 @19109 has 21 MA's), (17, 19145), (25, 19220), (27, 19229), (33, 19256), (50, 19403), (65, 19538), (67, 19550), (71, 19571), (78, 19604), (95, 19751), (103, 19814), (108, 19853), (109, 19877), (113, 19892), (114, 19901), (119, 19928), (120, 19931), (121, 19934), (127, 20003), (131, 20024), (133, 20030), (138, 20066), (140, 20084), (165, 20360), (169, 20387), (172, 20426), (174, 20444), (182, 20621), (187, 20687), (191, 20729), (192, 20738), (195, 20753), (202, 20819), (208, 20882), (209, 20891), (217, 21017), (219, 21038), (223, 21074), (224, 21080), (225, 21092), (226, 21095), (228, 21134), (231, 21197), (233, 21206), (236, 21224),

Gene: Rebel_20 Start: 17557, Stop: 19857, Start Num: 4

Candidate Starts for Rebel_20:

(2, 17545), (Start: 4 @17557 has 13 MA's), (Start: 9 @17569 has 28 MA's), (27, 17680), (32, 17704), (33, 17707), (34, 17716), (65, 17989), (67, 18001), (71, 18022), (76, 18046), (84, 18121), (94, 18193), (99, 18223), (103, 18259), (109, 18322), (113, 18337), (118, 18364), (119, 18370), (120, 18373), (127, 18445), (131, 18469), (133, 18475), (140, 18529), (141, 18535), (165, 18805), (172, 18871), (174, 18889), (176, 18907), (182, 19066), (184, 19093), (185, 19108), (186, 19111), (191, 19174), (192, 19183), (195, 19198), (202, 19264), (208, 19327), (209, 19336), (211, 19390), (217, 19462), (219, 19483), (223, 19519), (224, 19525), (225, 19537), (226, 19540), (228, 19579), (231, 19642), (233, 19651), (236, 19669),

Gene: Redi_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for Redi_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (65, 17992), (67, 18004), (71, 18025), (79, 18070), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (108, 18307), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (161, 18772), (165, 18814), (173, 18895), (174, 18898), (176, 18916), (178, 18982), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: Schnauzer_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Schnauzer_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: ShrimpFriedEgg_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for ShrimpFriedEgg_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (65, 17992), (67, 18004), (71, 18025), (79, 18070), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (108, 18307), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (161, 18772), (165, 18814), (173, 18895), (174, 18898), (176, 18916), (178, 18982), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: Silvafighter_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Silvafighter_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163,

18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Silvy_20 Start: 17557, Stop: 19551, Start Num: 10

Candidate Starts for Silvy_20:

(Start: 9 @17545 has 28 MA's), (Start: 10 @17557 has 21 MA's), (13, 17569), (15, 17581), (21, 17635), (32, 17704), (33, 17707), (34, 17716), (36, 17731), (55, 17893), (61, 17971), (63, 17986), (68, 18016), (78, 18064), (80, 18088), (82, 18106), (87, 18154), (91, 18190), (95, 18214), (110, 18349), (122, 18406), (124, 18451), (134, 18511), (139, 18544), (140, 18553), (148, 18634), (159, 18778), (163, 18811), (165, 18829), (167, 18853), (170, 18865), (171, 18886), (172, 18916), (173, 18931), (174, 18934), (177, 18955), (179, 19045), (182, 19111), (185, 19153), (186, 19156), (190, 19186), (191, 19219), (193, 19240), (194, 19243), (199, 19300), (203, 19324), (205, 19339), (206, 19369), (208, 19375), (213, 19453), (214, 19456), (216, 19510), (219, 19534),

Gene: SlimJimmy_29 Start: 24608, Stop: 26956, Start Num: 8

Candidate Starts for SlimJimmy_29:

(Start: 8 @24608 has 13 MA's), (23, 24728), (26, 24743), (37, 24815), (39, 24836), (41, 24848), (44, 24875), (46, 24884), (49, 24914), (51, 24941), (53, 24968), (64, 25064), (65, 25070), (69, 25094), (79, 25148), (86, 25211), (88, 25229), (97, 25301), (99, 25304), (101, 25325), (120, 25460), (121, 25463), (127, 25541), (133, 25568), (138, 25604), (139, 25607), (141, 25628), (154, 25793), (158, 25829), (159, 25847), (163, 25880), (172, 25964), (174, 25982), (175, 25991), (176, 26000), (181, 26147), (182, 26159), (187, 26225), (191, 26267), (195, 26291), (197, 26324), (204, 26378), (207, 26417), (209, 26429), (218, 26561), (223, 26606), (231, 26732), (235, 26756), (237, 26765), (239, 26774), (240, 26786), (241, 26798), (242, 26813), (247, 26873), (252, 26942),

Gene: Smurph_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Smurph_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Snekmaggedon_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for Snekmaggedon_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (57, 17920), (65, 17992), (67, 18004), (71, 18025), (74, 18037), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (107, 18304), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (125, 18442), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (135, 18493), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (165, 18814), (172, 18880), (174, 18898), (176, 18916), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: Sonah_21 Start: 19028, Stop: 21289, Start Num: 9

Candidate Starts for Sonah_21:

(Start: 9 @19028 has 28 MA's), (Start: 10 @19037 has 21 MA's), (33, 19181), (65, 19454), (67, 19466), (71, 19487), (76, 19511), (84, 19586), (93, 19658), (98, 19688), (103, 19724), (109, 19787), (113, 19802), (118, 19829), (119, 19835), (127, 19910), (131, 19934), (133, 19940), (140, 19994), (141, 20000), (165, 20270), (172, 20336), (174, 20354), (176, 20372), (182, 20531), (184, 20558), (186, 20576), (189, 20603), (191, 20639), (193, 20657), (195, 20663), (196, 20690), (197, 20696), (203, 20738), (215, 20879), (217, 20930), (230, 21074), (235, 21110), (236, 21113), (242, 21161), (245, 21185), (247, 21221), (248, 21224), (249, 21233), (251, 21269), (253, 21284),

Gene: Spinach_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for Spinach_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (65, 17992), (67, 18004), (71, 18025), (79, 18070), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (108, 18307), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (161, 18772), (165, 18814), (173, 18895), (174, 18898), (176, 18916), (178, 18982), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: SpongeBob_20 Start: 17560, Stop: 19866, Start Num: 4

Candidate Starts for SpongeBob_20:

(2, 17548), (Start: 4 @17560 has 13 MA's), (Start: 9 @17572 has 28 MA's), (27, 17683), (32, 17707), (33, 17710), (34, 17719), (57, 17920), (65, 17992), (67, 18004), (71, 18025), (74, 18037), (95, 18205), (101, 18253), (103, 18268), (106, 18289), (107, 18304), (109, 18331), (113, 18346), (114, 18355), (119, 18382), (121, 18388), (124, 18433), (125, 18442), (127, 18457), (130, 18469), (131, 18478), (133, 18484), (135, 18493), (138, 18520), (140, 18538), (147, 18607), (152, 18697), (165, 18814), (172, 18880), (174, 18898), (176, 18916), (181, 19063), (182, 19075), (184, 19102), (185, 19117), (186, 19120), (191, 19183), (192, 19192), (195, 19207), (202, 19273), (208, 19336), (209, 19345), (211, 19399), (217, 19471), (219, 19492), (223, 19528), (224, 19534), (225, 19546), (226, 19549), (228, 19588), (231, 19651), (233, 19660), (236, 19678),

Gene: StevieRay_21 Start: 19029, Stop: 21290, Start Num: 9

Candidate Starts for StevieRay_21:

(Start: 9 @19029 has 28 MA's), (33, 19182), (65, 19455), (67, 19467), (71, 19488), (76, 19512), (79, 19533), (84, 19587), (93, 19659), (98, 19689), (103, 19725), (109, 19788), (113, 19803), (118, 19830), (119, 19836), (127, 19911), (131, 19935), (133, 19941), (140, 19995), (141, 20001), (165, 20271), (172, 20337), (174, 20355), (176, 20373), (182, 20532), (184, 20559), (186, 20577), (189, 20604), (191, 20640), (193, 20658), (195, 20664), (196, 20691), (197, 20697), (203, 20739), (215, 20880), (217, 20931), (230, 21075), (235, 21111), (236, 21114), (242, 21162), (245, 21186), (247, 21222), (248, 21225), (249, 21234), (251, 21270), (253, 21285),

Gene: Tapioca_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Tapioca_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: Taptic_24 Start: 27160, Stop: 29289, Start Num: 31

Candidate Starts for Taptic_24:

(Start: 31 @27160 has 4 MA's), (40, 27229), (45, 27262), (47, 27283), (54, 27340), (58, 27370), (59, 27388), (72, 27481), (73, 27484), (92, 27622), (100, 27658), (102, 27679), (104, 27706), (107, 27727), (111, 27766), (120, 27820), (124, 27874), (126, 27886), (129, 27910), (132, 27934), (135, 27946), (137, 27961), (139, 27976), (142, 28018), (148, 28075), (149, 28099), (165, 28270), (172, 28336), (174, 28354), (176, 28372), (182, 28531), (184, 28558), (186, 28576), (189, 28603), (191, 28639), (193, 28657), (195, 28663), (196, 28690), (197, 28696), (203, 28738), (215, 28879), (217, 28930), (230, 29074), (235, 29110), (236, 29113), (242, 29161), (245, 29185), (247, 29221), (248, 29224), (249, 29233), (251, 29269), (253, 29284),

Gene: Techage_21 Start: 19029, Stop: 21290, Start Num: 9

Candidate Starts for Techage_21:

(Start: 9 @19029 has 28 MA's), (Start: 10 @19038 has 21 MA's), (33, 19182), (65, 19455), (67, 19467), (71, 19488), (76, 19512), (84, 19587), (93, 19659), (98, 19689), (103, 19725), (109, 19788), (113, 19803), (118, 19830), (119, 19836), (127, 19911), (131, 19935), (133, 19941), (140, 19995), (141, 20001), (165, 20271), (172, 20337), (174, 20355), (176, 20373), (182, 20532), (184, 20559), (186, 20577), (189, 20604), (191, 20640), (193, 20658), (195, 20664), (196, 20691), (197, 20697), (203, 20739), (215, 20880), (217, 20931), (230, 21075), (235, 21111), (236, 21114), (242, 21162), (245, 21186), (247, 21222), (248, 21225), (249, 21234), (251, 21270), (253, 21285),

Gene: Thespis_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Thespis_21:

(Start: 9 @19038 has 28 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (136, 19962), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: Tortoise12_20 Start: 17556, Stop: 19550, Start Num: 10

Candidate Starts for Tortoise12_20:

(Start: 9 @17544 has 28 MA's), (Start: 10 @17556 has 21 MA's), (13, 17568), (15, 17580), (21, 17634), (32, 17703), (33, 17706), (34, 17715), (36, 17730), (55, 17892), (61, 17970), (63, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (95, 18213), (110, 18348), (122, 18405), (124, 18450), (134, 18510), (139, 18543), (140, 18552), (148, 18633), (159, 18777), (163, 18810), (165, 18828), (167, 18852), (170, 18864), (171, 18885), (172, 18915), (173, 18930), (174, 18933), (177, 18954), (179, 19044), (182, 19110), (185, 19152), (186, 19155), (190, 19185), (191, 19218), (193, 19239), (194, 19242), (199, 19299), (203, 19323), (205, 19338), (206, 19368), (208, 19374), (213, 19452), (214, 19455), (216, 19509), (219, 19533),

Gene: TpudiCK_31 Start: 24621, Stop: 26972, Start Num: 8

Candidate Starts for TpudiCK_31:

(Start: 8 @24621 has 13 MA's), (23, 24741), (26, 24756), (37, 24828), (39, 24849), (41, 24861), (44, 24888), (46, 24897), (65, 25083), (77, 25146), (84, 25215), (88, 25242), (97, 25314), (99, 25317), (101, 25338), (120, 25473), (127, 25554), (130, 25569), (131, 25578), (133, 25584), (147, 25707), (159, 25863), (162, 25881), (163, 25896), (172, 25980), (174, 25998), (175, 26007), (176, 26016), (181, 26163), (182, 26175), (187, 26241), (191, 26283), (195, 26307), (197, 26340), (204, 26394), (207, 26433), (209, 26445), (218, 26577), (223, 26622), (231, 26748), (235, 26772), (237, 26781), (239, 26790), (240, 26802), (241, 26814), (242, 26829), (247, 26889), (252, 26958),

Gene: TyDawg_30 Start: 24622, Stop: 26973, Start Num: 8

Candidate Starts for TyDawg_30:

(Start: 8 @24622 has 13 MA's), (23, 24742), (26, 24757), (37, 24829), (39, 24850), (41, 24862), (44, 24889), (46, 24898), (65, 25084), (77, 25147), (84, 25216), (88, 25243), (97, 25315), (99, 25318), (101, 25339), (120, 25474), (127, 25555), (130, 25570), (131, 25579), (133, 25585), (147, 25708), (159, 25864), (162, 25882), (163, 25897), (172, 25981), (174, 25999), (175, 26008), (176, 26017), (181, 26164), (182, 26176), (187, 26242), (191, 26284), (195, 26308), (197, 26341), (204, 26395), (207, 26434), (209, 26446), (218, 26578), (223, 26623), (231, 26749), (235, 26773), (237, 26782), (239, 26791), (240, 26803), (241, 26815), (242, 26830), (247, 26890), (252, 26959),

Gene: Venti_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Venti_21:

(Start: 9 @19038 has 28 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: Vidya_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Vidya_21:

(Start: 9 @19038 has 28 MA's), (Start: 10 @19047 has 21 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113, 19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),

Gene: Xerxes_20 Start: 17553, Stop: 19547, Start Num: 10

Candidate Starts for Xerxes_20:

(Start: 9 @17541 has 28 MA's), (Start: 10 @17553 has 21 MA's), (13, 17565), (15, 17577), (21, 17631), (32, 17700), (33, 17703), (34, 17712), (36, 17727), (55, 17889), (61, 17967), (63, 17982), (68, 18012), (78, 18060), (80, 18084), (82, 18102), (87, 18150), (91, 18186), (95, 18210), (110, 18345), (122, 18402), (124, 18447), (134, 18507), (139, 18540), (140, 18549), (148, 18630), (159, 18774), (163, 18807), (165, 18825), (167, 18849), (170, 18861), (171, 18882), (172, 18912), (173, 18927), (174, 18930), (177, 18951), (179, 19041), (182, 19107), (185, 19149), (186, 19152), (190, 19182), (191, 19215), (193, 19236), (194, 19239), (199, 19296), (203, 19320), (205, 19335), (206, 19365), (208, 19371), (213, 19449), (214, 19452), (216, 19506), (219, 19530),

Gene: Xula_20 Start: 18717, Stop: 20930, Start Num: 5

Candidate Starts for Xula_20:

(Start: 5 @18717 has 4 MA's), (Start: 10 @18741 has 21 MA's), (17, 18777), (24, 18852), (27, 18861), (33, 18888), (50, 19035), (65, 19170), (67, 19182), (71, 19203), (78, 19236), (95, 19383), (103, 19446), (108, 19485), (109, 19509), (113, 19524), (114, 19533), (119, 19560), (120, 19563), (121, 19566), (127, 19635), (131, 19656), (133, 19662), (138, 19698), (140, 19716), (165, 19992), (169, 20019), (172, 20058), (174, 20076), (195, 20319), (201, 20379), (212, 20520), (217, 20586), (221, 20613), (222, 20634), (232, 20736), (235, 20754), (243, 20802), (245, 20820), (246, 20826),

Gene: Zilizebeth_21 Start: 19038, Stop: 21299, Start Num: 9

Candidate Starts for Zilizebeth_21:

(Start: 9 @19038 has 28 MA's), (Start: 10 @19047 has 21 MA's), (33, 19191), (65, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (98, 19698), (103, 19734), (109, 19797), (113,

19812), (118, 19839), (119, 19845), (127, 19920), (131, 19944), (133, 19950), (140, 20004), (141, 20010), (165, 20280), (172, 20346), (174, 20364), (176, 20382), (182, 20541), (184, 20568), (186, 20586), (189, 20613), (191, 20649), (193, 20667), (195, 20673), (196, 20700), (197, 20706), (203, 20748), (215, 20889), (217, 20940), (230, 21084), (235, 21120), (236, 21123), (242, 21171), (245, 21195), (247, 21231), (248, 21234), (249, 21243), (251, 21279), (253, 21294),