

Pham 224483

1: Laurie_32	30	40	45	51	54	58	62	68	73	81	85	89	92	98	106	109	118	121	128	133	138	141	143	148	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	243	249	
2: Gspu1_25	41	47	50	51	57	64	68	73	82	81	94	99	104	106	110	118	121	133	138	147	158	164	176	178	181	185	189	193	198	204	208	212	218	219	226	236	242	248				
3: MadaSaad_34	13	18	27	34	52	61	78	84	94	101	106	110	112	118	125	133	139	146	151	164	173	175	181	185	189	193	198	204	208	214	218	221	234	244	248							
4: MilanaBonita_19+1	35	41	46	50	52	61	78	84	94	99	104	106	110	112	118	125	133	139	146	151	164	173	175	181	185	189	193	198	204	208	210	218	227	234	244	248						
5: Me8_18	8	15	18	23	35	52	61	78	84	94	101	106	110	112	118	125	133	139	146	151	164	173	175	181	185	189	193	198	204	208	210	218	227	234	244	248						
6: Xua_23	9	15	18	23	35	52	61	78	84	94	101	106	110	112	118	125	133	139	146	151	164	173	175	181	185	189	193	198	204	208	210	218	227	234	244	248						
7: QueenHazel_21	2	7	20	32	52	61	76	84	93	97	101	107	110	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249							
8: Batsiella_14+1	10	15	20	25	30	34	38	44	66	71	81	88	93	99	118	125	133	146	158	162	173	174	181	186	191	194	196	203	208	217	222	233	238	246	250							
9: Bricle_30+1	10	15	20	25	30	34	38	44	66	71	81	88	93	99	118	125	133	146	158	162	173	174	181	186	191	194	196	203	208	217	222	233	238	246	250							
10: Ducita_31+3	10	15	20	25	30	34	38	44	66	71	81	88	93	99	118	125	133	146	158	162	173	174	181	186	191	194	196	203	208	217	222	233	238	246	250							
11: LilKomieP_29	10	15	20	25	30	34	38	44	66	71	81	88	93	99	118	125	133	146	158	162	173	174	181	186	191	194	196	203	208	217	222	233	238	246	250							
12: Glaske16_31	10	15	20	25	30	34	38	44	66	71	81	88	93	99	118	125	133	146	158	162	173	174	181	186	191	194	196	203	208	217	222	233	238	246	250							
13: SlimJimm_29	10	15	20	25	30	34	38	44	66	71	81	88	93	99	118	125	133	146	158	162	173	174	181	186	191	194	196	203	208	217	222	233	238	246	250							
14: KloverKS_30	14	18	21	25	30	34	38	44	57	64	68	73	82	81	94	99	104	106	110	112	118	121	133	138	147	158	164	176	178	181	185	189	193	198	204	208	212	218	226	236	242	248
15: Xaxax_20+0	35	41	46	50	57	64	68	73	82	81	94	99	104	106	110	112	118	121	133	138	147	158	164	176	178	181	185	189	193	198	204	208	210	218	227	234	244	248				
16: Nanae_20+6	35	41	46	50	57	64	68	73	82	81	94	99	104	106	110	112	118	121	133	138	147	158	164	176	178	181	185	189	193	198	204	208	210	218	227	234	244	248				
17: Snekmagga_n_20+2	35	41	46	50	57	64	68	73	82	81	94	99	104	106	110	112	118	121	133	138	147	158	164	176	178	181	185	189	193	198	204	208	210	218	227	234	244	248				
18: Rebel_20	4	11	33	35	61	76	84	93	97	101	107	110	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249								
19: Sonah_21+16	4	11	33	35	61	76	84	93	97	101	107	110	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249								
20: Bartholomew_21+1	4	11	33	35	61	76	84	93	97	101	107	110	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249								
21: Brusacoram_21+3	4	11	33	35	61	76	84	93	97	101	107	110	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249								
22: Venti_21	4	11	33	35	61	76	84	93	97	101	107	110	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249								
23: Arib1_21+2	4	11	33	35	61	75	84	93	97	101	107	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249									
24: Jagg_21	4	11	33	35	61	76	84	93	97	101	107	110	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	201	208	218	227	234	244	248								
25: GreaseLightain_21	4	11	33	35	61	76	84	93	97	101	107	110	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249								
26: StevieRay_21	4	11	33	35	61	76	84	93	97	101	107	110	118	125	133	139	146	151	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249								
27: Malithi_21	31	42	41	46	56	60	73	81	92	99	106	109	118	121	128	133	138	141	148	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249							
28: Argie_25	31	42	41	46	56	60	73	81	92	99	106	109	118	121	128	133	138	141	148	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249							
29: Taptic_24	31	42	41	46	56	60	73	81	92	99	106	109	118	121	128	133	138	141	148	164	173	175	181	185	188	190	192	196	202	214	216	228	234	240	249							
30: Megabear_24+	31	42	41	46	57	64	68	73	82	81	94	99	104	106	110	112	118	121	133	138	147	158	164	176	178	181	185	189	193	198	204	208	212	218	226	236	242	248				
31: LilSpotly_23	31	42	41	46	57	64	68	73	82	81	94	99	104	106	110	112	118	121	133	138	147	158	164	176	178	181	185	189	193	198	204	208	212	218	226	236	242	248				

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 224483 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224483 has 92 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Laurie_32
- Track 2 : Gspu1_25
- Track 3 : MulchSalad_18
- Track 4 : MilanaBonita_19, Akhila_19
- Track 5 : Ms6_18
- Track 6 : Xula_20
- Track 7 : QueenHazel_21
- Track 8 : Babsiella_21, HC_21
- Track 9 : Bricole_30, PegLeg_30
- Track 10 : Dulcita_31, Izel_29, Auspice_30, Diminimus_31
- Track 11 : LilhomieP_29, TyDawg_30, IPhane7_30, Bongo_30, FreakyGoo_30
- Track 12 : Glaske16_31
- Track 13 : SlimJimmy_29
- Track 14 : KleverKiS_30
- Track 15 : Xerxes_20, Parmesanjohn_20, Duplicity_20, Bosection6_20, Tapioca_20, Journey_20, Charlie_20, Melville_20, Silvy_20, Smurph_20, Tortoise12_20, Pipsqueaks_20, Carcharodon_20, Gex_20, Aggie_20, Magsby_20, EGUnicorn_21, Chewbacca_20, Schnauzer_20, Philonius_20, Silvafighter_20
- Track 16 : Nenae_20, Hanako_20, PhancyPhin_20, Redi_20, BabeRuth_20, ShrimpFriedEgg_20, Purgamenstris_20
- Track 17 : Snekmaggedon_20, SpongeBob_20, Jamie19_20
- Track 18 : Rebel_20
- Track 19 : Sonah_21, Polkaroo_21, Langerak_21, Necropolis_21, HUHilltop_21, Vidya_21, FirstPlacePfu_21, Jebeks_21, Etoile_21, Donovan_21, Ksquared_21, Zilizebeth_21, Kari_21, Phegasus_21, Juniormint_21, Fishburne_21, Techage_21
- Track 20 : Bartholomew_21, Bunnies_21
- Track 21 : Brusacoram_21, Majeke_21, Thespis_21, Mangethe_21
- Track 22 : Venti_21
- Track 23 : Arib1_21, Bhagsy_21, Camster_21
- Track 24 : Jung_21
- Track 25 : GreaseLightnin_21
- Track 26 : StevieRay_21
- Track 27 : Malithi_21
- Track 28 : Argie_25
- Track 29 : Taptic_24
- Track 30 : Megabear_24, Cepens_24
- Track 31 : 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 4, it was called in 25 of the 79 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, Donovan_21, Etoile_21, FirstPlacePfu_21, Fishburne_21, HUHilltop_21, Jebeks_21, Jung_21, Juniormint_21, Kari_21, Ksquared_21, Langerak_21, Majeke_21, Malithi_21, Mangethe_21, Necropolis_21, Phegasus_21, Polkaroo_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:

- MulchSalad_18,

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

- Aggie_20, Akhila_19, Argie_25, Auspice_30, BabeRuth_20, Babsiella_21, Bongo_30, Bosection6_20, Bricole_30, Carcharodon_20, Cepens_24, Charlie_20, Chewbacca_20, Diminimus_31, Dulcita_31, Duplicity_20, EGUnicorn_21, FreakyGoo_30, Gex_20, Glaske16_31, GreaseLightnin_21, Gsput1_25, HC_21, Hanako_20, IPhane7_30, Izel_29, Jamie19_20, Journey_20, KleverKiS_30, Laurie_32, LilSpotty_23, LilhomieP_29, Magsby_20, Megabear_24, Melville_20, MilanaBonita_19, Ms6_18, Nenae_20, Parmesanjohn_20, PegLeg_30, PhancyPhin_20, Philonius_20, Pipsqueaks_20, Purgamenstris_20, QueenHazel_21, Rebel_20, Redi_20, Schnauzer_20, ShrimpFriedEgg_20, Silvafighter_20, Silvy_20, SlimJimmy_29, Smurph_20, Snekmaggedon_20, SpongeBob_20, Tapioca_20, Taptic_24, Tortoise12_20, TyDawg_30, Xerxes_20, Xula_20,

Summary by start number:

Start 1:

- Found in 1 of 92 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 79
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilSpotty_23 (singleton),

Start 2:

- Found in 2 of 92 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 79
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Babsiella_21 (I1), HC_21 (I1),

Start 4:

- Found in 31 of 92 (33.7%) of genes in pham
- Manual Annotations of this start: 25 of 79
- Called 96.8% 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), Donovan_21 (P1), Etoile_21 (P1), FirstPlacePfu_21 (P1), Fishburne_21 (P1),

HUHilltop_21 (P1), Jebeks_21 (P1), Jung_21 (P1), Juniormint_21 (P1), Kari_21 (P1), Kssquared_21 (P1), Langerak_21 (P1), Majeke_21 (P1), Malithi_21 (P1), Mangethe_21 (P1), Necropolis_21 (P1), Phegasus_21 (P1), Polkaroo_21 (P1), Sonah_21 (P1), StevieRay_21 (P1), Techage_21 (P1), Thespis_21 (P1), Venti_21 (P1), Vidya_21 (P1), Zilizebeth_21 (P1),

Start 6:

- Found in 13 of 92 (14.1%) of genes in pham
- Manual Annotations of this start: 12 of 79
- 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), Nенаe_20 (N), PhancyPhin_20 (N), Purgamenstris_20 (N), Rebel_20 (N), Redi_20 (N), ShrimpFriedEgg_20 (N), Snekmaggon_20 (N), SpongeBob_20 (N),

Start 7:

- Found in 45 of 92 (48.9%) of genes in pham
- No Manual Annotations of this start.
- Called 2.2% of time when present
- Phage (with cluster) where this start called: MulchSalad_18 (F),

Start 8:

- Found in 2 of 92 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 79
- Called 100.0% of time when present
- Phage (with cluster) where this start called: QueenHazel_21 (I1), Xula_20 (I1),

Start 9:

- Found in 2 of 92 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 79
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akhila_19 (F1), MilanaBonita_19 (F1),

Start 10:

- Found in 14 of 92 (15.2%) of genes in pham
- Manual Annotations of this start: 11 of 79
- 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_30 (M1), Glaske16_31 (M1), IPhane7_30 (M1), Izel_29 (M1), KleverKiS_30 (M1), LilhomieP_29 (M1), PegLeg_30 (M1), SlimJimmy_29 (M1), TyDawg_30 (M1),

Start 11:

- Found in 21 of 92 (22.8%) of genes in pham
- Manual Annotations of this start: 19 of 79
- Called 100.0% 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), Duplicity_20 (N), EGUnicorn_21 (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 30:

- Found in 1 of 92 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 79
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Laurie_32 (B2),

Start 31:

- Found in 4 of 92 (4.3%) of genes in pham
- Manual Annotations of this start: 4 of 79
- 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 62:

- Found in 1 of 92 (1.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gspu1_25 (CU2),

Summary by clusters:

There are 10 clusters represented in this pham: F1, singleton, P1, W, F, I1, N, M1, B2, CU2,

Info for manual annotations of cluster B2:

- Start number 30 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster F1:

- Start number 9 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster I1:

- Start number 2 was manually annotated 2 times for cluster I1.
- Start number 8 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster M1:

- Start number 10 was manually annotated 11 times for cluster M1.

Info for manual annotations of cluster N:

- Start number 6 was manually annotated 11 times for cluster N.
- Start number 11 was manually annotated 19 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 4 was manually annotated 25 times for cluster P1.
- Start number 6 was manually annotated 1 time 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: 11

Candidate Starts for Aggie_20:

(7, 17545), (Start: 11 @17557 has 19 MA's), (14, 17569), (16, 17581), (21, 17635), (34, 17704), (35, 17707), (36, 17716), (38, 17731), (57, 17893), (63, 17971), (64, 17986), (68, 18016), (78, 18064), (80, 18088), (82, 18106), (87, 18154), (91, 18190), (94, 18214), (108, 18349), (118, 18406), (121, 18451), (133, 18511), (138, 18544), (139, 18553), (147, 18634), (158, 18778), (162, 18811), (164, 18829), (166, 18853), (169, 18865), (170, 18886), (171, 18916), (172, 18931), (173, 18934), (176, 18955), (178, 19045), (181, 19111), (184, 19153), (185, 19156), (189, 19186), (190, 19219), (192, 19240), (193, 19243), (198, 19300), (202, 19324), (204, 19339), (205, 19369), (207, 19375), (212, 19453), (213, 19456), (215, 19510), (218, 19534),

Gene: Akhila_19 Start: 18067, Stop: 20265, Start Num: 9

Candidate Starts for Akhila_19:

(5, 18055), (Start: 9 @18067 has 2 MA's), (15, 18088), (18, 18109), (22, 18148), (32, 18217), (34, 18226), (35, 18229), (41, 18280), (44, 18295), (52, 18370), (66, 18505), (67, 18517), (71, 18538), (78, 18571), (94, 18718), (101, 18781), (106, 18820), (107, 18844), (111, 18859), (112, 18868), (117, 18895), (118, 18898), (119, 18901), (125, 18970), (130, 18991), (132, 18997), (137, 19033), (139, 19051), (164, 19327), (171, 19393), (173, 19411), (175, 19429), (181, 19588), (200, 19714), (211, 19855), (214, 19870), (216, 19921), (220, 19948), (221, 19969), (230, 20071), (232, 20086), (234, 20092), (241, 20137), (243, 20155), (244, 20161), (248, 20224),

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

Candidate Starts for Argie_25:

(Start: 31 @27496 has 4 MA's), (42, 27565), (47, 27598), (49, 27619), (56, 27676), (60, 27706), (61, 27724), (72, 27817), (73, 27820), (81, 27874), (92, 27958), (98, 27994), (100, 28015), (105, 28063), (109, 28102), (118, 28156), (122, 28210), (124, 28222), (127, 28246), (131, 28270), (134, 28282), (136, 28297), (138, 28312), (141, 28354), (148, 28435), (164, 28606), (171, 28672), (173, 28690), (175, 28708), (181, 28867), (183, 28894), (185, 28912), (188, 28939), (190, 28975), (192, 28993), (194, 28999), (195, 29026), (196, 29032), (202, 29074), (214, 29215), (216, 29266), (228, 29410), (233, 29446), (234, 29449), (240, 29497), (243, 29521), (245, 29557), (246, 29560), (247, 29569), (249, 29605), (251, 29620),

Gene: Arib1_21 Start: 19044, Stop: 21305, Start Num: 4

Candidate Starts for Arib1_21:

(Start: 4 @19044 has 25 MA's), (35, 19197), (66, 19470), (67, 19482), (71, 19503), (76, 19527), (84, 19602), (93, 19674), (97, 19704), (101, 19740), (107, 19803), (111, 19818), (116, 19845), (117, 19851), (125, 19926), (130, 19950), (132, 19956), (139, 20010), (140, 20016), (164, 20286), (171, 20352), (173, 20370), (175, 20388), (181, 20547), (183, 20574), (185, 20592), (188, 20619), (190, 20655), (192, 20673), (194, 20679), (195, 20706), (196, 20712), (202, 20754), (214, 20895), (216, 20946), (228, 21090), (233, 21126), (234, 21129), (240, 21177), (243, 21201), (245, 21237), (246, 21240), (247, 21249), (249, 21285), (251, 21300),

Gene: Auspice_30 Start: 24622, Stop: 26973, Start Num: 10

Candidate Starts for Auspice_30:

(Start: 10 @24622 has 11 MA's), (26, 24742), (28, 24757), (39, 24829), (41, 24850), (43, 24862), (46, 24889), (48, 24898), (66, 25084), (77, 25147), (84, 25216), (88, 25243), (97, 25318), (99, 25339), (118, 25474), (126, 25555), (129, 25570), (130, 25579), (132, 25585), (146, 25708), (158, 25864), (161, 25882), (162, 25897), (171, 25981), (173, 25999), (174, 26008), (175, 26017), (180, 26164), (181, 26176), (186, 26242), (190, 26284), (194, 26308), (196, 26341), (203, 26395), (206, 26434), (208, 26446), (217, 26578), (222, 26623), (229, 26749), (233, 26773), (235, 26782), (237, 26791), (238, 26803), (239, 26815), (240, 26830), (245, 26890), (250, 26959),

Gene: BabeRuth_20 Start: 17560, Stop: 19866, Start Num: 6

Candidate Starts for BabeRuth_20:

(3, 17548), (Start: 6 @17560 has 12 MA's), (12, 17572), (29, 17683), (34, 17707), (35, 17710), (36, 17719), (66, 17992), (67, 18004), (71, 18025), (79, 18070), (94, 18205), (99, 18253), (101, 18268), (104, 18289), (106, 18307), (107, 18331), (111, 18346), (112, 18355), (117, 18382), (119, 18388), (122, 18433), (125, 18457), (129, 18469), (130, 18478), (132, 18484), (137, 18520), (139, 18538), (146, 18607), (151, 18697), (160, 18772), (164, 18814), (172, 18895), (173, 18898), (175, 18916), (177, 18982), (180, 19063), (181, 19075), (183, 19102), (184, 19117), (185, 19120), (190, 19183), (191, 19192), (194, 19207), (201, 19273), (207, 19336), (208, 19345), (210, 19399), (216, 19471), (218, 19492), (222, 19528), (223, 19534), (224, 19546), (225, 19549), (227, 19588), (229, 19651), (231, 19660), (234, 19678),

Gene: Babsiella_21 Start: 19025, Stop: 21313, Start Num: 2

Candidate Starts for Babsiella_21:

(Start: 2 @19025 has 2 MA's), (7, 19049), (24, 19160), (25, 19169), (32, 19196), (52, 19343), (66, 19478), (67, 19490), (71, 19511), (76, 19535), (84, 19610), (93, 19682), (97, 19712), (101, 19748), (107, 19811), (111, 19826), (116, 19853), (117, 19859), (118, 19862), (125, 19934), (130, 19958), (132, 19964), (139, 20018), (140, 20024), (164, 20294), (171, 20360), (173, 20378), (175, 20396), (181, 20555), (183, 20582), (185, 20600), (188, 20627), (190, 20663), (192, 20681), (194, 20687), (195, 20714), (196, 20720), (202, 20762), (214, 20903), (216, 20954), (228, 21098), (233, 21134), (234, 21137), (240, 21185), (243, 21209), (245, 21245), (246, 21248), (247, 21257), (249, 21293), (251, 21308),

Gene: Bartholomew_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Bartholomew_21:

(Start: 4 @19038 has 25 MA's), (7, 19047), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: Bhagsy_21 Start: 19045, Stop: 21306, Start Num: 4

Candidate Starts for Bhagsy_21:

(Start: 4 @19045 has 25 MA's), (35, 19198), (66, 19471), (67, 19483), (71, 19504), (76, 19528), (84, 19603), (93, 19675), (97, 19705), (101, 19741), (107, 19804), (111, 19819), (116, 19846), (117, 19852), (125, 19927), (130, 19951), (132, 19957), (139, 20011), (140, 20017), (164, 20287), (171, 20353), (173, 20371), (175, 20389), (181, 20548), (183, 20575), (185, 20593), (188, 20620), (190, 20656), (192, 20674), (194, 20680), (195, 20707), (196, 20713), (202, 20755), (214, 20896), (216, 20947), (228, 21091), (233, 21127), (234, 21130), (240, 21178), (243, 21202), (245, 21238), (246, 21241), (247, 21250), (249, 21286), (251, 21301),

Gene: Bongo_30 Start: 24622, Stop: 26973, Start Num: 10

Candidate Starts for Bongo_30:

(Start: 10 @24622 has 11 MA's), (26, 24742), (28, 24757), (39, 24829), (41, 24850), (43, 24862), (46, 24889), (48, 24898), (66, 25084), (77, 25147), (84, 25216), (88, 25243), (96, 25315), (97, 25318), (99, 25339), (118, 25474), (126, 25555), (129, 25570), (130, 25579), (132, 25585), (146, 25708), (158, 25864), (161, 25882), (162, 25897), (171, 25981), (173, 25999), (174, 26008), (175, 26017), (180, 26164), (181, 26176), (186, 26242), (190, 26284), (194, 26308), (196, 26341), (203, 26395), (206, 26434), (208, 26446), (217, 26578), (222, 26623), (229, 26749), (233, 26773), (235, 26782), (237, 26791), (238, 26803), (239, 26815), (240, 26830), (245, 26890), (250, 26959),

Gene: Bosection6_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Bosection6_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: Bricole_30 Start: 24608, Stop: 26959, Start Num: 10

Candidate Starts for Bricole_30:

(Start: 10 @24608 has 11 MA's), (26, 24728), (28, 24743), (39, 24815), (41, 24836), (43, 24848), (46, 24875), (48, 24884), (66, 25070), (77, 25133), (84, 25202), (88, 25229), (96, 25301), (97, 25304), (99, 25325), (118, 25460), (126, 25541), (129, 25556), (130, 25565), (132, 25571), (146, 25694), (158, 25850), (161, 25868), (162, 25883), (171, 25967), (173, 25985), (174, 25994), (180, 26150), (181, 26162), (186, 26228), (190, 26270), (194, 26294), (196, 26327), (203, 26381), (206, 26420), (208, 26432), (217, 26564), (222, 26609), (229, 26735), (233, 26759), (235, 26768), (237, 26777), (238, 26789), (239, 26801), (240, 26816), (245, 26876), (250, 26945),

Gene: Brusacoram_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Brusacoram_21:

(Start: 4 @19038 has 25 MA's), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (135, 19962), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: Bunnies_21 Start: 19060, Stop: 21321, Start Num: 4

Candidate Starts for Bunnies_21:

(Start: 4 @19060 has 25 MA's), (7, 19069), (35, 19213), (66, 19486), (67, 19498), (71, 19519), (76, 19543), (84, 19618), (93, 19690), (97, 19720), (101, 19756), (107, 19819), (111, 19834), (116, 19861), (117, 19867), (125, 19942), (130, 19966), (132, 19972), (139, 20026), (140, 20032), (164, 20302), (171, 20368), (175, 20404), (181, 20563), (183, 20590), (185, 20608), (188, 20635), (190, 20671), (192, 20689), (194, 20695), (195, 20722), (196, 20728), (202, 20770), (214, 20911), (216, 20962), (228, 21106), (233, 21142), (234, 21145), (240, 21193), (243, 21217), (245, 21253), (246, 21256), (247, 21265), (249, 21301), (251, 21316),

Gene: Camster_21 Start: 19039, Stop: 21300, Start Num: 4

Candidate Starts for Camster_21:

(Start: 4 @19039 has 25 MA's), (35, 19192), (66, 19465), (67, 19477), (71, 19498), (76, 19522), (84, 19597), (93, 19669), (97, 19699), (101, 19735), (107, 19798), (111, 19813), (116, 19840), (117, 19846), (125, 19921), (130, 19945), (132, 19951), (139, 20005), (140, 20011), (164, 20281), (171, 20347), (173, 20365), (175, 20383), (181, 20542), (183, 20569), (185, 20587), (188, 20614), (190, 20650), (192, 20668), (194, 20674), (195, 20701), (196, 20707), (202, 20749), (214, 20890), (216, 20941), (228, 21085), (233, 21121), (234, 21124), (240, 21172), (243, 21196), (245, 21232), (246, 21235), (247, 21244), (249, 21280), (251, 21295),

Gene: Carcharodon_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Carcharodon_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

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

Candidate Starts for Cepens_24:

(Start: 31 @27217 has 4 MA's), (42, 27286), (47, 27319), (49, 27340), (56, 27397), (60, 27427), (61, 27445), (72, 27538), (73, 27541), (81, 27595), (92, 27679), (98, 27715), (99, 27733), (100, 27736), (105, 27784), (109, 27823), (114, 27859), (118, 27877), (122, 27931), (124, 27943), (127, 27967), (131, 27991), (134, 28003), (136, 28018), (138, 28033), (141, 28075), (147, 28132), (148, 28156), (164, 28327), (171, 28393), (173, 28411), (175, 28429), (181, 28588), (183, 28615), (185, 28633), (188, 28660), (190, 28696), (192, 28714), (194, 28720), (195, 28747), (196, 28753), (202, 28795), (214, 28936), (216, 28987), (228, 29131), (233, 29167), (234, 29170), (240, 29218), (243, 29242), (245, 29278), (246, 29281), (247, 29290), (249, 29326), (251, 29341),

Gene: Charlie_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Charlie_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: Chewbacca_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Chewbacca_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: Diminimus_31 Start: 24621, Stop: 26972, Start Num: 10

Candidate Starts for Diminimus_31:

(Start: 10 @24621 has 11 MA's), (26, 24741), (28, 24756), (39, 24828), (41, 24849), (43, 24861), (46, 24888), (48, 24897), (66, 25083), (77, 25146), (84, 25215), (88, 25242), (97, 25317), (99, 25338), (118, 25473), (126, 25554), (129, 25569), (130, 25578), (132, 25584), (146, 25707), (158, 25863), (161, 25881), (162, 25896), (171, 25980), (173, 25998), (174, 26007), (175, 26016), (180, 26163), (181, 26175), (186, 26241), (190, 26283), (194, 26307), (196, 26340), (203, 26394), (206, 26433), (208, 26445), (217, 26577), (222, 26622), (229, 26748), (233, 26772), (235, 26781), (237, 26790), (238, 26802), (239, 26814), (240, 26829), (245, 26889), (250, 26958),

Gene: Donovan_21 Start: 19027, Stop: 21288, Start Num: 4

Candidate Starts for Donovan_21:

(Start: 4 @19027 has 25 MA's), (7, 19036), (35, 19180), (66, 19453), (67, 19465), (71, 19486), (76, 19510), (84, 19585), (93, 19657), (97, 19687), (101, 19723), (107, 19786), (111, 19801), (116, 19828), (117, 19834), (125, 19909), (130, 19933), (132, 19939), (139, 19993), (140, 19999), (164, 20269), (171, 20335), (173, 20353), (175, 20371), (181, 20530), (183, 20557), (185, 20575), (188, 20602), (190, 20638), (192, 20656), (194, 20662), (195, 20689), (196, 20695), (202, 20737), (214, 20878), (216, 20929), (228, 21073), (233, 21109), (234, 21112), (240, 21160), (243, 21184), (245, 21220), (246, 21223), (247, 21232), (249, 21268), (251, 21283),

Gene: Dulcita_31 Start: 24621, Stop: 26972, Start Num: 10

Candidate Starts for Dulcita_31:

(Start: 10 @24621 has 11 MA's), (26, 24741), (28, 24756), (39, 24828), (41, 24849), (43, 24861), (46, 24888), (48, 24897), (66, 25083), (77, 25146), (84, 25215), (88, 25242), (97, 25317), (99, 25338), (118, 25473), (126, 25554), (129, 25569), (130, 25578), (132, 25584), (146, 25707), (158, 25863), (161, 25881), (162, 25896), (171, 25980), (173, 25998), (174, 26007), (175, 26016), (180, 26163), (181, 26175), (186, 26241), (190, 26283), (194, 26307), (196, 26340), (203, 26394), (206, 26433), (208, 26445), (217, 26577), (222, 26622), (229, 26748), (233, 26772), (235, 26781), (237, 26790), (238, 26802), (239, 26814), (240, 26829), (245, 26889), (250, 26958),

Gene: Duplicity_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Duplicity_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: EGUunicorn_21 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for EGUunicorn_21:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: Etoile_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Etoile_21:

(Start: 4 @19038 has 25 MA's), (7, 19047), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: FirstPlacePfu_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for FirstPlacePfu_21:

(Start: 4 @19038 has 25 MA's), (7, 19047), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: Fishburne_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Fishburne_21:

(Start: 4 @19038 has 25 MA's), (7, 19047), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: FreakyGoo_30 Start: 24622, Stop: 26973, Start Num: 10

Candidate Starts for FreakyGoo_30:

(Start: 10 @24622 has 11 MA's), (26, 24742), (28, 24757), (39, 24829), (41, 24850), (43, 24862), (46, 24889), (48, 24898), (66, 25084), (77, 25147), (84, 25216), (88, 25243), (96, 25315), (97, 25318), (99, 25339), (118, 25474), (126, 25555), (129, 25570), (130, 25579), (132, 25585), (146, 25708), (158, 25864), (161, 25882), (162, 25897), (171, 25981), (173, 25999), (174, 26008), (175, 26017), (180, 26164), (181, 26176), (186, 26242), (190, 26284), (194, 26308), (196, 26341), (203, 26395), (206, 26434), (208, 26446), (217, 26578), (222, 26623), (229, 26749), (233, 26773), (235, 26782), (237, 26791), (238, 26803), (239, 26815), (240, 26830), (245, 26890), (250, 26959),

Gene: Gex_20 Start: 17552, Stop: 19546, Start Num: 11

Candidate Starts for Gex_20:

(7, 17540), (Start: 11 @17552 has 19 MA's), (14, 17564), (16, 17576), (21, 17630), (34, 17699), (35, 17702), (36, 17711), (38, 17726), (57, 17888), (63, 17966), (64, 17981), (68, 18011), (78, 18059), (80, 18083), (82, 18101), (87, 18149), (91, 18185), (94, 18209), (108, 18344), (118, 18401), (121, 18446), (133, 18506), (138, 18539), (139, 18548), (147, 18629), (158, 18773), (162, 18806), (164, 18824), (166, 18848), (169, 18860), (170, 18881), (171, 18911), (172, 18926), (173, 18929), (176, 18950), (178, 19040), (181, 19106), (184, 19148), (185, 19151), (189, 19181), (190, 19214), (192, 19235), (193, 19238), (198, 19295), (202, 19319), (204, 19334), (205, 19364), (207, 19370), (212, 19448), (213, 19451), (215, 19505), (218, 19529),

Gene: Glaske16_31 Start: 24621, Stop: 26972, Start Num: 10

Candidate Starts for Glaske16_31:

(Start: 10 @24621 has 11 MA's), (26, 24741), (28, 24756), (39, 24828), (41, 24849), (43, 24861), (46, 24888), (48, 24897), (66, 25083), (77, 25146), (84, 25215), (88, 25242), (97, 25317), (99, 25338), (118, 25473), (126, 25554), (129, 25569), (130, 25578), (132, 25584), (146, 25707), (158, 25863), (161, 25881), (162, 25896), (171, 25980), (173, 25998), (174, 26007), (180, 26163), (181, 26175), (186, 26241), (190, 26283), (194, 26307), (196, 26340), (203, 26394), (206, 26433), (208, 26445), (217, 26577), (222, 26622), (229, 26748), (233, 26772), (235, 26781), (237, 26790), (238, 26802), (239, 26814), (240, 26829), (245, 26889), (250, 26958),

Gene: GreaseLightnin_21 Start: 19044, Stop: 21344, Start Num: 6

Candidate Starts for GreaseLightnin_21:

(Start: 6 @19044 has 12 MA's), (12, 19053), (35, 19197), (66, 19470), (67, 19482), (71, 19503), (94, 19683), (99, 19731), (101, 19746), (102, 19761), (104, 19767), (106, 19785), (107, 19809), (111,

19824), (112, 19833), (117, 19860), (119, 19866), (122, 19911), (125, 19935), (129, 19947), (130, 19956), (132, 19962), (137, 19998), (139, 20016), (160, 20250), (164, 20292), (171, 20358), (173, 20376), (175, 20394), (181, 20553), (183, 20580), (184, 20595), (185, 20598), (190, 20661), (191, 20670), (194, 20685), (201, 20751), (207, 20814), (208, 20823), (216, 20949), (218, 20970), (222, 21006), (223, 21012), (224, 21024), (225, 21027), (227, 21066), (229, 21129), (231, 21138), (234, 21156),

Gene: Gspu1_25 Start: 19933, Stop: 21690, Start Num: 62

Candidate Starts for Gspu1_25:

(62, 19933), (70, 19987), (73, 20002), (81, 20056), (83, 20080), (85, 20098), (89, 20131), (95, 20194), (99, 20218), (103, 20248), (108, 20302), (110, 20305), (113, 20332), (120, 20374), (128, 20428), (137, 20488), (142, 20536), (144, 20551), (145, 20566), (149, 20626), (150, 20659), (151, 20665), (152, 20671), (154, 20680), (155, 20683), (156, 20710), (159, 20740), (163, 20773), (165, 20785), (167, 20803), (172, 20860), (177, 20947), (179, 21019), (182, 21049), (187, 21067), (190, 21082), (197, 21148), (199, 21163), (201, 21172), (209, 21256), (219, 21394), (226, 21487), (236, 21592), (242, 21637),

Gene: HC_21 Start: 19081, Stop: 21369, Start Num: 2

Candidate Starts for HC_21:

(Start: 2 @19081 has 2 MA's), (7, 19105), (24, 19216), (25, 19225), (32, 19252), (52, 19399), (66, 19534), (67, 19546), (71, 19567), (76, 19591), (84, 19666), (93, 19738), (97, 19768), (101, 19804), (107, 19867), (111, 19882), (116, 19909), (117, 19915), (118, 19918), (125, 19990), (130, 20014), (132, 20020), (139, 20074), (140, 20080), (164, 20350), (171, 20416), (173, 20434), (175, 20452), (181, 20611), (183, 20638), (185, 20656), (188, 20683), (190, 20719), (192, 20737), (194, 20743), (195, 20770), (196, 20776), (202, 20818), (214, 20959), (216, 21010), (228, 21154), (233, 21190), (234, 21193), (240, 21241), (243, 21265), (245, 21301), (246, 21304), (247, 21313), (249, 21349), (251, 21364),

Gene: HUHilltop_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for HUHilltop_21:

(Start: 4 @19038 has 25 MA's), (7, 19047), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: Hanako_20 Start: 17560, Stop: 19866, Start Num: 6

Candidate Starts for Hanako_20:

(3, 17548), (Start: 6 @17560 has 12 MA's), (12, 17572), (29, 17683), (34, 17707), (35, 17710), (36, 17719), (66, 17992), (67, 18004), (71, 18025), (79, 18070), (94, 18205), (99, 18253), (101, 18268), (104, 18289), (106, 18307), (107, 18331), (111, 18346), (112, 18355), (117, 18382), (119, 18388), (122, 18433), (125, 18457), (129, 18469), (130, 18478), (132, 18484), (137, 18520), (139, 18538), (146, 18607), (151, 18697), (160, 18772), (164, 18814), (172, 18895), (173, 18898), (175, 18916), (177, 18982), (180, 19063), (181, 19075), (183, 19102), (184, 19117), (185, 19120), (190, 19183), (191, 19192), (194, 19207), (201, 19273), (207, 19336), (208, 19345), (210, 19399), (216, 19471), (218, 19492), (222, 19528), (223, 19534), (224, 19546), (225, 19549), (227, 19588), (229, 19651), (231, 19660), (234, 19678),

Gene: IPhane7_30 Start: 24622, Stop: 26973, Start Num: 10

Candidate Starts for IPhane7_30:

(Start: 10 @24622 has 11 MA's), (26, 24742), (28, 24757), (39, 24829), (41, 24850), (43, 24862), (46, 24889), (48, 24898), (66, 25084), (77, 25147), (84, 25216), (88, 25243), (96, 25315), (97, 25318), (99, 25339), (118, 25474), (126, 25555), (129, 25570), (130, 25579), (132, 25585), (146, 25708), (158, 25864), (161, 25882), (162, 25897), (171, 25981), (173, 25999), (174, 26008), (175, 26017), (180, 26164), (181, 26176), (186, 26242), (190, 26284), (194, 26308), (196, 26341), (203, 26395), (206, 26434), (208, 26446), (217, 26578), (222, 26623), (229, 26749), (233, 26773), (235, 26782), (237, 26791), (238, 26803), (239, 26815), (240, 26830), (245, 26890), (250, 26959),

Gene: Izel_29 Start: 24621, Stop: 26972, Start Num: 10

Candidate Starts for Izel_29:

(Start: 10 @24621 has 11 MA's), (26, 24741), (28, 24756), (39, 24828), (41, 24849), (43, 24861), (46, 24888), (48, 24897), (66, 25083), (77, 25146), (84, 25215), (88, 25242), (97, 25317), (99, 25338), (118, 25473), (126, 25554), (129, 25569), (130, 25578), (132, 25584), (146, 25707), (158, 25863), (161, 25881), (162, 25896), (171, 25980), (173, 25998), (174, 26007), (175, 26016), (180, 26163), (181, 26175), (186, 26241), (190, 26283), (194, 26307), (196, 26340), (203, 26394), (206, 26433), (208, 26445), (217, 26577), (222, 26622), (229, 26748), (233, 26772), (235, 26781), (237, 26790), (238, 26802), (239, 26814), (240, 26829), (245, 26889), (250, 26958),

Gene: Jamie19_20 Start: 17560, Stop: 19866, Start Num: 6

Candidate Starts for Jamie19_20:

(3, 17548), (Start: 6 @17560 has 12 MA's), (12, 17572), (29, 17683), (34, 17707), (35, 17710), (36, 17719), (59, 17920), (66, 17992), (67, 18004), (71, 18025), (74, 18037), (94, 18205), (99, 18253), (101, 18268), (104, 18289), (105, 18304), (107, 18331), (111, 18346), (112, 18355), (117, 18382), (119, 18388), (122, 18433), (123, 18442), (125, 18457), (129, 18469), (130, 18478), (132, 18484), (134, 18493), (137, 18520), (139, 18538), (146, 18607), (151, 18697), (164, 18814), (171, 18880), (173, 18898), (175, 18916), (180, 19063), (181, 19075), (183, 19102), (184, 19117), (185, 19120), (190, 19183), (191, 19192), (194, 19207), (201, 19273), (207, 19336), (208, 19345), (210, 19399), (216, 19471), (218, 19492), (222, 19528), (223, 19534), (224, 19546), (225, 19549), (227, 19588), (229, 19651), (231, 19660), (234, 19678),

Gene: Jebeks_21 Start: 19023, Stop: 21284, Start Num: 4

Candidate Starts for Jebeks_21:

(Start: 4 @19023 has 25 MA's), (7, 19032), (35, 19176), (66, 19449), (67, 19461), (71, 19482), (76, 19506), (84, 19581), (93, 19653), (97, 19683), (101, 19719), (107, 19782), (111, 19797), (116, 19824), (117, 19830), (125, 19905), (130, 19929), (132, 19935), (139, 19989), (140, 19995), (164, 20265), (171, 20331), (173, 20349), (175, 20367), (181, 20526), (183, 20553), (185, 20571), (188, 20598), (190, 20634), (192, 20652), (194, 20658), (195, 20685), (196, 20691), (202, 20733), (214, 20874), (216, 20925), (228, 21069), (233, 21105), (234, 21108), (240, 21156), (243, 21180), (245, 21216), (246, 21219), (247, 21228), (249, 21264), (251, 21279),

Gene: Journey_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Journey_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: Jung_21 Start: 18964, Stop: 21225, Start Num: 4

Candidate Starts for Jung_21:

(Start: 4 @18964 has 25 MA's), (7, 18973), (35, 19117), (66, 19390), (67, 19402), (71, 19423), (75, 19444), (84, 19522), (93, 19594), (97, 19624), (101, 19660), (107, 19723), (111, 19738), (117, 19771), (118, 19774), (125, 19846), (130, 19870), (132, 19876), (139, 19930), (140, 19936), (164, 20206), (171, 20272), (173, 20290), (175, 20308), (181, 20467), (185, 20512), (188, 20539), (190, 20575), (192, 20593), (194, 20599), (195, 20626), (196, 20632), (202, 20674), (214, 20815), (216, 20866), (228, 21010), (233, 21046), (234, 21049), (240, 21097), (243, 21121), (245, 21157), (246, 21160), (247, 21169), (249, 21205), (251, 21220),

Gene: Juniormint_21 Start: 19064, Stop: 21325, Start Num: 4

Candidate Starts for Juniormint_21:

(Start: 4 @19064 has 25 MA's), (7, 19073), (35, 19217), (66, 19490), (67, 19502), (71, 19523), (76, 19547), (84, 19622), (93, 19694), (97, 19724), (101, 19760), (107, 19823), (111, 19838), (116, 19865), (117, 19871), (125, 19946), (130, 19970), (132, 19976), (139, 20030), (140, 20036), (164, 20306), (171, 20372), (173, 20390), (175, 20408), (181, 20567), (183, 20594), (185, 20612), (188, 20639), (190, 20675), (192, 20693), (194, 20699), (195, 20726), (196, 20732), (202, 20774), (214, 20915), (216, 20966), (228, 21110), (233, 21146), (234, 21149), (240, 21197), (243, 21221), (245, 21257), (246, 21260), (247, 21269), (249, 21305), (251, 21320),

Gene: Kari_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Kari_21:

(Start: 4 @19038 has 25 MA's), (7, 19047), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: KleverKiS_30 Start: 24605, Stop: 26953, Start Num: 10

Candidate Starts for KleverKiS_30:

(Start: 10 @24605 has 11 MA's), (26, 24725), (28, 24740), (39, 24812), (41, 24833), (43, 24845), (46, 24872), (48, 24881), (50, 24911), (53, 24938), (55, 24965), (65, 25061), (66, 25067), (69, 25091), (79, 25145), (88, 25226), (96, 25298), (97, 25301), (99, 25322), (118, 25457), (119, 25460), (126, 25538), (132, 25565), (137, 25601), (138, 25604), (140, 25625), (153, 25790), (157, 25826), (158, 25844), (162, 25877), (171, 25961), (173, 25979), (174, 25988), (180, 26144), (181, 26156), (186, 26222), (190, 26264), (194, 26288), (196, 26321), (203, 26375), (206, 26414), (208, 26426), (217, 26558), (222, 26603), (229, 26729), (233, 26753), (235, 26762), (237, 26771), (238, 26783), (239, 26795), (240, 26810), (245, 26870), (250, 26939),

Gene: Ksquared_21 Start: 19060, Stop: 21321, Start Num: 4

Candidate Starts for Ksquared_21:

(Start: 4 @19060 has 25 MA's), (7, 19069), (35, 19213), (66, 19486), (67, 19498), (71, 19519), (76, 19543), (84, 19618), (93, 19690), (97, 19720), (101, 19756), (107, 19819), (111, 19834), (116, 19861), (117, 19867), (125, 19942), (130, 19966), (132, 19972), (139, 20026), (140, 20032), (164, 20302), (171, 20368), (173, 20386), (175, 20404), (181, 20563), (183, 20590), (185, 20608), (188, 20635), (190, 20671), (192, 20689), (194, 20695), (195, 20722), (196, 20728), (202, 20770), (214, 20911), (216, 20962), (228, 21106), (233, 21142), (234, 21145), (240, 21193), (243, 21217), (245, 21253), (246, 21256), (247, 21265), (249, 21301), (251, 21316),

Gene: Langerak_21 Start: 19022, Stop: 21283, Start Num: 4

Candidate Starts for Langerak_21:

(Start: 4 @19022 has 25 MA's), (7, 19031), (35, 19175), (66, 19448), (67, 19460), (71, 19481), (76, 19505), (84, 19580), (93, 19652), (97, 19682), (101, 19718), (107, 19781), (111, 19796), (116, 19823),

(117, 19829), (125, 19904), (130, 19928), (132, 19934), (139, 19988), (140, 19994), (164, 20264), (171, 20330), (173, 20348), (175, 20366), (181, 20525), (183, 20552), (185, 20570), (188, 20597), (190, 20633), (192, 20651), (194, 20657), (195, 20684), (196, 20690), (202, 20732), (214, 20873), (216, 20924), (228, 21068), (233, 21104), (234, 21107), (240, 21155), (243, 21179), (245, 21215), (246, 21218), (247, 21227), (249, 21263), (251, 21278),

Gene: Laurie_32 Start: 29962, Stop: 32097, Start Num: 30

Candidate Starts for Laurie_32:

(Start: 30 @29962 has 1 MA's), (40, 30016), (45, 30055), (47, 30073), (51, 30100), (53, 30124), (54, 30127), (58, 30160), (68, 30268), (72, 30289), (73, 30292), (81, 30346), (90, 30406), (92, 30430), (98, 30466), (102, 30514), (105, 30535), (109, 30574), (115, 30613), (118, 30628), (122, 30682), (124, 30694), (127, 30718), (131, 30742), (134, 30754), (136, 30769), (138, 30784), (141, 30826), (143, 30844), (147, 30883), (148, 30907), (164, 31078), (171, 31144), (173, 31162), (175, 31180), (181, 31339), (183, 31366), (185, 31384), (188, 31411), (190, 31447), (192, 31465), (194, 31471), (195, 31498), (196, 31504), (202, 31546), (214, 31687), (216, 31738), (228, 31882), (233, 31918), (234, 31921), (240, 31969), (243, 31993), (245, 32029), (246, 32032), (247, 32041), (249, 32077), (251, 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), (23, 18611), (29, 18653), (35, 18680), (41, 18731), (57, 18860), (63, 18938), (64, 18953), (68, 18983), (78, 19031), (80, 19055), (82, 19073), (87, 19121), (91, 19157), (94, 19181), (108, 19316), (118, 19373), (121, 19418), (133, 19478), (138, 19511), (139, 19520), (147, 19601), (158, 19745), (162, 19778), (164, 19796), (166, 19820), (169, 19832), (170, 19853), (171, 19883), (172, 19898), (173, 19901), (176, 19922), (178, 20012), (181, 20078), (184, 20120), (185, 20123), (189, 20153), (190, 20186), (192, 20207), (193, 20210), (198, 20267), (202, 20291), (204, 20306), (205, 20336), (207, 20342), (212, 20420), (213, 20423), (215, 20477), (218, 20501),

Gene: LilhomieP_29 Start: 24622, Stop: 26973, Start Num: 10

Candidate Starts for LilhomieP_29:

(Start: 10 @24622 has 11 MA's), (26, 24742), (28, 24757), (39, 24829), (41, 24850), (43, 24862), (46, 24889), (48, 24898), (66, 25084), (77, 25147), (84, 25216), (88, 25243), (96, 25315), (97, 25318), (99, 25339), (118, 25474), (126, 25555), (129, 25570), (130, 25579), (132, 25585), (146, 25708), (158, 25864), (161, 25882), (162, 25897), (171, 25981), (173, 25999), (174, 26008), (175, 26017), (180, 26164), (181, 26176), (186, 26242), (190, 26284), (194, 26308), (196, 26341), (203, 26395), (206, 26434), (208, 26446), (217, 26578), (222, 26623), (229, 26749), (233, 26773), (235, 26782), (237, 26791), (238, 26803), (239, 26815), (240, 26830), (245, 26890), (250, 26959),

Gene: Magsby_20 Start: 17553, Stop: 19547, Start Num: 11

Candidate Starts for Magsby_20:

(7, 17541), (Start: 11 @17553 has 19 MA's), (14, 17565), (16, 17577), (21, 17631), (34, 17700), (35, 17703), (36, 17712), (38, 17727), (57, 17889), (63, 17967), (64, 17982), (68, 18012), (78, 18060), (80, 18084), (82, 18102), (87, 18150), (91, 18186), (94, 18210), (108, 18345), (118, 18402), (121, 18447), (133, 18507), (138, 18540), (139, 18549), (147, 18630), (158, 18774), (162, 18807), (164, 18825), (166, 18849), (169, 18861), (170, 18882), (171, 18912), (172, 18927), (173, 18930), (176, 18951), (178, 19041), (181, 19107), (184, 19149), (185, 19152), (189, 19182), (190, 19215), (192, 19236), (193, 19239), (198, 19296), (202, 19320), (204, 19335), (205, 19365), (207, 19371), (212, 19449), (213, 19452), (215, 19506), (218, 19530),

Gene: Majeke_21 Start: 19044, Stop: 21305, Start Num: 4

Candidate Starts for Majeke_21:

(Start: 4 @19044 has 25 MA's), (35, 19197), (66, 19470), (67, 19482), (71, 19503), (76, 19527), (84, 19602), (93, 19674), (97, 19704), (101, 19740), (107, 19803), (111, 19818), (116, 19845), (117, 19851), (125, 19926), (130, 19950), (132, 19956), (135, 19968), (139, 20010), (140, 20016), (164, 20286), (171, 20352), (173, 20370), (175, 20388), (181, 20547), (183, 20574), (185, 20592), (188, 20619), (190, 20655), (192, 20673), (194, 20679), (195, 20706), (196, 20712), (202, 20754), (214, 20895), (216, 20946), (228, 21090), (233, 21126), (234, 21129), (240, 21177), (243, 21201), (245, 21237), (246, 21240), (247, 21249), (249, 21285), (251, 21300),

Gene: Malithi_21 Start: 18963, Stop: 21224, Start Num: 4

Candidate Starts for Malithi_21:

(Start: 4 @18963 has 25 MA's), (7, 18972), (35, 19116), (65, 19383), (66, 19389), (67, 19401), (71, 19422), (76, 19446), (84, 19521), (93, 19593), (97, 19623), (101, 19659), (107, 19722), (111, 19737), (116, 19764), (117, 19770), (125, 19845), (130, 19869), (132, 19875), (139, 19929), (140, 19935), (164, 20205), (171, 20271), (173, 20289), (175, 20307), (181, 20466), (183, 20493), (185, 20511), (188, 20538), (190, 20574), (192, 20592), (194, 20598), (195, 20625), (196, 20631), (202, 20673), (214, 20814), (216, 20865), (228, 21009), (233, 21045), (234, 21048), (240, 21096), (243, 21120), (245, 21156), (246, 21159), (247, 21168), (249, 21204), (251, 21219),

Gene: Mangethe_21 Start: 19044, Stop: 21305, Start Num: 4

Candidate Starts for Mangethe_21:

(Start: 4 @19044 has 25 MA's), (35, 19197), (66, 19470), (67, 19482), (71, 19503), (76, 19527), (84, 19602), (93, 19674), (97, 19704), (101, 19740), (107, 19803), (111, 19818), (116, 19845), (117, 19851), (125, 19926), (130, 19950), (132, 19956), (135, 19968), (139, 20010), (140, 20016), (164, 20286), (171, 20352), (173, 20370), (175, 20388), (181, 20547), (183, 20574), (185, 20592), (188, 20619), (190, 20655), (192, 20673), (194, 20679), (195, 20706), (196, 20712), (202, 20754), (214, 20895), (216, 20946), (228, 21090), (233, 21126), (234, 21129), (240, 21177), (243, 21201), (245, 21237), (246, 21240), (247, 21249), (249, 21285), (251, 21300),

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

Candidate Starts for Megabear_24:

(Start: 31 @27160 has 4 MA's), (42, 27229), (47, 27262), (49, 27283), (56, 27340), (60, 27370), (61, 27388), (72, 27481), (73, 27484), (81, 27538), (92, 27622), (98, 27658), (99, 27676), (100, 27679), (105, 27727), (109, 27766), (114, 27802), (118, 27820), (122, 27874), (124, 27886), (127, 27910), (131, 27934), (134, 27946), (136, 27961), (138, 27976), (141, 28018), (147, 28075), (148, 28099), (164, 28270), (171, 28336), (173, 28354), (175, 28372), (181, 28531), (183, 28558), (185, 28576), (188, 28603), (190, 28639), (192, 28657), (194, 28663), (195, 28690), (196, 28696), (202, 28738), (214, 28879), (216, 28930), (228, 29074), (233, 29110), (234, 29113), (240, 29161), (243, 29185), (245, 29221), (246, 29224), (247, 29233), (249, 29269), (251, 29284),

Gene: Melville_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Melville_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: MilanaBonita_19 Start: 18067, Stop: 20265, Start Num: 9

Candidate Starts for MilanaBonita_19:

(5, 18055), (Start: 9 @18067 has 2 MA's), (15, 18088), (18, 18109), (22, 18148), (32, 18217), (34, 18226), (35, 18229), (41, 18280), (44, 18295), (52, 18370), (66, 18505), (67, 18517), (71, 18538), (78, 18571), (94, 18718), (101, 18781), (106, 18820), (107, 18844), (111, 18859), (112, 18868), (117, 18895), (118, 18898), (119, 18901), (125, 18970), (130, 18991), (132, 18997), (137, 19033), (139, 19051), (164, 19327), (171, 19393), (173, 19411), (175, 19429), (181, 19588), (200, 19714), (211, 19855), (214, 19870), (216, 19921), (220, 19948), (221, 19969), (230, 20071), (232, 20086), (234, 20092), (241, 20137), (243, 20155), (244, 20161), (248, 20224),

Gene: Ms6_18 Start: 17407, Stop: 19719, Start Num: 6

Candidate Starts for Ms6_18:

(3, 17395), (Start: 6 @17407 has 12 MA's), (12, 17428), (16, 17449), (20, 17488), (32, 17557), (34, 17566), (35, 17569), (41, 17620), (44, 17635), (52, 17710), (66, 17845), (67, 17857), (71, 17878), (78, 17911), (94, 18058), (99, 18106), (101, 18121), (104, 18142), (105, 18157), (107, 18184), (111, 18199), (112, 18208), (117, 18235), (119, 18241), (122, 18286), (123, 18295), (125, 18310), (129, 18322), (130, 18331), (132, 18337), (134, 18346), (137, 18373), (139, 18391), (146, 18460), (151, 18550), (164, 18667), (171, 18733), (173, 18751), (175, 18769), (180, 18916), (181, 18928), (183, 18955), (184, 18970), (185, 18973), (190, 19036), (191, 19045), (194, 19060), (201, 19126), (207, 19189), (208, 19198), (210, 19252), (216, 19324), (218, 19345), (222, 19381), (223, 19387), (224, 19399), (225, 19402), (227, 19441), (229, 19504), (231, 19513), (234, 19531),

Gene: MulchSalad_18 Start: 17319, Stop: 19319, Start Num: 7

Candidate Starts for MulchSalad_18:

(Start: 4 @17307 has 25 MA's), (7, 17319), (13, 17340), (17, 17361), (20, 17400), (32, 17469), (33, 17472), (34, 17478), (35, 17481), (37, 17499), (57, 17661), (63, 17739), (64, 17754), (68, 17784), (78, 17832), (80, 17856), (82, 17874), (87, 17922), (91, 17958), (94, 17982), (108, 18117), (118, 18174), (121, 18219), (133, 18279), (138, 18312), (139, 18321), (147, 18402), (158, 18546), (162, 18579), (164, 18597), (166, 18621), (169, 18633), (170, 18654), (171, 18684), (172, 18699), (173, 18702), (176, 18723), (178, 18813), (181, 18879), (184, 18921), (185, 18924), (189, 18954), (190, 18987), (192, 19008), (193, 19011), (198, 19068), (202, 19092), (204, 19107), (205, 19137), (207, 19143), (212, 19221), (213, 19224), (215, 19278), (218, 19302),

Gene: Necropolis_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Necropolis_21:

(Start: 4 @19038 has 25 MA's), (7, 19047), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: Nenae_20 Start: 17560, Stop: 19866, Start Num: 6

Candidate Starts for Nenae_20:

(3, 17548), (Start: 6 @17560 has 12 MA's), (12, 17572), (29, 17683), (34, 17707), (35, 17710), (36, 17719), (66, 17992), (67, 18004), (71, 18025), (79, 18070), (94, 18205), (99, 18253), (101, 18268), (104, 18289), (106, 18307), (107, 18331), (111, 18346), (112, 18355), (117, 18382), (119, 18388), (122, 18433), (125, 18457), (129, 18469), (130, 18478), (132, 18484), (137, 18520), (139, 18538), (146, 18607), (151, 18697), (160, 18772), (164, 18814), (172, 18895), (173, 18898), (175, 18916), (177, 18982), (180, 19063), (181, 19075), (183, 19102), (184, 19117), (185, 19120), (190, 19183), (191, 19192), (194, 19207), (201, 19273), (207, 19336), (208, 19345), (210, 19399), (216, 19471), (218, 19492), (222, 19528), (223, 19534), (224, 19546), (225, 19549), (227, 19588), (229, 19651), (231, 19660), (234, 19678),

Gene: Parmesanjohn_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Parmesanjohn_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: PegLeg_30 Start: 24621, Stop: 26972, Start Num: 10

Candidate Starts for PegLeg_30:

(Start: 10 @24621 has 11 MA's), (26, 24741), (28, 24756), (39, 24828), (41, 24849), (43, 24861), (46, 24888), (48, 24897), (66, 25083), (77, 25146), (84, 25215), (88, 25242), (96, 25314), (97, 25317), (99, 25338), (118, 25473), (126, 25554), (129, 25569), (130, 25578), (132, 25584), (146, 25707), (158, 25863), (161, 25881), (162, 25896), (171, 25980), (173, 25998), (174, 26007), (180, 26163), (181, 26175), (186, 26241), (190, 26283), (194, 26307), (196, 26340), (203, 26394), (206, 26433), (208, 26445), (217, 26577), (222, 26622), (229, 26748), (233, 26772), (235, 26781), (237, 26790), (238, 26802), (239, 26814), (240, 26829), (245, 26889), (250, 26958),

Gene: PhancyPhin_20 Start: 17557, Stop: 19863, Start Num: 6

Candidate Starts for PhancyPhin_20:

(3, 17545), (Start: 6 @17557 has 12 MA's), (12, 17569), (29, 17680), (34, 17704), (35, 17707), (36, 17716), (66, 17989), (67, 18001), (71, 18022), (79, 18067), (94, 18202), (99, 18250), (101, 18265), (104, 18286), (106, 18304), (107, 18328), (111, 18343), (112, 18352), (117, 18379), (119, 18385), (122, 18430), (125, 18454), (129, 18466), (130, 18475), (132, 18481), (137, 18517), (139, 18535), (146, 18604), (151, 18694), (160, 18769), (164, 18811), (172, 18892), (173, 18895), (175, 18913), (177, 18979), (180, 19060), (181, 19072), (183, 19099), (184, 19114), (185, 19117), (190, 19180), (191, 19189), (194, 19204), (201, 19270), (207, 19333), (208, 19342), (210, 19396), (216, 19468), (218, 19489), (222, 19525), (223, 19531), (224, 19543), (225, 19546), (227, 19585), (229, 19648), (231, 19657), (234, 19675),

Gene: Phegasus_21 Start: 19044, Stop: 21305, Start Num: 4

Candidate Starts for Phegasus_21:

(Start: 4 @19044 has 25 MA's), (7, 19053), (35, 19197), (66, 19470), (67, 19482), (71, 19503), (76, 19527), (84, 19602), (93, 19674), (97, 19704), (101, 19740), (107, 19803), (111, 19818), (116, 19845), (117, 19851), (125, 19926), (130, 19950), (132, 19956), (139, 20010), (140, 20016), (164, 20286), (171, 20352), (173, 20370), (175, 20388), (181, 20547), (183, 20574), (185, 20592), (188, 20619), (190, 20655), (192, 20673), (194, 20679), (195, 20706), (196, 20712), (202, 20754), (214, 20895), (216, 20946), (228, 21090), (233, 21126), (234, 21129), (240, 21177), (243, 21201), (245, 21237), (246, 21240), (247, 21249), (249, 21285), (251, 21300),

Gene: Philonius_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Philonius_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: Pipsqueaks_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Pipsqueaks_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: Polkaroo_21 Start: 19054, Stop: 21315, Start Num: 4

Candidate Starts for Polkaroo_21:

(Start: 4 @19054 has 25 MA's), (7, 19063), (35, 19207), (66, 19480), (67, 19492), (71, 19513), (76, 19537), (84, 19612), (93, 19684), (97, 19714), (101, 19750), (107, 19813), (111, 19828), (116, 19855), (117, 19861), (125, 19936), (130, 19960), (132, 19966), (139, 20020), (140, 20026), (164, 20296), (171, 20362), (173, 20380), (175, 20398), (181, 20557), (183, 20584), (185, 20602), (188, 20629), (190, 20665), (192, 20683), (194, 20689), (195, 20716), (196, 20722), (202, 20764), (214, 20905), (216, 20956), (228, 21100), (233, 21136), (234, 21139), (240, 21187), (243, 21211), (245, 21247), (246, 21250), (247, 21259), (249, 21295), (251, 21310),

Gene: Purgamenstris_20 Start: 17560, Stop: 19866, Start Num: 6

Candidate Starts for Purgamenstris_20:

(3, 17548), (Start: 6 @17560 has 12 MA's), (12, 17572), (29, 17683), (34, 17707), (35, 17710), (36, 17719), (66, 17992), (67, 18004), (71, 18025), (79, 18070), (94, 18205), (99, 18253), (101, 18268), (104, 18289), (106, 18307), (107, 18331), (111, 18346), (112, 18355), (117, 18382), (119, 18388), (122, 18433), (125, 18457), (129, 18469), (130, 18478), (132, 18484), (137, 18520), (139, 18538), (146, 18607), (151, 18697), (160, 18772), (164, 18814), (172, 18895), (173, 18898), (175, 18916), (177, 18982), (180, 19063), (181, 19075), (183, 19102), (184, 19117), (185, 19120), (190, 19183), (191, 19192), (194, 19207), (201, 19273), (207, 19336), (208, 19345), (210, 19399), (216, 19471), (218, 19492), (222, 19528), (223, 19534), (224, 19546), (225, 19549), (227, 19588), (229, 19651), (231, 19660), (234, 19678),

Gene: QueenHazel_21 Start: 19085, Stop: 21412, Start Num: 8

Candidate Starts for QueenHazel_21:

(Start: 8 @19085 has 2 MA's), (15, 19109), (19, 19145), (27, 19220), (29, 19229), (35, 19256), (52, 19403), (66, 19538), (67, 19550), (71, 19571), (78, 19604), (94, 19751), (101, 19814), (106, 19853), (107, 19877), (111, 19892), (112, 19901), (117, 19928), (118, 19931), (119, 19934), (125, 20003), (130, 20024), (132, 20030), (137, 20066), (139, 20084), (164, 20360), (168, 20387), (171, 20426), (173, 20444), (181, 20621), (186, 20687), (190, 20729), (191, 20738), (194, 20753), (201, 20819), (207, 20882), (208, 20891), (216, 21017), (218, 21038), (222, 21074), (223, 21080), (224, 21092), (225, 21095), (227, 21134), (229, 21197), (231, 21206), (234, 21224),

Gene: Rebel_20 Start: 17557, Stop: 19857, Start Num: 6

Candidate Starts for Rebel_20:

(3, 17545), (Start: 6 @17557 has 12 MA's), (12, 17569), (29, 17680), (34, 17704), (35, 17707), (36, 17716), (66, 17989), (67, 18001), (71, 18022), (76, 18046), (84, 18121), (93, 18193), (97, 18223), (101, 18259), (107, 18322), (111, 18337), (116, 18364), (117, 18370), (118, 18373), (125, 18445), (130, 18469), (132, 18475), (139, 18529), (140, 18535), (164, 18805), (171, 18871), (173, 18889), (175, 18907), (181, 19066), (183, 19093), (184, 19108), (185, 19111), (190, 19174), (191, 19183), (194, 19198), (201, 19264), (207, 19327), (208, 19336), (210, 19390), (216, 19462), (218, 19483), (222, 19519), (223, 19525), (224, 19537), (225, 19540), (227, 19579), (229, 19642), (231, 19651), (234,

19669),

Gene: Redi_20 Start: 17560, Stop: 19866, Start Num: 6

Candidate Starts for Redi_20:

(3, 17548), (Start: 6 @17560 has 12 MA's), (12, 17572), (29, 17683), (34, 17707), (35, 17710), (36, 17719), (66, 17992), (67, 18004), (71, 18025), (79, 18070), (94, 18205), (99, 18253), (101, 18268), (104, 18289), (106, 18307), (107, 18331), (111, 18346), (112, 18355), (117, 18382), (119, 18388), (122, 18433), (125, 18457), (129, 18469), (130, 18478), (132, 18484), (137, 18520), (139, 18538), (146, 18607), (151, 18697), (160, 18772), (164, 18814), (172, 18895), (173, 18898), (175, 18916), (177, 18982), (180, 19063), (181, 19075), (183, 19102), (184, 19117), (185, 19120), (190, 19183), (191, 19192), (194, 19207), (201, 19273), (207, 19336), (208, 19345), (210, 19399), (216, 19471), (218, 19492), (222, 19528), (223, 19534), (224, 19546), (225, 19549), (227, 19588), (229, 19651), (231, 19660), (234, 19678),

Gene: Schnauzer_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Schnauzer_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: ShrimpFriedEgg_20 Start: 17560, Stop: 19866, Start Num: 6

Candidate Starts for ShrimpFriedEgg_20:

(3, 17548), (Start: 6 @17560 has 12 MA's), (12, 17572), (29, 17683), (34, 17707), (35, 17710), (36, 17719), (66, 17992), (67, 18004), (71, 18025), (79, 18070), (94, 18205), (99, 18253), (101, 18268), (104, 18289), (106, 18307), (107, 18331), (111, 18346), (112, 18355), (117, 18382), (119, 18388), (122, 18433), (125, 18457), (129, 18469), (130, 18478), (132, 18484), (137, 18520), (139, 18538), (146, 18607), (151, 18697), (160, 18772), (164, 18814), (172, 18895), (173, 18898), (175, 18916), (177, 18982), (180, 19063), (181, 19075), (183, 19102), (184, 19117), (185, 19120), (190, 19183), (191, 19192), (194, 19207), (201, 19273), (207, 19336), (208, 19345), (210, 19399), (216, 19471), (218, 19492), (222, 19528), (223, 19534), (224, 19546), (225, 19549), (227, 19588), (229, 19651), (231, 19660), (234, 19678),

Gene: Silvafighter_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Silvafighter_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: Silvy_20 Start: 17557, Stop: 19551, Start Num: 11

Candidate Starts for Silvy_20:

(7, 17545), (Start: 11 @17557 has 19 MA's), (14, 17569), (16, 17581), (21, 17635), (34, 17704), (35, 17707), (36, 17716), (38, 17731), (57, 17893), (63, 17971), (64, 17986), (68, 18016), (78, 18064), (80, 18088), (82, 18106), (87, 18154), (91, 18190), (94, 18214), (108, 18349), (118, 18406), (121, 18451),

(133, 18511), (138, 18544), (139, 18553), (147, 18634), (158, 18778), (162, 18811), (164, 18829), (166, 18853), (169, 18865), (170, 18886), (171, 18916), (172, 18931), (173, 18934), (176, 18955), (178, 19045), (181, 19111), (184, 19153), (185, 19156), (189, 19186), (190, 19219), (192, 19240), (193, 19243), (198, 19300), (202, 19324), (204, 19339), (205, 19369), (207, 19375), (212, 19453), (213, 19456), (215, 19510), (218, 19534),

Gene: SlimJimmy_29 Start: 24608, Stop: 26956, Start Num: 10

Candidate Starts for SlimJimmy_29:

(Start: 10 @24608 has 11 MA's), (26, 24728), (28, 24743), (39, 24815), (41, 24836), (43, 24848), (46, 24875), (48, 24884), (50, 24914), (53, 24941), (55, 24968), (65, 25064), (66, 25070), (69, 25094), (79, 25148), (86, 25211), (88, 25229), (96, 25301), (97, 25304), (99, 25325), (118, 25460), (119, 25463), (126, 25541), (132, 25568), (137, 25604), (138, 25607), (140, 25628), (153, 25793), (157, 25829), (158, 25847), (162, 25880), (171, 25964), (173, 25982), (174, 25991), (175, 26000), (180, 26147), (181, 26159), (186, 26225), (190, 26267), (194, 26291), (196, 26324), (203, 26378), (206, 26417), (208, 26429), (217, 26561), (222, 26606), (229, 26732), (233, 26756), (235, 26765), (237, 26774), (238, 26786), (239, 26798), (240, 26813), (245, 26873), (250, 26942),

Gene: Smurph_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Smurph_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: Snekmaggedon_20 Start: 17560, Stop: 19866, Start Num: 6

Candidate Starts for Snekmaggedon_20:

(3, 17548), (Start: 6 @17560 has 12 MA's), (12, 17572), (29, 17683), (34, 17707), (35, 17710), (36, 17719), (59, 17920), (66, 17992), (67, 18004), (71, 18025), (74, 18037), (94, 18205), (99, 18253), (101, 18268), (104, 18289), (105, 18304), (107, 18331), (111, 18346), (112, 18355), (117, 18382), (119, 18388), (122, 18433), (123, 18442), (125, 18457), (129, 18469), (130, 18478), (132, 18484), (134, 18493), (137, 18520), (139, 18538), (146, 18607), (151, 18697), (164, 18814), (171, 18880), (173, 18898), (175, 18916), (180, 19063), (181, 19075), (183, 19102), (184, 19117), (185, 19120), (190, 19183), (191, 19192), (194, 19207), (201, 19273), (207, 19336), (208, 19345), (210, 19399), (216, 19471), (218, 19492), (222, 19528), (223, 19534), (224, 19546), (225, 19549), (227, 19588), (229, 19651), (231, 19660), (234, 19678),

Gene: Sonah_21 Start: 19028, Stop: 21289, Start Num: 4

Candidate Starts for Sonah_21:

(Start: 4 @19028 has 25 MA's), (7, 19037), (35, 19181), (66, 19454), (67, 19466), (71, 19487), (76, 19511), (84, 19586), (93, 19658), (97, 19688), (101, 19724), (107, 19787), (111, 19802), (116, 19829), (117, 19835), (125, 19910), (130, 19934), (132, 19940), (139, 19994), (140, 20000), (164, 20270), (171, 20336), (173, 20354), (175, 20372), (181, 20531), (183, 20558), (185, 20576), (188, 20603), (190, 20639), (192, 20657), (194, 20663), (195, 20690), (196, 20696), (202, 20738), (214, 20879), (216, 20930), (228, 21074), (233, 21110), (234, 21113), (240, 21161), (243, 21185), (245, 21221), (246, 21224), (247, 21233), (249, 21269), (251, 21284),

Gene: SpongeBob_20 Start: 17560, Stop: 19866, Start Num: 6

Candidate Starts for SpongeBob_20:

(3, 17548), (Start: 6 @17560 has 12 MA's), (12, 17572), (29, 17683), (34, 17707), (35, 17710), (36, 17719), (59, 17920), (66, 17992), (67, 18004), (71, 18025), (74, 18037), (94, 18205), (99, 18253), (101, 18268), (104, 18289), (105, 18304), (107, 18331), (111, 18346), (112, 18355), (117, 18382), (119, 18388), (122, 18433), (123, 18442), (125, 18457), (129, 18469), (130, 18478), (132, 18484), (134, 18493), (137, 18520), (139, 18538), (146, 18607), (151, 18697), (164, 18814), (171, 18880), (173, 18898), (175, 18916), (180, 19063), (181, 19075), (183, 19102), (184, 19117), (185, 19120), (190, 19183), (191, 19192), (194, 19207), (201, 19273), (207, 19336), (208, 19345), (210, 19399), (216, 19471), (218, 19492), (222, 19528), (223, 19534), (224, 19546), (225, 19549), (227, 19588), (229, 19651), (231, 19660), (234, 19678),

Gene: StevieRay_21 Start: 19029, Stop: 21290, Start Num: 4

Candidate Starts for StevieRay_21:

(Start: 4 @19029 has 25 MA's), (35, 19182), (66, 19455), (67, 19467), (71, 19488), (76, 19512), (79, 19533), (84, 19587), (93, 19659), (97, 19689), (101, 19725), (107, 19788), (111, 19803), (116, 19830), (117, 19836), (125, 19911), (130, 19935), (132, 19941), (139, 19995), (140, 20001), (164, 20271), (171, 20337), (173, 20355), (175, 20373), (181, 20532), (183, 20559), (185, 20577), (188, 20604), (190, 20640), (192, 20658), (194, 20664), (195, 20691), (196, 20697), (202, 20739), (214, 20880), (216, 20931), (228, 21075), (233, 21111), (234, 21114), (240, 21162), (243, 21186), (245, 21222), (246, 21225), (247, 21234), (249, 21270), (251, 21285),

Gene: Tapioca_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Tapioca_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

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

Candidate Starts for Taptic_24:

(Start: 31 @27160 has 4 MA's), (42, 27229), (47, 27262), (49, 27283), (56, 27340), (60, 27370), (61, 27388), (72, 27481), (73, 27484), (92, 27622), (98, 27658), (100, 27679), (102, 27706), (105, 27727), (109, 27766), (118, 27820), (122, 27874), (124, 27886), (127, 27910), (131, 27934), (134, 27946), (136, 27961), (138, 27976), (141, 28018), (147, 28075), (148, 28099), (164, 28270), (171, 28336), (173, 28354), (175, 28372), (181, 28531), (183, 28558), (185, 28576), (188, 28603), (190, 28639), (192, 28657), (194, 28663), (195, 28690), (196, 28696), (202, 28738), (214, 28879), (216, 28930), (228, 29074), (233, 29110), (234, 29113), (240, 29161), (243, 29185), (245, 29221), (246, 29224), (247, 29233), (249, 29269), (251, 29284),

Gene: Techage_21 Start: 19029, Stop: 21290, Start Num: 4

Candidate Starts for Techage_21:

(Start: 4 @19029 has 25 MA's), (7, 19038), (35, 19182), (66, 19455), (67, 19467), (71, 19488), (76, 19512), (84, 19587), (93, 19659), (97, 19689), (101, 19725), (107, 19788), (111, 19803), (116, 19830), (117, 19836), (125, 19911), (130, 19935), (132, 19941), (139, 19995), (140, 20001), (164, 20271), (171, 20337), (173, 20355), (175, 20373), (181, 20532), (183, 20559), (185, 20577), (188, 20604), (190, 20640), (192, 20658), (194, 20664), (195, 20691), (196, 20697), (202, 20739), (214, 20880), (216, 20931), (228, 21075), (233, 21111), (234, 21114), (240, 21162), (243, 21186), (245, 21222), (246, 21225), (247, 21234), (249, 21270), (251, 21285),

Gene: Thespis_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Thespis_21:

(Start: 4 @19038 has 25 MA's), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (135, 19962), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: Tortoise12_20 Start: 17556, Stop: 19550, Start Num: 11

Candidate Starts for Tortoise12_20:

(7, 17544), (Start: 11 @17556 has 19 MA's), (14, 17568), (16, 17580), (21, 17634), (34, 17703), (35, 17706), (36, 17715), (38, 17730), (57, 17892), (63, 17970), (64, 17985), (68, 18015), (78, 18063), (80, 18087), (82, 18105), (87, 18153), (91, 18189), (94, 18213), (108, 18348), (118, 18405), (121, 18450), (133, 18510), (138, 18543), (139, 18552), (147, 18633), (158, 18777), (162, 18810), (164, 18828), (166, 18852), (169, 18864), (170, 18885), (171, 18915), (172, 18930), (173, 18933), (176, 18954), (178, 19044), (181, 19110), (184, 19152), (185, 19155), (189, 19185), (190, 19218), (192, 19239), (193, 19242), (198, 19299), (202, 19323), (204, 19338), (205, 19368), (207, 19374), (212, 19452), (213, 19455), (215, 19509), (218, 19533),

Gene: TyDawg_30 Start: 24622, Stop: 26973, Start Num: 10

Candidate Starts for TyDawg_30:

(Start: 10 @24622 has 11 MA's), (26, 24742), (28, 24757), (39, 24829), (41, 24850), (43, 24862), (46, 24889), (48, 24898), (66, 25084), (77, 25147), (84, 25216), (88, 25243), (96, 25315), (97, 25318), (99, 25339), (118, 25474), (126, 25555), (129, 25570), (130, 25579), (132, 25585), (146, 25708), (158, 25864), (161, 25882), (162, 25897), (171, 25981), (173, 25999), (174, 26008), (175, 26017), (180, 26164), (181, 26176), (186, 26242), (190, 26284), (194, 26308), (196, 26341), (203, 26395), (206, 26434), (208, 26446), (217, 26578), (222, 26623), (229, 26749), (233, 26773), (235, 26782), (237, 26791), (238, 26803), (239, 26815), (240, 26830), (245, 26890), (250, 26959),

Gene: Venti_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Venti_21:

(Start: 4 @19038 has 25 MA's), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: Vidya_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Vidya_21:

(Start: 4 @19038 has 25 MA's), (7, 19047), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),

Gene: Xerxes_20 Start: 17553, Stop: 19547, Start Num: 11

Candidate Starts for Xerxes_20:

(7, 17541), (Start: 11 @17553 has 19 MA's), (14, 17565), (16, 17577), (21, 17631), (34, 17700), (35, 17703), (36, 17712), (38, 17727), (57, 17889), (63, 17967), (64, 17982), (68, 18012), (78, 18060), (80, 18084), (82, 18102), (87, 18150), (91, 18186), (94, 18210), (108, 18345), (118, 18402), (121, 18447), (133, 18507), (138, 18540), (139, 18549), (147, 18630), (158, 18774), (162, 18807), (164, 18825), (166, 18849), (169, 18861), (170, 18882), (171, 18912), (172, 18927), (173, 18930), (176, 18951), (178, 19041), (181, 19107), (184, 19149), (185, 19152), (189, 19182), (190, 19215), (192, 19236), (193, 19239), (198, 19296), (202, 19320), (204, 19335), (205, 19365), (207, 19371), (212, 19449), (213, 19452), (215, 19506), (218, 19530),

Gene: Xula_20 Start: 18717, Stop: 20930, Start Num: 8

Candidate Starts for Xula_20:

(Start: 8 @18717 has 2 MA's), (15, 18741), (19, 18777), (27, 18852), (29, 18861), (35, 18888), (52, 19035), (66, 19170), (67, 19182), (71, 19203), (78, 19236), (94, 19383), (101, 19446), (106, 19485), (107, 19509), (111, 19524), (112, 19533), (117, 19560), (118, 19563), (119, 19566), (125, 19635), (130, 19656), (132, 19662), (137, 19698), (139, 19716), (164, 19992), (168, 20019), (171, 20058), (173, 20076), (194, 20319), (200, 20379), (211, 20520), (216, 20586), (220, 20613), (221, 20634), (230, 20736), (233, 20754), (241, 20802), (243, 20820), (244, 20826),

Gene: Zilizebeth_21 Start: 19038, Stop: 21299, Start Num: 4

Candidate Starts for Zilizebeth_21:

(Start: 4 @19038 has 25 MA's), (7, 19047), (35, 19191), (66, 19464), (67, 19476), (71, 19497), (76, 19521), (84, 19596), (93, 19668), (97, 19698), (101, 19734), (107, 19797), (111, 19812), (116, 19839), (117, 19845), (125, 19920), (130, 19944), (132, 19950), (139, 20004), (140, 20010), (164, 20280), (171, 20346), (173, 20364), (175, 20382), (181, 20541), (183, 20568), (185, 20586), (188, 20613), (190, 20649), (192, 20667), (194, 20673), (195, 20700), (196, 20706), (202, 20748), (214, 20889), (216, 20940), (228, 21084), (233, 21120), (234, 21123), (240, 21171), (243, 21195), (245, 21231), (246, 21234), (247, 21243), (249, 21279), (251, 21294),