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ID	Name	Age	Sex	DOB	SSN	Address	City	State	Zip	Phone	Notes
51	McMinn	34	F	1984-01-15	888-888-8888	123 Main St	Springfield	IL	62761	217-555-1234	
52	Youre	21	M	1993-02-28	555-555-5555	456 Oak Ave	Chicago	IL	60601	773-555-5678	
53	Joy99	25	F	1998-03-10	333-333-3333	789 Pine St	Peoria	IL	61602	309-555-9999	
54	Mynx	28	F	1995-04-22	222-222-2222	101 Elm St	Rockford	IL	61101	815-555-2222	
55	Anma	30	F	1992-05-05	111-111-1111	202 Maple St	Decatur	IL	62521	662-555-1111	
56	Bern	32	M	1990-06-18	999-999-9999	303 Birch St	Normal	IL	62550	618-555-9999	
57	Bellad	35	F	1988-07-01	888-888-8888	404 Cedar St	Urbana	IL	61801	217-555-8888	
58	LindV	38	F	1985-08-14	777-777-7777	505 Elm St	Champaign	IL	61820	217-555-7777	
59	Clippe	41	M	1982-09-27	666-666-6666	606 Oak St	Springfield	IL	62761	217-555-6666	
60	MarkP	44	M	1979-10-10	555-555-5555	707 Pine St	Springfield	IL	62761	217-555-5555	
61	Cheeto	47	M	1976-11-23	444-444-4444	808 Elm St	Springfield	IL	62761	217-555-4444	
62	Kaiwa	50	F	1973-12-06	333-333-3333	909 Maple St	Springfield	IL	62761	217-555-3333	
63	Adonis	53	M	1970-01-19	222-222-2222	1010 Birch St	Springfield	IL	62761	217-555-2222	
64	Oscar	56	M	1967-02-02	111-111-1111	1111 Cedar St	Springfield	IL	62761	217-555-1111	
65	Zavala	59	F	1964-03-15	999-999-9999	1212 Elm St	Springfield	IL	62761	217-555-9999	
66	Angeli	62	F	1961-04-28	888-888-8888	1313 Maple St	Springfield	IL	62761	217-555-8888	
67	Alisnar	65	F	1958-05-11	777-777-7777	1414 Oak St	Springfield	IL	62761	217-555-7777	
68	Anay	68	F	1955-06-24	666-666-6666	1515 Pine St	Springfield	IL	62761	217-555-6666	
69	Valide	71	F	1952-07-07	555-555-5555	1616 Elm St	Springfield	IL	62761	217-555-5555	
70	Nibo	74	M	1949-08-20	444-444-4444	1717 Maple St	Springfield	IL	62761	217-555-4444	
71	Nikao	77	M	1946-09-03	333-333-3333	1818 Birch St	Springfield	IL	62761	217-555-3333	
72	Curios	80	M	1943-10-16	222-222-2222	1919 Cedar St	Springfield	IL	62761	217-555-2222	
73	PisaI	83	M	1940-11-29	111-111-1111	2020 Elm St	Springfield	IL	62761	217-555-1111	
74	Beezoo	86	M	1937-12-12	999-999-9999	2121 Maple St	Springfield	IL	62761	217-555-9999	
75	LeMona	89	F	1934-01-25	888-888-8888	2222 Oak St	Springfield	IL	62761	217-555-8888	
76	Scarlet	92	F	1931-02-08	777-777-7777	2323 Pine St	Springfield	IL	62761	217-555-7777	
77	veiki	95	F	1928-03-21	666-666-6666	2424 Elm St	Springfield	IL	62761	217-555-6666	
78	LastHo	98	F	1925-04-04	555-555-5555	2525 Maple St	Springfield	IL	62761	217-555-5555	
79	TimBle	101	M	1922-05-17	444-444-4444	2626 Birch St	Springfield	IL	62761	217-555-4444	
80	Guaniel	104	M	1919-06-30	333-333-3333	2727 Cedar St	Springfield	IL	62761	217-555-3333	
81	KIS_21	107	M	1916-07-13	222-222-2222	2828 Elm St	Springfield	IL	62761	217-555-2222	
82	Chris	110	M	1913-08-26	111-111-1111	2929 Maple St	Springfield	IL	62761	217-555-1111	
83	lin_21	113	M	1910-09-09	999-999-9999	3030 Oak St	Springfield	IL	62761	217-555-9999	
84	Calla	116	F	1907-10-22	888-888-8888	3131 Pine St	Springfield	IL	62761	217-555-8888	
85	Efra2	119	M	1904-11-05	777-777-7777	3232 Elm St	Springfield	IL	62761	217-555-7777	
86	Homul	122	M	1901-12-18	666-666-6666	3333 Maple St	Springfield	IL	62761	217-555-6666	
87	Quincy	125	M	1898-01-01	555-555-5555	3434 Birch St	Springfield	IL	62761	217-555-5555	
88	Ganym	128	M	1895-02-14	444-444-4444	3535 Cedar St	Springfield	IL	62761	217-555-4444	
89	Megsje	131	F	1892-03-27	333-333-3333	3636 Elm St	Springfield	IL	62761	217-555-3333	
90	TingHu	134	F	1889-04-10	222-222-2222	3737 Maple St	Springfield	IL	62761	217-555-2222	
91	Llorens	137	M	1886-05-23	111-111-1111	3838 Oak St	Springfield	IL	62761	217-555-1111	
92	ZoeJ	140	F	1883-06-06	999-999-9999	3939 Pine St	Springfield	IL	62761	217-555-9999	
93	Doughn	143	M	1880-07-19	888-888-8888	4040 Elm St	Springfield	IL	62761	217-555-8888	
94	Milly	146	F	1877-08-02	777-777-7777	4141 Maple St	Springfield	IL	62761	217-555-7777	
95	Boost	149	M	1874-09-15	666-666-6666	4242 Birch St	Springfield	IL	62761	217-555-6666	
96	Mufasa	152	M	1871-10-28	555-555-5555	4343 Cedar St	Springfield	IL	62761	217-555-5555	
97	Strobin	155	M	1868-11-11	444-444-4444	4444 Elm St	Springfield	IL	62761	217-555-4444	
98	Dismal	158	M	1865-12-24	333-333-3333	4545 Maple St	Springfield	IL	62761	217-555-3333	
99	TM4	161	M	1862-01-07	222-222-2222	4646 Oak St	Springfield	IL	62761	217-555-2222	
100	Findley	164	M	1859-02-20	111-111-1111	4747 Pine St	Springfield	IL	62761	217-555-1111	

U01: Veig	20	35	46	58	70	108	122	136	150	164	178	192	206	220	234	248	262	276	290	304	318	332	346	360	374	388	402	416	430	444	458	472	486	500	514	528	542	556	570	584	598	612	626	640	654	668	682	696	710	724	738	752	766	780	794	808	822	836	850	864	878	892	906	920	934	948	962	976	990	1004	1018	1032	1046	1060	1074	1088	1102	1116	1130	1144	1158	1172	1186	1200	1214	1228	1242	1256	1270	1284	1298	1312	1326	1340	1354	1368	1382	1396	1410	1424	1438	1452	1466	1480	1494	1508	1522	1536	1550	1564	1578	1592	1606	1620	1634	1648	1662	1676	1690	1704	1718	1732	1746	1760	1774	1788	1802	1816	1830	1844	1858	1872	1886	1900	1914	1928	1942	1956	1970	1984	1998	2012	2026	2040	2054	2068	2082	2096	2110	2124	2138	2152	2166	2180	2194	2208	2222	2236	2250	2264	2278	2292	2306	2320	2334	2348	2362	2376	2390	2404	2418	2432	2446	2460	2474	2488	2502	2516	2530	2544	2558	2572	2586	2600	2614	2628	2642	2656	2670	2684	2698	2712	2726	2740	2754	2768	2782	2796	2810	2824	2838	2852	2866	2880	2894	2908	2922	2936	2950	2964	2978	2992	3006	3020	3034	3048	3062	3076	3090	3104	3118	3132	3146	3160	3174	3188	3202	3216	3230	3244	3258	3272	3286	3300	3314	3328	3342	3356	3370	3384	3398	3412	3426	3440	3454	3468	3482	3496	3510	3524	3538	3552	3566	3580	3594	3608	3622	3636	3650	3664	3678	3692	3706	3720	3734	3748	3762	3776	3790	3804	3818	3832	3846	3860	3874	3888	3902	3916	3930	3944	3958	3972	3986	4000	4014	4028	4042	4056	4070	4084	4098	4112	4126	4140	4154	4168	4182	4196	4210	4224	4238	4252	4266	4280	4294	4308	4322	4336	4350	4364	4378	4392	4406	4420	4434	4448	4462	4476	4490	4504	4518	4532	4546	4560	4574	4588	4602	4616	4630	4644	4658	4672	4686	4700	4714	4728	4742	4756	4770	4784	4798	4812	4826	4840	4854	4868	4882	4896	4910	4924	4938	4952	4966	4980	4994	5008	5022	5036	5050	5064	5078	5092	5106	5120	5134	5148	5162	5176	5190	5204	5218	5232	5246	5260	5274	5288	5302	5316	5330	5344	5358	5372	5386	5400	5414	5428	5442	5456	5470	5484	5498	5512	5526	5540	5554	5568	5582	5596	5610	5624	5638	5652	5666	5680	5694	5708	5722	5736	5750	5764	5778	5792	5806	5820	5834	5848	5862	5876	5890	5904	5918	5932	5946	5960	5974	5988	6002	6016	6030	6044	6058	6072	6086	6100	6114	6128	6142	6156	6170	6184	6198	6212	6226	6240	6254	6268	6282	6296	6310	6324	6338	6352	6366	6380	6394	6408	6422	6436	6450	6464	6478	6492	6506	6520	6534	6548	6562	6576	6590	6604	6618	6632	6646	6660	6674	6688	6702	6716	6730	6744	6758	6772	6786	6800	6814	6828	6842	6856	6870	6884	6898	6912	6926	6940	6954	6968	6982	6996	7010	7024	7038	7052	7066	7080	7094	7108	7122	7136	7150	7164	7178	7192	7206	7220	7234	7248	7262	7276	7290	7304	7318	7332	7346	7360	7374	7388	7402	7416	7430	7444	7458	7472	7486	7500	7514	7528	7542	7556	7570	7584	7598	7612	7626	7640	7654	7668	7682	7696	7710	7724	7738	7752	7766	7780	7794	7808	7822	7836	7850	7864	7878	7892	7906	7920	7934	7948	7962	7976	7990	8004	8018	8032	8046	8060	8074	8088	8102	8116	8130	8144	8158	8172	8186	8200	8214	8228	8242	8256	8270	8284	8298	8312	8326	8340	8354	8368	8382	8396	8410	8424	8438	8452	8466	8480	8494	8508	8522	8536	8550	8564	8578	8592	8606	8620	8634	8648	8662	8676	8690	8704	8718	8732	8746	8760	8774	8788	8802	8816	8830	8844	8858	8872	8886	8900	8914	8928	8942	8956	8970	8984	8998	9012	9026	9040	9054	9068	9082	9096	9110	9124	9138	9152	9166	9180	9194	9208	9222	9236	9250	9264	9278	9292	9306	9320	9334	9348	9362	9376	9390	9404	9418	9432	9446	9460	9474	9488	9502	9516	9530	9544	9558	9572	9586	9600	9614	9628	9642	9656	9670	9684	9698	9712	9726	9740	9754	9768	9782	9796	9810	9824	9838	9852	9866	9880	9894	9908	9922	9936	9950	9964	9978	9992	10006	10020	10034	10048	10062	10076	10090	10104	10118	10132	10146	10160	10174	10188	10202	10216	10230	10244	10258	10272	10286	10300	10314	10328	10342	10356	10370	10384	10398	10412	10426	10440	10454	10468	10482	10496	10510	10524	10538	10552	10566	10580	10594	10608	10622	10636	10650	10664	10678	10692	10706	10720	10734	10748	10762	10776	10790	10804	10818	10832	10846	10860	10874	10888	10902	10916	10930	10944	10958	10972	10986	11000	11014	11028	11042	11056	11070	11084	11098	11112	11126	11140	11154	11168	11182	11196	11210	11224	11238	11252	11266	11280	11294	11308	11322	11336	11350	11364	11378	11392	11406	11420	11434	11448	11462	11476	11490	11504	11518	11532	11546	11560	11574	11588	11602	11616	11630	11644	11658	11672	11686	11700	11714	11728	11742	11756	11770	11784	11798	11812	11826	11840	11854	11868	11882	11896	11910	11924	11938	11952	11966	11980	11994	12008	12022	12036	12050	12064	12078	12092	12106	12120	12134	12148	12162	12176	12190	12204	12218	12232	12246	12260	12274	12288	12302	12316	12330	12344	12358	12372	12386	12400	12414	12428	12442	12456	12470	12484	12498	12512	12526	12540	12554	12568	12582	12596	12610	12624	12638	12652	12666	12680	12694	12708	12722	12736	12750	12764	12778	12792	12806	12820	12834	12848	12862	12876	12890	12904	12918	12932	12946	12960	12974	12988	13002	13016	13030	13044	13058	13072	13086	13100	13114	13128	13142	13156	13170	13184	13198	13212	13226	13240	13254	13268	13282	13296	13310	13324	13338	13352	13366	13380	13394	13408	13422	13436	13450	13464	13478	13492	13506	13520	13534	13548	13562	13576	13590	13604	13618	13632	13646	13660	13674	13688	13702	13716	13730	13744	13758	13772	13786	13800	13814	13828	13842	13856	13870	13884	13898	13912	13926	13940	13954	13968	13982	13996	14010	14024	14038	14052	14066	14080	14094	14108	14122	14136	14150	14164	14178	14192	14206	14220	14234	14248	14262	14276	14290	14304	14318	14332	14346	14360	14374	14388	14402	14416	14430	14444	14458	14472	14486	14500	14514	14528	14542	14556	14570	14584	14598	14612	14626	14640	14654	14668	14682	14696	14710	14724	14738	14752	14766	14780	14794	14808	14822	14836	14850	14864	14878	14892	14906	14920	14934	14948	14962	14976	14990	15004	15018	15032	15046	15060	15074	15088	15102	15116	15130	15144	15158	15172	15186	15200	15214	15228	15242	15256	15270	15284	15298	15312	15326	15340	15354	15368	15382	15396	15410	15424	15438	15452	15466	15480	15494	15508	15522	15536	15550	15564	15578	15592	15606	15620	15634	15648	15662	15676	15690	15704	15718	15732	15746	15760	15774	15788	15802	15816	15830	15844	15858	15872	15886	15900	15914	15928	15942	15956	15970	15984	15998	16012	16026	16040	16054	16068	16082	16096	16110	16124	16138	16152	16166	16180	16194	16208	16222	16236	16250	16264	16278	16292	16306	16320	16334	16348	16362	16376	16390	16404	16418	16432	16446	16460	16474	16488	16502	16516	16530	16544	16558	16572	16586	16600	16614	16628	16642	16656	16670	16684	16698	16712	16726	16740	16754	16768	16782	16796	16810	16824	16838	16852	16866	16880	16894	16908	16922	16936	16950	16964	16978	16992	17006	17020	17034	17048	17062	17076	17090	17104	17118	17132	17146	17160	17174	17188	17202	17216	17230	17244	17258	17272	17286	17300	17314	17328	17342	17356	17370	17384	17398	17412	17426	17440	17454	17468	17482	17496	17510	17524	17538	17552	17566	17580	17594	17608	17622	17636	17650	17664	17678	17692	17706	17720	17734	17748	17762	17776	17790	17804	17818	17832	17846	17860	17874	17888	17902	17916	17930	17944	17958	17972	17986	18000	18014	18028	18042	18056	18070	18084	18098	18112	18126	18140	18154	18168	18182	18196	18210	18224	18238	18252	18266	18280	18294	18308	18322	18336	
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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 311133 Report

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

Pham number 311133 has 333 members, 33 are drafts.

Phages represented in each track:

- Track 1 : 8UZL_19
- Track 2 : Salvus_20, LongHai_20
- Track 3 : Muddy_19
- Track 4 : NoShow_16
- Track 5 : Maco6_17
- Track 6 : FF47_19
- Track 7 : Banquo_24
- Track 8 : DinoDaryn_22, Huffy_22
- Track 9 : TinaLin_23
- Track 10 : TZGordon_22
- Track 11 : Vendetta_20, Goib_21, Splinter_20
- Track 12 : Gsput1_18
- Track 13 : Dardanus_22
- Track 14 : Schmidt_18
- Track 15 : Catfish_20
- Track 16 : Archimedes_14
- Track 17 : Frizzle_14
- Track 18 : Ghobes_14
- Track 19 : Sapo_14
- Track 20 : Cornie_15
- Track 21 : TinaBug_16, Darionha_16, CLED96_16, Frosty24_16, ShaboiShabazz_16, Crespo_16, Jeilious_16, ForeverHowLong_16, DingDing_16, LouisV14_16, Jolene_16, Rattrick_16, AizenPogi_16, BQuat_16, Jane_16, Zombie_16, BPs_16, TomBrady_16, Primanti_16, CassieYates_16, Camri_16, Angel_16, Halo_16, OctaviousRex_16, DMoney_16, ECartman_16, Barkley26_16, Kasen3_16, Richarlison_16, Wendigo_16, PinkYoshi_16, DNAIII_0016, Remy19_16, Gomashi_16, ZoMa_16, Gideon_16, Peeb_16, Jonghyun_16, JorRay_16, Sweets_16, Phloodle_16, Neoh_16, Cherrybomb426_16, Sizemore_16, Plagueis_16, Phreak_16, Olga_16, Aroostook_16, Ruriko_16, Phish_16, Hope_16, MZKinsey_16, Hotshotbaby7_16, Mowgli_16, Schiebel_16, Avrafan_16, Chance64_16, Marmie_16, Cedasite_16, Maliketh_16, Renaissance_16, BruceB_16, Coleslaw_16, GoldenAsh_16, Annihilator_16, Periodt_16, Kareem_16, AzulaCat_16
- Track 22 : Paito_16
- Track 23 : Grizzly_16
- Track 24 : Taheera_16, Terror_16
- Track 25 : Rabbs_16, Sneeze_16
- Track 26 : Liefie_16

- Track 27 : Cambiare_17
- Track 28 : FlagStaff_16
- Track 29 : Avocado_16
- Track 30 : Pace1224_16
- Track 31 : GodSpeed_17
- Track 32 : Cloudyecho_16
- Track 33 : MOOREtheMARYer_16
- Track 34 : Pinnie_17
- Track 35 : Lemuria_16
- Track 36 : Jolie2_16
- Track 37 : Mercurio_17
- Track 38 : Antsirabe_16
- Track 39 : YangYin_16
- Track 40 : Stargaze_16
- Track 41 : Piatt_21, Durfee_21, BaghaKamala_21, Boiii_21, Peel_21, Blizzard_21, Topper_21, Dalmuri_21, Inky_21, JAWS_21, Asayake_21, BGIlluvia_21, Capricorn_21, Jeckyll_21, CREW_21, Padfoot_21, Rosmarinus_21, Twitch_21, BEEST_21, BarrelRoll_21, Hyperbowlee_21, Jarvi_21, Spock_21, ShiaSurprise_21, Lunahalos_21, CaseJules_21
- Track 42 : LilPharaoh_17, Mdavu_17, Nutello_17, Amelie_17, Teejan_17, SgtBeansprout_17, Enkosi_17, Trice_17, Torres_17, Biglebops_17
- Track 43 : Dole_21, Illumine_21, Devera_21
- Track 44 : Apocalypse_21
- Track 45 : Murucutumbu_21, Ageofdapage_21, Stinson_21, LaterM_21
- Track 46 : Slimphazie_21, Adephagia_21, Jayhawk_21, HedwigODU_21, ActinUp_21, Tachez_21, Zabiza_21, Atiba_21, Ramen_21, TruffulaTree_21, Rapunzel97_21
- Track 47 : Chavito_21
- Track 48 : CrimD_21
- Track 49 : Shaobing_21
- Track 50 : Bella96_21, DartGoblin_21
- Track 51 : McMater_21, Niklas_21, Dartin_21, Richo_21, Peanam_21
- Track 52 : YoureAdopted_20
- Track 53 : Joy99_21, Geraldini_21, MeaningOfLife_21
- Track 54 : Mynx_21, Pokerus_20
- Track 55 : Anma_21, SamuelLPlaqsom_21, DrHayes_21, Urkel_21
- Track 56 : Bern_21
- Track 57 : Belladonna_21
- Track 58 : LindNT_21, TreyKay_21, Prithvi_21
- Track 59 : Clipper_21, MacKat_21
- Track 60 : MarkPhew_21
- Track 61 : CheetoDust_21
- Track 62 : TaiwanKao_22
- Track 63 : Adonis_21
- Track 64 : Oscar_20
- Track 65 : Zavala_21
- Track 66 : Angelica_21, Deby_21, Sulley_21
- Track 67 : AlishaPH_21, Emerson_21, Padpat_21
- Track 68 : Anaya_22
- Track 69 : Validus_21
- Track 70 : Nibb_20
- Track 71 : Nikao_17
- Track 72 : Curiosium_22

- Track 73 : Pisa1_20, Pisa4_20
- Track 74 : Beezoo_21
- Track 75 : LeMond_20
- Track 76 : Scarlett_20
- Track 77 : Veliki_21
- Track 78 : LastHope_21
- Track 79 : TiniBug_21
- Track 80 : Guanica15_21, Yunkel11_21
- Track 81 : KiSi_20
- Track 82 : Chris_20
- Track 83 : Tiri_21
- Track 84 : CallaLilly_21
- Track 85 : Efra2_21
- Track 86 : Homura_21
- Track 87 : QuincyRose_20
- Track 88 : Ganymede_22
- Track 89 : Megsy_21
- Track 90 : TingHuaYa_21
- Track 91 : Llorens_21
- Track 92 : ZoeJ_17
- Track 93 : Doughnut_17
- Track 94 : Milly_17
- Track 95 : BoostSeason_17
- Track 96 : Mufasa_17
- Track 97 : Strobilo_17
- Track 98 : DismalFunk_17, Marcoliusprime_17, DismalStressor_17
- Track 99 : TM4_17
- Track 100 : Findley_17
- Track 101 : Neighly_19, Larva_19
- Track 102 : MacnCheese_21
- Track 103 : TBond007_20
- Track 104 : Keshu_20
- Track 105 : Pharb_20
- Track 106 : Pixie_20
- Track 107 : Hurricane_20
- Track 108 : TripleTrouble_19
- Track 109 : Lea83_20, ShedlockHolmes_20
- Track 110 : YasnayaPolyana_22
- Track 111 : OmniCritical_22, Mitti_22, SamScheppers_20
- Track 112 : MissDaisy_22, Patt_22, Reptar3000_22
- Track 113 : Kraw_22, Malthus_22
- Track 114 : Bobquesha_22
- Track 115 : Juliette_22, Ruthiejr_21
- Track 116 : Fionnbharth_22, Wintermute_22
- Track 117 : Chancellor_22
- Track 118 : Qhanda_22, Slarp_22
- Track 119 : Y10_22, JF1_22, Y2_22
- Track 120 : Lebo14_22
- Track 121 : DanSyl44_22
- Track 122 : Cheetobro_22
- Track 123 : Eponine_22
- Track 124 : Taquito_20
- Track 125 : Omnicron_19

- Track 126 : LilDirt_18, Collard_19, InvictusManeo_19, ViviJ_18, BananenDer11_19, DoubleChamp_19, Agent47_19
- Track 127 : Thyatira_19, Waterfoul_19
- Track 128 : Miryou_19
- Track 129 : Kratio_18
- Track 130 : Psycho_19
- Track 131 : Feyre_19
- Track 132 : AlleyCat_19
- Track 133 : OkiRoe_19
- Track 134 : SoSeph_19, Heftyboy_19
- Track 135 : Leston_19, Paola_19, Gengar_19, Guillsminger_19
- Track 136 : Rando14_19
- Track 137 : Edugator_18
- Track 138 : Dadosky_19
- Track 139 : PhelpsODU_20, Unicorn_20
- Track 140 : DarthP_20, Hammy_20
- Track 141 : Krueger_20
- Track 142 : Bryler_20, Cain_20, Tierra_20, Phrank_20
- Track 143 : SirPhilip_20
- Track 144 : Amgine_19
- Track 145 : Fefferhead_20
- Track 146 : Applecrisp_19
- Track 147 : Shadow1_19
- Track 148 : Amohnition_20
- Track 149 : TClif_20
- Track 150 : Yuna_21
- Track 151 : Ximenita_21
- Track 152 : Lavahound_19
- Track 153 : Sunflower1121_19
- Track 154 : Syra333_20
- Track 155 : Marshawn_22
- Track 156 : Ekdilam_18
- Track 157 : Ellie_18
- Track 158 : November_19
- Track 159 : Tigress9_20
- Track 160 : Aminay_19
- Track 161 : Boilgate_18

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

The start number called the most often in the published annotations is 21, it was called in 179 of the 300 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_21, Adephegia_21, Adonis_21, Ageofdapage_21, AizenPogi_16, AlishaPH_21, Amelie_17, Amgine_19, Amohnition_20, Anaya_22, Angel_16, Angelica_21, Anma_21, Annihilator_16, Apocalypse_21, Applecrisp_19, Aroostook_16, Asayake_21, Atiba_21, Avrafan_16, AzulaCat_16, BEEST_21, BGlluviae_21, BPs_16, BQuat_16, BaghaKamala_21, Barkley26_16, BarrelRoll_21, Beezoo_21, Bella96_21, Bern_21, Biglebops_17, Blizzard_21, Boiiii_21, BruceB_16,

CLED96_16, CREW_21, CallaLilly_21, Camri_16, Capricorn_21, CaseJules_21, CassieYates_16, Cedasite_16, Chance64_16, CheetoDust_21, Cherrybomb426_16, Clipper_21, Coleslaw_16, Crespo_16, CrimD_21, DMoney_16, DNAIII_0016, Dalmuri_21, Darionha_16, DartGoblin_21, DarthP_20, Deby_21, Devera_21, DingDing_16, Dole_21, DrHayes_21, Durfee_21, ECartman_16, Ekdilam_18, Ellie_18, Emerson_21, Enkosi_17, Fefferhead_20, ForeverHowLong_16, Frosty24_16, Ganymede_22, Geraldini_21, Gideon_16, GoldenAsh_16, Gomashi_16, Grizzly_16, Halo_16, Hammy_20, HedwigODU_21, Homura_21, Hope_16, Hotshotbaby7_16, Hurricane_20, Hyperbowlee_21, Illumine_21, Inky_21, JAWS_21, Jane_16, Jarvi_21, Jayhawk_21, Jeckyll_21, Jeilious_16, Jolene_16, Jonghyun_16, JorRay_16, Joy99_21, Kareem_16, Kasen3_16, Keshu_20, LaterM_21, Lavahound_19, Lea83_20, Liefie_16, LilPharaoh_17, LindNT_21, Llorens_21, LouisV14_16, Lunahalos_21, MZKinsey_16, MacKat_21, MacnCheese_21, Maliketh_16, Marmie_16, Mdavu_17, MeaningOfLife_21, Megsy_21, Mowgli_16, Murucutumbu_21, Mynx_21, Neoh_16, Nikao_17, November_19, Nutello_17, OctaviousRex_16, Olga_16, Padfoot_21, Padpat_21, Paito_16, Peeb_16, Peel_21, Periodt_16, Pharb_20, Phish_16, Phloodle_16, Phreak_16, Piatt_21, PinkYoshi_16, Pisa1_20, Pisa4_20, Pixie_20, Plagueis_16, Pokerus_20, Primanti_16, Prithvi_21, QuincyRose_20, Rabbs_16, Ramen_21, Rapunzel97_21, Rattrick_16, Remy19_16, Renaissance_16, Richarlison_16, Rosmarinus_21, Ruriko_16, SamuelLPlaqson_21, Schiebel_16, SgtBeansprout_17, ShaboiShabazz_16, ShedlockHolmes_20, ShiaSurprise_21, Sizemore_16, Slimphazie_21, Sneeze_16, Spock_21, Stinson_21, Sulley_21, Sweets_16, TBond007_20, Tachez_21, Taheera_16, TaiwanKao_22, Teejan_17, Terror_16, TinaBug_16, TiniBug_21, Tiri_21, TomBrady_16, Topper_21, Torres_17, TreyKay_21, TripleTrouble_19, Trice_17, TruffulaTree_21, Twitch_21, Urkel_21, Veliki_21, Wendigo_16, YoureAdopted_20, Zabiza_21, Zavala_21, ZoMa_16, Zombie_16,

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

- Belladonna_21,

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

- 8UZL_19, Agent47_19, AlleyCat_19, Aminay_19, Antsirabe_16, Archimedes_14, Avocado_16, BananenDer11_19, Banquo_24, Bobquesha_22, Boilgate_18, BoostSeason_17, Bryler_20, Cain_20, Cambiare_17, Catfish_20, Chancellor_22, Chavito_21, Cheetobro_22, Chris_20, Cloudyecho_16, Collard_19, Cornie_15, Curiosium_22, Dadosky_19, DanSyl44_22, Dardanus_22, Dartin_21, DinoDaryn_22, DismalFunk_17, DismalStressor_17, DoubleChamp_19, Doughnut_17, Edugator_18, Efra2_21, Eponine_22, FF47_19, Feyre_19, Findley_17, Fionnbharth_22, FlagStaff_16, Frizzle_14, Gengar_19, Ghobes_14, GodSpeed_17, Goib_21, Gsput1_18, Guanica15_21, Guillsminger_19, Heftyboy_19, Huffy_22, InvictusManeo_19, JF1_22, Jolie2_16, Juliette_22, KiSi_20, Kratio_18, Kraw_22, Krueger_20, Larva_19, LastHope_21, LeMond_20, Lebo14_22, Lemuria_16, Leston_19, LilDirt_18, LongHai_20, MOOREtheMARYer_16, Maco6_17, Malthus_22, Marcoliusprime_17, MarkPhew_21, Marshawn_22, McMater_21, Mercurio_17, Milly_17, Miryou_19, MissDaisy_22, Mitti_22, Muddy_19, Mufasa_17, Neighly_19, Nibb_20, Niklas_21, NoShow_16, OkiRoe_19, OmniCritical_22, Omnicron_19, Oscar_20, Pace1224_16, Paola_19, Patt_22, Peanam_21, PhelpsODU_20, Phrank_20, Pinnie_17, Psycho_19, Qhanda_22, Rando14_19, Reptar3000_22, Richo_21, Ruthiejr_21, Salvus_20, SamScheppers_20, Sapo_14, Scarlett_20, Schmidt_18, Shadow1_19, Shaobing_21, SirPhilip_20, Slarp_22, SoSeph_19, Splinter_20, Stargaze_16, Strobilo_17, Sunflower1121_19, Syra333_20, TClif_20, TM4_17, TZGordon_22, Taquito_20, Thyatira_19, Tierra_20, Tigress9_20,

TinaLin_23, TingHuaYa_21, Unicorn_20, Validus_21, Vendetta_20, ViviJ_18, Waterfoul_19, Wintermute_22, Ximenita_21, Y10_22, Y2_22, YangYin_16, YasnayaPolyana_22, Yuna_21, Yunkel11_21, ZoeJ_17,

Summary by start number:

Start 5:

- Found in 4 of 333 (1.2%) of genes in pham
- Manual Annotations of this start: 4 of 300
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes_14 (DA), Frizzle_14 (DA), Ghobes_14 (DA), Sapo_14 (DA),

Start 7:

- Found in 1 of 333 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 300
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_16 (AB),

Start 18:

- Found in 2 of 333 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 300
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Psycho_19 (K5),

Start 20:

- Found in 39 of 333 (11.7%) of genes in pham
- Manual Annotations of this start: 36 of 300
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Agent47_19 (K5), AlleyCat_19 (K5), BananenDer11_19 (K5), BoostSeason_17 (K2), Collard_19 (K5), Cornie_15 (F5), Dadosky_19 (K5), DismalFunk_17 (K2), DismalStressor_17 (K2), DoubleChamp_19 (K5), Doughnut_17 (K2), Edugator_18 (K5), Feyre_19 (K5), Findley_17 (K2), Gengar_19 (K5), Guillsminger_19 (K5), Heftyboy_19 (K5), InvictusManeo_19 (K5), Kratio_18 (K5), Larva_19 (K5), Leston_19 (K5), LiIDirt_18 (K5), Marcoliusprime_17 (K2), Milly_17 (K2), Miryou_19 (K5), Mufasa_17 (K2), Neighly_19 (K3), OkiRoe_19 (K5), Omnicron_19 (K5), Paola_19 (K5), Rando14_19 (K5), SoSeph_19 (K5), Strobilo_17 (K2), TM4_17 (K2), Thyatira_19 (K5), ViviJ_18 (K5), Waterfoul_19 (K5), ZoeJ_17 (K2),

Start 21:

- Found in 193 of 333 (58.0%) of genes in pham
- Manual Annotations of this start: 179 of 300
- Called 99.5% of time when present
- Phage (with cluster) where this start called: ActinUp_21 (K1), Adephegia_21 (K1), Adonis_21 (K1), Ageofdapage_21 (K1), AizenPogi_16 (G1), AlishaPH_21 (K1), Amelie_17 (K1), Amgine_19 (K6), Amohnition_20 (K6), Anaya_22 (K1), Angel_16 (G1), Angelica_21 (K1), Anma_21 (K1), Annihilator_16 (G1), Apocalypse_21 (K1), Applecrisp_19 (K6), Aroostook_16 (G1), Asayake_21 (K1), Atiba_21 (K1), Avrafan_16 (G1), AzulaCat_16 (G1), BEEST_21 (K1), BGlluviae_21 (K1), BPs_16 (G1), BQuat_16 (G1), BaghaKamala_21 (K1), Barkley26_16 (G1), BarrelRoll_21 (K1), Beezoo_21 (K1), Bella96_21 (K1), Bern_21 (K1), Binglebops_17 (K1), Blizzard_21 (K1), Boiiii_21 (K1), BruceB_16 (G1), CLED96_16 (G1), CREW_21 (K1),

CallaLilly_21 (K1), Camri_16 (G1), Capricorn_21 (K1), CaseJules_21 (K1), CassieYates_16 (G1), Cedasite_16 (G1), Chance64_16 (G1), CheetoDust_21 (K1), Cherrybomb426_16 (G1), Clipper_21 (K1), Coleslaw_16 (G1), Crespo_16 (G1), CrimD_21 (K1), DMoney_16 (G1), DNAll_0016 (G1), Dalmuri_21 (K1), Darionha_16 (G1), DartGoblin_21 (K1), DarthP_20 (K6), Deby_21 (K1), Devera_21 (K1), DingDing_16 (G1), Dole_21 (K1), DrHayes_21 (K1), Durfee_21 (K1), ECartman_16 (G1), Ekdilam_18 (K6), Ellie_18 (K6), Emerson_21 (K1), Enkosi_17 (K1), Fefferhead_20 (K6), ForeverHowLong_16 (G1), Frosty24_16 (G1), Ganymede_22 (K1), Geraldini_21 (K1), Gideon_16 (G1), GoldenAsh_16 (G1), Gomashi_16 (G1), Grizzly_16 (G1), Halo_16 (G1), Hammy_20 (K6), HedwigODU_21 (K1), Homura_21 (K1), Hope_16 (G1), Hotshotbaby7_16 (G1), Hurricane_20 (K3), Hyperbowlee_21 (K1), Illumine_21 (K1), Inky_21 (K1), JAWS_21 (K1), Jane_16 (G1), Jarvi_21 (K1), Jayhawk_21 (K1), Jeckyll_21 (K1), Jeilious_16 (G), Jolene_16 (G1), Jonghyun_16 (G1), JorRay_16 (G1), Joy99_21 (K1), Kareem_16 (G1), Kasen3_16 (G1), Keshu_20 (K3), LaterM_21 (K1), Lavahound_19 (K6), Lea83_20 (K3), Liefie_16 (G1), LilPharaoh_17 (K1), LindNT_21 (K1), Llorens_21 (K1), LouisV14_16 (G1), Lunahalos_21 (K1), MZKinsey_16 (G1), MacKat_21 (K1), MacnCheese_21 (K3), Maliketh_16 (G1), Marmie_16 (G1), Mdavu_17 (K1), MeaningOfLife_21 (K1), Megsy_21 (K1), Mowgli_16 (G1), Murucutumbu_21 (K1), Mynx_21 (K1), Neoh_16 (G), Nikao_17 (K1), November_19 (K6), Nutello_17 (K1), OctaviousRex_16 (G1), Olga_16 (G1), Padfoot_21 (K1), Padpat_21 (K1), Paito_16 (G1), Peeb_16 (G1), Peel_21 (K1), Periodt_16 (G1), Pharb_20 (K3), Phish_16 (G1), Phloodle_16 (G1), Phreak_16 (G1), Piatt_21 (K1), PinkYoshi_16 (G1), Pisa1_20 (K1), Pisa4_20 (K1), Pixie_20 (K3), Plagueis_16 (G1), Pokerus_20 (K1), Primanti_16 (G1), Prithvi_21 (K1), QuincyRose_20 (K1), Rabbs_16 (G1), Ramen_21 (K1), Rapunzel97_21 (K1), Rattrick_16 (G1), Remy19_16 (G1), Renaissance_16 (G1), Richarlison_16 (G1), Rosmarinus_21 (K1), Ruriko_16 (G1), SamuelLPlaqson_21 (K1), Schiebel_16 (G1), SgtBeansprout_17 (K1), ShaboiShabazz_16 (G1), ShedlockHolmes_20 (K3), ShiaSurprise_21 (K1), Sizemore_16 (G1), Slimphazie_21 (K1), Sneeze_16 (G1), Spock_21 (K1), Stinson_21 (K1), Sulley_21 (K1), Sweets_16 (G1), TBond007_20 (K3), Tachez_21 (K1), Taheera_16 (G1), TaiwanKao_22 (K1), Teejan_17 (K1), Terror_16 (G1), TinaBug_16 (G1), TiniBug_21 (K1), Tiri_21 (K1), TomBrady_16 (G1), Topper_21 (K1), Torres_17 (K1), TreyKay_21 (K1), TribbleTrouble_19 (K3), Trice_17 (K1), TruffulaTree_21 (K1), Twitch_21 (K1), Urkel_21 (K1), Veliki_21 (K1), Wendigo_16 (G1), YoureAdopted_20 (K1), Zabiza_21 (K1), Zavalá_21 (K1), ZoMa_16 (G1), Zombie_16 (G1),

Start 22:

- Found in 78 of 333 (23.4%) of genes in pham
- Manual Annotations of this start: 64 of 300
- Called 98.7% of time when present
- Phage (with cluster) where this start called: Aminay_19 (K7), Antsirabe_16 (G5), Avocado_16 (G2), Bobquesha_22 (K4), Bryler_20 (K6), Cain_20 (K6), Cambiare_17 (G2), Chancellor_22 (K4), Chavito_21 (K1), Cheetobro_22 (K4), Chris_20 (K1), Cloudyecho_16 (G3), Curiosium_22 (K1), DanSyl44_22 (K4), Dartin_21 (K1), Efra2_21 (K1), Eponine_22 (K4), Fionnbharth_22 (K4), FlagStaff_16 (G2), GodSpeed_17 (G2), Guanica15_21 (K1), JF1_22 (K4), Jolie2_16 (G4), Juliette_22 (K4), KiSi_20 (K1), Kraw_22 (K4), Krueger_20 (K6), LastHope_21 (K1), LeMond_20 (K1), Lebo14_22 (K4), Lemuria_16 (G4), MOOREtheMARYer_16 (G3), Malthus_22 (K4), MarkPhew_21 (K1), Marshawn_22 (K6), McMater_21 (K1), Mercurio_17 (G4), MissDaisy_22 (K4), Mitti_22 (K4), Nibb_20 (K1), Niklas_21 (K1), OmniCritical_22 (K4), Oscar_20 (K1), Pace1224_16 (G2), Patt_22 (K4), Peanam_21 (K1), PhelpsODU_20 (K6), Phrank_20 (K6), Pinnie_17 (G3), Qhanda_22 (K4),

Reptar3000_22 (K4), Richo_21 (K1), Ruthiejr_21 (K4), SamScheppers_20 (K4), Scarlett_20 (K1), Shadow1_19 (K6), Shaobing_21 (K1), SirPhilip_20 (K6), Slarp_22 (K4), Stargaze_16 (G5), Sunflower1121_19 (K6), Syra333_20 (K6), TClif_20 (K6), Taquito_20 (K4), Tierra_20 (K6), Tigress9_20 (K6), TingHuaYa_21 (K1), Unicorn_20 (K6), Validus_21 (K1), Wintermute_22 (K4), Ximenita_21 (K6), Y10_22 (K4), Y2_22 (K4), YangYin_16 (G5), YasnayaPolyana_22 (K4), Yuna_21 (K6), Yunkel11_21 (K1),

Start 31:

- Found in 12 of 333 (3.6%) of genes in pham
- Manual Annotations of this start: 11 of 300
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo_24 (CU1), Catfish_20 (CU5), Dardanus_22 (CU3), DinoDaryn_22 (CU1), Goib_21 (CU1), Gspu1_18 (CU2), Huffy_22 (CU1), Schmidt_18 (CU4), Splinter_20 (CU1), TZGordon_22 (CU1), TinaLin_23 (CU1), Vendetta_20 (CU1),

Start 33:

- Found in 129 of 333 (38.7%) of genes in pham
- Manual Annotations of this start: 1 of 300
- Called 0.8% of time when present
- Phage (with cluster) where this start called: Belladonna_21 (K1),

Start 35:

- Found in 35 of 333 (10.5%) of genes in pham
- Manual Annotations of this start: 1 of 300
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Boilgate_18 (K8),

Start 89:

- Found in 11 of 333 (3.3%) of genes in pham
- Manual Annotations of this start: 2 of 300
- Called 54.5% of time when present
- Phage (with cluster) where this start called: 8UZL_19 (AB), FF47_19 (AB), LongHai_20 (AB), Maco6_17 (AB), Muddy_19 (AB), Salvus_20 (AB),

Summary by clusters:

There are 22 clusters represented in this pham: DA, K3, K2, K1, K7, K6, K5, K4, K8, G5, G4, G3, CU2, G1, AB, G, CU5, CU4, CU3, G2, F5, CU1,

Info for manual annotations of cluster AB:

- Start number 7 was manually annotated 1 time for cluster AB.
- Start number 89 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster CU1:

- Start number 31 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 31 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 31 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 31 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DA:

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

Info for manual annotations of cluster F5:

- Start number 20 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster G:

- Start number 21 was manually annotated 1 time for cluster G.

Info for manual annotations of cluster G1:

- Start number 21 was manually annotated 67 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 22 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 22 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 22 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 22 was manually annotated 2 times for cluster G5.

Info for manual annotations of cluster K1:

- Start number 21 was manually annotated 92 times for cluster K1.
- Start number 22 was manually annotated 16 times for cluster K1.
- Start number 33 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K2:

- Start number 20 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 21 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 22 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 18 was manually annotated 1 time for cluster K5.
- Start number 20 was manually annotated 24 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 21 was manually annotated 10 times for cluster K6.
- Start number 22 was manually annotated 16 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 22 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 35 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: 8UZL_19 Start: 11439, Stop: 14888, Start Num: 89

Candidate Starts for 8UZL_19:

(Start: 89 @11439 has 2 MA's), (94, 11454), (107, 11502), (108, 11505), (119, 11550), (147, 11673), (227, 12000), (230, 12012), (237, 12033), (254, 12117), (267, 12171), (269, 12180), (283, 12234), (285, 12243), (289, 12267), (293, 12276), (305, 12318), (325, 12363), (329, 12375), (335, 12396), (342, 12420), (359, 12474), (376, 12528), (384, 12549), (387, 12561), (393, 12585), (396, 12594), (417, 12672), (465, 12798), (477, 12840), (563, 13008), (564, 13014), (578, 13059), (611, 13182), (631, 13260), (640, 13293), (645, 13320), (647, 13332), (675, 13440), (681, 13449), (700, 13542), (714, 13572), (724, 13608), (734, 13638), (737, 13656), (749, 13683), (750, 13686), (768, 13740), (769, 13743), (790, 13833), (800, 13881), (803, 13896), (807, 13914), (812, 13929), (824, 13989), (831, 14022), (833, 14031), (836, 14040), (852, 14076), (858, 14091), (909, 14286), (939, 14481), (953, 14577), (956, 14595), (976, 14637), (978, 14643), (990, 14670), (1026, 14772), (1028, 14781), (1041, 14820),

Gene: ActinUp_21 Start: 12079, Stop: 15918, Start Num: 21

Candidate Starts for ActinUp_21:

(Start: 21 @12079 has 179 MA's), (Start: 33 @12148 has 1 MA's), (43, 12235), (78, 12412), (84, 12439), (103, 12511), (106, 12523), (108, 12532), (124, 12604), (143, 12679), (162, 12763), (164, 12772), (168, 12793), (177, 12832), (193, 12910), (212, 12988), (237, 13078), (252, 13153), (275, 13246), (277, 13255), (280, 13267), (282, 13276), (365, 13537), (370, 13552), (382, 13585), (406, 13672), (414, 13696), (440, 13780), (471, 13864), (475, 13876), (479, 13897), (608, 14053), (625, 14134), (640, 14182), (643, 14200), (647, 14221), (654, 14257), (670, 14308), (690, 14365), (711, 14443), (714, 14452), (737, 14530), (758, 14587), (774, 14641), (831, 14881), (857, 14956), (892, 15067), (918, 15286), (921, 15298), (952, 15487), (953, 15496), (981, 15568), (997, 15598), (1003, 15619), (1045, 15739), (1062, 15811), (1064, 15829), (1065, 15835),

Gene: Adephagia_21 Start: 12079, Stop: 15915, Start Num: 21

Candidate Starts for Adephagia_21:

(Start: 21 @12079 has 179 MA's), (Start: 33 @12148 has 1 MA's), (43, 12235), (78, 12412), (84, 12439), (103, 12511), (106, 12523), (108, 12532), (124, 12604), (143, 12679), (162, 12763), (164, 12772), (168, 12793), (177, 12832), (193, 12910), (212, 12988), (237, 13078), (252, 13153), (275, 13246), (277, 13255), (280, 13267), (282, 13276), (365, 13537), (370, 13552), (382, 13585), (406, 13672), (414, 13696), (440, 13780), (471, 13864), (475, 13876), (479, 13897), (608, 14053), (625, 14134), (640, 14182), (643, 14200), (647, 14221), (654, 14257), (670, 14308), (690, 14365), (711, 14443), (714, 14452), (737, 14530), (758, 14587), (774, 14641), (831, 14881), (857, 14956), (892, 15067), (918, 15286), (921, 15298), (952, 15484), (953, 15493), (981, 15565), (997, 15595), (1003, 15616), (1045, 15736), (1062, 15808), (1064, 15826), (1065, 15832),

Gene: Adonis_21 Start: 12088, Stop: 15921, Start Num: 21

Candidate Starts for Adonis_21:

(3, 11869), (14, 12049), (Start: 21 @12088 has 179 MA's), (Start: 33 @12157 has 1 MA's), (43, 12244), (78, 12421), (84, 12448), (106, 12532), (108, 12541), (124, 12613), (143, 12688), (162, 12772), (164, 12781), (168, 12802), (177, 12841), (193, 12919), (212, 12997), (237, 13087), (252, 13162), (275, 13255), (277, 13264), (280, 13276), (282, 13285), (341, 13468), (358, 13522), (370, 13561), (382, 13594), (406, 13681), (414, 13705), (440, 13789), (471, 13873), (475, 13885), (479, 13906), (608, 14062), (625, 14143), (640, 14191), (643, 14209), (647, 14230), (654, 14266), (670, 14317), (690,

14374), (711, 14452), (714, 14461), (737, 14539), (758, 14596), (774, 14650), (831, 14890), (857, 14965), (892, 15076), (918, 15295), (921, 15307), (952, 15490), (953, 15499), (997, 15601), (1003, 15622), (1045, 15742), (1062, 15814), (1064, 15832), (1065, 15838),

Gene: Agent47_19 Start: 12236, Stop: 16342, Start Num: 20

Candidate Starts for Agent47_19:

(Start: 20 @12236 has 36 MA's), (Start: 35 @12329 has 1 MA's), (45, 12407), (46, 12431), (58, 12491), (79, 12575), (82, 12587), (108, 12689), (122, 12749), (124, 12761), (129, 12782), (143, 12836), (154, 12884), (164, 12929), (168, 12950), (193, 13067), (212, 13145), (218, 13169), (237, 13235), (252, 13310), (275, 13403), (282, 13433), (338, 13607), (341, 13616), (350, 13646), (358, 13670), (364, 13691), (385, 13751), (406, 13829), (409, 13838), (434, 13916), (460, 13982), (472, 14024), (475, 14033), (488, 14117), (494, 14138), (500, 14171), (518, 14237), (524, 14258), (541, 14312), (544, 14321), (551, 14339), (559, 14357), (562, 14366), (572, 14396), (581, 14432), (597, 14486), (605, 14522), (608, 14528), (611, 14546), (638, 14651), (650, 14717), (711, 14912), (719, 14942), (730, 14975), (749, 15026), (753, 15047), (760, 15062), (761, 15068), (783, 15152), (797, 15200), (806, 15239), (819, 15299), (829, 15332), (834, 15353), (842, 15377), (853, 15407), (878, 15473), (895, 15545), (940, 15860), (941, 15869), (942, 15872), (948, 15914), (952, 15941), (959, 15971), (981, 16022), (989, 16040), (1023, 16106), (1036, 16154), (1045, 16178), (1049, 16190), (1066, 16271), (1068, 16295), (1073, 16334),

Gene: Ageofdapage_21 Start: 12015, Stop: 15848, Start Num: 21

Candidate Starts for Ageofdapage_21:

(Start: 21 @12015 has 179 MA's), (Start: 33 @12084 has 1 MA's), (43, 12171), (78, 12351), (84, 12378), (106, 12462), (108, 12471), (122, 12531), (124, 12543), (143, 12618), (152, 12660), (162, 12702), (164, 12711), (168, 12732), (177, 12771), (193, 12849), (212, 12927), (252, 13092), (275, 13185), (280, 13206), (282, 13215), (358, 13452), (365, 13476), (370, 13491), (382, 13524), (406, 13611), (440, 13719), (471, 13803), (475, 13815), (479, 13836), (493, 13917), (608, 13992), (625, 14073), (629, 14082), (640, 14121), (643, 14139), (647, 14160), (654, 14196), (670, 14247), (690, 14304), (711, 14382), (714, 14391), (737, 14469), (744, 14484), (758, 14526), (774, 14580), (831, 14820), (857, 14895), (892, 15006), (918, 15225), (940, 15339), (952, 15420), (953, 15429), (981, 15501), (997, 15531), (1003, 15552), (1045, 15669), (1062, 15741), (1065, 15765),

Gene: AizenPogi_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for AizenPogi_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: AlishaPH_21 Start: 12075, Stop: 15908, Start Num: 21

Candidate Starts for AlishaPH_21:

(Start: 21 @12075 has 179 MA's), (Start: 33 @12144 has 1 MA's), (43, 12231), (54, 12306), (78, 12408), (84, 12435), (103, 12507), (106, 12519), (108, 12528), (124, 12600), (143, 12675), (162, 12759), (164, 12768), (168, 12789), (177, 12828), (193, 12906), (212, 12984), (237, 13074), (252, 13149), (275, 13242), (277, 13251), (280, 13263), (282, 13272), (358, 13509), (370, 13548), (382, 13581), (406, 13668), (414, 13692), (440, 13776), (471, 13860), (475, 13872), (479, 13893), (608, 14049), (625, 14130), (640, 14178), (643, 14196), (647, 14217), (654, 14253), (670, 14304), (690, 14361), (711, 14439), (714, 14448), (737, 14526), (744, 14541), (758, 14583), (774, 14637), (831,

14877), (857, 14952), (892, 15063), (918, 15282), (921, 15294), (952, 15477), (953, 15486), (981, 15558), (997, 15588), (1003, 15609), (1045, 15729), (1062, 15801), (1064, 15819), (1065, 15825),

Gene: AlleyCat_19 Start: 12112, Stop: 16224, Start Num: 20

Candidate Starts for AlleyCat_19:

(Start: 20 @12112 has 36 MA's), (Start: 35 @12205 has 1 MA's), (45, 12283), (46, 12307), (58, 12367), (79, 12451), (108, 12565), (122, 12625), (124, 12637), (129, 12658), (143, 12712), (154, 12760), (164, 12805), (168, 12826), (193, 12943), (212, 13021), (218, 13045), (229, 13087), (237, 13111), (252, 13186), (275, 13279), (282, 13309), (338, 13483), (350, 13522), (358, 13546), (364, 13567), (385, 13627), (406, 13705), (409, 13714), (434, 13792), (460, 13858), (472, 13900), (475, 13909), (488, 13993), (494, 14014), (500, 14047), (506, 14068), (518, 14113), (524, 14134), (541, 14188), (544, 14197), (551, 14215), (562, 14242), (572, 14272), (581, 14308), (605, 14398), (608, 14404), (611, 14422), (638, 14527), (650, 14593), (711, 14788), (719, 14818), (730, 14851), (749, 14902), (753, 14923), (760, 14938), (761, 14944), (783, 15028), (797, 15076), (806, 15115), (819, 15175), (829, 15208), (834, 15229), (842, 15253), (853, 15283), (878, 15349), (895, 15421), (940, 15736), (941, 15745), (942, 15748), (944, 15775), (948, 15790), (950, 15805), (952, 15817), (959, 15847), (981, 15901), (989, 15919), (1023, 15988), (1036, 16036), (1045, 16060), (1049, 16072), (1053, 16081), (1066, 16153), (1068, 16177), (1073, 16216),

Gene: Amelie_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for Amelie_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: Amgine_19 Start: 11863, Stop: 16011, Start Num: 21

Candidate Starts for Amgine_19:

(Start: 21 @11863 has 179 MA's), (Start: 33 @11932 has 1 MA's), (54, 12094), (78, 12196), (79, 12202), (84, 12223), (122, 12376), (124, 12388), (143, 12463), (164, 12556), (168, 12577), (177, 12616), (193, 12694), (212, 12772), (218, 12796), (233, 12850), (237, 12862), (252, 12937), (275, 13030), (297, 13111), (321, 13174), (336, 13228), (343, 13249), (346, 13261), (358, 13297), (364, 13318), (373, 13345), (382, 13369), (388, 13390), (393, 13411), (406, 13456), (448, 13582), (460, 13630), (477, 13690), (478, 13696), (494, 13786), (522, 13897), (537, 13948), (539, 13954), (559, 14005), (572, 14044), (576, 14065), (608, 14176), (620, 14236), (630, 14269), (634, 14287), (640, 14305), (643, 14323), (646, 14335), (654, 14380), (670, 14431), (690, 14479), (711, 14557), (737, 14644), (739, 14650), (762, 14716), (764, 14719), (782, 14794), (799, 14860), (831, 14995), (852, 15055), (857, 15070), (860, 15076), (941, 15526), (952, 15598), (953, 15607), (983, 15694), (1045, 15847), (1065, 15946), (1068, 15973), (1069, 15985),

Gene: Aminay_19 Start: 11993, Stop: 16294, Start Num: 22

Candidate Starts for Aminay_19:

(Start: 22 @11993 has 64 MA's), (23, 12002), (30, 12041), (Start: 35 @12083 has 1 MA's), (43, 12149), (47, 12194), (75, 12308), (85, 12356), (95, 12395), (96, 12398), (106, 12434), (122, 12503), (124, 12515), (127, 12530), (129, 12536), (164, 12683), (168, 12704), (177, 12743), (178, 12746), (193, 12821), (204, 12866), (212, 12899), (218, 12923), (237, 12989), (238, 12992), (242, 13010), (244, 13019), (249, 13052), (255, 13076), (259, 13097), (291, 13214), (337, 13355), (338, 13358), (341,

13367), (358, 13421), (359, 13427), (368, 13457), (381, 13490), (388, 13514), (395, 13541), (406, 13580), (411, 13595), (413, 13601), (419, 13628), (440, 13688), (448, 13706), (455, 13736), (461, 13757), (475, 13805), (476, 13808), (477, 13814), (479, 13826), (492, 13904), (524, 14030), (546, 14099), (552, 14117), (565, 14150), (566, 14153), (574, 14180), (593, 14234), (608, 14288), (615, 14327), (620, 14348), (626, 14372), (640, 14420), (650, 14480), (652, 14489), (667, 14546), (670, 14579), (672, 14588), (678, 14630), (691, 14696), (711, 14777), (714, 14786), (782, 14993), (831, 15194), (857, 15269), (870, 15299), (905, 15485), (941, 15749), (948, 15794), (952, 15821), (989, 15947), (999, 15965), (1004, 15986), (1022, 16043), (1023, 16046), (1044, 16118), (1066, 16220), (1068, 16244), (1073, 16283),

Gene: Amohnition_20 Start: 12196, Stop: 16386, Start Num: 21

Candidate Starts for Amohnition_20:

(15, 12151), (Start: 21 @12196 has 179 MA's), (Start: 33 @12265 has 1 MA's), (43, 12352), (54, 12427), (75, 12514), (76, 12517), (91, 12589), (106, 12640), (108, 12649), (122, 12709), (124, 12721), (129, 12742), (143, 12796), (149, 12826), (164, 12889), (168, 12910), (177, 12949), (193, 13027), (212, 13105), (218, 13129), (237, 13195), (250, 13261), (259, 13303), (269, 13342), (273, 13354), (280, 13384), (282, 13393), (320, 13507), (325, 13522), (341, 13576), (350, 13606), (358, 13630), (364, 13651), (381, 13699), (393, 13744), (394, 13747), (406, 13789), (413, 13810), (430, 13858), (448, 13915), (453, 13930), (461, 13966), (464, 13978), (477, 14023), (478, 14029), (494, 14119), (559, 14338), (572, 14377), (576, 14398), (602, 14485), (608, 14509), (612, 14536), (613, 14539), (620, 14569), (634, 14620), (643, 14656), (670, 14764), (711, 14899), (712, 14902), (732, 14968), (735, 14974), (749, 15013), (773, 15085), (775, 15091), (780, 15112), (801, 15196), (808, 15226), (813, 15247), (814, 15259), (831, 15340), (841, 15373), (846, 15382), (849, 15388), (863, 15430), (875, 15481), (877, 15487), (918, 15778), (940, 15892), (941, 15901), (942, 15904), (952, 15973), (1003, 16108), (1027, 16177), (1045, 16225), (1065, 16321), (1069, 16360),

Gene: Anaya_22 Start: 12098, Stop: 15934, Start Num: 21

Candidate Starts for Anaya_22:

(Start: 21 @12098 has 179 MA's), (Start: 33 @12167 has 1 MA's), (43, 12254), (78, 12431), (84, 12458), (103, 12530), (106, 12542), (108, 12551), (124, 12623), (143, 12698), (149, 12728), (162, 12782), (164, 12791), (168, 12812), (177, 12851), (193, 12929), (203, 12971), (212, 13007), (218, 13031), (237, 13097), (252, 13172), (275, 13265), (277, 13274), (280, 13286), (282, 13295), (358, 13532), (365, 13556), (370, 13571), (382, 13604), (406, 13691), (414, 13715), (440, 13799), (471, 13883), (475, 13895), (479, 13916), (608, 14072), (625, 14153), (643, 14219), (647, 14240), (654, 14276), (670, 14327), (690, 14384), (711, 14462), (714, 14471), (737, 14549), (758, 14606), (774, 14660), (831, 14900), (857, 14975), (860, 14981), (892, 15086), (918, 15305), (952, 15503), (953, 15512), (997, 15614), (1003, 15635), (1029, 15710), (1045, 15755), (1062, 15827), (1064, 15845), (1065, 15851),

Gene: Angel_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Angel_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Angelica_21 Start: 12050, Stop: 15883, Start Num: 21

Candidate Starts for Angelica_21:

(Start: 21 @12050 has 179 MA's), (Start: 33 @12119 has 1 MA's), (43, 12206), (78, 12383), (84, 12410), (106, 12494), (108, 12503), (124, 12575), (143, 12650), (162, 12734), (164, 12743), (168, 12764), (177, 12803), (193, 12881), (212, 12959), (237, 13049), (252, 13124), (275, 13217), (280, 13238), (282, 13247), (358, 13484), (370, 13523), (382, 13556), (406, 13643), (414, 13667), (440, 13751), (471, 13835), (475, 13847), (479, 13868), (608, 14024), (625, 14105), (640, 14153), (643, 14171), (647, 14192), (654, 14228), (670, 14279), (690, 14336), (711, 14414), (714, 14423), (737, 14501), (744, 14516), (758, 14558), (774, 14612), (831, 14852), (857, 14927), (892, 15038), (918, 15257), (921, 15269), (952, 15452), (953, 15461), (997, 15563), (1003, 15584), (1045, 15704), (1062, 15776), (1064, 15794), (1065, 15800),

Gene: Anma_21 Start: 12024, Stop: 15863, Start Num: 21

Candidate Starts for Anma_21:

(Start: 21 @12024 has 179 MA's), (Start: 33 @12093 has 1 MA's), (43, 12180), (78, 12360), (84, 12387), (106, 12471), (108, 12480), (122, 12540), (124, 12552), (143, 12627), (155, 12678), (164, 12720), (168, 12741), (177, 12780), (193, 12858), (212, 12936), (218, 12960), (252, 13101), (275, 13194), (280, 13215), (282, 13224), (358, 13461), (365, 13485), (370, 13500), (382, 13533), (406, 13620), (434, 13707), (440, 13728), (471, 13812), (475, 13824), (479, 13845), (608, 14001), (625, 14082), (643, 14148), (647, 14169), (654, 14205), (670, 14256), (680, 14274), (690, 14313), (711, 14391), (737, 14478), (744, 14493), (758, 14535), (774, 14589), (831, 14829), (857, 14904), (892, 15015), (895, 15036), (898, 15057), (914, 15177), (940, 15351), (952, 15432), (953, 15441), (981, 15513), (997, 15543), (1003, 15564), (1045, 15684), (1062, 15756), (1064, 15774), (1065, 15780),

Gene: Annihilator_16 Start: 11455, Stop: 15468, Start Num: 21

Candidate Starts for Annihilator_16:

(Start: 21 @11455 has 179 MA's), (47, 11656), (75, 11770), (84, 11812), (90, 11842), (124, 11977), (126, 11989), (129, 11998), (174, 12187), (177, 12205), (178, 12208), (183, 12229), (186, 12241), (199, 12313), (212, 12361), (246, 12493), (250, 12517), (269, 12598), (304, 12721), (333, 12805), (344, 12841), (358, 12886), (359, 12892), (393, 13000), (401, 13024), (406, 13045), (478, 13264), (509, 13414), (532, 13501), (571, 13609), (608, 13744), (634, 13855), (640, 13873), (646, 13903), (707, 14125), (717, 14149), (721, 14164), (726, 14185), (737, 14212), (749, 14239), (769, 14299), (790, 14389), (795, 14422), (812, 14485), (823, 14542), (831, 14575), (833, 14584), (942, 15088), (944, 15115), (950, 15145), (952, 15157), (953, 15166), (981, 15235), (1023, 15316), (1040, 15376), (1047, 15394), (1050, 15403),

Gene: Antsirabe_16 Start: 11833, Stop: 15810, Start Num: 22

Candidate Starts for Antsirabe_16:

(Start: 22 @11833 has 64 MA's), (36, 11926), (51, 12046), (66, 12109), (72, 12127), (87, 12190), (99, 12226), (115, 12298), (117, 12304), (123, 12331), (127, 12349), (139, 12394), (149, 12430), (153, 12445), (181, 12568), (188, 12610), (192, 12625), (202, 12661), (218, 12724), (223, 12745), (243, 12817), (246, 12835), (281, 12976), (289, 13018), (300, 13048), (301, 13051), (303, 13060), (305, 13069), (318, 13111), (340, 13183), (342, 13189), (346, 13204), (352, 13222), (353, 13225), (364, 13258), (372, 13285), (387, 13330), (406, 13393), (414, 13417), (416, 13429), (417, 13432), (462, 13561), (475, 13603), (476, 13606), (494, 13708), (509, 13768), (522, 13819), (549, 13903), (572, 13966), (587, 14023), (602, 14074), (605, 14092), (608, 14098), (618, 14149), (630, 14191), (650, 14287), (694, 14410), (697, 14428), (716, 14494), (719, 14509), (739, 14575), (759, 14629), (763, 14644), (781, 14725), (784, 14734), (807, 14827), (816, 14881), (817, 14884), (828, 14917), (854, 14992), (942, 15454), (944, 15481), (952, 15523), (975, 15610), (976, 15613), (984, 15631), (988, 15634), (1027, 15718), (1031, 15736),

Gene: Apocalypse_21 Start: 12053, Stop: 15886, Start Num: 21

Candidate Starts for Apocalypse_21:

(Start: 21 @12053 has 179 MA's), (Start: 33 @12122 has 1 MA's), (43, 12209), (78, 12386), (84, 12413), (106, 12497), (108, 12506), (124, 12578), (143, 12653), (162, 12737), (164, 12746), (168,

12767), (177, 12806), (193, 12884), (212, 12962), (218, 12986), (237, 13052), (252, 13127), (275, 13220), (277, 13229), (280, 13241), (282, 13250), (358, 13487), (370, 13526), (382, 13559), (406, 13646), (414, 13670), (440, 13754), (471, 13838), (475, 13850), (479, 13871), (608, 14027), (625, 14108), (633, 14132), (640, 14156), (643, 14174), (647, 14195), (654, 14231), (670, 14282), (690, 14339), (711, 14417), (714, 14426), (737, 14504), (744, 14519), (758, 14561), (774, 14615), (831, 14855), (857, 14930), (892, 15041), (918, 15260), (921, 15272), (952, 15455), (953, 15464), (981, 15536), (997, 15566), (1003, 15587), (1045, 15707), (1062, 15779), (1064, 15797), (1065, 15803),

Gene: Applecrisp_19 Start: 12274, Stop: 16422, Start Num: 21

Candidate Starts for Applecrisp_19:

(Start: 21 @12274 has 179 MA's), (Start: 33 @12343 has 1 MA's), (54, 12505), (78, 12607), (79, 12613), (84, 12634), (122, 12787), (124, 12799), (143, 12874), (149, 12904), (164, 12967), (168, 12988), (177, 13027), (193, 13105), (212, 13183), (218, 13207), (237, 13273), (252, 13348), (275, 13441), (284, 13474), (297, 13522), (321, 13585), (336, 13639), (337, 13642), (343, 13660), (346, 13672), (364, 13729), (373, 13756), (382, 13780), (388, 13801), (393, 13822), (406, 13867), (460, 14041), (494, 14197), (524, 14317), (537, 14359), (539, 14365), (564, 14437), (572, 14455), (576, 14476), (608, 14587), (620, 14647), (630, 14680), (634, 14698), (640, 14716), (643, 14734), (646, 14746), (654, 14791), (670, 14842), (690, 14890), (711, 14968), (737, 15055), (739, 15061), (744, 15070), (762, 15127), (764, 15130), (782, 15205), (799, 15271), (831, 15406), (852, 15466), (857, 15481), (860, 15487), (941, 15937), (952, 16009), (953, 16018), (983, 16105), (1045, 16258), (1065, 16357), (1068, 16384), (1069, 16396),

Gene: Archimedes_14 Start: 9058, Stop: 13707, Start Num: 5

Candidate Starts for Archimedes_14:

(2, 8959), (Start: 5 @9058 has 4 MA's), (8, 9097), (10, 9163), (37, 9337), (56, 9505), (62, 9526), (86, 9631), (105, 9694), (109, 9715), (133, 9820), (136, 9832), (140, 9841), (166, 9952), (205, 10108), (206, 10111), (213, 10141), (222, 10171), (233, 10210), (235, 10219), (247, 10273), (258, 10327), (263, 10348), (271, 10378), (293, 10474), (296, 10486), (307, 10525), (313, 10549), (325, 10588), (338, 10633), (350, 10669), (357, 10690), (413, 10861), (433, 10945), (439, 10966), (444, 10978), (458, 11020), (464, 11041), (472, 11068), (475, 11077), (500, 11218), (502, 11227), (511, 11254), (525, 11317), (533, 11356), (538, 11380), (594, 11563), (605, 11608), (612, 11641), (619, 11671), (638, 11737), (643, 11761), (653, 11815), (710, 12073), (724, 12124), (729, 12145), (742, 12184), (792, 12358), (807, 12433), (830, 12529), (831, 12535), (845, 12562), (867, 12616), (894, 12763), (896, 12772), (897, 12781), (904, 12829), (923, 13000), (937, 13090), (945, 13144), (996, 13405), (1004, 13435), (1008, 13471), (1009, 13474), (1016, 13516), (1018, 13522), (1033, 13627), (1048, 13669),

Gene: Aroostook_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Aroostook_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Asayake_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Asayake_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237,

13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Atiba_21 Start: 12042, Stop: 15878, Start Num: 21

Candidate Starts for Atiba_21:

(Start: 21 @12042 has 179 MA's), (Start: 33 @12111 has 1 MA's), (43, 12198), (78, 12375), (84, 12402), (103, 12474), (106, 12486), (108, 12495), (124, 12567), (143, 12642), (162, 12726), (164, 12735), (168, 12756), (177, 12795), (193, 12873), (212, 12951), (237, 13041), (252, 13116), (275, 13209), (277, 13218), (280, 13230), (282, 13239), (365, 13500), (370, 13515), (382, 13548), (406, 13635), (414, 13659), (440, 13743), (471, 13827), (475, 13839), (479, 13860), (608, 14016), (625, 14097), (640, 14145), (643, 14163), (647, 14184), (654, 14220), (670, 14271), (690, 14328), (711, 14406), (714, 14415), (737, 14493), (758, 14550), (774, 14604), (831, 14844), (857, 14919), (892, 15030), (918, 15249), (921, 15261), (952, 15447), (953, 15456), (981, 15528), (997, 15558), (1003, 15579), (1045, 15699), (1062, 15771), (1064, 15789), (1065, 15795),

Gene: Avocado_16 Start: 11691, Stop: 15731, Start Num: 22

Candidate Starts for Avocado_16:

(Start: 22 @11691 has 64 MA's), (36, 11784), (41, 11814), (58, 11961), (79, 12045), (Start: 89 @12093 has 2 MA's), (124, 12231), (129, 12252), (143, 12306), (164, 12399), (168, 12420), (174, 12441), (177, 12459), (183, 12483), (186, 12495), (199, 12567), (204, 12582), (212, 12615), (246, 12747), (250, 12771), (255, 12792), (261, 12825), (269, 12852), (280, 12894), (291, 12942), (336, 13080), (337, 13083), (350, 13125), (372, 13194), (373, 13197), (394, 13266), (406, 13308), (432, 13386), (472, 13503), (475, 13512), (478, 13527), (491, 13608), (494, 13617), (509, 13677), (541, 13791), (562, 13845), (569, 13869), (571, 13872), (572, 13875), (580, 13905), (588, 13935), (613, 14037), (618, 14058), (645, 14163), (646, 14166), (693, 14319), (698, 14337), (717, 14403), (721, 14418), (728, 14442), (746, 14484), (749, 14493), (769, 14553), (790, 14643), (812, 14739), (823, 14796), (831, 14829), (863, 14904), (909, 15099), (940, 15309), (950, 15378), (952, 15390), (953, 15399), (957, 15420), (1023, 15579), (1047, 15657),

Gene: Avrafan_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Avrafan_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: AzulaCat_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for AzulaCat_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912),

(707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: BEEST_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for BEEST_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: BGlluviae_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for BGlluviae_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: BPs_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for BPs_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: BQuat_16 Start: 11455, Stop: 15468, Start Num: 21

Candidate Starts for BQuat_16:

(Start: 21 @11455 has 179 MA's), (47, 11656), (75, 11770), (84, 11812), (90, 11842), (124, 11977), (126, 11989), (129, 11998), (174, 12187), (177, 12205), (178, 12208), (183, 12229), (186, 12241), (199, 12313), (212, 12361), (246, 12493), (250, 12517), (269, 12598), (304, 12721), (333, 12805), (344, 12841), (358, 12886), (359, 12892), (393, 13000), (401, 13024), (406, 13045), (478, 13264), (509, 13414), (532, 13501), (571, 13609), (608, 13744), (634, 13855), (640, 13873), (646, 13903), (707, 14125), (717, 14149), (721, 14164), (726, 14185), (737, 14212), (749, 14239), (769, 14299), (790, 14389), (795, 14422), (812, 14485), (823, 14542), (831, 14575), (833, 14584), (942, 15088), (944, 15115), (950, 15145), (952, 15157), (953, 15166), (981, 15235), (1023, 15316), (1040, 15376),

(1047, 15394), (1050, 15403),

Gene: BaghaKamala_21 Start: 12045, Stop: 15878, Start Num: 21

Candidate Starts for BaghaKamala_21:

(Start: 21 @12045 has 179 MA's), (Start: 33 @12114 has 1 MA's), (43, 12201), (54, 12276), (78, 12378), (84, 12405), (103, 12477), (106, 12489), (108, 12498), (124, 12570), (143, 12645), (162, 12729), (164, 12738), (168, 12759), (177, 12798), (186, 12834), (193, 12876), (212, 12954), (237, 13044), (252, 13119), (275, 13212), (277, 13221), (280, 13233), (282, 13242), (358, 13479), (370, 13518), (382, 13551), (406, 13638), (414, 13662), (440, 13746), (471, 13830), (475, 13842), (479, 13863), (608, 14019), (625, 14100), (640, 14148), (643, 14166), (647, 14187), (654, 14223), (670, 14274), (690, 14331), (711, 14409), (714, 14418), (737, 14496), (744, 14511), (758, 14553), (774, 14607), (831, 14847), (857, 14922), (892, 15033), (918, 15252), (921, 15264), (952, 15447), (953, 15456), (981, 15528), (997, 15558), (1003, 15579), (1045, 15699), (1062, 15771), (1064, 15789), (1065, 15795),

Gene: BananenDer11_19 Start: 12197, Stop: 16303, Start Num: 20

Candidate Starts for BananenDer11_19:

(Start: 20 @12197 has 36 MA's), (Start: 35 @12290 has 1 MA's), (45, 12368), (46, 12392), (58, 12452), (79, 12536), (82, 12548), (108, 12650), (122, 12710), (124, 12722), (129, 12743), (143, 12797), (154, 12845), (164, 12890), (168, 12911), (193, 13028), (212, 13106), (218, 13130), (237, 13196), (252, 13271), (275, 13364), (282, 13394), (338, 13568), (341, 13577), (350, 13607), (358, 13631), (364, 13652), (385, 13712), (406, 13790), (409, 13799), (434, 13877), (460, 13943), (472, 13985), (475, 13994), (488, 14078), (494, 14099), (500, 14132), (518, 14198), (524, 14219), (541, 14273), (544, 14282), (551, 14300), (559, 14318), (562, 14327), (572, 14357), (581, 14393), (597, 14447), (605, 14483), (608, 14489), (611, 14507), (638, 14612), (650, 14678), (711, 14873), (719, 14903), (730, 14936), (749, 14987), (753, 15008), (760, 15023), (761, 15029), (783, 15113), (797, 15161), (806, 15200), (819, 15260), (829, 15293), (834, 15314), (842, 15338), (853, 15368), (878, 15434), (895, 15506), (940, 15821), (941, 15830), (942, 15833), (948, 15875), (952, 15902), (959, 15932), (981, 15983), (989, 16001), (1023, 16067), (1036, 16115), (1045, 16139), (1049, 16151), (1066, 16232), (1068, 16256), (1073, 16295),

Gene: Banquo_24 Start: 13267, Stop: 16992, Start Num: 31

Candidate Starts for Banquo_24:

(Start: 31 @13267 has 11 MA's), (39, 13309), (44, 13375), (75, 13510), (92, 13588), (130, 13735), (170, 13852), (190, 13906), (198, 13939), (231, 14053), (262, 14170), (264, 14176), (272, 14200), (309, 14284), (314, 14311), (324, 14326), (338, 14365), (348, 14398), (360, 14431), (375, 14473), (379, 14482), (387, 14497), (389, 14503), (405, 14548), (417, 14593), (422, 14611), (435, 14665), (444, 14689), (463, 14749), (466, 14758), (472, 14776), (475, 14785), (477, 14794), (483, 14845), (489, 14869), (500, 14920), (505, 14938), (516, 14971), (520, 14992), (522, 14998), (534, 15049), (535, 15055), (556, 15118), (583, 15202), (604, 15292), (679, 15610), (697, 15685), (707, 15730), (713, 15757), (714, 15760), (730, 15814), (758, 15868), (764, 15886), (831, 16162), (865, 16237), (872, 16267), (908, 16438), (910, 16447), (927, 16591), (931, 16612), (936, 16636), (961, 16753), (963, 16765), (967, 16792), (974, 16810), (987, 16885), (995, 16912), (997, 16918), (1010, 16972), (1013, 16987),

Gene: Barkley26_16 Start: 11464, Stop: 15480, Start Num: 21

Candidate Starts for Barkley26_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308),

(790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15100), (944, 15127), (950, 15157), (952, 15169), (953, 15178), (981, 15247), (1023, 15328), (1040, 15388), (1047, 15406), (1050, 15415),

Gene: BarrelRoll_21 Start: 12068, Stop: 15901, Start Num: 21

Candidate Starts for BarrelRoll_21:

(Start: 21 @12068 has 179 MA's), (Start: 33 @12137 has 1 MA's), (43, 12224), (54, 12299), (78, 12401), (84, 12428), (103, 12500), (106, 12512), (108, 12521), (124, 12593), (143, 12668), (162, 12752), (164, 12761), (168, 12782), (177, 12821), (186, 12857), (193, 12899), (212, 12977), (237, 13067), (252, 13142), (275, 13235), (277, 13244), (280, 13256), (282, 13265), (358, 13502), (370, 13541), (382, 13574), (406, 13661), (414, 13685), (440, 13769), (471, 13853), (475, 13865), (479, 13886), (608, 14042), (625, 14123), (640, 14171), (643, 14189), (647, 14210), (654, 14246), (670, 14297), (690, 14354), (711, 14432), (714, 14441), (737, 14519), (744, 14534), (758, 14576), (774, 14630), (831, 14870), (857, 14945), (892, 15056), (918, 15275), (921, 15287), (952, 15470), (953, 15479), (981, 15551), (997, 15581), (1003, 15602), (1045, 15722), (1062, 15794), (1064, 15812), (1065, 15818),

Gene: Beezoo_21 Start: 12092, Stop: 15925, Start Num: 21

Candidate Starts for Beezoo_21:

(Start: 21 @12092 has 179 MA's), (Start: 33 @12161 has 1 MA's), (Start: 35 @12182 has 1 MA's), (43, 12248), (78, 12425), (84, 12452), (103, 12524), (106, 12536), (108, 12545), (124, 12617), (143, 12692), (162, 12776), (164, 12785), (168, 12806), (177, 12845), (193, 12923), (212, 13001), (237, 13091), (252, 13166), (275, 13259), (277, 13268), (280, 13280), (282, 13289), (358, 13526), (370, 13565), (382, 13598), (406, 13685), (414, 13709), (440, 13793), (471, 13877), (475, 13889), (476, 13892), (479, 13910), (608, 14066), (625, 14147), (640, 14195), (643, 14213), (647, 14234), (654, 14270), (670, 14321), (690, 14378), (711, 14456), (714, 14465), (737, 14543), (744, 14558), (758, 14600), (774, 14654), (831, 14894), (857, 14969), (892, 15080), (918, 15299), (921, 15311), (952, 15494), (953, 15503), (997, 15605), (1003, 15626), (1045, 15746), (1062, 15818), (1064, 15836), (1065, 15842),

Gene: Bella96_21 Start: 12006, Stop: 15845, Start Num: 21

Candidate Starts for Bella96_21:

(Start: 21 @12006 has 179 MA's), (Start: 33 @12075 has 1 MA's), (43, 12162), (78, 12342), (84, 12369), (106, 12453), (108, 12462), (122, 12522), (124, 12534), (143, 12609), (152, 12651), (162, 12693), (164, 12702), (168, 12723), (177, 12762), (178, 12765), (193, 12840), (212, 12918), (252, 13083), (275, 13176), (280, 13197), (282, 13206), (358, 13443), (365, 13467), (370, 13482), (382, 13515), (406, 13602), (434, 13689), (440, 13710), (471, 13794), (475, 13806), (479, 13827), (608, 13983), (625, 14064), (643, 14130), (647, 14151), (654, 14187), (670, 14238), (680, 14256), (690, 14295), (711, 14373), (714, 14382), (737, 14460), (744, 14475), (758, 14517), (774, 14571), (831, 14811), (857, 14886), (892, 14997), (895, 15018), (898, 15039), (914, 15159), (940, 15333), (952, 15414), (953, 15423), (981, 15495), (997, 15525), (1003, 15546), (1045, 15666), (1062, 15738), (1064, 15756), (1065, 15762),

Gene: Belladonna_21 Start: 12185, Stop: 15949, Start Num: 33

Candidate Starts for Belladonna_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953,

15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Bern_21 Start: 12034, Stop: 15873, Start Num: 21

Candidate Starts for Bern_21:

(Start: 21 @12034 has 179 MA's), (Start: 33 @12103 has 1 MA's), (43, 12190), (78, 12370), (84, 12397), (106, 12481), (122, 12550), (124, 12562), (143, 12637), (155, 12688), (164, 12730), (168, 12751), (177, 12790), (193, 12868), (212, 12946), (252, 13111), (275, 13204), (280, 13225), (282, 13234), (358, 13471), (365, 13495), (370, 13510), (382, 13543), (406, 13630), (434, 13717), (440, 13738), (471, 13822), (475, 13834), (478, 13849), (479, 13855), (625, 14092), (640, 14140), (643, 14158), (647, 14179), (654, 14215), (659, 14233), (670, 14266), (711, 14401), (714, 14410), (737, 14488), (744, 14503), (758, 14545), (774, 14599), (831, 14839), (857, 14914), (892, 15025), (895, 15046), (898, 15067), (914, 15187), (940, 15361), (952, 15442), (953, 15451), (981, 15523), (997, 15553), (1003, 15574), (1045, 15694), (1062, 15766), (1064, 15784), (1065, 15790),

Gene: Biglebops_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for Biglebops_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: Blizzard_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Blizzard_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Bobquesha_22 Start: 13067, Stop: 17233, Start Num: 22

Candidate Starts for Bobquesha_22:

(15, 13031), (Start: 22 @13067 has 64 MA's), (47, 13265), (103, 13493), (106, 13505), (108, 13514), (113, 13544), (129, 13607), (164, 13754), (168, 13775), (177, 13814), (178, 13817), (193, 13892), (212, 13970), (235, 14057), (237, 14060), (244, 14090), (249, 14123), (255, 14147), (276, 14231), (283, 14261), (291, 14288), (328, 14396), (334, 14417), (337, 14429), (341, 14441), (358, 14495), (406, 14654), (413, 14675), (440, 14783), (476, 14903), (532, 15152), (572, 15263), (586, 15314), (588, 15323), (601, 15368), (605, 15389), (635, 15488), (640, 15503), (641, 15509), (657, 15578), (662, 15599), (664, 15608), (669, 15620), (672, 15629), (698, 15701), (711, 15752), (712, 15755), (719, 15782), (758, 15881), (765, 15899), (782, 15974), (829, 16163), (831, 16175), (857, 16250), (898, 16430), (914, 16550), (926, 16658), (952, 16805), (989, 16925), (997, 16934), (998, 16937), (1033, 17036), (1044, 17063), (1065, 17159), (1071, 17222),

Gene: Boiiii_21 Start: 12118, Stop: 15951, Start Num: 21

Candidate Starts for Boiiii_21:

(Start: 21 @12118 has 179 MA's), (Start: 33 @12187 has 1 MA's), (43, 12274), (54, 12349), (78, 12451), (84, 12478), (103, 12550), (106, 12562), (108, 12571), (124, 12643), (143, 12718), (162, 12802), (164, 12811), (168, 12832), (177, 12871), (186, 12907), (193, 12949), (212, 13027), (237, 13117), (252, 13192), (275, 13285), (277, 13294), (280, 13306), (282, 13315), (358, 13552), (370, 13591), (382, 13624), (406, 13711), (414, 13735), (440, 13819), (471, 13903), (475, 13915), (479, 13936), (608, 14092), (625, 14173), (640, 14221), (643, 14239), (647, 14260), (654, 14296), (670, 14347), (690, 14404), (711, 14482), (714, 14491), (737, 14569), (744, 14584), (758, 14626), (774, 14680), (831, 14920), (857, 14995), (892, 15106), (918, 15325), (921, 15337), (952, 15520), (953, 15529), (981, 15601), (997, 15631), (1003, 15652), (1045, 15772), (1062, 15844), (1064, 15862), (1065, 15868),

Gene: Boilgate_18 Start: 12212, Stop: 16429, Start Num: 35

Candidate Starts for Boilgate_18:

(12, 12077), (16, 12101), (Start: 22 @12122 has 64 MA's), (Start: 35 @12212 has 1 MA's), (47, 12323), (86, 12494), (91, 12512), (99, 12536), (103, 12551), (106, 12563), (122, 12632), (124, 12644), (129, 12665), (149, 12749), (162, 12803), (164, 12812), (168, 12833), (176, 12866), (177, 12872), (178, 12875), (182, 12890), (187, 12926), (193, 12950), (194, 12953), (212, 13028), (214, 13040), (235, 13115), (237, 13118), (238, 13121), (250, 13184), (277, 13295), (294, 13352), (310, 13406), (327, 13448), (341, 13496), (343, 13502), (347, 13517), (358, 13550), (367, 13583), (382, 13622), (383, 13625), (395, 13670), (406, 13709), (409, 13718), (413, 13730), (419, 13757), (445, 13850), (450, 13862), (464, 13919), (482, 14015), (510, 14090), (522, 14138), (523, 14144), (528, 14156), (543, 14192), (565, 14234), (641, 14432), (658, 14507), (698, 14624), (711, 14675), (712, 14678), (730, 14738), (731, 14741), (766, 14837), (781, 14915), (782, 14918), (817, 15074), (827, 15107), (829, 15116), (831, 15128), (838, 15152), (869, 15227), (871, 15236), (872, 15239), (879, 15263), (881, 15272), (883, 15275), (888, 15296), (898, 15368), (905, 15410), (909, 15440), (912, 15482), (920, 15554), (923, 15575), (936, 15662), (940, 15677), (952, 15758), (975, 15890), (1015, 16112), (1017, 16118), (1033, 16232), (1045, 16262), (1052, 16280), (1059, 16322), (1065, 16355), (1071, 16418),

Gene: BoostSeason_17 Start: 10144, Stop: 13818, Start Num: 20

Candidate Starts for BoostSeason_17:

(Start: 20 @10144 has 36 MA's), (Start: 33 @10216 has 1 MA's), (83, 10450), (103, 10501), (124, 10594), (143, 10669), (164, 10762), (168, 10783), (174, 10804), (175, 10810), (193, 10900), (203, 10942), (212, 10978), (221, 11011), (223, 11023), (230, 11047), (237, 11068), (243, 11092), (244, 11098), (250, 11134), (252, 11143), (259, 11176), (261, 11188), (269, 11215), (333, 11398), (336, 11410), (338, 11416), (350, 11455), (358, 11479), (395, 11512), (401, 11530), (411, 11539), (439, 11572), (490, 11761), (491, 11767), (498, 11803), (508, 11830), (514, 11848), (521, 11866), (562, 11974), (574, 12007), (587, 12040), (607, 12094), (615, 12127), (620, 12148), (630, 12172), (638, 12202), (642, 12223), (718, 12445), (751, 12538), (777, 12616), (811, 12739), (867, 12892), (940, 13309), (941, 13318), (944, 13348), (955, 13408), (1000, 13516), (1045, 13648), (1065, 13741),

Gene: BruceB_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for BruceB_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385),

(1047, 15403), (1050, 15412),

Gene: Bryler_20 Start: 11095, Stop: 15096, Start Num: 22

Candidate Starts for Bryler_20:

(Start: 22 @11095 has 64 MA's), (37, 11188), (49, 11293), (55, 11320), (61, 11347), (66, 11365), (72, 11383), (77, 11407), (80, 11413), (86, 11440), (87, 11446), (99, 11482), (102, 11491), (107, 11515), (123, 11587), (127, 11605), (128, 11608), (161, 11737), (188, 11854), (213, 11950), (223, 11989), (232, 12019), (246, 12079), (289, 12262), (292, 12268), (293, 12271), (308, 12325), (318, 12355), (336, 12415), (340, 12427), (342, 12433), (346, 12448), (353, 12469), (359, 12487), (403, 12625), (406, 12637), (413, 12658), (442, 12697), (474, 12751), (475, 12757), (507, 12919), (524, 12982), (551, 13063), (558, 13078), (572, 13120), (586, 13171), (591, 13192), (600, 13222), (602, 13228), (608, 13252), (618, 13303), (634, 13363), (647, 13420), (654, 13456), (659, 13474), (670, 13507), (711, 13648), (712, 13651), (737, 13735), (749, 13762), (774, 13846), (831, 14086), (857, 14161), (920, 14494), (940, 14596), (941, 14605), (952, 14677), (981, 14761), (997, 14791), (1005, 14812), (1045, 14929), (1062, 15004), (1067, 15043), (1068, 15055),

Gene: CLED96_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for CLED96_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: CREW_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for CREW_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Cain_20 Start: 11083, Stop: 15084, Start Num: 22

Candidate Starts for Cain_20:

(Start: 22 @11083 has 64 MA's), (37, 11176), (49, 11281), (55, 11308), (61, 11335), (66, 11353), (72, 11371), (77, 11395), (80, 11401), (86, 11428), (87, 11434), (99, 11470), (102, 11479), (107, 11503), (123, 11575), (127, 11593), (128, 11596), (161, 11725), (188, 11842), (213, 11938), (223, 11977), (232, 12007), (246, 12067), (289, 12250), (292, 12256), (293, 12259), (308, 12313), (318, 12343), (336, 12403), (340, 12415), (342, 12421), (346, 12436), (353, 12457), (359, 12475), (403, 12613), (406, 12625), (413, 12646), (442, 12685), (474, 12739), (475, 12745), (507, 12907), (524, 12970), (551, 13051), (558, 13066), (572, 13108), (586, 13159), (591, 13180), (600, 13210), (602, 13216), (608, 13240), (618, 13291), (634, 13351), (647, 13408), (654, 13444), (659, 13462), (670, 13495), (711, 13636), (712, 13639), (737, 13723), (749, 13750), (774, 13834), (831, 14074), (857, 14149), (920, 14482), (940, 14584), (941, 14593), (952, 14665), (981, 14749), (997, 14779), (1005, 14800),

(1045, 14917), (1062, 14992), (1067, 15031), (1068, 15043),

Gene: CallaLilly_21 Start: 12039, Stop: 15872, Start Num: 21

Candidate Starts for CallaLilly_21:

(Start: 21 @12039 has 179 MA's), (Start: 33 @12108 has 1 MA's), (Start: 35 @12129 has 1 MA's), (43, 12195), (78, 12372), (84, 12399), (103, 12471), (106, 12483), (108, 12492), (124, 12564), (143, 12639), (162, 12723), (164, 12732), (168, 12753), (177, 12792), (186, 12828), (193, 12870), (212, 12948), (237, 13038), (252, 13113), (275, 13206), (277, 13215), (280, 13227), (282, 13236), (358, 13473), (370, 13512), (382, 13545), (406, 13632), (414, 13656), (440, 13740), (471, 13824), (475, 13836), (479, 13857), (608, 14013), (625, 14094), (640, 14142), (643, 14160), (647, 14181), (654, 14217), (670, 14268), (690, 14325), (711, 14403), (714, 14412), (737, 14490), (744, 14505), (758, 14547), (774, 14601), (831, 14841), (857, 14916), (892, 15027), (918, 15246), (921, 15258), (952, 15441), (953, 15450), (981, 15522), (997, 15552), (1003, 15573), (1045, 15693), (1062, 15765), (1064, 15783), (1065, 15789),

Gene: Cambiare_17 Start: 12153, Stop: 16196, Start Num: 22

Candidate Starts for Cambiare_17:

(Start: 22 @12153 has 64 MA's), (36, 12246), (41, 12276), (58, 12423), (79, 12507), (Start: 89 @12555 has 2 MA's), (124, 12693), (129, 12714), (143, 12768), (164, 12861), (168, 12882), (174, 12903), (177, 12921), (183, 12945), (186, 12957), (199, 13029), (204, 13044), (212, 13077), (246, 13209), (250, 13233), (255, 13254), (261, 13287), (269, 13314), (280, 13356), (291, 13404), (336, 13542), (337, 13545), (350, 13587), (372, 13656), (373, 13659), (394, 13728), (406, 13770), (432, 13848), (472, 13965), (475, 13974), (478, 13989), (491, 14070), (494, 14079), (509, 14139), (541, 14253), (562, 14307), (571, 14334), (586, 14388), (588, 14397), (600, 14439), (605, 14463), (608, 14469), (613, 14499), (618, 14520), (622, 14538), (635, 14583), (693, 14790), (697, 14805), (709, 14853), (717, 14874), (721, 14889), (728, 14913), (744, 14952), (746, 14955), (749, 14964), (756, 14991), (762, 15006), (778, 15057), (782, 15084), (809, 15189), (831, 15285), (855, 15360), (898, 15504), (922, 15705), (942, 15789), (944, 15816), (950, 15846), (952, 15858), (1023, 16044), (1047, 16122),

Gene: Camri_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Camri_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Capricorn_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Capricorn_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: CaseJules_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for CaseJules_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: CassieYates_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for CassieYates_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Catfish_20 Start: 13330, Stop: 17619, Start Num: 31

Candidate Starts for Catfish_20:

(Start: 31 @13330 has 11 MA's), (39, 13372), (44, 13426), (104, 13678), (109, 13702), (125, 13777), (135, 13819), (137, 13825), (150, 13879), (151, 13882), (156, 13903), (157, 13906), (159, 13915), (163, 13933), (177, 13996), (193, 14074), (200, 14110), (201, 14113), (205, 14125), (212, 14155), (214, 14167), (216, 14173), (217, 14176), (219, 14182), (223, 14200), (224, 14206), (268, 14386), (305, 14536), (311, 14560), (312, 14566), (316, 14581), (332, 14632), (337, 14650), (360, 14725), (362, 14728), (363, 14734), (383, 14794), (388, 14812), (401, 14857), (406, 14878), (420, 14929), (427, 14959), (429, 14965), (438, 15001), (441, 15007), (448, 15022), (474, 15106), (481, 15166), (482, 15169), (483, 15172), (484, 15178), (486, 15184), (487, 15190), (489, 15196), (497, 15232), (502, 15259), (519, 15316), (532, 15376), (534, 15388), (546, 15427), (550, 15436), (557, 15460), (583, 15541), (617, 15682), (666, 15886), (677, 15934), (697, 16024), (707, 16069), (714, 16099), (719, 16120), (731, 16156), (740, 16180), (758, 16207), (774, 16261), (782, 16300), (831, 16501), (911, 16819), (928, 16951), (963, 17146), (980, 17227), (986, 17248), (991, 17272), (1012, 17362), (1017, 17389), (1025, 17464), (1034, 17500), (1039, 17512), (1051, 17545), (1061, 17614),

Gene: Cedasite_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Cedasite_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Chance64_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Chance64_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Chancellor_22 Start: 13324, Stop: 17499, Start Num: 22

Candidate Starts for Chancellor_22:

(15, 13288), (Start: 22 @13324 has 64 MA's), (47, 13522), (106, 13762), (108, 13771), (129, 13864), (164, 14011), (168, 14032), (177, 14071), (178, 14074), (193, 14149), (212, 14227), (235, 14314), (237, 14317), (244, 14347), (249, 14380), (255, 14404), (276, 14488), (283, 14518), (291, 14545), (328, 14653), (334, 14674), (337, 14686), (341, 14698), (358, 14752), (406, 14911), (413, 14932), (440, 15040), (476, 15160), (572, 15520), (586, 15571), (588, 15580), (601, 15625), (605, 15646), (664, 15865), (669, 15877), (672, 15886), (698, 15958), (711, 16009), (712, 16012), (719, 16039), (758, 16138), (765, 16156), (782, 16231), (829, 16420), (831, 16432), (857, 16507), (898, 16693), (914, 16813), (926, 16921), (952, 17071), (989, 17191), (997, 17200), (998, 17203), (1004, 17224), (1033, 17302), (1044, 17329), (1065, 17425), (1071, 17488),

Gene: Chavito_21 Start: 11138, Stop: 15292, Start Num: 22

Candidate Starts for Chavito_21:

(15, 11090), (Start: 22 @11138 has 64 MA's), (37, 11231), (61, 11390), (70, 11417), (93, 11507), (94, 11510), (115, 11597), (142, 11705), (143, 11708), (158, 11774), (181, 11876), (188, 11918), (192, 11933), (195, 11942), (202, 11969), (211, 11999), (218, 12032), (229, 12074), (246, 12143), (289, 12329), (292, 12335), (303, 12371), (305, 12380), (308, 12392), (313, 12404), (318, 12422), (336, 12482), (340, 12494), (342, 12500), (346, 12515), (352, 12533), (353, 12536), (359, 12554), (364, 12569), (376, 12608), (395, 12665), (398, 12674), (406, 12704), (413, 12725), (420, 12755), (445, 12824), (456, 12845), (462, 12872), (471, 12902), (475, 12914), (493, 13016), (513, 13094), (524, 13139), (531, 13163), (550, 13217), (551, 13220), (558, 13235), (559, 13238), (572, 13277), (578, 13304), (586, 13328), (587, 13334), (620, 13469), (622, 13478), (633, 13514), (634, 13520), (640, 13538), (645, 13565), (647, 13577), (659, 13631), (670, 13664), (691, 13724), (711, 13805), (712, 13808), (737, 13892), (744, 13907), (782, 14042), (799, 14108), (831, 14243), (905, 14516), (913, 14591), (952, 14852), (953, 14861), (972, 14924), (1022, 15047), (1045, 15119), (1053, 15140), (1062, 15191), (1064, 15209), (1065, 15215), (1069, 15254),

Gene: CheetoDust_21 Start: 12093, Stop: 15926, Start Num: 21

Candidate Starts for CheetoDust_21:

(Start: 21 @12093 has 179 MA's), (Start: 33 @12162 has 1 MA's), (43, 12249), (78, 12426), (84, 12453), (103, 12525), (106, 12537), (108, 12546), (124, 12618), (143, 12693), (162, 12777), (164, 12786), (168, 12807), (177, 12846), (193, 12924), (212, 13002), (218, 13026), (237, 13092), (252, 13167), (275, 13260), (277, 13269), (280, 13281), (282, 13290), (358, 13527), (370, 13566), (382, 13599), (406, 13686), (414, 13710), (440, 13794), (471, 13878), (475, 13890), (479, 13911), (608, 14067), (625, 14148), (633, 14172), (640, 14196), (643, 14214), (647, 14235), (654, 14271), (670, 14322), (690, 14379), (711, 14457), (714, 14466), (737, 14544), (744, 14559), (758, 14601), (774, 14655), (831, 14895), (857, 14970), (892, 15081), (918, 15300), (921, 15312), (952, 15495), (953, 15504), (981, 15576), (997, 15606), (1003, 15627), (1045, 15747), (1062, 15819), (1064, 15837), (1065, 15843),

Gene: Cheetobro_22 Start: 13324, Stop: 17496, Start Num: 22

Candidate Starts for Cheetobro_22:

(15, 13288), (Start: 22 @13324 has 64 MA's), (47, 13522), (106, 13762), (108, 13771), (129, 13864), (164, 14011), (168, 14032), (177, 14071), (178, 14074), (193, 14149), (212, 14227), (235, 14314), (237, 14317), (244, 14347), (249, 14380), (255, 14404), (276, 14488), (283, 14518), (291, 14545), (328, 14653), (334, 14674), (337, 14686), (341, 14698), (358, 14752), (406, 14911), (413, 14932), (440, 15040), (476, 15160), (572, 15520), (586, 15571), (588, 15580), (601, 15625), (605, 15646), (664, 15865), (669, 15877), (672, 15886), (698, 15958), (711, 16009), (712, 16012), (719, 16039), (758, 16138), (765, 16156), (782, 16231), (829, 16420), (831, 16432), (857, 16507), (898, 16693), (914, 16813), (926, 16921), (952, 17068), (989, 17188), (997, 17197), (998, 17200), (1033, 17299), (1044, 17326), (1065, 17422), (1071, 17485),

Gene: Cherrybomb426_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Cherrybomb426_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Chris_20 Start: 11071, Stop: 15138, Start Num: 22

Candidate Starts for Chris_20:

(Start: 22 @11071 has 64 MA's), (37, 11164), (55, 11296), (61, 11323), (64, 11332), (65, 11338), (91, 11434), (123, 11563), (127, 11581), (128, 11584), (134, 11611), (143, 11641), (161, 11722), (167, 11752), (174, 11776), (188, 11839), (192, 11854), (217, 11950), (218, 11953), (229, 11995), (246, 12064), (289, 12247), (293, 12256), (305, 12298), (308, 12310), (336, 12400), (340, 12412), (342, 12418), (346, 12433), (352, 12451), (353, 12454), (363, 12484), (364, 12487), (403, 12610), (406, 12622), (408, 12628), (413, 12643), (415, 12649), (472, 12733), (482, 12802), (524, 12967), (539, 13015), (544, 13030), (572, 13105), (586, 13156), (591, 13177), (602, 13213), (608, 13237), (613, 13267), (643, 13384), (646, 13396), (647, 13405), (659, 13459), (670, 13492), (690, 13549), (711, 13627), (712, 13630), (737, 13714), (749, 13741), (764, 13789), (774, 13825), (782, 13864), (809, 13969), (831, 14065), (847, 14107), (857, 14140), (918, 14482), (952, 14680), (983, 14794), (1045, 14968), (1062, 15052), (1065, 15073),

Gene: Clipper_21 Start: 12093, Stop: 15926, Start Num: 21

Candidate Starts for Clipper_21:

(Start: 21 @12093 has 179 MA's), (Start: 33 @12162 has 1 MA's), (43, 12249), (78, 12426), (84, 12453), (106, 12537), (108, 12546), (124, 12618), (143, 12693), (162, 12777), (164, 12786), (168, 12807), (177, 12846), (193, 12924), (212, 13002), (237, 13092), (252, 13167), (275, 13260), (277, 13269), (280, 13281), (282, 13290), (358, 13527), (370, 13566), (382, 13599), (406, 13686), (414, 13710), (440, 13794), (471, 13878), (475, 13890), (479, 13911), (608, 14067), (625, 14148), (633, 14172), (640, 14196), (643, 14214), (647, 14235), (654, 14271), (670, 14322), (690, 14379), (711, 14457), (714, 14466), (737, 14544), (744, 14559), (758, 14601), (774, 14655), (831, 14895), (857, 14970), (892, 15081), (918, 15300), (921, 15312), (952, 15495), (953, 15504), (981, 15576), (997, 15606), (1003, 15627), (1045, 15747), (1062, 15819), (1064, 15837), (1065, 15843),

Gene: Cloudyecho_16 Start: 11718, Stop: 15656, Start Num: 22

Candidate Starts for Cloudyecho_16:

(Start: 22 @11718 has 64 MA's), (36, 11811), (37, 11814), (47, 11919), (49, 11922), (52, 11937), (64, 11985), (72, 12012), (80, 12042), (86, 12069), (117, 12189), (121, 12204), (123, 12216), (127, 12234), (139, 12279), (159, 12357), (161, 12366), (181, 12453), (188, 12495), (192, 12510), (200, 12540), (218, 12609), (222, 12621), (246, 12720), (274, 12834), (281, 12861), (289, 12903), (300, 12933), (305, 12954), (318, 12996), (340, 13068), (342, 13074), (346, 13089), (352, 13107), (353, 13110), (372, 13170), (387, 13215), (395, 13239), (401, 13257), (406, 13278), (414, 13302), (416, 13314), (417, 13317), (437, 13374), (462, 13446), (475, 13488), (493, 13590), (506, 13647), (541, 13767), (549, 13788), (587, 13908), (602, 13959), (618, 14034), (630, 14076), (645, 14139), (650, 14172), (694, 14295), (716, 14379), (719, 14394), (726, 14418), (739, 14460), (744, 14469), (759, 14514), (763, 14529), (781, 14610), (784, 14619), (807, 14712), (816, 14766), (817, 14769), (828, 14802), (942, 15270), (944, 15297), (949, 15324), (952, 15339), (953, 15348), (1027, 15564), (1031, 15582), (1046, 15621),

Gene: Coleslaw_16 Start: 11455, Stop: 15468, Start Num: 21

Candidate Starts for Coleslaw_16:

(Start: 21 @11455 has 179 MA's), (47, 11656), (75, 11770), (84, 11812), (90, 11842), (124, 11977), (126, 11989), (129, 11998), (174, 12187), (177, 12205), (178, 12208), (183, 12229), (186, 12241), (199, 12313), (212, 12361), (246, 12493), (250, 12517), (269, 12598), (304, 12721), (333, 12805), (344, 12841), (358, 12886), (359, 12892), (393, 13000), (401, 13024), (406, 13045), (478, 13264), (509, 13414), (532, 13501), (571, 13609), (608, 13744), (634, 13855), (640, 13873), (646, 13903), (707, 14125), (717, 14149), (721, 14164), (726, 14185), (737, 14212), (749, 14239), (769, 14299), (790, 14389), (795, 14422), (812, 14485), (823, 14542), (831, 14575), (833, 14584), (942, 15088), (944, 15115), (950, 15145), (952, 15157), (953, 15166), (981, 15235), (1023, 15316), (1040, 15376), (1047, 15394), (1050, 15403),

Gene: Collard_19 Start: 12197, Stop: 16303, Start Num: 20

Candidate Starts for Collard_19:

(Start: 20 @12197 has 36 MA's), (Start: 35 @12290 has 1 MA's), (45, 12368), (46, 12392), (58, 12452), (79, 12536), (82, 12548), (108, 12650), (122, 12710), (124, 12722), (129, 12743), (143, 12797), (154, 12845), (164, 12890), (168, 12911), (193, 13028), (212, 13106), (218, 13130), (237, 13196), (252, 13271), (275, 13364), (282, 13394), (338, 13568), (341, 13577), (350, 13607), (358, 13631), (364, 13652), (385, 13712), (406, 13790), (409, 13799), (434, 13877), (460, 13943), (472, 13985), (475, 13994), (488, 14078), (494, 14099), (500, 14132), (518, 14198), (524, 14219), (541, 14273), (544, 14282), (551, 14300), (559, 14318), (562, 14327), (572, 14357), (581, 14393), (597, 14447), (605, 14483), (608, 14489), (611, 14507), (638, 14612), (650, 14678), (711, 14873), (719, 14903), (730, 14936), (749, 14987), (753, 15008), (760, 15023), (761, 15029), (783, 15113), (797, 15161), (806, 15200), (819, 15260), (829, 15293), (834, 15314), (842, 15338), (853, 15368), (878, 15434), (895, 15506), (940, 15821), (941, 15830), (942, 15833), (948, 15875), (952, 15902), (959, 15932), (981, 15983), (989, 16001), (1023, 16067), (1036, 16115), (1045, 16139), (1049, 16151), (1066, 16232), (1068, 16256), (1073, 16295),

Gene: Cornie_15 Start: 9733, Stop: 13863, Start Num: 20

Candidate Starts for Cornie_15:

(Start: 20 @9733 has 36 MA's), (32, 9808), (48, 9964), (79, 10093), (114, 10234), (123, 10273), (124, 10276), (156, 10411), (157, 10414), (162, 10435), (180, 10516), (185, 10537), (194, 10591), (209, 10654), (223, 10717), (234, 10756), (245, 10801), (248, 10822), (260, 10885), (263, 10891), (275, 10936), (287, 10999), (288, 11005), (303, 11053), (306, 11065), (311, 11086), (326, 11140), (330, 11152), (337, 11179), (338, 11182), (350, 11221), (354, 11236), (362, 11257), (377, 11308), (386, 11335), (398, 11380), (404, 11404), (410, 11425), (413, 11434), (419, 11461), (424, 11476), (428, 11497), (429, 11500), (433, 11518), (436, 11527), (452, 11572), (454, 11581), (457, 11593), (480, 11707), (489, 11752), (493, 11767), (501, 11812), (527, 11911), (535, 11938), (548, 11977), (553, 11992), (555, 12001), (596, 12148), (608, 12193), (609, 12196), (614, 12226), (616, 12238), (621, 12259), (628, 12280), (636, 12310), (637, 12313), (668, 12451), (670, 12460), (689, 12523), (701,

12583), (706, 12592), (719, 12637), (720, 12640), (723, 12649), (748, 12727), (754, 12754), (767, 12787), (787, 12880), (791, 12889), (796, 12919), (806, 12973), (815, 13018), (848, 13189), (866, 13237), (877, 13300), (882, 13315), (884, 13324), (899, 13432), (902, 13453), (905, 13468), (906, 13477), (916, 13579), (929, 13672), (931, 13690), (946, 13777), (960, 13858),

Gene: Crespo_16 Start: 11465, Stop: 15478, Start Num: 21

Candidate Starts for Crespo_16:

(Start: 21 @11465 has 179 MA's), (47, 11666), (75, 11780), (84, 11822), (90, 11852), (124, 11987), (126, 11999), (129, 12008), (174, 12197), (177, 12215), (178, 12218), (183, 12239), (186, 12251), (199, 12323), (212, 12371), (246, 12503), (250, 12527), (269, 12608), (304, 12731), (333, 12815), (344, 12851), (358, 12896), (359, 12902), (393, 13010), (401, 13034), (406, 13055), (478, 13274), (509, 13424), (532, 13511), (571, 13619), (608, 13754), (634, 13865), (640, 13883), (646, 13913), (707, 14135), (717, 14159), (721, 14174), (726, 14195), (737, 14222), (749, 14249), (769, 14309), (790, 14399), (795, 14432), (812, 14495), (823, 14552), (831, 14585), (833, 14594), (942, 15098), (944, 15125), (950, 15155), (952, 15167), (953, 15176), (981, 15245), (1023, 15326), (1040, 15386), (1047, 15404), (1050, 15413),

Gene: CrimD_21 Start: 12051, Stop: 15887, Start Num: 21

Candidate Starts for CrimD_21:

(Start: 21 @12051 has 179 MA's), (Start: 33 @12120 has 1 MA's), (43, 12207), (78, 12387), (84, 12414), (106, 12498), (108, 12507), (122, 12567), (124, 12579), (143, 12654), (152, 12696), (162, 12738), (164, 12747), (168, 12768), (177, 12807), (193, 12885), (212, 12963), (252, 13128), (275, 13221), (277, 13230), (280, 13242), (282, 13251), (358, 13488), (365, 13512), (370, 13527), (382, 13560), (406, 13647), (414, 13671), (440, 13755), (471, 13839), (475, 13851), (479, 13872), (493, 13953), (603, 14010), (608, 14028), (625, 14109), (640, 14157), (643, 14175), (646, 14187), (647, 14196), (654, 14232), (670, 14283), (690, 14340), (711, 14418), (737, 14505), (744, 14520), (758, 14562), (774, 14616), (831, 14856), (857, 14931), (892, 15042), (918, 15261), (921, 15273), (940, 15375), (952, 15456), (953, 15465), (981, 15537), (997, 15567), (1003, 15588), (1045, 15708), (1062, 15780), (1064, 15798), (1065, 15804),

Gene: Curiosium_22 Start: 11510, Stop: 15637, Start Num: 22

Candidate Starts for Curiosium_22:

(Start: 22 @11510 has 64 MA's), (28, 11537), (37, 11603), (55, 11735), (60, 11759), (70, 11789), (75, 11810), (77, 11822), (93, 11879), (94, 11882), (115, 11969), (123, 12002), (127, 12020), (128, 12023), (139, 12065), (151, 12110), (181, 12239), (188, 12281), (192, 12296), (195, 12305), (202, 12332), (218, 12395), (226, 12425), (246, 12506), (256, 12557), (280, 12644), (289, 12689), (303, 12731), (304, 12734), (305, 12740), (318, 12782), (336, 12842), (340, 12854), (342, 12860), (346, 12875), (352, 12893), (353, 12896), (359, 12914), (364, 12929), (384, 12989), (390, 13010), (395, 13025), (406, 13064), (412, 13082), (413, 13085), (471, 13262), (475, 13274), (477, 13283), (482, 13334), (493, 13376), (524, 13499), (531, 13523), (559, 13598), (578, 13664), (602, 13745), (613, 13799), (618, 13820), (622, 13838), (634, 13880), (640, 13898), (645, 13925), (647, 13937), (654, 13973), (659, 13991), (674, 14036), (711, 14165), (712, 14168), (737, 14252), (744, 14267), (757, 14306), (758, 14309), (774, 14363), (782, 14402), (799, 14468), (831, 14603), (873, 14729), (923, 15044), (940, 15125), (941, 15134), (952, 15206), (1045, 15458), (1062, 15530), (1065, 15554), (1068, 15581),

Gene: DMoney_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for DMoney_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308),

(790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: DNAIII_0016 Start: 11473, Stop: 15486, Start Num: 21

Candidate Starts for DNAIII_0016:

(Start: 21 @11473 has 179 MA's), (47, 11674), (75, 11788), (84, 11830), (90, 11860), (124, 11995), (126, 12007), (129, 12016), (174, 12205), (177, 12223), (178, 12226), (183, 12247), (186, 12259), (199, 12331), (212, 12379), (246, 12511), (250, 12535), (269, 12616), (304, 12739), (333, 12823), (344, 12859), (358, 12904), (359, 12910), (393, 13018), (401, 13042), (406, 13063), (478, 13282), (509, 13432), (532, 13519), (571, 13627), (608, 13762), (634, 13873), (640, 13891), (646, 13921), (707, 14143), (717, 14167), (721, 14182), (726, 14203), (737, 14230), (749, 14257), (769, 14317), (790, 14407), (795, 14440), (812, 14503), (823, 14560), (831, 14593), (833, 14602), (942, 15106), (944, 15133), (950, 15163), (952, 15175), (953, 15184), (981, 15253), (1023, 15334), (1040, 15394), (1047, 15412), (1050, 15421),

Gene: Dadosky_19 Start: 12113, Stop: 16225, Start Num: 20

Candidate Starts for Dadosky_19:

(Start: 20 @12113 has 36 MA's), (Start: 35 @12206 has 1 MA's), (45, 12284), (46, 12308), (58, 12368), (79, 12452), (108, 12566), (122, 12626), (124, 12638), (129, 12659), (143, 12713), (154, 12761), (164, 12806), (168, 12827), (193, 12944), (212, 13022), (218, 13046), (229, 13088), (237, 13112), (252, 13187), (275, 13280), (282, 13310), (338, 13484), (350, 13523), (358, 13547), (364, 13568), (385, 13628), (406, 13706), (434, 13793), (460, 13859), (472, 13901), (475, 13910), (488, 13994), (494, 14015), (500, 14048), (518, 14114), (524, 14135), (541, 14189), (544, 14198), (551, 14216), (562, 14243), (572, 14273), (581, 14309), (605, 14399), (608, 14405), (611, 14423), (638, 14528), (650, 14594), (711, 14789), (719, 14819), (730, 14852), (749, 14903), (753, 14924), (760, 14939), (761, 14945), (783, 15029), (797, 15077), (806, 15116), (819, 15176), (829, 15209), (834, 15230), (842, 15254), (853, 15284), (878, 15350), (895, 15422), (940, 15737), (941, 15746), (942, 15749), (944, 15776), (948, 15791), (950, 15806), (952, 15818), (959, 15848), (981, 15902), (989, 15920), (1023, 15989), (1036, 16037), (1045, 16061), (1049, 16073), (1053, 16082), (1066, 16154), (1068, 16178), (1073, 16217),

Gene: Dalmuri_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Dalmuri_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: DanSyl44_22 Start: 13327, Stop: 17502, Start Num: 22

Candidate Starts for DanSyl44_22:

(15, 13291), (Start: 22 @13327 has 64 MA's), (47, 13525), (106, 13765), (108, 13774), (129, 13867), (164, 14014), (168, 14035), (177, 14074), (178, 14077), (193, 14152), (212, 14230), (235, 14317), (237, 14320), (244, 14350), (249, 14383), (255, 14407), (276, 14491), (283, 14521), (291, 14548), (328, 14656), (334, 14677), (337, 14689), (341, 14701), (358, 14755), (406, 14914), (413, 14935), (440, 15043), (476, 15163), (572, 15523), (586, 15574), (588, 15583), (601, 15628), (605, 15649), (664, 15868), (669, 15880), (672, 15889), (692, 15934), (698, 15961), (711, 16012), (712, 16015),

(719, 16042), (731, 16078), (758, 16141), (765, 16159), (782, 16234), (829, 16423), (831, 16435), (857, 16510), (898, 16696), (914, 16816), (926, 16924), (952, 17074), (989, 17194), (997, 17203), (998, 17206), (1033, 17305), (1044, 17332), (1065, 17428), (1071, 17491),

Gene: Dardanus_22 Start: 12248, Stop: 15838, Start Num: 31

Candidate Starts for Dardanus_22:

(Start: 31 @12248 has 11 MA's), (39, 12290), (44, 12356), (74, 12485), (75, 12491), (112, 12623), (133, 12707), (154, 12758), (172, 12812), (192, 12881), (197, 12902), (211, 12950), (215, 12971), (236, 13037), (245, 13070), (251, 13100), (254, 13115), (286, 13238), (290, 13256), (299, 13277), (345, 13403), (349, 13415), (366, 13469), (369, 13478), (394, 13541), (398, 13553), (426, 13619), (428, 13631), (459, 13727), (468, 13760), (473, 13775), (482, 13832), (484, 13841), (499, 13901), (504, 13919), (522, 13979), (536, 14042), (545, 14066), (547, 14072), (554, 14090), (557, 14102), (560, 14108), (573, 14150), (583, 14183), (653, 14348), (671, 14426), (684, 14495), (690, 14513), (707, 14579), (709, 14594), (714, 14609), (719, 14630), (731, 14666), (735, 14675), (764, 14735), (829, 14999), (831, 15011), (886, 15158), (908, 15290), (910, 15299), (931, 15464), (936, 15488), (962, 15614), (965, 15632), (966, 15635), (974, 15662), (987, 15731), (997, 15764), (1013, 15833),

Gene: Darionha_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Darionha_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: DartGoblin_21 Start: 12003, Stop: 15842, Start Num: 21

Candidate Starts for DartGoblin_21:

(Start: 21 @12003 has 179 MA's), (Start: 33 @12072 has 1 MA's), (43, 12159), (78, 12339), (84, 12366), (106, 12450), (108, 12459), (122, 12519), (124, 12531), (143, 12606), (152, 12648), (162, 12690), (164, 12699), (168, 12720), (177, 12759), (178, 12762), (193, 12837), (212, 12915), (252, 13080), (275, 13173), (280, 13194), (282, 13203), (358, 13440), (365, 13464), (370, 13479), (382, 13512), (406, 13599), (434, 13686), (440, 13707), (471, 13791), (475, 13803), (479, 13824), (608, 13980), (625, 14061), (643, 14127), (647, 14148), (654, 14184), (670, 14235), (680, 14253), (690, 14292), (711, 14370), (714, 14379), (737, 14457), (744, 14472), (758, 14514), (774, 14568), (831, 14808), (857, 14883), (892, 14994), (895, 15015), (898, 15036), (914, 15156), (940, 15330), (952, 15411), (953, 15420), (981, 15492), (997, 15522), (1003, 15543), (1045, 15663), (1062, 15735), (1064, 15753), (1065, 15759),

Gene: DarthP_20 Start: 12196, Stop: 16335, Start Num: 21

Candidate Starts for DarthP_20:

(15, 12151), (Start: 21 @12196 has 179 MA's), (Start: 33 @12265 has 1 MA's), (43, 12352), (54, 12427), (78, 12529), (79, 12535), (84, 12556), (91, 12589), (95, 12601), (106, 12640), (108, 12649), (122, 12709), (124, 12721), (129, 12742), (143, 12796), (149, 12826), (164, 12889), (168, 12910), (177, 12949), (193, 13027), (212, 13105), (218, 13129), (259, 13303), (269, 13342), (272, 13351), (273, 13354), (280, 13384), (320, 13507), (325, 13522), (336, 13561), (350, 13606), (358, 13630), (391, 13732), (393, 13744), (395, 13750), (406, 13789), (448, 13915), (453, 13930), (461, 13966), (464, 13978), (477, 14023), (494, 14119), (559, 14338), (572, 14377), (576, 14398), (602, 14485), (608, 14509), (612, 14536), (613, 14539), (620, 14569), (634, 14620), (643, 14656), (670, 14764), (711, 14899), (712, 14902), (732, 14968), (735, 14974), (749, 15013), (773, 15085), (775, 15091),

(780, 15112), (801, 15196), (808, 15226), (813, 15247), (814, 15259), (831, 15340), (841, 15373), (846, 15382), (849, 15388), (863, 15430), (869, 15448), (875, 15481), (877, 15487), (893, 15532), (918, 15742), (940, 15841), (941, 15850), (942, 15853), (952, 15922), (1003, 16057), (1027, 16126), (1045, 16174), (1065, 16270), (1069, 16309),

Gene: Dartin_21 Start: 11128, Stop: 15282, Start Num: 22

Candidate Starts for Dartin_21:

(15, 11086), (Start: 22 @11128 has 64 MA's), (37, 11221), (61, 11380), (70, 11407), (93, 11497), (94, 11500), (115, 11587), (142, 11695), (158, 11764), (162, 11782), (181, 11866), (188, 11908), (192, 11923), (195, 11932), (202, 11959), (218, 12022), (229, 12064), (246, 12133), (259, 12196), (260, 12205), (289, 12319), (292, 12325), (303, 12361), (305, 12370), (308, 12382), (313, 12394), (318, 12412), (336, 12472), (340, 12484), (342, 12490), (346, 12505), (352, 12523), (353, 12526), (359, 12544), (364, 12559), (376, 12598), (395, 12655), (398, 12664), (406, 12694), (413, 12715), (420, 12745), (433, 12778), (462, 12862), (471, 12892), (475, 12904), (493, 13006), (513, 13084), (524, 13129), (531, 13153), (550, 13207), (551, 13210), (558, 13225), (572, 13267), (578, 13294), (581, 13303), (586, 13318), (587, 13324), (588, 13327), (622, 13468), (633, 13504), (634, 13510), (640, 13528), (645, 13555), (647, 13567), (659, 13621), (670, 13654), (691, 13714), (711, 13795), (712, 13798), (737, 13882), (744, 13897), (782, 14032), (799, 14098), (831, 14233), (914, 14584), (952, 14839), (953, 14848), (972, 14914), (1045, 15109), (1053, 15130), (1062, 15181), (1064, 15199), (1065, 15205), (1069, 15244),

Gene: Deby_21 Start: 12050, Stop: 15883, Start Num: 21

Candidate Starts for Deby_21:

(Start: 21 @12050 has 179 MA's), (Start: 33 @12119 has 1 MA's), (43, 12206), (78, 12383), (84, 12410), (106, 12494), (108, 12503), (124, 12575), (143, 12650), (162, 12734), (164, 12743), (168, 12764), (177, 12803), (193, 12881), (212, 12959), (237, 13049), (252, 13124), (275, 13217), (280, 13238), (282, 13247), (358, 13484), (370, 13523), (382, 13556), (406, 13643), (414, 13667), (440, 13751), (471, 13835), (475, 13847), (479, 13868), (608, 14024), (625, 14105), (640, 14153), (643, 14171), (647, 14192), (654, 14228), (670, 14279), (690, 14336), (711, 14414), (714, 14423), (737, 14501), (744, 14516), (758, 14558), (774, 14612), (831, 14852), (857, 14927), (892, 15038), (918, 15257), (921, 15269), (952, 15452), (953, 15461), (997, 15563), (1003, 15584), (1045, 15704), (1062, 15776), (1064, 15794), (1065, 15800),

Gene: Devera_21 Start: 12075, Stop: 15929, Start Num: 21

Candidate Starts for Devera_21:

(Start: 21 @12075 has 179 MA's), (Start: 33 @12144 has 1 MA's), (43, 12231), (78, 12411), (84, 12438), (106, 12522), (108, 12531), (122, 12591), (124, 12603), (143, 12678), (152, 12720), (162, 12762), (164, 12771), (168, 12792), (177, 12831), (193, 12909), (203, 12951), (212, 12987), (252, 13152), (275, 13245), (280, 13266), (282, 13275), (365, 13557), (370, 13572), (382, 13605), (406, 13692), (440, 13800), (471, 13884), (475, 13896), (479, 13917), (608, 14073), (625, 14154), (640, 14202), (643, 14220), (647, 14241), (654, 14277), (670, 14328), (690, 14385), (711, 14463), (714, 14472), (737, 14550), (744, 14565), (758, 14607), (774, 14661), (802, 14778), (831, 14901), (857, 14976), (898, 15129), (918, 15306), (940, 15420), (952, 15501), (953, 15510), (981, 15582), (997, 15612), (1003, 15633), (1045, 15750), (1062, 15822), (1065, 15846),

Gene: DingDing_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for DingDing_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308),

(790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: DinoDaryn_22 Start: 12409, Stop: 15867, Start Num: 31

Candidate Starts for DinoDaryn_22:

(Start: 31 @12409 has 11 MA's), (39, 12451), (42, 12484), (61, 12589), (62, 12592), (157, 12877), (170, 12928), (221, 13084), (223, 13096), (227, 13105), (245, 13171), (266, 13252), (315, 13381), (322, 13390), (331, 13408), (335, 13420), (349, 13468), (355, 13483), (371, 13531), (407, 13618), (415, 13642), (426, 13681), (431, 13705), (443, 13741), (447, 13750), (451, 13759), (461, 13792), (463, 13801), (479, 13858), (489, 13885), (496, 13915), (530, 13948), (536, 13984), (545, 14008), (550, 14020), (557, 14044), (585, 14137), (592, 14164), (602, 14197), (606, 14218), (624, 14260), (627, 14272), (647, 14335), (653, 14368), (655, 14377), (660, 14392), (663, 14410), (683, 14488), (691, 14515), (714, 14614), (718, 14632), (719, 14635), (730, 14668), (733, 14677), (745, 14713), (758, 14761), (799, 14920), (831, 15055), (865, 15130), (892, 15229), (908, 15325), (910, 15334), (911, 15361), (927, 15466), (928, 15472), (931, 15487), (936, 15511), (961, 15628), (963, 15640), (967, 15667), (979, 15712), (987, 15760), (995, 15787), (997, 15793), (1010, 15847), (1013, 15862),

Gene: DismalFunk_17 Start: 10116, Stop: 13784, Start Num: 20

Candidate Starts for DismalFunk_17:

(Start: 20 @10116 has 36 MA's), (Start: 33 @10188 has 1 MA's), (83, 10422), (103, 10473), (124, 10566), (129, 10587), (143, 10641), (164, 10734), (168, 10755), (174, 10776), (175, 10782), (193, 10872), (203, 10914), (212, 10950), (221, 10983), (223, 10995), (230, 11019), (237, 11040), (243, 11064), (244, 11070), (250, 11106), (252, 11115), (259, 11148), (261, 11160), (269, 11187), (333, 11370), (336, 11382), (338, 11388), (344, 11406), (350, 11427), (358, 11451), (365, 11475), (395, 11484), (400, 11499), (411, 11511), (439, 11544), (460, 11592), (490, 11733), (491, 11739), (498, 11775), (508, 11802), (514, 11820), (562, 11946), (587, 12012), (607, 12066), (615, 12099), (620, 12120), (630, 12144), (638, 12174), (642, 12195), (718, 12417), (751, 12510), (777, 12588), (811, 12711), (843, 12816), (867, 12864), (933, 13251), (940, 13281), (941, 13290), (944, 13320), (1000, 13485), (1045, 13614), (1065, 13707),

Gene: DismalStressor_17 Start: 10116, Stop: 13784, Start Num: 20

Candidate Starts for DismalStressor_17:

(Start: 20 @10116 has 36 MA's), (Start: 33 @10188 has 1 MA's), (83, 10422), (103, 10473), (124, 10566), (129, 10587), (143, 10641), (164, 10734), (168, 10755), (174, 10776), (175, 10782), (193, 10872), (203, 10914), (212, 10950), (221, 10983), (223, 10995), (230, 11019), (237, 11040), (243, 11064), (244, 11070), (250, 11106), (252, 11115), (259, 11148), (261, 11160), (269, 11187), (333, 11370), (336, 11382), (338, 11388), (344, 11406), (350, 11427), (358, 11451), (365, 11475), (395, 11484), (400, 11499), (411, 11511), (439, 11544), (460, 11592), (490, 11733), (491, 11739), (498, 11775), (508, 11802), (514, 11820), (562, 11946), (587, 12012), (607, 12066), (615, 12099), (620, 12120), (630, 12144), (638, 12174), (642, 12195), (718, 12417), (751, 12510), (777, 12588), (811, 12711), (843, 12816), (867, 12864), (933, 13251), (940, 13281), (941, 13290), (944, 13320), (1000, 13485), (1045, 13614), (1065, 13707),

Gene: Dole_21 Start: 12077, Stop: 15931, Start Num: 21

Candidate Starts for Dole_21:

(Start: 21 @12077 has 179 MA's), (Start: 33 @12146 has 1 MA's), (43, 12233), (78, 12413), (84, 12440), (106, 12524), (108, 12533), (122, 12593), (124, 12605), (143, 12680), (152, 12722), (162, 12764), (164, 12773), (168, 12794), (177, 12833), (193, 12911), (203, 12953), (212, 12989), (252, 13154), (275, 13247), (280, 13268), (282, 13277), (365, 13559), (370, 13574), (382, 13607), (406, 13694), (440, 13802), (471, 13886), (475, 13898), (479, 13919), (608, 14075), (625, 14156), (640, 14204), (643, 14222), (647, 14243), (654, 14279), (670, 14330), (690, 14387), (711, 14465), (714, 14474), (737, 14552), (744, 14567), (758, 14609), (774, 14663), (802, 14780), (831, 14903), (857,

14978), (898, 15131), (918, 15308), (940, 15422), (952, 15503), (953, 15512), (981, 15584), (997, 15614), (1003, 15635), (1045, 15752), (1062, 15824), (1065, 15848),

Gene: DoubleChamp_19 Start: 12197, Stop: 16303, Start Num: 20

Candidate Starts for DoubleChamp_19:

(Start: 20 @12197 has 36 MA's), (Start: 35 @12290 has 1 MA's), (45, 12368), (46, 12392), (58, 12452), (79, 12536), (82, 12548), (108, 12650), (122, 12710), (124, 12722), (129, 12743), (143, 12797), (154, 12845), (164, 12890), (168, 12911), (193, 13028), (212, 13106), (218, 13130), (237, 13196), (252, 13271), (275, 13364), (282, 13394), (338, 13568), (341, 13577), (350, 13607), (358, 13631), (364, 13652), (385, 13712), (406, 13790), (409, 13799), (434, 13877), (460, 13943), (472, 13985), (475, 13994), (488, 14078), (494, 14099), (500, 14132), (518, 14198), (524, 14219), (541, 14273), (544, 14282), (551, 14300), (559, 14318), (562, 14327), (572, 14357), (581, 14393), (597, 14447), (605, 14483), (608, 14489), (611, 14507), (638, 14612), (650, 14678), (711, 14873), (719, 14903), (730, 14936), (749, 14987), (753, 15008), (760, 15023), (761, 15029), (783, 15113), (797, 15161), (806, 15200), (819, 15260), (829, 15293), (834, 15314), (842, 15338), (853, 15368), (878, 15434), (895, 15506), (940, 15821), (941, 15830), (942, 15833), (948, 15875), (952, 15902), (959, 15932), (981, 15983), (989, 16001), (1023, 16067), (1036, 16115), (1045, 16139), (1049, 16151), (1066, 16232), (1068, 16256), (1073, 16295),

Gene: Doughnut_17 Start: 10138, Stop: 13812, Start Num: 20

Candidate Starts for Doughnut_17:

(Start: 20 @10138 has 36 MA's), (Start: 33 @10210 has 1 MA's), (83, 10444), (103, 10495), (124, 10588), (143, 10663), (164, 10756), (168, 10777), (174, 10798), (175, 10804), (193, 10894), (203, 10936), (212, 10972), (221, 11005), (223, 11017), (230, 11041), (237, 11062), (243, 11086), (244, 11092), (250, 11128), (252, 11137), (259, 11170), (261, 11182), (269, 11209), (333, 11392), (336, 11404), (338, 11410), (350, 11449), (358, 11473), (395, 11506), (401, 11524), (411, 11533), (439, 11566), (490, 11755), (491, 11761), (498, 11797), (508, 11824), (514, 11842), (521, 11860), (562, 11968), (574, 12001), (587, 12034), (607, 12088), (615, 12121), (620, 12142), (630, 12166), (638, 12196), (642, 12217), (718, 12439), (751, 12532), (777, 12610), (811, 12733), (867, 12886), (933, 13273), (940, 13303), (941, 13312), (944, 13342), (955, 13402), (1000, 13510), (1045, 13642), (1065, 13735),

Gene: DrHayes_21 Start: 12024, Stop: 15863, Start Num: 21

Candidate Starts for DrHayes_21:

(Start: 21 @12024 has 179 MA's), (Start: 33 @12093 has 1 MA's), (43, 12180), (78, 12360), (84, 12387), (106, 12471), (108, 12480), (122, 12540), (124, 12552), (143, 12627), (155, 12678), (164, 12720), (168, 12741), (177, 12780), (193, 12858), (212, 12936), (218, 12960), (252, 13101), (275, 13194), (280, 13215), (282, 13224), (358, 13461), (365, 13485), (370, 13500), (382, 13533), (406, 13620), (434, 13707), (440, 13728), (471, 13812), (475, 13824), (479, 13845), (608, 14001), (625, 14082), (643, 14148), (647, 14169), (654, 14205), (670, 14256), (680, 14274), (690, 14313), (711, 14391), (737, 14478), (744, 14493), (758, 14535), (774, 14589), (831, 14829), (857, 14904), (892, 15015), (895, 15036), (898, 15057), (914, 15177), (940, 15351), (952, 15432), (953, 15441), (981, 15513), (997, 15543), (1003, 15564), (1045, 15684), (1062, 15756), (1064, 15774), (1065, 15780),

Gene: Durfee_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Durfee_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774,

14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: ECartman_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for ECartman_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Edugator_18 Start: 12113, Stop: 16225, Start Num: 20

Candidate Starts for Edugator_18:

(Start: 18 @12092 has 1 MA's), (Start: 20 @12113 has 36 MA's), (Start: 35 @12206 has 1 MA's), (45, 12284), (46, 12308), (58, 12368), (79, 12452), (108, 12566), (122, 12626), (124, 12638), (129, 12659), (143, 12713), (154, 12761), (164, 12806), (168, 12827), (193, 12944), (212, 13022), (218, 13046), (229, 13088), (237, 13112), (252, 13187), (275, 13280), (282, 13310), (338, 13484), (350, 13523), (358, 13547), (364, 13568), (385, 13628), (406, 13706), (434, 13793), (460, 13859), (472, 13901), (475, 13910), (488, 13994), (494, 14015), (500, 14048), (518, 14114), (524, 14135), (541, 14189), (544, 14198), (551, 14216), (562, 14243), (572, 14273), (581, 14309), (605, 14399), (608, 14405), (611, 14423), (638, 14528), (650, 14594), (711, 14789), (719, 14819), (730, 14852), (749, 14903), (753, 14924), (760, 14939), (761, 14945), (783, 15029), (797, 15077), (806, 15116), (819, 15176), (829, 15209), (834, 15230), (842, 15254), (853, 15284), (878, 15350), (895, 15422), (940, 15737), (941, 15746), (942, 15749), (944, 15776), (948, 15791), (950, 15806), (952, 15818), (959, 15848), (981, 15902), (989, 15920), (1023, 15989), (1036, 16037), (1045, 16061), (1049, 16073), (1053, 16082), (1066, 16154), (1068, 16178), (1073, 16217),

Gene: Efra2_21 Start: 11000, Stop: 15127, Start Num: 22

Candidate Starts for Efra2_21:

(15, 10952), (Start: 22 @11000 has 64 MA's), (37, 11093), (55, 11225), (60, 11249), (70, 11279), (75, 11300), (77, 11312), (94, 11372), (115, 11459), (123, 11492), (127, 11510), (128, 11513), (147, 11585), (181, 11729), (188, 11771), (192, 11786), (202, 11822), (221, 11894), (246, 11996), (289, 12179), (298, 12206), (304, 12224), (305, 12230), (318, 12272), (340, 12344), (342, 12350), (346, 12365), (353, 12386), (359, 12404), (364, 12419), (380, 12467), (390, 12500), (395, 12515), (406, 12554), (413, 12575), (420, 12605), (477, 12773), (482, 12824), (524, 12989), (531, 13013), (551, 13070), (569, 13121), (578, 13154), (581, 13163), (602, 13235), (618, 13310), (622, 13328), (634, 13370), (640, 13388), (645, 13415), (647, 13427), (685, 13556), (691, 13574), (711, 13655), (712, 13658), (737, 13742), (757, 13796), (758, 13799), (782, 13892), (799, 13958), (831, 14093), (873, 14219), (940, 14615), (941, 14624), (952, 14696), (981, 14780), (997, 14810), (1003, 14831), (1045, 14948), (1062, 15020), (1065, 15044), (1069, 15083),

Gene: Ekdilam_18 Start: 11907, Stop: 16097, Start Num: 21

Candidate Starts for Ekdilam_18:

(15, 11862), (Start: 21 @11907 has 179 MA's), (Start: 33 @11976 has 1 MA's), (43, 12063), (54, 12138), (78, 12240), (84, 12267), (91, 12300), (95, 12312), (106, 12351), (122, 12420), (124, 12432), (129, 12453), (143, 12507), (147, 12531), (149, 12537), (164, 12600), (168, 12621), (177, 12660), (183, 12684), (193, 12738), (212, 12816), (218, 12840), (239, 12915), (259, 13014), (269, 13053), (273, 13065), (280, 13095), (320, 13218), (325, 13233), (336, 13272), (341, 13287), (358, 13341),

(393, 13455), (394, 13458), (406, 13500), (413, 13521), (448, 13626), (453, 13641), (455, 13656), (461, 13677), (464, 13689), (477, 13734), (494, 13830), (524, 13950), (572, 14088), (576, 14109), (602, 14196), (608, 14220), (612, 14247), (613, 14250), (620, 14280), (634, 14331), (643, 14367), (670, 14475), (711, 14610), (712, 14613), (732, 14679), (735, 14685), (749, 14724), (773, 14796), (775, 14802), (780, 14823), (801, 14907), (808, 14937), (813, 14958), (814, 14970), (831, 15051), (841, 15084), (846, 15093), (849, 15099), (863, 15141), (869, 15159), (875, 15192), (877, 15198), (918, 15486), (940, 15600), (941, 15609), (942, 15612), (952, 15681), (1003, 15813), (1045, 15933), (1063, 16011), (1065, 16032), (1069, 16071),

Gene: Ellie_18 Start: 11944, Stop: 16092, Start Num: 21

Candidate Starts for Ellie_18:

(Start: 21 @11944 has 179 MA's), (Start: 33 @12013 has 1 MA's), (54, 12175), (78, 12277), (79, 12283), (84, 12304), (122, 12457), (124, 12469), (143, 12544), (149, 12574), (164, 12637), (168, 12658), (177, 12697), (193, 12775), (212, 12853), (218, 12877), (237, 12943), (252, 13018), (275, 13111), (297, 13192), (321, 13255), (336, 13309), (337, 13312), (343, 13330), (346, 13342), (364, 13399), (373, 13426), (382, 13450), (388, 13471), (393, 13492), (406, 13537), (460, 13711), (494, 13867), (524, 13987), (537, 14029), (539, 14035), (564, 14107), (572, 14125), (576, 14146), (608, 14257), (620, 14317), (630, 14350), (634, 14368), (640, 14386), (643, 14404), (646, 14416), (654, 14461), (670, 14512), (690, 14560), (711, 14638), (737, 14725), (739, 14731), (744, 14740), (762, 14797), (764, 14800), (782, 14875), (799, 14941), (831, 15076), (852, 15136), (857, 15151), (860, 15157), (941, 15607), (952, 15679), (953, 15688), (983, 15775), (1045, 15928), (1065, 16027), (1068, 16054), (1069, 16066),

Gene: Emerson_21 Start: 12076, Stop: 15909, Start Num: 21

Candidate Starts for Emerson_21:

(Start: 21 @12076 has 179 MA's), (Start: 33 @12145 has 1 MA's), (43, 12232), (54, 12307), (78, 12409), (84, 12436), (103, 12508), (106, 12520), (108, 12529), (124, 12601), (143, 12676), (162, 12760), (164, 12769), (168, 12790), (177, 12829), (193, 12907), (212, 12985), (237, 13075), (252, 13150), (275, 13243), (277, 13252), (280, 13264), (282, 13273), (358, 13510), (370, 13549), (382, 13582), (406, 13669), (414, 13693), (440, 13777), (471, 13861), (475, 13873), (479, 13894), (608, 14050), (625, 14131), (640, 14179), (643, 14197), (647, 14218), (654, 14254), (670, 14305), (690, 14362), (711, 14440), (714, 14449), (737, 14527), (744, 14542), (758, 14584), (774, 14638), (831, 14878), (857, 14953), (892, 15064), (918, 15283), (921, 15295), (952, 15478), (953, 15487), (981, 15559), (997, 15589), (1003, 15610), (1045, 15730), (1062, 15802), (1064, 15820), (1065, 15826),

Gene: Enkosi_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for Enkosi_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: Eponine_22 Start: 13193, Stop: 17389, Start Num: 22

Candidate Starts for Eponine_22:

(Start: 22 @13193 has 64 MA's), (47, 13391), (99, 13604), (106, 13631), (108, 13640), (124, 13712), (129, 13733), (162, 13871), (164, 13880), (168, 13901), (177, 13940), (190, 14009), (193, 14018), (212, 14096), (214, 14108), (237, 14186), (244, 14216), (249, 14249), (250, 14252), (255, 14273),

(291, 14414), (294, 14423), (337, 14555), (341, 14567), (358, 14621), (371, 14660), (382, 14693), (406, 14780), (413, 14801), (461, 14978), (476, 15029), (507, 15188), (572, 15389), (586, 15440), (588, 15449), (601, 15494), (605, 15515), (608, 15521), (639, 15626), (641, 15635), (664, 15734), (669, 15746), (672, 15755), (698, 15827), (704, 15860), (711, 15878), (712, 15881), (719, 15908), (758, 16007), (765, 16025), (782, 16100), (829, 16289), (831, 16301), (857, 16376), (876, 16445), (898, 16577), (912, 16691), (952, 16958), (955, 16976), (997, 17087), (998, 17090), (1033, 17189), (1044, 17216), (1045, 17219), (1065, 17315), (1071, 17378),

Gene: FF47_19 Start: 11405, Stop: 14815, Start Num: 89

Candidate Starts for FF47_19:

(Start: 89 @11405 has 2 MA's), (94, 11420), (107, 11468), (108, 11471), (119, 11516), (147, 11639), (227, 11966), (230, 11978), (237, 11999), (254, 12083), (267, 12137), (269, 12146), (283, 12200), (289, 12233), (293, 12242), (305, 12284), (325, 12329), (329, 12341), (335, 12362), (342, 12386), (359, 12440), (376, 12494), (384, 12515), (387, 12527), (393, 12551), (396, 12560), (417, 12638), (438, 12695), (465, 12764), (563, 12974), (574, 13013), (578, 13025), (597, 13088), (608, 13130), (611, 13148), (633, 13235), (640, 13259), (645, 13286), (647, 13298), (675, 13406), (681, 13415), (700, 13508), (714, 13538), (719, 13559), (724, 13574), (767, 13685), (771, 13706), (790, 13781), (812, 13877), (824, 13934), (831, 13967), (835, 13982), (909, 14213), (939, 14408), (953, 14504), (956, 14522), (976, 14564), (978, 14570), (990, 14597), (1026, 14699), (1028, 14708), (1041, 14747),

Gene: Fefferhead_20 Start: 12111, Stop: 16259, Start Num: 21

Candidate Starts for Fefferhead_20:

(Start: 21 @12111 has 179 MA's), (Start: 33 @12180 has 1 MA's), (54, 12342), (78, 12444), (79, 12450), (84, 12471), (122, 12624), (124, 12636), (143, 12711), (164, 12804), (168, 12825), (177, 12864), (193, 12942), (212, 13020), (218, 13044), (233, 13098), (237, 13110), (252, 13185), (275, 13278), (297, 13359), (321, 13422), (336, 13476), (343, 13497), (346, 13509), (358, 13545), (364, 13566), (370, 13584), (382, 13617), (388, 13638), (390, 13644), (393, 13659), (395, 13665), (406, 13704), (460, 13878), (494, 14034), (537, 14196), (539, 14202), (559, 14253), (572, 14292), (576, 14313), (608, 14424), (620, 14484), (630, 14517), (634, 14535), (640, 14553), (643, 14571), (646, 14583), (654, 14628), (670, 14679), (690, 14727), (711, 14805), (714, 14814), (737, 14892), (739, 14898), (744, 14907), (762, 14964), (764, 14967), (782, 15042), (799, 15108), (831, 15243), (852, 15303), (857, 15318), (860, 15324), (941, 15774), (952, 15846), (953, 15855), (983, 15942), (1045, 16095), (1065, 16194), (1068, 16221), (1069, 16233),

Gene: Feyre_19 Start: 12055, Stop: 16164, Start Num: 20

Candidate Starts for Feyre_19:

(Start: 20 @12055 has 36 MA's), (58, 12313), (79, 12397), (95, 12463), (103, 12490), (108, 12511), (122, 12571), (124, 12583), (129, 12604), (143, 12658), (149, 12688), (164, 12751), (168, 12772), (193, 12889), (203, 12931), (204, 12934), (212, 12967), (221, 13000), (275, 13225), (278, 13237), (280, 13246), (310, 13324), (333, 13387), (337, 13402), (338, 13405), (341, 13414), (343, 13420), (346, 13432), (347, 13435), (358, 13468), (363, 13486), (365, 13492), (395, 13588), (406, 13627), (460, 13780), (472, 13822), (478, 13846), (494, 13936), (500, 13969), (541, 14110), (544, 14119), (551, 14137), (562, 14164), (584, 14242), (608, 14326), (638, 14449), (650, 14515), (687, 14617), (711, 14710), (714, 14719), (719, 14740), (730, 14773), (749, 14824), (753, 14845), (760, 14860), (761, 14866), (783, 14950), (794, 14980), (797, 14998), (806, 15037), (819, 15097), (829, 15130), (834, 15151), (842, 15175), (853, 15208), (878, 15292), (895, 15364), (940, 15673), (948, 15727), (950, 15742), (952, 15754), (959, 15784), (1036, 15970), (1045, 15994), (1049, 16006), (1066, 16093), (1068, 16117),

Gene: Findley_17 Start: 10116, Stop: 13787, Start Num: 20

Candidate Starts for Findley_17:

(Start: 20 @10116 has 36 MA's), (Start: 33 @10188 has 1 MA's), (83, 10422), (103, 10473), (124, 10566), (129, 10587), (143, 10641), (164, 10734), (168, 10755), (174, 10776), (175, 10782), (193,

10872), (203, 10914), (212, 10950), (221, 10983), (223, 10995), (230, 11019), (237, 11040), (243, 11064), (244, 11070), (250, 11106), (252, 11115), (259, 11148), (261, 11160), (269, 11187), (333, 11370), (336, 11382), (338, 11388), (344, 11406), (350, 11427), (358, 11451), (365, 11475), (395, 11484), (400, 11499), (411, 11511), (439, 11544), (460, 11592), (490, 11733), (491, 11739), (498, 11775), (508, 11802), (514, 11820), (524, 11850), (562, 11946), (574, 11979), (588, 12015), (607, 12066), (615, 12099), (620, 12120), (630, 12144), (638, 12174), (642, 12195), (695, 12339), (718, 12417), (751, 12510), (777, 12588), (811, 12711), (843, 12816), (867, 12864), (940, 13284), (941, 13293), (944, 13323), (1000, 13488), (1045, 13617), (1065, 13710),

Gene: Fionnbharth_22 Start: 13314, Stop: 17489, Start Num: 22

Candidate Starts for Fionnbharth_22:

(15, 13278), (Start: 22 @13314 has 64 MA's), (47, 13512), (106, 13752), (108, 13761), (129, 13854), (154, 13956), (164, 14001), (177, 14061), (193, 14139), (212, 14217), (235, 14304), (237, 14307), (244, 14337), (249, 14370), (255, 14394), (276, 14478), (283, 14508), (291, 14535), (328, 14643), (334, 14664), (337, 14676), (341, 14688), (358, 14742), (406, 14901), (413, 14922), (440, 15030), (476, 15150), (564, 15492), (572, 15510), (586, 15561), (588, 15570), (601, 15615), (605, 15636), (641, 15756), (664, 15855), (669, 15867), (672, 15876), (698, 15948), (711, 15999), (712, 16002), (719, 16029), (758, 16128), (765, 16146), (782, 16221), (829, 16410), (831, 16422), (857, 16497), (870, 16527), (898, 16683), (914, 16803), (926, 16911), (952, 17061), (997, 17190), (998, 17193), (1033, 17292), (1044, 17319), (1065, 17415), (1071, 17478),

Gene: FlagStaff_16 Start: 11630, Stop: 15664, Start Num: 22

Candidate Starts for FlagStaff_16:

(Start: 22 @11630 has 64 MA's), (36, 11723), (41, 11753), (58, 11900), (79, 11984), (Start: 89 @12032 has 2 MA's), (122, 12158), (124, 12170), (129, 12191), (164, 12338), (168, 12359), (174, 12380), (177, 12398), (183, 12422), (186, 12434), (199, 12506), (204, 12521), (212, 12554), (246, 12686), (250, 12710), (255, 12731), (259, 12752), (261, 12764), (269, 12791), (273, 12803), (280, 12833), (291, 12881), (337, 13022), (338, 13025), (350, 13064), (358, 13088), (372, 13133), (373, 13136), (406, 13247), (475, 13451), (491, 13547), (494, 13556), (509, 13616), (541, 13730), (549, 13751), (571, 13811), (580, 13844), (588, 13874), (608, 13946), (613, 13976), (618, 13997), (645, 14102), (646, 14105), (656, 14159), (693, 14258), (698, 14276), (717, 14342), (721, 14357), (728, 14381), (746, 14423), (749, 14432), (769, 14492), (790, 14582), (812, 14678), (823, 14735), (831, 14768), (856, 14828), (863, 14843), (909, 15038), (940, 15245), (950, 15314), (952, 15326), (957, 15356), (970, 15416), (1023, 15512), (1040, 15572), (1047, 15590),

Gene: ForeverHowLong_16 Start: 11459, Stop: 15472, Start Num: 21

Candidate Starts for ForeverHowLong_16:

(Start: 21 @11459 has 179 MA's), (47, 11660), (75, 11774), (84, 11816), (90, 11846), (124, 11981), (126, 11993), (129, 12002), (174, 12191), (177, 12209), (178, 12212), (183, 12233), (186, 12245), (199, 12317), (212, 12365), (246, 12497), (250, 12521), (269, 12602), (304, 12725), (333, 12809), (344, 12845), (358, 12890), (359, 12896), (393, 13004), (401, 13028), (406, 13049), (478, 13268), (509, 13418), (532, 13505), (571, 13613), (608, 13748), (634, 13859), (640, 13877), (646, 13907), (707, 14129), (717, 14153), (721, 14168), (726, 14189), (737, 14216), (749, 14243), (769, 14303), (790, 14393), (795, 14426), (812, 14489), (823, 14546), (831, 14579), (833, 14588), (942, 15092), (944, 15119), (950, 15149), (952, 15161), (953, 15170), (981, 15239), (1023, 15320), (1040, 15380), (1047, 15398), (1050, 15407),

Gene: Frizzle_14 Start: 9174, Stop: 13496, Start Num: 5

Candidate Starts for Frizzle_14:

(Start: 5 @9174 has 4 MA's), (24, 9369), (34, 9432), (42, 9495), (56, 9621), (57, 9624), (67, 9663), (74, 9684), (78, 9705), (86, 9747), (105, 9810), (109, 9831), (145, 9978), (158, 10026), (163, 10050), (206, 10227), (210, 10242), (241, 10359), (270, 10491), (271, 10494), (293, 10590), (306, 10635), (317, 10680), (325, 10704), (350, 10785), (357, 10806), (361, 10818), (397, 10929), (413, 10977), (450,

11109), (477, 11202), (483, 11256), (491, 11289), (500, 11334), (600, 11439), (623, 11541), (639, 11595), (640, 11598), (643, 11616), (644, 11619), (646, 11628), (711, 11928), (714, 11937), (718, 11955), (724, 11973), (778, 12147), (826, 12351), (831, 12375), (845, 12402), (885, 12540), (899, 12630), (910, 12702), (937, 12885), (964, 13047), (970, 13077), (997, 13203), (1014, 13296), (1021, 13323), (1030, 13401), (1038, 13428),

Gene: Frosty24_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Frosty24_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Ganymede_22 Start: 12096, Stop: 15929, Start Num: 21

Candidate Starts for Ganymede_22:

(Start: 21 @12096 has 179 MA's), (Start: 33 @12165 has 1 MA's), (43, 12252), (78, 12429), (84, 12456), (106, 12540), (108, 12549), (124, 12621), (143, 12696), (162, 12780), (164, 12789), (168, 12810), (177, 12849), (193, 12927), (212, 13005), (237, 13095), (252, 13170), (275, 13263), (280, 13284), (282, 13293), (358, 13530), (370, 13569), (382, 13602), (406, 13689), (414, 13713), (440, 13797), (471, 13881), (475, 13893), (479, 13914), (608, 14070), (625, 14151), (640, 14199), (643, 14217), (647, 14238), (654, 14274), (670, 14325), (690, 14382), (711, 14460), (714, 14469), (737, 14547), (758, 14604), (774, 14658), (831, 14898), (857, 14973), (892, 15084), (918, 15303), (921, 15315), (952, 15498), (953, 15507), (981, 15579), (997, 15609), (1003, 15630), (1045, 15750), (1062, 15822), (1064, 15840), (1065, 15846),

Gene: Gengar_19 Start: 12162, Stop: 16271, Start Num: 20

Candidate Starts for Gengar_19:

(Start: 20 @12162 has 36 MA's), (58, 12420), (79, 12504), (95, 12570), (108, 12618), (122, 12678), (124, 12690), (129, 12711), (143, 12765), (149, 12795), (164, 12858), (168, 12879), (182, 12936), (193, 12996), (212, 13074), (218, 13098), (229, 13140), (239, 13173), (275, 13332), (280, 13353), (310, 13431), (333, 13494), (337, 13509), (338, 13512), (341, 13521), (343, 13527), (346, 13539), (358, 13575), (363, 13593), (395, 13695), (406, 13734), (460, 13887), (472, 13929), (478, 13953), (494, 14043), (500, 14076), (518, 14142), (541, 14217), (544, 14226), (551, 14244), (562, 14271), (584, 14349), (608, 14433), (638, 14556), (650, 14622), (687, 14724), (711, 14817), (719, 14847), (727, 14874), (730, 14880), (749, 14931), (753, 14952), (760, 14967), (761, 14973), (783, 15057), (794, 15087), (797, 15105), (806, 15144), (819, 15204), (829, 15237), (834, 15258), (842, 15282), (853, 15315), (878, 15399), (895, 15471), (940, 15780), (948, 15834), (950, 15849), (952, 15861), (959, 15891), (1036, 16077), (1045, 16101), (1049, 16113), (1066, 16200), (1068, 16224),

Gene: Geraldini_21 Start: 12092, Stop: 15925, Start Num: 21

Candidate Starts for Geraldini_21:

(Start: 21 @12092 has 179 MA's), (Start: 33 @12161 has 1 MA's), (Start: 35 @12182 has 1 MA's), (43, 12248), (78, 12425), (84, 12452), (103, 12524), (106, 12536), (108, 12545), (124, 12617), (143, 12692), (162, 12776), (164, 12785), (168, 12806), (177, 12845), (193, 12923), (212, 13001), (237, 13091), (252, 13166), (275, 13259), (277, 13268), (280, 13280), (282, 13289), (358, 13526), (370, 13565), (382, 13598), (406, 13685), (414, 13709), (440, 13793), (471, 13877), (475, 13889), (479, 13910), (608, 14066), (625, 14147), (640, 14195), (643, 14213), (647, 14234), (654, 14270), (670, 14321), (690, 14378), (711, 14456), (714, 14465), (737, 14543), (744, 14558), (758, 14600), (774,

14654), (831, 14894), (857, 14969), (892, 15080), (918, 15299), (921, 15311), (952, 15494), (953, 15503), (981, 15575), (997, 15605), (1003, 15626), (1045, 15746), (1062, 15818), (1064, 15836), (1065, 15842),

Gene: Ghobes_14 Start: 9172, Stop: 13494, Start Num: 5

Candidate Starts for Ghobes_14:

(Start: 5 @9172 has 4 MA's), (24, 9367), (34, 9430), (42, 9493), (56, 9619), (57, 9622), (74, 9682), (78, 9703), (86, 9745), (105, 9808), (109, 9829), (145, 9976), (158, 10024), (206, 10225), (210, 10240), (213, 10255), (241, 10357), (253, 10417), (270, 10489), (271, 10492), (293, 10588), (306, 10633), (317, 10678), (325, 10702), (350, 10783), (357, 10804), (361, 10816), (397, 10927), (413, 10975), (450, 11107), (477, 11200), (483, 11254), (491, 11287), (600, 11437), (623, 11539), (639, 11593), (640, 11596), (643, 11614), (644, 11617), (646, 11626), (711, 11926), (714, 11935), (718, 11953), (724, 11971), (778, 12145), (826, 12349), (831, 12373), (845, 12400), (885, 12538), (899, 12628), (910, 12700), (937, 12883), (964, 13045), (970, 13075), (997, 13201), (1014, 13294), (1025, 13381), (1030, 13399), (1038, 13426),

Gene: Gideon_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Gideon_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: GodSpeed_17 Start: 11597, Stop: 15640, Start Num: 22

Candidate Starts for GodSpeed_17:

(Start: 22 @11597 has 64 MA's), (36, 11690), (41, 11720), (58, 11867), (79, 11951), (84, 11972), (Start: 89 @11999 has 2 MA's), (97, 12023), (103, 12044), (124, 12137), (129, 12158), (164, 12305), (174, 12347), (177, 12365), (183, 12389), (186, 12401), (197, 12461), (199, 12473), (204, 12488), (212, 12521), (233, 12599), (246, 12653), (250, 12677), (255, 12698), (259, 12719), (261, 12731), (269, 12758), (280, 12800), (291, 12848), (346, 13019), (350, 13031), (367, 13088), (373, 13103), (390, 13154), (393, 13169), (406, 13214), (432, 13292), (478, 13433), (491, 13514), (494, 13523), (509, 13583), (513, 13598), (541, 13697), (549, 13718), (562, 13751), (571, 13778), (580, 13811), (586, 13832), (601, 13886), (602, 13889), (613, 13943), (618, 13964), (646, 14072), (656, 14126), (693, 14234), (697, 14249), (709, 14297), (717, 14318), (721, 14333), (744, 14396), (749, 14408), (755, 14432), (756, 14435), (762, 14450), (778, 14501), (782, 14528), (809, 14633), (831, 14729), (855, 14804), (895, 14927), (898, 14948), (907, 15011), (909, 15020), (922, 15149), (942, 15230), (944, 15257), (950, 15287), (952, 15299), (957, 15329), (1005, 15467), (1040, 15548), (1047, 15566),

Gene: Goib_21 Start: 12184, Stop: 15645, Start Num: 31

Candidate Starts for Goib_21:

(Start: 31 @12184 has 11 MA's), (39, 12226), (42, 12259), (61, 12364), (62, 12367), (157, 12652), (170, 12703), (221, 12859), (223, 12871), (227, 12880), (242, 12934), (245, 12946), (266, 13027), (315, 13156), (322, 13165), (331, 13183), (349, 13243), (355, 13258), (371, 13306), (407, 13393), (415, 13417), (431, 13480), (443, 13516), (447, 13525), (451, 13534), (463, 13576), (479, 13633), (489, 13660), (496, 13690), (520, 13705), (530, 13723), (536, 13759), (545, 13783), (550, 13795), (557, 13819), (569, 13858), (585, 13912), (592, 13939), (606, 13993), (608, 13996), (624, 14035), (627, 14047), (647, 14110), (653, 14143), (655, 14152), (660, 14167), (663, 14185), (683, 14263), (691, 14290), (718, 14407), (719, 14410), (730, 14443), (733, 14452), (745, 14488), (758, 14536),

(799, 14695), (831, 14830), (865, 14905), (892, 15007), (908, 15103), (910, 15112), (915, 15169), (927, 15244), (928, 15250), (931, 15265), (936, 15289), (961, 15406), (963, 15418), (967, 15445), (974, 15463), (995, 15565), (997, 15571), (1010, 15625), (1013, 15640),

Gene: GoldenAsh_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for GoldenAsh_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Gomashi_16 Start: 11465, Stop: 15478, Start Num: 21

Candidate Starts for Gomashi_16:

(Start: 21 @11465 has 179 MA's), (47, 11666), (75, 11780), (84, 11822), (90, 11852), (124, 11987), (126, 11999), (129, 12008), (174, 12197), (177, 12215), (178, 12218), (183, 12239), (186, 12251), (199, 12323), (212, 12371), (246, 12503), (250, 12527), (269, 12608), (304, 12731), (333, 12815), (344, 12851), (358, 12896), (359, 12902), (393, 13010), (401, 13034), (406, 13055), (478, 13274), (509, 13424), (532, 13511), (571, 13619), (608, 13754), (634, 13865), (640, 13883), (646, 13913), (707, 14135), (717, 14159), (721, 14174), (726, 14195), (737, 14222), (749, 14249), (769, 14309), (790, 14399), (795, 14432), (812, 14495), (823, 14552), (831, 14585), (833, 14594), (942, 15098), (944, 15125), (950, 15155), (952, 15167), (953, 15176), (981, 15245), (1023, 15326), (1040, 15386), (1047, 15404), (1050, 15413),

Gene: Grizzly_16 Start: 11464, Stop: 15480, Start Num: 21

Candidate Starts for Grizzly_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (82, 11812), (84, 11821), (90, 11851), (124, 11986), (129, 12007), (164, 12154), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (341, 12841), (344, 12850), (359, 12901), (366, 12925), (376, 12952), (406, 13054), (476, 13261), (478, 13273), (507, 13420), (509, 13423), (571, 13618), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (728, 14197), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (799, 14446), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15100), (944, 15127), (950, 15157), (952, 15169), (953, 15178), (981, 15247), (1023, 15328), (1040, 15388), (1047, 15406), (1050, 15415),

Gene: Gspu1_18 Start: 10609, Stop: 14904, Start Num: 31

Candidate Starts for Gspu1_18:

(13, 10492), (Start: 31 @10609 has 11 MA's), (39, 10651), (44, 10717), (75, 10852), (78, 10867), (80, 10876), (86, 10909), (104, 10969), (130, 11077), (141, 11110), (170, 11194), (190, 11248), (198, 11281), (220, 11356), (228, 11386), (231, 11395), (239, 11422), (257, 11494), (264, 11518), (272, 11542), (314, 11653), (360, 11773), (379, 11824), (387, 11839), (389, 11845), (392, 11857), (417, 11935), (435, 12007), (463, 12091), (467, 12103), (477, 12136), (484, 12193), (485, 12196), (512, 12301), (522, 12340), (550, 12442), (558, 12469), (567, 12493), (575, 12520), (579, 12526), (589, 12559), (593, 12574), (595, 12580), (598, 12592), (610, 12640), (615, 12673), (649, 12817), (651, 12829), (653, 12838), (672, 12922), (708, 13069), (709, 13078), (718, 13111), (719, 13114), (730, 13147), (733, 13156), (743, 13189), (772, 13270), (776, 13285), (779, 13300), (805, 13438), (820, 13540), (821, 13543), (837, 13639), (851, 13669), (860, 13702), (908, 13951), (909, 13954), (910, 13960), (923, 14080), (924, 14092), (932, 14143), (943, 14191), (947, 14215), (958, 14275), (996,

14461), (1011, 14530), (1019, 14575), (1027, 14659), (1030, 14668), (1032, 14680), (1055, 14752), (1075, 14899),

Gene: Guanica15_21 Start: 11016, Stop: 15143, Start Num: 22

Candidate Starts for Guanica15_21:

(15, 10968), (Start: 22 @11016 has 64 MA's), (37, 11109), (55, 11241), (60, 11265), (70, 11295), (75, 11316), (77, 11328), (94, 11388), (115, 11475), (123, 11508), (127, 11526), (128, 11529), (147, 11601), (181, 11745), (188, 11787), (192, 11802), (202, 11838), (221, 11910), (246, 12012), (289, 12195), (298, 12222), (304, 12240), (305, 12246), (318, 12288), (340, 12360), (342, 12366), (346, 12381), (353, 12402), (359, 12420), (364, 12435), (380, 12483), (390, 12516), (395, 12531), (406, 12570), (413, 12591), (420, 12621), (477, 12789), (482, 12840), (524, 13005), (531, 13029), (551, 13086), (569, 13137), (578, 13170), (581, 13179), (602, 13251), (618, 13326), (622, 13344), (634, 13386), (640, 13404), (645, 13431), (647, 13443), (685, 13572), (691, 13590), (711, 13671), (712, 13674), (737, 13758), (757, 13812), (758, 13815), (782, 13908), (799, 13974), (831, 14109), (873, 14235), (940, 14631), (941, 14640), (952, 14712), (981, 14796), (1045, 14964), (1062, 15036), (1065, 15060), (1069, 15099),

Gene: Guillsminger_19 Start: 12137, Stop: 16246, Start Num: 20

Candidate Starts for Guillsminger_19:

(Start: 20 @12137 has 36 MA's), (58, 12395), (79, 12479), (95, 12545), (108, 12593), (122, 12653), (124, 12665), (129, 12686), (143, 12740), (149, 12770), (164, 12833), (168, 12854), (182, 12911), (193, 12971), (212, 13049), (218, 13073), (229, 13115), (239, 13148), (275, 13307), (280, 13328), (310, 13406), (333, 13469), (337, 13484), (338, 13487), (341, 13496), (343, 13502), (346, 13514), (358, 13550), (363, 13568), (395, 13670), (406, 13709), (460, 13862), (472, 13904), (478, 13928), (494, 14018), (500, 14051), (518, 14117), (541, 14192), (544, 14201), (551, 14219), (562, 14246), (584, 14324), (608, 14408), (638, 14531), (650, 14597), (687, 14699), (711, 14792), (719, 14822), (727, 14849), (730, 14855), (749, 14906), (753, 14927), (760, 14942), (761, 14948), (783, 15032), (794, 15062), (797, 15080), (806, 15119), (819, 15179), (829, 15212), (834, 15233), (842, 15257), (853, 15290), (878, 15374), (895, 15446), (940, 15755), (948, 15809), (950, 15824), (952, 15836), (959, 15866), (1036, 16052), (1045, 16076), (1049, 16088), (1066, 16175), (1068, 16199),

Gene: Halo_16 Start: 11459, Stop: 15472, Start Num: 21

Candidate Starts for Halo_16:

(Start: 21 @11459 has 179 MA's), (47, 11660), (75, 11774), (84, 11816), (90, 11846), (124, 11981), (126, 11993), (129, 12002), (174, 12191), (177, 12209), (178, 12212), (183, 12233), (186, 12245), (199, 12317), (212, 12365), (246, 12497), (250, 12521), (269, 12602), (304, 12725), (333, 12809), (344, 12845), (358, 12890), (359, 12896), (393, 13004), (401, 13028), (406, 13049), (478, 13268), (509, 13418), (532, 13505), (571, 13613), (608, 13748), (634, 13859), (640, 13877), (646, 13907), (707, 14129), (717, 14153), (721, 14168), (726, 14189), (737, 14216), (749, 14243), (769, 14303), (790, 14393), (795, 14426), (812, 14489), (823, 14546), (831, 14579), (833, 14588), (942, 15092), (944, 15119), (950, 15149), (952, 15161), (953, 15170), (981, 15239), (1023, 15320), (1040, 15380), (1047, 15398), (1050, 15407),

Gene: Hammy_20 Start: 12190, Stop: 16329, Start Num: 21

Candidate Starts for Hammy_20:

(15, 12145), (Start: 21 @12190 has 179 MA's), (Start: 33 @12259 has 1 MA's), (43, 12346), (54, 12421), (78, 12523), (79, 12529), (84, 12550), (91, 12583), (95, 12595), (106, 12634), (108, 12643), (122, 12703), (124, 12715), (129, 12736), (143, 12790), (149, 12820), (164, 12883), (168, 12904), (177, 12943), (193, 13021), (212, 13099), (218, 13123), (259, 13297), (269, 13336), (272, 13345), (273, 13348), (280, 13378), (320, 13501), (325, 13516), (336, 13555), (350, 13600), (358, 13624), (391, 13726), (393, 13738), (395, 13744), (406, 13783), (448, 13909), (453, 13924), (461, 13960), (464, 13972), (477, 14017), (494, 14113), (559, 14332), (572, 14371), (576, 14392), (602, 14479), (608, 14503), (612, 14530), (613, 14533), (620, 14563), (634, 14614), (643, 14650), (670, 14758),

(711, 14893), (712, 14896), (732, 14962), (735, 14968), (749, 15007), (773, 15079), (775, 15085), (780, 15106), (801, 15190), (808, 15220), (813, 15241), (814, 15253), (831, 15334), (841, 15367), (846, 15376), (849, 15382), (863, 15424), (869, 15442), (875, 15475), (877, 15481), (893, 15526), (918, 15736), (940, 15835), (941, 15844), (942, 15847), (952, 15916), (1003, 16051), (1027, 16120), (1045, 16168), (1065, 16264), (1069, 16303),

Gene: HedwigODU_21 Start: 12079, Stop: 15918, Start Num: 21

Candidate Starts for HedwigODU_21:

(Start: 21 @12079 has 179 MA's), (Start: 33 @12148 has 1 MA's), (43, 12235), (78, 12412), (84, 12439), (103, 12511), (106, 12523), (108, 12532), (124, 12604), (143, 12679), (162, 12763), (164, 12772), (168, 12793), (177, 12832), (193, 12910), (212, 12988), (237, 13078), (252, 13153), (275, 13246), (277, 13255), (280, 13267), (282, 13276), (365, 13537), (370, 13552), (382, 13585), (406, 13672), (414, 13696), (440, 13780), (471, 13864), (475, 13876), (479, 13897), (608, 14053), (625, 14134), (640, 14182), (643, 14200), (647, 14221), (654, 14257), (670, 14308), (690, 14365), (711, 14443), (714, 14452), (737, 14530), (758, 14587), (774, 14641), (831, 14881), (857, 14956), (892, 15067), (918, 15286), (921, 15298), (952, 15487), (953, 15496), (981, 15568), (997, 15598), (1003, 15619), (1045, 15739), (1062, 15811), (1064, 15829), (1065, 15835),

Gene: Heftyboy_19 Start: 12264, Stop: 16394, Start Num: 20

Candidate Starts for Heftyboy_19:

(Start: 20 @12264 has 36 MA's), (Start: 35 @12357 has 1 MA's), (45, 12435), (46, 12459), (58, 12519), (79, 12603), (82, 12615), (108, 12717), (122, 12777), (124, 12789), (129, 12810), (143, 12864), (154, 12912), (164, 12957), (168, 12978), (193, 13095), (212, 13173), (218, 13197), (237, 13263), (252, 13338), (275, 13431), (282, 13461), (338, 13635), (341, 13644), (350, 13674), (358, 13698), (364, 13719), (385, 13779), (406, 13857), (409, 13866), (434, 13944), (460, 14010), (472, 14052), (475, 14061), (488, 14145), (494, 14166), (500, 14199), (541, 14340), (544, 14349), (551, 14367), (562, 14394), (584, 14472), (608, 14556), (638, 14679), (650, 14745), (711, 14940), (719, 14970), (727, 14997), (730, 15003), (738, 15030), (753, 15075), (760, 15090), (761, 15096), (783, 15180), (797, 15228), (806, 15267), (819, 15327), (829, 15360), (834, 15381), (842, 15405), (853, 15438), (878, 15522), (895, 15594), (940, 15903), (948, 15957), (950, 15972), (952, 15984), (959, 16014), (1036, 16200), (1045, 16224), (1049, 16236), (1066, 16323), (1068, 16347),

Gene: Homura_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Homura_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (890, 15089), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Hope_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Hope_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308),

(790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Hotshotbaby7_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Hotshotbaby7_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Huffy_22 Start: 12409, Stop: 15867, Start Num: 31

Candidate Starts for Huffy_22:

(Start: 31 @12409 has 11 MA's), (39, 12451), (42, 12484), (61, 12589), (62, 12592), (157, 12877), (170, 12928), (221, 13084), (223, 13096), (227, 13105), (245, 13171), (266, 13252), (315, 13381), (322, 13390), (331, 13408), (335, 13420), (349, 13468), (355, 13483), (371, 13531), (407, 13618), (415, 13642), (426, 13681), (431, 13705), (443, 13741), (447, 13750), (451, 13759), (461, 13792), (463, 13801), (479, 13858), (489, 13885), (496, 13915), (530, 13948), (536, 13984), (545, 14008), (550, 14020), (557, 14044), (585, 14137), (592, 14164), (602, 14197), (606, 14218), (624, 14260), (627, 14272), (647, 14335), (653, 14368), (655, 14377), (660, 14392), (663, 14410), (683, 14488), (691, 14515), (714, 14614), (718, 14632), (719, 14635), (730, 14668), (733, 14677), (745, 14713), (758, 14761), (799, 14920), (831, 15055), (865, 15130), (892, 15229), (908, 15325), (910, 15334), (911, 15361), (927, 15466), (928, 15472), (931, 15487), (936, 15511), (961, 15628), (963, 15640), (967, 15667), (979, 15712), (987, 15760), (995, 15787), (997, 15793), (1010, 15847), (1013, 15862),

Gene: Hurricane_20 Start: 12208, Stop: 16356, Start Num: 21

Candidate Starts for Hurricane_20:

(Start: 21 @12208 has 179 MA's), (Start: 33 @12277 has 1 MA's), (Start: 35 @12298 has 1 MA's), (37, 12304), (43, 12364), (69, 12502), (79, 12547), (84, 12568), (87, 12589), (103, 12640), (122, 12721), (124, 12733), (129, 12754), (143, 12808), (152, 12850), (164, 12901), (168, 12922), (173, 12940), (178, 12964), (187, 13015), (193, 13039), (204, 13084), (212, 13117), (218, 13141), (259, 13315), (275, 13375), (280, 13396), (282, 13405), (336, 13573), (343, 13594), (350, 13618), (358, 13642), (364, 13663), (371, 13681), (378, 13702), (382, 13714), (393, 13756), (394, 13759), (406, 13801), (411, 13816), (432, 13879), (464, 13990), (474, 14020), (485, 14098), (517, 14218), (524, 14251), (556, 14341), (562, 14359), (572, 14389), (578, 14416), (634, 14632), (643, 14668), (659, 14743), (670, 14776), (673, 14788), (691, 14836), (711, 14917), (712, 14920), (758, 15037), (782, 15130), (802, 15208), (826, 15307), (831, 15331), (857, 15406), (940, 15865), (941, 15874), (942, 15877), (952, 15946), (953, 15955), (1002, 16087), (1029, 16147), (1035, 16165), (1049, 16201), (1053, 16210), (1064, 16276), (1065, 16282), (1067, 16297), (1068, 16309),

Gene: Hyperbowlee_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Hyperbowlee_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670,

14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Illumine_21 Start: 12077, Stop: 15931, Start Num: 21

Candidate Starts for Illumine_21:

(Start: 21 @12077 has 179 MA's), (Start: 33 @12146 has 1 MA's), (43, 12233), (78, 12413), (84, 12440), (106, 12524), (108, 12533), (122, 12593), (124, 12605), (143, 12680), (152, 12722), (162, 12764), (164, 12773), (168, 12794), (177, 12833), (193, 12911), (203, 12953), (212, 12989), (252, 13154), (275, 13247), (280, 13268), (282, 13277), (365, 13559), (370, 13574), (382, 13607), (406, 13694), (440, 13802), (471, 13886), (475, 13898), (479, 13919), (608, 14075), (625, 14156), (640, 14204), (643, 14222), (647, 14243), (654, 14279), (670, 14330), (690, 14387), (711, 14465), (714, 14474), (737, 14552), (744, 14567), (758, 14609), (774, 14663), (802, 14780), (831, 14903), (857, 14978), (898, 15131), (918, 15308), (940, 15422), (952, 15503), (953, 15512), (981, 15584), (997, 15614), (1003, 15635), (1045, 15752), (1062, 15824), (1065, 15848),

Gene: Inky_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Inky_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: InvictusManeo_19 Start: 12240, Stop: 16346, Start Num: 20

Candidate Starts for InvictusManeo_19:

(Start: 20 @12240 has 36 MA's), (Start: 35 @12333 has 1 MA's), (45, 12411), (46, 12435), (58, 12495), (79, 12579), (82, 12591), (108, 12693), (122, 12753), (124, 12765), (129, 12786), (143, 12840), (154, 12888), (164, 12933), (168, 12954), (193, 13071), (212, 13149), (218, 13173), (237, 13239), (252, 13314), (275, 13407), (282, 13437), (338, 13611), (341, 13620), (350, 13650), (358, 13674), (364, 13695), (385, 13755), (406, 13833), (409, 13842), (434, 13920), (460, 13986), (472, 14028), (475, 14037), (488, 14121), (494, 14142), (500, 14175), (518, 14241), (524, 14262), (541, 14316), (544, 14325), (551, 14343), (559, 14361), (562, 14370), (572, 14400), (581, 14436), (597, 14490), (605, 14526), (608, 14532), (611, 14550), (638, 14655), (650, 14721), (711, 14916), (719, 14946), (730, 14979), (749, 15030), (753, 15051), (760, 15066), (761, 15072), (783, 15156), (797, 15204), (806, 15243), (819, 15303), (829, 15336), (834, 15357), (842, 15381), (853, 15411), (878, 15477), (895, 15549), (940, 15864), (941, 15873), (942, 15876), (948, 15918), (952, 15945), (959, 15975), (981, 16026), (989, 16044), (1023, 16110), (1036, 16158), (1045, 16182), (1049, 16194), (1066, 16275), (1068, 16299), (1073, 16338),

Gene: JAWS_21 Start: 12070, Stop: 15903, Start Num: 21

Candidate Starts for JAWS_21:

(Start: 21 @12070 has 179 MA's), (Start: 33 @12139 has 1 MA's), (43, 12226), (54, 12301), (78, 12403), (84, 12430), (103, 12502), (106, 12514), (108, 12523), (124, 12595), (143, 12670), (162, 12754), (164, 12763), (168, 12784), (177, 12823), (186, 12859), (193, 12901), (212, 12979), (237, 13069), (252, 13144), (275, 13237), (277, 13246), (280, 13258), (282, 13267), (358, 13504), (370, 13543), (382, 13576), (406, 13663), (414, 13687), (440, 13771), (471, 13855), (475, 13867), (479,

13888), (608, 14044), (625, 14125), (640, 14173), (643, 14191), (647, 14212), (654, 14248), (670, 14299), (690, 14356), (711, 14434), (714, 14443), (737, 14521), (744, 14536), (758, 14578), (774, 14632), (831, 14872), (857, 14947), (892, 15058), (918, 15277), (921, 15289), (952, 15472), (953, 15481), (981, 15553), (997, 15583), (1003, 15604), (1045, 15724), (1062, 15796), (1064, 15814), (1065, 15820),

Gene: JF1_22 Start: 13313, Stop: 17488, Start Num: 22

Candidate Starts for JF1_22:

(15, 13277), (Start: 22 @13313 has 64 MA's), (47, 13511), (106, 13751), (108, 13760), (129, 13853), (154, 13955), (164, 14000), (177, 14060), (193, 14138), (212, 14216), (235, 14303), (237, 14306), (244, 14336), (249, 14369), (255, 14393), (276, 14477), (283, 14507), (291, 14534), (328, 14642), (334, 14663), (337, 14675), (341, 14687), (358, 14741), (406, 14900), (413, 14921), (440, 15029), (476, 15149), (564, 15491), (572, 15509), (586, 15560), (588, 15569), (601, 15614), (605, 15635), (641, 15755), (664, 15854), (669, 15866), (672, 15875), (698, 15947), (711, 15998), (712, 16001), (719, 16028), (758, 16127), (765, 16145), (782, 16220), (829, 16409), (831, 16421), (857, 16496), (870, 16526), (898, 16682), (914, 16802), (926, 16910), (952, 17060), (989, 17180), (997, 17189), (998, 17192), (1033, 17291), (1044, 17318), (1065, 17414), (1071, 17477),

Gene: Jane_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Jane_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Jarvi_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Jarvi_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Jayhawk_21 Start: 12080, Stop: 15916, Start Num: 21

Candidate Starts for Jayhawk_21:

(Start: 21 @12080 has 179 MA's), (Start: 33 @12149 has 1 MA's), (43, 12236), (78, 12413), (84, 12440), (103, 12512), (106, 12524), (108, 12533), (124, 12605), (143, 12680), (162, 12764), (164, 12773), (168, 12794), (177, 12833), (193, 12911), (212, 12989), (237, 13079), (252, 13154), (275, 13247), (277, 13256), (280, 13268), (282, 13277), (365, 13538), (370, 13553), (382, 13586), (406, 13673), (414, 13697), (440, 13781), (471, 13865), (475, 13877), (479, 13898), (608, 14054), (625, 14135), (640, 14183), (643, 14201), (647, 14222), (654, 14258), (670, 14309), (690, 14366), (711, 14444), (714, 14453), (737, 14531), (758, 14588), (774, 14642), (831, 14882), (857, 14957), (892, 15068), (918, 15287), (921, 15299), (952, 15485), (953, 15494), (981, 15566), (997, 15596), (1003,

15617), (1045, 15737), (1062, 15809), (1064, 15827), (1065, 15833),

Gene: Jeckyll_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Jeckyll_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Jeilious_16 Start: 11463, Stop: 15476, Start Num: 21

Candidate Starts for Jeilious_16:

(Start: 21 @11463 has 179 MA's), (47, 11664), (75, 11778), (84, 11820), (90, 11850), (124, 11985), (126, 11997), (129, 12006), (174, 12195), (177, 12213), (178, 12216), (183, 12237), (186, 12249), (199, 12321), (212, 12369), (246, 12501), (250, 12525), (269, 12606), (304, 12729), (333, 12813), (344, 12849), (358, 12894), (359, 12900), (393, 13008), (401, 13032), (406, 13053), (478, 13272), (509, 13422), (532, 13509), (571, 13617), (608, 13752), (634, 13863), (640, 13881), (646, 13911), (707, 14133), (717, 14157), (721, 14172), (726, 14193), (737, 14220), (749, 14247), (769, 14307), (790, 14397), (795, 14430), (812, 14493), (823, 14550), (831, 14583), (833, 14592), (942, 15096), (944, 15123), (950, 15153), (952, 15165), (953, 15174), (981, 15243), (1023, 15324), (1040, 15384), (1047, 15402), (1050, 15411),

Gene: Jolene_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Jolene_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Jolie2_16 Start: 10765, Stop: 14787, Start Num: 22

Candidate Starts for Jolie2_16:

(Start: 22 @10765 has 64 MA's), (Start: 33 @10834 has 1 MA's), (37, 10861), (50, 10975), (82, 11098), (87, 11122), (88, 11125), (99, 11158), (101, 11161), (110, 11203), (111, 11212), (144, 11344), (148, 11368), (153, 11386), (163, 11431), (169, 11455), (171, 11467), (181, 11509), (188, 11551), (200, 11596), (202, 11602), (218, 11665), (221, 11674), (223, 11686), (225, 11695), (235, 11728), (246, 11776), (289, 11953), (301, 11986), (302, 11989), (305, 12004), (342, 12124), (346, 12139), (352, 12157), (353, 12160), (364, 12193), (372, 12220), (387, 12265), (395, 12289), (401, 12307), (406, 12328), (437, 12424), (462, 12496), (509, 12703), (522, 12754), (551, 12844), (556, 12853), (562, 12871), (569, 12895), (572, 12901), (588, 12961), (601, 13006), (602, 13009), (603, 13015), (620, 13093), (630, 13126), (647, 13201), (707, 13414), (715, 13435), (716, 13438), (719, 13453), (731, 13486), (763, 13588), (784, 13678), (807, 13771), (816, 13825), (817, 13828), (828, 13861), (832, 13876), (848, 13915), (862, 13942), (898, 14080), (914, 14200), (923, 14287), (950, 14443), (952, 14455), (973, 14539), (985, 14578), (1031, 14713),

Gene: Jonghyun_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Jonghyun_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: JorRay_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for JorRay_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Joy99_21 Start: 12045, Stop: 15878, Start Num: 21

Candidate Starts for Joy99_21:

(Start: 21 @12045 has 179 MA's), (Start: 33 @12114 has 1 MA's), (Start: 35 @12135 has 1 MA's), (43, 12201), (78, 12378), (84, 12405), (103, 12477), (106, 12489), (108, 12498), (124, 12570), (143, 12645), (162, 12729), (164, 12738), (168, 12759), (177, 12798), (193, 12876), (212, 12954), (237, 13044), (252, 13119), (275, 13212), (277, 13221), (280, 13233), (282, 13242), (358, 13479), (370, 13518), (382, 13551), (406, 13638), (414, 13662), (440, 13746), (471, 13830), (475, 13842), (479, 13863), (608, 14019), (625, 14100), (640, 14148), (643, 14166), (647, 14187), (654, 14223), (670, 14274), (690, 14331), (711, 14409), (714, 14418), (737, 14496), (744, 14511), (758, 14553), (774, 14607), (831, 14847), (857, 14922), (892, 15033), (918, 15252), (921, 15264), (952, 15447), (953, 15456), (981, 15528), (997, 15558), (1003, 15579), (1045, 15699), (1062, 15771), (1064, 15789), (1065, 15795),

Gene: Juliette_22 Start: 13193, Stop: 17389, Start Num: 22

Candidate Starts for Juliette_22:

(Start: 22 @13193 has 64 MA's), (47, 13391), (99, 13604), (106, 13631), (108, 13640), (124, 13712), (129, 13733), (162, 13871), (164, 13880), (168, 13901), (177, 13940), (190, 14009), (193, 14018), (212, 14096), (214, 14108), (237, 14186), (244, 14216), (249, 14249), (250, 14252), (255, 14273), (291, 14414), (294, 14423), (337, 14555), (341, 14567), (358, 14621), (371, 14660), (382, 14693), (406, 14780), (413, 14801), (461, 14978), (476, 15029), (507, 15188), (572, 15389), (586, 15440), (588, 15449), (601, 15494), (605, 15515), (608, 15521), (641, 15635), (664, 15734), (669, 15746), (672, 15755), (698, 15827), (704, 15860), (711, 15878), (712, 15881), (719, 15908), (758, 16007), (765, 16025), (782, 16100), (829, 16289), (831, 16301), (857, 16376), (876, 16445), (898, 16577), (912, 16691), (952, 16958), (955, 16976), (997, 17087), (998, 17090), (1033, 17189), (1044, 17216), (1045, 17219), (1065, 17315), (1071, 17378),

Gene: Kareem_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Kareem_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Kasen3_16 Start: 11465, Stop: 15478, Start Num: 21

Candidate Starts for Kasen3_16:

(Start: 21 @11465 has 179 MA's), (47, 11666), (75, 11780), (84, 11822), (90, 11852), (124, 11987), (126, 11999), (129, 12008), (174, 12197), (177, 12215), (178, 12218), (183, 12239), (186, 12251), (199, 12323), (212, 12371), (246, 12503), (250, 12527), (269, 12608), (304, 12731), (333, 12815), (344, 12851), (358, 12896), (359, 12902), (393, 13010), (401, 13034), (406, 13055), (478, 13274), (509, 13424), (532, 13511), (571, 13619), (608, 13754), (634, 13865), (640, 13883), (646, 13913), (707, 14135), (717, 14159), (721, 14174), (726, 14195), (737, 14222), (749, 14249), (769, 14309), (790, 14399), (795, 14432), (812, 14495), (823, 14552), (831, 14585), (833, 14594), (942, 15098), (944, 15125), (950, 15155), (952, 15167), (953, 15176), (981, 15245), (1023, 15326), (1040, 15386), (1047, 15404), (1050, 15413),

Gene: Keshu_20 Start: 12188, Stop: 16348, Start Num: 21

Candidate Starts for Keshu_20:

(Start: 21 @12188 has 179 MA's), (Start: 33 @12257 has 1 MA's), (Start: 35 @12278 has 1 MA's), (37, 12284), (43, 12344), (69, 12482), (75, 12506), (79, 12527), (84, 12548), (87, 12569), (122, 12701), (124, 12713), (129, 12734), (143, 12788), (149, 12818), (155, 12839), (162, 12872), (164, 12881), (168, 12902), (177, 12941), (193, 13019), (203, 13061), (212, 13097), (218, 13121), (259, 13295), (269, 13334), (275, 13355), (280, 13376), (282, 13385), (343, 13574), (350, 13598), (358, 13622), (364, 13643), (371, 13661), (382, 13694), (385, 13703), (393, 13736), (394, 13739), (395, 13742), (406, 13781), (409, 13790), (432, 13859), (464, 13970), (474, 14000), (485, 14078), (517, 14198), (524, 14231), (556, 14321), (562, 14339), (572, 14369), (578, 14396), (608, 14501), (613, 14531), (643, 14648), (654, 14705), (659, 14723), (665, 14744), (670, 14756), (691, 14816), (711, 14897), (712, 14900), (739, 14990), (758, 15020), (782, 15113), (802, 15191), (831, 15314), (857, 15389), (940, 15854), (942, 15866), (952, 15935), (953, 15944), (959, 15965), (1029, 16139), (1035, 16157), (1049, 16193), (1053, 16202), (1064, 16268), (1065, 16274), (1067, 16289), (1068, 16301),

Gene: KiSi_20 Start: 11011, Stop: 15084, Start Num: 22

Candidate Starts for KiSi_20:

(Start: 22 @11011 has 64 MA's), (37, 11104), (61, 11263), (64, 11272), (66, 11281), (91, 11374), (110, 11443), (111, 11452), (113, 11464), (115, 11470), (123, 11503), (132, 11539), (146, 11596), (148, 11608), (161, 11662), (167, 11692), (188, 11779), (192, 11794), (202, 11830), (246, 12004), (289, 12187), (293, 12196), (305, 12238), (318, 12280), (336, 12340), (340, 12352), (342, 12358), (346, 12373), (352, 12391), (353, 12394), (364, 12427), (403, 12550), (406, 12562), (408, 12568), (413, 12583), (415, 12589), (472, 12673), (485, 12754), (524, 12907), (558, 13003), (562, 13015), (572, 13045), (586, 13096), (591, 13117), (600, 13147), (602, 13153), (608, 13177), (620, 13237), (634, 13288), (645, 13333), (659, 13399), (670, 13432), (690, 13489), (711, 13567), (712, 13570), (737, 13654), (749, 13681), (758, 13711), (774, 13765), (782, 13804), (831, 14005), (857, 14080), (914, 14365), (918, 14422), (952, 14623), (983, 14737), (1045, 14914), (1062, 14998), (1065, 15019),

Gene: Kratio_18 Start: 11868, Stop: 15977, Start Num: 20

Candidate Starts for Kratio_18:

(Start: 20 @11868 has 36 MA's), (Start: 35 @11961 has 1 MA's), (45, 12039), (46, 12063), (58, 12123), (79, 12207), (95, 12273), (108, 12321), (122, 12381), (124, 12393), (129, 12414), (143, 12468), (154, 12516), (164, 12561), (168, 12582), (193, 12699), (212, 12777), (218, 12801), (237, 12867), (252, 12942), (275, 13035), (282, 13065), (338, 13239), (341, 13248), (350, 13278), (358, 13302), (364, 13323), (385, 13383), (406, 13461), (409, 13470), (434, 13548), (460, 13614), (472, 13656), (488, 13749), (494, 13770), (500, 13803), (518, 13869), (524, 13890), (541, 13944), (544, 13953), (551, 13971), (559, 13989), (562, 13998), (572, 14028), (581, 14064), (605, 14154), (608, 14160), (611, 14178), (638, 14283), (650, 14349), (711, 14544), (719, 14574), (730, 14607), (749, 14658), (753, 14679), (760, 14694), (761, 14700), (783, 14784), (797, 14832), (806, 14871), (819, 14931), (829, 14964), (834, 14985), (842, 15009), (878, 15105), (895, 15177), (940, 15492), (941, 15501), (942, 15504), (948, 15546), (950, 15561), (952, 15573), (959, 15603), (981, 15654), (989, 15672), (1036, 15789), (1045, 15813), (1049, 15825), (1066, 15906), (1068, 15930), (1073, 15969),

Gene: Kraw_22 Start: 13237, Stop: 17412, Start Num: 22

Candidate Starts for Kraw_22:

(15, 13201), (Start: 22 @13237 has 64 MA's), (47, 13435), (106, 13675), (108, 13684), (129, 13777), (154, 13879), (164, 13924), (177, 13984), (193, 14062), (212, 14140), (235, 14227), (237, 14230), (244, 14260), (249, 14293), (255, 14317), (276, 14401), (283, 14431), (291, 14458), (328, 14566), (334, 14587), (337, 14599), (341, 14611), (358, 14665), (406, 14824), (413, 14845), (440, 14953), (476, 15073), (564, 15415), (572, 15433), (586, 15484), (588, 15493), (601, 15538), (605, 15559), (641, 15679), (664, 15778), (669, 15790), (672, 15799), (698, 15871), (711, 15922), (712, 15925), (719, 15952), (758, 16051), (765, 16069), (782, 16144), (829, 16333), (831, 16345), (857, 16420), (870, 16450), (898, 16606), (914, 16726), (926, 16834), (952, 16984), (997, 17113), (998, 17116), (1033, 17215), (1044, 17242), (1065, 17338), (1071, 17401),

Gene: Krueger_20 Start: 11051, Stop: 15055, Start Num: 22

Candidate Starts for Krueger_20:

(Start: 22 @11051 has 64 MA's), (37, 11144), (49, 11249), (61, 11303), (66, 11321), (72, 11339), (80, 11369), (86, 11396), (87, 11402), (102, 11447), (123, 11543), (127, 11561), (128, 11564), (158, 11678), (161, 11693), (188, 11810), (192, 11825), (213, 11906), (229, 11966), (232, 11975), (246, 12035), (289, 12218), (292, 12224), (308, 12281), (336, 12371), (340, 12383), (342, 12389), (346, 12404), (353, 12425), (359, 12443), (384, 12518), (394, 12551), (403, 12581), (406, 12593), (413, 12614), (442, 12653), (470, 12698), (475, 12713), (507, 12875), (524, 12938), (532, 12965), (559, 13037), (572, 13076), (586, 13127), (591, 13148), (600, 13178), (602, 13184), (608, 13208), (618, 13259), (633, 13313), (643, 13355), (647, 13376), (654, 13412), (670, 13463), (711, 13604), (712, 13607), (737, 13691), (749, 13718), (774, 13802), (831, 14042), (857, 14117), (940, 14555), (941, 14564), (952, 14636), (953, 14645), (981, 14720), (997, 14750), (1005, 14771), (1045, 14888), (1062, 14963), (1067, 15002), (1068, 15014),

Gene: Larva_19 Start: 11980, Stop: 16092, Start Num: 20

Candidate Starts for Larva_19:

(Start: 20 @11980 has 36 MA's), (Start: 35 @12073 has 1 MA's), (45, 12151), (46, 12175), (58, 12235), (79, 12319), (108, 12433), (122, 12493), (124, 12505), (129, 12526), (143, 12580), (154, 12628), (164, 12673), (168, 12694), (193, 12811), (212, 12889), (218, 12913), (237, 12979), (252, 13054), (275, 13147), (282, 13177), (338, 13351), (350, 13390), (358, 13414), (364, 13435), (385, 13495), (406, 13573), (434, 13660), (460, 13726), (472, 13768), (475, 13777), (488, 13861), (494, 13882), (500, 13915), (518, 13981), (524, 14002), (541, 14056), (544, 14065), (551, 14083), (562, 14110), (572, 14140), (581, 14176), (605, 14266), (608, 14272), (611, 14290), (638, 14395), (650, 14461), (711, 14656), (719, 14686), (730, 14719), (749, 14770), (753, 14791), (760, 14806), (761, 14812), (783, 14896), (797, 14944), (806, 14983), (819, 15043), (829, 15076), (834, 15097), (842, 15121), (853, 15151), (878, 15217), (895, 15289), (940, 15604), (941, 15613), (942, 15616), (944, 15643), (948, 15658), (950, 15673), (952, 15685), (959, 15715), (981, 15769), (989, 15787), (1023, 15856), (1036, 15904), (1045, 15928), (1049, 15940), (1053, 15949), (1066, 16021), (1068, 16045), (1073, 16084),

Gene: LastHope_21 Start: 11090, Stop: 15217, Start Num: 22

Candidate Starts for LastHope_21:

(15, 11042), (Start: 22 @11090 has 64 MA's), (37, 11183), (55, 11315), (60, 11339), (70, 11369), (75, 11390), (77, 11402), (80, 11408), (86, 11435), (94, 11462), (115, 11549), (123, 11582), (127, 11600), (128, 11603), (139, 11645), (152, 11693), (181, 11819), (188, 11861), (192, 11876), (202, 11912), (221, 11984), (246, 12086), (280, 12224), (289, 12269), (303, 12311), (304, 12314), (305, 12320), (308, 12332), (318, 12362), (336, 12422), (342, 12440), (346, 12455), (352, 12473), (353, 12476), (364, 12509), (390, 12590), (395, 12605), (406, 12644), (413, 12665), (471, 12842), (475, 12854), (482, 12914), (493, 12956), (524, 13079), (531, 13103), (551, 13160), (558, 13175), (559, 13178), (578, 13244), (581, 13253), (588, 13277), (602, 13325), (618, 13400), (622, 13418), (640, 13478), (645, 13505), (647, 13517), (654, 13553), (659, 13571), (674, 13616), (685, 13646), (691, 13664), (711, 13745), (712, 13748), (737, 13832), (744, 13847), (757, 13886), (758, 13889), (782, 13982), (799, 14048), (831, 14183), (914, 14534), (940, 14705), (952, 14786), (959, 14816), (981, 14870), (1045, 15038), (1062, 15110), (1064, 15128), (1065, 15134),

Gene: LaterM_21 Start: 12043, Stop: 15876, Start Num: 21

Candidate Starts for LaterM_21:

(Start: 21 @12043 has 179 MA's), (Start: 33 @12112 has 1 MA's), (43, 12199), (78, 12379), (84, 12406), (106, 12490), (108, 12499), (122, 12559), (124, 12571), (143, 12646), (152, 12688), (162, 12730), (164, 12739), (168, 12760), (177, 12799), (193, 12877), (212, 12955), (252, 13120), (275, 13213), (280, 13234), (282, 13243), (358, 13480), (365, 13504), (370, 13519), (382, 13552), (406, 13639), (440, 13747), (471, 13831), (475, 13843), (479, 13864), (493, 13945), (608, 14020), (625, 14101), (629, 14110), (640, 14149), (643, 14167), (647, 14188), (654, 14224), (670, 14275), (690, 14332), (711, 14410), (714, 14419), (737, 14497), (744, 14512), (758, 14554), (774, 14608), (831, 14848), (857, 14923), (892, 15034), (918, 15253), (940, 15367), (952, 15448), (953, 15457), (981, 15529), (997, 15559), (1003, 15580), (1045, 15697), (1062, 15769), (1065, 15793),

Gene: Lavahound_19 Start: 11863, Stop: 16011, Start Num: 21

Candidate Starts for Lavahound_19:

(Start: 21 @11863 has 179 MA's), (Start: 33 @11932 has 1 MA's), (54, 12094), (78, 12196), (79, 12202), (84, 12223), (122, 12376), (124, 12388), (143, 12463), (164, 12556), (168, 12577), (177, 12616), (193, 12694), (212, 12772), (218, 12796), (233, 12850), (237, 12862), (252, 12937), (275, 13030), (297, 13111), (321, 13174), (336, 13228), (343, 13249), (346, 13261), (358, 13297), (364, 13318), (373, 13345), (382, 13369), (388, 13390), (393, 13411), (406, 13456), (448, 13582), (460, 13630), (477, 13690), (478, 13696), (494, 13786), (518, 13885), (522, 13897), (537, 13948), (539, 13954), (559, 14005), (572, 14044), (576, 14065), (608, 14176), (620, 14236), (630, 14269), (634, 14287), (640, 14305), (643, 14323), (646, 14335), (654, 14380), (670, 14431), (690, 14479), (711, 14557), (737, 14644), (739, 14650), (744, 14659), (762, 14716), (764, 14719), (782, 14794), (799, 14860), (831, 14995), (852, 15055), (857, 15070), (860, 15076), (941, 15526), (952, 15598), (953, 15607), (983, 15694), (1045, 15847), (1065, 15946), (1068, 15973), (1069, 15985),

Gene: LeMond_20 Start: 11082, Stop: 15155, Start Num: 22

Candidate Starts for LeMond_20:

(Start: 22 @11082 has 64 MA's), (37, 11175), (55, 11307), (91, 11445), (111, 11523), (113, 11535), (115, 11541), (123, 11574), (132, 11610), (146, 11667), (148, 11679), (161, 11733), (167, 11763), (188, 11850), (192, 11865), (202, 11901), (226, 11994), (246, 12075), (289, 12258), (293, 12267), (305, 12309), (318, 12351), (336, 12411), (340, 12423), (342, 12429), (346, 12444), (353, 12465), (364, 12498), (403, 12621), (406, 12633), (408, 12639), (413, 12654), (415, 12660), (472, 12744), (485, 12825), (524, 12978), (558, 13074), (572, 13116), (586, 13167), (591, 13188), (600, 13218), (602, 13224), (608, 13248), (620, 13308), (634, 13359), (645, 13404), (647, 13416), (659, 13470), (670, 13503), (690, 13560), (711, 13638), (712, 13641), (737, 13725), (758, 13782), (774, 13836), (782, 13875), (809, 13980), (831, 14076), (857, 14151), (892, 14274), (918, 14493), (952, 14694),

(983, 14808), (1045, 14985), (1062, 15069), (1065, 15090),

Gene: Lea83_20 Start: 12197, Stop: 16345, Start Num: 21

Candidate Starts for Lea83_20:

(Start: 21 @12197 has 179 MA's), (Start: 33 @12266 has 1 MA's), (Start: 35 @12287 has 1 MA's), (37, 12293), (43, 12353), (69, 12491), (79, 12536), (84, 12557), (95, 12602), (122, 12710), (124, 12722), (129, 12743), (143, 12797), (149, 12827), (155, 12848), (162, 12881), (164, 12890), (168, 12911), (177, 12950), (193, 13028), (203, 13070), (212, 13106), (218, 13130), (259, 13304), (275, 13364), (280, 13385), (282, 13394), (336, 13562), (343, 13583), (350, 13607), (358, 13631), (364, 13652), (371, 13670), (382, 13703), (393, 13745), (394, 13748), (395, 13751), (406, 13790), (409, 13799), (432, 13868), (464, 13979), (474, 14009), (517, 14207), (524, 14240), (556, 14330), (562, 14348), (572, 14378), (578, 14405), (634, 14621), (643, 14657), (654, 14714), (659, 14732), (670, 14765), (673, 14777), (691, 14825), (711, 14906), (712, 14909), (758, 15026), (782, 15119), (802, 15197), (826, 15296), (831, 15320), (857, 15395), (940, 15854), (942, 15866), (952, 15935), (953, 15944), (1029, 16136), (1035, 16154), (1049, 16190), (1053, 16199), (1064, 16265), (1065, 16271), (1067, 16286), (1068, 16298),

Gene: Lebo14_22 Start: 13327, Stop: 17505, Start Num: 22

Candidate Starts for Lebo14_22:

(15, 13291), (Start: 22 @13327 has 64 MA's), (47, 13525), (106, 13765), (108, 13774), (129, 13867), (164, 14014), (168, 14035), (177, 14074), (178, 14077), (193, 14152), (212, 14230), (235, 14317), (237, 14320), (244, 14350), (249, 14383), (255, 14407), (276, 14491), (283, 14521), (291, 14548), (328, 14656), (334, 14677), (337, 14689), (341, 14701), (358, 14755), (406, 14914), (413, 14935), (440, 15043), (476, 15163), (572, 15523), (586, 15574), (588, 15583), (601, 15628), (605, 15649), (664, 15868), (669, 15880), (672, 15889), (698, 15961), (711, 16012), (712, 16015), (719, 16042), (731, 16078), (758, 16141), (765, 16159), (782, 16234), (829, 16423), (831, 16435), (857, 16510), (898, 16696), (914, 16816), (926, 16924), (952, 17077), (989, 17197), (997, 17206), (998, 17209), (1033, 17308), (1044, 17335), (1065, 17431), (1071, 17494),

Gene: Lemuria_16 Start: 10811, Stop: 14821, Start Num: 22

Candidate Starts for Lemuria_16:

(Start: 22 @10811 has 64 MA's), (37, 10907), (47, 11012), (50, 11021), (82, 11144), (87, 11168), (88, 11171), (99, 11204), (101, 11207), (111, 11258), (118, 11285), (127, 11327), (139, 11372), (149, 11408), (151, 11417), (152, 11420), (153, 11423), (167, 11489), (181, 11546), (188, 11588), (202, 11639), (217, 11699), (221, 11711), (223, 11723), (225, 11732), (246, 11813), (279, 11942), (289, 11990), (300, 12020), (303, 12032), (305, 12041), (318, 12083), (336, 12143), (342, 12161), (346, 12176), (353, 12197), (364, 12230), (372, 12257), (376, 12269), (387, 12302), (395, 12326), (401, 12344), (406, 12365), (437, 12461), (462, 12533), (522, 12791), (531, 12824), (562, 12908), (571, 12935), (580, 12968), (588, 12998), (600, 13040), (602, 13046), (620, 13130), (635, 13184), (659, 13292), (707, 13451), (716, 13475), (719, 13490), (726, 13514), (763, 13625), (783, 13712), (784, 13715), (804, 13802), (807, 13811), (817, 13868), (828, 13901), (848, 13955), (862, 13982), (895, 14096), (923, 14324), (935, 14390), (942, 14426), (950, 14483), (952, 14495), (973, 14573), (985, 14612), (1001, 14639), (1031, 14747),

Gene: Leston_19 Start: 12267, Stop: 16376, Start Num: 20

Candidate Starts for Leston_19:

(Start: 20 @12267 has 36 MA's), (58, 12525), (79, 12609), (95, 12675), (108, 12723), (122, 12783), (124, 12795), (129, 12816), (143, 12870), (149, 12900), (164, 12963), (168, 12984), (182, 13041), (193, 13101), (212, 13179), (218, 13203), (229, 13245), (239, 13278), (275, 13437), (280, 13458), (310, 13536), (333, 13599), (337, 13614), (338, 13617), (341, 13626), (343, 13632), (346, 13644), (358, 13680), (363, 13698), (395, 13800), (406, 13839), (460, 13992), (472, 14034), (478, 14058), (494, 14148), (500, 14181), (518, 14247), (541, 14322), (544, 14331), (551, 14349), (562, 14376), (584, 14454), (608, 14538), (638, 14661), (650, 14727), (687, 14829), (711, 14922), (719, 14952),

(727, 14979), (730, 14985), (749, 15036), (753, 15057), (760, 15072), (761, 15078), (783, 15162), (794, 15192), (797, 15210), (806, 15249), (819, 15309), (829, 15342), (834, 15363), (842, 15387), (853, 15420), (878, 15504), (895, 15576), (940, 15885), (948, 15939), (950, 15954), (952, 15966), (959, 15996), (1036, 16182), (1045, 16206), (1049, 16218), (1066, 16305), (1068, 16329),

Gene: Liefie_16 Start: 11463, Stop: 15476, Start Num: 21

Candidate Starts for Liefie_16:

(Start: 21 @11463 has 179 MA's), (47, 11664), (73, 11766), (75, 11778), (84, 11820), (87, 11841), (90, 11850), (124, 11985), (126, 11997), (129, 12006), (174, 12195), (177, 12213), (178, 12216), (183, 12237), (186, 12249), (199, 12321), (212, 12369), (246, 12501), (250, 12525), (269, 12606), (304, 12729), (333, 12813), (344, 12849), (358, 12894), (359, 12900), (393, 13008), (401, 13032), (406, 13053), (478, 13272), (509, 13422), (532, 13509), (571, 13617), (608, 13752), (633, 13857), (634, 13863), (640, 13881), (646, 13911), (707, 14133), (717, 14157), (721, 14172), (726, 14193), (749, 14247), (769, 14307), (790, 14397), (795, 14430), (812, 14493), (823, 14550), (831, 14583), (833, 14592), (942, 15096), (944, 15123), (950, 15153), (952, 15165), (953, 15174), (981, 15243), (1023, 15324), (1040, 15384), (1047, 15402), (1050, 15411),

Gene: LilDirt_18 Start: 11997, Stop: 16103, Start Num: 20

Candidate Starts for LilDirt_18:

(Start: 20 @11997 has 36 MA's), (Start: 35 @12090 has 1 MA's), (45, 12168), (46, 12192), (58, 12252), (79, 12336), (82, 12348), (108, 12450), (122, 12510), (124, 12522), (129, 12543), (143, 12597), (154, 12645), (164, 12690), (168, 12711), (193, 12828), (212, 12906), (218, 12930), (237, 12996), (252, 13071), (275, 13164), (282, 13194), (338, 13368), (341, 13377), (350, 13407), (358, 13431), (364, 13452), (385, 13512), (406, 13590), (409, 13599), (434, 13677), (460, 13743), (472, 13785), (475, 13794), (488, 13878), (494, 13899), (500, 13932), (518, 13998), (524, 14019), (541, 14073), (544, 14082), (551, 14100), (559, 14118), (562, 14127), (572, 14157), (581, 14193), (597, 14247), (605, 14283), (608, 14289), (611, 14307), (638, 14412), (650, 14478), (711, 14673), (719, 14703), (730, 14736), (749, 14787), (753, 14808), (760, 14823), (761, 14829), (783, 14913), (797, 14961), (806, 15000), (819, 15060), (829, 15093), (834, 15114), (842, 15138), (853, 15168), (878, 15234), (895, 15306), (940, 15621), (941, 15630), (942, 15633), (948, 15675), (952, 15702), (959, 15732), (981, 15783), (989, 15801), (1023, 15867), (1036, 15915), (1045, 15939), (1049, 15951), (1066, 16032), (1068, 16056), (1073, 16095),

Gene: LilPharaoh_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for LilPharaoh_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: LindNT_21 Start: 12047, Stop: 15883, Start Num: 21

Candidate Starts for LindNT_21:

(Start: 21 @12047 has 179 MA's), (Start: 33 @12116 has 1 MA's), (43, 12203), (78, 12383), (84, 12410), (108, 12503), (122, 12563), (124, 12575), (143, 12650), (155, 12701), (164, 12743), (168, 12764), (177, 12803), (193, 12881), (212, 12959), (218, 12983), (252, 13124), (275, 13217), (277, 13226), (280, 13238), (282, 13247), (358, 13484), (365, 13508), (370, 13523), (382, 13556), (406, 13643), (414, 13667), (440, 13751), (471, 13835), (475, 13847), (479, 13868), (493, 13949), (608,

14024), (625, 14105), (640, 14153), (643, 14171), (646, 14183), (647, 14192), (654, 14228), (670, 14279), (690, 14336), (711, 14414), (714, 14423), (737, 14501), (744, 14516), (758, 14558), (774, 14612), (831, 14852), (857, 14927), (892, 15038), (918, 15257), (921, 15269), (940, 15371), (952, 15452), (953, 15461), (981, 15533), (997, 15563), (1003, 15584), (1045, 15704), (1062, 15776), (1064, 15794), (1065, 15800),

Gene: Llorens_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Llorens_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: LongHai_20 Start: 11740, Stop: 15189, Start Num: 89

Candidate Starts for LongHai_20:

(Start: 89 @11740 has 2 MA's), (94, 11755), (107, 11803), (108, 11806), (119, 11851), (147, 11974), (153, 11995), (227, 12301), (230, 12313), (237, 12334), (254, 12418), (267, 12472), (269, 12481), (289, 12568), (293, 12577), (305, 12619), (325, 12664), (329, 12676), (335, 12697), (342, 12721), (359, 12775), (384, 12850), (387, 12862), (393, 12886), (417, 12973), (438, 13030), (465, 13099), (479, 13153), (563, 13309), (574, 13348), (578, 13360), (597, 13423), (608, 13465), (611, 13483), (633, 13570), (640, 13594), (645, 13621), (647, 13633), (661, 13699), (675, 13741), (681, 13750), (700, 13843), (714, 13873), (724, 13909), (734, 13939), (737, 13957), (749, 13984), (750, 13987), (767, 14038), (768, 14041), (769, 14044), (790, 14134), (800, 14182), (803, 14197), (807, 14215), (812, 14230), (824, 14290), (831, 14323), (833, 14332), (836, 14341), (852, 14377), (858, 14392), (909, 14587), (939, 14782), (953, 14878), (956, 14896), (976, 14938), (978, 14944), (990, 14971), (1026, 15073), (1028, 15082), (1041, 15121),

Gene: LouisV14_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for LouisV14_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Lunahalos_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Lunahalos_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774,

14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: MOOREtheMARYer_16 Start: 11710, Stop: 15720, Start Num: 22

Candidate Starts for MOOREtheMARYer_16:

(Start: 22 @11710 has 64 MA's), (37, 11806), (66, 11986), (75, 12016), (81, 12040), (86, 12061), (91, 12079), (115, 12175), (117, 12181), (121, 12196), (123, 12208), (127, 12226), (138, 12268), (139, 12271), (149, 12307), (152, 12319), (159, 12349), (162, 12361), (164, 12370), (181, 12445), (188, 12487), (192, 12502), (202, 12538), (207, 12553), (218, 12601), (221, 12610), (246, 12712), (265, 12796), (281, 12853), (289, 12895), (301, 12928), (302, 12931), (303, 12937), (305, 12946), (318, 12988), (340, 13060), (342, 13066), (346, 13081), (352, 13099), (353, 13102), (372, 13162), (387, 13207), (395, 13231), (401, 13249), (406, 13270), (414, 13294), (416, 13306), (417, 13309), (437, 13366), (462, 13438), (475, 13480), (509, 13645), (532, 13732), (541, 13759), (549, 13780), (572, 13843), (586, 13894), (602, 13951), (608, 13975), (618, 14026), (630, 14068), (659, 14197), (694, 14287), (696, 14302), (697, 14305), (716, 14371), (719, 14386), (739, 14452), (759, 14506), (763, 14521), (781, 14602), (784, 14611), (807, 14704), (817, 14761), (828, 14794), (848, 14848), (854, 14869), (942, 15325), (944, 15352), (949, 15379), (952, 15394), (953, 15403), (975, 15490), (1027, 15628), (1031, 15646), (1037, 15661),

Gene: MZKinsey_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for MZKinsey_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: MacKat_21 Start: 12093, Stop: 15926, Start Num: 21

Candidate Starts for MacKat_21:

(Start: 21 @12093 has 179 MA's), (Start: 33 @12162 has 1 MA's), (43, 12249), (78, 12426), (84, 12453), (106, 12537), (108, 12546), (124, 12618), (143, 12693), (162, 12777), (164, 12786), (168, 12807), (177, 12846), (193, 12924), (212, 13002), (237, 13092), (252, 13167), (275, 13260), (277, 13269), (280, 13281), (282, 13290), (358, 13527), (370, 13566), (382, 13599), (406, 13686), (414, 13710), (440, 13794), (471, 13878), (475, 13890), (479, 13911), (608, 14067), (625, 14148), (633, 14172), (640, 14196), (643, 14214), (647, 14235), (654, 14271), (670, 14322), (690, 14379), (711, 14457), (714, 14466), (737, 14544), (744, 14559), (758, 14601), (774, 14655), (831, 14895), (857, 14970), (892, 15081), (918, 15300), (921, 15312), (952, 15495), (953, 15504), (981, 15576), (997, 15606), (1003, 15627), (1045, 15747), (1062, 15819), (1064, 15837), (1065, 15843),

Gene: MacnCheese_21 Start: 12433, Stop: 16590, Start Num: 21

Candidate Starts for MacnCheese_21:

(6, 12283), (Start: 21 @12433 has 179 MA's), (Start: 35 @12523 has 1 MA's), (37, 12529), (43, 12589), (75, 12751), (91, 12826), (106, 12877), (108, 12886), (122, 12946), (124, 12958), (129, 12979), (143, 13033), (164, 13126), (168, 13147), (177, 13186), (183, 13210), (193, 13264), (204, 13309), (212, 13342), (218, 13366), (259, 13540), (280, 13621), (336, 13798), (350, 13843), (358, 13867), (364, 13888), (381, 13936), (393, 13981), (401, 14005), (406, 14026), (432, 14104), (455, 14182), (472, 14242), (474, 14245), (477, 14260), (524, 14476), (539, 14524), (556, 14566), (562, 14584), (572, 14614), (576, 14635), (580, 14644), (588, 14674), (608, 14746), (613, 14776), (643, 14893), (647,

14914), (654, 14950), (659, 14968), (670, 15001), (686, 15046), (691, 15061), (711, 15142), (712, 15145), (733, 15214), (737, 15229), (739, 15235), (744, 15244), (774, 15340), (782, 15379), (826, 15556), (831, 15580), (857, 15655), (934, 16069), (940, 16099), (941, 16108), (942, 16111), (953, 16189), (956, 16207), (959, 16210), (1029, 16384), (1035, 16402), (1053, 16447), (1058, 16480), (1065, 16516), (1067, 16531), (1068, 16543),

Gene: Maco6_17 Start: 10697, Stop: 14146, Start Num: 89

Candidate Starts for Maco6_17:

(Start: 89 @10697 has 2 MA's), (94, 10712), (107, 10760), (108, 10763), (119, 10808), (147, 10931), (227, 11258), (230, 11270), (237, 11291), (254, 11375), (267, 11429), (269, 11438), (283, 11492), (285, 11501), (289, 11525), (293, 11534), (305, 11576), (325, 11621), (329, 11633), (335, 11654), (342, 11678), (351, 11708), (359, 11732), (384, 11807), (387, 11819), (393, 11843), (396, 11852), (417, 11930), (438, 11987), (465, 12056), (564, 12272), (578, 12317), (611, 12440), (631, 12518), (640, 12551), (645, 12578), (647, 12590), (675, 12698), (681, 12707), (700, 12800), (714, 12830), (724, 12866), (734, 12896), (737, 12914), (749, 12941), (750, 12944), (768, 12998), (769, 13001), (790, 13091), (800, 13139), (803, 13154), (807, 13172), (812, 13187), (824, 13247), (831, 13280), (833, 13289), (836, 13298), (852, 13334), (858, 13349), (891, 13421), (909, 13544), (939, 13739), (953, 13835), (956, 13853), (976, 13895), (978, 13901), (990, 13928), (1026, 14030), (1028, 14039), (1041, 14078),

Gene: Maliketh_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Maliketh_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Malthus_22 Start: 13237, Stop: 17412, Start Num: 22

Candidate Starts for Malthus_22:

(15, 13201), (Start: 22 @13237 has 64 MA's), (47, 13435), (106, 13675), (108, 13684), (129, 13777), (154, 13879), (164, 13924), (177, 13984), (193, 14062), (212, 14140), (235, 14227), (237, 14230), (244, 14260), (249, 14293), (255, 14317), (276, 14401), (283, 14431), (291, 14458), (328, 14566), (334, 14587), (337, 14599), (341, 14611), (358, 14665), (406, 14824), (413, 14845), (440, 14953), (476, 15073), (564, 15415), (572, 15433), (586, 15484), (588, 15493), (601, 15538), (605, 15559), (641, 15679), (664, 15778), (669, 15790), (672, 15799), (698, 15871), (711, 15922), (712, 15925), (719, 15952), (758, 16051), (765, 16069), (782, 16144), (829, 16333), (831, 16345), (857, 16420), (870, 16450), (898, 16606), (914, 16726), (926, 16834), (952, 16984), (997, 17113), (998, 17116), (1033, 17215), (1044, 17242), (1065, 17338), (1071, 17401),

Gene: Marcoliusprime_17 Start: 10116, Stop: 13784, Start Num: 20

Candidate Starts for Marcoliusprime_17:

(Start: 20 @10116 has 36 MA's), (Start: 33 @10188 has 1 MA's), (83, 10422), (103, 10473), (124, 10566), (129, 10587), (143, 10641), (164, 10734), (168, 10755), (174, 10776), (175, 10782), (193, 10872), (203, 10914), (212, 10950), (221, 10983), (223, 10995), (230, 11019), (237, 11040), (243, 11064), (244, 11070), (250, 11106), (252, 11115), (259, 11148), (261, 11160), (269, 11187), (333, 11370), (336, 11382), (338, 11388), (344, 11406), (350, 11427), (358, 11451), (365, 11475), (395, 11484), (400, 11499), (411, 11511), (439, 11544), (460, 11592), (490, 11733), (491, 11739), (498, 11775), (508, 11802), (514, 11820), (562, 11946), (587, 12012), (607, 12066), (615, 12099), (620,

12120), (630, 12144), (638, 12174), (642, 12195), (718, 12417), (751, 12510), (777, 12588), (811, 12711), (843, 12816), (867, 12864), (933, 13251), (940, 13281), (941, 13290), (944, 13320), (1000, 13485), (1045, 13614), (1065, 13707),

Gene: MarkPhew_21 Start: 10973, Stop: 15046, Start Num: 22

Candidate Starts for MarkPhew_21:

(4, 10757), (15, 10937), (Start: 22 @10973 has 64 MA's), (37, 11066), (55, 11198), (61, 11225), (64, 11234), (81, 11297), (91, 11336), (96, 11351), (111, 11414), (113, 11426), (123, 11465), (146, 11558), (148, 11570), (161, 11624), (188, 11741), (192, 11756), (202, 11792), (217, 11852), (218, 11855), (229, 11897), (246, 11966), (289, 12149), (305, 12200), (308, 12212), (336, 12302), (340, 12314), (342, 12320), (346, 12335), (359, 12374), (403, 12512), (406, 12524), (408, 12530), (413, 12545), (415, 12551), (524, 12869), (539, 12917), (544, 12932), (562, 12977), (572, 13007), (586, 13058), (591, 13079), (602, 13115), (608, 13139), (647, 13307), (654, 13343), (659, 13361), (670, 13394), (690, 13451), (711, 13529), (712, 13532), (737, 13616), (774, 13727), (782, 13766), (809, 13871), (831, 13967), (857, 14042), (918, 14390), (952, 14588), (1045, 14876), (1049, 14888), (1062, 14960), (1065, 14981),

Gene: Marmie_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Marmie_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Marshawn_22 Start: 11657, Stop: 15661, Start Num: 22

Candidate Starts for Marshawn_22:

(1, 11312), (4, 11444), (15, 11621), (Start: 22 @11657 has 64 MA's), (27, 11681), (37, 11750), (61, 11909), (64, 11918), (80, 11975), (110, 12089), (111, 12098), (113, 12110), (121, 12137), (123, 12149), (128, 12170), (147, 12251), (161, 12308), (167, 12338), (188, 12425), (192, 12440), (195, 12449), (202, 12476), (218, 12539), (221, 12548), (246, 12650), (261, 12725), (289, 12833), (301, 12866), (313, 12908), (318, 12926), (336, 12986), (340, 12998), (342, 13004), (346, 13019), (352, 13037), (353, 13040), (359, 13058), (364, 13073), (374, 13109), (390, 13154), (393, 13163), (398, 13178), (403, 13196), (406, 13208), (408, 13214), (413, 13229), (415, 13235), (474, 13322), (493, 13430), (524, 13553), (544, 13616), (562, 13661), (572, 13691), (586, 13742), (602, 13799), (608, 13823), (625, 13904), (640, 13952), (647, 13991), (654, 14027), (670, 14078), (711, 14219), (712, 14222), (737, 14306), (744, 14321), (758, 14363), (782, 14456), (831, 14657), (857, 14732), (880, 14810), (914, 15026), (918, 15083), (942, 15212), (944, 15239), (952, 15281), (981, 15371), (983, 15383), (1020, 15422), (1056, 15548), (1060, 15572), (1062, 15575), (1065, 15596),

Gene: McMater_21 Start: 11128, Stop: 15282, Start Num: 22

Candidate Starts for McMater_21:

(15, 11086), (Start: 22 @11128 has 64 MA's), (37, 11221), (61, 11380), (70, 11407), (93, 11497), (94, 11500), (115, 11587), (142, 11695), (158, 11764), (162, 11782), (181, 11866), (188, 11908), (192, 11923), (195, 11932), (202, 11959), (218, 12022), (229, 12064), (246, 12133), (259, 12196), (260, 12205), (289, 12319), (292, 12325), (303, 12361), (305, 12370), (308, 12382), (313, 12394), (318, 12412), (336, 12472), (340, 12484), (342, 12490), (346, 12505), (352, 12523), (353, 12526), (359, 12544), (364, 12559), (376, 12598), (395, 12655), (398, 12664), (406, 12694), (413, 12715), (420, 12745), (433, 12778), (462, 12862), (471, 12892), (475, 12904), (493, 13006), (513, 13084), (524,

13129), (531, 13153), (550, 13207), (551, 13210), (558, 13225), (572, 13267), (578, 13294), (581, 13303), (586, 13318), (587, 13324), (588, 13327), (622, 13468), (633, 13504), (634, 13510), (640, 13528), (645, 13555), (647, 13567), (659, 13621), (670, 13654), (691, 13714), (711, 13795), (712, 13798), (737, 13882), (744, 13897), (782, 14032), (799, 14098), (831, 14233), (914, 14584), (952, 14839), (953, 14848), (972, 14914), (1045, 15109), (1053, 15130), (1062, 15181), (1064, 15199), (1065, 15205), (1069, 15244),

Gene: Mdavu_17 Start: 11315, Stop: 15448, Start Num: 21

Candidate Starts for Mdavu_17:

(14, 11276), (Start: 21 @11315 has 179 MA's), (Start: 33 @11384 has 1 MA's), (43, 11471), (54, 11549), (79, 11657), (84, 11678), (91, 11711), (124, 11843), (127, 11858), (129, 11864), (143, 11918), (149, 11948), (164, 12011), (168, 12032), (177, 12071), (193, 12149), (212, 12227), (218, 12251), (275, 12485), (297, 12566), (319, 12626), (336, 12683), (347, 12719), (358, 12752), (365, 12776), (387, 12842), (390, 12851), (406, 12911), (440, 13019), (460, 13064), (494, 13220), (522, 13331), (524, 13340), (529, 13352), (544, 13403), (551, 13421), (562, 13448), (572, 13478), (599, 13571), (608, 13610), (647, 13778), (659, 13832), (670, 13865), (688, 13910), (711, 13991), (712, 13994), (737, 14078), (739, 14084), (744, 14093), (758, 14135), (770, 14171), (774, 14189), (782, 14228), (798, 14288), (831, 14429), (852, 14489), (857, 14504), (921, 14846), (952, 15035), (953, 15044), (976, 15107), (1065, 15383),

Gene: MeaningOfLife_21 Start: 12052, Stop: 15885, Start Num: 21

Candidate Starts for MeaningOfLife_21:

(Start: 21 @12052 has 179 MA's), (Start: 33 @12121 has 1 MA's), (Start: 35 @12142 has 1 MA's), (43, 12208), (78, 12385), (84, 12412), (103, 12484), (106, 12496), (108, 12505), (124, 12577), (143, 12652), (162, 12736), (164, 12745), (168, 12766), (177, 12805), (193, 12883), (212, 12961), (237, 13051), (252, 13126), (275, 13219), (277, 13228), (280, 13240), (282, 13249), (358, 13486), (370, 13525), (382, 13558), (406, 13645), (414, 13669), (440, 13753), (471, 13837), (475, 13849), (479, 13870), (608, 14026), (625, 14107), (640, 14155), (643, 14173), (647, 14194), (654, 14230), (670, 14281), (690, 14338), (711, 14416), (714, 14425), (737, 14503), (744, 14518), (758, 14560), (774, 14614), (831, 14854), (857, 14929), (892, 15040), (918, 15259), (921, 15271), (952, 15454), (953, 15463), (981, 15535), (997, 15565), (1003, 15586), (1045, 15706), (1062, 15778), (1064, 15796), (1065, 15802),

Gene: Megsy_21 Start: 12050, Stop: 15886, Start Num: 21

Candidate Starts for Megsy_21:

(Start: 21 @12050 has 179 MA's), (Start: 33 @12119 has 1 MA's), (43, 12206), (78, 12386), (84, 12413), (108, 12506), (122, 12566), (124, 12578), (143, 12653), (155, 12704), (164, 12746), (168, 12767), (177, 12806), (193, 12884), (212, 12962), (218, 12986), (252, 13127), (275, 13220), (277, 13229), (280, 13241), (282, 13250), (358, 13487), (365, 13511), (370, 13526), (382, 13559), (406, 13646), (414, 13670), (440, 13754), (471, 13838), (475, 13850), (479, 13871), (493, 13952), (608, 14027), (625, 14108), (640, 14156), (643, 14174), (646, 14186), (647, 14195), (654, 14231), (670, 14282), (690, 14339), (711, 14417), (714, 14426), (737, 14504), (744, 14519), (774, 14615), (831, 14855), (857, 14930), (892, 15041), (918, 15260), (921, 15272), (940, 15374), (952, 15455), (953, 15464), (981, 15536), (997, 15566), (1003, 15587), (1045, 15707), (1062, 15779), (1064, 15797), (1065, 15803),

Gene: Mercurio_17 Start: 11458, Stop: 15474, Start Num: 22

Candidate Starts for Mercurio_17:

(Start: 22 @11458 has 64 MA's), (64, 11725), (82, 11791), (87, 11815), (88, 11818), (96, 11842), (99, 11851), (101, 11854), (111, 11905), (118, 11932), (127, 11974), (139, 12019), (145, 12037), (146, 12040), (152, 12067), (163, 12115), (167, 12136), (181, 12193), (188, 12235), (200, 12280), (202, 12286), (218, 12349), (221, 12358), (223, 12370), (225, 12379), (246, 12460), (289, 12637), (300, 12667), (301, 12670), (305, 12688), (308, 12700), (318, 12730), (327, 12757), (336, 12790), (342,

12808), (346, 12823), (353, 12844), (364, 12877), (372, 12904), (387, 12949), (395, 12973), (401, 12991), (406, 13012), (437, 13108), (456, 13153), (462, 13180), (489, 13309), (522, 13438), (562, 13555), (571, 13582), (580, 13615), (601, 13690), (602, 13693), (620, 13777), (630, 13810), (645, 13873), (707, 14098), (716, 14122), (719, 14137), (726, 14161), (763, 14272), (781, 14353), (784, 14362), (807, 14455), (817, 14512), (828, 14545), (832, 14560), (950, 15139), (952, 15151), (954, 15166), (975, 15238), (1001, 15289), (1031, 15397),

Gene: Milly_17 Start: 10116, Stop: 13784, Start Num: 20

Candidate Starts for Milly_17:

(Start: 20 @10116 has 36 MA's), (Start: 33 @10188 has 1 MA's), (83, 10422), (103, 10473), (124, 10566), (129, 10587), (143, 10641), (164, 10734), (168, 10755), (174, 10776), (175, 10782), (193, 10872), (203, 10914), (212, 10950), (221, 10983), (223, 10995), (230, 11019), (237, 11040), (243, 11064), (244, 11070), (250, 11106), (252, 11115), (259, 11148), (261, 11160), (269, 11187), (333, 11370), (336, 11382), (338, 11388), (344, 11406), (350, 11427), (358, 11451), (365, 11475), (395, 11484), (400, 11499), (411, 11511), (439, 11544), (460, 11592), (490, 11733), (491, 11739), (498, 11775), (508, 11802), (514, 11820), (524, 11850), (562, 11946), (574, 11979), (587, 12012), (607, 12066), (615, 12099), (620, 12120), (630, 12144), (638, 12174), (642, 12195), (718, 12417), (751, 12510), (777, 12588), (811, 12711), (843, 12816), (867, 12864), (940, 13281), (941, 13290), (944, 13320), (1000, 13485), (1045, 13614), (1065, 13707),

Gene: Miryou_19 Start: 12115, Stop: 16230, Start Num: 20

Candidate Starts for Miryou_19:

(Start: 20 @12115 has 36 MA's), (58, 12373), (79, 12457), (95, 12523), (108, 12571), (122, 12631), (124, 12643), (129, 12664), (143, 12718), (149, 12748), (164, 12811), (168, 12832), (182, 12889), (193, 12949), (203, 12991), (212, 13027), (218, 13051), (229, 13093), (239, 13126), (275, 13285), (280, 13306), (310, 13384), (333, 13447), (337, 13462), (338, 13465), (341, 13474), (343, 13480), (346, 13492), (358, 13528), (363, 13546), (395, 13648), (406, 13687), (460, 13840), (472, 13882), (478, 13906), (494, 13996), (500, 14029), (518, 14095), (541, 14170), (544, 14179), (551, 14197), (562, 14224), (584, 14302), (608, 14386), (638, 14509), (650, 14575), (687, 14677), (711, 14770), (719, 14800), (727, 14827), (730, 14833), (749, 14884), (753, 14905), (760, 14920), (761, 14926), (783, 15010), (794, 15040), (797, 15058), (806, 15097), (819, 15157), (829, 15190), (834, 15211), (842, 15235), (853, 15268), (878, 15352), (895, 15424), (940, 15739), (948, 15793), (950, 15808), (952, 15820), (959, 15850), (1036, 16036), (1049, 16072), (1066, 16159), (1068, 16183),

Gene: MissDaisy_22 Start: 13088, Stop: 17254, Start Num: 22

Candidate Starts for MissDaisy_22:

(15, 13052), (Start: 22 @13088 has 64 MA's), (47, 13286), (103, 13514), (106, 13526), (108, 13535), (113, 13565), (129, 13628), (164, 13775), (168, 13796), (177, 13835), (178, 13838), (193, 13913), (212, 13991), (235, 14078), (237, 14081), (244, 14111), (249, 14144), (255, 14168), (276, 14252), (283, 14282), (291, 14309), (328, 14417), (334, 14438), (337, 14450), (341, 14462), (358, 14516), (406, 14675), (413, 14696), (440, 14804), (476, 14924), (532, 15173), (572, 15284), (586, 15335), (588, 15344), (601, 15389), (605, 15410), (635, 15509), (640, 15524), (641, 15530), (657, 15599), (662, 15620), (664, 15629), (669, 15641), (672, 15650), (698, 15722), (711, 15773), (712, 15776), (719, 15803), (758, 15902), (765, 15920), (782, 15995), (829, 16184), (831, 16196), (857, 16271), (898, 16451), (914, 16571), (926, 16679), (939, 16739), (952, 16826), (957, 16856), (989, 16946), (997, 16955), (998, 16958), (1033, 17057), (1044, 17084), (1065, 17180), (1071, 17243),

Gene: Mitti_22 Start: 13237, Stop: 17412, Start Num: 22

Candidate Starts for Mitti_22:

(15, 13201), (Start: 22 @13237 has 64 MA's), (47, 13435), (106, 13675), (108, 13684), (129, 13777), (164, 13924), (168, 13945), (177, 13984), (178, 13987), (193, 14062), (212, 14140), (235, 14227), (237, 14230), (244, 14260), (249, 14293), (255, 14317), (276, 14401), (283, 14431), (291, 14458), (328, 14566), (334, 14587), (337, 14599), (341, 14611), (358, 14665), (406, 14824), (413, 14845),

(440, 14953), (476, 15073), (572, 15433), (586, 15484), (588, 15493), (601, 15538), (605, 15559), (664, 15778), (669, 15790), (672, 15799), (698, 15871), (711, 15922), (712, 15925), (719, 15952), (758, 16051), (765, 16069), (782, 16144), (829, 16333), (831, 16345), (857, 16420), (898, 16606), (914, 16726), (926, 16834), (952, 16984), (989, 17104), (997, 17113), (998, 17116), (1033, 17215), (1044, 17242), (1065, 17338), (1071, 17401),

Gene: Mowgli_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Mowgli_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Muddy_19 Start: 11647, Stop: 15096, Start Num: 89

Candidate Starts for Muddy_19:

(Start: 89 @11647 has 2 MA's), (94, 11662), (107, 11710), (108, 11713), (119, 11758), (147, 11881), (221, 12187), (227, 12208), (230, 12220), (237, 12241), (254, 12325), (267, 12379), (269, 12388), (289, 12475), (293, 12484), (305, 12526), (325, 12571), (329, 12583), (335, 12604), (342, 12628), (359, 12682), (376, 12736), (384, 12757), (387, 12769), (393, 12793), (396, 12802), (417, 12880), (428, 12898), (438, 12937), (465, 13006), (479, 13060), (503, 13180), (563, 13216), (564, 13222), (574, 13255), (578, 13267), (611, 13390), (640, 13501), (645, 13528), (647, 13540), (675, 13648), (681, 13657), (700, 13750), (714, 13780), (724, 13816), (734, 13846), (737, 13864), (749, 13891), (750, 13894), (768, 13948), (769, 13951), (790, 14041), (800, 14089), (803, 14104), (807, 14122), (812, 14137), (824, 14197), (831, 14230), (833, 14239), (836, 14248), (852, 14284), (858, 14299), (909, 14494), (939, 14689), (953, 14785), (956, 14803), (976, 14845), (978, 14851), (990, 14878), (1026, 14980), (1028, 14989), (1041, 15028),

Gene: Mufasa_17 Start: 10138, Stop: 13812, Start Num: 20

Candidate Starts for Mufasa_17:

(Start: 20 @10138 has 36 MA's), (Start: 33 @10210 has 1 MA's), (45, 10309), (83, 10444), (103, 10495), (124, 10588), (143, 10663), (164, 10756), (168, 10777), (174, 10798), (175, 10804), (193, 10894), (203, 10936), (212, 10972), (221, 11005), (223, 11017), (230, 11041), (237, 11062), (243, 11086), (244, 11092), (250, 11128), (252, 11137), (259, 11170), (261, 11182), (269, 11209), (333, 11392), (336, 11404), (338, 11410), (350, 11449), (358, 11473), (395, 11506), (401, 11524), (411, 11533), (439, 11566), (490, 11755), (491, 11761), (498, 11797), (508, 11824), (514, 11842), (521, 11860), (524, 11872), (562, 11968), (574, 12001), (587, 12034), (607, 12088), (615, 12121), (620, 12142), (630, 12166), (638, 12196), (642, 12217), (699, 12385), (703, 12403), (718, 12439), (751, 12532), (777, 12610), (811, 12733), (867, 12886), (933, 13273), (940, 13303), (941, 13312), (944, 13342), (955, 13402), (1000, 13510), (1045, 13642), (1065, 13735),

Gene: Murucutumbu_21 Start: 12036, Stop: 15869, Start Num: 21

Candidate Starts for Murucutumbu_21:

(Start: 21 @12036 has 179 MA's), (Start: 33 @12105 has 1 MA's), (43, 12192), (78, 12372), (84, 12399), (106, 12483), (108, 12492), (122, 12552), (124, 12564), (143, 12639), (152, 12681), (162, 12723), (164, 12732), (168, 12753), (177, 12792), (193, 12870), (212, 12948), (252, 13113), (275, 13206), (280, 13227), (282, 13236), (358, 13473), (365, 13497), (370, 13512), (382, 13545), (406, 13632), (440, 13740), (471, 13824), (475, 13836), (479, 13857), (493, 13938), (608, 14013), (625, 14094), (629, 14103), (640, 14142), (643, 14160), (647, 14181), (654, 14217), (670, 14268), (690,

14325), (711, 14403), (714, 14412), (737, 14490), (744, 14505), (758, 14547), (774, 14601), (831, 14841), (857, 14916), (892, 15027), (918, 15246), (940, 15360), (952, 15441), (953, 15450), (981, 15522), (997, 15552), (1003, 15573), (1045, 15690), (1062, 15762), (1065, 15786),

Gene: Mynx_21 Start: 12099, Stop: 15932, Start Num: 21

Candidate Starts for Mynx_21:

(Start: 21 @12099 has 179 MA's), (Start: 33 @12168 has 1 MA's), (43, 12255), (78, 12432), (84, 12459), (103, 12531), (106, 12543), (108, 12552), (124, 12624), (143, 12699), (162, 12783), (164, 12792), (168, 12813), (177, 12852), (193, 12930), (212, 13008), (237, 13098), (252, 13173), (275, 13266), (277, 13275), (280, 13287), (282, 13296), (358, 13533), (370, 13572), (382, 13605), (406, 13692), (414, 13716), (440, 13800), (471, 13884), (475, 13896), (479, 13917), (608, 14073), (625, 14154), (640, 14202), (643, 14220), (647, 14241), (654, 14277), (670, 14328), (690, 14385), (711, 14463), (714, 14472), (737, 14550), (744, 14565), (758, 14607), (774, 14661), (831, 14901), (857, 14976), (892, 15087), (918, 15306), (921, 15318), (952, 15501), (953, 15510), (981, 15582), (997, 15612), (1003, 15633), (1045, 15753), (1062, 15825), (1064, 15843), (1065, 15849),

Gene: Neighly_19 Start: 11979, Stop: 16091, Start Num: 20

Candidate Starts for Neighly_19:

(Start: 20 @11979 has 36 MA's), (Start: 35 @12072 has 1 MA's), (45, 12150), (46, 12174), (58, 12234), (79, 12318), (108, 12432), (122, 12492), (124, 12504), (129, 12525), (143, 12579), (154, 12627), (164, 12672), (168, 12693), (193, 12810), (212, 12888), (218, 12912), (237, 12978), (252, 13053), (275, 13146), (282, 13176), (338, 13350), (350, 13389), (358, 13413), (364, 13434), (385, 13494), (406, 13572), (434, 13659), (460, 13725), (472, 13767), (475, 13776), (488, 13860), (494, 13881), (500, 13914), (518, 13980), (524, 14001), (541, 14055), (544, 14064), (551, 14082), (562, 14109), (572, 14139), (581, 14175), (605, 14265), (608, 14271), (611, 14289), (638, 14394), (650, 14460), (711, 14655), (719, 14685), (730, 14718), (749, 14769), (753, 14790), (760, 14805), (761, 14811), (783, 14895), (797, 14943), (806, 14982), (819, 15042), (829, 15075), (834, 15096), (842, 15120), (853, 15150), (878, 15216), (895, 15288), (940, 15603), (941, 15612), (942, 15615), (944, 15642), (948, 15657), (950, 15672), (952, 15684), (959, 15714), (981, 15768), (989, 15786), (1023, 15855), (1036, 15903), (1045, 15927), (1049, 15939), (1053, 15948), (1066, 16020), (1068, 16044), (1073, 16083),

Gene: Neoh_16 Start: 11456, Stop: 15469, Start Num: 21

Candidate Starts for Neoh_16:

(Start: 21 @11456 has 179 MA's), (47, 11657), (75, 11771), (84, 11813), (90, 11843), (124, 11978), (126, 11990), (129, 11999), (174, 12188), (177, 12206), (178, 12209), (183, 12230), (186, 12242), (199, 12314), (212, 12362), (246, 12494), (250, 12518), (269, 12599), (304, 12722), (333, 12806), (344, 12842), (358, 12887), (359, 12893), (393, 13001), (401, 13025), (406, 13046), (478, 13265), (509, 13415), (532, 13502), (571, 13610), (608, 13745), (634, 13856), (640, 13874), (646, 13904), (707, 14126), (717, 14150), (721, 14165), (726, 14186), (737, 14213), (749, 14240), (769, 14300), (790, 14390), (795, 14423), (812, 14486), (823, 14543), (831, 14576), (833, 14585), (942, 15089), (944, 15116), (950, 15146), (952, 15158), (953, 15167), (981, 15236), (1023, 15317), (1040, 15377), (1047, 15395), (1050, 15404),

Gene: Nibb_20 Start: 11122, Stop: 15189, Start Num: 22

Candidate Starts for Nibb_20:

(15, 11086), (Start: 22 @11122 has 64 MA's), (55, 11347), (61, 11374), (64, 11383), (91, 11485), (123, 11614), (146, 11707), (148, 11719), (161, 11773), (167, 11803), (188, 11890), (192, 11905), (217, 12001), (218, 12004), (229, 12046), (246, 12115), (289, 12298), (305, 12349), (308, 12361), (318, 12391), (336, 12451), (340, 12463), (342, 12469), (346, 12484), (352, 12502), (353, 12505), (401, 12652), (403, 12661), (406, 12673), (408, 12679), (413, 12694), (415, 12700), (472, 12784), (482, 12853), (524, 13018), (539, 13066), (562, 13126), (572, 13156), (586, 13207), (591, 13228), (602, 13264), (613, 13318), (647, 13456), (659, 13510), (670, 13543), (680, 13561), (690, 13600), (711, 13678), (712, 13681), (737, 13765), (758, 13822), (770, 13858), (774, 13876), (782, 13915), (831,

14116), (847, 14158), (857, 14191), (918, 14533), (952, 14731), (1045, 15019), (1049, 15031), (1062, 15103), (1065, 15124),

Gene: Nikao_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for Nikao_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (612, 13649), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: Niklas_21 Start: 11128, Stop: 15282, Start Num: 22

Candidate Starts for Niklas_21:

(15, 11086), (Start: 22 @11128 has 64 MA's), (37, 11221), (61, 11380), (70, 11407), (93, 11497), (94, 11500), (115, 11587), (142, 11695), (158, 11764), (162, 11782), (181, 11866), (188, 11908), (192, 11923), (195, 11932), (202, 11959), (218, 12022), (229, 12064), (246, 12133), (259, 12196), (260, 12205), (289, 12319), (292, 12325), (303, 12361), (305, 12370), (308, 12382), (313, 12394), (318, 12412), (336, 12472), (340, 12484), (342, 12490), (346, 12505), (352, 12523), (353, 12526), (359, 12544), (364, 12559), (376, 12598), (395, 12655), (398, 12664), (406, 12694), (413, 12715), (420, 12745), (433, 12778), (462, 12862), (471, 12892), (475, 12904), (493, 13006), (513, 13084), (524, 13129), (531, 13153), (550, 13207), (551, 13210), (558, 13225), (572, 13267), (578, 13294), (581, 13303), (586, 13318), (587, 13324), (588, 13327), (622, 13468), (633, 13504), (634, 13510), (640, 13528), (645, 13555), (647, 13567), (659, 13621), (670, 13654), (691, 13714), (711, 13795), (712, 13798), (737, 13882), (744, 13897), (782, 14032), (799, 14098), (831, 14233), (914, 14584), (952, 14839), (953, 14848), (972, 14914), (1045, 15109), (1053, 15130), (1062, 15181), (1064, 15199), (1065, 15205), (1069, 15244),

Gene: NoShow_16 Start: 10206, Stop: 14354, Start Num: 7

Candidate Starts for NoShow_16:

(Start: 7 @10206 has 1 MA's), (9, 10218), (17, 10323), (19, 10344), (59, 10602), (68, 10635), (70, 10638), (77, 10671), (93, 10728), (98, 10743), (99, 10746), (111, 10800), (116, 10821), (121, 10839), (123, 10851), (128, 10872), (131, 10881), (138, 10911), (164, 11013), (165, 11022), (174, 11055), (189, 11121), (192, 11133), (195, 11142), (208, 11187), (214, 11220), (218, 11232), (224, 11259), (246, 11343), (261, 11418), (274, 11457), (285, 11502), (289, 11526), (303, 11568), (304, 11571), (305, 11577), (308, 11589), (324, 11634), (340, 11691), (342, 11697), (346, 11712), (352, 11730), (364, 11766), (369, 11784), (374, 11802), (385, 11829), (387, 11838), (401, 11880), (402, 11886), (413, 11922), (415, 11928), (427, 11961), (433, 11985), (440, 12009), (494, 12213), (500, 12246), (503, 12258), (514, 12294), (537, 12378), (539, 12384), (570, 12477), (582, 12519), (584, 12531), (587, 12540), (594, 12564), (603, 12597), (618, 12675), (625, 12705), (630, 12717), (632, 12726), (638, 12747), (648, 12801), (659, 12846), (686, 12921), (702, 12996), (716, 13032), (723, 13059), (725, 13068), (729, 13080), (740, 13116), (781, 13257), (784, 13266), (799, 13311), (807, 13344), (817, 13398), (828, 13431), (840, 13470), (850, 13491), (859, 13518), (889, 13599), (903, 13680), (905, 13692), (939, 13938), (944, 13983), (952, 14025), (956, 14052), (972, 14106), (977, 14127), (982, 14142), (985, 14148), (1006, 14202), (1007, 14208), (1024, 14244), (1043, 14301), (1045, 14310),

Gene: November_19 Start: 12038, Stop: 16228, Start Num: 21

Candidate Starts for November_19:

(Start: 21 @12038 has 179 MA's), (Start: 33 @12107 has 1 MA's), (Start: 35 @12128 has 1 MA's), (43, 12194), (75, 12356), (91, 12431), (106, 12482), (108, 12491), (122, 12551), (124, 12563), (129, 12584), (143, 12638), (149, 12668), (164, 12731), (168, 12752), (177, 12791), (193, 12869), (212, 12947), (218, 12971), (233, 13025), (237, 13037), (250, 13103), (259, 13145), (269, 13184), (273, 13196), (280, 13226), (282, 13235), (320, 13349), (325, 13364), (341, 13418), (350, 13448), (358, 13472), (364, 13493), (381, 13541), (393, 13586), (394, 13589), (406, 13631), (413, 13652), (430, 13700), (448, 13757), (453, 13772), (455, 13787), (461, 13808), (464, 13820), (477, 13865), (494, 13961), (572, 14219), (576, 14240), (602, 14327), (608, 14351), (612, 14378), (613, 14381), (620, 14411), (634, 14462), (643, 14498), (670, 14606), (711, 14741), (712, 14744), (732, 14810), (735, 14816), (749, 14855), (773, 14927), (775, 14933), (780, 14954), (801, 15038), (808, 15068), (813, 15089), (814, 15101), (831, 15182), (841, 15215), (846, 15224), (849, 15230), (863, 15272), (869, 15290), (875, 15323), (877, 15329), (918, 15617), (940, 15731), (941, 15740), (942, 15743), (952, 15812), (1003, 15947), (1045, 16067), (1065, 16163), (1069, 16202),

Gene: Nutello_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for Nutello_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: OctaviousRex_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for OctaviousRex_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: OkiRoe_19 Start: 12137, Stop: 16246, Start Num: 20

Candidate Starts for OkiRoe_19:

(Start: 20 @12137 has 36 MA's), (58, 12395), (79, 12479), (95, 12545), (108, 12593), (122, 12653), (124, 12665), (129, 12686), (143, 12740), (149, 12770), (164, 12833), (168, 12854), (182, 12911), (193, 12971), (212, 13049), (218, 13073), (229, 13115), (239, 13148), (275, 13307), (280, 13328), (310, 13406), (333, 13469), (337, 13484), (338, 13487), (341, 13496), (343, 13502), (346, 13514), (363, 13568), (395, 13670), (406, 13709), (460, 13862), (472, 13904), (478, 13928), (494, 14018), (500, 14051), (541, 14192), (544, 14201), (551, 14219), (562, 14246), (584, 14324), (608, 14408), (638, 14531), (650, 14597), (687, 14699), (711, 14792), (719, 14822), (727, 14849), (730, 14855), (749, 14906), (753, 14927), (760, 14942), (761, 14948), (783, 15032), (797, 15080), (806, 15119), (819, 15179), (829, 15212), (834, 15233), (842, 15257), (853, 15290), (878, 15374), (895, 15446), (940, 15755), (948, 15809), (950, 15824), (952, 15836), (959, 15866), (1036, 16052), (1049, 16088), (1066, 16175), (1068, 16199),

Gene: Olga_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Olga_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: OmniCritical_22 Start: 13225, Stop: 17397, Start Num: 22

Candidate Starts for OmniCritical_22:

(15, 13189), (Start: 22 @13225 has 64 MA's), (47, 13423), (106, 13663), (108, 13672), (129, 13765), (164, 13912), (168, 13933), (177, 13972), (178, 13975), (193, 14050), (212, 14128), (235, 14215), (237, 14218), (244, 14248), (249, 14281), (255, 14305), (276, 14389), (283, 14419), (291, 14446), (328, 14554), (334, 14575), (337, 14587), (341, 14599), (358, 14653), (406, 14812), (413, 14833), (440, 14941), (476, 15061), (572, 15421), (586, 15472), (588, 15481), (601, 15526), (605, 15547), (664, 15766), (669, 15778), (672, 15787), (698, 15859), (711, 15910), (712, 15913), (719, 15940), (758, 16039), (765, 16057), (782, 16132), (829, 16321), (831, 16333), (857, 16408), (898, 16594), (914, 16714), (926, 16822), (952, 16969), (989, 17089), (997, 17098), (998, 17101), (1033, 17200), (1044, 17227), (1065, 17323), (1071, 17386),

Gene: Omnicron_19 Start: 11169, Stop: 15011, Start Num: 20

Candidate Starts for Omnicron_19:

(Start: 20 @11169 has 36 MA's), (51, 11355), (53, 11367), (73, 11433), (75, 11445), (78, 11457), (83, 11475), (84, 11478), (124, 11631), (129, 11652), (143, 11706), (149, 11736), (154, 11754), (160, 11784), (162, 11790), (164, 11799), (168, 11820), (175, 11847), (193, 11937), (212, 12015), (221, 12048), (223, 12060), (233, 12093), (245, 12138), (250, 12171), (259, 12213), (261, 12225), (263, 12228), (303, 12348), (310, 12372), (334, 12438), (338, 12453), (341, 12462), (343, 12468), (358, 12516), (446, 12627), (450, 12636), (469, 12687), (470, 12693), (475, 12708), (478, 12723), (494, 12813), (500, 12846), (537, 12975), (541, 12987), (544, 12996), (551, 13014), (558, 13029), (562, 13041), (572, 13071), (583, 13110), (588, 13131), (590, 13140), (600, 13173), (603, 13185), (605, 13197), (608, 13203), (620, 13263), (622, 13272), (638, 13326), (641, 13338), (682, 13488), (711, 13569), (712, 13572), (727, 13626), (747, 13674), (750, 13683), (755, 13707), (789, 13827), (790, 13830), (809, 13917), (812, 13926), (825, 13986), (831, 14019), (835, 14034), (839, 14040), (858, 14085), (868, 14106), (874, 14133), (905, 14268), (913, 14343), (925, 14451), (940, 14520), (941, 14529), (942, 14532), (944, 14559), (952, 14601), (959, 14631), (981, 14688), (993, 14715), (1023, 14775), (1045, 14847), (1053, 14868), (1066, 14940), (1068, 14964), (1074, 15003),

Gene: Oscar_20 Start: 11083, Stop: 15156, Start Num: 22

Candidate Starts for Oscar_20:

(Start: 22 @11083 has 64 MA's), (37, 11176), (55, 11308), (91, 11446), (111, 11524), (113, 11536), (115, 11542), (123, 11575), (132, 11611), (146, 11668), (148, 11680), (161, 11734), (167, 11764), (188, 11851), (192, 11866), (202, 11902), (226, 11995), (246, 12076), (289, 12259), (293, 12268), (305, 12310), (318, 12352), (336, 12412), (340, 12424), (342, 12430), (346, 12445), (353, 12466), (364, 12499), (403, 12622), (406, 12634), (408, 12640), (413, 12655), (415, 12661), (472, 12745), (485, 12826), (524, 12979), (558, 13075), (562, 13087), (572, 13117), (586, 13168), (591, 13189), (600, 13219), (602, 13225), (608, 13249), (620, 13309), (634, 13360), (645, 13405), (647, 13417), (659, 13471), (670, 13504), (690, 13561), (711, 13639), (712, 13642), (737, 13726), (749, 13753), (758, 13783), (774, 13837), (782, 13876), (831, 14077), (847, 14119), (857, 14152), (860, 14158), (914, 14437), (918, 14494), (952, 14695), (983, 14809), (1045, 14986), (1062, 15070), (1065, 15091),

Gene: Pace1224_16 Start: 11630, Stop: 15664, Start Num: 22

Candidate Starts for Pace1224_16:

(Start: 22 @11630 has 64 MA's), (36, 11723), (41, 11753), (58, 11900), (79, 11984), (Start: 89 @12032 has 2 MA's), (122, 12158), (124, 12170), (129, 12191), (164, 12338), (168, 12359), (174, 12380), (177, 12398), (183, 12422), (186, 12434), (199, 12506), (204, 12521), (212, 12554), (246, 12686), (250, 12710), (255, 12731), (259, 12752), (261, 12764), (269, 12791), (273, 12803), (280, 12833), (291, 12881), (337, 13022), (350, 13064), (358, 13088), (372, 13133), (373, 13136), (406, 13247), (475, 13451), (478, 13466), (491, 13547), (494, 13556), (509, 13616), (541, 13730), (549, 13751), (571, 13811), (580, 13844), (588, 13874), (608, 13946), (613, 13976), (618, 13997), (645, 14102), (646, 14105), (656, 14159), (693, 14258), (698, 14276), (717, 14342), (721, 14357), (728, 14381), (746, 14423), (749, 14432), (769, 14492), (790, 14582), (812, 14678), (823, 14735), (831, 14768), (856, 14828), (863, 14843), (909, 15038), (940, 15245), (950, 15314), (952, 15326), (957, 15356), (970, 15416), (1023, 15512), (1040, 15572), (1047, 15590),

Gene: Padfoot_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Padfoot_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Padpat_21 Start: 12076, Stop: 15909, Start Num: 21

Candidate Starts for Padpat_21:

(Start: 21 @12076 has 179 MA's), (Start: 33 @12145 has 1 MA's), (43, 12232), (54, 12307), (78, 12409), (84, 12436), (103, 12508), (106, 12520), (108, 12529), (124, 12601), (143, 12676), (162, 12760), (164, 12769), (168, 12790), (177, 12829), (193, 12907), (212, 12985), (237, 13075), (252, 13150), (275, 13243), (277, 13252), (280, 13264), (282, 13273), (358, 13510), (370, 13549), (382, 13582), (406, 13669), (414, 13693), (440, 13777), (471, 13861), (475, 13873), (479, 13894), (608, 14050), (625, 14131), (640, 14179), (643, 14197), (647, 14218), (654, 14254), (670, 14305), (690, 14362), (711, 14440), (714, 14449), (737, 14527), (744, 14542), (758, 14584), (774, 14638), (831, 14878), (857, 14953), (892, 15064), (918, 15283), (921, 15295), (952, 15478), (953, 15487), (981, 15559), (997, 15589), (1003, 15610), (1045, 15730), (1062, 15802), (1064, 15820), (1065, 15826),

Gene: Paito_16 Start: 11582, Stop: 15610, Start Num: 21

Candidate Starts for Paito_16:

(Start: 21 @11582 has 179 MA's), (47, 11783), (73, 11885), (75, 11897), (79, 11918), (86, 11954), (90, 11969), (103, 12011), (124, 12104), (129, 12125), (162, 12263), (164, 12272), (174, 12314), (177, 12332), (178, 12335), (183, 12356), (186, 12368), (199, 12440), (212, 12488), (250, 12644), (304, 12848), (310, 12869), (330, 12920), (346, 12977), (358, 13013), (382, 13085), (388, 13106), (399, 13145), (406, 13172), (419, 13220), (430, 13241), (440, 13280), (475, 13376), (478, 13391), (507, 13538), (509, 13541), (539, 13649), (622, 13940), (634, 13982), (640, 14000), (646, 14030), (647, 14039), (705, 14246), (707, 14252), (717, 14276), (721, 14291), (726, 14312), (728, 14315), (749, 14366), (769, 14426), (785, 14507), (790, 14516), (795, 14549), (799, 14564), (812, 14612), (823, 14669), (831, 14702), (835, 14717), (862, 14780), (942, 15224), (944, 15251), (952, 15293), (953, 15302), (993, 15401), (1023, 15458), (1040, 15518), (1047, 15536), (1050, 15545),

Gene: Paola_19 Start: 12137, Stop: 16246, Start Num: 20

Candidate Starts for Paola_19:

(Start: 20 @12137 has 36 MA's), (58, 12395), (79, 12479), (95, 12545), (108, 12593), (122, 12653), (124, 12665), (129, 12686), (143, 12740), (149, 12770), (164, 12833), (168, 12854), (182, 12911), (193, 12971), (212, 13049), (218, 13073), (229, 13115), (239, 13148), (275, 13307), (280, 13328), (310, 13406), (333, 13469), (337, 13484), (338, 13487), (341, 13496), (343, 13502), (346, 13514), (358, 13550), (363, 13568), (395, 13670), (406, 13709), (460, 13862), (472, 13904), (478, 13928), (494, 14018), (500, 14051), (518, 14117), (541, 14192), (544, 14201), (551, 14219), (562, 14246), (584, 14324), (608, 14408), (638, 14531), (650, 14597), (687, 14699), (711, 14792), (719, 14822), (727, 14849), (730, 14855), (749, 14906), (753, 14927), (760, 14942), (761, 14948), (783, 15032), (794, 15062), (797, 15080), (806, 15119), (819, 15179), (829, 15212), (834, 15233), (842, 15257), (853, 15290), (878, 15374), (895, 15446), (940, 15755), (948, 15809), (950, 15824), (952, 15836), (959, 15866), (1036, 16052), (1045, 16076), (1049, 16088), (1066, 16175), (1068, 16199),

Gene: Patt_22 Start: 13064, Stop: 17230, Start Num: 22

Candidate Starts for Patt_22:

(15, 13028), (Start: 22 @13064 has 64 MA's), (47, 13262), (103, 13490), (106, 13502), (108, 13511), (113, 13541), (129, 13604), (164, 13751), (168, 13772), (177, 13811), (178, 13814), (193, 13889), (212, 13967), (235, 14054), (237, 14057), (244, 14087), (249, 14120), (255, 14144), (276, 14228), (283, 14258), (291, 14285), (328, 14393), (334, 14414), (337, 14426), (341, 14438), (358, 14492), (406, 14651), (413, 14672), (440, 14780), (476, 14900), (532, 15149), (572, 15260), (586, 15311), (588, 15320), (601, 15365), (605, 15386), (635, 15485), (640, 15500), (641, 15506), (657, 15575), (662, 15596), (664, 15605), (669, 15617), (672, 15626), (698, 15698), (711, 15749), (712, 15752), (719, 15779), (758, 15878), (765, 15896), (782, 15971), (829, 16160), (831, 16172), (857, 16247), (898, 16427), (914, 16547), (926, 16655), (939, 16715), (952, 16802), (957, 16832), (989, 16922), (997, 16931), (998, 16934), (1033, 17033), (1044, 17060), (1065, 17156), (1071, 17219),

Gene: Peanam_21 Start: 11128, Stop: 15282, Start Num: 22

Candidate Starts for Peanam_21:

(15, 11086), (Start: 22 @11128 has 64 MA's), (37, 11221), (61, 11380), (70, 11407), (93, 11497), (94, 11500), (115, 11587), (142, 11695), (158, 11764), (162, 11782), (181, 11866), (188, 11908), (192, 11923), (195, 11932), (202, 11959), (218, 12022), (229, 12064), (246, 12133), (259, 12196), (260, 12205), (289, 12319), (292, 12325), (303, 12361), (305, 12370), (308, 12382), (313, 12394), (318, 12412), (336, 12472), (340, 12484), (342, 12490), (346, 12505), (352, 12523), (353, 12526), (359, 12544), (364, 12559), (376, 12598), (395, 12655), (398, 12664), (406, 12694), (413, 12715), (420, 12745), (433, 12778), (462, 12862), (471, 12892), (475, 12904), (493, 13006), (513, 13084), (524, 13129), (531, 13153), (550, 13207), (551, 13210), (558, 13225), (572, 13267), (578, 13294), (581, 13303), (586, 13318), (587, 13324), (588, 13327), (622, 13468), (633, 13504), (634, 13510), (640, 13528), (645, 13555), (647, 13567), (659, 13621), (670, 13654), (691, 13714), (711, 13795), (712, 13798), (737, 13882), (744, 13897), (782, 14032), (799, 14098), (831, 14233), (914, 14584), (952, 14839), (953, 14848), (972, 14914), (1045, 15109), (1053, 15130), (1062, 15181), (1064, 15199), (1065, 15205), (1069, 15244),

Gene: Peeb_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Peeb_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385),

(1047, 15403), (1050, 15412),

Gene: Peel_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Peel_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Periodt_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Periodt_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Pharb_20 Start: 12014, Stop: 16198, Start Num: 21

Candidate Starts for Pharb_20:

(12, 11966), (Start: 21 @12014 has 179 MA's), (Start: 33 @12083 has 1 MA's), (Start: 35 @12104 has 1 MA's), (37, 12110), (43, 12170), (79, 12353), (82, 12365), (84, 12374), (106, 12458), (122, 12527), (124, 12539), (129, 12560), (143, 12614), (149, 12644), (164, 12707), (168, 12728), (177, 12767), (193, 12845), (212, 12923), (218, 12947), (259, 13121), (272, 13169), (275, 13181), (280, 13202), (282, 13211), (323, 13331), (343, 13400), (347, 13415), (358, 13448), (364, 13469), (366, 13478), (378, 13508), (382, 13520), (393, 13562), (394, 13565), (395, 13568), (406, 13607), (432, 13685), (455, 13763), (464, 13796), (474, 13826), (485, 13904), (507, 13994), (517, 14024), (524, 14057), (556, 14147), (572, 14195), (608, 14327), (613, 14357), (634, 14438), (643, 14474), (654, 14531), (659, 14549), (670, 14582), (691, 14642), (711, 14723), (722, 14762), (733, 14795), (737, 14810), (739, 14816), (744, 14825), (758, 14867), (774, 14921), (782, 14960), (802, 15038), (831, 15161), (857, 15236), (901, 15425), (934, 15665), (940, 15695), (942, 15707), (953, 15785), (1000, 15914), (1035, 16001), (1036, 16004), (1049, 16037), (1058, 16082), (1065, 16118), (1067, 16133), (1068, 16145), (1071, 16181),

Gene: PhelpsODU_20 Start: 11123, Stop: 15124, Start Num: 22

Candidate Starts for PhelpsODU_20:

(Start: 22 @11123 has 64 MA's), (37, 11216), (49, 11321), (61, 11375), (66, 11393), (72, 11411), (77, 11435), (80, 11441), (86, 11468), (87, 11474), (91, 11486), (102, 11519), (123, 11615), (127, 11633), (128, 11636), (158, 11750), (161, 11765), (188, 11882), (213, 11978), (223, 12017), (229, 12038), (232, 12047), (246, 12107), (289, 12290), (292, 12296), (293, 12299), (308, 12353), (318, 12383), (336, 12443), (340, 12455), (342, 12461), (346, 12476), (353, 12497), (359, 12515), (403, 12653), (406, 12665), (413, 12686), (442, 12725), (474, 12779), (475, 12785), (493, 12887), (507, 12947), (524, 13010), (551, 13091), (558, 13106), (559, 13109), (572, 13148), (581, 13184), (586, 13199), (587, 13205), (595, 13232), (602, 13256), (618, 13331), (634, 13391), (647, 13448), (654, 13484),

(670, 13535), (711, 13676), (712, 13679), (737, 13763), (749, 13790), (774, 13874), (782, 13913), (831, 14114), (857, 14189), (909, 14408), (920, 14522), (940, 14624), (941, 14633), (952, 14705), (981, 14789), (997, 14819), (1005, 14840), (1045, 14957), (1062, 15032), (1067, 15071), (1068, 15083),

Gene: Phish_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Phish_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Phloodle_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Phloodle_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Phrank_20 Start: 11071, Stop: 15072, Start Num: 22

Candidate Starts for Phrank_20:

(Start: 22 @11071 has 64 MA's), (37, 11164), (49, 11269), (55, 11296), (61, 11323), (66, 11341), (72, 11359), (77, 11383), (80, 11389), (86, 11416), (87, 11422), (99, 11458), (102, 11467), (107, 11491), (123, 11563), (127, 11581), (128, 11584), (161, 11713), (188, 11830), (213, 11926), (223, 11965), (232, 11995), (246, 12055), (289, 12238), (292, 12244), (293, 12247), (308, 12301), (318, 12331), (336, 12391), (340, 12403), (342, 12409), (346, 12424), (353, 12445), (359, 12463), (403, 12601), (406, 12613), (413, 12634), (442, 12673), (474, 12727), (475, 12733), (507, 12895), (524, 12958), (551, 13039), (558, 13054), (572, 13096), (586, 13147), (591, 13168), (600, 13198), (602, 13204), (608, 13228), (618, 13279), (634, 13339), (647, 13396), (654, 13432), (659, 13450), (670, 13483), (711, 13624), (712, 13627), (737, 13711), (749, 13738), (774, 13822), (831, 14062), (857, 14137), (920, 14470), (940, 14572), (941, 14581), (952, 14653), (981, 14737), (997, 14767), (1005, 14788), (1045, 14905), (1062, 14980), (1067, 15019), (1068, 15031),

Gene: Phreak_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Phreak_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385),

(1047, 15403), (1050, 15412),

Gene: Piatt_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Piatt_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: PinkYoshi_16 Start: 11455, Stop: 15468, Start Num: 21

Candidate Starts for PinkYoshi_16:

(Start: 21 @11455 has 179 MA's), (47, 11656), (75, 11770), (84, 11812), (90, 11842), (124, 11977), (126, 11989), (129, 11998), (174, 12187), (177, 12205), (178, 12208), (183, 12229), (186, 12241), (199, 12313), (212, 12361), (246, 12493), (250, 12517), (269, 12598), (304, 12721), (333, 12805), (344, 12841), (358, 12886), (359, 12892), (393, 13000), (401, 13024), (406, 13045), (478, 13264), (509, 13414), (532, 13501), (571, 13609), (608, 13744), (634, 13855), (640, 13873), (646, 13903), (707, 14125), (717, 14149), (721, 14164), (726, 14185), (737, 14212), (749, 14239), (769, 14299), (790, 14389), (795, 14422), (812, 14485), (823, 14542), (831, 14575), (833, 14584), (942, 15088), (944, 15115), (950, 15145), (952, 15157), (953, 15166), (981, 15235), (1023, 15316), (1040, 15376), (1047, 15394), (1050, 15403),

Gene: Pinnie_17 Start: 12158, Stop: 16180, Start Num: 22

Candidate Starts for Pinnie_17:

(Start: 22 @12158 has 64 MA's), (29, 12203), (47, 12359), (49, 12362), (66, 12434), (72, 12452), (75, 12464), (86, 12509), (91, 12527), (115, 12623), (117, 12629), (121, 12644), (123, 12656), (127, 12674), (138, 12716), (139, 12719), (149, 12755), (152, 12767), (158, 12791), (159, 12797), (164, 12818), (181, 12893), (188, 12935), (192, 12950), (202, 12986), (207, 13001), (218, 13049), (221, 13058), (246, 13160), (281, 13301), (289, 13343), (300, 13373), (302, 13379), (303, 13385), (318, 13436), (340, 13508), (342, 13514), (346, 13529), (352, 13547), (353, 13550), (372, 13610), (387, 13655), (401, 13697), (406, 13718), (414, 13742), (416, 13754), (417, 13757), (437, 13814), (462, 13886), (475, 13928), (493, 14030), (509, 14093), (541, 14207), (549, 14228), (571, 14288), (586, 14342), (587, 14348), (602, 14399), (618, 14474), (630, 14516), (645, 14579), (694, 14744), (716, 14828), (719, 14843), (725, 14861), (726, 14867), (739, 14909), (744, 14918), (759, 14963), (763, 14978), (781, 15059), (784, 15068), (807, 15161), (817, 15218), (828, 15251), (848, 15305), (854, 15326), (942, 15785), (944, 15812), (949, 15839), (952, 15854), (953, 15863), (975, 15950), (1027, 16088), (1031, 16106), (1046, 16145),

Gene: Pisa1_20 Start: 11833, Stop: 15987, Start Num: 21

Candidate Starts for Pisa1_20:

(Start: 21 @11833 has 179 MA's), (Start: 33 @11902 has 1 MA's), (43, 11989), (78, 12169), (79, 12175), (84, 12196), (91, 12229), (106, 12280), (108, 12289), (122, 12349), (124, 12361), (143, 12436), (155, 12487), (164, 12529), (168, 12550), (177, 12589), (193, 12667), (212, 12745), (233, 12823), (239, 12844), (240, 12850), (252, 12910), (275, 13003), (280, 13024), (282, 13033), (297, 13084), (320, 13147), (347, 13237), (358, 13270), (384, 13348), (387, 13360), (390, 13369), (393, 13384), (394, 13387), (406, 13429), (434, 13516), (440, 13537), (471, 13621), (475, 13633), (493, 13735), (494, 13738), (524, 13858), (539, 13906), (542, 13915), (551, 13939), (559, 13957), (562, 13966), (572, 13996), (576, 14017), (587, 14053), (608, 14128), (622, 14197), (647, 14296), (654,

14332), (659, 14350), (670, 14383), (711, 14518), (714, 14527), (737, 14605), (744, 14620), (758, 14662), (774, 14716), (831, 14956), (857, 15031), (892, 15142), (898, 15184), (940, 15475), (952, 15556), (953, 15565), (981, 15637), (983, 15649), (997, 15667), (1003, 15688), (1045, 15808), (1062, 15880), (1064, 15898), (1065, 15904),

Gene: Pisa4_20 Start: 11833, Stop: 15987, Start Num: 21

Candidate Starts for Pisa4_20:

(Start: 21 @11833 has 179 MA's), (Start: 33 @11902 has 1 MA's), (43, 11989), (78, 12169), (79, 12175), (84, 12196), (91, 12229), (106, 12280), (108, 12289), (122, 12349), (124, 12361), (143, 12436), (155, 12487), (164, 12529), (168, 12550), (177, 12589), (193, 12667), (212, 12745), (233, 12823), (239, 12844), (240, 12850), (252, 12910), (275, 13003), (280, 13024), (282, 13033), (297, 13084), (320, 13147), (347, 13237), (358, 13270), (384, 13348), (387, 13360), (390, 13369), (393, 13384), (394, 13387), (406, 13429), (434, 13516), (440, 13537), (471, 13621), (475, 13633), (493, 13735), (494, 13738), (524, 13858), (539, 13906), (542, 13915), (551, 13939), (559, 13957), (562, 13966), (572, 13996), (576, 14017), (587, 14053), (608, 14128), (622, 14197), (647, 14296), (654, 14332), (659, 14350), (670, 14383), (711, 14518), (714, 14527), (737, 14605), (744, 14620), (758, 14662), (774, 14716), (831, 14956), (857, 15031), (892, 15142), (898, 15184), (940, 15475), (952, 15556), (953, 15565), (981, 15637), (983, 15649), (997, 15667), (1003, 15688), (1045, 15808), (1062, 15880), (1064, 15898), (1065, 15904),

Gene: Pixie_20 Start: 11949, Stop: 16127, Start Num: 21

Candidate Starts for Pixie_20:

(Start: 21 @11949 has 179 MA's), (Start: 33 @12018 has 1 MA's), (Start: 35 @12039 has 1 MA's), (37, 12045), (43, 12105), (69, 12243), (79, 12288), (84, 12309), (122, 12462), (124, 12474), (129, 12495), (143, 12549), (149, 12579), (155, 12600), (162, 12633), (164, 12642), (168, 12663), (177, 12702), (193, 12780), (203, 12822), (212, 12858), (218, 12882), (259, 13056), (269, 13095), (275, 13116), (280, 13137), (282, 13146), (336, 13314), (343, 13335), (350, 13359), (358, 13383), (364, 13404), (371, 13422), (382, 13455), (393, 13497), (394, 13500), (395, 13503), (406, 13542), (409, 13551), (432, 13620), (464, 13731), (474, 13761), (517, 13959), (524, 13992), (556, 14082), (562, 14100), (572, 14130), (578, 14157), (613, 14292), (634, 14373), (643, 14409), (654, 14466), (659, 14484), (665, 14505), (670, 14517), (691, 14577), (711, 14658), (722, 14697), (733, 14730), (737, 14745), (739, 14751), (744, 14760), (758, 14802), (782, 14895), (802, 14973), (831, 15096), (857, 15171), (940, 15636), (942, 15648), (952, 15717), (953, 15726), (1029, 15918), (1035, 15936), (1049, 15972), (1053, 15981), (1064, 16047), (1065, 16053), (1067, 16068), (1068, 16080),

Gene: Plagueis_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Plagueis_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Pokerus_20 Start: 12033, Stop: 15866, Start Num: 21

Candidate Starts for Pokerus_20:

(Start: 21 @12033 has 179 MA's), (Start: 33 @12102 has 1 MA's), (43, 12189), (78, 12366), (84, 12393), (103, 12465), (106, 12477), (108, 12486), (124, 12558), (143, 12633), (162, 12717), (164, 12726), (168, 12747), (177, 12786), (193, 12864), (212, 12942), (237, 13032), (252, 13107), (275, 13200), (277, 13209), (280, 13221), (282, 13230), (358, 13467), (370, 13506), (382, 13539), (406,

13626), (414, 13650), (440, 13734), (471, 13818), (475, 13830), (479, 13851), (608, 14007), (625, 14088), (640, 14136), (643, 14154), (647, 14175), (654, 14211), (670, 14262), (690, 14319), (711, 14397), (714, 14406), (737, 14484), (744, 14499), (758, 14541), (774, 14595), (831, 14835), (857, 14910), (892, 15021), (918, 15240), (921, 15252), (952, 15435), (953, 15444), (981, 15516), (997, 15546), (1003, 15567), (1045, 15687), (1062, 15759), (1064, 15777), (1065, 15783),

Gene: Primanti_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Primanti_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Prithvi_21 Start: 12047, Stop: 15883, Start Num: 21

Candidate Starts for Prithvi_21:

(Start: 21 @12047 has 179 MA's), (Start: 33 @12116 has 1 MA's), (43, 12203), (78, 12383), (84, 12410), (108, 12503), (122, 12563), (124, 12575), (143, 12650), (155, 12701), (164, 12743), (168, 12764), (177, 12803), (193, 12881), (212, 12959), (218, 12983), (252, 13124), (275, 13217), (277, 13226), (280, 13238), (282, 13247), (358, 13484), (365, 13508), (370, 13523), (382, 13556), (406, 13643), (414, 13667), (440, 13751), (471, 13835), (475, 13847), (479, 13868), (493, 13949), (608, 14024), (625, 14105), (640, 14153), (643, 14171), (646, 14183), (647, 14192), (654, 14228), (670, 14279), (690, 14336), (711, 14414), (714, 14423), (737, 14501), (744, 14516), (758, 14558), (774, 14612), (831, 14852), (857, 14927), (892, 15038), (918, 15257), (921, 15269), (940, 15371), (952, 15452), (953, 15461), (981, 15533), (997, 15563), (1003, 15584), (1045, 15704), (1062, 15776), (1064, 15794), (1065, 15800),

Gene: Psycho_19 Start: 12089, Stop: 16222, Start Num: 18

Candidate Starts for Psycho_19:

(Start: 18 @12089 has 1 MA's), (Start: 20 @12110 has 36 MA's), (Start: 35 @12203 has 1 MA's), (45, 12281), (46, 12305), (58, 12365), (79, 12449), (108, 12563), (122, 12623), (124, 12635), (129, 12656), (143, 12710), (154, 12758), (164, 12803), (168, 12824), (193, 12941), (212, 13019), (218, 13043), (229, 13085), (237, 13109), (252, 13184), (275, 13277), (282, 13307), (338, 13481), (350, 13520), (358, 13544), (364, 13565), (385, 13625), (406, 13703), (409, 13712), (434, 13790), (460, 13856), (472, 13898), (475, 13907), (488, 13991), (494, 14012), (500, 14045), (518, 14111), (524, 14132), (541, 14186), (544, 14195), (551, 14213), (562, 14240), (572, 14270), (581, 14306), (605, 14396), (608, 14402), (611, 14420), (638, 14525), (650, 14591), (711, 14786), (719, 14816), (730, 14849), (749, 14900), (753, 14921), (760, 14936), (761, 14942), (783, 15026), (797, 15074), (806, 15113), (819, 15173), (829, 15206), (834, 15227), (842, 15251), (853, 15281), (878, 15347), (895, 15419), (940, 15734), (941, 15743), (942, 15746), (944, 15773), (948, 15788), (950, 15803), (952, 15815), (959, 15845), (981, 15899), (989, 15917), (1023, 15986), (1036, 16034), (1045, 16058), (1049, 16070), (1053, 16079), (1066, 16151), (1068, 16175), (1073, 16214),

Gene: Qhanda_22 Start: 13333, Stop: 17508, Start Num: 22

Candidate Starts for Qhanda_22:

(15, 13297), (Start: 22 @13333 has 64 MA's), (38, 13432), (47, 13531), (106, 13771), (108, 13780), (129, 13873), (164, 14020), (168, 14041), (177, 14080), (178, 14083), (193, 14158), (212, 14236), (235, 14323), (237, 14326), (244, 14356), (249, 14389), (255, 14413), (276, 14497), (283, 14527), (291, 14554), (328, 14662), (334, 14683), (337, 14695), (341, 14707), (358, 14761), (406, 14920),

(413, 14941), (440, 15049), (476, 15169), (572, 15529), (586, 15580), (588, 15589), (601, 15634), (605, 15655), (664, 15874), (669, 15886), (672, 15895), (698, 15967), (711, 16018), (712, 16021), (719, 16048), (758, 16147), (765, 16165), (782, 16240), (829, 16429), (831, 16441), (857, 16516), (898, 16702), (914, 16822), (926, 16930), (952, 17080), (989, 17200), (997, 17209), (998, 17212), (1033, 17311), (1044, 17338), (1065, 17434), (1071, 17497),

Gene: QuincyRose_20 Start: 12096, Stop: 15929, Start Num: 21

Candidate Starts for QuincyRose_20:

(Start: 21 @12096 has 179 MA's), (Start: 33 @12165 has 1 MA's), (43, 12252), (78, 12429), (84, 12456), (106, 12540), (108, 12549), (124, 12621), (143, 12696), (162, 12780), (164, 12789), (168, 12810), (177, 12849), (193, 12927), (212, 13005), (237, 13095), (252, 13170), (275, 13263), (280, 13284), (282, 13293), (330, 13437), (358, 13530), (370, 13569), (382, 13602), (406, 13689), (414, 13713), (440, 13797), (471, 13881), (475, 13893), (479, 13914), (608, 14070), (625, 14151), (640, 14199), (643, 14217), (647, 14238), (654, 14274), (670, 14325), (690, 14382), (711, 14460), (714, 14469), (737, 14547), (758, 14604), (774, 14658), (831, 14898), (857, 14973), (892, 15084), (918, 15303), (921, 15315), (952, 15498), (953, 15507), (981, 15579), (997, 15609), (1003, 15630), (1045, 15750), (1062, 15822), (1064, 15840), (1065, 15846),

Gene: Rabbs_16 Start: 11454, Stop: 15479, Start Num: 21

Candidate Starts for Rabbs_16:

(Start: 21 @11454 has 179 MA's), (27, 11478), (47, 11655), (75, 11769), (84, 11811), (87, 11832), (90, 11841), (124, 11976), (129, 11997), (164, 12144), (174, 12186), (177, 12204), (178, 12207), (183, 12228), (186, 12240), (212, 12360), (229, 12426), (246, 12492), (250, 12516), (269, 12597), (304, 12720), (310, 12741), (341, 12831), (344, 12840), (359, 12891), (371, 12924), (376, 12942), (393, 12999), (406, 13044), (434, 13131), (440, 13152), (475, 13248), (478, 13263), (494, 13353), (507, 13410), (509, 13413), (559, 13572), (562, 13581), (571, 13608), (608, 13743), (640, 13872), (646, 13902), (707, 14124), (717, 14148), (721, 14163), (726, 14184), (749, 14238), (769, 14298), (790, 14388), (795, 14421), (799, 14436), (812, 14484), (823, 14541), (831, 14574), (923, 15006), (942, 15096), (944, 15123), (952, 15165), (953, 15174), (981, 15243), (993, 15270), (1023, 15327), (1040, 15387), (1047, 15405), (1050, 15414),

Gene: Ramen_21 Start: 12079, Stop: 15915, Start Num: 21

Candidate Starts for Ramen_21:

(Start: 21 @12079 has 179 MA's), (Start: 33 @12148 has 1 MA's), (43, 12235), (78, 12412), (84, 12439), (103, 12511), (106, 12523), (108, 12532), (124, 12604), (143, 12679), (162, 12763), (164, 12772), (168, 12793), (177, 12832), (193, 12910), (212, 12988), (237, 13078), (252, 13153), (275, 13246), (277, 13255), (280, 13267), (282, 13276), (365, 13537), (370, 13552), (382, 13585), (406, 13672), (414, 13696), (440, 13780), (471, 13864), (475, 13876), (479, 13897), (608, 14053), (625, 14134), (640, 14182), (643, 14200), (647, 14221), (654, 14257), (670, 14308), (690, 14365), (711, 14443), (714, 14452), (737, 14530), (758, 14587), (774, 14641), (831, 14881), (857, 14956), (892, 15067), (918, 15286), (921, 15298), (952, 15484), (953, 15493), (981, 15565), (997, 15595), (1003, 15616), (1045, 15736), (1062, 15808), (1064, 15826), (1065, 15832),

Gene: Rando14_19 Start: 11071, Stop: 14910, Start Num: 20

Candidate Starts for Rando14_19:

(Start: 20 @11071 has 36 MA's), (37, 11170), (51, 11257), (53, 11269), (73, 11335), (75, 11347), (78, 11359), (83, 11377), (124, 11533), (129, 11554), (149, 11638), (154, 11656), (160, 11686), (162, 11692), (164, 11701), (168, 11722), (175, 11749), (176, 11755), (182, 11779), (193, 11839), (212, 11917), (221, 11950), (223, 11962), (233, 11995), (250, 12073), (254, 12091), (259, 12115), (261, 12127), (263, 12130), (303, 12250), (310, 12274), (333, 12337), (334, 12340), (338, 12355), (358, 12418), (400, 12466), (460, 12559), (464, 12574), (494, 12715), (500, 12748), (537, 12877), (541, 12889), (544, 12898), (550, 12913), (558, 12931), (562, 12943), (572, 12973), (583, 13012), (587, 13030), (588, 13033), (605, 13099), (608, 13105), (613, 13135), (620, 13165), (633, 13210), (638,

13228), (641, 13240), (675, 13375), (682, 13390), (711, 13471), (712, 13474), (727, 13528), (747, 13576), (750, 13585), (755, 13609), (761, 13630), (789, 13729), (790, 13732), (803, 13795), (812, 13828), (825, 13888), (831, 13921), (835, 13936), (839, 13942), (858, 13987), (868, 14008), (874, 14035), (905, 14170), (913, 14245), (923, 14335), (940, 14422), (941, 14431), (942, 14434), (944, 14461), (950, 14491), (952, 14503), (959, 14533), (981, 14587), (989, 14605), (1023, 14674), (1045, 14746), (1053, 14767), (1066, 14839), (1068, 14863), (1074, 14902),

Gene: Rapunzel97_21 Start: 12080, Stop: 15916, Start Num: 21

Candidate Starts for Rapunzel97_21:

(Start: 21 @12080 has 179 MA's), (Start: 33 @12149 has 1 MA's), (43, 12236), (78, 12413), (84, 12440), (103, 12512), (106, 12524), (108, 12533), (124, 12605), (143, 12680), (162, 12764), (164, 12773), (168, 12794), (177, 12833), (193, 12911), (212, 12989), (237, 13079), (252, 13154), (275, 13247), (277, 13256), (280, 13268), (282, 13277), (365, 13538), (370, 13553), (382, 13586), (406, 13673), (414, 13697), (440, 13781), (471, 13865), (475, 13877), (479, 13898), (608, 14054), (625, 14135), (640, 14183), (643, 14201), (647, 14222), (654, 14258), (670, 14309), (690, 14366), (711, 14444), (714, 14453), (737, 14531), (758, 14588), (774, 14642), (831, 14882), (857, 14957), (892, 15068), (918, 15287), (921, 15299), (952, 15485), (953, 15494), (981, 15566), (997, 15596), (1003, 15617), (1045, 15737), (1062, 15809), (1064, 15827), (1065, 15833),

Gene: Rattrick_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Rattrick_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Remy19_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Remy19_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Renaissance_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Renaissance_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385),

(1047, 15403), (1050, 15412),

Gene: Reptar3000_22 Start: 13066, Stop: 17232, Start Num: 22

Candidate Starts for Reptar3000_22:

(15, 13030), (Start: 22 @13066 has 64 MA's), (47, 13264), (103, 13492), (106, 13504), (108, 13513), (113, 13543), (129, 13606), (164, 13753), (168, 13774), (177, 13813), (178, 13816), (193, 13891), (212, 13969), (235, 14056), (237, 14059), (244, 14089), (249, 14122), (255, 14146), (276, 14230), (283, 14260), (291, 14287), (328, 14395), (334, 14416), (337, 14428), (341, 14440), (358, 14494), (406, 14653), (413, 14674), (440, 14782), (476, 14902), (532, 15151), (572, 15262), (586, 15313), (588, 15322), (601, 15367), (605, 15388), (635, 15487), (640, 15502), (641, 15508), (657, 15577), (662, 15598), (664, 15607), (669, 15619), (672, 15628), (698, 15700), (711, 15751), (712, 15754), (719, 15781), (758, 15880), (765, 15898), (782, 15973), (829, 16162), (831, 16174), (857, 16249), (898, 16429), (914, 16549), (926, 16657), (939, 16717), (952, 16804), (957, 16834), (989, 16924), (997, 16933), (998, 16936), (1033, 17035), (1044, 17062), (1065, 17158), (1071, 17221),

Gene: Richarlison_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Richarlison_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Richo_21 Start: 11128, Stop: 15282, Start Num: 22

Candidate Starts for Richo_21:

(15, 11086), (Start: 22 @11128 has 64 MA's), (37, 11221), (61, 11380), (70, 11407), (93, 11497), (94, 11500), (115, 11587), (142, 11695), (158, 11764), (162, 11782), (181, 11866), (188, 11908), (192, 11923), (195, 11932), (202, 11959), (218, 12022), (229, 12064), (246, 12133), (259, 12196), (260, 12205), (289, 12319), (292, 12325), (303, 12361), (305, 12370), (308, 12382), (313, 12394), (318, 12412), (336, 12472), (340, 12484), (342, 12490), (346, 12505), (352, 12523), (353, 12526), (359, 12544), (364, 12559), (376, 12598), (395, 12655), (398, 12664), (406, 12694), (413, 12715), (420, 12745), (433, 12778), (462, 12862), (471, 12892), (475, 12904), (493, 13006), (513, 13084), (524, 13129), (531, 13153), (550, 13207), (551, 13210), (558, 13225), (572, 13267), (578, 13294), (581, 13303), (586, 13318), (587, 13324), (588, 13327), (622, 13468), (633, 13504), (634, 13510), (640, 13528), (645, 13555), (647, 13567), (659, 13621), (670, 13654), (691, 13714), (711, 13795), (712, 13798), (737, 13882), (744, 13897), (782, 14032), (799, 14098), (831, 14233), (914, 14584), (952, 14839), (953, 14848), (972, 14914), (1045, 15109), (1053, 15130), (1062, 15181), (1064, 15199), (1065, 15205), (1069, 15244),

Gene: Rosmarinus_21 Start: 12104, Stop: 15937, Start Num: 21

Candidate Starts for Rosmarinus_21:

(Start: 21 @12104 has 179 MA's), (Start: 33 @12173 has 1 MA's), (43, 12260), (54, 12335), (78, 12437), (84, 12464), (103, 12536), (106, 12548), (108, 12557), (124, 12629), (143, 12704), (162, 12788), (164, 12797), (168, 12818), (177, 12857), (186, 12893), (193, 12935), (212, 13013), (237, 13103), (252, 13178), (275, 13271), (277, 13280), (280, 13292), (282, 13301), (358, 13538), (370, 13577), (382, 13610), (406, 13697), (414, 13721), (440, 13805), (471, 13889), (475, 13901), (479, 13922), (608, 14078), (625, 14159), (640, 14207), (643, 14225), (647, 14246), (654, 14282), (670, 14333), (690, 14390), (711, 14468), (714, 14477), (737, 14555), (744, 14570), (758, 14612), (774, 14666), (831, 14906), (857, 14981), (892, 15092), (918, 15311), (921, 15323), (952, 15506), (953,

15515), (981, 15587), (997, 15617), (1003, 15638), (1045, 15758), (1062, 15830), (1064, 15848), (1065, 15854),

Gene: Ruriko_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Ruriko_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Ruthiejr_21 Start: 12924, Stop: 17120, Start Num: 22

Candidate Starts for Ruthiejr_21:

(Start: 22 @12924 has 64 MA's), (47, 13122), (99, 13335), (106, 13362), (108, 13371), (124, 13443), (129, 13464), (162, 13602), (164, 13611), (168, 13632), (177, 13671), (190, 13740), (193, 13749), (212, 13827), (214, 13839), (237, 13917), (244, 13947), (249, 13980), (250, 13983), (255, 14004), (291, 14145), (294, 14154), (337, 14286), (341, 14298), (358, 14352), (371, 14391), (382, 14424), (406, 14511), (413, 14532), (461, 14709), (476, 14760), (507, 14919), (572, 15120), (586, 15171), (588, 15180), (601, 15225), (605, 15246), (608, 15252), (641, 15366), (664, 15465), (669, 15477), (672, 15486), (698, 15558), (704, 15591), (711, 15609), (712, 15612), (719, 15639), (758, 15738), (765, 15756), (782, 15831), (829, 16020), (831, 16032), (857, 16107), (876, 16176), (898, 16308), (912, 16422), (952, 16689), (955, 16707), (997, 16818), (998, 16821), (1033, 16920), (1044, 16947), (1045, 16950), (1065, 17046), (1071, 17109),

Gene: Salvus_20 Start: 11740, Stop: 15189, Start Num: 89

Candidate Starts for Salvus_20:

(Start: 89 @11740 has 2 MA's), (94, 11755), (107, 11803), (108, 11806), (119, 11851), (147, 11974), (153, 11995), (227, 12301), (230, 12313), (237, 12334), (254, 12418), (267, 12472), (269, 12481), (289, 12568), (293, 12577), (305, 12619), (325, 12664), (329, 12676), (335, 12697), (342, 12721), (359, 12775), (384, 12850), (387, 12862), (393, 12886), (417, 12973), (438, 13030), (465, 13099), (479, 13153), (563, 13309), (574, 13348), (578, 13360), (597, 13423), (608, 13465), (611, 13483), (633, 13570), (640, 13594), (645, 13621), (647, 13633), (661, 13699), (675, 13741), (681, 13750), (700, 13843), (714, 13873), (724, 13909), (734, 13939), (737, 13957), (749, 13984), (750, 13987), (767, 14038), (768, 14041), (769, 14044), (790, 14134), (800, 14182), (803, 14197), (807, 14215), (812, 14230), (824, 14290), (831, 14323), (833, 14332), (836, 14341), (852, 14377), (858, 14392), (909, 14587), (939, 14782), (953, 14878), (956, 14896), (976, 14938), (978, 14944), (990, 14971), (1026, 15073), (1028, 15082), (1041, 15121),

Gene: SamScheppers_20 Start: 12840, Stop: 17027, Start Num: 22

Candidate Starts for SamScheppers_20:

(15, 12804), (Start: 22 @12840 has 64 MA's), (47, 13038), (106, 13278), (108, 13287), (129, 13380), (164, 13527), (168, 13548), (177, 13587), (178, 13590), (193, 13665), (212, 13743), (235, 13830), (237, 13833), (244, 13863), (249, 13896), (255, 13920), (276, 14004), (283, 14034), (291, 14061), (328, 14169), (334, 14190), (337, 14202), (341, 14214), (358, 14268), (406, 14427), (413, 14448), (440, 14556), (476, 14676), (572, 15036), (586, 15087), (588, 15096), (601, 15141), (605, 15162), (664, 15381), (669, 15393), (672, 15402), (698, 15474), (711, 15525), (712, 15528), (719, 15555), (758, 15654), (765, 15672), (782, 15747), (829, 15936), (831, 15948), (857, 16023), (898, 16224), (914, 16344), (926, 16452), (952, 16599), (989, 16719), (997, 16728), (998, 16731), (1033, 16830), (1044, 16857), (1065, 16953), (1071, 17016),

Gene: SamuelLPlaqson_21 Start: 12024, Stop: 15863, Start Num: 21

Candidate Starts for SamuelLPlaqson_21:

(Start: 21 @12024 has 179 MA's), (Start: 33 @12093 has 1 MA's), (43, 12180), (78, 12360), (84, 12387), (106, 12471), (108, 12480), (122, 12540), (124, 12552), (143, 12627), (155, 12678), (164, 12720), (168, 12741), (177, 12780), (193, 12858), (212, 12936), (218, 12960), (252, 13101), (275, 13194), (280, 13215), (282, 13224), (358, 13461), (365, 13485), (370, 13500), (382, 13533), (406, 13620), (434, 13707), (440, 13728), (471, 13812), (475, 13824), (479, 13845), (608, 14001), (625, 14082), (643, 14148), (647, 14169), (654, 14205), (670, 14256), (680, 14274), (690, 14313), (711, 14391), (737, 14478), (744, 14493), (758, 14535), (774, 14589), (831, 14829), (857, 14904), (892, 15015), (895, 15036), (898, 15057), (914, 15177), (940, 15351), (952, 15432), (953, 15441), (981, 15513), (997, 15543), (1003, 15564), (1045, 15684), (1062, 15756), (1064, 15774), (1065, 15780),

Gene: Sapo_14 Start: 9155, Stop: 13762, Start Num: 5

Candidate Starts for Sapo_14:

(Start: 5 @9155 has 4 MA's), (24, 9350), (42, 9476), (57, 9605), (67, 9644), (80, 9695), (86, 9728), (100, 9770), (184, 10118), (226, 10283), (271, 10475), (293, 10571), (316, 10658), (411, 10952), (418, 10979), (425, 11006), (433, 11042), (461, 11126), (472, 11165), (475, 11174), (495, 11282), (526, 11417), (533, 11453), (552, 11519), (572, 11579), (601, 11684), (639, 11837), (643, 11858), (644, 11861), (646, 11870), (676, 12005), (691, 12077), (711, 12170), (714, 12179), (718, 12197), (724, 12215), (752, 12302), (778, 12389), (785, 12425), (831, 12617), (845, 12644), (900, 12902), (919, 13037), (924, 13073), (930, 13103), (937, 13148), (945, 13202), (1000, 13475), (1004, 13493), (1030, 13664), (1033, 13679), (1038, 13691), (1042, 13700), (1054, 13742),

Gene: Scarlett_20 Start: 11082, Stop: 15158, Start Num: 22

Candidate Starts for Scarlett_20:

(Start: 22 @11082 has 64 MA's), (37, 11175), (55, 11307), (91, 11445), (111, 11523), (113, 11535), (115, 11541), (123, 11574), (132, 11610), (146, 11667), (148, 11679), (161, 11733), (167, 11763), (188, 11850), (192, 11865), (202, 11901), (226, 11994), (246, 12075), (289, 12258), (293, 12267), (305, 12309), (318, 12351), (336, 12411), (340, 12423), (342, 12429), (346, 12444), (353, 12465), (364, 12498), (403, 12621), (406, 12633), (408, 12639), (413, 12654), (415, 12660), (472, 12744), (485, 12825), (524, 12978), (558, 13074), (562, 13086), (572, 13116), (586, 13167), (591, 13188), (600, 13218), (602, 13224), (608, 13248), (620, 13308), (634, 13359), (645, 13404), (647, 13416), (659, 13470), (670, 13503), (690, 13560), (711, 13638), (712, 13641), (737, 13725), (749, 13752), (758, 13782), (774, 13836), (782, 13875), (831, 14076), (847, 14118), (857, 14151), (914, 14439), (918, 14496), (952, 14697), (983, 14811), (1045, 14988), (1062, 15072), (1065, 15093),

Gene: Schiebel_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Schiebel_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Schmidt_18 Start: 10553, Stop: 13858, Start Num: 31

Candidate Starts for Schmidt_18:

(26, 10511), (Start: 31 @10553 has 11 MA's), (39, 10595), (56, 10739), (63, 10763), (74, 10802), (75, 10808), (130, 11033), (141, 11066), (150, 11081), (170, 11150), (176, 11168), (190, 11204), (191,

11207), (198, 11237), (231, 11351), (239, 11378), (257, 11450), (264, 11474), (309, 11582), (314, 11609), (323, 11621), (342, 11675), (375, 11771), (379, 11780), (387, 11795), (389, 11801), (392, 11813), (405, 11846), (417, 11891), (421, 11906), (423, 11912), (431, 11948), (435, 11963), (444, 11987), (448, 11996), (463, 12038), (483, 12095), (488, 12107), (489, 12110), (522, 12164), (540, 12200), (556, 12236), (561, 12248), (568, 12260), (570, 12263), (620, 12362), (624, 12377), (653, 12506), (671, 12584), (690, 12671), (713, 12773), (718, 12794), (719, 12797), (727, 12824), (736, 12854), (758, 12893), (764, 12911), (829, 13175), (831, 13187), (887, 13331), (913, 13424), (938, 13520), (959, 13613), (962, 13631), (969, 13667), (974, 13682), (992, 13763), (994, 13766), (995, 13778), (997, 13784), (1013, 13853),

Gene: SgtBeansprout_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for SgtBeansprout_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: ShaboiShabazz_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for ShaboiShabazz_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Shadow1_19 Start: 10962, Stop: 14963, Start Num: 22

Candidate Starts for Shadow1_19:

(Start: 22 @10962 has 64 MA's), (37, 11055), (49, 11160), (61, 11214), (66, 11232), (72, 11250), (80, 11280), (86, 11307), (87, 11313), (123, 11454), (127, 11472), (128, 11475), (158, 11589), (161, 11604), (188, 11721), (192, 11736), (213, 11817), (232, 11886), (246, 11946), (289, 12129), (292, 12135), (308, 12192), (336, 12282), (340, 12294), (342, 12300), (346, 12315), (353, 12336), (359, 12354), (384, 12429), (403, 12492), (406, 12504), (413, 12525), (442, 12564), (470, 12609), (475, 12624), (507, 12786), (532, 12876), (559, 12948), (572, 12987), (586, 13038), (591, 13059), (600, 13089), (602, 13095), (608, 13119), (618, 13170), (643, 13266), (647, 13287), (654, 13323), (670, 13374), (711, 13515), (737, 13602), (749, 13629), (774, 13713), (831, 13953), (857, 14028), (920, 14361), (940, 14463), (941, 14472), (952, 14544), (953, 14553), (981, 14628), (997, 14658), (1005, 14679), (1045, 14796), (1057, 14847), (1062, 14871), (1067, 14910), (1068, 14922),

Gene: Shaobing_21 Start: 11128, Stop: 15282, Start Num: 22

Candidate Starts for Shaobing_21:

(15, 11086), (Start: 22 @11128 has 64 MA's), (37, 11221), (61, 11380), (70, 11407), (93, 11497), (94, 11500), (115, 11587), (142, 11695), (158, 11764), (162, 11782), (181, 11866), (188, 11908), (192, 11923), (195, 11932), (202, 11959), (218, 12022), (229, 12064), (246, 12133), (259, 12196), (260,

12205), (289, 12319), (292, 12325), (303, 12361), (305, 12370), (308, 12382), (313, 12394), (318, 12412), (336, 12472), (340, 12484), (342, 12490), (346, 12505), (352, 12523), (353, 12526), (359, 12544), (364, 12559), (376, 12598), (395, 12655), (398, 12664), (405, 12688), (406, 12694), (413, 12715), (420, 12745), (433, 12778), (462, 12862), (471, 12892), (475, 12904), (493, 13006), (513, 13084), (524, 13129), (531, 13153), (550, 13207), (551, 13210), (558, 13225), (572, 13267), (578, 13294), (581, 13303), (586, 13318), (587, 13324), (588, 13327), (622, 13468), (633, 13504), (634, 13510), (640, 13528), (645, 13555), (647, 13567), (659, 13621), (670, 13654), (691, 13714), (711, 13795), (712, 13798), (737, 13882), (744, 13897), (782, 14032), (799, 14098), (831, 14233), (914, 14584), (952, 14839), (953, 14848), (972, 14914), (1045, 15109), (1053, 15130), (1062, 15181), (1064, 15199), (1065, 15205), (1069, 15244),

Gene: ShedlockHolmes_20 Start: 12197, Stop: 16345, Start Num: 21

Candidate Starts for ShedlockHolmes_20:

(Start: 21 @12197 has 179 MA's), (Start: 33 @12266 has 1 MA's), (Start: 35 @12287 has 1 MA's), (37, 12293), (43, 12353), (69, 12491), (79, 12536), (84, 12557), (95, 12602), (122, 12710), (124, 12722), (129, 12743), (143, 12797), (149, 12827), (155, 12848), (162, 12881), (164, 12890), (168, 12911), (177, 12950), (193, 13028), (203, 13070), (212, 13106), (218, 13130), (259, 13304), (275, 13364), (280, 13385), (282, 13394), (336, 13562), (343, 13583), (350, 13607), (358, 13631), (364, 13652), (371, 13670), (382, 13703), (393, 13745), (394, 13748), (395, 13751), (406, 13790), (409, 13799), (432, 13868), (464, 13979), (474, 14009), (517, 14207), (524, 14240), (556, 14330), (562, 14348), (572, 14378), (578, 14405), (634, 14621), (643, 14657), (654, 14714), (659, 14732), (670, 14765), (673, 14777), (691, 14825), (711, 14906), (712, 14909), (758, 15026), (782, 15119), (802, 15197), (826, 15296), (831, 15320), (857, 15395), (940, 15854), (942, 15866), (952, 15935), (953, 15944), (1029, 16136), (1035, 16154), (1049, 16190), (1053, 16199), (1064, 16265), (1065, 16271), (1067, 16286), (1068, 16298),

Gene: ShiaSurprise_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for ShiaSurprise_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: SirPhilip_20 Start: 10854, Stop: 14759, Start Num: 22

Candidate Starts for SirPhilip_20:

(Start: 22 @10854 has 64 MA's), (37, 10947), (49, 11052), (60, 11103), (61, 11106), (87, 11205), (110, 11286), (111, 11295), (121, 11334), (123, 11346), (127, 11364), (128, 11367), (131, 11376), (143, 11424), (146, 11439), (152, 11457), (154, 11463), (156, 11475), (188, 11613), (192, 11628), (211, 11694), (213, 11709), (289, 12021), (304, 12066), (305, 12072), (308, 12084), (318, 12114), (336, 12174), (340, 12186), (342, 12192), (346, 12207), (353, 12228), (359, 12246), (360, 12249), (394, 12354), (406, 12396), (413, 12417), (442, 12456), (474, 12510), (475, 12516), (524, 12675), (536, 12708), (569, 12753), (571, 12756), (572, 12759), (578, 12786), (580, 12789), (581, 12795), (588, 12819), (599, 12852), (605, 12885), (622, 12960), (638, 13014), (640, 13020), (643, 13038), (647, 13059), (653, 13092), (691, 13206), (711, 13287), (712, 13290), (737, 13374), (774, 13485), (782, 13524), (798, 13584), (831, 13725), (857, 13800), (941, 14253), (952, 14325), (968, 14379), (983, 14430), (1029, 14556), (1045, 14598), (1062, 14673), (1065, 14694),

Gene: Sizemore_16 Start: 11465, Stop: 15478, Start Num: 21

Candidate Starts for Sizemore_16:

(Start: 21 @11465 has 179 MA's), (47, 11666), (75, 11780), (84, 11822), (90, 11852), (124, 11987), (126, 11999), (129, 12008), (174, 12197), (177, 12215), (178, 12218), (183, 12239), (186, 12251), (199, 12323), (212, 12371), (246, 12503), (250, 12527), (269, 12608), (304, 12731), (333, 12815), (344, 12851), (358, 12896), (359, 12902), (393, 13010), (401, 13034), (406, 13055), (478, 13274), (509, 13424), (532, 13511), (571, 13619), (608, 13754), (634, 13865), (640, 13883), (646, 13913), (707, 14135), (717, 14159), (721, 14174), (726, 14195), (737, 14222), (749, 14249), (769, 14309), (790, 14399), (795, 14432), (812, 14495), (823, 14552), (831, 14585), (833, 14594), (942, 15098), (944, 15125), (950, 15155), (952, 15167), (953, 15176), (981, 15245), (1023, 15326), (1040, 15386), (1047, 15404), (1050, 15413),

Gene: Slarp_22 Start: 13324, Stop: 17499, Start Num: 22

Candidate Starts for Slarp_22:

(15, 13288), (Start: 22 @13324 has 64 MA's), (38, 13423), (47, 13522), (106, 13762), (108, 13771), (129, 13864), (164, 14011), (168, 14032), (177, 14071), (178, 14074), (193, 14149), (212, 14227), (235, 14314), (237, 14317), (244, 14347), (249, 14380), (255, 14404), (276, 14488), (283, 14518), (291, 14545), (328, 14653), (334, 14674), (337, 14686), (341, 14698), (358, 14752), (406, 14911), (413, 14932), (440, 15040), (476, 15160), (572, 15520), (586, 15571), (588, 15580), (601, 15625), (605, 15646), (664, 15865), (669, 15877), (672, 15886), (698, 15958), (711, 16009), (712, 16012), (719, 16039), (758, 16138), (765, 16156), (782, 16231), (829, 16420), (831, 16432), (857, 16507), (898, 16693), (914, 16813), (926, 16921), (952, 17071), (989, 17191), (997, 17200), (998, 17203), (1033, 17302), (1044, 17329), (1065, 17425), (1071, 17488),

Gene: Slimphazie_21 Start: 12080, Stop: 15916, Start Num: 21

Candidate Starts for Slimphazie_21:

(Start: 21 @12080 has 179 MA's), (Start: 33 @12149 has 1 MA's), (43, 12236), (78, 12413), (84, 12440), (103, 12512), (106, 12524), (108, 12533), (124, 12605), (143, 12680), (162, 12764), (164, 12773), (168, 12794), (177, 12833), (193, 12911), (212, 12989), (237, 13079), (252, 13154), (275, 13247), (277, 13256), (280, 13268), (282, 13277), (365, 13538), (370, 13553), (382, 13586), (406, 13673), (414, 13697), (440, 13781), (471, 13865), (475, 13877), (479, 13898), (608, 14054), (625, 14135), (640, 14183), (643, 14201), (647, 14222), (654, 14258), (670, 14309), (690, 14366), (711, 14444), (714, 14453), (737, 14531), (758, 14588), (774, 14642), (831, 14882), (857, 14957), (892, 15068), (918, 15287), (921, 15299), (952, 15485), (953, 15494), (981, 15566), (997, 15596), (1003, 15617), (1045, 15737), (1062, 15809), (1064, 15827), (1065, 15833),

Gene: Sneeze_16 Start: 11453, Stop: 15478, Start Num: 21

Candidate Starts for Sneeze_16:

(Start: 21 @11453 has 179 MA's), (27, 11477), (47, 11654), (75, 11768), (84, 11810), (87, 11831), (90, 11840), (124, 11975), (129, 11996), (164, 12143), (174, 12185), (177, 12203), (178, 12206), (183, 12227), (186, 12239), (212, 12359), (229, 12425), (246, 12491), (250, 12515), (269, 12596), (304, 12719), (310, 12740), (341, 12830), (344, 12839), (359, 12890), (371, 12923), (376, 12941), (393, 12998), (406, 13043), (434, 13130), (440, 13151), (475, 13247), (478, 13262), (494, 13352), (507, 13409), (509, 13412), (559, 13571), (562, 13580), (571, 13607), (608, 13742), (640, 13871), (646, 13901), (707, 14123), (717, 14147), (721, 14162), (726, 14183), (749, 14237), (769, 14297), (790, 14387), (795, 14420), (799, 14435), (812, 14483), (823, 14540), (831, 14573), (923, 15005), (942, 15095), (944, 15122), (952, 15164), (953, 15173), (981, 15242), (993, 15269), (1023, 15326), (1040, 15386), (1047, 15404), (1050, 15413),

Gene: SoSeph_19 Start: 12264, Stop: 16394, Start Num: 20

Candidate Starts for SoSeph_19:

(Start: 20 @12264 has 36 MA's), (Start: 35 @12357 has 1 MA's), (45, 12435), (46, 12459), (58, 12519), (79, 12603), (82, 12615), (108, 12717), (122, 12777), (124, 12789), (129, 12810), (143, 12864), (154,

12912), (164, 12957), (168, 12978), (193, 13095), (212, 13173), (218, 13197), (237, 13263), (252, 13338), (275, 13431), (282, 13461), (338, 13635), (341, 13644), (350, 13674), (358, 13698), (364, 13719), (385, 13779), (406, 13857), (409, 13866), (434, 13944), (460, 14010), (472, 14052), (475, 14061), (488, 14145), (494, 14166), (500, 14199), (541, 14340), (544, 14349), (551, 14367), (562, 14394), (584, 14472), (608, 14556), (638, 14679), (650, 14745), (711, 14940), (719, 14970), (727, 14997), (730, 15003), (738, 15030), (753, 15075), (760, 15090), (761, 15096), (783, 15180), (797, 15228), (806, 15267), (819, 15327), (829, 15360), (834, 15381), (842, 15405), (853, 15438), (878, 15522), (895, 15594), (940, 15903), (948, 15957), (950, 15972), (952, 15984), (959, 16014), (1036, 16200), (1045, 16224), (1049, 16236), (1066, 16323), (1068, 16347),

Gene: Splinter_20 Start: 12184, Stop: 15645, Start Num: 31

Candidate Starts for Splinter_20:

(Start: 31 @12184 has 11 MA's), (39, 12226), (42, 12259), (61, 12364), (62, 12367), (157, 12652), (170, 12703), (221, 12859), (223, 12871), (227, 12880), (242, 12934), (245, 12946), (266, 13027), (315, 13156), (322, 13165), (331, 13183), (349, 13243), (355, 13258), (371, 13306), (407, 13393), (415, 13417), (431, 13480), (443, 13516), (447, 13525), (451, 13534), (463, 13576), (479, 13633), (489, 13660), (496, 13690), (520, 13705), (530, 13723), (536, 13759), (545, 13783), (550, 13795), (557, 13819), (569, 13858), (585, 13912), (592, 13939), (606, 13993), (608, 13996), (624, 14035), (627, 14047), (647, 14110), (653, 14143), (655, 14152), (660, 14167), (663, 14185), (683, 14263), (691, 14290), (718, 14407), (719, 14410), (730, 14443), (733, 14452), (745, 14488), (758, 14536), (799, 14695), (831, 14830), (865, 14905), (892, 15007), (908, 15103), (910, 15112), (915, 15169), (927, 15244), (928, 15250), (931, 15265), (936, 15289), (961, 15406), (963, 15418), (967, 15445), (974, 15463), (995, 15565), (997, 15571), (1010, 15625), (1013, 15640),

Gene: Spock_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Spock_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Stargaze_16 Start: 11766, Stop: 15800, Start Num: 22

Candidate Starts for Stargaze_16:

(Start: 22 @11766 has 64 MA's), (37, 11862), (47, 11967), (66, 12042), (72, 12060), (75, 12072), (80, 12090), (86, 12117), (87, 12123), (115, 12231), (117, 12237), (121, 12252), (123, 12264), (127, 12282), (139, 12327), (149, 12363), (153, 12378), (156, 12393), (158, 12399), (181, 12501), (188, 12543), (192, 12558), (202, 12594), (218, 12657), (223, 12678), (225, 12687), (243, 12750), (246, 12768), (281, 12909), (289, 12951), (300, 12981), (301, 12984), (303, 12993), (305, 13002), (318, 13044), (339, 13113), (340, 13116), (342, 13122), (346, 13137), (353, 13158), (356, 13167), (387, 13263), (401, 13305), (406, 13326), (414, 13350), (416, 13362), (417, 13365), (437, 13422), (449, 13455), (462, 13494), (475, 13536), (476, 13539), (494, 13641), (509, 13701), (513, 13716), (522, 13752), (541, 13815), (549, 13836), (571, 13896), (602, 14007), (608, 14031), (618, 14082), (619, 14088), (650, 14220), (694, 14352), (716, 14436), (719, 14451), (739, 14517), (763, 14586), (781, 14667), (784, 14676), (807, 14769), (817, 14826), (828, 14859), (850, 14919), (854, 14934), (914, 15213), (942, 15402), (944, 15429), (952, 15471), (1027, 15708), (1031, 15726), (1037, 15741), (1043, 15753),

Gene: Stinson_21 Start: 12048, Stop: 15881, Start Num: 21

Candidate Starts for Stinson_21:

(Start: 21 @12048 has 179 MA's), (Start: 33 @12117 has 1 MA's), (43, 12204), (78, 12384), (84, 12411), (106, 12495), (108, 12504), (122, 12564), (124, 12576), (143, 12651), (152, 12693), (162, 12735), (164, 12744), (168, 12765), (177, 12804), (193, 12882), (212, 12960), (252, 13125), (275, 13218), (280, 13239), (282, 13248), (358, 13485), (365, 13509), (370, 13524), (382, 13557), (406, 13644), (440, 13752), (471, 13836), (475, 13848), (479, 13869), (493, 13950), (608, 14025), (625, 14106), (629, 14115), (640, 14154), (643, 14172), (647, 14193), (654, 14229), (670, 14280), (690, 14337), (711, 14415), (714, 14424), (737, 14502), (744, 14517), (758, 14559), (774, 14613), (831, 14853), (857, 14928), (892, 15039), (918, 15258), (940, 15372), (952, 15453), (953, 15462), (981, 15534), (997, 15564), (1003, 15585), (1045, 15702), (1062, 15774), (1065, 15798),

Gene: Strobilo_17 Start: 10116, Stop: 13787, Start Num: 20

Candidate Starts for Strobilo_17:

(Start: 20 @10116 has 36 MA's), (Start: 33 @10188 has 1 MA's), (83, 10422), (103, 10473), (124, 10566), (129, 10587), (143, 10641), (164, 10734), (168, 10755), (174, 10776), (175, 10782), (193, 10872), (203, 10914), (212, 10950), (221, 10983), (223, 10995), (230, 11019), (237, 11040), (243, 11064), (244, 11070), (250, 11106), (252, 11115), (259, 11148), (261, 11160), (269, 11187), (333, 11370), (336, 11382), (338, 11388), (344, 11406), (350, 11427), (358, 11451), (365, 11475), (395, 11484), (400, 11499), (411, 11511), (439, 11544), (460, 11592), (490, 11733), (491, 11739), (498, 11775), (508, 11802), (514, 11820), (524, 11850), (562, 11946), (574, 11979), (588, 12015), (607, 12066), (615, 12099), (620, 12120), (630, 12144), (638, 12174), (642, 12195), (718, 12417), (751, 12510), (777, 12588), (811, 12711), (843, 12816), (867, 12864), (940, 13284), (941, 13293), (944, 13323), (1000, 13488), (1045, 13617), (1065, 13710),

Gene: Sulley_21 Start: 12049, Stop: 15882, Start Num: 21

Candidate Starts for Sulley_21:

(Start: 21 @12049 has 179 MA's), (Start: 33 @12118 has 1 MA's), (43, 12205), (78, 12382), (84, 12409), (106, 12493), (108, 12502), (124, 12574), (143, 12649), (162, 12733), (164, 12742), (168, 12763), (177, 12802), (193, 12880), (212, 12958), (237, 13048), (252, 13123), (275, 13216), (280, 13237), (282, 13246), (358, 13483), (370, 13522), (382, 13555), (406, 13642), (414, 13666), (440, 13750), (471, 13834), (475, 13846), (479, 13867), (608, 14023), (625, 14104), (640, 14152), (643, 14170), (647, 14191), (654, 14227), (670, 14278), (690, 14335), (711, 14413), (714, 14422), (737, 14500), (744, 14515), (758, 14557), (774, 14611), (831, 14851), (857, 14926), (892, 15037), (918, 15256), (921, 15268), (952, 15451), (953, 15460), (997, 15562), (1003, 15583), (1045, 15703), (1062, 15775), (1064, 15793), (1065, 15799),

Gene: Sunflower1121_19 Start: 10973, Stop: 14974, Start Num: 22

Candidate Starts for Sunflower1121_19:

(11, 10925), (Start: 22 @10973 has 64 MA's), (37, 11066), (49, 11171), (61, 11225), (66, 11243), (72, 11261), (80, 11291), (86, 11318), (87, 11324), (102, 11369), (123, 11465), (127, 11483), (128, 11486), (158, 11600), (161, 11615), (188, 11732), (192, 11747), (213, 11828), (229, 11888), (232, 11897), (246, 11957), (289, 12140), (292, 12146), (308, 12203), (336, 12293), (340, 12305), (342, 12311), (346, 12326), (353, 12347), (359, 12365), (384, 12440), (403, 12503), (406, 12515), (413, 12536), (442, 12575), (470, 12620), (475, 12635), (507, 12797), (524, 12860), (532, 12887), (559, 12959), (572, 12998), (586, 13049), (591, 13070), (600, 13100), (602, 13106), (608, 13130), (618, 13181), (647, 13298), (654, 13334), (670, 13385), (711, 13526), (737, 13613), (749, 13640), (774, 13724), (831, 13964), (857, 14039), (920, 14372), (940, 14474), (941, 14483), (952, 14555), (953, 14564), (981, 14639), (997, 14669), (1005, 14690), (1045, 14807), (1057, 14858), (1062, 14882), (1067, 14921), (1068, 14933),

Gene: Sweets_16 Start: 11459, Stop: 15472, Start Num: 21

Candidate Starts for Sweets_16:

(Start: 21 @11459 has 179 MA's), (47, 11660), (75, 11774), (84, 11816), (90, 11846), (124, 11981), (126, 11993), (129, 12002), (174, 12191), (177, 12209), (178, 12212), (183, 12233), (186, 12245), (199, 12317), (212, 12365), (246, 12497), (250, 12521), (269, 12602), (304, 12725), (333, 12809), (344, 12845), (358, 12890), (359, 12896), (393, 13004), (401, 13028), (406, 13049), (478, 13268), (509, 13418), (532, 13505), (571, 13613), (608, 13748), (634, 13859), (640, 13877), (646, 13907), (707, 14129), (717, 14153), (721, 14168), (726, 14189), (737, 14216), (749, 14243), (769, 14303), (790, 14393), (795, 14426), (812, 14489), (823, 14546), (831, 14579), (833, 14588), (942, 15092), (944, 15119), (950, 15149), (952, 15161), (953, 15170), (981, 15239), (1023, 15320), (1040, 15380), (1047, 15398), (1050, 15407),

Gene: Syra333_20 Start: 11068, Stop: 15069, Start Num: 22

Candidate Starts for Syra333_20:

(Start: 22 @11068 has 64 MA's), (37, 11161), (49, 11266), (61, 11320), (66, 11338), (72, 11356), (80, 11386), (86, 11413), (87, 11419), (102, 11464), (123, 11560), (127, 11578), (128, 11581), (158, 11695), (161, 11710), (188, 11827), (192, 11842), (213, 11923), (229, 11983), (232, 11992), (246, 12052), (289, 12235), (292, 12241), (308, 12298), (336, 12388), (340, 12400), (342, 12406), (346, 12421), (353, 12442), (359, 12460), (384, 12535), (394, 12568), (403, 12598), (406, 12610), (413, 12631), (442, 12670), (470, 12715), (475, 12730), (507, 12892), (524, 12955), (532, 12982), (559, 13054), (572, 13093), (586, 13144), (591, 13165), (600, 13195), (602, 13201), (608, 13225), (618, 13276), (643, 13372), (647, 13393), (654, 13429), (670, 13480), (711, 13621), (712, 13624), (737, 13708), (749, 13735), (774, 13819), (778, 13831), (831, 14059), (857, 14134), (952, 14650), (953, 14659), (981, 14734), (997, 14764), (1005, 14785), (1045, 14902), (1062, 14977), (1067, 15016), (1068, 15028),

Gene: TBond007_20 Start: 11948, Stop: 16126, Start Num: 21

Candidate Starts for TBond007_20:

(Start: 21 @11948 has 179 MA's), (Start: 33 @12017 has 1 MA's), (Start: 35 @12038 has 1 MA's), (37, 12044), (43, 12104), (69, 12242), (79, 12287), (84, 12308), (122, 12461), (124, 12473), (129, 12494), (143, 12548), (149, 12578), (155, 12599), (162, 12632), (164, 12641), (168, 12662), (177, 12701), (193, 12779), (203, 12821), (212, 12857), (218, 12881), (259, 13055), (269, 13094), (275, 13115), (280, 13136), (282, 13145), (336, 13313), (343, 13334), (350, 13358), (358, 13382), (364, 13403), (371, 13421), (382, 13454), (393, 13496), (394, 13499), (395, 13502), (406, 13541), (409, 13550), (432, 13619), (464, 13730), (474, 13760), (517, 13958), (524, 13991), (556, 14081), (562, 14099), (572, 14129), (578, 14156), (634, 14372), (643, 14408), (654, 14465), (659, 14483), (665, 14504), (670, 14516), (691, 14576), (711, 14657), (722, 14696), (733, 14729), (737, 14744), (739, 14750), (744, 14759), (758, 14801), (782, 14894), (802, 14972), (831, 15095), (857, 15170), (940, 15635), (942, 15647), (952, 15716), (953, 15725), (1029, 15917), (1049, 15971), (1053, 15980), (1064, 16046), (1065, 16052), (1067, 16067), (1068, 16079),

Gene: TClif_20 Start: 11063, Stop: 15118, Start Num: 22

Candidate Starts for TClif_20:

(11, 11015), (Start: 22 @11063 has 64 MA's), (25, 11081), (37, 11156), (61, 11315), (86, 11408), (88, 11417), (94, 11435), (99, 11450), (111, 11504), (121, 11543), (123, 11555), (128, 11576), (139, 11618), (146, 11648), (154, 11672), (179, 11783), (188, 11822), (192, 11837), (195, 11846), (202, 11873), (218, 11936), (246, 12047), (256, 12098), (289, 12230), (304, 12275), (305, 12281), (318, 12323), (336, 12383), (340, 12395), (342, 12401), (346, 12416), (353, 12437), (359, 12455), (364, 12470), (374, 12506), (394, 12563), (403, 12593), (406, 12605), (412, 12623), (464, 12689), (474, 12719), (475, 12725), (492, 12824), (494, 12830), (524, 12950), (539, 12998), (544, 13013), (558, 13046), (562, 13058), (572, 13088), (581, 13124), (586, 13139), (587, 13145), (595, 13172), (602, 13196), (608, 13220), (613, 13250), (618, 13271), (640, 13349), (647, 13388), (654, 13424), (670, 13475), (692, 13538), (711, 13616), (712, 13619), (718, 13643), (737, 13703), (782, 13853), (831, 14054), (857, 14129), (877, 14198), (952, 14678), (953, 14687), (959, 14708), (981, 14783), (983, 14795), (997, 14813), (1005, 14834), (1045, 14951), (1062, 15026), (1064, 15044), (1065, 15050),

(1067, 15065), (1068, 15077), (1069, 15089), (1070, 15092), (1072, 15113),

Gene: TM4_17 Start: 10184, Stop: 13873, Start Num: 20

Candidate Starts for TM4_17:

(Start: 20 @10184 has 36 MA's), (Start: 33 @10256 has 1 MA's), (83, 10490), (103, 10541), (124, 10634), (129, 10655), (143, 10709), (164, 10802), (168, 10823), (174, 10844), (175, 10850), (193, 10940), (203, 10982), (212, 11018), (218, 11042), (221, 11051), (223, 11063), (230, 11087), (237, 11108), (243, 11132), (244, 11138), (250, 11174), (252, 11183), (254, 11192), (259, 11216), (261, 11228), (269, 11255), (333, 11438), (336, 11450), (338, 11456), (350, 11495), (358, 11519), (400, 11567), (411, 11579), (439, 11612), (442, 11618), (491, 11807), (493, 11813), (498, 11843), (508, 11870), (514, 11888), (515, 11894), (524, 11918), (551, 11987), (562, 12014), (574, 12047), (587, 12080), (588, 12083), (607, 12134), (615, 12167), (620, 12188), (630, 12212), (638, 12242), (642, 12263), (741, 12545), (774, 12638), (786, 12686), (788, 12689), (793, 12701), (810, 12782), (818, 12815), (822, 12824), (825, 12830), (831, 12863), (844, 12890), (852, 12908), (861, 12926), (864, 12932), (912, 13178), (940, 13358), (941, 13367), (953, 13448), (1045, 13703), (1065, 13796),

Gene: TZGordon_22 Start: 12326, Stop: 15784, Start Num: 31

Candidate Starts for TZGordon_22:

(Start: 31 @12326 has 11 MA's), (39, 12368), (42, 12401), (61, 12506), (62, 12509), (157, 12794), (170, 12845), (221, 13001), (223, 13013), (227, 13022), (245, 13088), (266, 13169), (315, 13298), (322, 13307), (331, 13325), (335, 13337), (349, 13385), (355, 13400), (371, 13448), (407, 13535), (415, 13559), (426, 13598), (431, 13622), (443, 13658), (447, 13667), (451, 13676), (461, 13709), (463, 13718), (479, 13775), (489, 13802), (496, 13832), (530, 13865), (536, 13901), (545, 13925), (550, 13937), (557, 13961), (585, 14054), (592, 14081), (602, 14114), (606, 14135), (624, 14177), (627, 14189), (647, 14252), (653, 14285), (655, 14294), (660, 14309), (663, 14327), (683, 14405), (691, 14432), (714, 14531), (718, 14549), (719, 14552), (730, 14585), (733, 14594), (745, 14630), (758, 14678), (799, 14837), (831, 14972), (865, 15047), (892, 15146), (908, 15242), (910, 15251), (927, 15383), (928, 15389), (931, 15404), (936, 15428), (961, 15545), (963, 15557), (967, 15584), (979, 15629), (987, 15677), (995, 15704), (997, 15710), (1010, 15764), (1013, 15779),

Gene: Tachez_21 Start: 12042, Stop: 15878, Start Num: 21

Candidate Starts for Tachez_21:

(Start: 21 @12042 has 179 MA's), (Start: 33 @12111 has 1 MA's), (43, 12198), (78, 12375), (84, 12402), (103, 12474), (106, 12486), (108, 12495), (124, 12567), (143, 12642), (162, 12726), (164, 12735), (168, 12756), (177, 12795), (193, 12873), (212, 12951), (237, 13041), (252, 13116), (275, 13209), (277, 13218), (280, 13230), (282, 13239), (365, 13500), (370, 13515), (382, 13548), (406, 13635), (414, 13659), (440, 13743), (471, 13827), (475, 13839), (479, 13860), (608, 14016), (625, 14097), (640, 14145), (643, 14163), (647, 14184), (654, 14220), (670, 14271), (690, 14328), (711, 14406), (714, 14415), (737, 14493), (758, 14550), (774, 14604), (831, 14844), (857, 14919), (892, 15030), (918, 15249), (921, 15261), (952, 15447), (953, 15456), (981, 15528), (997, 15558), (1003, 15579), (1045, 15699), (1062, 15771), (1064, 15789), (1065, 15795),

Gene: Taheera_16 Start: 11466, Stop: 15491, Start Num: 21

Candidate Starts for Taheera_16:

(Start: 21 @11466 has 179 MA's), (27, 11490), (47, 11667), (75, 11781), (84, 11823), (87, 11844), (90, 11853), (124, 11988), (129, 12009), (164, 12156), (174, 12198), (177, 12216), (178, 12219), (182, 12234), (183, 12240), (186, 12252), (212, 12372), (229, 12438), (246, 12504), (250, 12528), (269, 12609), (304, 12732), (310, 12753), (333, 12816), (341, 12843), (344, 12852), (359, 12903), (376, 12954), (393, 13011), (406, 13056), (434, 13143), (475, 13260), (478, 13275), (494, 13365), (507, 13422), (509, 13425), (556, 13575), (562, 13593), (640, 13884), (646, 13914), (707, 14136), (717, 14160), (721, 14175), (726, 14196), (749, 14250), (769, 14310), (790, 14400), (795, 14433), (799, 14448), (812, 14496), (823, 14553), (831, 14586), (923, 15018), (942, 15108), (944, 15135), (952, 15177), (953, 15186), (981, 15255), (993, 15282), (1023, 15339), (1040, 15399), (1047, 15417), (1050,

15426),

Gene: TaiwanKao_22 Start: 12053, Stop: 15889, Start Num: 21

Candidate Starts for TaiwanKao_22:

(Start: 21 @12053 has 179 MA's), (Start: 33 @12122 has 1 MA's), (43, 12209), (78, 12389), (84, 12416), (106, 12500), (108, 12509), (122, 12569), (124, 12581), (143, 12656), (152, 12698), (162, 12740), (164, 12749), (168, 12770), (177, 12809), (193, 12887), (212, 12965), (252, 13130), (275, 13223), (277, 13232), (280, 13244), (282, 13253), (358, 13490), (365, 13514), (370, 13529), (382, 13562), (406, 13649), (414, 13673), (440, 13757), (471, 13841), (475, 13853), (493, 13955), (608, 14030), (625, 14111), (640, 14159), (643, 14177), (646, 14189), (647, 14198), (654, 14234), (670, 14285), (690, 14342), (711, 14420), (714, 14429), (737, 14507), (744, 14522), (758, 14564), (774, 14618), (831, 14858), (857, 14933), (892, 15044), (918, 15263), (921, 15275), (940, 15377), (952, 15458), (953, 15467), (981, 15539), (997, 15569), (1003, 15590), (1045, 15710), (1062, 15782), (1064, 15800), (1065, 15806),

Gene: Taquito_20 Start: 12915, Stop: 17108, Start Num: 22

Candidate Starts for Taquito_20:

(Start: 22 @12915 has 64 MA's), (47, 13113), (106, 13353), (108, 13362), (124, 13434), (129, 13455), (162, 13593), (164, 13602), (168, 13623), (177, 13662), (190, 13731), (193, 13740), (212, 13818), (214, 13830), (237, 13908), (244, 13938), (249, 13971), (250, 13974), (255, 13995), (291, 14136), (294, 14145), (337, 14277), (341, 14289), (358, 14343), (371, 14382), (382, 14415), (406, 14502), (413, 14523), (461, 14700), (476, 14751), (507, 14910), (572, 15111), (586, 15162), (588, 15171), (601, 15216), (605, 15237), (664, 15456), (669, 15468), (672, 15477), (692, 15522), (698, 15549), (704, 15582), (711, 15600), (712, 15603), (719, 15630), (758, 15729), (765, 15747), (782, 15822), (801, 15894), (829, 16011), (831, 16023), (857, 16098), (876, 16167), (898, 16296), (912, 16410), (952, 16677), (955, 16695), (997, 16806), (998, 16809), (1033, 16908), (1044, 16935), (1045, 16938), (1065, 17034), (1071, 17097),

Gene: Teejan_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for Teejan_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: Terror_16 Start: 11466, Stop: 15491, Start Num: 21

Candidate Starts for Terror_16:

(Start: 21 @11466 has 179 MA's), (27, 11490), (47, 11667), (75, 11781), (84, 11823), (87, 11844), (90, 11853), (124, 11988), (129, 12009), (164, 12156), (174, 12198), (177, 12216), (178, 12219), (182, 12234), (183, 12240), (186, 12252), (212, 12372), (229, 12438), (246, 12504), (250, 12528), (269, 12609), (304, 12732), (310, 12753), (333, 12816), (341, 12843), (344, 12852), (359, 12903), (376, 12954), (393, 13011), (406, 13056), (434, 13143), (475, 13260), (478, 13275), (494, 13365), (507, 13422), (509, 13425), (556, 13575), (562, 13593), (640, 13884), (646, 13914), (707, 14136), (717, 14160), (721, 14175), (726, 14196), (749, 14250), (769, 14310), (790, 14400), (795, 14433), (799, 14448), (812, 14496), (823, 14553), (831, 14586), (923, 15018), (942, 15108), (944, 15135), (952, 15177), (953, 15186), (981, 15255), (993, 15282), (1023, 15339), (1040, 15399), (1047, 15417), (1050, 15426),

Gene: Thyatira_19 Start: 12136, Stop: 16245, Start Num: 20

Candidate Starts for Thyatira_19:

(Start: 20 @12136 has 36 MA's), (58, 12394), (79, 12478), (95, 12544), (108, 12592), (122, 12652), (124, 12664), (129, 12685), (143, 12739), (149, 12769), (164, 12832), (168, 12853), (182, 12910), (193, 12970), (212, 13048), (218, 13072), (229, 13114), (239, 13147), (275, 13306), (280, 13327), (310, 13405), (333, 13468), (337, 13483), (338, 13486), (341, 13495), (343, 13501), (346, 13513), (363, 13567), (395, 13669), (406, 13708), (460, 13861), (472, 13903), (478, 13927), (494, 14017), (500, 14050), (541, 14191), (544, 14200), (551, 14218), (562, 14245), (584, 14323), (608, 14407), (638, 14530), (650, 14596), (687, 14698), (711, 14791), (714, 14800), (719, 14821), (730, 14854), (749, 14905), (753, 14926), (760, 14941), (761, 14947), (783, 15031), (794, 15061), (797, 15079), (806, 15118), (819, 15178), (829, 15211), (834, 15232), (842, 15256), (853, 15289), (878, 15373), (895, 15445), (940, 15754), (948, 15808), (950, 15823), (952, 15835), (959, 15865), (1036, 16051), (1045, 16075), (1049, 16087), (1066, 16174), (1068, 16198),

Gene: Tierra_20 Start: 11792, Stop: 15793, Start Num: 22

Candidate Starts for Tierra_20:

(Start: 22 @11792 has 64 MA's), (37, 11885), (49, 11990), (55, 12017), (61, 12044), (66, 12062), (72, 12080), (77, 12104), (80, 12110), (86, 12137), (87, 12143), (99, 12179), (102, 12188), (107, 12212), (123, 12284), (127, 12302), (128, 12305), (161, 12434), (188, 12551), (213, 12647), (223, 12686), (232, 12716), (246, 12776), (289, 12959), (292, 12965), (293, 12968), (308, 13022), (318, 13052), (336, 13112), (340, 13124), (342, 13130), (346, 13145), (353, 13166), (359, 13184), (403, 13322), (406, 13334), (413, 13355), (442, 13394), (474, 13448), (475, 13454), (507, 13616), (524, 13679), (551, 13760), (558, 13775), (572, 13817), (586, 13868), (591, 13889), (600, 13919), (602, 13925), (608, 13949), (618, 14000), (634, 14060), (647, 14117), (654, 14153), (659, 14171), (670, 14204), (711, 14345), (712, 14348), (737, 14432), (749, 14459), (774, 14543), (831, 14783), (857, 14858), (920, 15191), (940, 15293), (941, 15302), (952, 15374), (981, 15458), (997, 15488), (1005, 15509), (1045, 15626), (1062, 15701), (1067, 15740), (1068, 15752),

Gene: Tigress9_20 Start: 11051, Stop: 15055, Start Num: 22

Candidate Starts for Tigress9_20:

(Start: 22 @11051 has 64 MA's), (37, 11144), (49, 11249), (61, 11303), (66, 11321), (72, 11339), (80, 11369), (86, 11396), (87, 11402), (102, 11447), (123, 11543), (127, 11561), (128, 11564), (158, 11678), (161, 11693), (188, 11810), (192, 11825), (213, 11906), (229, 11966), (232, 11975), (246, 12035), (289, 12218), (292, 12224), (308, 12281), (336, 12371), (340, 12383), (342, 12389), (346, 12404), (353, 12425), (359, 12443), (384, 12518), (394, 12551), (403, 12581), (406, 12593), (413, 12614), (442, 12653), (470, 12698), (475, 12713), (507, 12875), (524, 12938), (532, 12965), (559, 13037), (572, 13076), (586, 13127), (591, 13148), (600, 13178), (602, 13184), (608, 13208), (618, 13259), (643, 13355), (647, 13376), (654, 13412), (670, 13463), (711, 13604), (712, 13607), (737, 13691), (749, 13718), (774, 13802), (831, 14042), (857, 14117), (940, 14555), (941, 14564), (952, 14636), (953, 14645), (981, 14720), (997, 14750), (1005, 14771), (1045, 14888), (1062, 14963), (1067, 15002), (1068, 15014),

Gene: TinaBug_16 Start: 11459, Stop: 15472, Start Num: 21

Candidate Starts for TinaBug_16:

(Start: 21 @11459 has 179 MA's), (47, 11660), (75, 11774), (84, 11816), (90, 11846), (124, 11981), (126, 11993), (129, 12002), (174, 12191), (177, 12209), (178, 12212), (183, 12233), (186, 12245), (199, 12317), (212, 12365), (246, 12497), (250, 12521), (269, 12602), (304, 12725), (333, 12809), (344, 12845), (358, 12890), (359, 12896), (393, 13004), (401, 13028), (406, 13049), (478, 13268), (509, 13418), (532, 13505), (571, 13613), (608, 13748), (634, 13859), (640, 13877), (646, 13907), (707, 14129), (717, 14153), (721, 14168), (726, 14189), (737, 14216), (749, 14243), (769, 14303), (790, 14393), (795, 14426), (812, 14489), (823, 14546), (831, 14579), (833, 14588), (942, 15092), (944, 15119), (950, 15149), (952, 15161), (953, 15170), (981, 15239), (1023, 15320), (1040, 15380),

(1047, 15398), (1050, 15407),

Gene: TinaLin_23 Start: 12891, Stop: 16616, Start Num: 31

Candidate Starts for TinaLin_23:

(Start: 31 @12891 has 11 MA's), (39, 12933), (44, 12999), (75, 13134), (92, 13212), (130, 13359), (170, 13476), (190, 13530), (198, 13563), (231, 13677), (262, 13794), (264, 13800), (272, 13824), (309, 13908), (314, 13935), (324, 13950), (338, 13989), (348, 14022), (375, 14097), (379, 14106), (387, 14121), (389, 14127), (405, 14172), (417, 14217), (422, 14235), (435, 14289), (444, 14313), (463, 14373), (466, 14382), (472, 14400), (477, 14418), (483, 14469), (489, 14493), (500, 14544), (516, 14595), (520, 14616), (522, 14622), (534, 14673), (535, 14679), (556, 14742), (583, 14826), (604, 14916), (624, 14994), (679, 15234), (697, 15309), (707, 15354), (713, 15381), (714, 15384), (730, 15438), (758, 15492), (764, 15510), (831, 15786), (865, 15861), (872, 15891), (908, 16062), (910, 16071), (927, 16215), (931, 16236), (936, 16260), (961, 16377), (963, 16389), (967, 16416), (974, 16434), (987, 16509), (995, 16536), (997, 16542), (1010, 16596), (1013, 16611),

Gene: TingHuaYa_21 Start: 11093, Stop: 15220, Start Num: 22

Candidate Starts for TingHuaYa_21:

(15, 11045), (Start: 22 @11093 has 64 MA's), (37, 11186), (55, 11318), (60, 11342), (70, 11372), (75, 11393), (77, 11405), (86, 11438), (94, 11465), (115, 11552), (123, 11585), (127, 11603), (128, 11606), (139, 11648), (152, 11696), (181, 11822), (188, 11864), (192, 11879), (202, 11915), (221, 11987), (246, 12089), (289, 12272), (303, 12314), (304, 12317), (305, 12323), (308, 12335), (318, 12365), (336, 12425), (342, 12443), (346, 12458), (352, 12476), (353, 12479), (364, 12512), (390, 12593), (395, 12608), (406, 12647), (413, 12668), (471, 12845), (475, 12857), (477, 12866), (482, 12917), (493, 12959), (524, 13082), (531, 13106), (551, 13163), (558, 13178), (559, 13181), (578, 13247), (581, 13256), (588, 13280), (602, 13328), (618, 13403), (622, 13421), (640, 13481), (645, 13508), (647, 13520), (654, 13556), (659, 13574), (674, 13619), (685, 13649), (691, 13667), (711, 13748), (712, 13751), (737, 13835), (744, 13850), (757, 13889), (758, 13892), (782, 13985), (799, 14051), (831, 14186), (914, 14537), (940, 14708), (952, 14789), (981, 14873), (1045, 15041), (1062, 15113), (1064, 15131), (1065, 15137),

Gene: TiniBug_21 Start: 12024, Stop: 15860, Start Num: 21

Candidate Starts for TiniBug_21:

(Start: 21 @12024 has 179 MA's), (Start: 33 @12093 has 1 MA's), (43, 12180), (78, 12360), (84, 12387), (106, 12471), (108, 12480), (122, 12540), (124, 12552), (143, 12627), (152, 12669), (162, 12711), (164, 12720), (168, 12741), (177, 12780), (193, 12858), (212, 12936), (252, 13101), (275, 13194), (280, 13215), (282, 13224), (358, 13461), (365, 13485), (370, 13500), (382, 13533), (406, 13620), (434, 13707), (440, 13728), (471, 13812), (475, 13824), (479, 13845), (608, 14001), (625, 14082), (643, 14148), (647, 14169), (654, 14205), (670, 14256), (680, 14274), (690, 14313), (711, 14391), (737, 14478), (744, 14493), (758, 14535), (774, 14589), (831, 14829), (857, 14904), (892, 15015), (895, 15036), (898, 15057), (914, 15177), (940, 15348), (952, 15429), (953, 15438), (981, 15510), (997, 15540), (1003, 15561), (1045, 15681), (1062, 15753), (1064, 15771), (1065, 15777),

Gene: Tiri_21 Start: 12088, Stop: 15921, Start Num: 21

Candidate Starts for Tiri_21:

(3, 11869), (14, 12049), (Start: 21 @12088 has 179 MA's), (Start: 33 @12157 has 1 MA's), (43, 12244), (78, 12421), (84, 12448), (106, 12532), (108, 12541), (124, 12613), (143, 12688), (162, 12772), (164, 12781), (168, 12802), (177, 12841), (193, 12919), (212, 12997), (237, 13087), (252, 13162), (275, 13255), (277, 13264), (280, 13276), (282, 13285), (341, 13468), (358, 13522), (370, 13561), (382, 13594), (406, 13681), (414, 13705), (440, 13789), (471, 13873), (475, 13885), (479, 13906), (608, 14062), (625, 14143), (640, 14191), (643, 14209), (647, 14230), (654, 14266), (670, 14317), (690, 14374), (711, 14452), (714, 14461), (737, 14539), (758, 14596), (774, 14650), (831, 14890), (857, 14965), (892, 15076), (918, 15295), (921, 15307), (940, 15409), (952, 15490), (953, 15499), (997, 15601), (1003, 15622), (1045, 15742), (1062, 15814), (1064, 15832), (1065, 15838),

Gene: TomBrady_16 Start: 11465, Stop: 15478, Start Num: 21

Candidate Starts for TomBrady_16:

(Start: 21 @11465 has 179 MA's), (47, 11666), (75, 11780), (84, 11822), (90, 11852), (124, 11987), (126, 11999), (129, 12008), (174, 12197), (177, 12215), (178, 12218), (183, 12239), (186, 12251), (199, 12323), (212, 12371), (246, 12503), (250, 12527), (269, 12608), (304, 12731), (333, 12815), (344, 12851), (358, 12896), (359, 12902), (393, 13010), (401, 13034), (406, 13055), (478, 13274), (509, 13424), (532, 13511), (571, 13619), (608, 13754), (634, 13865), (640, 13883), (646, 13913), (707, 14135), (717, 14159), (721, 14174), (726, 14195), (737, 14222), (749, 14249), (769, 14309), (790, 14399), (795, 14432), (812, 14495), (823, 14552), (831, 14585), (833, 14594), (942, 15098), (944, 15125), (950, 15155), (952, 15167), (953, 15176), (981, 15245), (1023, 15326), (1040, 15386), (1047, 15404), (1050, 15413),

Gene: Topper_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Topper_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Torres_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for Torres_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: TreyKay_21 Start: 12047, Stop: 15883, Start Num: 21

Candidate Starts for TreyKay_21:

(Start: 21 @12047 has 179 MA's), (Start: 33 @12116 has 1 MA's), (43, 12203), (78, 12383), (84, 12410), (108, 12503), (122, 12563), (124, 12575), (143, 12650), (155, 12701), (164, 12743), (168, 12764), (177, 12803), (193, 12881), (212, 12959), (218, 12983), (252, 13124), (275, 13217), (277, 13226), (280, 13238), (282, 13247), (358, 13484), (365, 13508), (370, 13523), (382, 13556), (406, 13643), (414, 13667), (440, 13751), (471, 13835), (475, 13847), (479, 13868), (493, 13949), (608, 14024), (625, 14105), (640, 14153), (643, 14171), (646, 14183), (647, 14192), (654, 14228), (670, 14279), (690, 14336), (711, 14414), (714, 14423), (737, 14501), (744, 14516), (758, 14558), (774, 14612), (831, 14852), (857, 14927), (892, 15038), (918, 15257), (921, 15269), (940, 15371), (952, 15452), (953, 15461), (981, 15533), (997, 15563), (1003, 15584), (1045, 15704), (1062, 15776), (1064, 15794), (1065, 15800),

Gene: TribelTrouble_19 Start: 12006, Stop: 16166, Start Num: 21

Candidate Starts for TribelTrouble_19:

(Start: 21 @12006 has 179 MA's), (Start: 33 @12075 has 1 MA's), (Start: 35 @12096 has 1 MA's), (37, 12102), (43, 12162), (76, 12327), (79, 12345), (84, 12366), (87, 12387), (95, 12411), (106, 12450), (120, 12513), (122, 12519), (124, 12531), (143, 12606), (164, 12699), (168, 12720), (177, 12759), (193, 12837), (204, 12882), (212, 12915), (218, 12939), (229, 12981), (259, 13113), (275, 13173), (280, 13194), (282, 13203), (310, 13296), (336, 13371), (350, 13416), (358, 13440), (364, 13461), (372, 13485), (381, 13509), (394, 13557), (406, 13599), (455, 13755), (471, 13812), (507, 13986), (517, 14016), (524, 14049), (572, 14187), (578, 14214), (588, 14247), (603, 14301), (608, 14319), (613, 14349), (634, 14430), (643, 14466), (659, 14541), (670, 14574), (686, 14619), (691, 14634), (711, 14715), (712, 14718), (733, 14787), (737, 14802), (739, 14808), (744, 14817), (774, 14913), (782, 14952), (802, 15030), (826, 15129), (831, 15153), (857, 15228), (934, 15654), (940, 15684), (941, 15693), (942, 15696), (953, 15774), (1002, 15900), (1029, 15960), (1035, 15978), (1058, 16056), (1065, 16092), (1067, 16107), (1068, 16119), (1073, 16158),

Gene: Trice_17 Start: 11327, Stop: 15460, Start Num: 21

Candidate Starts for Trice_17:

(14, 11288), (Start: 21 @11327 has 179 MA's), (Start: 33 @11396 has 1 MA's), (43, 11483), (54, 11561), (79, 11669), (84, 11690), (91, 11723), (124, 11855), (127, 11870), (129, 11876), (143, 11930), (149, 11960), (164, 12023), (168, 12044), (177, 12083), (193, 12161), (212, 12239), (218, 12263), (275, 12497), (297, 12578), (319, 12638), (336, 12695), (347, 12731), (358, 12764), (365, 12788), (387, 12854), (390, 12863), (406, 12923), (440, 13031), (460, 13076), (494, 13232), (522, 13343), (524, 13352), (529, 13364), (544, 13415), (551, 13433), (562, 13460), (572, 13490), (599, 13583), (608, 13622), (647, 13790), (659, 13844), (670, 13877), (688, 13922), (711, 14003), (712, 14006), (737, 14090), (739, 14096), (744, 14105), (758, 14147), (770, 14183), (774, 14201), (782, 14240), (798, 14300), (831, 14441), (852, 14501), (857, 14516), (921, 14858), (952, 15047), (953, 15056), (976, 15119), (1065, 15395),

Gene: TruffulaTree_21 Start: 12076, Stop: 15912, Start Num: 21

Candidate Starts for TruffulaTree_21:

(Start: 21 @12076 has 179 MA's), (Start: 33 @12145 has 1 MA's), (43, 12232), (78, 12409), (84, 12436), (103, 12508), (106, 12520), (108, 12529), (124, 12601), (143, 12676), (162, 12760), (164, 12769), (168, 12790), (177, 12829), (193, 12907), (212, 12985), (237, 13075), (252, 13150), (275, 13243), (277, 13252), (280, 13264), (282, 13273), (365, 13534), (370, 13549), (382, 13582), (406, 13669), (414, 13693), (440, 13777), (471, 13861), (475, 13873), (479, 13894), (608, 14050), (625, 14131), (640, 14179), (643, 14197), (647, 14218), (654, 14254), (670, 14305), (690, 14362), (711, 14440), (714, 14449), (737, 14527), (758, 14584), (774, 14638), (831, 14878), (857, 14953), (892, 15064), (918, 15283), (921, 15295), (952, 15481), (953, 15490), (981, 15562), (997, 15592), (1003, 15613), (1045, 15733), (1062, 15805), (1064, 15823), (1065, 15829),

Gene: Twitch_21 Start: 12116, Stop: 15949, Start Num: 21

Candidate Starts for Twitch_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (43, 12272), (54, 12347), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (186, 12905), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (744, 14582), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15518), (953, 15527), (981, 15599), (997, 15629), (1003, 15650), (1045, 15770), (1062, 15842), (1064, 15860), (1065, 15866),

Gene: Unicorn_20 Start: 11123, Stop: 15124, Start Num: 22

Candidate Starts for Unicorn_20:

(Start: 22 @11123 has 64 MA's), (37, 11216), (49, 11321), (61, 11375), (66, 11393), (72, 11411), (77, 11435), (80, 11441), (86, 11468), (87, 11474), (91, 11486), (102, 11519), (123, 11615), (127, 11633), (128, 11636), (158, 11750), (161, 11765), (188, 11882), (213, 11978), (223, 12017), (229, 12038), (232, 12047), (246, 12107), (289, 12290), (292, 12296), (293, 12299), (308, 12353), (318, 12383), (336, 12443), (340, 12455), (342, 12461), (346, 12476), (353, 12497), (359, 12515), (403, 12653), (406, 12665), (413, 12686), (442, 12725), (474, 12779), (475, 12785), (493, 12887), (507, 12947), (524, 13010), (551, 13091), (558, 13106), (559, 13109), (572, 13148), (581, 13184), (586, 13199), (587, 13205), (595, 13232), (602, 13256), (618, 13331), (634, 13391), (647, 13448), (654, 13484), (670, 13535), (711, 13676), (712, 13679), (737, 13763), (749, 13790), (774, 13874), (782, 13913), (831, 14114), (857, 14189), (909, 14408), (920, 14522), (940, 14624), (941, 14633), (952, 14705), (981, 14789), (997, 14819), (1005, 14840), (1045, 14957), (1062, 15032), (1067, 15071), (1068, 15083),

Gene: Urkel_21 Start: 12024, Stop: 15863, Start Num: 21

Candidate Starts for Urkel_21:

(Start: 21 @12024 has 179 MA's), (Start: 33 @12093 has 1 MA's), (43, 12180), (78, 12360), (84, 12387), (106, 12471), (108, 12480), (122, 12540), (124, 12552), (143, 12627), (155, 12678), (164, 12720), (168, 12741), (177, 12780), (193, 12858), (212, 12936), (218, 12960), (252, 13101), (275, 13194), (280, 13215), (282, 13224), (358, 13461), (365, 13485), (370, 13500), (382, 13533), (406, 13620), (434, 13707), (440, 13728), (471, 13812), (475, 13824), (479, 13845), (608, 14001), (625, 14082), (643, 14148), (647, 14169), (654, 14205), (670, 14256), (680, 14274), (690, 14313), (711, 14391), (737, 14478), (744, 14493), (758, 14535), (774, 14589), (831, 14829), (857, 14904), (892, 15015), (895, 15036), (898, 15057), (914, 15177), (940, 15351), (952, 15432), (953, 15441), (981, 15513), (997, 15543), (1003, 15564), (1045, 15684), (1062, 15756), (1064, 15774), (1065, 15780),

Gene: Validus_21 Start: 11056, Stop: 15213, Start Num: 22

Candidate Starts for Validus_21:

(15, 11008), (Start: 22 @11056 has 64 MA's), (37, 11149), (40, 11161), (60, 11305), (61, 11308), (94, 11428), (115, 11515), (123, 11548), (142, 11623), (143, 11626), (158, 11692), (181, 11794), (188, 11836), (192, 11851), (195, 11860), (202, 11887), (211, 11917), (218, 11950), (229, 11992), (246, 12061), (289, 12247), (292, 12253), (303, 12289), (308, 12310), (313, 12322), (318, 12340), (336, 12400), (340, 12412), (342, 12418), (346, 12433), (352, 12451), (353, 12454), (364, 12487), (395, 12583), (406, 12622), (413, 12643), (420, 12673), (433, 12706), (462, 12790), (471, 12820), (475, 12832), (493, 12934), (513, 13012), (524, 13057), (531, 13081), (550, 13135), (551, 13138), (558, 13153), (559, 13156), (572, 13195), (578, 13222), (586, 13246), (587, 13252), (595, 13279), (608, 13327), (618, 13378), (622, 13396), (633, 13432), (634, 13438), (640, 13456), (645, 13483), (647, 13495), (659, 13549), (670, 13582), (691, 13642), (711, 13723), (712, 13726), (737, 13810), (744, 13825), (758, 13867), (782, 13960), (799, 14026), (831, 14161), (913, 14509), (941, 14701), (952, 14773), (953, 14782), (959, 14803), (972, 14845), (1045, 15040), (1049, 15052), (1062, 15112), (1065, 15136), (1069, 15175),

Gene: Veliki_21 Start: 12116, Stop: 15952, Start Num: 21

Candidate Starts for Veliki_21:

(Start: 21 @12116 has 179 MA's), (Start: 33 @12185 has 1 MA's), (Start: 35 @12206 has 1 MA's), (43, 12272), (78, 12449), (84, 12476), (103, 12548), (106, 12560), (108, 12569), (124, 12641), (143, 12716), (162, 12800), (164, 12809), (168, 12830), (177, 12869), (193, 12947), (212, 13025), (237, 13115), (252, 13190), (275, 13283), (277, 13292), (280, 13304), (282, 13313), (358, 13550), (370, 13589), (382, 13622), (406, 13709), (414, 13733), (440, 13817), (471, 13901), (475, 13913), (479, 13934), (608, 14090), (625, 14171), (640, 14219), (643, 14237), (647, 14258), (654, 14294), (670, 14345), (690, 14402), (711, 14480), (714, 14489), (737, 14567), (758, 14624), (774, 14678), (831, 14918), (857, 14993), (892, 15104), (918, 15323), (921, 15335), (952, 15521), (953, 15530), (981, 15602), (997, 15632), (1003, 15653), (1045, 15773), (1062, 15845), (1064, 15863), (1065, 15869),

Gene: Vendetta_20 Start: 12184, Stop: 15645, Start Num: 31

Candidate Starts for Vendetta_20:

(Start: 31 @12184 has 11 MA's), (39, 12226), (42, 12259), (61, 12364), (62, 12367), (157, 12652), (170, 12703), (221, 12859), (223, 12871), (227, 12880), (242, 12934), (245, 12946), (266, 13027), (315, 13156), (322, 13165), (331, 13183), (349, 13243), (355, 13258), (371, 13306), (407, 13393), (415, 13417), (431, 13480), (443, 13516), (447, 13525), (451, 13534), (463, 13576), (479, 13633), (489, 13660), (496, 13690), (520, 13705), (530, 13723), (536, 13759), (545, 13783), (550, 13795), (557, 13819), (569, 13858), (585, 13912), (592, 13939), (606, 13993), (608, 13996), (624, 14035), (627, 14047), (647, 14110), (653, 14143), (655, 14152), (660, 14167), (663, 14185), (683, 14263), (691, 14290), (718, 14407), (719, 14410), (730, 14443), (733, 14452), (745, 14488), (758, 14536), (799, 14695), (831, 14830), (865, 14905), (892, 15007), (908, 15103), (910, 15112), (915, 15169), (927, 15244), (928, 15250), (931, 15265), (936, 15289), (961, 15406), (963, 15418), (967, 15445), (974, 15463), (995, 15565), (997, 15571), (1010, 15625), (1013, 15640),

Gene: ViviJ_18 Start: 11997, Stop: 16103, Start Num: 20

Candidate Starts for ViviJ_18:

(Start: 20 @11997 has 36 MA's), (Start: 35 @12090 has 1 MA's), (45, 12168), (46, 12192), (58, 12252), (79, 12336), (82, 12348), (108, 12450), (122, 12510), (124, 12522), (129, 12543), (143, 12597), (154, 12645), (164, 12690), (168, 12711), (193, 12828), (212, 12906), (218, 12930), (237, 12996), (252, 13071), (275, 13164), (282, 13194), (338, 13368), (341, 13377), (350, 13407), (358, 13431), (364, 13452), (385, 13512), (406, 13590), (409, 13599), (434, 13677), (460, 13743), (472, 13785), (475, 13794), (488, 13878), (494, 13899), (500, 13932), (518, 13998), (524, 14019), (541, 14073), (544, 14082), (551, 14100), (559, 14118), (562, 14127), (572, 14157), (581, 14193), (597, 14247), (605, 14283), (608, 14289), (611, 14307), (638, 14412), (650, 14478), (711, 14673), (719, 14703), (730, 14736), (749, 14787), (753, 14808), (760, 14823), (761, 14829), (783, 14913), (797, 14961), (806, 15000), (819, 15060), (829, 15093), (834, 15114), (842, 15138), (853, 15168), (878, 15234), (895, 15306), (940, 15621), (941, 15630), (942, 15633), (948, 15675), (952, 15702), (959, 15732), (981, 15783), (989, 15801), (1023, 15867), (1036, 15915), (1045, 15939), (1049, 15951), (1066, 16032), (1068, 16056), (1073, 16095),

Gene: Waterfoul_19 Start: 12158, Stop: 16267, Start Num: 20

Candidate Starts for Waterfoul_19:

(Start: 20 @12158 has 36 MA's), (58, 12416), (79, 12500), (95, 12566), (108, 12614), (122, 12674), (124, 12686), (129, 12707), (143, 12761), (149, 12791), (164, 12854), (168, 12875), (182, 12932), (193, 12992), (212, 13070), (218, 13094), (229, 13136), (239, 13169), (275, 13328), (280, 13349), (310, 13427), (333, 13490), (337, 13505), (338, 13508), (341, 13517), (343, 13523), (346, 13535), (363, 13589), (395, 13691), (406, 13730), (460, 13883), (472, 13925), (478, 13949), (494, 14039), (500, 14072), (541, 14213), (544, 14222), (551, 14240), (562, 14267), (584, 14345), (608, 14429), (638, 14552), (650, 14618), (687, 14720), (711, 14813), (714, 14822), (719, 14843), (730, 14876), (749, 14927), (753, 14948), (760, 14963), (761, 14969), (783, 15053), (794, 15083), (797, 15101), (806, 15140), (819, 15200), (829, 15233), (834, 15254), (842, 15278), (853, 15311), (878, 15395), (895, 15467), (940, 15776), (948, 15830), (950, 15845), (952, 15857), (959, 15887), (1036, 16073), (1045, 16097), (1049, 16109), (1066, 16196), (1068, 16220),

Gene: Wendigo_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Wendigo_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308),

(790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: Wintermute_22 Start: 13313, Stop: 17488, Start Num: 22

Candidate Starts for Wintermute_22:

(15, 13277), (Start: 22 @13313 has 64 MA's), (47, 13511), (106, 13751), (108, 13760), (129, 13853), (154, 13955), (164, 14000), (177, 14060), (193, 14138), (212, 14216), (235, 14303), (237, 14306), (244, 14336), (249, 14369), (255, 14393), (276, 14477), (283, 14507), (291, 14534), (328, 14642), (334, 14663), (337, 14675), (341, 14687), (358, 14741), (406, 14900), (413, 14921), (440, 15029), (476, 15149), (564, 15491), (572, 15509), (586, 15560), (588, 15569), (601, 15614), (605, 15635), (641, 15755), (664, 15854), (669, 15866), (672, 15875), (698, 15947), (711, 15998), (712, 16001), (719, 16028), (758, 16127), (765, 16145), (782, 16220), (829, 16409), (831, 16421), (857, 16496), (870, 16526), (898, 16682), (914, 16802), (926, 16910), (952, 17060), (997, 17189), (998, 17192), (1033, 17291), (1044, 17318), (1065, 17414), (1071, 17477),

Gene: Ximenita_21 Start: 11247, Stop: 15251, Start Num: 22

Candidate Starts for Ximenita_21:

(Start: 22 @11247 has 64 MA's), (37, 11340), (49, 11445), (61, 11499), (66, 11517), (77, 11559), (86, 11592), (87, 11598), (110, 11679), (123, 11739), (127, 11757), (128, 11760), (158, 11874), (161, 11889), (188, 12006), (196, 12033), (213, 12102), (229, 12162), (232, 12171), (235, 12183), (246, 12231), (289, 12414), (292, 12420), (293, 12423), (336, 12567), (340, 12579), (342, 12585), (346, 12600), (353, 12621), (359, 12639), (403, 12777), (406, 12789), (413, 12810), (442, 12849), (474, 12903), (475, 12909), (493, 13011), (507, 13071), (524, 13134), (550, 13212), (551, 13215), (558, 13230), (572, 13272), (578, 13299), (581, 13308), (586, 13323), (587, 13329), (595, 13356), (602, 13380), (603, 13386), (613, 13434), (618, 13455), (640, 13533), (643, 13551), (647, 13572), (654, 13608), (670, 13659), (711, 13800), (714, 13809), (737, 13887), (774, 13998), (778, 14010), (831, 14238), (857, 14313), (941, 14757), (952, 14829), (953, 14838), (981, 14913), (997, 14943), (1005, 14964), (1045, 15081), (1062, 15156), (1067, 15195), (1068, 15207), (1074, 15246),

Gene: Y10_22 Start: 13313, Stop: 17488, Start Num: 22

Candidate Starts for Y10_22:

(15, 13277), (Start: 22 @13313 has 64 MA's), (47, 13511), (106, 13751), (108, 13760), (129, 13853), (154, 13955), (164, 14000), (177, 14060), (193, 14138), (212, 14216), (235, 14303), (237, 14306), (244, 14336), (249, 14369), (255, 14393), (276, 14477), (283, 14507), (291, 14534), (328, 14642), (334, 14663), (337, 14675), (341, 14687), (358, 14741), (406, 14900), (413, 14921), (440, 15029), (476, 15149), (564, 15491), (572, 15509), (586, 15560), (588, 15569), (601, 15614), (605, 15635), (641, 15755), (664, 15854), (669, 15866), (672, 15875), (698, 15947), (711, 15998), (712, 16001), (719, 16028), (758, 16127), (765, 16145), (782, 16220), (829, 16409), (831, 16421), (857, 16496), (870, 16526), (898, 16682), (914, 16802), (926, 16910), (952, 17060), (989, 17180), (997, 17189), (998, 17192), (1033, 17291), (1044, 17318), (1065, 17414), (1071, 17477),

Gene: Y2_22 Start: 13313, Stop: 17488, Start Num: 22

Candidate Starts for Y2_22:

(15, 13277), (Start: 22 @13313 has 64 MA's), (47, 13511), (106, 13751), (108, 13760), (129, 13853), (154, 13955), (164, 14000), (177, 14060), (193, 14138), (212, 14216), (235, 14303), (237, 14306), (244, 14336), (249, 14369), (255, 14393), (276, 14477), (283, 14507), (291, 14534), (328, 14642), (334, 14663), (337, 14675), (341, 14687), (358, 14741), (406, 14900), (413, 14921), (440, 15029), (476, 15149), (564, 15491), (572, 15509), (586, 15560), (588, 15569), (601, 15614), (605, 15635), (641, 15755), (664, 15854), (669, 15866), (672, 15875), (698, 15947), (711, 15998), (712, 16001), (719, 16028), (758, 16127), (765, 16145), (782, 16220), (829, 16409), (831, 16421), (857, 16496), (870, 16526), (898, 16682), (914, 16802), (926, 16910), (952, 17060), (989, 17180), (997, 17189), (998, 17192), (1033, 17291), (1044, 17318), (1065, 17414), (1071, 17477),

Gene: YangYin_16 Start: 11787, Stop: 15824, Start Num: 22

Candidate Starts for YangYin_16:

(Start: 22 @11787 has 64 MA's), (36, 11880), (66, 12063), (70, 12072), (87, 12144), (99, 12180), (115, 12252), (117, 12258), (121, 12273), (123, 12285), (127, 12303), (139, 12348), (149, 12384), (153, 12399), (156, 12414), (158, 12420), (181, 12522), (188, 12564), (192, 12579), (202, 12615), (218, 12678), (223, 12699), (243, 12771), (246, 12789), (281, 12930), (289, 12972), (300, 13002), (301, 13005), (303, 13014), (305, 13023), (318, 13065), (339, 13134), (340, 13137), (342, 13143), (346, 13158), (353, 13179), (356, 13188), (387, 13284), (406, 13347), (414, 13371), (416, 13383), (417, 13386), (437, 13443), (449, 13476), (462, 13515), (475, 13557), (491, 13653), (494, 13662), (509, 13722), (513, 13737), (522, 13773), (549, 13857), (564, 13902), (571, 13917), (577, 13944), (602, 14028), (608, 14052), (618, 14103), (619, 14109), (650, 14241), (694, 14373), (716, 14457), (719, 14472), (739, 14538), (763, 14607), (781, 14688), (784, 14697), (807, 14790), (817, 14847), (828, 14880), (914, 15237), (942, 15426), (944, 15453), (952, 15495), (971, 15573), (1027, 15732), (1031, 15750), (1037, 15765),

Gene: YasnayaPolyana_22 Start: 13314, Stop: 17489, Start Num: 22

Candidate Starts for YasnayaPolyana_22:

(15, 13278), (Start: 22 @13314 has 64 MA's), (47, 13512), (106, 13752), (108, 13761), (129, 13854), (154, 13956), (164, 14001), (168, 14022), (177, 14061), (178, 14064), (193, 14139), (212, 14217), (235, 14304), (237, 14307), (244, 14337), (249, 14370), (255, 14394), (276, 14478), (283, 14508), (291, 14535), (328, 14643), (334, 14664), (337, 14676), (341, 14688), (358, 14742), (406, 14901), (413, 14922), (440, 15030), (476, 15150), (564, 15492), (572, 15510), (586, 15561), (588, 15570), (601, 15615), (605, 15636), (641, 15756), (664, 15855), (669, 15867), (672, 15876), (698, 15948), (711, 15999), (712, 16002), (719, 16029), (758, 16128), (765, 16146), (782, 16221), (829, 16410), (831, 16422), (857, 16497), (870, 16527), (898, 16683), (914, 16803), (926, 16911), (952, 17061), (997, 17190), (998, 17193), (1033, 17292), (1044, 17319), (1065, 17415), (1071, 17478),

Gene: YoureAdopted_20 Start: 12049, Stop: 15885, Start Num: 21

Candidate Starts for YoureAdopted_20:

(Start: 21 @12049 has 179 MA's), (Start: 33 @12118 has 1 MA's), (Start: 35 @12139 has 1 MA's), (43, 12205), (78, 12382), (84, 12409), (103, 12481), (106, 12493), (108, 12502), (124, 12574), (143, 12649), (162, 12733), (164, 12742), (168, 12763), (177, 12802), (193, 12880), (212, 12958), (237, 13048), (252, 13123), (275, 13216), (277, 13225), (280, 13237), (282, 13246), (358, 13483), (370, 13522), (382, 13555), (406, 13642), (414, 13666), (440, 13750), (471, 13834), (475, 13846), (479, 13867), (608, 14023), (625, 14104), (640, 14152), (643, 14170), (647, 14191), (654, 14227), (670, 14278), (690, 14335), (711, 14413), (714, 14422), (737, 14500), (744, 14515), (758, 14557), (774, 14611), (831, 14851), (857, 14926), (892, 15037), (918, 15256), (921, 15268), (952, 15454), (953, 15463), (997, 15565), (1003, 15586), (1045, 15706), (1062, 15778), (1064, 15796), (1065, 15802),

Gene: Yuna_21 Start: 11197, Stop: 15186, Start Num: 22

Candidate Starts for Yuna_21:

(Start: 22 @11197 has 64 MA's), (37, 11290), (64, 11458), (71, 11479), (80, 11515), (87, 11548), (88, 11551), (91, 11560), (99, 11584), (121, 11677), (123, 11689), (128, 11710), (179, 11926), (188, 11965), (192, 11980), (202, 12016), (217, 12076), (218, 12079), (229, 12121), (246, 12190), (289, 12376), (292, 12382), (293, 12385), (295, 12391), (303, 12418), (305, 12427), (308, 12439), (318, 12469), (336, 12529), (340, 12541), (342, 12547), (346, 12562), (352, 12580), (353, 12583), (359, 12601), (384, 12676), (403, 12739), (406, 12751), (413, 12772), (442, 12811), (470, 12856), (475, 12871), (507, 13033), (524, 13096), (532, 13123), (559, 13195), (572, 13234), (586, 13285), (588, 13294), (591, 13306), (600, 13336), (602, 13342), (608, 13366), (634, 13477), (640, 13495), (647, 13534), (670, 13621), (674, 13633), (711, 13762), (712, 13765), (737, 13849), (778, 13972), (831, 14200), (852, 14260), (857, 14275), (917, 14590), (941, 14722), (944, 14752), (951, 14791), (952, 14794), (955, 14812), (981, 14866), (997, 14896), (1005, 14917), (1045, 15028), (1065, 15121),

Gene: Yunkel11_21 Start: 11016, Stop: 15143, Start Num: 22

Candidate Starts for Yunkel11_21:

(15, 10968), (Start: 22 @11016 has 64 MA's), (37, 11109), (55, 11241), (60, 11265), (70, 11295), (75, 11316), (77, 11328), (94, 11388), (115, 11475), (123, 11508), (127, 11526), (128, 11529), (147, 11601), (181, 11745), (188, 11787), (192, 11802), (202, 11838), (221, 11910), (246, 12012), (289, 12195), (298, 12222), (304, 12240), (305, 12246), (318, 12288), (340, 12360), (342, 12366), (346, 12381), (353, 12402), (359, 12420), (364, 12435), (380, 12483), (390, 12516), (395, 12531), (406, 12570), (413, 12591), (420, 12621), (477, 12789), (482, 12840), (524, 13005), (531, 13029), (551, 13086), (569, 13137), (578, 13170), (581, 13179), (602, 13251), (618, 13326), (622, 13344), (634, 13386), (640, 13404), (645, 13431), (647, 13443), (685, 13572), (691, 13590), (711, 13671), (712, 13674), (737, 13758), (757, 13812), (758, 13815), (782, 13908), (799, 13974), (831, 14109), (873, 14235), (940, 14631), (941, 14640), (952, 14712), (981, 14796), (1045, 14964), (1062, 15036), (1065, 15060), (1069, 15099),

Gene: Zabiza_21 Start: 12077, Stop: 15916, Start Num: 21

Candidate Starts for Zabiza_21:

(Start: 21 @12077 has 179 MA's), (Start: 33 @12146 has 1 MA's), (43, 12233), (78, 12410), (84, 12437), (103, 12509), (106, 12521), (108, 12530), (124, 12602), (143, 12677), (162, 12761), (164, 12770), (168, 12791), (177, 12830), (193, 12908), (212, 12986), (237, 13076), (252, 13151), (275, 13244), (277, 13253), (280, 13265), (282, 13274), (365, 13535), (370, 13550), (382, 13583), (406, 13670), (414, 13694), (440, 13778), (471, 13862), (475, 13874), (479, 13895), (608, 14051), (625, 14132), (640, 14180), (643, 14198), (647, 14219), (654, 14255), (670, 14306), (690, 14363), (711, 14441), (714, 14450), (737, 14528), (758, 14585), (774, 14639), (831, 14879), (857, 14954), (892, 15065), (918, 15284), (921, 15296), (952, 15485), (953, 15494), (981, 15566), (997, 15596), (1003, 15617), (1045, 15737), (1062, 15809), (1064, 15827), (1065, 15833),

Gene: Zavala_21 Start: 12057, Stop: 15890, Start Num: 21

Candidate Starts for Zavala_21:

(Start: 21 @12057 has 179 MA's), (Start: 33 @12126 has 1 MA's), (43, 12213), (78, 12390), (84, 12417), (103, 12489), (106, 12501), (108, 12510), (124, 12582), (143, 12657), (162, 12741), (164, 12750), (168, 12771), (177, 12810), (193, 12888), (212, 12966), (237, 13056), (252, 13131), (275, 13224), (277, 13233), (280, 13245), (282, 13254), (358, 13491), (370, 13530), (382, 13563), (406, 13650), (414, 13674), (440, 13758), (471, 13842), (475, 13854), (479, 13875), (608, 14031), (640, 14160), (643, 14178), (647, 14199), (654, 14235), (670, 14286), (690, 14343), (711, 14421), (714, 14430), (737, 14508), (744, 14523), (758, 14565), (774, 14619), (831, 14859), (857, 14934), (892, 15045), (918, 15264), (921, 15276), (952, 15459), (953, 15468), (981, 15540), (997, 15570), (1003, 15591), (1045, 15711), (1062, 15783), (1064, 15801), (1065, 15807),

Gene: ZoMa_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for ZoMa_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),

Gene: ZoeJ_17 Start: 10077, Stop: 13724, Start Num: 20

Candidate Starts for ZoeJ_17:

(Start: 20 @10077 has 36 MA's), (Start: 33 @10149 has 1 MA's), (83, 10383), (87, 10398), (122, 10515), (124, 10527), (143, 10602), (164, 10695), (193, 10833), (194, 10836), (203, 10875), (212, 10911), (218, 10935), (221, 10944), (223, 10956), (230, 10980), (237, 11001), (243, 11025), (244, 11031), (250, 11067), (252, 11076), (259, 11109), (261, 11121), (269, 11148), (333, 11331), (336, 11343), (338, 11349), (350, 11388), (358, 11412), (400, 11460), (411, 11472), (439, 11505), (498, 11736), (514, 11781), (524, 11811), (551, 11880), (562, 11907), (574, 11940), (607, 12027), (615, 12060), (620, 12081), (630, 12105), (638, 12135), (718, 12378), (751, 12471), (777, 12549), (811, 12672), (843, 12777), (933, 13188), (940, 13218), (941, 13227), (944, 13257), (1045, 13554), (1049, 13566), (1065, 13647),

Gene: Zombie_16 Start: 11464, Stop: 15477, Start Num: 21

Candidate Starts for Zombie_16:

(Start: 21 @11464 has 179 MA's), (47, 11665), (75, 11779), (84, 11821), (90, 11851), (124, 11986), (126, 11998), (129, 12007), (174, 12196), (177, 12214), (178, 12217), (183, 12238), (186, 12250), (199, 12322), (212, 12370), (246, 12502), (250, 12526), (269, 12607), (304, 12730), (333, 12814), (344, 12850), (358, 12895), (359, 12901), (393, 13009), (401, 13033), (406, 13054), (478, 13273), (509, 13423), (532, 13510), (571, 13618), (608, 13753), (634, 13864), (640, 13882), (646, 13912), (707, 14134), (717, 14158), (721, 14173), (726, 14194), (737, 14221), (749, 14248), (769, 14308), (790, 14398), (795, 14431), (812, 14494), (823, 14551), (831, 14584), (833, 14593), (942, 15097), (944, 15124), (950, 15154), (952, 15166), (953, 15175), (981, 15244), (1023, 15325), (1040, 15385), (1047, 15403), (1050, 15412),