

Pham 292369

1. NoShow_21	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
2. LittleMinkey_35	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
3. BirdsNest_33	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
4. KayaCho_26	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
5. 40BC_U26 + 1	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
6. Hosp_U24	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
7. ForDig_26	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
8. Jolie1_U26	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
9. Rinkes_33	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
10. FunSized_34	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
11. Manda_27 + 51	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
12. Brewer_26 + 12	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
13. Command613_27 + 9	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
14. Gator_24 + 12	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
15. HanKaySha_27 + 32	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
16. Phaja_26 + 2	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
17. CJW1_26	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
18. Ptowny_26	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
19. Pat3_25	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
20. Mindy_26 + 5	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
21. Budgie_28	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
22. BabyJay_25	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
23. BadStone_25	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
24. Harella_25 + 2	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
25. Amao_26	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
26. Poltronamos_26	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
27. GoldenSpark_28	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
28. Thresher_27	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
29. Youngblood_26	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
30. Clank_18	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
31. Biarby_25	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
32. Wee_19	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
33. ShiLan_18 + 11	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
34. Aubs_18	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
35. Rockne_18 + 2	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
36. Saab0_19 + 5	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
37. Flathead_19	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
38. Boomer_19	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
39. RitaG_18 + 1	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
40. BlueCrab_18 + 11	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
41. SG4_18	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
42. MisterCuddies_18 + 5	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
43. Younger_19 + 10	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
44. Ivmpio_18 + 5	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
45. Alexphander_20 + 3	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
46. Zerg_18	47	72	101	122	147	164	184	203	223	242	261	280	300	319	338	358	379	398	418	438	458	478	498	518	538	558	578	598	618	638	658
47. Madiba_19	47	72	101	122	147	164	184	203	223	242																					

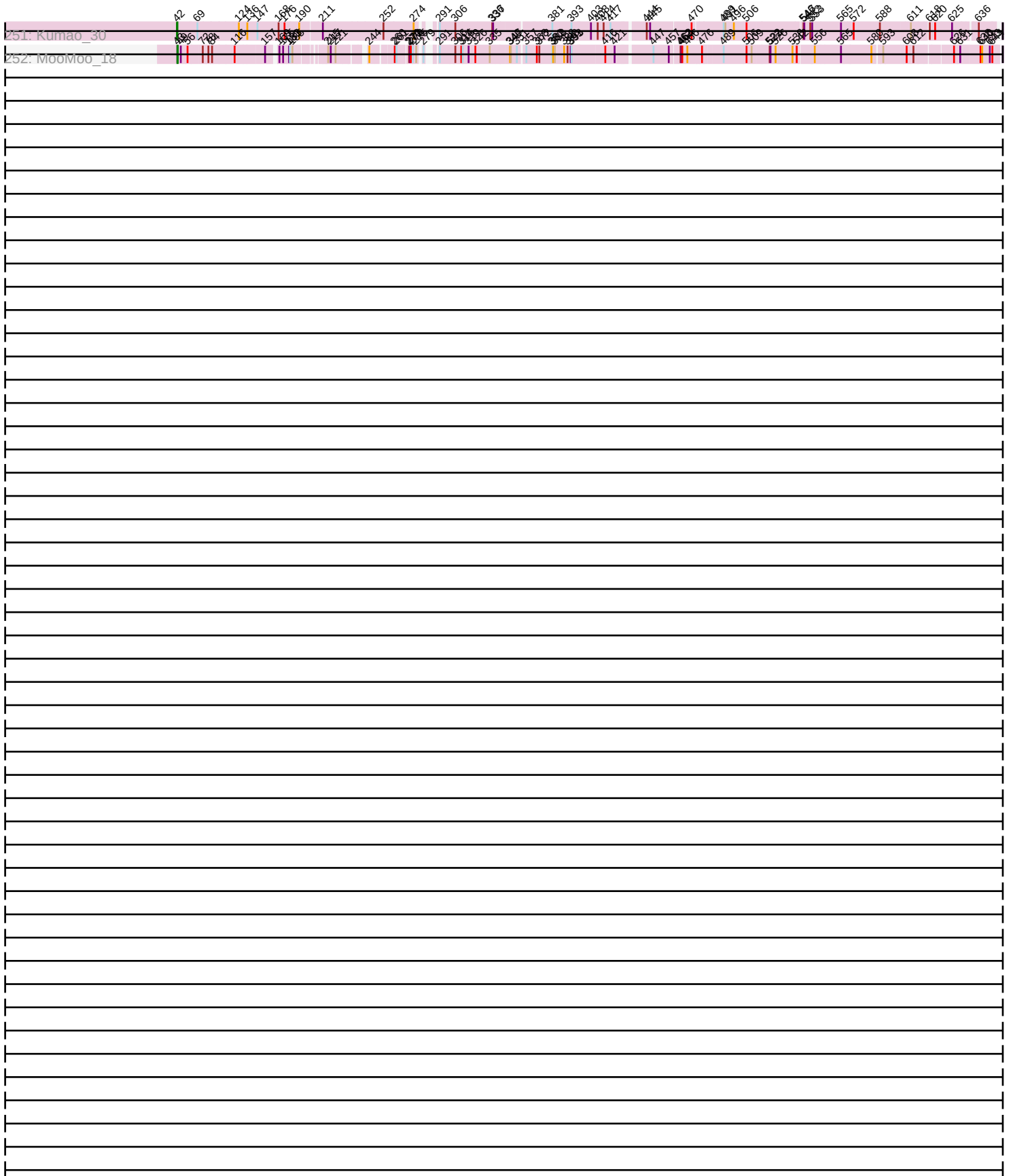
[illegible]

I01: Emma_18 + 1	196	202	209	216	223	230	237	244	251	258	265	272	279	286	293	300	307	314	321	328	335	342	349	356	363	370	377	384	391	398	405	412	419	426	433	440	447	454	461	468	475	482	489	496	503	510	517	524	531	538	545	552	559	566	573	580	587	594	601	608	615	622	629	636	643	650	657	664	671	678	685	692	699	706	713	720	727	734	741	748	755	762	769	776	783	790	797	804	811	818	825	832	839	846	853	860	867	874	881	888	895	902	909	916	923	930	937	944	951	958	965	972	979	986	993	1000	1007	1014	1021	1028	1035	1042	1049	1056	1063	1070	1077	1084	1091	1098	1105	1112	1119	1126	1133	1140	1147	1154	1161	1168	1175	1182	1189	1196	1203	1210	1217	1224	1231	1238	1245	1252	1259	1266	1273	1280	1287	1294	1301	1308	1315	1322	1329	1336	1343	1350	1357	1364	1371	1378	1385	1392	1399	1406	1413	1420	1427	1434	1441	1448	1455	1462	1469	1476	1483	1490	1497	1504	1511	1518	1525	1532	1539	1546	1553	1560	1567	1574	1581	1588	1595	1602	1609	1616	1623	1630	1637	1644	1651	1658	1665	1672	1679	1686	1693	1700	1707	1714	1721	1728	1735	1742	1749	1756	1763	1770	1777	1784	1791	1798	1805	1812	1819	1826	1833	1840	1847	1854	1861	1868	1875	1882	1889	1896	1903	1910	1917	1924	1931	1938	1945	1952	1959	1966	1973	1980	1987	1994	2001	2008	2015	2022	2029	2036	2043	2050	2057	2064	2071	2078	2085	2092	2099	2106	2113	2120	2127	2134	2141	2148	2155	2162	2169	2176	2183	2190	2197	2204	2211	2218	2225	2232	2239	2246	2253	2260	2267	2274	2281	2288	2295	2302	2309	2316	2323	2330	2337	2344	2351	2358	2365	2372	2379	2386	2393	2400	2407	2414	2421	2428	2435	2442	2449	2456	2463	2470	2477	2484	2491	2498	2505	2512	2519	2526	2533	2540	2547	2554	2561	2568	2575	2582	2589	2596	2603	2610	2617	2624	2631	2638	2645	2652	2659	2666	2673	2680	2687	2694	2701	2708	2715	2722	2729	2736	2743	2750	2757	2764	2771	2778	2785	2792	2799	2806	2813	2820	2827	2834	2841	2848	2855	2862	2869	2876	2883	2890	2897	2904	2911	2918	2925	2932	2939	2946	2953	2960	2967	2974	2981	2988	2995	3002	3009	3016	3023	3030	3037	3044	3051	3058	3065	3072	3079	3086	3093	3100	3107	3114	3121	3128	3135	3142	3149	3156	3163	3170	3177	3184	3191	3198	3205	3212	3219	3226	3233	3240	3247	3254	3261	3268	3275	3282	3289	3296	3303	3310	3317	3324	3331	3338	3345	3352	3359	3366	3373	3380	3387	3394	3401	3408	3415	3422	3429	3436	3443	3450	3457	3464	3471	3478	3485	3492	3499	3506	3513	3520	3527	3534	3541	3548	3555	3562	3569	3576	3583	3590	3597	3604	3611	3618	3625	3632	3639	3646	3653	3660	3667	3674	3681	3688	3695	3702	3709	3716	3723	3730	3737	3744	3751	3758	3765	3772	3779	3786	3793	3800	3807	3814	3821	3828	3835	3842	3849	3856	3863	3870	3877	3884	3891	3898	3905	3912	3919	3926	3933	3940	3947	3954	3961	3968	3975	3982	3989	3996	4003	4010	4017	4024	4031	4038	4045	4052	4059	4066	4073	4080	4087	4094	4101	4108	4115	4122	4129	4136	4143	4150	4157	4164	4171	4178	4185	4192	4199	4206	4213	4220	4227	4234	4241	4248	4255	4262	4269	4276	4283	4290	4297	4304	4311	4318	4325	4332	4339	4346	4353	4360	4367	4374	4381	4388	4395	4402	4409	4416	4423	4430	4437	4444	4451	4458	4465	4472	4479	4486	4493	4500	4507	4514	4521	4528	4535	4542	4549	4556	4563	4570	4577	4584	4591	4598	4605	4612	4619	4626	4633	4640	4647	4654	4661	4668	4675	4682	4689	4696	4703	4710	4717	4724	4731	4738	4745	4752	4759	4766	4773	4780	4787	4794	4801	4808	4815	4822	4829	4836	4843	4850	4857	4864	4871	4878	4885	4892	4899	4906	4913	4920	4927	4934	4941	4948	4955	4962	4969	4976	4983	4990	4997	5004	5011	5018	5025	5032	5039	5046	5053	5060	5067	5074	5081	5088	5095	5102	5109	5116	5123	5130	5137	5144	5151	5158	5165	5172	5179	5186	5193	5200	5207	5214	5221	5228	5235	5242	5249	5256	5263	5270	5277	5284	5291	5298	5305	5312	5319	5326	5333	5340	5347	5354	5361	5368	5375	5382	5389	5396	5403	5410	5417	5424	5431	5438	5445	5452	5459	5466	5473	5480	5487	5494	5501	5508	5515	5522	5529	5536	5543	5550	5557	5564	5571	5578	5585	5592	5599	5606	5613	5620	5627	5634	5641	5648	5655	5662	5669	5676	5683	5690	5697	5704	5711	5718	5725	5732	5739	5746	5753	5760	5767	5774	5781	5788	5795	5802	5809	5816	5823	5830	5837	5844	5851	5858	5865	5872	5879	5886	5893	5900	5907	5914	5921	5928	5935	5942	5949	5956	5963	5970	5977	5984	5991	5998	6005	6012	6019	6026	6033	6040	6047	6054	6061	6068	6075	6082	6089	6096	6103	6110	6117	6124	6131	6138	6145	6152	6159	6166	6173	6180	6187	6194	6201	6208	6215	6222	6229	6236	6243	6250	6257	6264	6271	6278	6285	6292	6299	6306	6313	6320	6327	6334	6341	6348	6355	6362	6369	6376	6383	6390	6397	6404	6411	6418	6425	6432	6439	6446	6453	6460	6467	6474	6481	6488	6495	6502	6509	6516	6523	6530	6537	6544	6551	6558	6565	6572	6579	6586	6593	6600	6607	6614	6621	6628	6635	6642	6649	6656	6663	6670	6677	6684	6691	6698	6705	6712	6719	6726	6733	6740	6747	6754	6761	6768	6775	6782	6789	6796	6803	6810	6817	6824	6831	6838	6845	6852	6859	6866	6873	6880	6887	6894	6901	6908	6915	6922	6929	6936	6943	6950	6957	6964	6971	6978	6985	6992	6999	7006	7013	7020	7027	7034	7041	7048	7055	7062	7069	7076	7083	7090	7097	7104	7111	7118	7125	7132	7139	7146	7153	7160	7167	7174	7181	7188	7195	7202	7209	7216	7223	7230	7237	7244	7251	7258	7265	7272	7279	7286	7293	7300	7307	7314	7321	7328	7335	7342	7349	7356	7363	7370	7377	7384	7391	7398	7405	7412	7419	7426	7433	7440	7447	7454	7461	7468	7475	7482	7489	7496	7503	7510	7517	7524	7531	7538	7545	7552	7559	7566	7573	7580	7587	7594	7601	7608	7615	7622	7629	7636	7643	7650	7657	7664	7671	7678	7685	7692	7699	7706	7713	7720	7727	7734	7741	7748	7755	7762	7769	7776	7783	7790	7797	7804	7811	7818	7825	7832	7839	7846	7853	7860	7867	7874	7881	7888	7895	7902	7909	7916	7923	7930	7937	7944	7951	7958	7965	7972	7979	7986	7993	8000	8007	8014	8021	8028	8035	8042	8049	8056	8063	8070	8077	8084	8091	8098	8105	8112	8119	8126	8133	8140	8147	8154	8161	8168	8175	8182	8189	8196	8203	8210	8217	8224	8231	8238	8245	8252	8259	8266	8273	8280	8287	8294	8301	8308	8315	8322	8329	8336	8343	8350	8357	8364	8371	8378	8385	8392	8399	8406	8413	8420	8427	8434	8441	8448	8455	8462	8469	8476	8483	8490	8497	8504	8511	8518	8525	8532	8539	8546	8553	8560	8567	8574	8581	8588	8595	8602	8609	8616	8623	8630	8637	8644	8651	8658	8665	8672	8679	8686	8693	8700	8707	8714	8721	8728	8735	8742	8749	8756	8763	8770	8777	8784	8791	8798	8805	8812	8819	8826	8833	8840	8847	8854	8861	8868	8875	8882	8889	8896	8903	8910	8917	8924	8931	8938	8945	8952	8959	8966	8973	8980	8987	8994	9001	9008	9015	9022	9029	9036	9043	9050	9057	9064	9071	9078	9085	9092	9099	9106	9113	9120	9127	9134	9141	9148	9155	9162	9169	9176	9183	9190	9197	9204	9211	9218	9225	9232	9239	9246	9253	9260	9267	9274	9281	9288	9295	9302	9309	9316	9323	9330	9337	9344	9351	9358	9365	9372	9379	9386	9393	9400	9407	9414	9421	9428	9435	9442	9449	9456	9463	9470	9477	9484	9491	9498	9505	9512	9519	9526	9533	9540	9547	9554	9561	9568	9575	9582	9589	9596	9603	9610	9617	9624	9631	9638	9645	9652	9659	9666	9673	9680	9687	9694	9701	9708	9715	9722	9729	9736	9743	9750	9757	9764	9771	9778	9785	9792	9799	9806	9813	9820	9827	9834	9841	9
------------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	---

[illegible]

201: PnHVI_27 + 2	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
202: Adonis_27	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
203: Zavaia_27 + 4	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
204: HedwigODO_27 + 7	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
205: Anaya_28	88	108	132		218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
206: Mumine_27 + 2	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
207: Pisa4_26 + 1	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
208: Guanica15_27 + 2	88	132	188		218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
209: Geraldini_27 + 1	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
210: Tachez_27 + 2	88	108	132		218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
211: DrHayes_27 + 3	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
212: Megsy_27	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
213: Muruculumbu_27	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
214: CheetoDust_27	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
215: Stinson_28	88	108	158	188	243	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626				
216: LeMond_26	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
217: MacKai_27 + 1	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
218: Ganymede_28 + 1	88	113	132		218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
219: Apocalypse_27	88	108	132		218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
220: Bella96_27 + 1	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
221: TaiwanKao_28	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
222: Beezoo_27	88	108	132		218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
223: TimBug_27	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
224: Bern_27	88	132			218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
225: Tim_27	88	108	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
226: Chris_26	88	108	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
227: Oscar_26	88	108	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
228: KISI_26	88	132	188	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
229: Ageoidapage_27	88	108	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
230: Scarlett_26	88	108	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
231: Nibb_26	88	113	132		218	253	276	283	316	346	396	400	428	440	448	482	475	501	509	524	533	565		610	626							
232: LaterM_27	88	108	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
233: Marshawn_28	88	108	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
234: SirPhilip_26	88	132	188	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
235: Aminay_26	88	132	188	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626			
236: Bollgate_24	51	69	88	108	132	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626
237: Vagabond_58 + 21	46	88	108	132	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626	
238: YungJamal_63 + 7	46	88	108	132	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626	
239: Ryadel_62	46	88	108	132	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626	
240: Smooch_61 + 1	46	88	108	132	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626	
241: Bora_56	41	113	132	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626		
242: Shipwreck_20 + 1	41	113	132	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626		
243: Pygmy_20	11	34	113	132	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626	
244: NovoPizza_23	12	89	113	132	158	188	213	228	263	276	283	316	329	346	353	376	391	400	419	428	440	448	482	475	501	509	524	533	565	610	626	
245: MaryV_43 + 1	12	89	113	132	158	188	213	228	263	276	283	316																				

Pham 292369



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 292369 Report

This analysis was run 04/18/26 on database version 643.

Pham number 292369 has 610 members, 67 are drafts.

Phages represented in each track:

- Track 1 : NoShow_21
- Track 2 : LilMcDreamy_27
- Track 3 : LittleMinkey_35
- Track 4 : BirdsNest_33
- Track 5 : KayaCho_26
- Track 6 : 40BC_026, 39HC_026
- Track 7 : Hosp_024
- Track 8 : ForDig_26
- Track 9 : Jolie1_026
- Track 10 : Rinkes_33
- Track 11 : Funsized_34
- Track 12 : Manda_27, Terminus_26, Goldilocks_27, Murphy_27, Willez_25, TeamEdward_26, Holt_27, Thimble_26, Porky_26, Teaspoon_27, Buck_25, Miniwave_26, PhatBacter_26, Cookies_26, MPhalcon_25, Murica_25, Pharsalus_27, Inca_25, Filch_27, Tarkin_28, NonchalantPear_26, Palpatine_26, HufflyPuff_25, Petra64142_28, FireRed_26, Phaux_25, StellaBean_26, TBrady12_28, Bogg_26, AmericanBeauty_28, Misfit_26, Paperbeatsrock_28, Nala_26, Argent26_28, MISSy_25, Nimrod_26, Highbury_27, Becksu_26, SophKB_26, Gemini_29, GooberAzure_28, StormChicken_26, Gage_28, BugsBunny_24, Saints25_27, Kimchi_28, ShereKhan_28, Stank_29, Qualification_27, Easy2Say_28, Kanye_28, Sassay_25
- Track 13 : Brewer_26, YassJohnny_27, Greep_27, Contagion_25, Mosby_25, MollyToe_26, Tomaszewski_25, BigBubba_27, Bruin_26, ChotaBhai_26, xkcd_27, Rimmer_25, FoghornLeghorn_25
- Track 14 : Command613_27, Marshmallow_26, Icee_25, Bask21_26, Sotrice96_26, Kostya_26, CrystalP_26, BilboSwaggins_26, Cactus_27, SirDuracell_25
- Track 15 : Gator_24, Dusk_25, Rakim_27, Myrale_26, ABCat_25, Asriel_25, Barbarian_25, Goku_26, Balomoji_25, Tuco_27, Traaww1_24, TeardropMSU_25, Eureka_26
- Track 16 : HanKaySha_27, Phrux_26, Xandras_28, Wiggin_29, Adnama_29, Stark_27, Moldemort_27, Czyszczonek1_27, RiverMonster_26, Elite2014_25, Bench_28, Lilizi_28, ChosenOne_25, DoctorDiddles_26, DrDrey_27, Simpliphy_27, Lilpickle_25, PaddyBaddy_27, Pumpkin_28, MadamMonkfish_26, NoSleep_27, Dumbo_26, Ukulele_26, OrionPax_27, Elph10_27, Maxxinista_27, JeTaimé_28, Hopey_28, 244_28, StolenFromERC_28, Emmina_27, Hoonter_28, Lilac_28
- Track 17 : Phaja_26, IHOP_26, FairyPath_26
- Track 18 : Cjw1_26

- Track 19 : Ptowny_26
- Track 20 : Pat3_25
- Track 21 : Mindy_26, NelitzaMV_26, Henry_26, ShamWow_26, Daikon_24, Toto_26
- Track 22 : Budgie_28
- Track 23 : BaboJay_25
- Track 24 : BadStone_25
- Track 25 : Harella_25, Flypotenuse_24, Glexan_24
- Track 26 : Amao_26
- Track 27 : Policronamos_26
- Track 28 : GoldenSpark_28
- Track 29 : Thresher_27
- Track 30 : Youngblood_26
- Track 31 : Clank_18
- Track 32 : Blarby_25
- Track 33 : Wee_19
- Track 34 : ShiLan_18, Gandolph_18, Burwell21_18, OlympiaSaint_18, NormanBulbieJr_18, ShowerHandel_18, Priscilla_18, Yorick_18, Jarcob_18, Spoonbill_18, Martik_18, Cabrinians_18
- Track 35 : Aubs_18
- Track 36 : Rockne_18, Llij_18, PMC_18
- Track 37 : Sabbb_19, Mattes_18, BobaPhett_18, Gorge_18, James_18, LilMoolah_18
- Track 38 : Flathead_19
- Track 39 : Boomer_19
- Track 40 : RitaG_18, Lucia_19
- Track 41 : BlueCrab_18, Pacc40_18, Daenerys_18, PHappiness_18, Dorothy_18, KingMidas_19, JoeyJr_18, OldBen_18, Polka14_19, DaddyRickover_18, IbOuu_18, Scottish_19
- Track 42 : SG4_18
- Track 43 : MisterCuddles_18, GUmbie_18, Girr_18, Veteran_18, Phasih_19, Ruby_18
- Track 44 : Totinger_19, LittleShirley_19, EmiMonkey_18, Emmaloid_19, Starcevich_19, Vivum_18, Tchotchke_19, Slim_19, Rialto_20, GigiOuiOui_18, PhilipPhlop_18
- Track 45 : IMpilo_18, Firehouse51_19, Minnie_19, Leozinho_19, MilleniumForce_19, Whatsapiecost_18
- Track 46 : Alexphander_20, ArcusAngelus_18, DaWorst_20, Chevrolet_18
- Track 47 : Zerg_18
- Track 48 : Madiba_19
- Track 49 : VRedHorse_18
- Track 50 : Job42_21
- Track 51 : Doug_19
- Track 52 : TootsiePop_19, Awesomesauce_19, Misha28_19
- Track 53 : Tootsieroll_19, Radiance_18
- Track 54 : Aloeri_19, ChickenDinner_19, DocMcStuffins_19, Piper2020_19
- Track 55 : OfUltron_18, Jinglebell_17, Llama_18, Modragons_18, AlpineSix_18, Seabastian_18, Ochi17_18
- Track 56 : Spikelee_19, RedBird_18, BuzzLyseyear_20, RockyHorror_19, WillSterrel_19, IrishSherpFalk_19, Mantra_18
- Track 57 : Chuckly_18
- Track 58 : Phatniss_19, Drago_19, UncleRicky_19, Enby_19, Lorde_19
- Track 59 : Coco12_20, Phanphagia_18, Brookers_19, Kingsley_19
- Track 60 : Hades_18, OwlsT2W_20, DosHalletts_19

- Track 61 : Karhdo_18
- Track 62 : Strokeseat_18, Hlubikazi_18, Mandlovu_18
- Track 63 : Dante_18
- Track 64 : Kersh_19
- Track 65 : Mova_19
- Track 66 : Moonbeam_19, Kimberlium_20, Juice456_20, QuickMath_19, MulchExplorer_20
- Track 67 : Mozy_19
- Track 68 : SuperGrey_19
- Track 69 : PatoPoderoso_18, Doomslug_20, EleanorGeorge_18, KristaRAM_19, Batiatus_18, KingJulian_18, Corium_18, JalFarm20_20, Fruitloop_18
- Track 70 : DotProduct_18
- Track 71 : NewHope4_19, Polo2Bam_20, SeaLumen_19, Enzomatic_20
- Track 72 : MinionDave_19, CaptainTrips_19
- Track 73 : Brushbloom_19
- Track 74 : Ibhubesi_18, Harley_18
- Track 75 : Nitzel_19
- Track 76 : Taj_18, DeadP_18
- Track 77 : Peridot_20
- Track 78 : Nivrat_18, Lizziana_18
- Track 79 : ByChance_18
- Track 80 : PhesterPhotato_18
- Track 81 : Ramsey_19
- Track 82 : Nimbo_18, Blexus_18, Geralt_18, Inventum_18, Deb65_18, Sassafras_18
- Track 83 : XFactor_18, Galactic_18, Filuzino_18
- Track 84 : Mwanjiwa_18
- Track 85 : Che8_18
- Track 86 : Fancypants_18
- Track 87 : ShroomBoi_18
- Track 88 : SwagPigglett_18, TDanisky_18, Philus_18, DRBy19_18, Saal_18, Sparkdehlily_18
- Track 89 : Spartacus_19
- Track 90 : SimranZ1_19
- Track 91 : Whouxphf_18
- Track 92 : DLane_18
- Track 93 : Donkeykong_18
- Track 94 : Rita_18
- Track 95 : LunaBlu_19
- Track 96 : Bobi_20
- Track 97 : DoRead_18
- Track 98 : Mutaforma13_18
- Track 99 : Pollywog_21, Ogopogo_21
- Track 100 : Royals2015_18
- Track 101 : Emma_18, Tweety_18
- Track 102 : Bubbles123_19
- Track 103 : Stap_19
- Track 104 : Wachhund_18
- Track 105 : Phalconet_18
- Track 106 : Oksu_19
- Track 107 : Quico_19, Girafales_19, Florinda_18
- Track 108 : Guppsters_19
- Track 109 : Estave1_18

- Track 110 : Mahavrat_18, Juniper1_18
- Track 111 : Jant_18
- Track 112 : Plumbus_19
- Track 113 : Ovechkin_18
- Track 114 : Medindi_18
- Track 115 : Krakatau_19
- Track 116 : Hegedechwinu_19
- Track 117 : Eish_18
- Track 118 : Hamulus_18
- Track 119 : Beanstalk_20
- Track 120 : Sandalphon_19
- Track 121 : SiSi_18
- Track 122 : Grimmer_19
- Track 123 : Poenanya_18, Doomphist_18
- Track 124 : SassyB_18, PopTart_18
- Track 125 : Seagreen_19
- Track 126 : Cornucopia_19, Marker_19
- Track 127 : Leperchaun_18
- Track 128 : Eradicator_18
- Track 129 : Maravista_18
- Track 130 : Topiatin_20
- Track 131 : Empress_19
- Track 132 : Melissauren88_18
- Track 133 : Zizzle_18
- Track 134 : Violac_19
- Track 135 : Nichirin_18
- Track 136 : Beakin_19
- Track 137 : Bipolar_18
- Track 138 : MadMen_19
- Track 139 : DillTech15_18
- Track 140 : FreddyB_18
- Track 141 : BodEinwohner17_18
- Track 142 : Byougenkin_18
- Track 143 : Fastidio_18
- Track 144 : DirtMcgirt_19
- Track 145 : Latretium_19
- Track 146 : Ardmore_18
- Track 147 : Shauna1_18
- Track 148 : StAnnes_18
- Track 149 : Frankie_19
- Track 150 : Cheesepuff_20
- Track 151 : Kenuha5_18
- Track 152 : Zapner_25, Jabbawokkie_26
- Track 153 : Avani_24
- Track 154 : Soul22_24
- Track 155 : Demsculpinboyz_24
- Track 156 : SilverChicken_24
- Track 157 : Che9d_24
- Track 158 : Yoshi_24
- Track 159 : LunaStella_20
- Track 160 : ThetaBob_20
- Track 161 : Renaud18_20
- Track 162 : Cornie_20

- Track 163 : Toron_20
- Track 164 : Cambiare_23
- Track 165 : Avocado_22
- Track 166 : GodSpeed_23
- Track 167 : Pace1224_22, FlagStaff_22
- Track 168 : Pinnie_23
- Track 169 : Cloudyecho_22
- Track 170 : MOOREtheMARYer_23
- Track 171 : Lemuria_23
- Track 172 : Mercurio_24
- Track 173 : Jolie2_22
- Track 174 : YangYin_22
- Track 175 : Antsirabe_22
- Track 176 : Stargaze_22
- Track 177 : Puissant_28
- Track 178 : Oaker_29
- Track 179 : Damien_29, Cborch11_30, Beckerton_29, Megatron06_31
- Track 180 : Thumb_29, BobtimousPrime_28
- Track 181 : Konstantine_34, Phreeze_29
- Track 182 : DrLupo_38
- Track 183 : Barnyard_36
- Track 184 : PaintedDog_20
- Track 185 : Brujita_21, Island3_21
- Track 186 : Courthouse_36, Superphikiman_36, Squint_35, Porcelain_35, Ariel_36, Lucky2013_36
- Track 187 : LittleE_39
- Track 188 : MiaZeal_36
- Track 189 : Optimus_37
- Track 190 : Shaboozey_30, Hannaconda_33, KashFlow_30, BronnyJames_30, Nibley_31
- Track 191 : Wanda_39, BAKA_36, Omega_38
- Track 192 : Duke13_36
- Track 193 : Minerva_39
- Track 194 : Gonephishing_34
- Track 195 : DmpstrDiver_37
- Track 196 : Durfee_27, Dalmuri_27, Inky_27, Asayake_27, Jeckyll_27, Capricorn_27, BGIuviae_27, CallaLilly_27, Pokerus_26, Ramen_27, Boiii_27, Belladonna_27, Peel_27, Padfoot_27, AlishaPH_27, Twitch_27, CaseJules_27, Llorens_27, Piatt_27, BaghaKamala_27, JAWS_27, BEEST_27, Hyperbowlee_27, Jarvi_27, Spock_27, BarrelRoll_27, Topper_27, CREW_27, Blizzard_27, Homura_27, Rosmarinus_27, ShiaSurprise_27, Lunahalos_27
- Track 197 : MarkPhew_27
- Track 198 : Sulley_27, Angelica_27, Deby_27
- Track 199 : Joy99_27
- Track 200 : CrimD_27
- Track 201 : Prithvi_27, TreyKay_27, LindNT_27
- Track 202 : Adonis_27
- Track 203 : Zavala_27, Mynx_27, Emerson_27, TruffulaTree_27, Padpat_27
- Track 204 : HedwigODU_27, Veliki_27, Zabiza_27, Rapunzel97_27, Jayhawk_27, Adephagia_27, Slimphazie_27, ActinUp_27
- Track 205 : Anaya_28
- Track 206 : Illumine_27, Devera_27, Dole_27
- Track 207 : Pisa4_26, Pisa1_26

- Track 208 : Guanica15_27, Yunkel11_27, Efra2_27
- Track 209 : Geraldini_27, MeaningOfLife_27
- Track 210 : Tachez_27, YoureAdopted_26, Atiba_27
- Track 211 : DrHayes_27, Anma_27, Urkel_27, SamuelLPlaqson_27
- Track 212 : Megsy_27
- Track 213 : Murucutumbu_27
- Track 214 : CheetoDust_27
- Track 215 : Stinson_28
- Track 216 : LeMond_26
- Track 217 : MacKat_27, Clipper_27
- Track 218 : Ganymede_28, QuincyRose_26
- Track 219 : Apocalypse_27
- Track 220 : Bella96_27, DartGoblin_27
- Track 221 : TaiwanKao_28
- Track 222 : Beezoo_27
- Track 223 : TiniBug_27
- Track 224 : Bern_27
- Track 225 : Tiri_27
- Track 226 : Chris_26
- Track 227 : Oscar_26
- Track 228 : KiSi_26
- Track 229 : Ageofdapage_27
- Track 230 : Scarlett_26
- Track 231 : Nibb_26
- Track 232 : LaterM_27
- Track 233 : Marshawn_28
- Track 234 : SirPhilip_26
- Track 235 : Aminay_25
- Track 236 : Boilgate_24
- Track 237 : Vagabond_58, Krili_57, SchoolBus_58, Idergollasper_58, Mori_58, Wogge42_57, YoyoKar_56, KingPhillip3_57, Alkhayr_58, Schuy_59, FAMILTON_59, FoulBall_58, Winget_59, MadKillah_59, NiebruSaylor_57, Blessica_59, TelAviv_55, Zebo_58, Catdawg_58, Imara_56, JangDynasty_58, Vorrrps_58
- Track 238 : YungJamal_63, Wildflower_58, Corndog_61, Shida_58, Dylan_58, Murai_59, Ashwin_60, Zakhe101_58
- Track 239 : Ryadel_62
- Track 240 : Smooch_61, Firecracker_59
- Track 241 : Bora_56
- Track 242 : Shipwreck_20, Bogie_20
- Track 243 : Pygmy_20
- Track 244 : NovoPizza_23
- Track 245 : MaryV_43, Wildcat_43
- Track 246 : Cosmo_43
- Track 247 : Azrael100_42
- Track 248 : EniyanLRS_40
- Track 249 : Gaia_21
- Track 250 : Nebkiss_22
- Track 251 : Kumao_30
- Track 252 : MooMoo_18

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

The start number called the most often in the published annotations is 43, it was called in 236 of the 543 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_20, Aloeri_19, AlpineSix_18, ArcusAngelus_18, Ardmore_18, Ariel_36, Aubs_18, Awesomesauce_19, BAKA_36, Batiatius_18, Beakin_19, Beanstalk_20, Bipolar_18, Blexus_18, BlueCrab_18, BobaPhett_18, Bobi_20, BodEinwohner17_18, Boomer_19, BronnyJames_30, Brookers_19, Brushbloom_19, Bubbles123_19, Burwell21_18, BuzzLyseyear_20, ByChance_18, Byougenkin_18, Cabrinians_18, CaptainTrips_19, Che8_18, CheesePuff_20, Chevrolet_18, ChickenDinner_19, Chuckly_18, Clank_18, Coco12_20, Corium_18, Cornucopia_19, Courthouse_36, DLane_18, DRBy19_18, DaWorst_20, DaddyRickover_18, Daenerys_18, Dante_18, DeadP_18, Deb65_18, DillTech15_18, DirtMcGirt_19, DmpstrDiver_37, DoRead_18, DocMcStuffins_19, Donkeykong_18, Doomphist_18, Doomsbug_20, Dorothy_18, DosHalletts_19, DotProduct_18, Doug_19, Drago_19, Duke13_36, Eish_18, EleanorGeorge_18, EmiMonkey_18, Emma_18, Emmaloid_19, Empress_19, Enby_19, Enzomatic_20, Eradicator_18, Estave1_18, Fancypants_18, Fastidio_18, Filuzino_18, Firehouse51_19, Flathead_19, Florinda_18, Frankie_19, FreddyB_18, Fruitloop_18, GUmbie_18, Galactic_18, Gandolph_18, Geralt_18, GigiOuiOui_18, Girafales_19, Girr_18, Gorge_18, Grimmer_19, Guppsters_19, Hades_18, Hamulus_18, Hannaconda_33, Harley_18, Hegedechwinu_19, Hlubikazi_18, IMpilo_18, IbOuu_18, Ibhubesi_18, Inventum_18, IrishSherpFalk_19, JalFarm20_20, James_18, Jant_18, Jarcob_18, Jinglebell_17, Job42_21, JoeyJr_18, Juice456_20, Juniper1_18, Karhdo_18, KashFlow_30, Kenuha5_18, Kersh_19, Kimberlium_20, KingJulian_18, KingMidas_19, Kingsley_19, Krakatau_19, KristaRAM_19, Latretium_19, Leozinho_19, Leperchaun_18, LilMoolah_18, LittleE_39, LittleShirley_19, Lizziana_18, Llama_18, Llij_18, Lorde_19, Lucia_19, Lucky2013_36, LunaBlu_19, MadMen_19, Madiba_19, Mahavrat_18, Mandlovu_18, Mantra_18, Maravista_18, Marker_19, Martik_18, Mattes_18, Medindi_18, MiaZeal_36, MilleniumForce_19, Minerva_39, MinionDave_19, Minnie_19, Misha28_19, MisterCuddles_18, Modragons_18, MooMoo_18, Moonbeam_19, Mova_19, Mozy_19, MulchExplorer_20, Mutaforma13_18, Mwanjiwa_18, NewHope4_19, Nibley_31, Nichirin_18, Nimbo_18, Nitzel_19, Nivrat_18, NormanBulbieJr_18, Ochi17_18, OfUltron_18, Ogopogo_21, Oksu_19, OldBen_18, OlympiaSaint_18, Omega_38, Optimus_37, Ovechkin_18, OwlsT2W_20, PHappiness_18, PMC_18, Pacc40_18, PatoPoderoso_18, Peridot_20, Phalconet_18, Phanphagia_18, Phasih_19, Phatniss_19, PhesterPhotato_18, Philus_18, PhilipPhlop_18, Piper2020_19, Plumbus_19, Poenanya_18, Polka14_19, Pollywog_21, Polo2Bam_20, PopTart_18, Porcelain_35, Priscilla_18, QuickMath_19, Quico_19, Radiance_18, Ramsey_19, RedBird_18, Rialto_20, RitaG_18, Rita_18, Rockne_18, RockyHorror_19, Royals2015_18, Ruby_18, SG4_18, Saal_18, Sabbb_19, Sandalphon_19, Sassafras_18, SassyB_18, Scottish_19, SeaLumen_19, Seabastian_18, Seagreen_19, Shaboozey_30, Shauna1_18, ShiLan_18, ShowerHandel_18, ShroomBoi_18, SiSi_18, SimranZ1_19, Slim_19, Sparkdehlily_18, Spartacus_19, Spikelee_19, Spoonbill_18, Squint_35, StAnnes_18, Stap_19, Starcevich_19, Strokeseat_18, SuperGrey_19, Superphikiman_36, SwagPigglett_18, TDanisky_18, Taj_18, Tchotchke_19, TootsiePop_19, Tootsieroll_19, Topiatin_20, Totinger_19, Tweety_18, UncleRicky_19, VRedHorse_18, Veteran_18, Violac_19, Vivum_18, Wachhund_18, Wanda_39, Wee_19, Whatsapiecost_18, Whouxphf_18, WillSterrel_19, XFactor_18, Yorick_18, Zerg_18, Zizzle_18,

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

- Avani_24, Che9d_24, Demsculpinboyz_24, Gonephishing_34, Jabbawokkie_26, Melissauren88_18, Soul22_24, Yoshi_24, Zapner_25,

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

- 244_28, 39HC_026, 40BC_026, ABCat_25, ActinUp_27, Adephagia_27, Adnama_29, Adonis_27, Ageofdapage_27, AlishaPH_27, Alkhayr_58, Amao_26, AmericanBeauty_28, Aminay_25, Anaya_28, Angelica_27, Anma_27, Antsirabe_22, Apocalypse_27, Argent26_28, Asayake_27, Ashwin_60, Asriel_25, Atiba_27, Avocado_22, Azrael100_42, BEEST_27, BGlluviae_27, BaboJay_25, BadStone_25, BaghaKamala_27, Balomoji_25, Barbarian_25, Barnyard_36, BarrelRoll_27, Bask21_26, Beckerton_29, Becksu_26, Beezoo_27, Bella96_27, Belladonna_27, Bench_28, Bern_27, BigBubba_27, BilboSwaggins_26, BirdsNest_33, Blarby_25, Blessica_59, Blizzard_27, BobtimousPrime_28, Bogg_26, Bogie_20, Boiii_27, Boilgate_24, Bora_56, Brewer_26, Bruin_26, Brujita_21, Buck_25, Budgie_28, BugsBunny_24, CREW_27, Cactus_27, CallaLilly_27, Cambiare_23, Capricorn_27, CaseJules_27, Catdawg_58, Cborch11_30, CheetoDust_27, ChosenOne_25, ChotaBhai_26, Chris_26, Cjw1_26, Clipper_27, Cloudyecho_22, Command613_27, Contagion_25, Cookies_26, Corndog_61, Cornie_20, Cosmo_43, CrimD_27, CrystalP_26, Czystczon1_27, Daikon_24, Dalmuri_27, Damien_29, DartGoblin_27, Deby_27, Devera_27, DoctorDiddles_26, Dole_27, DrDrey_27, DrHayes_27, DrLupo_38, Dumbo_26, Durfee_27, Dusk_25, Dylan_58, Easy2Say_28, Efra2_27, Elite2014_25, Elph10_27, Emerson_27, Emmina_27, EniyanLRS_40, Eureka_26, FairyPath_26, Familton_59, Filch_27, FireRed_26, Firecracker_59, FlagStaff_22, Flypotenuse_24, FoghornLeghorn_25, ForDig_26, FoulBall_58, Funsized_34, Gage_28, Gaia_21, Ganymede_28, Gator_24, Gemini_29, Geraldini_27, Glexan_24, GodSpeed_23, Goku_26, GoldenSpark_28, Goldilocks_27, GooberAzure_28, Greep_27, Guanica15_27, HanKaySha_27, Harella_25, HedwigODU_27, Henry_26, Highbury_27, Holt_27, Homura_27, Hoonter_28, Hopey_28, Hosp_024, HufflyPuff_25, Hyperbowlee_27, IHOP_26, Icee_25, Idergollasper_58, Illumine_27, Imara_56, Inca_25, Inky_27, Island3_21, JAWS_27, JangDynasty_58, Jarvi_27, Jayhawk_27, JeTaime_28, Jeckyll_27, Jolie1_026, Jolie2_22, Joy99_27, Kanye_28, KayaCho_26, KiSi_26, Kimchi_28, KingPhillip3_57, Konstantine_34, Kostya_26, Krili_57, Kumao_30, LaterM_27, LeMond_26, Lemuria_23, LilMcDreamy_27, Lilac_28, Lilizi_28, Lilpickle_25, LindNT_27, LittleMinkey_35, Llorens_27, LunaStella_20, Lunahalos_27, MISSy_25, MOOREtheMARYer_23, MPhalcon_25, MacKat_27, MadKillah_59, MadamMonkfish_26, Manda_27, MarkPhew_27, Marshawn_28, Marshmallow_26, MaryV_43, Maxxinista_27, MeaningOfLife_27, Megatron06_31, Megsy_27, Mercurio_24, Mindy_26, Miniwave_26, Misfit_26, Moldemort_27, MollyToe_26, Mori_58, Mosby_25, Murai_59, Murica_25, Murphy_27, Murucutumbu_27, Mynx_27, Myrale_26, Nala_26, Nebkiss_22, NelitzaMV_26, Nibb_26, NiebruSaylor_57, Nimrod_26, NoShow_21, NoSleep_27, NonchalantPear_26, NovoPizza_23, Oaker_29, OrionPax_27, Oscar_26, Pace1224_22, PaddyBaddy_27, Padfoot_27, Padpat_27, PaintedDog_20, Palpatine_26, Paperbeatsrock_28, Pat3_25, Peel_27, Petra64142_28, Phaja_26, Pharsalus_27, PhatBacter_26, Phaux_25, Phreeze_29, Phrux_26, Piatt_27, Pinnie_23, Pisa1_26, Pisa4_26, Pokerus_26, Policronamos_26, Porky_26, Prithvi_27, Ptowny_26, Puissant_28, Pumpkin_28, Pygmy_20, Quallification_27, QuincyRose_26, Rakim_27, Ramen_27, Rapunzel97_27, Renaud18_20, Rimmer_25, Rinkes_33, RiverMonster_26, Rosmarinus_27, Ryadel_62, Saints25_27, SamuelLPlaqson_27, Sassay_25, Scarlett_26, SchoolBus_58, Schuy_59, ShamWow_26, ShereKhan_28, ShiaSurprise_27, Shida_58, Shipwreck_20, SilverChicken_24, Simpliphy_27, SirDuracell_25, SirPhilip_26, Slimphazie_27,

Smooch_61, SophKB_26, Sotrice96_26, Spock_27, Stank_29, Stargaze_22, Stark_27, StellaBean_26, Stinson_28, StolenFromERC_28, StormChicken_26, Sulley_27, TBrady12_28, Tachez_27, TaiwanKao_28, Tarkin_28, TeamEdward_26, TeardropMSU_25, Teaspoon_27, TelAviv_55, Terminus_26, ThetaBob_20, Thimble_26, Thresher_27, Thumb_29, TiniBug_27, Tiri_27, Tomaszewski_25, Topper_27, Toron_20, Toto_26, Traaww1_24, TreyKay_27, TruffulaTree_27, Tuco_27, Twitch_27, Ukulele_26, Urkel_27, Vagabond_58, Veliki_27, Vorrrps_58, Wiggin_29, Wildcat_43, Wildflower_58, Willez_25, Winget_59, Wogge42_57, Xandras_28, YangYin_22, YassJohnny_27, Youngblood_26, YoureAdopted_26, YoyoKar_56, YungJamal_63, Yunkel11_27, Zabiza_27, Zakhe101_58, Zavala_27, Zebo_58, xkcd_27,

Summary by start number:

Start 2:

- Found in 2 of 610 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_36 (H2), DrLupo_38 (H2),

Start 15:

- Found in 10 of 610 (1.6%) of genes in pham
- Manual Annotations of this start: 8 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_29 (H1), BobtimousPrime_28 (H1), Cborch11_30 (H1), Damien_29 (H1), Konstantine_34 (H1), Megatron06_31 (H1), Oaker_29 (H1), Phreeze_29 (H1), Puissant_28 (H1), Thumb_29 (H1),

Start 17:

- Found in 3 of 610 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 543
- Called 33.3% of time when present
- Phage (with cluster) where this start called: NovoPizza_23 (Q),

Start 27:

- Found in 7 of 610 (1.1%) of genes in pham
- Manual Annotations of this start: 7 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_24 (F2), Che9d_24 (F2), Demsculpinboyz_24 (F2), Jabbawokkie_26 (F2), Soul22_24 (F2), Yoshi_24 (F2), Zapner_25 (F2),

Start 29:

- Found in 2 of 610 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Blarby_25 (F),

Start 31:

- Found in 2 of 610 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_21 (X), Nebkiss_22 (X),

Start 39:

- Found in 14 of 610 (2.3%) of genes in pham
- Manual Annotations of this start: 9 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_22 (G5), Avocado_22 (G2), Cambiare_23 (G2), Cloudyecho_22 (G3), FlagStaff_22 (G2), GodSpeed_23 (G2), Jolie2_22 (G4), Lemuria_23 (G4), MOOREtheMARYer_23 (G3), Mercurio_24 (G4), Pace1224_22 (G2), Pinnie_23 (G3), Stargaze_22 (G5), YangYin_22 (G5),

Start 42:

- Found in 6 of 610 (1.0%) of genes in pham
- Manual Annotations of this start: 6 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_42 (V), Cosmo_43 (V), EniyanLRS_40 (V), Kumao_30 (singleton), MaryV_43 (V), Wildcat_43 (V),

Start 43:

- Found in 270 of 610 (44.3%) of genes in pham
- Manual Annotations of this start: 236 of 543
- Called 96.7% of time when present
- Phage (with cluster) where this start called: Alexphander_20 (F1), Aloeri_19 (F1), AlpineSix_18 (F1), ArcusAngelus_18 (F1), Ardmore_18 (F1), Ariel_36 (J), Aubs_18 (F1), Awesomesauce_19 (F1), BAKA_36 (J), Batiatus_18 (F1), Beakin_19 (F1), Beanstalk_20 (F1), Bipolar_18 (F1), Blexus_18 (F1), BlueCrab_18 (F1), BobaPhett_18 (F1), Bobi_20 (F1), BodEinwohner17_18 (F1), Boomer_19 (F1), BronnyJames_30 (J), Brookers_19 (F1), Brushbloom_19 (F1), Bubbles123_19 (F1), Burwell21_18 (F1), BuzzLyseyear_20 (F1), ByChance_18 (F1), Byougenkin_18 (F1), Cabrinians_18 (F1), CaptainTrips_19 (F1), Che8_18 (F1), Cheesepuff_20 (F1), Chevrolet_18 (F1), ChickenDinner_19 (F1), Chuckly_18 (F1), Clank_18 (F), Coco12_20 (F1), Corium_18 (F1), Cornucopia_19 (F1), Courthouse_36 (J), DLane_18 (F1), DRBy19_18 (F1), DaWorst_20 (F1), DaddyRickover_18 (F1), Daenerys_18 (F1), Dante_18 (F1), DeadP_18 (F1), Deb65_18 (F1), DillTech15_18 (F1), DirtMcgirt_19 (F1), DmpstrDiver_37 (J), DoRead_18 (F1), DocMcStuffins_19 (F1), Donkeykong_18 (F1), Doomphist_18 (F1), Doomslug_20 (F), Dorothy_18 (F1), DosHalletts_19 (F1), DotProduct_18 (F1), Doug_19 (F1), Drago_19 (F1), Duke13_36 (J), Eish_18 (F1), EleanorGeorge_18 (F1), EmiMonkey_18 (F1), Emma_18 (F1), Emmaloid_19 (F1), Empress_19 (F1), Enby_19 (F1), Enzomatic_20 (F1), Eradicator_18 (F1), Estave1_18 (F1), Fancypants_18 (F1), Fastidio_18 (F1), Filuzino_18 (F1), Firehouse51_19 (F1), Flathead_19 (F1), Florinda_18 (F1), Frankie_19 (F1), FreddyB_18 (F1), Fruitloop_18 (F1), GUmbie_18 (F1), Galactic_18 (F1), Gandolph_18 (F1), Geralt_18 (F1), GigiOuiOui_18 (F1), Girafales_19 (F1), Girr_18 (F1), Gorge_18 (F1), Grimmer_19 (F1), Guppsters_19 (F1), Hades_18 (F1), Hamulus_18 (F1), Hannaconda_33 (J), Harley_18 (F1), Hegedechwinu_19 (F1), Hlubikazi_18 (F1), IMpilo_18 (F1), IbOuu_18 (F1), Ibhubesi_18 (F1), Inventum_18 (F1), IrishSherpFalk_19 (F1), JalFarm20_20 (F1), James_18 (F1), Jant_18 (F1), Jacob_18 (F1), Jinglebell_17 (F1), Job42_21 (F1), JoeyJr_18 (F1), Juice456_20 (F1), Juniper1_18 (F1), Karhdo_18 (F1), KashFlow_30 (J), Kenuha5_18 (F1), Kersh_19 (F1), Kimberlium_20 (F1), KingJulian_18 (F1), KingMidas_19 (F1), Kingsley_19 (F1), Krakatau_19 (F1), KristaRAM_19 (F1), Latretium_19 (F1), Leozinho_19 (F1), Leperchaun_18 (F1), LilMoolah_18 (F1), LittleE_39 (J), LittleShirley_19 (F1), Lizziana_18 (F1), Llama_18 (F1), Llij_18 (F1), Lorde_19 (F1), Lucia_19 (F1), Lucky2013_36 (J), LunaBlu_19 (F1), MadMen_19 (F1), Madiba_19

(F1), Mahavrat_18 (F1), Mandlovu_18 (F1), Mantra_18 (F1), Maravista_18 (F1), Marker_19 (F1), Martik_18 (F1), Mattes_18 (F1), Medindi_18 (F1), MiaZeal_36 (J), MilleniumForce_19 (F1), Minerva_39 (J), MinionDave_19 (F1), Minnie_19 (F1), Misha28_19 (F1), MisterCuddles_18 (F1), Modragons_18 (F1), MooMoo_18 (singleton), Moonbeam_19 (F1), Movu_19 (F1), Mozy_19 (F1), MulchExplorer_20 (F1), Mutaforma13_18 (F1), Mwanjiwa_18 (F1), NewHope4_19 (F1), Nibley_31 (J), Nichirin_18 (F1), Nimbo_18 (F1), Nitze_19 (F1), Nivrat_18 (F1), NormanBulbieJr_18 (F1), Ochi17_18 (F1), OfUltron_18 (F1), Ogoopogo_21 (F1), Oksu_19 (F1), OldBen_18 (F1), OlympiaSaint_18 (F1), Omega_38 (J), Optimus_37 (J), Ovechkin_18 (F1), OwlsT2W_20 (F1), PHappiness_18 (F1), PMC_18 (F1), Pacc40_18 (F1), PatoPoderoso_18 (F1), Peridot_20 (F1), Phalconet_18 (F1), Phanphagia_18 (F1), Phasih_19 (F1), Phatniss_19 (F1), PhesterPhotato_18 (F1), Philus_18 (F1), PhilipPhlop_18 (F1), Piper2020_19 (F1), Plumbus_19 (F1), Poenanya_18 (F1), Polka14_19 (F1), Pollywog_21 (F1), Polo2Bam_20 (F1), PopTart_18 (F1), Porcelain_35 (J), Priscilla_18 (F1), QuickMath_19 (F1), Quico_19 (F1), Radiance_18 (F1), Ramsey_19 (F1), RedBird_18 (F1), Rialto_20 (F1), RitaG_18 (F1), Rita_18 (F1), Rockne_18 (F1), RockyHorror_19 (F1), Royals2015_18 (F1), Ruby_18 (F1), SG4_18 (F1), Saal_18 (F1), Sabbb_19 (F1), Sandalphon_19 (F1), Sassafras_18 (F1), SassyB_18 (F1), Scottish_19 (F1), SeaLumen_19 (F1), Seabastian_18 (F1), Seagreen_19 (F1), Shaboozey_30 (J), Shauna1_18 (F1), ShiLan_18 (F1), ShowerHandel_18 (F1), ShroomBoi_18 (F1), SiSi_18 (F1), SimranZ1_19 (F1), Slim_19 (F1), Sparkdehlily_18 (F1), Spartacus_19 (F1), Spikelee_19 (F1), Spoonbill_18 (F1), Squint_35 (J), StAnnes_18 (F1), Stap_19 (F1), Starceovich_19 (F1), Strokeseat_18 (F1), SuperGrey_19 (F1), Superphikiman_36 (J), SwagPigglett_18 (F1), TDanisky_18 (F1), Taj_18 (F1), Tchotchke_19 (F1), TootsiePop_19 (F1), Tootsieroll_19 (F1), Topiatin_20 (F1), Totinger_19 (F1), Tweety_18 (F1), UncleRicky_19 (F1), VRedHorse_18 (F1), Veteran_18 (F1), Violac_19 (F1), Vivum_18 (F1), Wachhund_18 (F1), Wanda_39 (J), Wee_19 (F1), Whatsapiecost_18 (F1), Whouxphf_18 (F1), WillSterrel_19 (F1), XFactor_18 (F1), Yorick_18 (F1), Zerg_18 (F1), Zizzle_18 (F1),

Start 45:

- Found in 2 of 610 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 543
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cornie_20 (F5),

Start 46:

- Found in 3 of 610 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LunaStella_20 (F4), Renaud18_20 (F4), ThetaBob_20 (F4),

Start 47:

- Found in 12 of 610 (2.0%) of genes in pham
- Manual Annotations of this start: 6 of 543
- Called 91.7% of time when present
- Phage (with cluster) where this start called: 39HC_026 (B6), 40BC_026 (B6), BirdsNest_33 (B13), ForDig_26 (B6), Funsized_34 (B9), Hosp_024 (B6), Jolie1_026 (B6), KayaCho_26 (B6), LilMcDreamy_27 (B12), LittleMinkey_35 (B13), Rinkes_33 (B9),

Start 54:

- Found in 3 of 610 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brujita_21 (I1), Island3_21 (I1), PaintedDog_20 (I1),

Start 57:

- Found in 37 of 610 (6.1%) of genes in pham
- Manual Annotations of this start: 33 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_58 (O), Ashwin_60 (O), Blessica_59 (O), Bogie_20 (P1), Bora_56 (O), Catdawg_58 (O), Corndog_61 (O), Dylan_58 (O), Familton_59 (O), Firecracker_59 (O), FoulBall_58 (O), Idergollasper_58 (O), Imara_56 (O), JangDynasty_58 (O), KingPhillip3_57 (O), Krili_57 (O), MadKillah_59 (O), Mori_58 (O), Murai_59 (O), NiebruSaylor_57 (O), Pygmy_20 (P1), Ryadel_62 (O), SchoolBus_58 (O), Schuy_59 (O), Shida_58 (O), Shipwreck_20 (P1), Smooch_61 (O), TelAviv_55 (O), Vagabond_58 (O), Vorrrps_58 (O), Wildflower_58 (O), Winget_59 (O), Wogge42_57 (O), YoyoKar_56 (O), YungJamal_63 (O), Zakhe101_58 (O), Zebo_58 (O),

Start 60:

- Found in 207 of 610 (33.9%) of genes in pham
- Manual Annotations of this start: 1 of 543
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Melissauren88_18 (F1),

Start 70:

- Found in 1 of 610 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SilverChicken_24 (F2),

Start 80:

- Found in 148 of 610 (24.3%) of genes in pham
- Manual Annotations of this start: 128 of 543
- Called 97.3% of time when present
- Phage (with cluster) where this start called: 244_28 (E), ABCat_25 (E), Adnama_29 (E), Amao_26 (E), AmericanBeauty_28 (E), Argent26_28 (E), Asriel_25 (E), BaboJay_25 (E), BadStone_25 (E), Balomoji_25 (E), Barbarian_25 (E), Bask21_26 (E), Becksu_26 (E), Bench_28 (E), BigBubba_27 (E), BilboSwaggins_26 (E), Bogg_26 (E), Brewer_26 (E), Bruin_26 (E), Buck_25 (E), Budgie_28 (E), BugsBunny_24 (E), Cactus_27 (E), ChosenOne_25 (E), ChotaBhai_26 (E), Cjw1_26 (E), Command613_27 (E), Contagion_25 (E), Cookies_26 (E), CrystalP_26 (E), Czystczon1_27 (E), Daikon_24 (E), DoctorDiddles_26 (E), DrDrey_27 (E), Dumbo_26 (E), Dusk_25 (E), Easy2Say_28 (E), Elite2014_25 (E), Elph10_27 (E), Emmina_27 (E), Eureka_26 (E), FairyPath_26 (E), Filch_27 (E), FireRed_26 (E), Flypotenuse_24 (E), FoghornLeghorn_25 (E), Gage_28 (E), Gator_24 (E), Gemini_29 (E), Glexan_24 (E), Goku_26 (E), GoldenSpark_28 (E), Goldilocks_27 (E), GooberAzure_28 (E), Greep_27 (E), HanKaySha_27 (E), Harella_25 (E), Henry_26 (E), Highbury_27 (E), Holt_27 (E), Hoonter_28 (E), Hopey_28 (E), HufflyPuff_25 (E), IHOP_26 (E), Icee_25 (E), Inca_25 (E), JeTaimie_28 (E), Kanye_28 (E), Kimchi_28 (E), Kostya_26 (E), Lilac_28 (E), Lilizi_28 (E), Lilpickle_25 (E), MISSy_25 (E),

MPhalcon_25 (E), MadamMonkfish_26 (E), Manda_27 (E), Marshmallow_26 (E), Maxxinista_27 (E), Mindy_26 (E), Miniwave_26 (E), Misfit_26 (E), Moldemort_27 (E), MollyToe_26 (E), Mosby_25 (E), Murica_25 (E), Murphy_27 (E), Myrale_26 (E), Nala_26 (E), NelitzaMV_26 (E), Nimrod_26 (E), NoSleep_27 (E), NonchalantPear_26 (E), OrionPax_27 (E), PaddyBaddy_27 (E), Palpatine_26 (E), Paperbeatsrock_28 (E), Pat3_25 (E), Petra64142_28 (E), Phaja_26 (E), Pharsalus_27 (E), PhatBacter_26 (E), Phaux_25 (E), Phrux_26 (E), Policronamos_26 (E), Porky_26 (E), Ptowny_26 (E), Pumpkin_28 (E), Qualification_27 (E), Rakim_27 (E), Rimmer_25 (E), RiverMonster_26 (E), Saints25_27 (E), Sassay_25 (E), ShamWow_26 (E), ShereKhan_28 (E), Simpliphy_27 (E), SirDuracell_25 (E), SophKB_26 (E), Sotrice96_26 (E), Stank_29 (E), Stark_27 (E), StellaBean_26 (E), StolenFromERC_28 (E), StormChicken_26 (E), TBrady12_28 (E), Tarkin_28 (E), TeamEdward_26 (E), TeardropMSU_25 (E), Teaspoon_27 (E), Terminus_26 (E), Thimble_26 (E), Thresher_27 (E), Tomaszewski_25 (E), Toto_26 (E), Traaww1_24 (E), Tucō_27 (E), Ukulele_26 (E), Wiggins_29 (E), Willez_25 (E), Xandras_28 (E), YassJohnny_27 (E), Youngblood_26 (E), xkcd_27 (E),

Start 86:

- Found in 2 of 610 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 543
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Boilgate_24 (K8),

Start 88:

- Found in 101 of 610 (16.6%) of genes in pham
- Manual Annotations of this start: 96 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_27 (K1), Adephagia_27 (K1), Adonis_27 (K1), Ageofdapage_27 (K1), AlishaPH_27 (K1), Aminay_25 (K7), Anaya_28 (K1), Angelica_27 (K1), Anma_27 (K1), Apocalypse_27 (K1), Asayake_27 (K1), Atiba_27 (K1), BEEST_27 (K1), BGlluviae_27 (K1), BaghaKamala_27 (K1), BarrelRoll_27 (K1), Beezoo_27 (K1), Bella96_27 (K1), Belladonna_27 (K1), Bern_27 (K1), Blizzard_27 (K1), Boiii_27 (K1), CREW_27 (K1), CallaLilly_27 (K1), Capricorn_27 (K1), CaseJules_27 (K1), CheetoDust_27 (K1), Chris_26 (K1), Clipper_27 (K1), CrimD_27 (K1), Dalmuri_27 (K1), DartGoblin_27 (K1), Deby_27 (K1), Devera_27 (K1), Dole_27 (K1), DrHayes_27 (K1), Durfee_27 (K1), Efra2_27 (K1), Emerson_27 (K1), Ganymede_28 (K1), Geraldini_27 (K1), Guanica15_27 (K1), HedwigODU_27 (K1), Homura_27 (K1), Hyperbowlee_27 (K1), Illumine_27 (K1), Inky_27 (K1), JAWS_27 (K1), Jarvi_27 (K1), Jayhawk_27 (K1), Jeckyll_27 (K1), Joy99_27 (K1), KiSi_26 (K1), LaterM_27 (K1), LeMond_26 (K1), LindNT_27 (K1), Llorens_27 (K1), Lunahalos_27 (K1), MacKat_27 (K1), MarkPhew_27 (K1), Marshawn_28 (K6), MeaningOfLife_27 (K1), Megsy_27 (K1), Murucutumbu_27 (K1), Mynx_27 (K1), Nibb_26 (K1), Oscar_26 (K1), Padfoot_27 (K1), Padpat_27 (K1), Peel_27 (K1), Piatt_27 (K1), Pisa1_26 (K1), Pisa4_26 (K1), Pokerus_26 (K1), Prithvi_27 (K1), QuincyRose_26 (K1), Ramen_27 (K1), Rapunzel97_27 (K1), Rosmarinus_27 (K1), SamuelLPlaqson_27 (K1), Scarlett_26 (K1), ShiaSurprise_27 (K1), SirPhilip_26 (K6), Slimphazie_27 (K1), Spock_27 (K1), Stinson_28 (K1), Sulley_27 (K1), Tachez_27 (K1), TaiwanKao_28 (K1), TiniBug_27 (K1), Tiri_27 (K1), Topper_27 (K1), TreyKay_27 (K1), TruffulaTree_27 (K1), Twitch_27 (K1), Urkel_27 (K1), Veliki_27 (K1), YoureAdopted_26 (K1), Yunkel11_27 (K1), Zabiza_27 (K1), Zavala_27 (K1),

Start 100:

- Found in 5 of 610 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Toron_20 (F6),

Start 122:

- Found in 1 of 610 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 543
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_21 (AB),

Start 124:

- Found in 269 of 610 (44.1%) of genes in pham
- No Manual Annotations of this start.
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Gonephishing_34 (J),

Summary by clusters:

There are 30 clusters represented in this pham: singleton, K1, AB, K7, K6, K8, G5, G4, G3, G2, I1, P1, E, F, J, O, Q, V, X, F1, F2, F4, F5, F6, H2, H1, B6, B12, B9, B13,

Info for manual annotations of cluster AB:

- Start number 122 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster B12:

- Start number 47 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 47 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B6:

- Start number 47 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B9:

- Start number 47 was manually annotated 2 times for cluster B9.

Info for manual annotations of cluster E:

- Start number 80 was manually annotated 128 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 43 was manually annotated 218 times for cluster F1.
- Start number 60 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 27 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 46 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 45 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster G2:

- Start number 39 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 39 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 39 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 39 was manually annotated 2 times for cluster G5.

Info for manual annotations of cluster H1:

- Start number 15 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 2 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster I1:

- Start number 54 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:

- Start number 43 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster K1:

- Start number 88 was manually annotated 93 times for cluster K1.

Info for manual annotations of cluster K6:

- Start number 88 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 88 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 86 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster O:

- Start number 57 was manually annotated 30 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 57 was manually annotated 3 times for cluster P1.

Info for manual annotations of cluster Q:

- Start number 17 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster V:

- Start number 42 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:

- Start number 31 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_28 Start: 22564, Stop: 24960, Start Num: 80

Candidate Starts for 244_28:

(Start: 80 @22564 has 128 MA's), (157, 22741), (162, 22762), (220, 22909), (254, 23083), (260, 23116), (268, 23152), (301, 23245), (319, 23305), (324, 23323), (350, 23455), (364, 23500), (393, 23632), (399, 23677), (416, 23737), (442, 23851), (445, 23872), (453, 23911), (456, 23932), (458, 23947), (489, 24097), (491, 24103), (494, 24121), (508, 24175), (525, 24259), (547, 24352), (591, 24598), (626, 24814), (637, 24898), (643, 24931),

Gene: 39HC_026 Start: 27572, Stop: 30067, Start Num: 47

Candidate Starts for 39HC_026:

(Start: 47 @27572 has 6 MA's), (68, 27629), (85, 27686), (139, 27806), (149, 27824), (170, 27896), (174, 27902), (192, 27956), (203, 27992), (243, 28175), (252, 28220), (260, 28259), (272, 28307), (273, 28313), (292, 28361), (300, 28391), (311, 28418), (319, 28454), (324, 28472), (329, 28496), (334, 28520), (350, 28604), (361, 28640), (372, 28670), (379, 28706), (383, 28724), (420, 28931), (422, 28943), (425, 28952), (438, 29021), (440, 29027), (441, 29030), (443, 29039), (448, 29069), (456, 29114), (458, 29129), (474, 29210), (478, 29222), (480, 29240), (482, 29246), (484, 29261), (486, 29267), (504, 29348), (524, 29420), (528, 29438), (531, 29453), (565, 29663), (567, 29684), (571, 29702), (623, 29999),

Gene: 40BC_026 Start: 27572, Stop: 30067, Start Num: 47

Candidate Starts for 40BC_026:

(Start: 47 @27572 has 6 MA's), (68, 27629), (85, 27686), (139, 27806), (149, 27824), (170, 27896), (174, 27902), (192, 27956), (203, 27992), (243, 28175), (252, 28220), (260, 28259), (272, 28307), (273, 28313), (292, 28361), (300, 28391), (311, 28418), (319, 28454), (324, 28472), (329, 28496), (334, 28520), (350, 28604), (361, 28640), (372, 28670), (379, 28706), (383, 28724), (420, 28931), (422, 28943), (425, 28952), (438, 29021), (440, 29027), (441, 29030), (443, 29039), (448, 29069), (456, 29114), (458, 29129), (474, 29210), (478, 29222), (480, 29240), (482, 29246), (484, 29261), (486, 29267), (504, 29348), (524, 29420), (528, 29438), (531, 29453), (565, 29663), (567, 29684), (571, 29702), (623, 29999),

Gene: ABCat_25 Start: 22283, Stop: 24679, Start Num: 80

Candidate Starts for ABCat_25:

(Start: 80 @22283 has 128 MA's), (157, 22460), (162, 22481), (220, 22628), (247, 22769), (254, 22802), (260, 22835), (268, 22871), (301, 22964), (319, 23024), (324, 23042), (341, 23123), (393, 23351), (399, 23396), (445, 23591), (446, 23597), (448, 23606), (456, 23651), (458, 23666), (491, 23822), (494, 23840), (497, 23849), (509, 23903), (525, 23978), (526, 23981), (564, 24191), (566, 24203), (591, 24317), (626, 24533), (637, 24617), (641, 24641), (643, 24650),

Gene: ActinUp_27 Start: 20881, Stop: 23313, Start Num: 88

Candidate Starts for ActinUp_27:

(Start: 88 @20881 has 96 MA's), (132, 20980), (218, 21241), (223, 21262), (263, 21469), (272, 21502), (276, 21532), (297, 21604), (303, 21628), (316, 21673), (346, 21826), (353, 21871), (356, 21883), (360, 21892), (375, 21943), (406, 22123), (410, 22138), (424, 22207), (428, 22219), (448, 22324), (456, 22363), (457, 22369), (458, 22378), (475, 22459), (484, 22507), (502, 22582), (509, 22618), (529, 22699), (534, 22720), (553, 22813), (565, 22909), (594, 23056), (602, 23098), (610, 23137), (619, 23212),

Gene: Adephagia_27 Start: 20878, Stop: 23310, Start Num: 88

Candidate Starts for Adephagia_27:

(Start: 88 @20878 has 96 MA's), (132, 20977), (218, 21238), (223, 21259), (263, 21466), (272, 21499), (276, 21529), (297, 21601), (303, 21625), (316, 21670), (346, 21823), (353, 21868), (356, 21880), (360, 21889), (375, 21940), (406, 22120), (410, 22135), (424, 22204), (428, 22216), (448, 22321), (456, 22360), (457, 22366), (458, 22375), (475, 22456), (484, 22504), (502, 22579), (509, 22615), (529, 22696), (534, 22717), (553, 22810), (565, 22906), (594, 23053), (602, 23095), (610, 23134), (619, 23209),

Gene: Adnama_29 Start: 22791, Stop: 25187, Start Num: 80

Candidate Starts for Adnama_29:

(Start: 80 @22791 has 128 MA's), (157, 22968), (162, 22989), (220, 23136), (254, 23310), (260, 23343), (268, 23379), (301, 23472), (319, 23532), (324, 23550), (350, 23682), (364, 23727), (393, 23859), (399, 23904), (416, 23964), (442, 24078), (445, 24099), (453, 24138), (456, 24159), (458, 24174), (489, 24324), (491, 24330), (494, 24348), (508, 24402), (525, 24486), (547, 24579), (591, 24825), (626, 25041), (637, 25125), (643, 25158),

Gene: Adonis_27 Start: 20884, Stop: 23316, Start Num: 88

Candidate Starts for Adonis_27:

(Start: 88 @20884 has 96 MA's), (132, 20983), (218, 21244), (223, 21265), (263, 21472), (272, 21505), (276, 21535), (297, 21607), (303, 21631), (316, 21676), (346, 21829), (353, 21874), (356, 21886), (360, 21895), (375, 21946), (406, 22126), (410, 22141), (424, 22210), (440, 22285), (448, 22327), (456, 22366), (457, 22372), (458, 22381), (462, 22402), (475, 22462), (501, 22579), (509, 22621), (527, 22693), (529, 22702), (534, 22723), (548, 22795), (553, 22816), (565, 22912), (576, 22975), (602, 23101), (610, 23140), (626, 23287),

Gene: Ageofdapage_27 Start: 20828, Stop: 23260, Start Num: 88

Candidate Starts for Ageofdapage_27:

(Start: 88 @20828 has 96 MA's), (132, 20927), (134, 20930), (180, 21056), (218, 21188), (223, 21209), (248, 21341), (272, 21449), (297, 21551), (303, 21575), (311, 21593), (316, 21620), (331, 21686), (346, 21773), (356, 21830), (360, 21839), (371, 21875), (375, 21890), (406, 22070), (410, 22085), (428, 22166), (440, 22229), (448, 22271), (456, 22310), (457, 22316), (458, 22325), (475, 22406), (482, 22439), (484, 22454), (485, 22457), (498, 22511), (501, 22523), (527, 22637), (529, 22646), (565, 22856), (602, 23045), (610, 23084), (626, 23231),

Gene: Alexphander_20 Start: 17923, Stop: 20460, Start Num: 43

Candidate Starts for Alexphander_20:

(Start: 43 @17923 has 236 MA's), (52, 17944), (Start: 60 @17965 has 1 MA's), (75, 18004), (109, 18073), (113, 18082), (115, 18085), (124, 18103), (138, 18136), (143, 18151), (194, 18310), (195, 18313), (208, 18343), (212, 18358), (229, 18436), (232, 18457), (233, 18460), (246, 18526), (260, 18601), (261, 18607), (272, 18649), (273, 18655), (274, 18658), (291, 18691), (293, 18697), (301, 18727), (310, 18748), (316, 18778), (319, 18787), (342, 18895), (345, 18907), (346, 18916), (347, 18919), (348, 18928), (349, 18934), (352, 18949), (354, 18952), (362, 18973), (375, 19015), (381, 19048), (405, 19189), (407, 19195), (420, 19249), (421, 19252), (428, 19279), (443, 19339), (445, 19354), (447, 19366), (448, 19369), (459, 19435), (464, 19459), (467, 19480), (469, 19489), (482, 19549), (483, 19552), (491, 19588), (494, 19606), (499, 19618), (501, 19627), (507, 19654), (522, 19723), (525, 19741), (528, 19750), (530, 19762), (536, 19798), (544, 19828), (559, 19909), (565, 19963), (576, 20023), (581, 20065), (601, 20143), (612, 20200), (616, 20224), (622, 20278), (626, 20326), (634, 20368), (636, 20392), (637, 20395),

Gene: AlishaPH_27 Start: 20871, Stop: 23303, Start Num: 88

Candidate Starts for AlishaPH_27:

(Start: 88 @20871 has 96 MA's), (132, 20970), (218, 21231), (223, 21252), (263, 21459), (272, 21492), (276, 21522), (297, 21594), (303, 21618), (346, 21816), (353, 21861), (356, 21873), (360, 21882), (375, 21933), (406, 22113), (410, 22128), (424, 22197), (428, 22209), (440, 22272), (448, 22314),

(456, 22353), (457, 22359), (458, 22368), (462, 22389), (475, 22449), (501, 22566), (509, 22608), (527, 22680), (529, 22689), (534, 22710), (548, 22782), (553, 22803), (565, 22899), (594, 23046), (610, 23127), (626, 23274),

Gene: Alkhayr_58 Start: 35810, Stop: 38320, Start Num: 57

Candidate Starts for Alkhayr_58:

(Start: 57 @35810 has 33 MA's), (69, 35843), (93, 35912), (95, 35915), (106, 35939), (115, 35963), (126, 35987), (138, 36020), (200, 36227), (203, 36239), (204, 36242), (237, 36389), (240, 36419), (246, 36443), (255, 36473), (256, 36476), (260, 36503), (263, 36527), (273, 36557), (296, 36614), (302, 36638), (315, 36674), (316, 36686), (323, 36710), (324, 36713), (332, 36755), (352, 36851), (354, 36854), (413, 37109), (445, 37253), (456, 37313), (466, 37385), (467, 37388), (488, 37484), (525, 37658), (530, 37679), (552, 37772), (555, 37784), (565, 37874), (579, 37949), (598, 37994), (630, 38195), (635, 38249), (640, 38264),

Gene: Aloeri_19 Start: 17271, Stop: 19796, Start Num: 43

Candidate Starts for Aloeri_19:

(Start: 43 @17271 has 236 MA's), (52, 17292), (Start: 60 @17313 has 1 MA's), (75, 17352), (109, 17421), (113, 17430), (115, 17433), (124, 17451), (138, 17484), (143, 17499), (160, 17547), (194, 17658), (195, 17661), (212, 17706), (229, 17784), (233, 17808), (246, 17874), (247, 17883), (260, 17949), (261, 17955), (263, 17973), (272, 17997), (273, 18003), (274, 18006), (291, 18039), (293, 18045), (301, 18075), (310, 18096), (319, 18135), (323, 18150), (325, 18156), (354, 18300), (372, 18351), (392, 18462), (400, 18513), (404, 18537), (428, 18630), (439, 18675), (442, 18684), (445, 18705), (447, 18717), (448, 18720), (456, 18765), (464, 18810), (466, 18828), (467, 18831), (478, 18882), (489, 18933), (491, 18939), (494, 18957), (499, 18969), (501, 18978), (508, 19011), (525, 19092), (540, 19161), (547, 19188), (553, 19215), (560, 19266), (565, 19314), (615, 19557), (626, 19662), (631, 19683), (639, 19737), (642, 19761),

Gene: AlpineSix_18 Start: 17634, Stop: 20171, Start Num: 43

Candidate Starts for AlpineSix_18:

(Start: 43 @17634 has 236 MA's), (52, 17655), (Start: 60 @17676 has 1 MA's), (75, 17715), (109, 17784), (113, 17793), (115, 17796), (124, 17814), (143, 17862), (194, 18021), (195, 18024), (211, 18066), (212, 18069), (229, 18147), (232, 18168), (233, 18171), (246, 18237), (247, 18246), (255, 18282), (260, 18312), (261, 18318), (272, 18360), (273, 18366), (274, 18369), (291, 18402), (293, 18408), (301, 18438), (310, 18459), (316, 18489), (319, 18498), (342, 18606), (345, 18618), (346, 18627), (347, 18630), (348, 18639), (349, 18645), (352, 18660), (354, 18663), (362, 18684), (375, 18726), (381, 18759), (405, 18900), (407, 18906), (420, 18960), (421, 18963), (428, 18990), (445, 19065), (447, 19077), (448, 19080), (459, 19146), (463, 19167), (464, 19170), (467, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (499, 19329), (522, 19434), (525, 19452), (528, 19461), (530, 19473), (536, 19509), (544, 19539), (549, 19560), (556, 19584), (559, 19620), (576, 19734), (581, 19776), (601, 19854), (612, 19911), (616, 19935), (622, 19989), (626, 20037), (634, 20079), (636, 20103), (637, 20106),

Gene: Amao_26 Start: 21488, Stop: 23884, Start Num: 80

Candidate Starts for Amao_26:

(Start: 80 @21488 has 128 MA's), (157, 21665), (162, 21686), (220, 21833), (247, 21974), (254, 22007), (268, 22076), (301, 22169), (319, 22229), (324, 22247), (350, 22379), (364, 22424), (393, 22556), (399, 22601), (442, 22775), (445, 22796), (453, 22835), (456, 22856), (458, 22871), (491, 23027), (494, 23045), (508, 23099), (525, 23183), (583, 23507), (626, 23738), (637, 23822), (643, 23855),

Gene: AmericanBeauty_28 Start: 22271, Stop: 24667, Start Num: 80

Candidate Starts for AmericanBeauty_28:

(Start: 80 @22271 has 128 MA's), (157, 22448), (162, 22469), (220, 22616), (247, 22757), (254, 22790), (260, 22823), (268, 22859), (301, 22952), (319, 23012), (324, 23030), (350, 23162), (364, 23207), (393, 23339), (399, 23384), (416, 23444), (442, 23558), (445, 23579), (453, 23618), (456, 23639), (458, 23654), (489, 23804), (491, 23810), (494, 23828), (508, 23882), (525, 23966), (547, 24059), (591, 24305), (626, 24521), (637, 24605), (643, 24638),

Gene: Aminay_25 Start: 21018, Stop: 23477, Start Num: 88

Candidate Starts for Aminay_25:

(Start: 88 @21018 has 96 MA's), (132, 21120), (187, 21264), (205, 21327), (213, 21360), (223, 21402), (262, 21609), (271, 21642), (282, 21693), (297, 21756), (300, 21771), (303, 21780), (304, 21786), (311, 21798), (338, 21921), (339, 21933), (352, 22011), (376, 22104), (379, 22119), (389, 22179), (401, 22251), (409, 22287), (418, 22332), (420, 22341), (431, 22380), (438, 22431), (440, 22437), (478, 22638), (484, 22677), (487, 22686), (534, 22878), (553, 22971), (570, 23109), (606, 23277),

Gene: Anaya_28 Start: 20897, Stop: 23329, Start Num: 88

Candidate Starts for Anaya_28:

(Start: 88 @20897 has 96 MA's), (92, 20906), (132, 20996), (218, 21257), (223, 21278), (272, 21518), (276, 21548), (303, 21644), (316, 21689), (346, 21842), (353, 21887), (356, 21899), (360, 21908), (375, 21959), (406, 22139), (410, 22154), (424, 22223), (448, 22340), (456, 22379), (457, 22385), (458, 22394), (475, 22475), (484, 22523), (485, 22526), (527, 22706), (529, 22715), (534, 22736), (553, 22829), (565, 22925), (576, 22988), (610, 23153), (619, 23228),

Gene: Angelica_27 Start: 20846, Stop: 23278, Start Num: 88

Candidate Starts for Angelica_27:

(Start: 88 @20846 has 96 MA's), (132, 20945), (218, 21206), (223, 21227), (263, 21434), (272, 21467), (276, 21497), (297, 21569), (303, 21593), (346, 21791), (353, 21836), (356, 21848), (360, 21857), (375, 21908), (406, 22088), (410, 22103), (424, 22172), (428, 22184), (440, 22247), (448, 22289), (456, 22328), (457, 22334), (458, 22343), (462, 22364), (475, 22424), (482, 22457), (484, 22472), (485, 22475), (498, 22529), (501, 22541), (527, 22655), (529, 22664), (534, 22685), (548, 22757), (553, 22778), (565, 22874), (610, 23102), (626, 23249),

Gene: Anma_27 Start: 20840, Stop: 23272, Start Num: 88

Candidate Starts for Anma_27:

(81, 20822), (Start: 88 @20840 has 96 MA's), (109, 20888), (132, 20939), (218, 21200), (223, 21221), (271, 21458), (272, 21461), (276, 21491), (277, 21494), (297, 21563), (303, 21587), (304, 21593), (308, 21599), (316, 21632), (346, 21785), (356, 21842), (360, 21851), (375, 21902), (406, 22082), (410, 22097), (424, 22166), (428, 22178), (434, 22214), (440, 22241), (448, 22283), (456, 22322), (457, 22328), (458, 22337), (462, 22358), (475, 22418), (482, 22451), (485, 22469), (501, 22535), (509, 22577), (527, 22649), (529, 22658), (534, 22679), (548, 22751), (565, 22868), (594, 23015), (610, 23096), (619, 23171), (626, 23243),

Gene: Antsirabe_22 Start: 20760, Stop: 23216, Start Num: 39

Candidate Starts for Antsirabe_22:

(Start: 39 @20760 has 9 MA's), (72, 20850), (76, 20865), (77, 20868), (139, 20988), (171, 21063), (219, 21222), (243, 21339), (304, 21561), (320, 21612), (343, 21720), (345, 21729), (350, 21759), (352, 21771), (361, 21795), (367, 21816), (420, 22083), (423, 22098), (425, 22104), (440, 22179), (454, 22251), (456, 22266), (478, 22374), (484, 22413), (516, 22548), (528, 22590), (531, 22605), (534, 22617), (554, 22716), (571, 22854), (603, 23010), (623, 23154), (626, 23196),

Gene: Apocalypse_27 Start: 20849, Stop: 23281, Start Num: 88

Candidate Starts for Apocalypse_27:

(Start: 88 @20849 has 96 MA's), (113, 20906), (132, 20948), (218, 21209), (223, 21230), (263, 21437), (272, 21470), (276, 21500), (297, 21572), (303, 21596), (316, 21641), (346, 21794), (353, 21839),

(356, 21851), (360, 21860), (375, 21911), (406, 22091), (410, 22106), (424, 22175), (428, 22187), (440, 22250), (448, 22292), (456, 22331), (457, 22337), (458, 22346), (462, 22367), (475, 22427), (482, 22460), (484, 22475), (485, 22478), (502, 22550), (509, 22586), (527, 22658), (529, 22667), (534, 22688), (548, 22760), (553, 22781), (565, 22877), (610, 23105), (626, 23252),

Gene: ArcusAngelus_18 Start: 17438, Stop: 19975, Start Num: 43

Candidate Starts for ArcusAngelus_18:

(Start: 43 @17438 has 236 MA's), (52, 17459), (Start: 60 @17480 has 1 MA's), (75, 17519), (109, 17588), (113, 17597), (115, 17600), (124, 17618), (138, 17651), (143, 17666), (194, 17825), (195, 17828), (208, 17858), (212, 17873), (229, 17951), (232, 17972), (233, 17975), (246, 18041), (260, 18116), (261, 18122), (272, 18164), (273, 18170), (274, 18173), (291, 18206), (293, 18212), (301, 18242), (310, 18263), (316, 18293), (319, 18302), (342, 18410), (345, 18422), (346, 18431), (347, 18434), (348, 18443), (349, 18449), (352, 18464), (354, 18467), (362, 18488), (375, 18530), (381, 18563), (405, 18704), (407, 18710), (420, 18764), (421, 18767), (428, 18794), (443, 18854), (445, 18869), (447, 18881), (448, 18884), (459, 18950), (464, 18974), (467, 18995), (469, 19004), (482, 19064), (483, 19067), (491, 19103), (494, 19121), (499, 19133), (501, 19142), (507, 19169), (522, 19238), (525, 19256), (528, 19265), (530, 19277), (536, 19313), (544, 19343), (559, 19424), (565, 19478), (576, 19538), (581, 19580), (601, 19658), (612, 19715), (616, 19739), (622, 19793), (626, 19841), (634, 19883), (636, 19907), (637, 19910),

Gene: Ardmore_18 Start: 17447, Stop: 19984, Start Num: 43

Candidate Starts for Ardmore_18:

(35, 17435), (Start: 43 @17447 has 236 MA's), (52, 17468), (Start: 60 @17489 has 1 MA's), (75, 17528), (109, 17597), (113, 17606), (115, 17609), (124, 17627), (138, 17660), (143, 17675), (160, 17723), (194, 17834), (195, 17837), (208, 17867), (211, 17879), (212, 17882), (229, 17960), (233, 17984), (246, 18050), (255, 18095), (260, 18125), (261, 18131), (263, 18149), (272, 18173), (274, 18182), (291, 18215), (293, 18221), (301, 18251), (315, 18290), (316, 18302), (319, 18311), (323, 18326), (324, 18329), (346, 18440), (347, 18443), (348, 18452), (349, 18458), (352, 18473), (354, 18476), (362, 18497), (372, 18527), (375, 18539), (381, 18572), (399, 18683), (400, 18686), (405, 18713), (407, 18719), (420, 18773), (421, 18776), (445, 18878), (447, 18890), (448, 18893), (459, 18959), (464, 18983), (467, 19004), (469, 19013), (482, 19073), (483, 19076), (491, 19112), (494, 19130), (499, 19142), (501, 19151), (507, 19178), (522, 19247), (525, 19265), (528, 19274), (530, 19286), (536, 19322), (544, 19352), (549, 19373), (559, 19433), (565, 19487), (576, 19547), (581, 19589), (612, 19724), (616, 19748), (622, 19802), (626, 19850), (634, 19892), (636, 19916), (637, 19919),

Gene: Argent26_28 Start: 22274, Stop: 24670, Start Num: 80

Candidate Starts for Argent26_28:

(Start: 80 @22274 has 128 MA's), (157, 22451), (162, 22472), (220, 22619), (247, 22760), (254, 22793), (260, 22826), (268, 22862), (301, 22955), (319, 23015), (324, 23033), (350, 23165), (364, 23210), (393, 23342), (399, 23387), (416, 23447), (442, 23561), (445, 23582), (453, 23621), (456, 23642), (458, 23657), (489, 23807), (491, 23813), (494, 23831), (508, 23885), (525, 23969), (547, 24062), (591, 24308), (626, 24524), (637, 24608), (643, 24641),

Gene: Ariel_36 Start: 27338, Stop: 29845, Start Num: 43

Candidate Starts for Ariel_36:

(Start: 43 @27338 has 236 MA's), (124, 27533), (138, 27569), (143, 27584), (179, 27671), (184, 27686), (212, 27761), (215, 27773), (223, 27800), (243, 27905), (252, 27944), (255, 27953), (260, 27977), (261, 27983), (263, 28001), (270, 28019), (274, 28034), (275, 28043), (279, 28052), (291, 28067), (299, 28094), (301, 28103), (315, 28142), (316, 28154), (319, 28163), (338, 28247), (354, 28328), (364, 28358), (365, 28361), (375, 28391), (380, 28418), (382, 28427), (390, 28478), (391, 28487), (393, 28490), (398, 28526), (401, 28547), (411, 28583), (446, 28736), (456, 28790), (464, 28835), (466, 28853), (467, 28856), (476, 28895), (506, 29042), (508, 29051), (523, 29120), (525,

29135), (559, 29300), (569, 29387), (578, 29435), (591, 29486), (608, 29564), (638, 29786), (640, 29789), (643, 29816),

Gene: Asayake_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Asayake_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Ashwin_60 Start: 36580, Stop: 39090, Start Num: 57

Candidate Starts for Ashwin_60:

(Start: 57 @36580 has 33 MA's), (69, 36613), (93, 36682), (95, 36685), (106, 36709), (115, 36733), (126, 36757), (138, 36790), (200, 36997), (203, 37009), (204, 37012), (237, 37159), (240, 37189), (246, 37213), (255, 37243), (256, 37246), (260, 37273), (263, 37297), (273, 37327), (296, 37384), (315, 37444), (316, 37456), (323, 37480), (324, 37483), (332, 37525), (352, 37621), (354, 37624), (413, 37879), (445, 38023), (456, 38083), (466, 38155), (467, 38158), (488, 38254), (525, 38428), (530, 38449), (552, 38542), (555, 38554), (565, 38644), (579, 38719), (598, 38764), (630, 38965), (635, 39019), (640, 39034),

Gene: Asriel_25 Start: 21152, Stop: 23548, Start Num: 80

Candidate Starts for Asriel_25:

(Start: 80 @21152 has 128 MA's), (157, 21329), (162, 21350), (220, 21497), (247, 21638), (254, 21671), (260, 21704), (268, 21740), (301, 21833), (319, 21893), (324, 21911), (341, 21992), (393, 22220), (399, 22265), (445, 22460), (446, 22466), (448, 22475), (456, 22520), (458, 22535), (491, 22691), (494, 22709), (497, 22718), (509, 22772), (525, 22847), (526, 22850), (564, 23060), (566, 23072), (591, 23186), (626, 23402), (637, 23486), (641, 23510), (643, 23519),

Gene: Atiba_27 Start: 20841, Stop: 23273, Start Num: 88

Candidate Starts for Atiba_27:

(Start: 88 @20841 has 96 MA's), (132, 20940), (218, 21201), (223, 21222), (263, 21429), (272, 21462), (276, 21492), (297, 21564), (303, 21588), (316, 21633), (346, 21786), (353, 21831), (356, 21843), (360, 21852), (375, 21903), (406, 22083), (410, 22098), (424, 22167), (428, 22179), (448, 22284), (456, 22323), (457, 22329), (458, 22338), (475, 22419), (484, 22467), (502, 22542), (509, 22578), (527, 22650), (529, 22659), (534, 22680), (553, 22773), (565, 22869), (594, 23016), (602, 23058), (610, 23097), (619, 23172),

Gene: Aubs_18 Start: 17557, Stop: 20094, Start Num: 43

Candidate Starts for Aubs_18:

(Start: 43 @17557 has 236 MA's), (52, 17578), (Start: 60 @17599 has 1 MA's), (74, 17635), (75, 17638), (109, 17707), (113, 17716), (115, 17719), (124, 17737), (138, 17770), (143, 17785), (160, 17833), (190, 17938), (194, 17944), (195, 17947), (211, 17989), (212, 17992), (233, 18094), (246, 18160), (255, 18205), (260, 18235), (261, 18241), (263, 18259), (272, 18283), (274, 18292), (291, 18325), (293, 18331), (310, 18382), (315, 18400), (316, 18412), (319, 18421), (323, 18436), (325, 18442), (346, 18550), (347, 18553), (348, 18562), (349, 18568), (352, 18583), (354, 18586), (362, 18607), (372, 18637), (375, 18649), (381, 18682), (393, 18748), (399, 18793), (400, 18796), (405, 18823), (407, 18829), (420, 18883), (421, 18886), (428, 18913), (445, 18988), (447, 19000), (448, 19003), (459, 19069), (464, 19093), (469, 19123), (478, 19165), (482, 19183), (483, 19186), (491, 19222), (494, 19240), (501, 19261), (507, 19288), (522, 19357), (525, 19375), (528, 19384), (530, 19396), (536, 19432), (549, 19483), (554, 19501), (559, 19543), (565, 19597), (581, 19699), (601, 19777), (612, 19834), (616, 19858), (622, 19912), (626, 19960), (636, 20026), (637, 20029),

Gene: Avani_24 Start: 17093, Stop: 19642, Start Num: 27

Candidate Starts for Avani_24:

(24, 17084), (Start: 27 @17093 has 7 MA's), (Start: 43 @17153 has 236 MA's), (56, 17186), (58, 17189), (90, 17258), (104, 17288), (179, 17468), (184, 17483), (195, 17519), (197, 17525), (198, 17528), (210, 17546), (212, 17558), (215, 17570), (222, 17594), (223, 17597), (252, 17741), (255, 17750), (260, 17774), (263, 17798), (272, 17822), (273, 17828), (279, 17849), (281, 17852), (293, 17870), (301, 17900), (312, 17930), (316, 17951), (338, 18044), (341, 18059), (342, 18068), (346, 18089), (347, 18092), (357, 18134), (372, 18176), (373, 18179), (375, 18188), (380, 18215), (382, 18224), (388, 18263), (391, 18284), (393, 18287), (398, 18323), (401, 18344), (420, 18422), (421, 18425), (436, 18479), (447, 18539), (462, 18626), (464, 18632), (467, 18653), (476, 18689), (487, 18743), (489, 18752), (506, 18830), (509, 18848), (518, 18884), (519, 18887), (522, 18905), (523, 18908), (525, 18923), (536, 18980), (540, 18992), (559, 19088), (569, 19175), (578, 19223), (580, 19247), (587, 19274), (591, 19283), (600, 19322), (608, 19361), (612, 19385), (615, 19406), (626, 19502), (631, 19523), (638, 19583), (640, 19586), (643, 19613),

Gene: Avocado_22 Start: 20763, Stop: 23240, Start Num: 39

Candidate Starts for Avocado_22:

(Start: 39 @20763 has 9 MA's), (77, 20871), (121, 20961), (162, 21051), (219, 21228), (243, 21345), (263, 21444), (292, 21525), (304, 21567), (314, 21591), (320, 21618), (321, 21621), (324, 21633), (341, 21714), (350, 21765), (384, 21894), (386, 21906), (407, 22032), (420, 22092), (423, 22107), (425, 22113), (438, 22182), (478, 22383), (528, 22614), (554, 22740), (603, 23034), (612, 23085), (623, 23178),

Gene: Awesomesauce_19 Start: 17268, Stop: 19793, Start Num: 43

Candidate Starts for Awesomesauce_19:

(Start: 43 @17268 has 236 MA's), (52, 17289), (Start: 60 @17310 has 1 MA's), (75, 17349), (109, 17418), (113, 17427), (115, 17430), (124, 17448), (138, 17481), (143, 17496), (160, 17544), (194, 17655), (195, 17658), (212, 17703), (229, 17781), (233, 17805), (246, 17871), (255, 17916), (260, 17946), (261, 17952), (263, 17970), (272, 17994), (274, 18003), (291, 18036), (293, 18042), (301, 18072), (315, 18111), (316, 18123), (319, 18132), (323, 18147), (324, 18150), (354, 18297), (372, 18348), (392, 18459), (400, 18510), (404, 18534), (428, 18627), (439, 18672), (442, 18681), (445, 18702), (447, 18714), (448, 18717), (456, 18762), (464, 18807), (466, 18825), (467, 18828), (478, 18879), (489, 18930), (491, 18936), (494, 18954), (499, 18966), (501, 18975), (508, 19008), (525, 19089), (540, 19158), (547, 19185), (553, 19212), (560, 19263), (565, 19311), (615, 19554), (626, 19659), (631, 19680), (639, 19734), (642, 19758),

Gene: Azrael100_42 Start: 28340, Stop: 30907, Start Num: 42

Candidate Starts for Azrael100_42:

(Start: 42 @28340 has 6 MA's), (69, 28409), (119, 28532), (123, 28538), (124, 28541), (136, 28565), (142, 28586), (190, 28742), (193, 28748), (195, 28754), (204, 28784), (206, 28790), (212, 28811), (214, 28820), (226, 28880), (242, 28958), (261, 29057), (269, 29090), (273, 29105), (274, 29108), (293, 29147), (310, 29198), (315, 29216), (319, 29237), (321, 29243), (328, 29270), (332, 29297), (346, 29366), (351, 29390), (357, 29411), (364, 29432), (368, 29441), (375, 29462), (381, 29495), (382, 29498), (390, 29549), (403, 29627), (408, 29645), (417, 29684), (445, 29801), (454, 29846), (463, 29903), (467, 29927), (469, 29936), (472, 29954), (482, 29999), (489, 30032), (496, 30068), (535, 30242), (536, 30260), (538, 30266), (553, 30323), (611, 30647), (613, 30665), (620, 30716), (627, 30779), (636, 30854),

Gene: BAKA_36 Start: 29892, Stop: 32447, Start Num: 43

Candidate Starts for BAKA_36:

(Start: 43 @29892 has 236 MA's), (124, 30087), (138, 30123), (143, 30138), (160, 30186), (194, 30297), (195, 30300), (208, 30330), (212, 30345), (229, 30423), (233, 30447), (246, 30513), (255,

30558), (260, 30588), (261, 30594), (263, 30612), (272, 30636), (274, 30645), (291, 30678), (293, 30684), (301, 30714), (315, 30753), (316, 30765), (319, 30774), (323, 30789), (324, 30792), (346, 30903), (347, 30906), (348, 30915), (349, 30921), (352, 30936), (354, 30939), (362, 30960), (372, 30990), (375, 31002), (381, 31035), (393, 31101), (399, 31146), (400, 31149), (405, 31176), (407, 31182), (420, 31236), (421, 31239), (443, 31326), (445, 31341), (447, 31353), (448, 31356), (459, 31422), (467, 31467), (469, 31476), (482, 31536), (483, 31539), (491, 31575), (494, 31593), (499, 31605), (501, 31614), (507, 31641), (522, 31710), (525, 31728), (528, 31737), (530, 31749), (536, 31785), (544, 31815), (549, 31836), (556, 31860), (559, 31896), (565, 31950), (576, 32010), (581, 32052), (612, 32187), (616, 32211), (622, 32265), (626, 32313), (634, 32355), (636, 32379), (637, 32382),

Gene: BEEST_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for BEEST_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: BGlluviae_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for BGlluviae_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: BaboJay_25 Start: 21834, Stop: 24230, Start Num: 80

Candidate Starts for BaboJay_25:

(Start: 80 @21834 has 128 MA's), (157, 22011), (162, 22032), (220, 22179), (247, 22320), (254, 22353), (260, 22386), (268, 22422), (301, 22515), (319, 22575), (324, 22593), (350, 22725), (364, 22770), (393, 22902), (399, 22947), (442, 23121), (445, 23142), (453, 23181), (456, 23202), (458, 23217), (489, 23367), (491, 23373), (494, 23391), (508, 23445), (525, 23529), (547, 23622), (591, 23868), (626, 24084), (637, 24168), (643, 24201),

Gene: BadStone_25 Start: 22283, Stop: 24679, Start Num: 80

Candidate Starts for BadStone_25:

(Start: 80 @22283 has 128 MA's), (157, 22460), (162, 22481), (220, 22628), (247, 22769), (254, 22802), (260, 22835), (268, 22871), (301, 22964), (319, 23024), (341, 23123), (393, 23351), (399, 23396), (445, 23591), (446, 23597), (448, 23606), (456, 23651), (458, 23666), (491, 23822), (494, 23840), (497, 23849), (509, 23903), (525, 23978), (526, 23981), (564, 24191), (566, 24203), (591, 24317), (626, 24533), (637, 24617), (641, 24641), (643, 24650),

Gene: BaghaKamala_27 Start: 20841, Stop: 23273, Start Num: 88

Candidate Starts for BaghaKamala_27:

(Start: 88 @20841 has 96 MA's), (132, 20940), (218, 21201), (223, 21222), (263, 21429), (272, 21462), (276, 21492), (297, 21564), (303, 21588), (346, 21786), (353, 21831), (356, 21843), (360, 21852), (375, 21903), (406, 22083), (410, 22098), (424, 22167), (428, 22179), (440, 22242), (448, 22284), (456, 22323), (457, 22329), (458, 22338), (462, 22359), (475, 22419), (501, 22536), (509, 22578), (527, 22650), (529, 22659), (534, 22680), (548, 22752), (553, 22773), (565, 22869), (594, 23016), (610, 23097), (626, 23244),

Gene: Balomoji_25 Start: 22017, Stop: 24413, Start Num: 80

Candidate Starts for Balomoji_25:

(Start: 80 @22017 has 128 MA's), (157, 22194), (162, 22215), (220, 22362), (247, 22503), (254, 22536), (260, 22569), (268, 22605), (301, 22698), (319, 22758), (324, 22776), (341, 22857), (393, 23085), (399, 23130), (445, 23325), (446, 23331), (448, 23340), (456, 23385), (458, 23400), (491, 23556), (494, 23574), (497, 23583), (509, 23637), (525, 23712), (526, 23715), (564, 23925), (566, 23937), (591, 24051), (626, 24267), (637, 24351), (641, 24375), (643, 24384),

Gene: Barbarian_25 Start: 21152, Stop: 23548, Start Num: 80

Candidate Starts for Barbarian_25:

(Start: 80 @21152 has 128 MA's), (157, 21329), (162, 21350), (220, 21497), (247, 21638), (254, 21671), (260, 21704), (268, 21740), (301, 21833), (319, 21893), (324, 21911), (341, 21992), (393, 22220), (399, 22265), (445, 22460), (446, 22466), (448, 22475), (456, 22520), (458, 22535), (491, 22691), (494, 22709), (497, 22718), (509, 22772), (525, 22847), (526, 22850), (564, 23060), (566, 23072), (591, 23186), (626, 23402), (637, 23486), (641, 23510), (643, 23519),

Gene: Barnyard_36 Start: 26772, Stop: 29858, Start Num: 2

Candidate Starts for Barnyard_36:

(1, 26745), (Start: 2 @26772 has 2 MA's), (3, 26775), (4, 26895), (5, 26907), (6, 26925), (7, 26928), (8, 26982), (9, 26991), (11, 27012), (14, 27084), (16, 27120), (Start: 17 @27195 has 1 MA's), (30, 27273), (32, 27282), (33, 27288), (37, 27315), (77, 27432), (98, 27483), (99, 27486), (111, 27516), (124, 27540), (130, 27558), (177, 27690), (180, 27702), (202, 27783), (236, 27933), (252, 28017), (261, 28053), (273, 28107), (274, 28110), (278, 28128), (288, 28146), (298, 28182), (321, 28263), (334, 28323), (338, 28341), (345, 28377), (352, 28419), (357, 28431), (366, 28461), (372, 28473), (374, 28482), (388, 28557), (402, 28644), (425, 28752), (434, 28797), (438, 28818), (448, 28866), (455, 28905), (457, 28917), (460, 28941), (461, 28947), (467, 28977), (478, 29019), (480, 29037), (484, 29058), (490, 29079), (493, 29100), (499, 29118), (501, 29127), (510, 29181), (515, 29190), (528, 29232), (547, 29325), (555, 29358), (568, 29478), (574, 29505), (591, 29598), (603, 29652), (623, 29796),

Gene: BarrelRoll_27 Start: 20864, Stop: 23296, Start Num: 88

Candidate Starts for BarrelRoll_27:

(Start: 88 @20864 has 96 MA's), (132, 20963), (218, 21224), (223, 21245), (263, 21452), (272, 21485), (276, 21515), (297, 21587), (303, 21611), (346, 21809), (353, 21854), (356, 21866), (360, 21875), (375, 21926), (406, 22106), (410, 22121), (424, 22190), (428, 22202), (440, 22265), (448, 22307), (456, 22346), (457, 22352), (458, 22361), (462, 22382), (475, 22442), (501, 22559), (509, 22601), (527, 22673), (529, 22682), (534, 22703), (548, 22775), (553, 22796), (565, 22892), (594, 23039), (610, 23120), (626, 23267),

Gene: Bask21_26 Start: 21463, Stop: 23859, Start Num: 80

Candidate Starts for Bask21_26:

(Start: 80 @21463 has 128 MA's), (157, 21640), (162, 21661), (220, 21808), (247, 21949), (254, 21982), (260, 22015), (268, 22051), (301, 22144), (319, 22204), (324, 22222), (341, 22303), (393, 22531), (399, 22576), (445, 22771), (446, 22777), (448, 22786), (456, 22831), (458, 22846), (491, 23002), (494, 23020), (497, 23029), (525, 23158), (526, 23161), (564, 23371), (566, 23383), (591, 23497), (626, 23713), (637, 23797), (641, 23821), (643, 23830),

Gene: Batiatus_18 Start: 17448, Stop: 19985, Start Num: 43

Candidate Starts for Batiatus_18:

(35, 17436), (Start: 43 @17448 has 236 MA's), (52, 17469), (Start: 60 @17490 has 1 MA's), (75, 17529), (109, 17598), (113, 17607), (115, 17610), (124, 17628), (138, 17661), (143, 17676), (160, 17724), (194, 17835), (195, 17838), (208, 17868), (211, 17880), (212, 17883), (229, 17961), (233,

17985), (246, 18051), (255, 18096), (260, 18126), (261, 18132), (263, 18150), (272, 18174), (274, 18183), (291, 18216), (293, 18222), (301, 18252), (315, 18291), (316, 18303), (319, 18312), (323, 18327), (324, 18330), (346, 18441), (347, 18444), (348, 18453), (349, 18459), (352, 18474), (354, 18477), (362, 18498), (372, 18528), (375, 18540), (381, 18573), (399, 18684), (400, 18687), (405, 18714), (407, 18720), (420, 18774), (421, 18777), (443, 18864), (445, 18879), (447, 18891), (448, 18894), (459, 18960), (464, 18984), (467, 19005), (469, 19014), (482, 19074), (483, 19077), (491, 19113), (494, 19131), (499, 19143), (501, 19152), (507, 19179), (522, 19248), (525, 19266), (528, 19275), (530, 19287), (536, 19323), (544, 19353), (549, 19374), (556, 19398), (559, 19434), (565, 19488), (576, 19548), (581, 19590), (601, 19668), (612, 19725), (616, 19749), (622, 19803), (626, 19851), (634, 19893), (636, 19917), (637, 19920),

Gene: Beakin_19 Start: 17255, Stop: 19786, Start Num: 43

Candidate Starts for Beakin_19:

(35, 17243), (Start: 43 @17255 has 236 MA's), (52, 17276), (Start: 60 @17297 has 1 MA's), (75, 17336), (109, 17405), (113, 17414), (115, 17417), (124, 17435), (138, 17468), (143, 17483), (160, 17525), (194, 17636), (195, 17639), (208, 17669), (212, 17684), (229, 17762), (233, 17786), (246, 17852), (255, 17897), (260, 17927), (261, 17933), (263, 17951), (272, 17975), (274, 17984), (291, 18017), (293, 18023), (301, 18053), (315, 18092), (316, 18104), (319, 18113), (323, 18128), (324, 18131), (346, 18242), (347, 18245), (348, 18254), (349, 18260), (352, 18275), (354, 18278), (362, 18299), (372, 18329), (375, 18341), (381, 18374), (393, 18440), (399, 18485), (400, 18488), (405, 18515), (407, 18521), (420, 18575), (421, 18578), (443, 18665), (445, 18680), (447, 18692), (448, 18695), (459, 18761), (464, 18785), (467, 18806), (469, 18815), (482, 18875), (483, 18878), (491, 18914), (494, 18932), (501, 18953), (507, 18980), (522, 19049), (525, 19067), (528, 19076), (530, 19088), (536, 19124), (549, 19175), (554, 19193), (559, 19235), (565, 19289), (581, 19391), (601, 19469), (612, 19526), (616, 19550), (622, 19604), (626, 19652), (636, 19718), (637, 19721),

Gene: Beanstalk_20 Start: 17400, Stop: 19937, Start Num: 43

Candidate Starts for Beanstalk_20:

(Start: 43 @17400 has 236 MA's), (52, 17421), (Start: 60 @17442 has 1 MA's), (75, 17481), (109, 17550), (113, 17559), (115, 17562), (124, 17580), (138, 17613), (143, 17628), (190, 17781), (195, 17790), (212, 17835), (232, 17934), (233, 17937), (246, 18003), (260, 18078), (261, 18084), (263, 18102), (272, 18126), (274, 18135), (291, 18168), (293, 18174), (301, 18204), (315, 18243), (316, 18255), (319, 18264), (323, 18279), (324, 18282), (346, 18393), (347, 18396), (348, 18405), (349, 18411), (352, 18426), (354, 18429), (362, 18450), (372, 18480), (375, 18492), (381, 18525), (399, 18636), (400, 18639), (405, 18666), (407, 18672), (420, 18726), (421, 18729), (443, 18816), (445, 18831), (447, 18843), (448, 18846), (459, 18912), (464, 18936), (467, 18957), (469, 18966), (482, 19026), (483, 19029), (494, 19083), (499, 19095), (501, 19104), (507, 19131), (521, 19188), (522, 19200), (525, 19218), (528, 19227), (530, 19239), (536, 19275), (544, 19305), (549, 19326), (556, 19350), (559, 19386), (565, 19440), (576, 19500), (581, 19542), (612, 19677), (616, 19701), (622, 19755), (626, 19803), (634, 19845), (636, 19869), (637, 19872),

Gene: Beckerton_29 Start: 26219, Stop: 29062, Start Num: 15

Candidate Starts for Beckerton_29:

(Start: 15 @26219 has 8 MA's), (19, 26351), (21, 26363), (23, 26372), (38, 26441), (41, 26447), (65, 26507), (71, 26528), (89, 26576), (107, 26618), (118, 26642), (129, 26675), (145, 26711), (152, 26723), (178, 26816), (195, 26873), (207, 26912), (235, 27038), (247, 27107), (253, 27137), (261, 27179), (274, 27230), (310, 27320), (315, 27338), (332, 27419), (341, 27458), (345, 27479), (381, 27617), (387, 27656), (398, 27719), (421, 27821), (466, 28046), (545, 28409), (552, 28436), (593, 28679), (599, 28712), (605, 28736), (621, 28856), (632, 28934), (643, 29021), (645, 29036), (646, 29042),

Gene: Becksu_26 Start: 22467, Stop: 24863, Start Num: 80

Candidate Starts for Becksu_26:

(Start: 80 @22467 has 128 MA's), (157, 22644), (162, 22665), (220, 22812), (247, 22953), (254, 22986), (260, 23019), (268, 23055), (301, 23148), (319, 23208), (324, 23226), (350, 23358), (364, 23403), (393, 23535), (399, 23580), (416, 23640), (442, 23754), (445, 23775), (453, 23814), (456, 23835), (458, 23850), (489, 24000), (491, 24006), (494, 24024), (508, 24078), (525, 24162), (547, 24255), (591, 24501), (626, 24717), (637, 24801), (643, 24834),

Gene: Beezoo_27 Start: 20888, Stop: 23320, Start Num: 88

Candidate Starts for Beezoo_27:

(Start: 88 @20888 has 96 MA's), (132, 20987), (218, 21248), (223, 21269), (263, 21476), (272, 21509), (276, 21539), (287, 21578), (297, 21611), (303, 21635), (316, 21680), (346, 21833), (353, 21878), (356, 21890), (360, 21899), (375, 21950), (406, 22130), (410, 22145), (424, 22214), (428, 22226), (440, 22289), (448, 22331), (456, 22370), (457, 22376), (458, 22385), (462, 22406), (475, 22466), (501, 22583), (527, 22697), (529, 22706), (534, 22727), (548, 22799), (553, 22820), (565, 22916), (610, 23144), (626, 23291),

Gene: Bella96_27 Start: 20822, Stop: 23254, Start Num: 88

Candidate Starts for Bella96_27:

(81, 20804), (Start: 88 @20822 has 96 MA's), (109, 20870), (132, 20921), (218, 21182), (223, 21203), (272, 21443), (276, 21473), (277, 21476), (303, 21569), (308, 21581), (316, 21614), (346, 21767), (356, 21824), (360, 21833), (375, 21884), (406, 22064), (410, 22079), (424, 22148), (428, 22160), (434, 22196), (440, 22223), (448, 22265), (456, 22304), (457, 22310), (458, 22319), (462, 22340), (475, 22400), (482, 22433), (484, 22448), (501, 22517), (509, 22559), (527, 22631), (529, 22640), (534, 22661), (548, 22733), (565, 22850), (594, 22997), (610, 23078), (619, 23153), (626, 23225),

Gene: Belladonna_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Belladonna_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Bench_28 Start: 22144, Stop: 24540, Start Num: 80

Candidate Starts for Bench_28:

(Start: 80 @22144 has 128 MA's), (157, 22321), (162, 22342), (220, 22489), (254, 22663), (260, 22696), (268, 22732), (301, 22825), (319, 22885), (324, 22903), (350, 23035), (364, 23080), (393, 23212), (399, 23257), (416, 23317), (442, 23431), (445, 23452), (453, 23491), (456, 23512), (458, 23527), (489, 23677), (491, 23683), (494, 23701), (508, 23755), (525, 23839), (547, 23932), (591, 24178), (626, 24394), (637, 24478), (643, 24511),

Gene: Bern_27 Start: 20832, Stop: 23264, Start Num: 88

Candidate Starts for Bern_27:

(Start: 88 @20832 has 96 MA's), (110, 20883), (115, 20892), (132, 20931), (218, 21192), (223, 21213), (271, 21450), (272, 21453), (276, 21483), (277, 21486), (280, 21498), (297, 21555), (303, 21579), (304, 21585), (316, 21624), (346, 21777), (353, 21822), (356, 21834), (360, 21843), (371, 21879), (375, 21894), (406, 22074), (410, 22089), (424, 22158), (440, 22233), (448, 22275), (456, 22314), (457, 22320), (458, 22329), (462, 22350), (464, 22356), (475, 22410), (482, 22443), (484, 22458), (501, 22527), (502, 22533), (509, 22569), (529, 22650), (541, 22707), (548, 22743), (553, 22764), (565, 22860), (584, 22971), (610, 23088), (619, 23163), (626, 23235),

Gene: BigBubba_27 Start: 22047, Stop: 24443, Start Num: 80

Candidate Starts for BigBubba_27:

(Start: 80 @22047 has 128 MA's), (157, 22224), (162, 22245), (220, 22392), (247, 22533), (254, 22566), (260, 22599), (268, 22635), (301, 22728), (319, 22788), (324, 22806), (350, 22938), (364, 22983), (393, 23115), (399, 23160), (442, 23334), (445, 23355), (453, 23394), (456, 23415), (458, 23430), (491, 23586), (494, 23604), (508, 23658), (525, 23742), (547, 23835), (591, 24081), (626, 24297), (637, 24381), (643, 24414),

Gene: BilboSwaggins_26 Start: 22284, Stop: 24680, Start Num: 80

Candidate Starts for BilboSwaggins_26:

(Start: 80 @22284 has 128 MA's), (157, 22461), (162, 22482), (220, 22629), (247, 22770), (254, 22803), (260, 22836), (268, 22872), (301, 22965), (319, 23025), (324, 23043), (341, 23124), (393, 23352), (399, 23397), (445, 23592), (446, 23598), (448, 23607), (456, 23652), (458, 23667), (491, 23823), (494, 23841), (497, 23850), (525, 23979), (526, 23982), (564, 24192), (566, 24204), (591, 24318), (626, 24534), (637, 24618), (641, 24642), (643, 24651),

Gene: Bipolar_18 Start: 17398, Stop: 19890, Start Num: 43

Candidate Starts for Bipolar_18:

(36, 17386), (Start: 43 @17398 has 236 MA's), (52, 17419), (Start: 60 @17440 has 1 MA's), (77, 17479), (109, 17548), (113, 17557), (115, 17560), (124, 17578), (138, 17611), (153, 17644), (160, 17677), (184, 17731), (195, 17767), (198, 17776), (210, 17794), (215, 17818), (222, 17842), (243, 17950), (247, 17974), (252, 17989), (255, 17998), (260, 18022), (261, 18028), (263, 18046), (268, 18058), (270, 18064), (272, 18070), (273, 18076), (274, 18079), (275, 18088), (279, 18097), (291, 18112), (301, 18148), (315, 18187), (316, 18199), (319, 18208), (338, 18292), (354, 18373), (364, 18403), (365, 18406), (375, 18436), (380, 18463), (382, 18472), (390, 18523), (391, 18532), (393, 18535), (398, 18571), (401, 18592), (411, 18628), (446, 18781), (456, 18835), (464, 18880), (466, 18898), (467, 18901), (476, 18940), (506, 19087), (508, 19096), (523, 19165), (525, 19180), (559, 19345), (569, 19432), (578, 19480), (591, 19531), (608, 19609), (638, 19831), (640, 19834), (643, 19861),

Gene: BirdsNest_33 Start: 28321, Stop: 30801, Start Num: 47

Candidate Starts for BirdsNest_33:

(Start: 47 @28321 has 6 MA's), (85, 28435), (100, 28468), (249, 28945), (264, 29011), (266, 29023), (273, 29041), (292, 29107), (304, 29149), (330, 29242), (334, 29263), (384, 29476), (413, 29632), (419, 29665), (425, 29692), (436, 29746), (463, 29896), (467, 29920), (478, 29962), (531, 30193), (552, 30292), (611, 30634), (623, 30739), (627, 30784),

Gene: Blarby_25 Start: 17613, Stop: 20210, Start Num: 29

Candidate Starts for Blarby_25:

(25, 17604), (29, 17613), (Start: 45 @17673 has 1 MA's), (56, 17706), (59, 17709), (103, 17808), (160, 17949), (194, 18060), (195, 18063), (208, 18093), (211, 18105), (212, 18108), (233, 18210), (246, 18276), (255, 18321), (260, 18351), (261, 18357), (263, 18375), (272, 18399), (274, 18408), (291, 18441), (293, 18447), (301, 18477), (315, 18516), (316, 18528), (319, 18537), (323, 18552), (324, 18555), (346, 18666), (347, 18669), (348, 18678), (349, 18684), (352, 18699), (354, 18702), (362, 18723), (372, 18753), (375, 18765), (381, 18798), (399, 18909), (400, 18912), (405, 18939), (407, 18945), (420, 18999), (421, 19002), (443, 19089), (445, 19104), (447, 19116), (448, 19119), (459, 19185), (467, 19230), (469, 19239), (482, 19299), (483, 19302), (491, 19338), (494, 19356), (501, 19377), (507, 19404), (522, 19473), (525, 19491), (528, 19500), (530, 19512), (536, 19548), (544, 19578), (549, 19599), (554, 19617), (559, 19659), (565, 19713), (581, 19815), (612, 19950), (616, 19974), (622, 20028), (626, 20076), (634, 20118), (636, 20142), (637, 20145),

Gene: Blessica_59 Start: 36409, Stop: 38919, Start Num: 57

Candidate Starts for Blessica_59:

(Start: 57 @36409 has 33 MA's), (69, 36442), (93, 36511), (95, 36514), (106, 36538), (115, 36562), (126, 36586), (138, 36619), (200, 36826), (203, 36838), (204, 36841), (237, 36988), (240, 37018),

(246, 37042), (255, 37072), (256, 37075), (260, 37102), (263, 37126), (273, 37156), (296, 37213), (302, 37237), (315, 37273), (316, 37285), (323, 37309), (324, 37312), (332, 37354), (352, 37450), (354, 37453), (413, 37708), (445, 37852), (456, 37912), (466, 37984), (467, 37987), (488, 38083), (525, 38257), (530, 38278), (552, 38371), (555, 38383), (565, 38473), (579, 38548), (598, 38593), (630, 38794), (635, 38848), (640, 38863),

Gene: Blexus_18 Start: 17586, Stop: 20123, Start Num: 43

Candidate Starts for Blexus_18:

(Start: 43 @17586 has 236 MA's), (52, 17607), (Start: 60 @17628 has 1 MA's), (75, 17667), (109, 17736), (113, 17745), (115, 17748), (124, 17766), (143, 17814), (160, 17862), (194, 17973), (195, 17976), (212, 18021), (229, 18099), (233, 18123), (246, 18189), (260, 18264), (261, 18270), (263, 18288), (272, 18312), (274, 18321), (291, 18354), (293, 18360), (301, 18390), (310, 18411), (316, 18441), (319, 18450), (342, 18558), (345, 18570), (346, 18579), (347, 18582), (349, 18597), (352, 18612), (354, 18615), (362, 18636), (375, 18678), (381, 18711), (399, 18822), (400, 18825), (405, 18852), (407, 18858), (420, 18912), (421, 18915), (428, 18942), (445, 19017), (447, 19029), (448, 19032), (459, 19098), (463, 19119), (464, 19122), (467, 19143), (469, 19152), (478, 19194), (482, 19212), (483, 19215), (489, 19245), (494, 19269), (499, 19281), (501, 19290), (522, 19386), (525, 19404), (528, 19413), (530, 19425), (536, 19461), (544, 19491), (547, 19500), (549, 19512), (559, 19572), (565, 19626), (576, 19686), (581, 19728), (612, 19863), (616, 19887), (622, 19941), (626, 19989), (634, 20031), (636, 20055), (637, 20058),

Gene: Blizzard_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Blizzard_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: BlueCrab_18 Start: 17568, Stop: 20105, Start Num: 43

Candidate Starts for BlueCrab_18:

(35, 17556), (Start: 43 @17568 has 236 MA's), (52, 17589), (Start: 60 @17610 has 1 MA's), (75, 17649), (109, 17718), (113, 17727), (115, 17730), (124, 17748), (143, 17796), (160, 17844), (194, 17955), (195, 17958), (212, 18003), (229, 18081), (233, 18105), (246, 18171), (255, 18216), (260, 18246), (261, 18252), (263, 18270), (272, 18294), (274, 18303), (291, 18336), (293, 18342), (301, 18372), (315, 18411), (316, 18423), (319, 18432), (323, 18447), (324, 18450), (346, 18561), (347, 18564), (348, 18573), (349, 18579), (352, 18594), (354, 18597), (362, 18618), (372, 18648), (375, 18660), (381, 18693), (399, 18804), (400, 18807), (405, 18834), (407, 18840), (420, 18894), (421, 18897), (445, 18999), (447, 19011), (448, 19014), (459, 19080), (464, 19104), (467, 19125), (469, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (501, 19272), (507, 19299), (522, 19368), (525, 19386), (528, 19395), (530, 19407), (536, 19443), (549, 19494), (554, 19512), (559, 19554), (565, 19608), (581, 19710), (612, 19845), (616, 19869), (622, 19923), (631, 19992), (636, 20037), (637, 20040),

Gene: BobaPhett_18 Start: 17397, Stop: 19922, Start Num: 43

Candidate Starts for BobaPhett_18:

(Start: 43 @17397 has 236 MA's), (52, 17418), (Start: 60 @17439 has 1 MA's), (75, 17478), (109, 17547), (113, 17556), (115, 17559), (124, 17577), (143, 17625), (160, 17673), (194, 17784), (195, 17787), (210, 17820), (212, 17832), (229, 17910), (240, 17976), (247, 18009), (258, 18063), (260, 18075), (273, 18129), (274, 18132), (275, 18141), (294, 18174), (308, 18213), (310, 18216), (314, 18231), (315, 18234), (321, 18261), (322, 18267), (323, 18270), (324, 18273), (330, 18300), (333, 18318), (334, 18321), (348, 18396), (352, 18417), (354, 18420), (363, 18447), (372, 18471), (381,

18516), (382, 18519), (390, 18570), (400, 18633), (401, 18642), (407, 18666), (434, 18771), (435, 18774), (445, 18825), (446, 18831), (447, 18837), (448, 18840), (456, 18885), (458, 18900), (463, 18927), (467, 18951), (478, 19002), (482, 19020), (483, 19023), (484, 19035), (499, 19089), (525, 19212), (538, 19275), (554, 19338), (561, 19413), (603, 19614), (633, 19824), (639, 19863), (640, 19866),

Gene: Bobi_20 Start: 17987, Stop: 20524, Start Num: 43

Candidate Starts for Bobi_20:

(35, 17975), (Start: 43 @17987 has 236 MA's), (52, 18008), (Start: 60 @18029 has 1 MA's), (75, 18068), (109, 18137), (113, 18146), (115, 18149), (124, 18167), (138, 18200), (143, 18215), (160, 18263), (194, 18374), (195, 18377), (208, 18407), (211, 18419), (212, 18422), (229, 18500), (233, 18524), (246, 18590), (255, 18635), (260, 18665), (261, 18671), (263, 18689), (272, 18713), (274, 18722), (291, 18755), (293, 18761), (301, 18791), (315, 18830), (316, 18842), (319, 18851), (323, 18866), (324, 18869), (346, 18980), (347, 18983), (348, 18992), (349, 18998), (352, 19013), (354, 19016), (372, 19067), (375, 19079), (381, 19112), (393, 19178), (399, 19223), (400, 19226), (405, 19253), (407, 19259), (420, 19313), (421, 19316), (443, 19403), (445, 19418), (447, 19430), (448, 19433), (459, 19499), (467, 19544), (469, 19553), (482, 19613), (483, 19616), (491, 19652), (494, 19670), (499, 19682), (501, 19691), (507, 19718), (522, 19787), (525, 19805), (528, 19814), (530, 19826), (536, 19862), (544, 19892), (549, 19913), (556, 19937), (559, 19973), (565, 20027), (576, 20087), (581, 20129), (612, 20264), (616, 20288), (622, 20342), (626, 20390), (634, 20432), (636, 20456), (637, 20459),

Gene: BobtimousPrime_28 Start: 26139, Stop: 28982, Start Num: 15

Candidate Starts for BobtimousPrime_28:

(Start: 15 @26139 has 8 MA's), (19, 26271), (21, 26283), (23, 26292), (38, 26361), (65, 26427), (71, 26448), (89, 26496), (107, 26538), (118, 26562), (129, 26595), (145, 26631), (152, 26643), (178, 26736), (195, 26793), (207, 26832), (247, 27027), (253, 27057), (261, 27099), (310, 27240), (315, 27258), (332, 27339), (341, 27378), (345, 27399), (381, 27537), (387, 27576), (421, 27741), (439, 27813), (447, 27855), (450, 27867), (466, 27966), (545, 28329), (593, 28599), (599, 28632), (605, 28656), (621, 28776), (632, 28854), (643, 28941), (645, 28956), (646, 28962),

Gene: BodEinwohner17_18 Start: 17569, Stop: 20106, Start Num: 43

Candidate Starts for BodEinwohner17_18:

(Start: 43 @17569 has 236 MA's), (52, 17590), (Start: 60 @17611 has 1 MA's), (75, 17650), (109, 17719), (113, 17728), (115, 17731), (124, 17749), (143, 17797), (190, 17950), (195, 17959), (212, 18004), (232, 18103), (233, 18106), (246, 18172), (260, 18247), (261, 18253), (263, 18271), (272, 18295), (274, 18304), (291, 18337), (293, 18343), (301, 18373), (310, 18394), (316, 18424), (319, 18433), (323, 18448), (324, 18451), (342, 18541), (345, 18553), (346, 18562), (347, 18565), (349, 18580), (352, 18595), (354, 18598), (362, 18619), (375, 18661), (381, 18694), (399, 18805), (400, 18808), (405, 18835), (407, 18841), (420, 18895), (421, 18898), (428, 18925), (445, 19000), (447, 19012), (448, 19015), (459, 19081), (463, 19102), (464, 19105), (467, 19126), (469, 19135), (478, 19177), (482, 19195), (483, 19198), (489, 19228), (494, 19252), (499, 19264), (501, 19273), (522, 19369), (525, 19387), (528, 19396), (530, 19408), (536, 19444), (544, 19474), (547, 19483), (549, 19495), (559, 19555), (565, 19609), (576, 19669), (581, 19711), (612, 19846), (616, 19870), (622, 19924), (626, 19972), (634, 20014), (636, 20038), (637, 20041),

Gene: Bogg_26 Start: 21184, Stop: 23580, Start Num: 80

Candidate Starts for Bogg_26:

(Start: 80 @21184 has 128 MA's), (157, 21361), (162, 21382), (220, 21529), (247, 21670), (254, 21703), (260, 21736), (268, 21772), (301, 21865), (319, 21925), (324, 21943), (350, 22075), (364, 22120), (393, 22252), (399, 22297), (416, 22357), (442, 22471), (445, 22492), (453, 22531), (456, 22552), (458, 22567), (489, 22717), (491, 22723), (494, 22741), (508, 22795), (525, 22879), (547, 22972), (591, 23218), (626, 23434), (637, 23518), (643, 23551),

Gene: Bogie_20 Start: 18761, Stop: 21265, Start Num: 57

Candidate Starts for Bogie_20:

(Start: 57 @18761 has 33 MA's), (115, 18914), (232, 19319), (237, 19334), (240, 19364), (242, 19370), (246, 19388), (272, 19496), (293, 19547), (324, 19658), (325, 19661), (332, 19700), (341, 19733), (354, 19799), (375, 19859), (380, 19886), (381, 19892), (445, 20198), (456, 20258), (462, 20306), (463, 20309), (466, 20330), (467, 20333), (525, 20594), (554, 20717), (555, 20720), (565, 20810), (576, 20867), (579, 20888), (603, 20948), (632, 21149), (635, 21191),

Gene: Boiii_27 Start: 20914, Stop: 23346, Start Num: 88

Candidate Starts for Boiii_27:

(Start: 88 @20914 has 96 MA's), (132, 21013), (218, 21274), (223, 21295), (263, 21502), (272, 21535), (276, 21565), (297, 21637), (303, 21661), (346, 21859), (353, 21904), (356, 21916), (360, 21925), (375, 21976), (406, 22156), (410, 22171), (424, 22240), (428, 22252), (440, 22315), (448, 22357), (456, 22396), (457, 22402), (458, 22411), (462, 22432), (475, 22492), (501, 22609), (509, 22651), (527, 22723), (529, 22732), (534, 22753), (548, 22825), (553, 22846), (565, 22942), (594, 23089), (610, 23170), (626, 23317),

Gene: Boilgate_24 Start: 21197, Stop: 23551, Start Num: 86

Candidate Starts for Boilgate_24:

(Start: 86 @21197 has 1 MA's), (134, 21308), (147, 21338), (182, 21431), (185, 21440), (198, 21482), (202, 21494), (205, 21506), (208, 21518), (227, 21605), (250, 21728), (252, 21734), (291, 21866), (315, 21938), (316, 21950), (318, 21956), (330, 22004), (346, 22088), (359, 22142), (366, 22172), (370, 22181), (372, 22184), (377, 22214), (413, 22391), (431, 22469), (436, 22502), (447, 22562), (448, 22565), (456, 22610), (457, 22616), (458, 22625), (464, 22655), (469, 22685), (471, 22697), (484, 22754), (490, 22775), (503, 22832), (504, 22835), (522, 22910), (528, 22937), (530, 22949), (532, 22955), (534, 22964), (551, 23048), (563, 23144), (565, 23153), (572, 23192), (586, 23276), (602, 23336), (608, 23363), (627, 23522),

Gene: Boomer_19 Start: 17212, Stop: 19749, Start Num: 43

Candidate Starts for Boomer_19:

(Start: 43 @17212 has 236 MA's), (52, 17233), (Start: 60 @17254 has 1 MA's), (75, 17293), (109, 17362), (113, 17371), (115, 17374), (124, 17392), (138, 17425), (143, 17440), (160, 17488), (194, 17599), (195, 17602), (208, 17632), (212, 17647), (229, 17725), (233, 17749), (246, 17815), (255, 17860), (260, 17890), (261, 17896), (263, 17914), (272, 17938), (274, 17947), (291, 17980), (293, 17986), (301, 18016), (310, 18037), (315, 18055), (316, 18067), (319, 18076), (323, 18091), (324, 18094), (340, 18172), (346, 18205), (347, 18208), (348, 18217), (349, 18223), (352, 18238), (354, 18241), (362, 18262), (372, 18292), (375, 18304), (381, 18337), (399, 18448), (400, 18451), (405, 18478), (407, 18484), (420, 18538), (421, 18541), (443, 18628), (445, 18643), (447, 18655), (448, 18658), (459, 18724), (464, 18748), (467, 18769), (469, 18778), (482, 18838), (483, 18841), (489, 18871), (494, 18895), (499, 18907), (501, 18916), (507, 18943), (522, 19012), (525, 19030), (528, 19039), (530, 19051), (536, 19087), (544, 19117), (549, 19138), (556, 19162), (559, 19198), (565, 19252), (576, 19312), (581, 19354), (601, 19432), (612, 19489), (616, 19513), (622, 19567), (626, 19615), (636, 19681), (637, 19684),

Gene: Bora_56 Start: 35766, Stop: 38276, Start Num: 57

Candidate Starts for Bora_56:

(Start: 57 @35766 has 33 MA's), (69, 35799), (93, 35868), (95, 35871), (106, 35895), (115, 35919), (126, 35943), (138, 35976), (186, 36129), (200, 36183), (203, 36195), (204, 36198), (237, 36345), (240, 36375), (246, 36399), (255, 36429), (256, 36432), (260, 36459), (263, 36483), (273, 36513), (296, 36570), (315, 36630), (316, 36642), (323, 36666), (324, 36669), (332, 36711), (352, 36807), (354, 36810), (413, 37065), (445, 37209), (456, 37269), (466, 37341), (467, 37344), (488, 37440), (525, 37614), (528, 37623), (530, 37635), (552, 37728), (555, 37740), (565, 37830), (579, 37905),

(598, 37950), (630, 38151), (635, 38205), (640, 38220),

Gene: Brewer_26 Start: 22532, Stop: 24928, Start Num: 80

Candidate Starts for Brewer_26:

(Start: 80 @22532 has 128 MA's), (157, 22709), (162, 22730), (220, 22877), (247, 23018), (254, 23051), (260, 23084), (268, 23120), (301, 23213), (319, 23273), (324, 23291), (350, 23423), (364, 23468), (393, 23600), (399, 23645), (442, 23819), (445, 23840), (453, 23879), (456, 23900), (458, 23915), (491, 24071), (494, 24089), (508, 24143), (525, 24227), (547, 24320), (591, 24566), (626, 24782), (637, 24866), (643, 24899),

Gene: BronnyJames_30 Start: 25923, Stop: 28418, Start Num: 43

Candidate Starts for BronnyJames_30:

(Start: 43 @25923 has 236 MA's), (124, 26118), (138, 26154), (143, 26169), (179, 26256), (184, 26271), (195, 26307), (197, 26313), (212, 26346), (215, 26358), (252, 26529), (255, 26538), (260, 26562), (273, 26616), (291, 26652), (293, 26658), (301, 26688), (312, 26718), (316, 26739), (319, 26748), (323, 26763), (338, 26832), (354, 26913), (357, 26922), (364, 26943), (365, 26946), (375, 26976), (382, 27012), (390, 27063), (391, 27072), (393, 27075), (397, 27102), (398, 27111), (401, 27132), (420, 27210), (421, 27213), (439, 27285), (446, 27321), (447, 27327), (455, 27369), (456, 27375), (463, 27417), (464, 27420), (467, 27441), (468, 27447), (469, 27450), (476, 27480), (506, 27621), (508, 27630), (509, 27639), (517, 27672), (522, 27696), (523, 27699), (525, 27714), (530, 27735), (536, 27771), (538, 27777), (540, 27783), (545, 27804), (552, 27831), (569, 27966), (580, 28038), (582, 28044), (591, 28062), (612, 28161), (626, 28278), (638, 28359), (640, 28362), (643, 28389),

Gene: Brookers_19 Start: 17254, Stop: 19731, Start Num: 43

Candidate Starts for Brookers_19:

(36, 17242), (Start: 43 @17254 has 236 MA's), (52, 17275), (Start: 60 @17296 has 1 MA's), (77, 17335), (109, 17404), (113, 17413), (115, 17416), (124, 17434), (138, 17467), (143, 17482), (179, 17569), (184, 17584), (195, 17620), (197, 17626), (212, 17659), (215, 17671), (252, 17842), (255, 17851), (260, 17875), (273, 17929), (291, 17965), (293, 17971), (301, 18001), (312, 18031), (316, 18052), (319, 18061), (338, 18145), (349, 18208), (354, 18226), (357, 18235), (364, 18256), (365, 18259), (372, 18277), (375, 18289), (380, 18316), (382, 18325), (390, 18376), (391, 18385), (393, 18388), (397, 18415), (398, 18424), (401, 18445), (420, 18523), (421, 18526), (446, 18634), (447, 18640), (456, 18688), (463, 18730), (464, 18733), (467, 18754), (468, 18760), (469, 18763), (476, 18793), (506, 18934), (509, 18952), (517, 18985), (522, 19009), (523, 19012), (525, 19027), (530, 19048), (536, 19084), (538, 19090), (545, 19117), (552, 19144), (569, 19279), (578, 19327), (580, 19351), (582, 19357), (591, 19375), (612, 19474), (615, 19495), (617, 19513), (626, 19591), (631, 19612), (640, 19675), (641, 19693), (644, 19711),

Gene: Bruin_26 Start: 22307, Stop: 24703, Start Num: 80

Candidate Starts for Bruin_26:

(Start: 80 @22307 has 128 MA's), (157, 22484), (162, 22505), (220, 22652), (247, 22793), (254, 22826), (260, 22859), (268, 22895), (301, 22988), (319, 23048), (324, 23066), (350, 23198), (364, 23243), (393, 23375), (399, 23420), (442, 23594), (445, 23615), (453, 23654), (456, 23675), (458, 23690), (491, 23846), (494, 23864), (508, 23918), (525, 24002), (547, 24095), (591, 24341), (626, 24557), (637, 24641), (643, 24674),

Gene: Brujita_21 Start: 19089, Stop: 21620, Start Num: 54

Candidate Starts for Brujita_21:

(Start: 54 @19089 has 2 MA's), (62, 19113), (99, 19224), (104, 19233), (115, 19260), (164, 19407), (232, 19674), (237, 19689), (240, 19719), (242, 19725), (246, 19743), (272, 19851), (293, 19902), (324, 20013), (325, 20016), (332, 20055), (341, 20088), (354, 20154), (375, 20214), (380, 20241), (381, 20247), (445, 20553), (456, 20613), (462, 20661), (463, 20664), (466, 20685), (467, 20688),

(525, 20949), (554, 21072), (555, 21075), (565, 21165), (576, 21222), (579, 21243), (603, 21303), (632, 21504), (635, 21546),

Gene: Brushbloom_19 Start: 17281, Stop: 19818, Start Num: 43

Candidate Starts for Brushbloom_19:

(Start: 43 @17281 has 236 MA's), (52, 17302), (Start: 60 @17323 has 1 MA's), (74, 17359), (75, 17362), (109, 17431), (113, 17440), (115, 17443), (124, 17461), (138, 17494), (143, 17509), (160, 17557), (190, 17662), (194, 17668), (195, 17671), (211, 17713), (212, 17716), (233, 17818), (246, 17884), (255, 17929), (260, 17959), (261, 17965), (263, 17983), (272, 18007), (274, 18016), (291, 18049), (293, 18055), (310, 18106), (315, 18124), (316, 18136), (319, 18145), (323, 18160), (325, 18166), (346, 18274), (348, 18286), (349, 18292), (352, 18307), (354, 18310), (362, 18331), (372, 18361), (375, 18373), (381, 18406), (393, 18472), (399, 18517), (400, 18520), (405, 18547), (407, 18553), (420, 18607), (421, 18610), (428, 18637), (445, 18712), (447, 18724), (448, 18727), (459, 18793), (464, 18817), (469, 18847), (478, 18889), (482, 18907), (483, 18910), (491, 18946), (494, 18964), (501, 18985), (507, 19012), (522, 19081), (525, 19099), (528, 19108), (530, 19120), (536, 19156), (549, 19207), (554, 19225), (559, 19267), (565, 19321), (581, 19423), (601, 19501), (612, 19558), (616, 19582), (622, 19636), (626, 19684), (634, 19726), (636, 19750), (637, 19753),

Gene: Bubbles123_19 Start: 18112, Stop: 20649, Start Num: 43

Candidate Starts for Bubbles123_19:

(Start: 43 @18112 has 236 MA's), (52, 18133), (Start: 60 @18154 has 1 MA's), (75, 18193), (109, 18262), (113, 18271), (115, 18274), (124, 18292), (138, 18325), (143, 18340), (160, 18388), (194, 18499), (195, 18502), (211, 18544), (212, 18547), (233, 18649), (246, 18715), (255, 18760), (260, 18790), (261, 18796), (263, 18814), (272, 18838), (274, 18847), (291, 18880), (293, 18886), (315, 18955), (316, 18967), (319, 18976), (323, 18991), (325, 18997), (346, 19105), (348, 19117), (349, 19123), (352, 19138), (354, 19141), (362, 19162), (372, 19192), (375, 19204), (381, 19237), (393, 19303), (399, 19348), (400, 19351), (405, 19378), (407, 19384), (420, 19438), (421, 19441), (428, 19468), (445, 19543), (447, 19555), (448, 19558), (459, 19624), (464, 19648), (469, 19678), (478, 19720), (482, 19738), (483, 19741), (491, 19777), (494, 19795), (501, 19816), (507, 19843), (522, 19912), (525, 19930), (528, 19939), (530, 19951), (536, 19987), (549, 20038), (556, 20062), (559, 20098), (565, 20152), (581, 20254), (601, 20332), (612, 20389), (616, 20413), (626, 20515), (634, 20557), (636, 20581), (637, 20584),

Gene: Buck_25 Start: 22240, Stop: 24636, Start Num: 80

Candidate Starts for Buck_25:

(Start: 80 @22240 has 128 MA's), (157, 22417), (162, 22438), (220, 22585), (247, 22726), (254, 22759), (260, 22792), (268, 22828), (301, 22921), (319, 22981), (324, 22999), (350, 23131), (364, 23176), (393, 23308), (399, 23353), (416, 23413), (442, 23527), (445, 23548), (453, 23587), (456, 23608), (458, 23623), (489, 23773), (491, 23779), (494, 23797), (508, 23851), (525, 23935), (547, 24028), (591, 24274), (626, 24490), (637, 24574), (643, 24607),

Gene: Budgie_28 Start: 21675, Stop: 24068, Start Num: 80

Candidate Starts for Budgie_28:

(Start: 80 @21675 has 128 MA's), (157, 21852), (162, 21873), (231, 22077), (232, 22083), (253, 22191), (254, 22194), (268, 22263), (315, 22392), (319, 22413), (341, 22512), (344, 22530), (393, 22740), (399, 22785), (445, 22980), (446, 22986), (448, 22995), (456, 23040), (458, 23055), (491, 23211), (494, 23229), (497, 23238), (525, 23367), (526, 23370), (564, 23580), (566, 23592), (607, 23775), (608, 23781), (626, 23922), (637, 24006), (641, 24030), (643, 24039),

Gene: BugsBunny_24 Start: 21873, Stop: 24269, Start Num: 80

Candidate Starts for BugsBunny_24:

(Start: 80 @21873 has 128 MA's), (157, 22050), (162, 22071), (220, 22218), (247, 22359), (254, 22392), (260, 22425), (268, 22461), (301, 22554), (319, 22614), (324, 22632), (350, 22764), (364,

22809), (393, 22941), (399, 22986), (416, 23046), (442, 23160), (445, 23181), (453, 23220), (456, 23241), (458, 23256), (489, 23406), (491, 23412), (494, 23430), (508, 23484), (525, 23568), (547, 23661), (591, 23907), (626, 24123), (637, 24207), (643, 24240),

Gene: Burwell21_18 Start: 17404, Stop: 19956, Start Num: 43

Candidate Starts for Burwell21_18:

(Start: 43 @17404 has 236 MA's), (75, 17485), (109, 17554), (113, 17563), (115, 17566), (124, 17584), (143, 17632), (159, 17677), (194, 17791), (195, 17794), (199, 17806), (209, 17827), (211, 17836), (212, 17839), (223, 17887), (229, 17917), (240, 17983), (247, 18016), (255, 18052), (259, 18076), (273, 18136), (274, 18139), (279, 18157), (308, 18220), (310, 18223), (315, 18241), (319, 18262), (324, 18280), (330, 18307), (334, 18328), (341, 18361), (348, 18403), (349, 18409), (350, 18412), (354, 18427), (363, 18454), (364, 18457), (372, 18478), (375, 18490), (381, 18523), (397, 18616), (420, 18724), (426, 18748), (428, 18754), (433, 18772), (434, 18775), (439, 18799), (445, 18829), (450, 18853), (456, 18889), (457, 18895), (458, 18904), (463, 18931), (473, 18994), (478, 19018), (479, 19033), (489, 19075), (502, 19126), (523, 19222), (525, 19237), (528, 19246), (533, 19270), (547, 19333), (556, 19369), (609, 19675), (616, 19720), (626, 19822),

Gene: BuzzLyseyear_20 Start: 17791, Stop: 20328, Start Num: 43

Candidate Starts for BuzzLyseyear_20:

(Start: 43 @17791 has 236 MA's), (52, 17812), (Start: 60 @17833 has 1 MA's), (75, 17872), (109, 17941), (113, 17950), (115, 17953), (124, 17971), (143, 18019), (190, 18172), (195, 18181), (212, 18226), (232, 18325), (233, 18328), (246, 18394), (260, 18469), (261, 18475), (263, 18493), (272, 18517), (273, 18523), (274, 18526), (291, 18559), (293, 18565), (301, 18595), (310, 18616), (316, 18646), (319, 18655), (323, 18670), (324, 18673), (346, 18784), (347, 18787), (348, 18796), (349, 18802), (352, 18817), (354, 18820), (362, 18841), (372, 18871), (375, 18883), (381, 18916), (399, 19027), (400, 19030), (405, 19057), (407, 19063), (420, 19117), (421, 19120), (443, 19207), (445, 19222), (447, 19234), (448, 19237), (459, 19303), (464, 19327), (467, 19348), (469, 19357), (482, 19417), (483, 19420), (491, 19456), (494, 19474), (499, 19486), (501, 19495), (507, 19522), (521, 19579), (522, 19591), (525, 19609), (528, 19618), (530, 19630), (536, 19666), (544, 19696), (547, 19705), (549, 19717), (559, 19777), (565, 19831), (576, 19891), (581, 19933), (612, 20068), (616, 20092), (622, 20146), (626, 20194), (634, 20236), (636, 20260), (637, 20263),

Gene: ByChance_18 Start: 17408, Stop: 19933, Start Num: 43

Candidate Starts for ByChance_18:

(Start: 43 @17408 has 236 MA's), (75, 17489), (109, 17558), (113, 17567), (115, 17570), (124, 17588), (143, 17636), (160, 17684), (194, 17795), (195, 17798), (210, 17831), (212, 17843), (229, 17921), (240, 17987), (247, 18020), (258, 18074), (260, 18086), (273, 18140), (274, 18143), (275, 18152), (294, 18185), (308, 18224), (310, 18227), (314, 18242), (315, 18245), (321, 18272), (322, 18278), (323, 18281), (324, 18284), (330, 18311), (333, 18329), (334, 18332), (348, 18407), (352, 18428), (354, 18431), (363, 18458), (372, 18482), (381, 18527), (382, 18530), (390, 18581), (400, 18644), (401, 18653), (407, 18677), (434, 18782), (435, 18785), (445, 18836), (446, 18842), (447, 18848), (448, 18851), (456, 18896), (458, 18911), (463, 18938), (467, 18962), (478, 19013), (482, 19031), (483, 19034), (484, 19046), (499, 19100), (508, 19142), (538, 19286), (552, 19340), (553, 19346), (554, 19349), (557, 19385), (558, 19388), (560, 19397), (561, 19424), (603, 19625), (626, 19796), (633, 19835), (639, 19874), (640, 19877),

Gene: Byougenkin_18 Start: 17418, Stop: 19949, Start Num: 43

Candidate Starts for Byougenkin_18:

(Start: 43 @17418 has 236 MA's), (83, 17508), (109, 17568), (113, 17577), (115, 17580), (124, 17598), (138, 17631), (143, 17646), (160, 17694), (194, 17805), (195, 17808), (208, 17838), (212, 17853), (229, 17931), (233, 17955), (246, 18021), (255, 18066), (260, 18096), (261, 18102), (263, 18120), (272, 18144), (273, 18150), (274, 18153), (291, 18186), (293, 18192), (315, 18261), (319, 18282), (323, 18297), (324, 18300), (346, 18411), (348, 18423), (349, 18429), (352, 18444), (354, 18447),

(362, 18468), (375, 18510), (381, 18543), (399, 18654), (400, 18657), (405, 18684), (407, 18690), (420, 18744), (421, 18747), (443, 18834), (445, 18849), (447, 18861), (448, 18864), (459, 18930), (464, 18954), (467, 18975), (469, 18984), (482, 19044), (483, 19047), (491, 19083), (494, 19101), (499, 19113), (501, 19122), (507, 19149), (522, 19218), (525, 19236), (528, 19245), (530, 19257), (536, 19293), (544, 19323), (549, 19344), (556, 19368), (559, 19404), (565, 19458), (576, 19518), (581, 19560), (601, 19638), (612, 19695), (616, 19719), (622, 19773), (626, 19821), (634, 19857), (636, 19881), (637, 19884),

Gene: CREW_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for CREW_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Cabrinians_18 Start: 17398, Stop: 19950, Start Num: 43

Candidate Starts for Cabrinians_18:

(Start: 43 @17398 has 236 MA's), (75, 17479), (109, 17548), (113, 17557), (115, 17560), (124, 17578), (143, 17626), (159, 17671), (194, 17785), (195, 17788), (199, 17800), (209, 17821), (211, 17830), (212, 17833), (223, 17881), (229, 17911), (240, 17977), (247, 18010), (255, 18046), (259, 18070), (273, 18130), (274, 18133), (279, 18151), (308, 18214), (310, 18217), (315, 18235), (319, 18256), (324, 18274), (330, 18301), (334, 18322), (341, 18355), (348, 18397), (349, 18403), (350, 18406), (354, 18421), (363, 18448), (364, 18451), (372, 18472), (375, 18484), (381, 18517), (397, 18610), (420, 18718), (426, 18742), (428, 18748), (433, 18766), (434, 18769), (439, 18793), (445, 18823), (450, 18847), (456, 18883), (457, 18889), (458, 18898), (463, 18925), (473, 18988), (478, 19012), (479, 19027), (489, 19069), (502, 19120), (523, 19216), (525, 19231), (528, 19240), (533, 19264), (547, 19327), (556, 19363), (609, 19669), (616, 19714), (626, 19816),

Gene: Cactus_27 Start: 21496, Stop: 23892, Start Num: 80

Candidate Starts for Cactus_27:

(Start: 80 @21496 has 128 MA's), (157, 21673), (162, 21694), (220, 21841), (247, 21982), (254, 22015), (260, 22048), (268, 22084), (301, 22177), (319, 22237), (324, 22255), (341, 22336), (393, 22564), (399, 22609), (445, 22804), (446, 22810), (448, 22819), (456, 22864), (458, 22879), (491, 23035), (494, 23053), (497, 23062), (525, 23191), (526, 23194), (564, 23404), (566, 23416), (591, 23530), (626, 23746), (637, 23830), (641, 23854), (643, 23863),

Gene: CallaLilly_27 Start: 20835, Stop: 23267, Start Num: 88

Candidate Starts for CallaLilly_27:

(Start: 88 @20835 has 96 MA's), (132, 20934), (218, 21195), (223, 21216), (263, 21423), (272, 21456), (276, 21486), (297, 21558), (303, 21582), (346, 21780), (353, 21825), (356, 21837), (360, 21846), (375, 21897), (406, 22077), (410, 22092), (424, 22161), (428, 22173), (440, 22236), (448, 22278), (456, 22317), (457, 22323), (458, 22332), (462, 22353), (475, 22413), (501, 22530), (509, 22572), (527, 22644), (529, 22653), (534, 22674), (548, 22746), (553, 22767), (565, 22863), (594, 23010), (610, 23091), (626, 23238),

Gene: Cambiare_23 Start: 21228, Stop: 23705, Start Num: 39

Candidate Starts for Cambiare_23:

(Start: 39 @21228 has 9 MA's), (77, 21336), (121, 21426), (151, 21474), (162, 21516), (219, 21693), (243, 21810), (263, 21909), (292, 21990), (304, 22032), (314, 22056), (320, 22083), (321, 22086), (324, 22098), (341, 22179), (350, 22230), (384, 22359), (386, 22371), (407, 22497), (420, 22557), (423, 22572), (425, 22578), (438, 22647), (464, 22785), (478, 22848), (484, 22887), (513, 23022),

(516, 23031), (528, 23079), (531, 23094), (554, 23205), (603, 23499), (612, 23550), (623, 23643),

Gene: Capricorn_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Capricorn_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: CaptainTrips_19 Start: 18092, Stop: 20629, Start Num: 43

Candidate Starts for CaptainTrips_19:

(Start: 43 @18092 has 236 MA's), (83, 18182), (109, 18242), (113, 18251), (115, 18254), (124, 18272), (138, 18305), (143, 18320), (160, 18368), (194, 18479), (195, 18482), (208, 18512), (211, 18524), (212, 18527), (229, 18605), (233, 18629), (246, 18695), (255, 18740), (260, 18770), (261, 18776), (263, 18794), (272, 18818), (274, 18827), (291, 18860), (293, 18866), (301, 18896), (315, 18935), (316, 18947), (319, 18956), (323, 18971), (324, 18974), (346, 19085), (347, 19088), (348, 19097), (349, 19103), (352, 19118), (354, 19121), (362, 19142), (372, 19172), (375, 19184), (381, 19217), (399, 19328), (400, 19331), (405, 19358), (407, 19364), (420, 19418), (421, 19421), (443, 19508), (445, 19523), (447, 19535), (448, 19538), (459, 19604), (464, 19628), (467, 19649), (469, 19658), (482, 19718), (483, 19721), (491, 19757), (494, 19775), (499, 19787), (501, 19796), (507, 19823), (522, 19892), (525, 19910), (528, 19919), (530, 19931), (536, 19967), (544, 19997), (549, 20018), (556, 20042), (559, 20078), (565, 20132), (576, 20192), (581, 20234), (601, 20312), (612, 20369), (616, 20393), (622, 20447), (626, 20495), (634, 20537), (636, 20561), (637, 20564),

Gene: CaseJules_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for CaseJules_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Catdawg_58 Start: 36145, Stop: 38655, Start Num: 57

Candidate Starts for Catdawg_58:

(Start: 57 @36145 has 33 MA's), (69, 36178), (93, 36247), (95, 36250), (106, 36274), (115, 36298), (126, 36322), (138, 36355), (200, 36562), (203, 36574), (204, 36577), (237, 36724), (240, 36754), (246, 36778), (255, 36808), (256, 36811), (260, 36838), (263, 36862), (273, 36892), (296, 36949), (302, 36973), (315, 37009), (316, 37021), (323, 37045), (324, 37048), (332, 37090), (352, 37186), (354, 37189), (413, 37444), (445, 37588), (456, 37648), (466, 37720), (467, 37723), (488, 37819), (525, 37993), (530, 38014), (552, 38107), (555, 38119), (565, 38209), (579, 38284), (598, 38329), (630, 38530), (635, 38584), (640, 38599),

Gene: Cborch11_30 Start: 25681, Stop: 28524, Start Num: 15

Candidate Starts for Cborch11_30:

(Start: 15 @25681 has 8 MA's), (19, 25813), (21, 25825), (23, 25834), (38, 25903), (41, 25909), (65, 25969), (71, 25990), (89, 26038), (107, 26080), (118, 26104), (129, 26137), (145, 26173), (152, 26185), (178, 26278), (195, 26335), (207, 26374), (235, 26500), (247, 26569), (253, 26599), (261, 26641), (274, 26692), (310, 26782), (315, 26800), (332, 26881), (341, 26920), (345, 26941), (381, 27079), (387, 27118), (398, 27181), (421, 27283), (466, 27508), (545, 27871), (552, 27898), (593, 28141), (599, 28174), (605, 28198), (621, 28318), (632, 28396), (643, 28483), (645, 28498), (646,

28504),

Gene: Che8_18 Start: 17426, Stop: 19963, Start Num: 43

Candidate Starts for Che8_18:

(Start: 43 @17426 has 236 MA's), (52, 17447), (Start: 60 @17468 has 1 MA's), (75, 17507), (109, 17576), (113, 17585), (115, 17588), (124, 17606), (138, 17639), (143, 17654), (194, 17813), (195, 17816), (208, 17846), (212, 17861), (229, 17939), (233, 17963), (246, 18029), (260, 18104), (261, 18110), (263, 18128), (272, 18152), (273, 18158), (274, 18161), (291, 18194), (293, 18200), (301, 18230), (310, 18251), (316, 18281), (319, 18290), (342, 18398), (345, 18410), (346, 18419), (347, 18422), (348, 18431), (349, 18437), (352, 18452), (354, 18455), (362, 18476), (372, 18506), (375, 18518), (381, 18551), (405, 18692), (407, 18698), (420, 18752), (421, 18755), (428, 18782), (445, 18857), (447, 18869), (448, 18872), (452, 18893), (459, 18938), (464, 18962), (469, 18992), (478, 19034), (482, 19052), (483, 19055), (491, 19091), (494, 19109), (499, 19121), (501, 19130), (507, 19157), (521, 19214), (522, 19226), (525, 19244), (528, 19253), (530, 19265), (536, 19301), (544, 19331), (547, 19340), (549, 19352), (559, 19412), (565, 19466), (581, 19568), (601, 19646), (612, 19703), (616, 19727), (622, 19781), (626, 19829), (631, 19850), (636, 19895), (637, 19898),

Gene: Che9d_24 Start: 17101, Stop: 19650, Start Num: 27

Candidate Starts for Che9d_24:

(24, 17092), (Start: 27 @17101 has 7 MA's), (Start: 43 @17161 has 236 MA's), (58, 17197), (104, 17296), (160, 17437), (179, 17476), (184, 17491), (195, 17527), (197, 17533), (198, 17536), (210, 17554), (215, 17578), (222, 17602), (223, 17605), (252, 17749), (255, 17758), (260, 17782), (263, 17806), (272, 17830), (273, 17836), (279, 17857), (281, 17860), (293, 17878), (301, 17908), (312, 17938), (316, 17959), (338, 18052), (341, 18067), (342, 18076), (346, 18097), (347, 18100), (357, 18142), (372, 18184), (373, 18187), (375, 18196), (380, 18223), (382, 18232), (388, 18271), (391, 18292), (393, 18295), (398, 18331), (401, 18352), (420, 18430), (421, 18433), (436, 18487), (447, 18547), (462, 18634), (464, 18640), (467, 18661), (476, 18697), (487, 18751), (489, 18760), (506, 18838), (509, 18856), (518, 18892), (519, 18895), (522, 18913), (525, 18931), (536, 18988), (540, 19000), (556, 19063), (559, 19096), (569, 19183), (578, 19231), (580, 19255), (587, 19282), (591, 19291), (600, 19330), (608, 19369), (612, 19393), (615, 19414), (626, 19510), (631, 19531), (638, 19591), (640, 19594), (643, 19621),

Gene: Cheesepuff_20 Start: 18248, Stop: 20785, Start Num: 43

Candidate Starts for Cheesepuff_20:

(Start: 43 @18248 has 236 MA's), (52, 18269), (Start: 60 @18290 has 1 MA's), (75, 18329), (109, 18398), (113, 18407), (115, 18410), (124, 18428), (138, 18461), (143, 18476), (190, 18629), (195, 18638), (212, 18683), (232, 18782), (233, 18785), (246, 18851), (255, 18896), (260, 18926), (261, 18932), (263, 18950), (272, 18974), (273, 18980), (274, 18983), (291, 19016), (293, 19022), (301, 19052), (315, 19091), (316, 19103), (319, 19112), (323, 19127), (324, 19130), (346, 19241), (347, 19244), (348, 19253), (349, 19259), (352, 19274), (354, 19277), (362, 19298), (372, 19328), (375, 19340), (381, 19373), (399, 19484), (400, 19487), (405, 19514), (407, 19520), (420, 19574), (421, 19577), (431, 19613), (443, 19664), (445, 19679), (447, 19691), (448, 19694), (459, 19760), (464, 19784), (467, 19805), (469, 19814), (482, 19874), (483, 19877), (491, 19913), (494, 19931), (499, 19943), (501, 19952), (507, 19979), (521, 20036), (522, 20048), (525, 20066), (528, 20075), (530, 20087), (536, 20123), (544, 20153), (547, 20162), (549, 20174), (556, 20198), (559, 20234), (565, 20288), (576, 20348), (581, 20390), (601, 20468), (612, 20525), (616, 20549), (622, 20603), (626, 20651), (634, 20693), (636, 20717), (637, 20720),

Gene: CheetoDust_27 Start: 20889, Stop: 23321, Start Num: 88

Candidate Starts for CheetoDust_27:

(Start: 88 @20889 has 96 MA's), (132, 20988), (218, 21249), (263, 21477), (271, 21507), (272, 21510), (276, 21540), (297, 21612), (303, 21636), (316, 21681), (346, 21834), (353, 21879), (356, 21891), (360, 21900), (375, 21951), (406, 22131), (410, 22146), (420, 22197), (424, 22215), (428, 22227),

(436, 22269), (440, 22290), (448, 22332), (456, 22371), (457, 22377), (458, 22386), (462, 22407), (471, 22455), (475, 22467), (484, 22515), (501, 22584), (509, 22626), (525, 22695), (527, 22698), (529, 22707), (534, 22728), (553, 22821), (565, 22917), (576, 22980), (594, 23064), (610, 23145), (619, 23220),

Gene: Chevrolet_18 Start: 17438, Stop: 19975, Start Num: 43

Candidate Starts for Chevrolet_18:

(Start: 43 @17438 has 236 MA's), (52, 17459), (Start: 60 @17480 has 1 MA's), (75, 17519), (109, 17588), (113, 17597), (115, 17600), (124, 17618), (138, 17651), (143, 17666), (194, 17825), (195, 17828), (208, 17858), (212, 17873), (229, 17951), (232, 17972), (233, 17975), (246, 18041), (260, 18116), (261, 18122), (272, 18164), (273, 18170), (274, 18173), (291, 18206), (293, 18212), (301, 18242), (310, 18263), (316, 18293), (319, 18302), (342, 18410), (345, 18422), (346, 18431), (347, 18434), (348, 18443), (349, 18449), (352, 18464), (354, 18467), (362, 18488), (375, 18530), (381, 18563), (405, 18704), (407, 18710), (420, 18764), (421, 18767), (428, 18794), (443, 18854), (445, 18869), (447, 18881), (448, 18884), (459, 18950), (464, 18974), (467, 18995), (469, 19004), (482, 19064), (483, 19067), (491, 19103), (494, 19121), (499, 19133), (501, 19142), (507, 19169), (522, 19238), (525, 19256), (528, 19265), (530, 19277), (536, 19313), (544, 19343), (559, 19424), (565, 19478), (576, 19538), (581, 19580), (601, 19658), (612, 19715), (616, 19739), (622, 19793), (626, 19841), (634, 19883), (636, 19907), (637, 19910),

Gene: ChickenDinner_19 Start: 17271, Stop: 19796, Start Num: 43

Candidate Starts for ChickenDinner_19:

(Start: 43 @17271 has 236 MA's), (52, 17292), (Start: 60 @17313 has 1 MA's), (75, 17352), (109, 17421), (113, 17430), (115, 17433), (124, 17451), (138, 17484), (143, 17499), (160, 17547), (194, 17658), (195, 17661), (212, 17706), (229, 17784), (233, 17808), (246, 17874), (247, 17883), (260, 17949), (261, 17955), (263, 17973), (272, 17997), (273, 18003), (274, 18006), (291, 18039), (293, 18045), (301, 18075), (310, 18096), (319, 18135), (323, 18150), (325, 18156), (354, 18300), (372, 18351), (392, 18462), (400, 18513), (404, 18537), (428, 18630), (439, 18675), (442, 18684), (445, 18705), (447, 18717), (448, 18720), (456, 18765), (464, 18810), (466, 18828), (467, 18831), (478, 18882), (489, 18933), (491, 18939), (494, 18957), (499, 18969), (501, 18978), (508, 19011), (525, 19092), (540, 19161), (547, 19188), (553, 19215), (560, 19266), (565, 19314), (615, 19557), (626, 19662), (631, 19683), (639, 19737), (642, 19761),

Gene: ChosenOne_25 Start: 21491, Stop: 23887, Start Num: 80

Candidate Starts for ChosenOne_25:

(Start: 80 @21491 has 128 MA's), (157, 21668), (162, 21689), (220, 21836), (254, 22010), (260, 22043), (268, 22079), (301, 22172), (319, 22232), (324, 22250), (350, 22382), (364, 22427), (393, 22559), (399, 22604), (416, 22664), (442, 22778), (445, 22799), (453, 22838), (456, 22859), (458, 22874), (489, 23024), (491, 23030), (494, 23048), (508, 23102), (525, 23186), (547, 23279), (591, 23525), (626, 23741), (637, 23825), (643, 23858),

Gene: ChotaBhai_26 Start: 21533, Stop: 23929, Start Num: 80

Candidate Starts for ChotaBhai_26:

(Start: 80 @21533 has 128 MA's), (157, 21710), (162, 21731), (220, 21878), (247, 22019), (254, 22052), (260, 22085), (268, 22121), (301, 22214), (319, 22274), (324, 22292), (350, 22424), (364, 22469), (393, 22601), (399, 22646), (442, 22820), (445, 22841), (453, 22880), (456, 22901), (458, 22916), (491, 23072), (494, 23090), (508, 23144), (525, 23228), (547, 23321), (591, 23567), (626, 23783), (637, 23867), (643, 23900),

Gene: Chris_26 Start: 20139, Stop: 22598, Start Num: 88

Candidate Starts for Chris_26:

(Start: 88 @20139 has 96 MA's), (92, 20148), (109, 20187), (159, 20310), (180, 20367), (212, 20472), (223, 20520), (228, 20547), (261, 20709), (283, 20820), (285, 20829), (286, 20838), (290, 20859),

(303, 20907), (329, 21009), (358, 21168), (379, 21249), (397, 21351), (406, 21405), (419, 21465), (432, 21528), (436, 21543), (437, 21555), (440, 21564), (448, 21606), (456, 21651), (458, 21666), (477, 21753), (481, 21777), (534, 22014), (554, 22110), (573, 22248), (590, 22332), (625, 22563), (626, 22569),

Gene: Chuckly_18 Start: 17569, Stop: 20106, Start Num: 43

Candidate Starts for Chuckly_18:

(35, 17557), (Start: 43 @17569 has 236 MA's), (52, 17590), (Start: 60 @17611 has 1 MA's), (75, 17650), (109, 17719), (113, 17728), (115, 17731), (124, 17749), (138, 17782), (143, 17797), (160, 17845), (194, 17956), (195, 17959), (208, 17989), (211, 18001), (212, 18004), (229, 18082), (233, 18106), (246, 18172), (255, 18217), (260, 18247), (261, 18253), (263, 18271), (272, 18295), (274, 18304), (291, 18337), (293, 18343), (301, 18373), (315, 18412), (316, 18424), (319, 18433), (323, 18448), (325, 18454), (346, 18562), (347, 18565), (348, 18574), (349, 18580), (352, 18595), (354, 18598), (362, 18619), (372, 18649), (375, 18661), (381, 18694), (393, 18760), (399, 18805), (400, 18808), (405, 18835), (407, 18841), (420, 18895), (421, 18898), (443, 18985), (445, 19000), (447, 19012), (448, 19015), (459, 19081), (464, 19105), (467, 19126), (469, 19135), (482, 19195), (483, 19198), (491, 19234), (494, 19252), (501, 19273), (507, 19300), (522, 19369), (525, 19387), (528, 19396), (530, 19408), (536, 19444), (544, 19474), (549, 19495), (556, 19519), (559, 19555), (565, 19609), (576, 19669), (581, 19711), (612, 19846), (616, 19870), (622, 19924), (626, 19972), (634, 20014), (636, 20038), (637, 20041),

Gene: Cjw1_26 Start: 23044, Stop: 25440, Start Num: 80

Candidate Starts for Cjw1_26:

(Start: 80 @23044 has 128 MA's), (157, 23221), (162, 23242), (220, 23389), (254, 23563), (260, 23596), (268, 23632), (319, 23785), (324, 23803), (350, 23935), (364, 23980), (393, 24112), (399, 24157), (416, 24217), (442, 24331), (445, 24352), (453, 24391), (456, 24412), (458, 24427), (489, 24577), (491, 24583), (494, 24601), (508, 24655), (525, 24739), (547, 24832), (591, 25078), (626, 25294), (637, 25378), (643, 25411),

Gene: Clank_18 Start: 17552, Stop: 20029, Start Num: 43

Candidate Starts for Clank_18:

(Start: 43 @17552 has 236 MA's), (52, 17573), (Start: 60 @17594 has 1 MA's), (77, 17633), (109, 17702), (113, 17711), (115, 17714), (124, 17732), (138, 17765), (143, 17780), (179, 17867), (184, 17882), (195, 17918), (197, 17924), (212, 17957), (215, 17969), (252, 18140), (255, 18149), (260, 18173), (273, 18227), (291, 18263), (293, 18269), (301, 18299), (312, 18329), (316, 18350), (319, 18359), (323, 18374), (338, 18443), (354, 18524), (357, 18533), (364, 18554), (365, 18557), (375, 18587), (382, 18623), (390, 18674), (391, 18683), (393, 18686), (397, 18713), (398, 18722), (401, 18743), (420, 18821), (421, 18824), (439, 18896), (446, 18932), (447, 18938), (455, 18980), (456, 18986), (463, 19028), (464, 19031), (467, 19052), (468, 19058), (469, 19061), (476, 19091), (506, 19232), (508, 19241), (509, 19250), (517, 19283), (522, 19307), (523, 19310), (525, 19325), (530, 19346), (536, 19382), (538, 19388), (540, 19394), (545, 19415), (552, 19442), (569, 19577), (580, 19649), (582, 19655), (591, 19673), (612, 19772), (626, 19889), (638, 19970), (640, 19973), (643, 20000),

Gene: Clipper_27 Start: 20889, Stop: 23321, Start Num: 88

Candidate Starts for Clipper_27:

(Start: 88 @20889 has 96 MA's), (132, 20988), (218, 21249), (223, 21270), (263, 21477), (272, 21510), (276, 21540), (297, 21612), (303, 21636), (316, 21681), (346, 21834), (353, 21879), (356, 21891), (360, 21900), (375, 21951), (406, 22131), (410, 22146), (424, 22215), (428, 22227), (440, 22290), (448, 22332), (456, 22371), (457, 22377), (458, 22386), (462, 22407), (475, 22467), (501, 22584), (509, 22626), (527, 22698), (529, 22707), (534, 22728), (548, 22800), (553, 22821), (565, 22917), (610, 23145), (626, 23292),

Gene: Cloudyecho_22 Start: 20645, Stop: 23107, Start Num: 39

Candidate Starts for Cloudyecho_22:

(Start: 39 @20645 has 9 MA's), (76, 20750), (77, 20753), (139, 20873), (156, 20906), (158, 20915), (166, 20948), (203, 21053), (243, 21236), (257, 21296), (293, 21419), (304, 21458), (320, 21509), (341, 21605), (345, 21626), (355, 21680), (379, 21761), (381, 21770), (386, 21797), (406, 21917), (413, 21944), (425, 22004), (436, 22052), (438, 22067), (451, 22133), (478, 22268), (490, 22328), (494, 22352), (559, 22652), (564, 22703), (566, 22715), (581, 22811), (591, 22847), (611, 22940), (623, 23045),

Gene: Coco12_20 Start: 17795, Stop: 20272, Start Num: 43

Candidate Starts for Coco12_20:

(36, 17783), (Start: 43 @17795 has 236 MA's), (52, 17816), (Start: 60 @17837 has 1 MA's), (77, 17876), (109, 17945), (113, 17954), (115, 17957), (124, 17975), (138, 18008), (143, 18023), (179, 18110), (184, 18125), (195, 18161), (197, 18167), (212, 18200), (215, 18212), (252, 18383), (255, 18392), (260, 18416), (273, 18470), (291, 18506), (293, 18512), (301, 18542), (312, 18572), (316, 18593), (319, 18602), (338, 18686), (349, 18749), (354, 18767), (357, 18776), (364, 18797), (365, 18800), (372, 18818), (375, 18830), (380, 18857), (382, 18866), (390, 18917), (391, 18926), (393, 18929), (397, 18956), (398, 18965), (401, 18986), (420, 19064), (421, 19067), (446, 19175), (447, 19181), (456, 19229), (463, 19271), (464, 19274), (467, 19295), (468, 19301), (469, 19304), (476, 19334), (506, 19475), (509, 19493), (517, 19526), (522, 19550), (523, 19553), (525, 19568), (530, 19589), (536, 19625), (538, 19631), (545, 19658), (552, 19685), (569, 19820), (578, 19868), (580, 19892), (582, 19898), (591, 19916), (612, 20015), (615, 20036), (617, 20054), (626, 20132), (631, 20153), (640, 20216), (641, 20234), (644, 20252),

Gene: Command613_27 Start: 22552, Stop: 24948, Start Num: 80

Candidate Starts for Command613_27:

(Start: 80 @22552 has 128 MA's), (157, 22729), (162, 22750), (220, 22897), (247, 23038), (254, 23071), (260, 23104), (268, 23140), (301, 23233), (319, 23293), (324, 23311), (341, 23392), (393, 23620), (399, 23665), (445, 23860), (446, 23866), (448, 23875), (456, 23920), (458, 23935), (491, 24091), (494, 24109), (497, 24118), (525, 24247), (526, 24250), (564, 24460), (566, 24472), (591, 24586), (626, 24802), (637, 24886), (641, 24910), (643, 24919),

Gene: Contagion_25 Start: 21791, Stop: 24187, Start Num: 80

Candidate Starts for Contagion_25:

(Start: 80 @21791 has 128 MA's), (157, 21968), (162, 21989), (220, 22136), (247, 22277), (254, 22310), (260, 22343), (268, 22379), (301, 22472), (319, 22532), (324, 22550), (350, 22682), (364, 22727), (393, 22859), (399, 22904), (442, 23078), (445, 23099), (453, 23138), (456, 23159), (458, 23174), (491, 23330), (494, 23348), (508, 23402), (525, 23486), (547, 23579), (591, 23825), (626, 24041), (637, 24125), (643, 24158),

Gene: Cookies_26 Start: 22153, Stop: 24549, Start Num: 80

Candidate Starts for Cookies_26:

(Start: 80 @22153 has 128 MA's), (157, 22330), (162, 22351), (220, 22498), (247, 22639), (254, 22672), (260, 22705), (268, 22741), (301, 22834), (319, 22894), (324, 22912), (350, 23044), (364, 23089), (393, 23221), (399, 23266), (416, 23326), (442, 23440), (445, 23461), (453, 23500), (456, 23521), (458, 23536), (489, 23686), (491, 23692), (494, 23710), (508, 23764), (525, 23848), (547, 23941), (591, 24187), (626, 24403), (637, 24487), (643, 24520),

Gene: Corium_18 Start: 17437, Stop: 19974, Start Num: 43

Candidate Starts for Corium_18:

(35, 17425), (Start: 43 @17437 has 236 MA's), (52, 17458), (Start: 60 @17479 has 1 MA's), (75, 17518), (109, 17587), (113, 17596), (115, 17599), (124, 17617), (138, 17650), (143, 17665), (160, 17713), (194, 17824), (195, 17827), (208, 17857), (211, 17869), (212, 17872), (229, 17950), (233,

17974), (246, 18040), (255, 18085), (260, 18115), (261, 18121), (263, 18139), (272, 18163), (274, 18172), (291, 18205), (293, 18211), (301, 18241), (315, 18280), (316, 18292), (319, 18301), (323, 18316), (324, 18319), (346, 18430), (347, 18433), (348, 18442), (349, 18448), (352, 18463), (354, 18466), (362, 18487), (372, 18517), (375, 18529), (381, 18562), (399, 18673), (400, 18676), (405, 18703), (407, 18709), (420, 18763), (421, 18766), (443, 18853), (445, 18868), (447, 18880), (448, 18883), (459, 18949), (464, 18973), (467, 18994), (469, 19003), (482, 19063), (483, 19066), (491, 19102), (494, 19120), (499, 19132), (501, 19141), (507, 19168), (522, 19237), (525, 19255), (528, 19264), (530, 19276), (536, 19312), (544, 19342), (549, 19363), (556, 19387), (559, 19423), (565, 19477), (576, 19537), (581, 19579), (601, 19657), (612, 19714), (616, 19738), (622, 19792), (626, 19840), (634, 19882), (636, 19906), (637, 19909),

Gene: Corndog_61 Start: 37139, Stop: 39649, Start Num: 57

Candidate Starts for Corndog_61:

(Start: 57 @37139 has 33 MA's), (69, 37172), (93, 37241), (95, 37244), (106, 37268), (115, 37292), (126, 37316), (138, 37349), (200, 37556), (203, 37568), (204, 37571), (237, 37718), (240, 37748), (246, 37772), (255, 37802), (256, 37805), (260, 37832), (263, 37856), (273, 37886), (296, 37943), (315, 38003), (316, 38015), (323, 38039), (324, 38042), (332, 38084), (352, 38180), (354, 38183), (413, 38438), (445, 38582), (456, 38642), (466, 38714), (467, 38717), (488, 38813), (525, 38987), (530, 39008), (552, 39101), (555, 39113), (565, 39203), (579, 39278), (598, 39323), (630, 39524), (635, 39578), (640, 39593),

Gene: Cornie_20 Start: 18264, Stop: 20744, Start Num: 45

Candidate Starts for Cornie_20:

(Start: 45 @18264 has 1 MA's), (Start: 47 @18270 has 6 MA's), (52, 18276), (Start: 80 @18339 has 128 MA's), (82, 18342), (96, 18369), (119, 18423), (124, 18432), (138, 18465), (153, 18498), (160, 18531), (179, 18570), (184, 18585), (195, 18621), (197, 18627), (198, 18630), (210, 18648), (212, 18660), (215, 18672), (222, 18696), (223, 18699), (243, 18804), (247, 18828), (252, 18843), (255, 18852), (260, 18876), (261, 18882), (263, 18900), (268, 18912), (270, 18918), (272, 18924), (273, 18930), (274, 18933), (275, 18942), (279, 18951), (291, 18966), (301, 19002), (315, 19041), (316, 19053), (319, 19062), (338, 19146), (354, 19227), (357, 19236), (365, 19260), (375, 19290), (382, 19326), (390, 19377), (391, 19386), (393, 19389), (397, 19416), (398, 19425), (401, 19446), (411, 19482), (420, 19524), (421, 19527), (436, 19581), (447, 19641), (462, 19728), (464, 19734), (467, 19755), (476, 19791), (487, 19845), (489, 19854), (506, 19932), (509, 19950), (518, 19986), (519, 19989), (522, 20007), (525, 20025), (536, 20082), (540, 20094), (556, 20157), (559, 20190), (569, 20277), (578, 20325), (580, 20349), (587, 20376), (591, 20385), (600, 20424), (608, 20463), (612, 20487), (615, 20508), (626, 20604), (631, 20625), (638, 20685), (640, 20688), (643, 20715),

Gene: Cornucopia_19 Start: 17435, Stop: 19972, Start Num: 43

Candidate Starts for Cornucopia_19:

(Start: 43 @17435 has 236 MA's), (52, 17456), (Start: 60 @17477 has 1 MA's), (75, 17516), (109, 17585), (113, 17594), (115, 17597), (124, 17615), (143, 17663), (190, 17816), (195, 17825), (212, 17870), (232, 17969), (233, 17972), (246, 18038), (260, 18113), (261, 18119), (263, 18137), (272, 18161), (274, 18170), (291, 18203), (293, 18209), (301, 18239), (310, 18260), (315, 18278), (316, 18290), (319, 18299), (323, 18314), (324, 18317), (346, 18428), (347, 18431), (348, 18440), (349, 18446), (352, 18461), (354, 18464), (362, 18485), (372, 18515), (375, 18527), (381, 18560), (399, 18671), (400, 18674), (405, 18701), (407, 18707), (420, 18761), (421, 18764), (434, 18812), (443, 18851), (445, 18866), (447, 18878), (448, 18881), (452, 18902), (459, 18947), (464, 18971), (469, 19001), (478, 19043), (482, 19061), (483, 19064), (491, 19100), (494, 19118), (499, 19130), (501, 19139), (508, 19172), (522, 19235), (525, 19253), (528, 19262), (530, 19274), (544, 19340), (549, 19361), (556, 19385), (559, 19421), (565, 19475), (576, 19535), (581, 19577), (601, 19655), (612, 19712), (616, 19736), (622, 19790), (626, 19838), (634, 19880), (636, 19904), (637, 19907),

Gene: Cosmo_43 Start: 28347, Stop: 30914, Start Num: 42

Candidate Starts for Cosmo_43:

(Start: 42 @28347 has 6 MA's), (69, 28416), (119, 28539), (123, 28545), (124, 28548), (136, 28572), (142, 28593), (190, 28749), (193, 28755), (195, 28761), (204, 28791), (206, 28797), (212, 28818), (214, 28827), (226, 28887), (234, 28923), (242, 28965), (261, 29064), (269, 29097), (273, 29112), (274, 29115), (293, 29154), (310, 29205), (315, 29223), (319, 29244), (321, 29250), (328, 29277), (332, 29304), (346, 29373), (351, 29397), (357, 29418), (364, 29439), (368, 29448), (375, 29469), (381, 29502), (382, 29505), (390, 29556), (393, 29568), (403, 29634), (408, 29652), (417, 29691), (445, 29808), (454, 29853), (463, 29910), (467, 29934), (469, 29943), (472, 29961), (482, 30006), (489, 30039), (496, 30075), (535, 30249), (536, 30267), (538, 30273), (553, 30330), (611, 30654), (613, 30672), (620, 30723), (627, 30786), (636, 30861),

Gene: Courthouse_36 Start: 27742, Stop: 30249, Start Num: 43

Candidate Starts for Courthouse_36:

(Start: 43 @27742 has 236 MA's), (124, 27937), (138, 27973), (143, 27988), (179, 28075), (184, 28090), (212, 28165), (215, 28177), (223, 28204), (243, 28309), (252, 28348), (255, 28357), (260, 28381), (261, 28387), (263, 28405), (270, 28423), (274, 28438), (275, 28447), (279, 28456), (291, 28471), (299, 28498), (301, 28507), (315, 28546), (316, 28558), (319, 28567), (338, 28651), (354, 28732), (364, 28762), (365, 28765), (375, 28795), (380, 28822), (382, 28831), (390, 28882), (391, 28891), (393, 28894), (398, 28930), (401, 28951), (411, 28987), (446, 29140), (456, 29194), (464, 29239), (466, 29257), (467, 29260), (476, 29299), (506, 29446), (508, 29455), (523, 29524), (525, 29539), (559, 29704), (569, 29791), (578, 29839), (591, 29890), (608, 29968), (638, 30190), (640, 30193), (643, 30220),

Gene: CrimD_27 Start: 20850, Stop: 23282, Start Num: 88

Candidate Starts for CrimD_27:

(Start: 88 @20850 has 96 MA's), (132, 20949), (218, 21210), (263, 21438), (272, 21471), (276, 21501), (297, 21573), (303, 21597), (316, 21642), (346, 21795), (353, 21840), (356, 21852), (360, 21861), (371, 21897), (375, 21912), (406, 22092), (410, 22107), (424, 22176), (428, 22188), (440, 22251), (448, 22293), (456, 22332), (457, 22338), (458, 22347), (462, 22368), (475, 22428), (501, 22545), (509, 22587), (529, 22668), (534, 22689), (553, 22782), (565, 22878), (610, 23106),

Gene: CrystalP_26 Start: 22284, Stop: 24680, Start Num: 80

Candidate Starts for CrystalP_26:

(Start: 80 @22284 has 128 MA's), (157, 22461), (162, 22482), (220, 22629), (247, 22770), (254, 22803), (260, 22836), (268, 22872), (301, 22965), (319, 23025), (324, 23043), (341, 23124), (393, 23352), (399, 23397), (445, 23592), (446, 23598), (448, 23607), (456, 23652), (458, 23667), (491, 23823), (494, 23841), (497, 23850), (525, 23979), (526, 23982), (564, 24192), (566, 24204), (591, 24318), (626, 24534), (637, 24618), (641, 24642), (643, 24651),

Gene: Czyszczone1_27 Start: 22029, Stop: 24425, Start Num: 80

Candidate Starts for Czyszczone1_27:

(Start: 80 @22029 has 128 MA's), (157, 22206), (162, 22227), (220, 22374), (254, 22548), (260, 22581), (268, 22617), (301, 22710), (319, 22770), (324, 22788), (350, 22920), (364, 22965), (393, 23097), (399, 23142), (416, 23202), (442, 23316), (445, 23337), (453, 23376), (456, 23397), (458, 23412), (489, 23562), (491, 23568), (494, 23586), (508, 23640), (525, 23724), (547, 23817), (591, 24063), (626, 24279), (637, 24363), (643, 24396),

Gene: DLane_18 Start: 17386, Stop: 19923, Start Num: 43

Candidate Starts for DLane_18:

(35, 17374), (Start: 43 @17386 has 236 MA's), (52, 17407), (Start: 60 @17428 has 1 MA's), (75, 17467), (109, 17536), (113, 17545), (115, 17548), (124, 17566), (138, 17599), (143, 17614), (160, 17662), (194, 17773), (195, 17776), (208, 17806), (210, 17809), (212, 17821), (229, 17899), (233, 17923), (246, 17989), (255, 18034), (260, 18064), (261, 18070), (263, 18088), (272, 18112), (274,

18121), (291, 18154), (293, 18160), (301, 18190), (316, 18241), (319, 18250), (323, 18265), (324, 18268), (346, 18379), (347, 18382), (348, 18391), (349, 18397), (352, 18412), (354, 18415), (362, 18436), (372, 18466), (375, 18478), (381, 18511), (399, 18622), (400, 18625), (405, 18652), (407, 18658), (420, 18712), (421, 18715), (445, 18817), (447, 18829), (448, 18832), (459, 18898), (464, 18922), (467, 18943), (469, 18952), (482, 19012), (483, 19015), (491, 19051), (494, 19069), (499, 19081), (501, 19090), (507, 19117), (522, 19186), (525, 19204), (528, 19213), (530, 19225), (536, 19261), (544, 19291), (549, 19312), (556, 19336), (559, 19372), (565, 19426), (576, 19486), (581, 19528), (601, 19606), (612, 19663), (616, 19687), (622, 19741), (626, 19789), (634, 19831), (636, 19855), (637, 19858),

Gene: DRBy19_18 Start: 17429, Stop: 19966, Start Num: 43

Candidate Starts for DRBy19_18:

(Start: 43 @17429 has 236 MA's), (52, 17450), (Start: 60 @17471 has 1 MA's), (75, 17510), (109, 17579), (113, 17588), (115, 17591), (124, 17609), (143, 17657), (190, 17810), (195, 17819), (212, 17864), (229, 17942), (233, 17966), (246, 18032), (255, 18077), (260, 18107), (261, 18113), (263, 18131), (272, 18155), (274, 18164), (291, 18197), (293, 18203), (301, 18233), (315, 18272), (319, 18293), (323, 18308), (324, 18311), (347, 18425), (348, 18434), (349, 18440), (354, 18458), (362, 18479), (372, 18509), (375, 18521), (381, 18554), (399, 18665), (400, 18668), (405, 18695), (407, 18701), (420, 18755), (421, 18758), (443, 18845), (445, 18860), (448, 18875), (464, 18965), (467, 18986), (469, 18995), (482, 19055), (483, 19058), (491, 19094), (494, 19112), (499, 19124), (501, 19133), (507, 19160), (522, 19229), (525, 19247), (528, 19256), (530, 19268), (536, 19304), (544, 19334), (549, 19355), (556, 19379), (559, 19415), (565, 19469), (581, 19571), (601, 19649), (612, 19706), (616, 19730), (622, 19784), (626, 19832), (634, 19874), (639, 19907), (640, 19910),

Gene: DaWorst_20 Start: 17930, Stop: 20467, Start Num: 43

Candidate Starts for DaWorst_20:

(Start: 43 @17930 has 236 MA's), (52, 17951), (Start: 60 @17972 has 1 MA's), (75, 18011), (109, 18080), (113, 18089), (115, 18092), (124, 18110), (138, 18143), (143, 18158), (194, 18317), (195, 18320), (208, 18350), (212, 18365), (229, 18443), (232, 18464), (233, 18467), (246, 18533), (260, 18608), (261, 18614), (272, 18656), (273, 18662), (274, 18665), (291, 18698), (293, 18704), (301, 18734), (310, 18755), (316, 18785), (319, 18794), (342, 18902), (345, 18914), (346, 18923), (347, 18926), (348, 18935), (349, 18941), (352, 18956), (354, 18959), (362, 18980), (375, 19022), (381, 19055), (405, 19196), (407, 19202), (420, 19256), (421, 19259), (428, 19286), (443, 19346), (445, 19361), (447, 19373), (448, 19376), (459, 19442), (464, 19466), (467, 19487), (469, 19496), (482, 19556), (483, 19559), (491, 19595), (494, 19613), (499, 19625), (501, 19634), (507, 19661), (522, 19730), (525, 19748), (528, 19757), (530, 19769), (536, 19805), (544, 19835), (559, 19916), (565, 19970), (576, 20030), (581, 20072), (601, 20150), (612, 20207), (616, 20231), (622, 20285), (626, 20333), (634, 20375), (636, 20399), (637, 20402),

Gene: DaddyRickover_18 Start: 17568, Stop: 20105, Start Num: 43

Candidate Starts for DaddyRickover_18:

(35, 17556), (Start: 43 @17568 has 236 MA's), (52, 17589), (Start: 60 @17610 has 1 MA's), (75, 17649), (109, 17718), (113, 17727), (115, 17730), (124, 17748), (143, 17796), (160, 17844), (194, 17955), (195, 17958), (212, 18003), (229, 18081), (233, 18105), (246, 18171), (255, 18216), (260, 18246), (261, 18252), (263, 18270), (272, 18294), (274, 18303), (291, 18336), (293, 18342), (301, 18372), (315, 18411), (316, 18423), (319, 18432), (323, 18447), (324, 18450), (346, 18561), (347, 18564), (348, 18573), (349, 18579), (352, 18594), (354, 18597), (362, 18618), (372, 18648), (375, 18660), (381, 18693), (399, 18804), (400, 18807), (405, 18834), (407, 18840), (420, 18894), (421, 18897), (445, 18999), (447, 19011), (448, 19014), (459, 19080), (464, 19104), (467, 19125), (469, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (501, 19272), (507, 19299), (522, 19368), (525, 19386), (528, 19395), (530, 19407), (536, 19443), (549, 19494), (554, 19512), (559, 19554), (565, 19608), (581, 19710), (612, 19845), (616, 19869), (622, 19923), (631, 19992), (636, 20037), (637, 20040),

Gene: Daenerys_18 Start: 17400, Stop: 19937, Start Num: 43

Candidate Starts for Daenerys_18:

(35, 17388), (Start: 43 @17400 has 236 MA's), (52, 17421), (Start: 60 @17442 has 1 MA's), (75, 17481), (109, 17550), (113, 17559), (115, 17562), (124, 17580), (143, 17628), (160, 17676), (194, 17787), (195, 17790), (212, 17835), (229, 17913), (233, 17937), (246, 18003), (255, 18048), (260, 18078), (261, 18084), (263, 18102), (272, 18126), (274, 18135), (291, 18168), (293, 18174), (301, 18204), (315, 18243), (316, 18255), (319, 18264), (323, 18279), (324, 18282), (346, 18393), (347, 18396), (348, 18405), (349, 18411), (352, 18426), (354, 18429), (362, 18450), (372, 18480), (375, 18492), (381, 18525), (399, 18636), (400, 18639), (405, 18666), (407, 18672), (420, 18726), (421, 18729), (445, 18831), (447, 18843), (448, 18846), (459, 18912), (464, 18936), (467, 18957), (469, 18966), (482, 19026), (483, 19029), (491, 19065), (494, 19083), (501, 19104), (507, 19131), (522, 19200), (525, 19218), (528, 19227), (530, 19239), (536, 19275), (549, 19326), (554, 19344), (559, 19386), (565, 19440), (581, 19542), (612, 19677), (616, 19701), (622, 19755), (631, 19824), (636, 19869), (637, 19872),

Gene: Daikon_24 Start: 22021, Stop: 24417, Start Num: 80

Candidate Starts for Daikon_24:

(Start: 80 @22021 has 128 MA's), (157, 22198), (162, 22219), (220, 22366), (247, 22507), (254, 22540), (260, 22573), (268, 22609), (301, 22702), (319, 22762), (324, 22780), (357, 22936), (364, 22957), (390, 23077), (393, 23089), (399, 23134), (445, 23329), (448, 23344), (456, 23389), (458, 23404), (491, 23560), (494, 23578), (497, 23587), (525, 23716), (526, 23719), (564, 23929), (566, 23941), (591, 24055), (626, 24271), (637, 24355), (641, 24379), (643, 24388),

Gene: Dalmuri_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Dalmuri_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Damien_29 Start: 25682, Stop: 28525, Start Num: 15

Candidate Starts for Damien_29:

(Start: 15 @25682 has 8 MA's), (19, 25814), (21, 25826), (23, 25835), (38, 25904), (41, 25910), (65, 25970), (71, 25991), (89, 26039), (107, 26081), (118, 26105), (129, 26138), (145, 26174), (152, 26186), (178, 26279), (195, 26336), (207, 26375), (235, 26501), (247, 26570), (253, 26600), (261, 26642), (274, 26693), (310, 26783), (315, 26801), (332, 26882), (341, 26921), (345, 26942), (381, 27080), (387, 27119), (398, 27182), (421, 27284), (466, 27509), (545, 27872), (552, 27899), (593, 28142), (599, 28175), (605, 28199), (621, 28319), (632, 28397), (643, 28484), (645, 28499), (646, 28505),

Gene: Dante_18 Start: 17416, Stop: 19953, Start Num: 43

Candidate Starts for Dante_18:

(35, 17404), (Start: 43 @17416 has 236 MA's), (52, 17437), (Start: 60 @17458 has 1 MA's), (75, 17497), (109, 17566), (113, 17575), (115, 17578), (124, 17596), (138, 17629), (143, 17644), (160, 17692), (190, 17797), (194, 17803), (195, 17806), (211, 17848), (212, 17851), (229, 17929), (233, 17953), (246, 18019), (255, 18064), (260, 18094), (261, 18100), (263, 18118), (272, 18142), (274, 18151), (291, 18184), (293, 18190), (301, 18220), (315, 18259), (316, 18271), (319, 18280), (323, 18295), (324, 18298), (346, 18409), (347, 18412), (348, 18421), (349, 18427), (352, 18442), (354, 18445), (362, 18466), (372, 18496), (381, 18541), (399, 18652), (400, 18655), (405, 18682), (407, 18688), (420, 18742), (421, 18745), (445, 18847), (447, 18859), (448, 18862), (459, 18928), (464,

18952), (467, 18973), (469, 18982), (482, 19042), (483, 19045), (491, 19081), (494, 19099), (499, 19111), (501, 19120), (507, 19147), (522, 19216), (525, 19234), (528, 19243), (530, 19255), (536, 19291), (544, 19321), (549, 19342), (556, 19366), (559, 19402), (565, 19456), (576, 19516), (581, 19558), (601, 19636), (612, 19693), (616, 19717), (622, 19771), (626, 19819), (634, 19861), (636, 19885), (637, 19888),

Gene: DartGoblin_27 Start: 20819, Stop: 23251, Start Num: 88

Candidate Starts for DartGoblin_27:

(81, 20801), (Start: 88 @20819 has 96 MA's), (109, 20867), (132, 20918), (218, 21179), (223, 21200), (272, 21440), (276, 21470), (277, 21473), (303, 21566), (308, 21578), (316, 21611), (346, 21764), (356, 21821), (360, 21830), (375, 21881), (406, 22061), (410, 22076), (424, 22145), (428, 22157), (434, 22193), (440, 22220), (448, 22262), (456, 22301), (457, 22307), (458, 22316), (462, 22337), (475, 22397), (482, 22430), (484, 22445), (501, 22514), (509, 22556), (527, 22628), (529, 22637), (534, 22658), (548, 22730), (565, 22847), (594, 22994), (610, 23075), (619, 23150), (626, 23222),

Gene: DeadP_18 Start: 17430, Stop: 19967, Start Num: 43

Candidate Starts for DeadP_18:

(35, 17418), (Start: 43 @17430 has 236 MA's), (52, 17451), (Start: 60 @17472 has 1 MA's), (75, 17511), (109, 17580), (113, 17589), (115, 17592), (124, 17610), (138, 17643), (143, 17658), (160, 17706), (190, 17811), (194, 17817), (195, 17820), (211, 17862), (212, 17865), (229, 17943), (246, 18033), (255, 18078), (260, 18108), (261, 18114), (263, 18132), (272, 18156), (274, 18165), (291, 18198), (293, 18204), (301, 18234), (315, 18273), (316, 18285), (319, 18294), (323, 18309), (324, 18312), (346, 18423), (347, 18426), (348, 18435), (349, 18441), (352, 18456), (354, 18459), (362, 18480), (372, 18510), (375, 18522), (381, 18555), (399, 18666), (400, 18669), (405, 18696), (407, 18702), (420, 18756), (421, 18759), (443, 18846), (445, 18861), (447, 18873), (448, 18876), (459, 18942), (464, 18966), (467, 18987), (469, 18996), (482, 19056), (483, 19059), (491, 19095), (494, 19113), (499, 19125), (501, 19134), (507, 19161), (522, 19230), (525, 19248), (528, 19257), (530, 19269), (536, 19305), (544, 19335), (549, 19356), (556, 19380), (559, 19416), (565, 19470), (576, 19530), (581, 19572), (612, 19707), (616, 19731), (622, 19785), (626, 19833), (634, 19875), (636, 19899), (637, 19902),

Gene: Deb65_18 Start: 17397, Stop: 19934, Start Num: 43

Candidate Starts for Deb65_18:

(Start: 43 @17397 has 236 MA's), (52, 17418), (Start: 60 @17439 has 1 MA's), (75, 17478), (109, 17547), (113, 17556), (115, 17559), (124, 17577), (143, 17625), (160, 17673), (194, 17784), (195, 17787), (212, 17832), (229, 17910), (233, 17934), (246, 18000), (260, 18075), (261, 18081), (263, 18099), (272, 18123), (274, 18132), (291, 18165), (293, 18171), (301, 18201), (310, 18222), (316, 18252), (319, 18261), (342, 18369), (345, 18381), (346, 18390), (347, 18393), (349, 18408), (352, 18423), (354, 18426), (362, 18447), (375, 18489), (381, 18522), (399, 18633), (400, 18636), (405, 18663), (407, 18669), (420, 18723), (421, 18726), (428, 18753), (445, 18828), (447, 18840), (448, 18843), (459, 18909), (463, 18930), (464, 18933), (467, 18954), (469, 18963), (478, 19005), (482, 19023), (483, 19026), (489, 19056), (494, 19080), (499, 19092), (501, 19101), (522, 19197), (525, 19215), (528, 19224), (530, 19236), (536, 19272), (544, 19302), (547, 19311), (549, 19323), (559, 19383), (565, 19437), (576, 19497), (581, 19539), (612, 19674), (616, 19698), (622, 19752), (626, 19800), (634, 19842), (636, 19866), (637, 19869),

Gene: Deby_27 Start: 20846, Stop: 23278, Start Num: 88

Candidate Starts for Deby_27:

(Start: 88 @20846 has 96 MA's), (132, 20945), (218, 21206), (223, 21227), (263, 21434), (272, 21467), (276, 21497), (297, 21569), (303, 21593), (346, 21791), (353, 21836), (356, 21848), (360, 21857), (375, 21908), (406, 22088), (410, 22103), (424, 22172), (428, 22184), (440, 22247), (448, 22289), (456, 22328), (457, 22334), (458, 22343), (462, 22364), (475, 22424), (482, 22457), (484, 22472), (485, 22475), (498, 22529), (501, 22541), (527, 22655), (529, 22664), (534, 22685), (548, 22757),

(553, 22778), (565, 22874), (610, 23102), (626, 23249),

Gene: Demsculpinboyz_24 Start: 17086, Stop: 19635, Start Num: 27

Candidate Starts for Demsculpinboyz_24:

(24, 17077), (Start: 27 @17086 has 7 MA's), (Start: 43 @17146 has 236 MA's), (56, 17179), (58, 17182), (90, 17251), (104, 17281), (179, 17461), (184, 17476), (195, 17512), (197, 17518), (210, 17539), (215, 17563), (222, 17587), (252, 17734), (255, 17743), (260, 17767), (263, 17791), (272, 17815), (273, 17821), (279, 17842), (293, 17863), (301, 17893), (312, 17923), (316, 17944), (338, 18037), (341, 18052), (342, 18061), (344, 18070), (346, 18082), (347, 18085), (372, 18169), (373, 18172), (375, 18181), (380, 18208), (382, 18217), (388, 18256), (391, 18277), (393, 18280), (398, 18316), (401, 18337), (420, 18415), (421, 18418), (447, 18532), (462, 18619), (464, 18625), (467, 18646), (476, 18682), (487, 18736), (489, 18745), (506, 18823), (509, 18841), (518, 18877), (519, 18880), (522, 18898), (525, 18916), (536, 18973), (540, 18985), (556, 19048), (559, 19081), (569, 19168), (578, 19216), (580, 19240), (591, 19276), (600, 19315), (608, 19354), (612, 19378), (615, 19399), (626, 19495), (631, 19516), (638, 19576), (640, 19579), (643, 19606),

Gene: Devera_27 Start: 20893, Stop: 23325, Start Num: 88

Candidate Starts for Devera_27:

(Start: 88 @20893 has 96 MA's), (109, 20941), (132, 20992), (218, 21253), (223, 21274), (263, 21481), (272, 21514), (276, 21544), (297, 21616), (303, 21640), (316, 21685), (346, 21838), (356, 21895), (360, 21904), (371, 21940), (375, 21955), (406, 22135), (410, 22150), (424, 22219), (428, 22231), (440, 22294), (448, 22336), (456, 22375), (457, 22381), (458, 22390), (462, 22411), (475, 22471), (484, 22519), (498, 22576), (501, 22588), (509, 22630), (527, 22702), (529, 22711), (548, 22804), (553, 22825), (565, 22921), (575, 22975), (594, 23068), (610, 23149), (626, 23296),

Gene: DillTech15_18 Start: 17434, Stop: 19971, Start Num: 43

Candidate Starts for DillTech15_18:

(Start: 43 @17434 has 236 MA's), (52, 17455), (Start: 60 @17476 has 1 MA's), (75, 17515), (109, 17584), (113, 17593), (115, 17596), (124, 17614), (138, 17647), (143, 17662), (190, 17815), (195, 17824), (212, 17869), (232, 17968), (233, 17971), (246, 18037), (255, 18082), (260, 18112), (261, 18118), (263, 18136), (272, 18160), (273, 18166), (274, 18169), (291, 18202), (293, 18208), (301, 18238), (315, 18277), (316, 18289), (319, 18298), (323, 18313), (324, 18316), (346, 18427), (347, 18430), (348, 18439), (349, 18445), (352, 18460), (354, 18463), (362, 18484), (372, 18514), (375, 18526), (381, 18559), (399, 18670), (400, 18673), (405, 18700), (407, 18706), (420, 18760), (421, 18763), (443, 18850), (445, 18865), (447, 18877), (448, 18880), (459, 18946), (464, 18970), (467, 18991), (469, 19000), (482, 19060), (483, 19063), (491, 19099), (494, 19117), (499, 19129), (501, 19138), (507, 19165), (522, 19234), (525, 19252), (528, 19261), (530, 19273), (536, 19309), (544, 19339), (547, 19348), (549, 19360), (556, 19384), (559, 19420), (565, 19474), (576, 19534), (581, 19576), (612, 19711), (616, 19735), (622, 19789), (626, 19837), (634, 19879), (636, 19903), (637, 19906),

Gene: DirtMcgirt_19 Start: 17221, Stop: 19758, Start Num: 43

Candidate Starts for DirtMcgirt_19:

(35, 17209), (Start: 43 @17221 has 236 MA's), (52, 17242), (Start: 60 @17263 has 1 MA's), (75, 17302), (109, 17371), (113, 17380), (115, 17383), (124, 17401), (138, 17434), (143, 17449), (160, 17497), (190, 17602), (195, 17611), (211, 17653), (212, 17656), (229, 17734), (233, 17758), (246, 17824), (255, 17869), (260, 17899), (261, 17905), (263, 17923), (272, 17947), (274, 17956), (291, 17989), (293, 17995), (301, 18025), (315, 18064), (316, 18076), (319, 18085), (323, 18100), (324, 18103), (346, 18214), (348, 18226), (349, 18232), (352, 18247), (354, 18250), (362, 18271), (372, 18301), (375, 18313), (381, 18346), (399, 18457), (400, 18460), (405, 18487), (407, 18493), (420, 18547), (421, 18550), (428, 18577), (445, 18652), (447, 18664), (448, 18667), (459, 18733), (464, 18757), (469, 18787), (478, 18829), (482, 18847), (483, 18850), (491, 18886), (494, 18904), (501, 18925), (507, 18952), (522, 19021), (525, 19039), (528, 19048), (530, 19060), (536, 19096), (544,

19126), (547, 19135), (549, 19147), (559, 19207), (565, 19261), (576, 19321), (581, 19363), (601, 19441), (612, 19498), (616, 19522), (622, 19576), (626, 19624), (634, 19666), (636, 19690), (637, 19693),

Gene: DmpstrDiver_37 Start: 30383, Stop: 32890, Start Num: 43

Candidate Starts for DmpstrDiver_37:

(29, 30326), (Start: 43 @30383 has 236 MA's), (124, 30578), (138, 30614), (143, 30629), (160, 30677), (184, 30731), (195, 30767), (197, 30773), (198, 30776), (210, 30794), (212, 30806), (215, 30818), (223, 30845), (243, 30950), (252, 30989), (255, 30998), (260, 31022), (261, 31028), (263, 31046), (270, 31064), (274, 31079), (275, 31088), (279, 31097), (291, 31112), (299, 31139), (301, 31148), (315, 31187), (316, 31199), (319, 31208), (338, 31292), (354, 31373), (364, 31403), (365, 31406), (375, 31436), (380, 31463), (382, 31472), (390, 31523), (391, 31532), (393, 31535), (398, 31571), (401, 31592), (411, 31628), (446, 31781), (456, 31835), (464, 31880), (466, 31898), (467, 31901), (476, 31940), (506, 32087), (508, 32096), (523, 32165), (525, 32180), (559, 32345), (569, 32432), (578, 32480), (591, 32531), (608, 32609), (638, 32831), (640, 32834), (643, 32861),

Gene: DoRead_18 Start: 17366, Stop: 19891, Start Num: 43

Candidate Starts for DoRead_18:

(Start: 43 @17366 has 236 MA's), (52, 17387), (83, 17456), (109, 17516), (113, 17525), (115, 17528), (124, 17546), (143, 17594), (160, 17642), (194, 17753), (195, 17756), (202, 17777), (210, 17789), (212, 17801), (229, 17879), (240, 17945), (247, 17978), (258, 18032), (260, 18044), (272, 18092), (273, 18098), (274, 18101), (275, 18110), (294, 18143), (308, 18182), (310, 18185), (314, 18200), (321, 18230), (322, 18236), (323, 18239), (324, 18242), (330, 18269), (333, 18287), (334, 18290), (344, 18341), (345, 18344), (348, 18365), (349, 18371), (350, 18374), (352, 18386), (354, 18389), (363, 18416), (372, 18440), (375, 18452), (390, 18539), (400, 18602), (401, 18611), (407, 18635), (434, 18740), (435, 18743), (445, 18794), (446, 18800), (447, 18806), (448, 18809), (456, 18854), (458, 18869), (463, 18896), (467, 18920), (469, 18929), (482, 18989), (483, 18992), (484, 19004), (494, 19046), (499, 19058), (508, 19100), (538, 19244), (554, 19307), (561, 19382), (603, 19583), (633, 19793), (639, 19832), (640, 19835),

Gene: DocMcStuffins_19 Start: 17271, Stop: 19796, Start Num: 43

Candidate Starts for DocMcStuffins_19:

(Start: 43 @17271 has 236 MA's), (52, 17292), (Start: 60 @17313 has 1 MA's), (75, 17352), (109, 17421), (113, 17430), (115, 17433), (124, 17451), (138, 17484), (143, 17499), (160, 17547), (194, 17658), (195, 17661), (212, 17706), (229, 17784), (233, 17808), (246, 17874), (247, 17883), (260, 17949), (261, 17955), (263, 17973), (272, 17997), (273, 18003), (274, 18006), (291, 18039), (293, 18045), (301, 18075), (310, 18096), (319, 18135), (323, 18150), (325, 18156), (354, 18300), (372, 18351), (392, 18462), (400, 18513), (404, 18537), (428, 18630), (439, 18675), (442, 18684), (445, 18705), (447, 18717), (448, 18720), (456, 18765), (464, 18810), (466, 18828), (467, 18831), (478, 18882), (489, 18933), (491, 18939), (494, 18957), (499, 18969), (501, 18978), (508, 19011), (525, 19092), (540, 19161), (547, 19188), (553, 19215), (560, 19266), (565, 19314), (615, 19557), (626, 19662), (631, 19683), (639, 19737), (642, 19761),

Gene: DoctorDiddles_26 Start: 21446, Stop: 23842, Start Num: 80

Candidate Starts for DoctorDiddles_26:

(Start: 80 @21446 has 128 MA's), (157, 21623), (162, 21644), (220, 21791), (254, 21965), (260, 21998), (268, 22034), (301, 22127), (319, 22187), (324, 22205), (350, 22337), (364, 22382), (393, 22514), (399, 22559), (416, 22619), (442, 22733), (445, 22754), (453, 22793), (456, 22814), (458, 22829), (489, 22979), (491, 22985), (494, 23003), (508, 23057), (525, 23141), (547, 23234), (591, 23480), (626, 23696), (637, 23780), (643, 23813),

Gene: Dole_27 Start: 20895, Stop: 23327, Start Num: 88

Candidate Starts for Dole_27:

(Start: 88 @20895 has 96 MA's), (109, 20943), (132, 20994), (218, 21255), (223, 21276), (263, 21483), (272, 21516), (276, 21546), (297, 21618), (303, 21642), (316, 21687), (346, 21840), (356, 21897), (360, 21906), (371, 21942), (375, 21957), (406, 22137), (410, 22152), (424, 22221), (428, 22233), (440, 22296), (448, 22338), (456, 22377), (457, 22383), (458, 22392), (462, 22413), (475, 22473), (484, 22521), (498, 22578), (501, 22590), (509, 22632), (527, 22704), (529, 22713), (548, 22806), (553, 22827), (565, 22923), (575, 22977), (594, 23070), (610, 23151), (626, 23298),

Gene: Donkeykong_18 Start: 17574, Stop: 20111, Start Num: 43

Candidate Starts for Donkeykong_18:

(35, 17562), (Start: 43 @17574 has 236 MA's), (52, 17595), (Start: 60 @17616 has 1 MA's), (75, 17655), (109, 17724), (113, 17733), (115, 17736), (124, 17754), (138, 17787), (143, 17802), (160, 17850), (194, 17961), (195, 17964), (208, 17994), (211, 18006), (212, 18009), (229, 18087), (233, 18111), (246, 18177), (255, 18222), (260, 18252), (261, 18258), (263, 18276), (272, 18300), (274, 18309), (291, 18342), (293, 18348), (301, 18378), (315, 18417), (316, 18429), (319, 18438), (323, 18453), (324, 18456), (346, 18567), (347, 18570), (348, 18579), (349, 18585), (352, 18600), (354, 18603), (362, 18624), (372, 18654), (375, 18666), (381, 18699), (393, 18765), (399, 18810), (400, 18813), (405, 18840), (407, 18846), (420, 18900), (421, 18903), (445, 19005), (447, 19017), (448, 19020), (459, 19086), (464, 19110), (467, 19131), (469, 19140), (482, 19200), (483, 19203), (491, 19239), (494, 19257), (499, 19269), (501, 19278), (507, 19305), (522, 19374), (525, 19392), (528, 19401), (530, 19413), (536, 19449), (544, 19479), (549, 19500), (556, 19524), (559, 19560), (565, 19614), (576, 19674), (581, 19716), (601, 19794), (612, 19851), (616, 19875), (622, 19929), (626, 19977), (634, 20019), (636, 20043), (637, 20046),

Gene: Doomphist_18 Start: 17534, Stop: 20071, Start Num: 43

Candidate Starts for Doomphist_18:

(Start: 43 @17534 has 236 MA's), (52, 17555), (Start: 60 @17576 has 1 MA's), (75, 17615), (109, 17684), (113, 17693), (115, 17696), (124, 17714), (143, 17762), (194, 17921), (195, 17924), (212, 17969), (229, 18047), (233, 18071), (246, 18137), (260, 18212), (261, 18218), (263, 18236), (272, 18260), (273, 18266), (274, 18269), (291, 18302), (293, 18308), (301, 18338), (310, 18359), (316, 18389), (319, 18398), (342, 18506), (345, 18518), (346, 18527), (347, 18530), (349, 18545), (352, 18560), (354, 18563), (362, 18584), (375, 18626), (381, 18659), (399, 18770), (400, 18773), (405, 18800), (407, 18806), (420, 18860), (421, 18863), (428, 18890), (445, 18965), (447, 18977), (448, 18980), (459, 19046), (463, 19067), (464, 19070), (467, 19091), (469, 19100), (482, 19160), (483, 19163), (491, 19199), (494, 19217), (499, 19229), (501, 19238), (507, 19265), (521, 19322), (522, 19334), (525, 19352), (528, 19361), (530, 19373), (536, 19409), (544, 19439), (547, 19448), (549, 19460), (559, 19520), (565, 19574), (576, 19634), (581, 19676), (612, 19811), (616, 19835), (622, 19889), (626, 19937), (634, 19979), (636, 20003), (637, 20006),

Gene: Doomslug_20 Start: 17255, Stop: 19792, Start Num: 43

Candidate Starts for Doomslug_20:

(35, 17243), (Start: 43 @17255 has 236 MA's), (52, 17276), (Start: 60 @17297 has 1 MA's), (75, 17336), (109, 17405), (113, 17414), (115, 17417), (124, 17435), (138, 17468), (143, 17483), (160, 17531), (194, 17642), (195, 17645), (208, 17675), (211, 17687), (212, 17690), (229, 17768), (233, 17792), (246, 17858), (255, 17903), (260, 17933), (261, 17939), (263, 17957), (272, 17981), (274, 17990), (291, 18023), (293, 18029), (301, 18059), (315, 18098), (316, 18110), (319, 18119), (323, 18134), (324, 18137), (346, 18248), (347, 18251), (348, 18260), (349, 18266), (352, 18281), (354, 18284), (362, 18305), (372, 18335), (375, 18347), (381, 18380), (399, 18491), (400, 18494), (405, 18521), (407, 18527), (420, 18581), (421, 18584), (443, 18671), (445, 18686), (447, 18698), (448, 18701), (459, 18767), (464, 18791), (467, 18812), (469, 18821), (482, 18881), (483, 18884), (491, 18920), (494, 18938), (499, 18950), (501, 18959), (507, 18986), (522, 19055), (525, 19073), (528, 19082), (530, 19094), (536, 19130), (544, 19160), (549, 19181), (556, 19205), (559, 19241), (565, 19295), (576, 19355), (581, 19397), (601, 19475), (612, 19532), (616, 19556), (622, 19610), (626, 19658), (634, 19700), (636, 19724), (637, 19727),

Gene: Dorothy_18 Start: 17358, Stop: 19895, Start Num: 43

Candidate Starts for Dorothy_18:

(35, 17346), (Start: 43 @17358 has 236 MA's), (52, 17379), (Start: 60 @17400 has 1 MA's), (75, 17439), (109, 17508), (113, 17517), (115, 17520), (124, 17538), (143, 17586), (160, 17634), (194, 17745), (195, 17748), (212, 17793), (229, 17871), (233, 17895), (246, 17961), (255, 18006), (260, 18036), (261, 18042), (263, 18060), (272, 18084), (274, 18093), (291, 18126), (293, 18132), (301, 18162), (315, 18201), (316, 18213), (319, 18222), (323, 18237), (324, 18240), (346, 18351), (347, 18354), (348, 18363), (349, 18369), (352, 18384), (354, 18387), (362, 18408), (372, 18438), (375, 18450), (381, 18483), (399, 18594), (400, 18597), (405, 18624), (407, 18630), (420, 18684), (421, 18687), (445, 18789), (447, 18801), (448, 18804), (459, 18870), (464, 18894), (467, 18915), (469, 18924), (482, 18984), (483, 18987), (491, 19023), (494, 19041), (501, 19062), (507, 19089), (522, 19158), (525, 19176), (528, 19185), (530, 19197), (536, 19233), (549, 19284), (554, 19302), (559, 19344), (565, 19398), (581, 19500), (612, 19635), (616, 19659), (622, 19713), (631, 19782), (636, 19827), (637, 19830),

Gene: DosHalletts_19 Start: 17327, Stop: 19879, Start Num: 43

Candidate Starts for DosHalletts_19:

(Start: 43 @17327 has 236 MA's), (83, 17417), (109, 17477), (113, 17486), (115, 17489), (124, 17507), (143, 17555), (159, 17600), (194, 17714), (195, 17717), (199, 17729), (209, 17750), (211, 17759), (212, 17762), (229, 17840), (240, 17906), (247, 17939), (255, 17975), (259, 17999), (273, 18059), (274, 18062), (279, 18080), (308, 18143), (310, 18146), (315, 18164), (319, 18185), (324, 18203), (330, 18230), (334, 18251), (341, 18284), (348, 18326), (349, 18332), (350, 18335), (354, 18350), (363, 18377), (364, 18380), (372, 18401), (375, 18413), (381, 18446), (397, 18539), (420, 18647), (426, 18671), (428, 18677), (433, 18695), (434, 18698), (439, 18722), (445, 18752), (450, 18776), (456, 18812), (457, 18818), (458, 18827), (463, 18854), (473, 18917), (478, 18941), (479, 18956), (489, 18998), (502, 19049), (523, 19145), (525, 19160), (528, 19169), (533, 19193), (547, 19256), (556, 19292), (609, 19598), (616, 19643), (626, 19745),

Gene: DotProduct_18 Start: 17408, Stop: 19939, Start Num: 43

Candidate Starts for DotProduct_18:

(35, 17396), (Start: 43 @17408 has 236 MA's), (52, 17429), (Start: 60 @17450 has 1 MA's), (75, 17489), (109, 17558), (113, 17567), (115, 17570), (124, 17588), (138, 17621), (143, 17636), (160, 17678), (194, 17789), (195, 17792), (210, 17825), (211, 17834), (212, 17837), (229, 17915), (246, 18005), (255, 18050), (260, 18080), (261, 18086), (263, 18104), (272, 18128), (274, 18137), (291, 18170), (293, 18176), (301, 18206), (316, 18257), (319, 18266), (323, 18281), (324, 18284), (346, 18395), (347, 18398), (348, 18407), (349, 18413), (352, 18428), (354, 18431), (362, 18452), (372, 18482), (375, 18494), (381, 18527), (399, 18638), (400, 18641), (407, 18674), (420, 18728), (421, 18731), (445, 18833), (447, 18845), (448, 18848), (459, 18914), (464, 18938), (467, 18959), (469, 18968), (482, 19028), (483, 19031), (491, 19067), (494, 19085), (499, 19097), (501, 19106), (507, 19133), (522, 19202), (525, 19220), (528, 19229), (530, 19241), (536, 19277), (544, 19307), (549, 19328), (556, 19352), (559, 19388), (565, 19442), (576, 19502), (581, 19544), (601, 19622), (612, 19679), (616, 19703), (622, 19757), (626, 19805), (634, 19847), (636, 19871), (637, 19874),

Gene: Doug_19 Start: 17950, Stop: 20487, Start Num: 43

Candidate Starts for Doug_19:

(35, 17938), (Start: 43 @17950 has 236 MA's), (52, 17971), (Start: 60 @17992 has 1 MA's), (75, 18031), (109, 18100), (113, 18109), (115, 18112), (124, 18130), (138, 18163), (143, 18178), (160, 18226), (190, 18331), (194, 18337), (195, 18340), (211, 18382), (212, 18385), (229, 18463), (246, 18553), (255, 18598), (260, 18628), (261, 18634), (263, 18652), (272, 18676), (274, 18685), (291, 18718), (293, 18724), (301, 18754), (315, 18793), (316, 18805), (319, 18814), (323, 18829), (324, 18832), (346, 18943), (347, 18946), (348, 18955), (349, 18961), (352, 18976), (354, 18979), (362, 19000), (372, 19030), (375, 19042), (381, 19075), (393, 19141), (399, 19186), (400, 19189), (405,

19216), (407, 19222), (420, 19276), (421, 19279), (443, 19366), (445, 19381), (447, 19393), (448, 19396), (459, 19462), (464, 19486), (467, 19507), (469, 19516), (482, 19576), (483, 19579), (491, 19615), (494, 19633), (499, 19645), (501, 19654), (507, 19681), (522, 19750), (525, 19768), (528, 19777), (530, 19789), (536, 19825), (544, 19855), (549, 19876), (556, 19900), (559, 19936), (565, 19990), (576, 20050), (581, 20092), (601, 20170), (612, 20227), (616, 20251), (622, 20305), (626, 20353), (636, 20419), (637, 20422),

Gene: DrDrey_27 Start: 22776, Stop: 25172, Start Num: 80

Candidate Starts for DrDrey_27:

(Start: 80 @22776 has 128 MA's), (157, 22953), (162, 22974), (220, 23121), (254, 23295), (260, 23328), (268, 23364), (301, 23457), (319, 23517), (324, 23535), (350, 23667), (364, 23712), (393, 23844), (399, 23889), (416, 23949), (442, 24063), (445, 24084), (453, 24123), (456, 24144), (458, 24159), (489, 24309), (491, 24315), (494, 24333), (508, 24387), (525, 24471), (547, 24564), (591, 24810), (626, 25026), (637, 25110), (643, 25143),

Gene: DrHayes_27 Start: 20840, Stop: 23272, Start Num: 88

Candidate Starts for DrHayes_27:

(81, 20822), (Start: 88 @20840 has 96 MA's), (109, 20888), (132, 20939), (218, 21200), (223, 21221), (271, 21458), (272, 21461), (276, 21491), (277, 21494), (297, 21563), (303, 21587), (304, 21593), (308, 21599), (316, 21632), (346, 21785), (356, 21842), (360, 21851), (375, 21902), (406, 22082), (410, 22097), (424, 22166), (428, 22178), (434, 22214), (440, 22241), (448, 22283), (456, 22322), (457, 22328), (458, 22337), (462, 22358), (475, 22418), (482, 22451), (485, 22469), (501, 22535), (509, 22577), (527, 22649), (529, 22658), (534, 22679), (548, 22751), (565, 22868), (594, 23015), (610, 23096), (619, 23171), (626, 23243),

Gene: DrLupo_38 Start: 27172, Stop: 30258, Start Num: 2

Candidate Starts for DrLupo_38:

(1, 27145), (Start: 2 @27172 has 2 MA's), (3, 27175), (6, 27325), (7, 27328), (10, 27403), (11, 27412), (12, 27415), (14, 27484), (16, 27520), (Start: 17 @27595 has 1 MA's), (32, 27682), (40, 27718), (44, 27727), (53, 27748), (73, 27817), (Start: 80 @27841 has 128 MA's), (98, 27883), (99, 27886), (111, 27916), (130, 27958), (154, 28009), (177, 28090), (180, 28102), (198, 28162), (202, 28183), (212, 28222), (230, 28303), (237, 28336), (262, 28468), (273, 28507), (280, 28531), (288, 28546), (316, 28648), (320, 28660), (323, 28672), (324, 28675), (364, 28852), (375, 28885), (379, 28909), (389, 28966), (425, 29152), (438, 29218), (448, 29266), (457, 29317), (460, 29341), (461, 29347), (478, 29419), (482, 29443), (484, 29458), (501, 29527), (591, 29998), (603, 30052), (623, 30196),

Gene: Drago_19 Start: 17219, Stop: 19756, Start Num: 43

Candidate Starts for Drago_19:

(35, 17207), (Start: 43 @17219 has 236 MA's), (52, 17240), (Start: 60 @17261 has 1 MA's), (75, 17300), (109, 17369), (113, 17378), (115, 17381), (124, 17399), (138, 17432), (143, 17447), (160, 17495), (190, 17600), (195, 17609), (211, 17651), (212, 17654), (229, 17732), (233, 17756), (246, 17822), (255, 17867), (260, 17897), (261, 17903), (263, 17921), (272, 17945), (274, 17954), (291, 17987), (293, 17993), (301, 18023), (315, 18062), (316, 18074), (319, 18083), (323, 18098), (324, 18101), (346, 18212), (348, 18224), (349, 18230), (352, 18245), (354, 18248), (362, 18269), (372, 18299), (375, 18311), (381, 18344), (393, 18410), (399, 18455), (400, 18458), (405, 18485), (407, 18491), (420, 18545), (421, 18548), (428, 18575), (445, 18650), (447, 18662), (448, 18665), (459, 18731), (464, 18755), (469, 18785), (478, 18827), (482, 18845), (483, 18848), (491, 18884), (494, 18902), (501, 18923), (507, 18950), (522, 19019), (525, 19037), (528, 19046), (530, 19058), (536, 19094), (544, 19124), (547, 19133), (549, 19145), (559, 19205), (565, 19259), (576, 19319), (581, 19361), (601, 19439), (612, 19496), (616, 19520), (622, 19574), (626, 19622), (634, 19664), (636, 19688), (637, 19691),

Gene: Duke13_36 Start: 29781, Stop: 32336, Start Num: 43

Candidate Starts for Duke13_36:

(28, 29724), (Start: 43 @29781 has 236 MA's), (124, 29976), (138, 30012), (143, 30027), (160, 30075), (194, 30186), (195, 30189), (212, 30234), (229, 30312), (233, 30336), (246, 30402), (255, 30447), (260, 30477), (261, 30483), (263, 30501), (272, 30525), (274, 30534), (291, 30567), (293, 30573), (301, 30603), (315, 30642), (316, 30654), (319, 30663), (323, 30678), (324, 30681), (346, 30792), (347, 30795), (348, 30804), (349, 30810), (352, 30825), (354, 30828), (362, 30849), (372, 30879), (375, 30891), (381, 30924), (399, 31035), (400, 31038), (405, 31065), (407, 31071), (420, 31125), (421, 31128), (445, 31230), (447, 31242), (448, 31245), (459, 31311), (464, 31335), (467, 31356), (469, 31365), (482, 31425), (483, 31428), (491, 31464), (494, 31482), (501, 31503), (507, 31530), (522, 31599), (525, 31617), (528, 31626), (530, 31638), (536, 31674), (549, 31725), (554, 31743), (559, 31785), (565, 31839), (581, 31941), (612, 32076), (616, 32100), (622, 32154), (631, 32223), (636, 32268), (637, 32271),

Gene: Dumbo_26 Start: 21751, Stop: 24147, Start Num: 80

Candidate Starts for Dumbo_26:

(Start: 80 @21751 has 128 MA's), (157, 21928), (162, 21949), (220, 22096), (254, 22270), (260, 22303), (268, 22339), (301, 22432), (319, 22492), (324, 22510), (350, 22642), (364, 22687), (393, 22819), (399, 22864), (416, 22924), (442, 23038), (445, 23059), (453, 23098), (456, 23119), (458, 23134), (489, 23284), (491, 23290), (494, 23308), (508, 23362), (525, 23446), (547, 23539), (591, 23785), (626, 24001), (637, 24085), (643, 24118),

Gene: Durfee_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Durfee_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Dusk_25 Start: 21943, Stop: 24339, Start Num: 80

Candidate Starts for Dusk_25:

(Start: 80 @21943 has 128 MA's), (157, 22120), (162, 22141), (220, 22288), (247, 22429), (254, 22462), (260, 22495), (268, 22531), (301, 22624), (319, 22684), (324, 22702), (341, 22783), (393, 23011), (399, 23056), (445, 23251), (446, 23257), (448, 23266), (456, 23311), (458, 23326), (491, 23482), (494, 23500), (497, 23509), (509, 23563), (525, 23638), (526, 23641), (564, 23851), (566, 23863), (591, 23977), (626, 24193), (637, 24277), (641, 24301), (643, 24310),

Gene: Dylan_58 Start: 36190, Stop: 38700, Start Num: 57

Candidate Starts for Dylan_58:

(Start: 57 @36190 has 33 MA's), (69, 36223), (93, 36292), (95, 36295), (106, 36319), (115, 36343), (126, 36367), (138, 36400), (200, 36607), (203, 36619), (204, 36622), (237, 36769), (240, 36799), (246, 36823), (255, 36853), (256, 36856), (260, 36883), (263, 36907), (273, 36937), (296, 36994), (315, 37054), (316, 37066), (323, 37090), (324, 37093), (332, 37135), (352, 37231), (354, 37234), (413, 37489), (445, 37633), (456, 37693), (466, 37765), (467, 37768), (488, 37864), (525, 38038), (530, 38059), (552, 38152), (555, 38164), (565, 38254), (579, 38329), (598, 38374), (630, 38575), (635, 38629), (640, 38644),

Gene: Easy2Say_28 Start: 23534, Stop: 25930, Start Num: 80

Candidate Starts for Easy2Say_28:

(Start: 80 @23534 has 128 MA's), (157, 23711), (162, 23732), (220, 23879), (247, 24020), (254, 24053), (260, 24086), (268, 24122), (301, 24215), (319, 24275), (324, 24293), (350, 24425), (364, 24470), (393, 24602), (399, 24647), (416, 24707), (442, 24821), (445, 24842), (453, 24881), (456,

24902), (458, 24917), (489, 25067), (491, 25073), (494, 25091), (508, 25145), (525, 25229), (547, 25322), (591, 25568), (626, 25784), (637, 25868), (643, 25901),

Gene: Efra2_27 Start: 20082, Stop: 22514, Start Num: 88

Candidate Starts for Efra2_27:

(Start: 88 @20082 has 96 MA's), (109, 20130), (110, 20133), (115, 20142), (218, 20442), (223, 20463), (272, 20703), (297, 20805), (303, 20829), (304, 20835), (316, 20874), (346, 21027), (356, 21084), (360, 21093), (375, 21144), (407, 21330), (410, 21339), (412, 21345), (420, 21390), (424, 21408), (440, 21483), (448, 21525), (456, 21564), (457, 21570), (458, 21579), (462, 21600), (471, 21648), (482, 21693), (484, 21708), (501, 21777), (509, 21819), (529, 21900), (548, 21993), (553, 22014), (565, 22110), (610, 22338), (617, 22392), (619, 22413), (626, 22485), (629, 22503),

Gene: Eish_18 Start: 17540, Stop: 20077, Start Num: 43

Candidate Starts for Eish_18:

(Start: 43 @17540 has 236 MA's), (52, 17561), (Start: 60 @17582 has 1 MA's), (75, 17621), (109, 17690), (113, 17699), (115, 17702), (124, 17720), (138, 17753), (143, 17768), (160, 17816), (190, 17921), (195, 17930), (212, 17975), (229, 18053), (233, 18077), (246, 18143), (260, 18218), (261, 18224), (263, 18242), (272, 18266), (273, 18272), (274, 18275), (291, 18308), (293, 18314), (301, 18344), (310, 18365), (316, 18395), (319, 18404), (342, 18512), (345, 18524), (346, 18533), (347, 18536), (348, 18545), (349, 18551), (352, 18566), (354, 18569), (362, 18590), (372, 18620), (375, 18632), (381, 18665), (382, 18668), (393, 18731), (405, 18806), (407, 18812), (420, 18866), (421, 18869), (428, 18896), (445, 18971), (447, 18983), (448, 18986), (459, 19052), (467, 19097), (469, 19106), (482, 19166), (483, 19169), (491, 19205), (494, 19223), (501, 19244), (522, 19340), (525, 19358), (528, 19367), (530, 19379), (536, 19415), (544, 19445), (559, 19526), (565, 19580), (581, 19682), (612, 19817), (616, 19841), (622, 19895), (626, 19943), (634, 19985), (636, 20009), (637, 20012),

Gene: EleanorGeorge_18 Start: 17568, Stop: 20105, Start Num: 43

Candidate Starts for EleanorGeorge_18:

(35, 17556), (Start: 43 @17568 has 236 MA's), (52, 17589), (Start: 60 @17610 has 1 MA's), (75, 17649), (109, 17718), (113, 17727), (115, 17730), (124, 17748), (138, 17781), (143, 17796), (160, 17844), (194, 17955), (195, 17958), (208, 17988), (211, 18000), (212, 18003), (229, 18081), (233, 18105), (246, 18171), (255, 18216), (260, 18246), (261, 18252), (263, 18270), (272, 18294), (274, 18303), (291, 18336), (293, 18342), (301, 18372), (315, 18411), (316, 18423), (319, 18432), (323, 18447), (324, 18450), (346, 18561), (347, 18564), (348, 18573), (349, 18579), (352, 18594), (354, 18597), (362, 18618), (372, 18648), (375, 18660), (381, 18693), (399, 18804), (400, 18807), (405, 18834), (407, 18840), (420, 18894), (421, 18897), (443, 18984), (445, 18999), (447, 19011), (448, 19014), (459, 19080), (464, 19104), (467, 19125), (469, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (499, 19263), (501, 19272), (507, 19299), (522, 19368), (525, 19386), (528, 19395), (530, 19407), (536, 19443), (544, 19473), (549, 19494), (556, 19518), (559, 19554), (565, 19608), (576, 19668), (581, 19710), (601, 19788), (612, 19845), (616, 19869), (622, 19923), (626, 19971), (634, 20013), (636, 20037), (637, 20040),

Gene: Elite2014_25 Start: 21491, Stop: 23887, Start Num: 80

Candidate Starts for Elite2014_25:

(Start: 80 @21491 has 128 MA's), (157, 21668), (162, 21689), (220, 21836), (254, 22010), (260, 22043), (268, 22079), (301, 22172), (319, 22232), (324, 22250), (350, 22382), (364, 22427), (393, 22559), (399, 22604), (416, 22664), (442, 22778), (445, 22799), (453, 22838), (456, 22859), (458, 22874), (489, 23024), (491, 23030), (494, 23048), (508, 23102), (525, 23186), (547, 23279), (591, 23525), (626, 23741), (637, 23825), (643, 23858),

Gene: Elph10_27 Start: 21754, Stop: 24150, Start Num: 80

Candidate Starts for Elph10_27:

(Start: 80 @21754 has 128 MA's), (157, 21931), (162, 21952), (220, 22099), (254, 22273), (260, 22306), (268, 22342), (301, 22435), (319, 22495), (324, 22513), (350, 22645), (364, 22690), (393, 22822), (399, 22867), (416, 22927), (442, 23041), (445, 23062), (453, 23101), (456, 23122), (458, 23137), (489, 23287), (491, 23293), (494, 23311), (508, 23365), (525, 23449), (547, 23542), (591, 23788), (626, 24004), (637, 24088), (643, 24121),

Gene: Emerson_27 Start: 20872, Stop: 23304, Start Num: 88

Candidate Starts for Emerson_27:

(Start: 88 @20872 has 96 MA's), (132, 20971), (218, 21232), (223, 21253), (263, 21460), (272, 21493), (276, 21523), (297, 21595), (303, 21619), (316, 21664), (346, 21817), (353, 21862), (356, 21874), (360, 21883), (375, 21934), (406, 22114), (410, 22129), (424, 22198), (428, 22210), (440, 22273), (448, 22315), (456, 22354), (457, 22360), (458, 22369), (462, 22390), (475, 22450), (501, 22567), (509, 22609), (527, 22681), (529, 22690), (534, 22711), (548, 22783), (553, 22804), (565, 22900), (576, 22963), (610, 23128), (626, 23275),

Gene: EmiMonkey_18 Start: 17352, Stop: 19889, Start Num: 43

Candidate Starts for EmiMonkey_18:

(Start: 43 @17352 has 236 MA's), (52, 17373), (Start: 60 @17394 has 1 MA's), (75, 17433), (109, 17502), (113, 17511), (115, 17514), (124, 17532), (143, 17580), (190, 17733), (195, 17742), (212, 17787), (232, 17886), (233, 17889), (246, 17955), (260, 18030), (261, 18036), (263, 18054), (272, 18078), (273, 18084), (274, 18087), (291, 18120), (293, 18126), (301, 18156), (310, 18177), (316, 18207), (319, 18216), (323, 18231), (324, 18234), (346, 18345), (347, 18348), (348, 18357), (349, 18363), (352, 18378), (354, 18381), (362, 18402), (372, 18432), (375, 18444), (381, 18477), (399, 18588), (400, 18591), (405, 18618), (407, 18624), (420, 18678), (421, 18681), (445, 18783), (447, 18795), (448, 18798), (459, 18864), (464, 18888), (467, 18909), (469, 18918), (482, 18978), (483, 18981), (491, 19017), (494, 19035), (499, 19047), (501, 19056), (507, 19083), (521, 19140), (522, 19152), (525, 19170), (528, 19179), (530, 19191), (536, 19227), (544, 19257), (547, 19266), (549, 19278), (559, 19338), (565, 19392), (576, 19452), (581, 19494), (612, 19629), (616, 19653), (622, 19707), (626, 19755), (634, 19797), (636, 19821), (637, 19824),

Gene: Emma_18 Start: 17448, Stop: 19985, Start Num: 43

Candidate Starts for Emma_18:

(35, 17436), (Start: 43 @17448 has 236 MA's), (52, 17469), (Start: 60 @17490 has 1 MA's), (75, 17529), (109, 17598), (113, 17607), (115, 17610), (124, 17628), (138, 17661), (143, 17676), (160, 17724), (194, 17835), (195, 17838), (208, 17868), (212, 17883), (229, 17961), (233, 17985), (246, 18051), (255, 18096), (260, 18126), (261, 18132), (263, 18150), (272, 18174), (274, 18183), (291, 18216), (293, 18222), (301, 18252), (315, 18291), (316, 18303), (319, 18312), (323, 18327), (324, 18330), (346, 18441), (347, 18444), (348, 18453), (349, 18459), (352, 18474), (354, 18477), (362, 18498), (372, 18528), (375, 18540), (381, 18573), (393, 18639), (399, 18684), (400, 18687), (405, 18714), (407, 18720), (420, 18774), (421, 18777), (443, 18864), (445, 18879), (447, 18891), (448, 18894), (459, 18960), (464, 18984), (467, 19005), (469, 19014), (478, 19056), (482, 19074), (483, 19077), (491, 19113), (494, 19131), (499, 19143), (501, 19152), (507, 19179), (522, 19248), (525, 19266), (528, 19275), (530, 19287), (536, 19323), (544, 19353), (549, 19374), (556, 19398), (559, 19434), (565, 19488), (576, 19548), (581, 19590), (612, 19725), (616, 19749), (622, 19803), (626, 19851), (634, 19893), (636, 19917), (637, 19920),

Gene: Emmaloid_19 Start: 17189, Stop: 19726, Start Num: 43

Candidate Starts for Emmaloid_19:

(Start: 43 @17189 has 236 MA's), (52, 17210), (Start: 60 @17231 has 1 MA's), (75, 17270), (109, 17339), (113, 17348), (115, 17351), (124, 17369), (143, 17417), (190, 17570), (195, 17579), (212, 17624), (232, 17723), (233, 17726), (246, 17792), (260, 17867), (261, 17873), (263, 17891), (272, 17915), (273, 17921), (274, 17924), (291, 17957), (293, 17963), (301, 17993), (310, 18014), (316, 18044), (319, 18053), (323, 18068), (324, 18071), (346, 18182), (347, 18185), (348, 18194), (349,

18200), (352, 18215), (354, 18218), (362, 18239), (372, 18269), (375, 18281), (381, 18314), (399, 18425), (400, 18428), (405, 18455), (407, 18461), (420, 18515), (421, 18518), (445, 18620), (447, 18632), (448, 18635), (459, 18701), (464, 18725), (467, 18746), (469, 18755), (482, 18815), (483, 18818), (491, 18854), (494, 18872), (499, 18884), (501, 18893), (507, 18920), (521, 18977), (522, 18989), (525, 19007), (528, 19016), (530, 19028), (536, 19064), (544, 19094), (547, 19103), (549, 19115), (559, 19175), (565, 19229), (576, 19289), (581, 19331), (612, 19466), (616, 19490), (622, 19544), (626, 19592), (634, 19634), (636, 19658), (637, 19661),

Gene: Emmina_27 Start: 22115, Stop: 24511, Start Num: 80

Candidate Starts for Emmina_27:

(Start: 80 @22115 has 128 MA's), (157, 22292), (162, 22313), (220, 22460), (254, 22634), (260, 22667), (268, 22703), (301, 22796), (319, 22856), (324, 22874), (350, 23006), (364, 23051), (393, 23183), (399, 23228), (416, 23288), (442, 23402), (445, 23423), (453, 23462), (456, 23483), (458, 23498), (489, 23648), (491, 23654), (494, 23672), (508, 23726), (525, 23810), (547, 23903), (591, 24149), (626, 24365), (637, 24449), (643, 24482),

Gene: Empress_19 Start: 18749, Stop: 21286, Start Num: 43

Candidate Starts for Empress_19:

(35, 18737), (Start: 43 @18749 has 236 MA's), (52, 18770), (Start: 60 @18791 has 1 MA's), (75, 18830), (109, 18899), (113, 18908), (115, 18911), (124, 18929), (143, 18977), (160, 19025), (194, 19136), (195, 19139), (212, 19184), (229, 19262), (233, 19286), (246, 19352), (255, 19397), (260, 19427), (261, 19433), (263, 19451), (272, 19475), (274, 19484), (291, 19517), (293, 19523), (301, 19553), (315, 19592), (316, 19604), (319, 19613), (323, 19628), (324, 19631), (346, 19742), (347, 19745), (348, 19754), (349, 19760), (352, 19775), (354, 19778), (362, 19799), (372, 19829), (375, 19841), (381, 19874), (399, 19985), (400, 19988), (405, 20015), (407, 20021), (420, 20075), (421, 20078), (445, 20180), (447, 20192), (448, 20195), (459, 20261), (464, 20285), (467, 20306), (469, 20315), (482, 20375), (483, 20378), (491, 20414), (494, 20432), (501, 20453), (507, 20480), (521, 20537), (522, 20549), (525, 20567), (528, 20576), (530, 20588), (536, 20624), (544, 20654), (547, 20663), (549, 20675), (559, 20735), (565, 20789), (576, 20849), (581, 20891), (612, 21026), (616, 21050), (622, 21104), (626, 21152), (631, 21173), (636, 21218), (637, 21221),

Gene: Enby_19 Start: 17219, Stop: 19756, Start Num: 43

Candidate Starts for Enby_19:

(35, 17207), (Start: 43 @17219 has 236 MA's), (52, 17240), (Start: 60 @17261 has 1 MA's), (75, 17300), (109, 17369), (113, 17378), (115, 17381), (124, 17399), (138, 17432), (143, 17447), (160, 17495), (190, 17600), (195, 17609), (211, 17651), (212, 17654), (229, 17732), (233, 17756), (246, 17822), (255, 17867), (260, 17897), (261, 17903), (263, 17921), (272, 17945), (274, 17954), (291, 17987), (293, 17993), (301, 18023), (315, 18062), (316, 18074), (319, 18083), (323, 18098), (324, 18101), (346, 18212), (348, 18224), (349, 18230), (352, 18245), (354, 18248), (362, 18269), (372, 18299), (375, 18311), (381, 18344), (393, 18410), (399, 18455), (400, 18458), (405, 18485), (407, 18491), (420, 18545), (421, 18548), (428, 18575), (445, 18650), (447, 18662), (448, 18665), (459, 18731), (464, 18755), (469, 18785), (478, 18827), (482, 18845), (483, 18848), (491, 18884), (494, 18902), (501, 18923), (507, 18950), (522, 19019), (525, 19037), (528, 19046), (530, 19058), (536, 19094), (544, 19124), (547, 19133), (549, 19145), (559, 19205), (565, 19259), (576, 19319), (581, 19361), (601, 19439), (612, 19496), (616, 19520), (622, 19574), (626, 19622), (634, 19664), (636, 19688), (637, 19691),

Gene: EniyanLRS_40 Start: 28045, Stop: 30612, Start Num: 42

Candidate Starts for EniyanLRS_40:

(Start: 42 @28045 has 6 MA's), (69, 28114), (119, 28237), (123, 28243), (124, 28246), (136, 28270), (142, 28291), (190, 28447), (193, 28453), (195, 28459), (204, 28489), (206, 28495), (212, 28516), (214, 28525), (226, 28585), (242, 28663), (261, 28762), (269, 28795), (273, 28810), (274, 28813), (293, 28852), (310, 28903), (315, 28921), (319, 28942), (321, 28948), (332, 29002), (346, 29071),

(351, 29095), (357, 29116), (364, 29137), (368, 29146), (375, 29167), (381, 29200), (382, 29203), (390, 29254), (393, 29266), (403, 29332), (408, 29350), (417, 29389), (445, 29506), (454, 29551), (463, 29608), (467, 29632), (469, 29641), (472, 29659), (482, 29704), (489, 29737), (496, 29773), (535, 29947), (536, 29965), (538, 29971), (553, 30028), (611, 30352), (613, 30370), (620, 30421), (627, 30484), (636, 30559),

Gene: Enzomatic_20 Start: 17446, Stop: 19983, Start Num: 43

Candidate Starts for Enzomatic_20:

(Start: 43 @17446 has 236 MA's), (52, 17467), (Start: 60 @17488 has 1 MA's), (74, 17524), (75, 17527), (109, 17596), (113, 17605), (115, 17608), (124, 17626), (138, 17659), (143, 17674), (160, 17722), (190, 17827), (194, 17833), (195, 17836), (211, 17878), (212, 17881), (233, 17983), (246, 18049), (255, 18094), (260, 18124), (261, 18130), (263, 18148), (272, 18172), (274, 18181), (291, 18214), (293, 18220), (310, 18271), (315, 18289), (316, 18301), (319, 18310), (323, 18325), (325, 18331), (346, 18439), (348, 18451), (349, 18457), (352, 18472), (354, 18475), (362, 18496), (372, 18526), (375, 18538), (381, 18571), (393, 18637), (399, 18682), (400, 18685), (405, 18712), (407, 18718), (420, 18772), (421, 18775), (443, 18862), (445, 18877), (447, 18889), (448, 18892), (459, 18958), (467, 19003), (469, 19012), (482, 19072), (483, 19075), (491, 19111), (494, 19129), (499, 19141), (501, 19150), (507, 19177), (522, 19246), (525, 19264), (528, 19273), (530, 19285), (536, 19321), (544, 19351), (549, 19372), (556, 19396), (559, 19432), (565, 19486), (576, 19546), (581, 19588), (601, 19666), (612, 19723), (616, 19747), (622, 19801), (626, 19849), (634, 19891), (636, 19915), (637, 19918),

Gene: Eradicator_18 Start: 17363, Stop: 19915, Start Num: 43

Candidate Starts for Eradicator_18:

(Start: 43 @17363 has 236 MA's), (52, 17384), (83, 17453), (109, 17513), (113, 17522), (115, 17525), (138, 17576), (143, 17591), (160, 17639), (194, 17750), (195, 17753), (209, 17786), (211, 17795), (212, 17798), (229, 17876), (240, 17942), (247, 17975), (258, 18029), (260, 18041), (272, 18089), (274, 18098), (275, 18107), (294, 18140), (310, 18182), (314, 18197), (321, 18227), (322, 18233), (323, 18236), (324, 18239), (330, 18266), (334, 18287), (341, 18320), (348, 18362), (349, 18368), (350, 18371), (352, 18383), (354, 18386), (363, 18413), (372, 18437), (375, 18449), (381, 18482), (385, 18503), (397, 18575), (400, 18596), (426, 18707), (433, 18731), (434, 18734), (439, 18758), (445, 18788), (450, 18812), (456, 18848), (457, 18854), (458, 18863), (473, 18953), (478, 18977), (479, 18992), (489, 19034), (491, 19040), (502, 19085), (523, 19181), (525, 19196), (528, 19205), (533, 19229), (547, 19292), (565, 19418), (609, 19634), (616, 19679), (626, 19781), (640, 19859),

Gene: Estave1_18 Start: 17517, Stop: 20006, Start Num: 43

Candidate Starts for Estave1_18:

(Start: 43 @17517 has 236 MA's), (52, 17538), (Start: 60 @17559 has 1 MA's), (77, 17598), (109, 17667), (113, 17676), (115, 17679), (124, 17697), (138, 17730), (143, 17745), (160, 17793), (184, 17847), (195, 17883), (198, 17892), (210, 17910), (212, 17922), (215, 17934), (222, 17958), (223, 17961), (252, 18105), (255, 18114), (260, 18138), (263, 18162), (272, 18186), (273, 18192), (279, 18213), (293, 18234), (301, 18264), (312, 18294), (316, 18315), (338, 18408), (341, 18423), (342, 18432), (346, 18453), (347, 18456), (372, 18540), (373, 18543), (375, 18552), (380, 18579), (382, 18588), (388, 18627), (391, 18648), (393, 18651), (398, 18687), (401, 18708), (420, 18786), (421, 18789), (436, 18843), (447, 18903), (464, 18996), (467, 19017), (476, 19053), (487, 19107), (489, 19116), (506, 19194), (509, 19212), (518, 19248), (519, 19251), (522, 19269), (523, 19272), (525, 19287), (536, 19344), (540, 19356), (559, 19452), (569, 19539), (578, 19587), (580, 19611), (587, 19638), (591, 19647), (600, 19686), (608, 19725), (612, 19749), (615, 19770), (626, 19866), (631, 19887), (640, 19950), (643, 19977), (644, 19986),

Gene: Eureka_26 Start: 22269, Stop: 24665, Start Num: 80

Candidate Starts for Eureka_26:

(Start: 80 @22269 has 128 MA's), (157, 22446), (162, 22467), (220, 22614), (247, 22755), (254, 22788), (260, 22821), (268, 22857), (301, 22950), (319, 23010), (324, 23028), (341, 23109), (393, 23337), (399, 23382), (445, 23577), (446, 23583), (448, 23592), (456, 23637), (458, 23652), (491, 23808), (494, 23826), (497, 23835), (509, 23889), (525, 23964), (526, 23967), (564, 24177), (566, 24189), (591, 24303), (626, 24519), (637, 24603), (641, 24627), (643, 24636),

Gene: FairyPath_26 Start: 22481, Stop: 24877, Start Num: 80

Candidate Starts for FairyPath_26:

(Start: 80 @22481 has 128 MA's), (157, 22658), (162, 22679), (220, 22826), (247, 22967), (254, 23000), (260, 23033), (268, 23069), (301, 23162), (319, 23222), (324, 23240), (357, 23396), (364, 23417), (390, 23537), (393, 23549), (399, 23594), (445, 23789), (446, 23795), (448, 23804), (456, 23849), (458, 23864), (491, 24020), (494, 24038), (497, 24047), (509, 24101), (525, 24176), (526, 24179), (564, 24389), (566, 24401), (591, 24515), (626, 24731), (637, 24815), (641, 24839), (643, 24848),

Gene: Familton_59 Start: 36102, Stop: 38612, Start Num: 57

Candidate Starts for Familton_59:

(Start: 57 @36102 has 33 MA's), (69, 36135), (93, 36204), (95, 36207), (106, 36231), (115, 36255), (126, 36279), (138, 36312), (200, 36519), (203, 36531), (204, 36534), (237, 36681), (240, 36711), (246, 36735), (255, 36765), (256, 36768), (260, 36795), (263, 36819), (273, 36849), (296, 36906), (302, 36930), (315, 36966), (316, 36978), (323, 37002), (324, 37005), (332, 37047), (352, 37143), (354, 37146), (413, 37401), (445, 37545), (456, 37605), (466, 37677), (467, 37680), (488, 37776), (525, 37950), (530, 37971), (552, 38064), (555, 38076), (565, 38166), (579, 38241), (598, 38286), (630, 38487), (635, 38541), (640, 38556),

Gene: Fancypants_18 Start: 17408, Stop: 19945, Start Num: 43

Candidate Starts for Fancypants_18:

(35, 17396), (Start: 43 @17408 has 236 MA's), (52, 17429), (Start: 60 @17450 has 1 MA's), (75, 17489), (109, 17558), (113, 17567), (115, 17570), (124, 17588), (138, 17621), (143, 17636), (160, 17684), (194, 17795), (195, 17798), (208, 17828), (211, 17840), (212, 17843), (229, 17921), (233, 17945), (246, 18011), (255, 18056), (260, 18086), (261, 18092), (263, 18110), (272, 18134), (274, 18143), (291, 18176), (293, 18182), (301, 18212), (315, 18251), (316, 18263), (319, 18272), (323, 18287), (324, 18290), (346, 18401), (347, 18404), (348, 18413), (349, 18419), (352, 18434), (354, 18437), (362, 18458), (372, 18488), (375, 18500), (381, 18533), (399, 18644), (400, 18647), (405, 18674), (407, 18680), (420, 18734), (421, 18737), (445, 18839), (447, 18851), (448, 18854), (459, 18920), (464, 18944), (467, 18965), (469, 18974), (482, 19034), (483, 19037), (484, 19049), (491, 19073), (494, 19091), (499, 19103), (501, 19112), (507, 19139), (522, 19208), (525, 19226), (528, 19235), (530, 19247), (536, 19283), (544, 19313), (549, 19334), (556, 19358), (559, 19394), (565, 19448), (576, 19508), (581, 19550), (601, 19628), (612, 19685), (616, 19709), (622, 19763), (626, 19811), (634, 19853), (636, 19877), (637, 19880),

Gene: Fastidio_18 Start: 17365, Stop: 19902, Start Num: 43

Candidate Starts for Fastidio_18:

(35, 17353), (Start: 43 @17365 has 236 MA's), (52, 17386), (Start: 60 @17407 has 1 MA's), (75, 17446), (109, 17515), (113, 17524), (115, 17527), (124, 17545), (138, 17578), (143, 17593), (160, 17641), (194, 17752), (195, 17755), (208, 17785), (211, 17797), (212, 17800), (229, 17878), (233, 17902), (246, 17968), (255, 18013), (260, 18043), (261, 18049), (263, 18067), (272, 18091), (274, 18100), (291, 18133), (293, 18139), (301, 18169), (315, 18208), (316, 18220), (319, 18229), (323, 18244), (324, 18247), (346, 18358), (347, 18361), (348, 18370), (349, 18376), (352, 18391), (354, 18394), (362, 18415), (372, 18445), (375, 18457), (381, 18490), (399, 18601), (400, 18604), (405, 18631), (407, 18637), (420, 18691), (421, 18694), (443, 18781), (445, 18796), (447, 18808), (448, 18811), (459, 18877), (463, 18898), (464, 18901), (467, 18922), (478, 18973), (482, 18991), (483, 18994), (491, 19030), (494, 19048), (499, 19060), (501, 19069), (521, 19153), (522, 19165), (525,

19183), (528, 19192), (530, 19204), (536, 19240), (544, 19270), (556, 19315), (559, 19351), (565, 19405), (581, 19507), (601, 19585), (612, 19642), (616, 19666), (622, 19720), (626, 19768), (634, 19810), (636, 19834), (637, 19837),

Gene: Filch_27 Start: 22042, Stop: 24438, Start Num: 80

Candidate Starts for Filch_27:

(Start: 80 @22042 has 128 MA's), (157, 22219), (162, 22240), (220, 22387), (247, 22528), (254, 22561), (260, 22594), (268, 22630), (301, 22723), (319, 22783), (324, 22801), (350, 22933), (364, 22978), (393, 23110), (399, 23155), (416, 23215), (442, 23329), (445, 23350), (453, 23389), (456, 23410), (458, 23425), (489, 23575), (491, 23581), (494, 23599), (508, 23653), (525, 23737), (547, 23830), (591, 24076), (626, 24292), (637, 24376), (643, 24409),

Gene: Filuzino_18 Start: 17390, Stop: 19927, Start Num: 43

Candidate Starts for Filuzino_18:

(35, 17378), (Start: 43 @17390 has 236 MA's), (52, 17411), (Start: 60 @17432 has 1 MA's), (75, 17471), (109, 17540), (113, 17549), (115, 17552), (124, 17570), (138, 17603), (143, 17618), (160, 17666), (194, 17777), (195, 17780), (208, 17810), (212, 17825), (229, 17903), (233, 17927), (246, 17993), (255, 18038), (260, 18068), (261, 18074), (263, 18092), (272, 18116), (274, 18125), (291, 18158), (293, 18164), (301, 18194), (315, 18233), (316, 18245), (319, 18254), (323, 18269), (324, 18272), (346, 18383), (347, 18386), (348, 18395), (349, 18401), (352, 18416), (354, 18419), (362, 18440), (372, 18470), (375, 18482), (381, 18515), (399, 18626), (400, 18629), (405, 18656), (407, 18662), (420, 18716), (421, 18719), (445, 18821), (447, 18833), (448, 18836), (459, 18902), (464, 18926), (467, 18947), (469, 18956), (482, 19016), (483, 19019), (491, 19055), (494, 19073), (499, 19085), (501, 19094), (507, 19121), (522, 19190), (525, 19208), (528, 19217), (530, 19229), (536, 19265), (544, 19295), (549, 19316), (556, 19340), (559, 19376), (565, 19430), (576, 19490), (581, 19532), (601, 19610), (612, 19667), (616, 19691), (622, 19745), (626, 19793), (634, 19835), (636, 19859), (637, 19862),

Gene: FireRed_26 Start: 22312, Stop: 24708, Start Num: 80

Candidate Starts for FireRed_26:

(Start: 80 @22312 has 128 MA's), (157, 22489), (162, 22510), (220, 22657), (247, 22798), (254, 22831), (260, 22864), (268, 22900), (301, 22993), (319, 23053), (324, 23071), (350, 23203), (364, 23248), (393, 23380), (399, 23425), (416, 23485), (442, 23599), (445, 23620), (453, 23659), (456, 23680), (458, 23695), (489, 23845), (491, 23851), (494, 23869), (508, 23923), (525, 24007), (547, 24100), (591, 24346), (626, 24562), (637, 24646), (643, 24679),

Gene: Firecracker_59 Start: 36292, Stop: 38802, Start Num: 57

Candidate Starts for Firecracker_59:

(Start: 57 @36292 has 33 MA's), (69, 36325), (93, 36394), (95, 36397), (106, 36421), (115, 36445), (126, 36469), (138, 36502), (200, 36709), (203, 36721), (204, 36724), (237, 36871), (240, 36901), (246, 36925), (255, 36955), (256, 36958), (260, 36985), (263, 37009), (273, 37039), (296, 37096), (315, 37156), (316, 37168), (323, 37192), (324, 37195), (332, 37237), (352, 37333), (354, 37336), (399, 37540), (413, 37591), (445, 37735), (456, 37795), (466, 37867), (467, 37870), (488, 37966), (525, 38140), (530, 38161), (552, 38254), (555, 38266), (565, 38356), (579, 38431), (598, 38476), (630, 38677), (635, 38731), (640, 38746),

Gene: Firehouse51_19 Start: 17957, Stop: 20494, Start Num: 43

Candidate Starts for Firehouse51_19:

(35, 17945), (Start: 43 @17957 has 236 MA's), (52, 17978), (Start: 60 @17999 has 1 MA's), (75, 18038), (109, 18107), (113, 18116), (115, 18119), (124, 18137), (138, 18170), (143, 18185), (160, 18233), (194, 18344), (195, 18347), (208, 18377), (211, 18389), (212, 18392), (229, 18470), (233, 18494), (246, 18560), (255, 18605), (260, 18635), (261, 18641), (263, 18659), (272, 18683), (274, 18692), (291, 18725), (293, 18731), (301, 18761), (315, 18800), (316, 18812), (319, 18821), (323,

18836), (324, 18839), (346, 18950), (347, 18953), (348, 18962), (349, 18968), (352, 18983), (354, 18986), (362, 19007), (372, 19037), (375, 19049), (381, 19082), (399, 19193), (400, 19196), (405, 19223), (407, 19229), (420, 19283), (421, 19286), (445, 19388), (447, 19400), (448, 19403), (459, 19469), (464, 19493), (467, 19514), (469, 19523), (482, 19583), (483, 19586), (491, 19622), (494, 19640), (499, 19652), (501, 19661), (507, 19688), (522, 19757), (525, 19775), (528, 19784), (530, 19796), (536, 19832), (544, 19862), (549, 19883), (556, 19907), (559, 19943), (565, 19997), (576, 20057), (581, 20099), (601, 20177), (612, 20234), (616, 20258), (622, 20312), (626, 20360), (634, 20402), (636, 20426), (637, 20429),

Gene: FlagStaff_22 Start: 20643, Stop: 23102, Start Num: 39

Candidate Starts for FlagStaff_22:

(Start: 39 @20643 has 9 MA's), (64, 20703), (77, 20751), (166, 20946), (243, 21234), (264, 21336), (272, 21360), (320, 21504), (324, 21519), (341, 21600), (355, 21675), (375, 21732), (379, 21756), (386, 21792), (420, 21978), (425, 21999), (436, 22047), (438, 22062), (451, 22128), (458, 22170), (478, 22263), (480, 22281), (494, 22347), (510, 22428), (531, 22494), (559, 22647), (570, 22737), (581, 22806), (591, 22842), (611, 22935), (623, 23040), (625, 23076),

Gene: Flathead_19 Start: 17265, Stop: 19802, Start Num: 43

Candidate Starts for Flathead_19:

(35, 17253), (Start: 43 @17265 has 236 MA's), (52, 17286), (Start: 60 @17307 has 1 MA's), (75, 17346), (109, 17415), (113, 17424), (115, 17427), (124, 17445), (138, 17478), (143, 17493), (160, 17541), (194, 17652), (195, 17655), (208, 17685), (211, 17697), (212, 17700), (229, 17778), (233, 17802), (246, 17868), (255, 17913), (260, 17943), (261, 17949), (263, 17967), (272, 17991), (274, 18000), (291, 18033), (293, 18039), (301, 18069), (315, 18108), (316, 18120), (319, 18129), (323, 18144), (324, 18147), (346, 18258), (347, 18261), (348, 18270), (349, 18276), (352, 18291), (354, 18294), (362, 18315), (372, 18345), (375, 18357), (381, 18390), (393, 18456), (399, 18501), (400, 18504), (405, 18531), (407, 18537), (420, 18591), (421, 18594), (443, 18681), (445, 18696), (447, 18708), (448, 18711), (459, 18777), (464, 18801), (467, 18822), (469, 18831), (482, 18891), (483, 18894), (491, 18930), (494, 18948), (499, 18960), (501, 18969), (507, 18996), (522, 19065), (525, 19083), (528, 19092), (530, 19104), (536, 19140), (544, 19170), (549, 19191), (556, 19215), (559, 19251), (565, 19305), (576, 19365), (581, 19407), (612, 19542), (616, 19566), (622, 19620), (626, 19668), (634, 19710), (636, 19734), (637, 19737),

Gene: Florinda_18 Start: 17419, Stop: 19956, Start Num: 43

Candidate Starts for Florinda_18:

(Start: 43 @17419 has 236 MA's), (52, 17440), (Start: 60 @17461 has 1 MA's), (75, 17500), (109, 17569), (113, 17578), (115, 17581), (124, 17599), (138, 17632), (143, 17647), (160, 17695), (194, 17806), (195, 17809), (208, 17839), (212, 17854), (229, 17932), (233, 17956), (246, 18022), (255, 18067), (260, 18097), (261, 18103), (263, 18121), (272, 18145), (274, 18154), (291, 18187), (293, 18193), (301, 18223), (315, 18262), (319, 18283), (323, 18298), (324, 18301), (347, 18415), (348, 18424), (349, 18430), (354, 18448), (362, 18469), (372, 18499), (375, 18511), (381, 18544), (399, 18655), (400, 18658), (405, 18685), (407, 18691), (420, 18745), (421, 18748), (443, 18835), (445, 18850), (448, 18865), (464, 18955), (467, 18976), (469, 18985), (482, 19045), (483, 19048), (489, 19078), (494, 19102), (501, 19123), (522, 19219), (525, 19237), (528, 19246), (530, 19258), (536, 19294), (544, 19324), (549, 19345), (556, 19369), (559, 19405), (565, 19459), (576, 19519), (581, 19561), (601, 19639), (612, 19696), (616, 19720), (622, 19774), (626, 19822), (634, 19864), (636, 19888), (637, 19891),

Gene: Flypotenuse_24 Start: 21900, Stop: 24296, Start Num: 80

Candidate Starts for Flypotenuse_24:

(Start: 80 @21900 has 128 MA's), (157, 22077), (162, 22098), (220, 22245), (247, 22386), (254, 22419), (260, 22452), (268, 22488), (301, 22581), (319, 22641), (324, 22659), (350, 22791), (393, 22968), (399, 23013), (442, 23187), (445, 23208), (453, 23247), (456, 23268), (458, 23283), (491,

23439), (494, 23457), (508, 23511), (525, 23595), (583, 23919), (626, 24150), (637, 24234), (643, 24267),

Gene: FoghornLeghorn_25 Start: 21788, Stop: 24184, Start Num: 80

Candidate Starts for FoghornLeghorn_25:

(Start: 80 @21788 has 128 MA's), (157, 21965), (162, 21986), (220, 22133), (247, 22274), (254, 22307), (260, 22340), (268, 22376), (301, 22469), (319, 22529), (324, 22547), (350, 22679), (364, 22724), (393, 22856), (399, 22901), (442, 23075), (445, 23096), (453, 23135), (456, 23156), (458, 23171), (491, 23327), (494, 23345), (508, 23399), (525, 23483), (547, 23576), (591, 23822), (626, 24038), (637, 24122), (643, 24155),

Gene: ForDig_26 Start: 27555, Stop: 30056, Start Num: 47

Candidate Starts for ForDig_26:

(Start: 47 @27555 has 6 MA's), (55, 27576), (68, 27612), (85, 27669), (139, 27789), (149, 27807), (170, 27879), (174, 27885), (192, 27939), (203, 27975), (243, 28158), (252, 28203), (260, 28242), (273, 28296), (292, 28344), (311, 28401), (319, 28437), (324, 28455), (334, 28503), (350, 28587), (361, 28623), (372, 28653), (379, 28689), (383, 28707), (420, 28914), (422, 28926), (425, 28935), (438, 29004), (440, 29010), (441, 29013), (443, 29022), (449, 29055), (456, 29097), (458, 29112), (474, 29193), (478, 29205), (480, 29223), (482, 29229), (484, 29244), (486, 29250), (504, 29331), (531, 29436), (544, 29508), (567, 29667), (623, 29988),

Gene: FoulBall_58 Start: 36096, Stop: 38606, Start Num: 57

Candidate Starts for FoulBall_58:

(Start: 57 @36096 has 33 MA's), (69, 36129), (93, 36198), (95, 36201), (106, 36225), (115, 36249), (126, 36273), (138, 36306), (200, 36513), (203, 36525), (204, 36528), (237, 36675), (240, 36705), (246, 36729), (255, 36759), (256, 36762), (260, 36789), (263, 36813), (273, 36843), (296, 36900), (302, 36924), (315, 36960), (316, 36972), (323, 36996), (324, 36999), (332, 37041), (352, 37137), (354, 37140), (413, 37395), (445, 37539), (456, 37599), (466, 37671), (467, 37674), (488, 37770), (525, 37944), (530, 37965), (552, 38058), (555, 38070), (565, 38160), (579, 38235), (598, 38280), (630, 38481), (635, 38535), (640, 38550),

Gene: Frankie_19 Start: 17503, Stop: 20040, Start Num: 43

Candidate Starts for Frankie_19:

(Start: 43 @17503 has 236 MA's), (52, 17524), (Start: 60 @17545 has 1 MA's), (75, 17584), (109, 17653), (113, 17662), (115, 17665), (124, 17683), (138, 17716), (143, 17731), (160, 17779), (194, 17890), (195, 17893), (208, 17923), (212, 17938), (229, 18016), (233, 18040), (246, 18106), (255, 18151), (260, 18181), (261, 18187), (263, 18205), (272, 18229), (274, 18238), (291, 18271), (293, 18277), (301, 18307), (315, 18346), (319, 18367), (323, 18382), (325, 18388), (354, 18532), (362, 18553), (372, 18583), (375, 18595), (381, 18628), (391, 18691), (393, 18694), (405, 18769), (407, 18775), (420, 18829), (421, 18832), (428, 18859), (431, 18868), (445, 18934), (447, 18946), (448, 18949), (459, 19015), (463, 19036), (464, 19039), (467, 19060), (478, 19111), (482, 19129), (483, 19132), (489, 19162), (494, 19186), (501, 19207), (508, 19240), (522, 19303), (525, 19321), (528, 19330), (530, 19342), (544, 19408), (547, 19417), (549, 19429), (576, 19603), (581, 19645), (601, 19723), (612, 19780), (616, 19804), (622, 19858), (626, 19906), (636, 19972), (637, 19975),

Gene: FreddyB_18 Start: 17407, Stop: 19959, Start Num: 43

Candidate Starts for FreddyB_18:

(Start: 43 @17407 has 236 MA's), (75, 17488), (109, 17557), (113, 17566), (115, 17569), (124, 17587), (143, 17635), (159, 17680), (194, 17794), (195, 17797), (199, 17809), (209, 17830), (211, 17839), (212, 17842), (223, 17890), (229, 17920), (240, 17986), (247, 18019), (255, 18055), (259, 18079), (273, 18139), (274, 18142), (279, 18160), (308, 18223), (310, 18226), (315, 18244), (319, 18265), (324, 18283), (330, 18310), (334, 18331), (341, 18364), (348, 18406), (349, 18412), (350, 18415), (354, 18430), (363, 18457), (372, 18481), (375, 18493), (381, 18526), (397, 18619), (420, 18727),

(426, 18751), (433, 18775), (434, 18778), (439, 18802), (445, 18832), (450, 18856), (456, 18892), (457, 18898), (458, 18907), (463, 18934), (473, 18997), (478, 19021), (479, 19036), (489, 19078), (502, 19129), (523, 19225), (525, 19240), (528, 19249), (533, 19273), (547, 19336), (556, 19372), (609, 19678), (616, 19723), (626, 19825),

Gene: Fruitloop_18 Start: 17429, Stop: 19966, Start Num: 43

Candidate Starts for Fruitloop_18:

(35, 17417), (Start: 43 @17429 has 236 MA's), (52, 17450), (Start: 60 @17471 has 1 MA's), (75, 17510), (109, 17579), (113, 17588), (115, 17591), (124, 17609), (138, 17642), (143, 17657), (160, 17705), (194, 17816), (195, 17819), (208, 17849), (211, 17861), (212, 17864), (229, 17942), (233, 17966), (246, 18032), (255, 18077), (260, 18107), (261, 18113), (263, 18131), (272, 18155), (274, 18164), (291, 18197), (293, 18203), (301, 18233), (315, 18272), (316, 18284), (319, 18293), (323, 18308), (324, 18311), (346, 18422), (347, 18425), (348, 18434), (349, 18440), (352, 18455), (354, 18458), (362, 18479), (372, 18509), (375, 18521), (381, 18554), (399, 18665), (400, 18668), (405, 18695), (407, 18701), (420, 18755), (421, 18758), (443, 18845), (445, 18860), (447, 18872), (448, 18875), (459, 18941), (464, 18965), (467, 18986), (469, 18995), (482, 19055), (483, 19058), (491, 19094), (494, 19112), (499, 19124), (501, 19133), (507, 19160), (522, 19229), (525, 19247), (528, 19256), (530, 19268), (536, 19304), (544, 19334), (549, 19355), (556, 19379), (559, 19415), (565, 19469), (576, 19529), (581, 19571), (601, 19649), (612, 19706), (616, 19730), (622, 19784), (626, 19832), (634, 19874), (636, 19898), (637, 19901),

Gene: Funsized_34 Start: 32646, Stop: 35123, Start Num: 47

Candidate Starts for Funsized_34:

(Start: 47 @32646 has 6 MA's), (51, 32655), (77, 32742), (79, 32748), (94, 32778), (112, 32817), (114, 32820), (131, 32847), (133, 32850), (139, 32865), (149, 32883), (176, 32958), (198, 33021), (213, 33078), (219, 33105), (223, 33120), (224, 33123), (243, 33222), (272, 33354), (273, 33360), (281, 33384), (295, 33420), (308, 33459), (320, 33504), (324, 33519), (333, 33564), (341, 33600), (345, 33621), (367, 33708), (389, 33810), (406, 33909), (414, 33939), (420, 33975), (423, 33990), (425, 33996), (438, 34065), (440, 34071), (450, 34122), (478, 34263), (482, 34287), (490, 34323), (505, 34389), (513, 34434), (528, 34491), (531, 34506), (534, 34518), (553, 34611), (555, 34617), (556, 34620), (564, 34710), (566, 34722), (589, 34848), (611, 34953), (627, 35106),

Gene: GUmbie_18 Start: 17402, Stop: 19939, Start Num: 43

Candidate Starts for GUmbie_18:

(Start: 43 @17402 has 236 MA's), (52, 17423), (Start: 60 @17444 has 1 MA's), (75, 17483), (109, 17552), (113, 17561), (115, 17564), (124, 17582), (138, 17615), (143, 17630), (190, 17783), (195, 17792), (212, 17837), (232, 17936), (233, 17939), (246, 18005), (260, 18080), (261, 18086), (272, 18128), (273, 18134), (274, 18137), (291, 18170), (293, 18176), (301, 18206), (310, 18227), (316, 18257), (319, 18266), (323, 18281), (324, 18284), (346, 18395), (347, 18398), (348, 18407), (349, 18413), (352, 18428), (354, 18431), (362, 18452), (372, 18482), (375, 18494), (381, 18527), (399, 18638), (400, 18641), (405, 18668), (407, 18674), (420, 18728), (421, 18731), (443, 18818), (445, 18833), (447, 18845), (448, 18848), (459, 18914), (464, 18938), (467, 18959), (469, 18968), (478, 19010), (482, 19028), (483, 19031), (489, 19061), (494, 19085), (499, 19097), (501, 19106), (522, 19202), (525, 19220), (528, 19229), (530, 19241), (536, 19277), (544, 19307), (547, 19316), (549, 19328), (559, 19388), (565, 19442), (576, 19502), (581, 19544), (612, 19679), (616, 19703), (622, 19757), (626, 19805), (634, 19847), (636, 19871), (637, 19874),

Gene: Gage_28 Start: 22274, Stop: 24670, Start Num: 80

Candidate Starts for Gage_28:

(Start: 80 @22274 has 128 MA's), (157, 22451), (162, 22472), (220, 22619), (247, 22760), (254, 22793), (260, 22826), (268, 22862), (301, 22955), (319, 23015), (324, 23033), (350, 23165), (364, 23210), (393, 23342), (399, 23387), (416, 23447), (442, 23561), (445, 23582), (453, 23621), (456, 23642), (458, 23657), (489, 23807), (491, 23813), (494, 23831), (508, 23885), (525, 23969), (547,

24062), (591, 24308), (626, 24524), (637, 24608), (643, 24641),

Gene: Gaia_21 Start: 19931, Stop: 22501, Start Num: 31

Candidate Starts for Gaia_21:

(Start: 31 @19931 has 2 MA's), (61, 20021), (91, 20090), (97, 20099), (98, 20102), (125, 20156), (127, 20168), (153, 20216), (163, 20261), (189, 20333), (195, 20354), (202, 20375), (211, 20396), (212, 20399), (240, 20543), (247, 20576), (261, 20633), (274, 20684), (279, 20702), (316, 20798), (319, 20807), (321, 20813), (323, 20822), (324, 20825), (330, 20852), (334, 20873), (341, 20906), (342, 20915), (346, 20936), (348, 20948), (352, 20969), (372, 21023), (375, 21035), (381, 21068), (394, 21143), (398, 21170), (426, 21293), (434, 21320), (439, 21344), (445, 21374), (450, 21398), (457, 21440), (458, 21449), (479, 21578), (485, 21605), (499, 21656), (523, 21767), (525, 21782), (577, 22073), (612, 22241), (616, 22265), (634, 22409), (637, 22436), (639, 22442), (640, 22445),

Gene: Galactic_18 Start: 17394, Stop: 19931, Start Num: 43

Candidate Starts for Galactic_18:

(35, 17382), (Start: 43 @17394 has 236 MA's), (52, 17415), (Start: 60 @17436 has 1 MA's), (75, 17475), (109, 17544), (113, 17553), (115, 17556), (124, 17574), (138, 17607), (143, 17622), (160, 17670), (194, 17781), (195, 17784), (208, 17814), (212, 17829), (229, 17907), (233, 17931), (246, 17997), (255, 18042), (260, 18072), (261, 18078), (263, 18096), (272, 18120), (274, 18129), (291, 18162), (293, 18168), (301, 18198), (315, 18237), (316, 18249), (319, 18258), (323, 18273), (324, 18276), (346, 18387), (347, 18390), (348, 18399), (349, 18405), (352, 18420), (354, 18423), (362, 18444), (372, 18474), (375, 18486), (381, 18519), (399, 18630), (400, 18633), (405, 18660), (407, 18666), (420, 18720), (421, 18723), (445, 18825), (447, 18837), (448, 18840), (459, 18906), (464, 18930), (467, 18951), (469, 18960), (482, 19020), (483, 19023), (491, 19059), (494, 19077), (499, 19089), (501, 19098), (507, 19125), (522, 19194), (525, 19212), (528, 19221), (530, 19233), (536, 19269), (544, 19299), (549, 19320), (556, 19344), (559, 19380), (565, 19434), (576, 19494), (581, 19536), (601, 19614), (612, 19671), (616, 19695), (622, 19749), (626, 19797), (634, 19839), (636, 19863), (637, 19866),

Gene: Gandolph_18 Start: 17413, Stop: 19965, Start Num: 43

Candidate Starts for Gandolph_18:

(Start: 43 @17413 has 236 MA's), (75, 17494), (109, 17563), (113, 17572), (115, 17575), (124, 17593), (143, 17641), (159, 17686), (194, 17800), (195, 17803), (199, 17815), (209, 17836), (211, 17845), (212, 17848), (223, 17896), (229, 17926), (240, 17992), (247, 18025), (255, 18061), (259, 18085), (273, 18145), (274, 18148), (279, 18166), (308, 18229), (310, 18232), (315, 18250), (319, 18271), (324, 18289), (330, 18316), (334, 18337), (341, 18370), (348, 18412), (349, 18418), (350, 18421), (354, 18436), (363, 18463), (364, 18466), (372, 18487), (375, 18499), (381, 18532), (397, 18625), (420, 18733), (426, 18757), (428, 18763), (433, 18781), (434, 18784), (439, 18808), (445, 18838), (450, 18862), (456, 18898), (457, 18904), (458, 18913), (463, 18940), (473, 19003), (478, 19027), (479, 19042), (489, 19084), (502, 19135), (523, 19231), (525, 19246), (528, 19255), (533, 19279), (547, 19342), (556, 19378), (609, 19684), (616, 19729), (626, 19831),

Gene: Ganymede_28 Start: 20892, Stop: 23324, Start Num: 88

Candidate Starts for Ganymede_28:

(Start: 88 @20892 has 96 MA's), (132, 20991), (218, 21252), (223, 21273), (263, 21480), (272, 21513), (276, 21543), (297, 21615), (303, 21639), (316, 21684), (346, 21837), (353, 21882), (356, 21894), (360, 21903), (375, 21954), (406, 22134), (410, 22149), (424, 22218), (428, 22230), (440, 22293), (448, 22335), (456, 22374), (457, 22380), (458, 22389), (462, 22410), (475, 22470), (501, 22587), (509, 22629), (527, 22701), (529, 22710), (534, 22731), (548, 22803), (553, 22824), (565, 22920), (576, 22983), (594, 23067), (602, 23109), (610, 23148),

Gene: Gator_24 Start: 21899, Stop: 24295, Start Num: 80

Candidate Starts for Gator_24:

(Start: 80 @21899 has 128 MA's), (157, 22076), (162, 22097), (220, 22244), (247, 22385), (254, 22418), (260, 22451), (268, 22487), (301, 22580), (319, 22640), (324, 22658), (341, 22739), (393, 22967), (399, 23012), (445, 23207), (446, 23213), (448, 23222), (456, 23267), (458, 23282), (491, 23438), (494, 23456), (497, 23465), (509, 23519), (525, 23594), (526, 23597), (564, 23807), (566, 23819), (591, 23933), (626, 24149), (637, 24233), (641, 24257), (643, 24266),

Gene: Gemini_29 Start: 22791, Stop: 25187, Start Num: 80

Candidate Starts for Gemini_29:

(Start: 80 @22791 has 128 MA's), (157, 22968), (162, 22989), (220, 23136), (247, 23277), (254, 23310), (260, 23343), (268, 23379), (301, 23472), (319, 23532), (324, 23550), (350, 23682), (364, 23727), (393, 23859), (399, 23904), (416, 23964), (442, 24078), (445, 24099), (453, 24138), (456, 24159), (458, 24174), (489, 24324), (491, 24330), (494, 24348), (508, 24402), (525, 24486), (547, 24579), (591, 24825), (626, 25041), (637, 25125), (643, 25158),

Gene: Geraldini_27 Start: 20888, Stop: 23320, Start Num: 88

Candidate Starts for Geraldini_27:

(Start: 88 @20888 has 96 MA's), (132, 20987), (185, 21128), (218, 21248), (223, 21269), (263, 21476), (272, 21509), (276, 21539), (297, 21611), (303, 21635), (346, 21833), (353, 21878), (356, 21890), (360, 21899), (375, 21950), (406, 22130), (410, 22145), (424, 22214), (428, 22226), (440, 22289), (448, 22331), (456, 22370), (457, 22376), (458, 22385), (462, 22406), (475, 22466), (501, 22583), (509, 22625), (527, 22697), (529, 22706), (534, 22727), (548, 22799), (553, 22820), (565, 22916), (576, 22979), (594, 23063), (602, 23105), (610, 23144),

Gene: Geralt_18 Start: 17396, Stop: 19933, Start Num: 43

Candidate Starts for Geralt_18:

(Start: 43 @17396 has 236 MA's), (52, 17417), (Start: 60 @17438 has 1 MA's), (75, 17477), (109, 17546), (113, 17555), (115, 17558), (124, 17576), (143, 17624), (160, 17672), (194, 17783), (195, 17786), (212, 17831), (229, 17909), (233, 17933), (246, 17999), (260, 18074), (261, 18080), (263, 18098), (272, 18122), (274, 18131), (291, 18164), (293, 18170), (301, 18200), (310, 18221), (316, 18251), (319, 18260), (342, 18368), (345, 18380), (346, 18389), (347, 18392), (349, 18407), (352, 18422), (354, 18425), (362, 18446), (375, 18488), (381, 18521), (399, 18632), (400, 18635), (405, 18662), (407, 18668), (420, 18722), (421, 18725), (428, 18752), (445, 18827), (447, 18839), (448, 18842), (459, 18908), (463, 18929), (464, 18932), (467, 18953), (469, 18962), (478, 19004), (482, 19022), (483, 19025), (489, 19055), (494, 19079), (499, 19091), (501, 19100), (522, 19196), (525, 19214), (528, 19223), (530, 19235), (536, 19271), (544, 19301), (547, 19310), (549, 19322), (559, 19382), (565, 19436), (576, 19496), (581, 19538), (612, 19673), (616, 19697), (622, 19751), (626, 19799), (634, 19841), (636, 19865), (637, 19868),

Gene: GigiOuiOui_18 Start: 17527, Stop: 20064, Start Num: 43

Candidate Starts for GigiOuiOui_18:

(Start: 43 @17527 has 236 MA's), (52, 17548), (Start: 60 @17569 has 1 MA's), (75, 17608), (109, 17677), (113, 17686), (115, 17689), (124, 17707), (143, 17755), (190, 17908), (195, 17917), (212, 17962), (232, 18061), (233, 18064), (246, 18130), (260, 18205), (261, 18211), (263, 18229), (272, 18253), (273, 18259), (274, 18262), (291, 18295), (293, 18301), (301, 18331), (310, 18352), (316, 18382), (319, 18391), (323, 18406), (324, 18409), (346, 18520), (347, 18523), (348, 18532), (349, 18538), (352, 18553), (354, 18556), (362, 18577), (372, 18607), (375, 18619), (381, 18652), (399, 18763), (400, 18766), (405, 18793), (407, 18799), (420, 18853), (421, 18856), (445, 18958), (447, 18970), (448, 18973), (459, 19039), (464, 19063), (467, 19084), (469, 19093), (482, 19153), (483, 19156), (491, 19192), (494, 19210), (499, 19222), (501, 19231), (507, 19258), (521, 19315), (522, 19327), (525, 19345), (528, 19354), (530, 19366), (536, 19402), (544, 19432), (547, 19441), (549, 19453), (559, 19513), (565, 19567), (576, 19627), (581, 19669), (612, 19804), (616, 19828), (622, 19882), (626, 19930), (634, 19972), (636, 19996), (637, 19999),

Gene: Girafales_19 Start: 17227, Stop: 19764, Start Num: 43

Candidate Starts for Girafales_19:

(Start: 43 @17227 has 236 MA's), (52, 17248), (Start: 60 @17269 has 1 MA's), (75, 17308), (109, 17377), (113, 17386), (115, 17389), (124, 17407), (138, 17440), (143, 17455), (160, 17503), (194, 17614), (195, 17617), (208, 17647), (212, 17662), (229, 17740), (233, 17764), (246, 17830), (255, 17875), (260, 17905), (261, 17911), (263, 17929), (272, 17953), (274, 17962), (291, 17995), (293, 18001), (301, 18031), (315, 18070), (319, 18091), (323, 18106), (324, 18109), (347, 18223), (348, 18232), (349, 18238), (354, 18256), (362, 18277), (372, 18307), (375, 18319), (381, 18352), (399, 18463), (400, 18466), (405, 18493), (407, 18499), (420, 18553), (421, 18556), (443, 18643), (445, 18658), (448, 18673), (464, 18763), (467, 18784), (469, 18793), (482, 18853), (483, 18856), (489, 18886), (494, 18910), (501, 18931), (522, 19027), (525, 19045), (528, 19054), (530, 19066), (536, 19102), (544, 19132), (549, 19153), (556, 19177), (559, 19213), (565, 19267), (576, 19327), (581, 19369), (601, 19447), (612, 19504), (616, 19528), (622, 19582), (626, 19630), (634, 19672), (636, 19696), (637, 19699),

Gene: Girr_18 Start: 17371, Stop: 19908, Start Num: 43

Candidate Starts for Girr_18:

(Start: 43 @17371 has 236 MA's), (52, 17392), (Start: 60 @17413 has 1 MA's), (75, 17452), (109, 17521), (113, 17530), (115, 17533), (124, 17551), (138, 17584), (143, 17599), (190, 17752), (195, 17761), (212, 17806), (232, 17905), (233, 17908), (246, 17974), (260, 18049), (261, 18055), (272, 18097), (273, 18103), (274, 18106), (291, 18139), (293, 18145), (301, 18175), (310, 18196), (316, 18226), (319, 18235), (323, 18250), (324, 18253), (346, 18364), (347, 18367), (348, 18376), (349, 18382), (352, 18397), (354, 18400), (362, 18421), (372, 18451), (375, 18463), (381, 18496), (399, 18607), (400, 18610), (405, 18637), (407, 18643), (420, 18697), (421, 18700), (443, 18787), (445, 18802), (447, 18814), (448, 18817), (459, 18883), (464, 18907), (467, 18928), (469, 18937), (478, 18979), (482, 18997), (483, 19000), (489, 19030), (494, 19054), (499, 19066), (501, 19075), (522, 19171), (525, 19189), (528, 19198), (530, 19210), (536, 19246), (544, 19276), (547, 19285), (549, 19297), (559, 19357), (565, 19411), (576, 19471), (581, 19513), (612, 19648), (616, 19672), (622, 19726), (626, 19774), (634, 19816), (636, 19840), (637, 19843),

Gene: Glexan_24 Start: 21900, Stop: 24296, Start Num: 80

Candidate Starts for Glexan_24:

(Start: 80 @21900 has 128 MA's), (157, 22077), (162, 22098), (220, 22245), (247, 22386), (254, 22419), (260, 22452), (268, 22488), (301, 22581), (319, 22641), (324, 22659), (350, 22791), (393, 22968), (399, 23013), (442, 23187), (445, 23208), (453, 23247), (456, 23268), (458, 23283), (491, 23439), (494, 23457), (508, 23511), (525, 23595), (583, 23919), (626, 24150), (637, 24234), (643, 24267),

Gene: GodSpeed_23 Start: 20676, Stop: 23147, Start Num: 39

Candidate Starts for GodSpeed_23:

(Start: 39 @20676 has 9 MA's), (77, 20784), (139, 20904), (166, 20982), (243, 21270), (252, 21315), (257, 21330), (272, 21396), (293, 21453), (320, 21543), (324, 21558), (341, 21639), (355, 21714), (375, 21771), (379, 21795), (386, 21831), (425, 22038), (436, 22092), (440, 22113), (458, 22215), (478, 22308), (480, 22326), (490, 22368), (510, 22473), (531, 22539), (539, 22581), (553, 22644), (556, 22653), (559, 22692), (569, 22779), (623, 23085), (625, 23121), (627, 23130),

Gene: Goku_26 Start: 21998, Stop: 24394, Start Num: 80

Candidate Starts for Goku_26:

(Start: 80 @21998 has 128 MA's), (157, 22175), (162, 22196), (220, 22343), (247, 22484), (254, 22517), (260, 22550), (268, 22586), (301, 22679), (319, 22739), (324, 22757), (341, 22838), (393, 23066), (399, 23111), (445, 23306), (446, 23312), (448, 23321), (456, 23366), (458, 23381), (491, 23537), (494, 23555), (497, 23564), (509, 23618), (525, 23693), (526, 23696), (564, 23906), (566, 23918), (591, 24032), (626, 24248), (637, 24332), (641, 24356), (643, 24365),

Gene: GoldenSpark_28 Start: 22274, Stop: 24670, Start Num: 80

Candidate Starts for GoldenSpark_28:

(Start: 80 @22274 has 128 MA's), (157, 22451), (162, 22472), (220, 22619), (254, 22793), (260, 22826), (268, 22862), (301, 22955), (319, 23015), (324, 23033), (350, 23165), (364, 23210), (393, 23342), (399, 23387), (416, 23447), (442, 23561), (445, 23582), (453, 23621), (456, 23642), (458, 23657), (489, 23807), (491, 23813), (494, 23831), (508, 23885), (525, 23969), (591, 24308), (626, 24524), (637, 24608), (643, 24641),

Gene: Goldilocks_27 Start: 21694, Stop: 24090, Start Num: 80

Candidate Starts for Goldilocks_27:

(Start: 80 @21694 has 128 MA's), (157, 21871), (162, 21892), (220, 22039), (247, 22180), (254, 22213), (260, 22246), (268, 22282), (301, 22375), (319, 22435), (324, 22453), (350, 22585), (364, 22630), (393, 22762), (399, 22807), (416, 22867), (442, 22981), (445, 23002), (453, 23041), (456, 23062), (458, 23077), (489, 23227), (491, 23233), (494, 23251), (508, 23305), (525, 23389), (547, 23482), (591, 23728), (626, 23944), (637, 24028), (643, 24061),

Gene: Gonephishing_34 Start: 28088, Stop: 30448, Start Num: 124

Candidate Starts for Gonephishing_34:

(Start: 43 @27893 has 236 MA's), (124, 28088), (138, 28124), (143, 28139), (160, 28187), (194, 28298), (195, 28301), (208, 28331), (212, 28346), (229, 28424), (233, 28448), (246, 28514), (255, 28559), (260, 28589), (261, 28595), (263, 28613), (272, 28637), (274, 28646), (291, 28679), (293, 28685), (301, 28715), (315, 28754), (316, 28766), (319, 28775), (323, 28790), (324, 28793), (346, 28904), (347, 28907), (348, 28916), (349, 28922), (352, 28937), (354, 28940), (372, 28991), (375, 29003), (381, 29036), (393, 29102), (399, 29147), (400, 29150), (405, 29177), (407, 29183), (420, 29237), (421, 29240), (443, 29327), (445, 29342), (447, 29354), (448, 29357), (459, 29423), (467, 29468), (469, 29477), (482, 29537), (483, 29540), (491, 29576), (494, 29594), (499, 29606), (501, 29615), (507, 29642), (522, 29711), (525, 29729), (528, 29738), (530, 29750), (536, 29786), (544, 29816), (549, 29837), (556, 29861), (559, 29897), (565, 29951), (576, 30011), (581, 30053), (612, 30188), (616, 30212), (622, 30266), (626, 30314), (634, 30356), (636, 30380), (637, 30383),

Gene: GooberAzure_28 Start: 22274, Stop: 24670, Start Num: 80

Candidate Starts for GooberAzure_28:

(Start: 80 @22274 has 128 MA's), (157, 22451), (162, 22472), (220, 22619), (247, 22760), (254, 22793), (260, 22826), (268, 22862), (301, 22955), (319, 23015), (324, 23033), (350, 23165), (364, 23210), (393, 23342), (399, 23387), (416, 23447), (442, 23561), (445, 23582), (453, 23621), (456, 23642), (458, 23657), (489, 23807), (491, 23813), (494, 23831), (508, 23885), (525, 23969), (547, 24062), (591, 24308), (626, 24524), (637, 24608), (643, 24641),

Gene: Gorge_18 Start: 17383, Stop: 19926, Start Num: 43

Candidate Starts for Gorge_18:

(Start: 43 @17383 has 236 MA's), (52, 17404), (Start: 60 @17425 has 1 MA's), (75, 17464), (109, 17533), (113, 17542), (115, 17545), (124, 17563), (143, 17611), (160, 17659), (194, 17770), (195, 17773), (210, 17806), (212, 17818), (229, 17896), (240, 17962), (247, 17995), (258, 18049), (260, 18061), (273, 18115), (274, 18118), (275, 18127), (294, 18160), (308, 18199), (310, 18202), (314, 18217), (315, 18220), (321, 18247), (322, 18253), (323, 18256), (324, 18259), (330, 18286), (333, 18304), (334, 18307), (348, 18382), (352, 18403), (354, 18406), (363, 18433), (372, 18457), (381, 18502), (382, 18505), (390, 18556), (400, 18619), (401, 18628), (407, 18652), (434, 18757), (435, 18760), (445, 18811), (446, 18817), (447, 18823), (448, 18826), (456, 18871), (458, 18886), (463, 18913), (467, 18937), (478, 18988), (482, 19006), (483, 19009), (484, 19021), (499, 19075), (525, 19198), (538, 19261), (554, 19324), (561, 19399), (603, 19600), (633, 19828), (639, 19867), (640, 19870),

Gene: Greep_27 Start: 22604, Stop: 25000, Start Num: 80

Candidate Starts for Greep_27:

(Start: 80 @22604 has 128 MA's), (157, 22781), (162, 22802), (220, 22949), (247, 23090), (254, 23123), (260, 23156), (268, 23192), (301, 23285), (319, 23345), (324, 23363), (350, 23495), (364, 23540), (393, 23672), (399, 23717), (442, 23891), (445, 23912), (453, 23951), (456, 23972), (458, 23987), (491, 24143), (494, 24161), (508, 24215), (525, 24299), (547, 24392), (591, 24638), (626, 24854), (637, 24938), (643, 24971),

Gene: Grimmer_19 Start: 18060, Stop: 20597, Start Num: 43

Candidate Starts for Grimmer_19:

(Start: 43 @18060 has 236 MA's), (52, 18081), (Start: 60 @18102 has 1 MA's), (75, 18141), (109, 18210), (113, 18219), (115, 18222), (124, 18240), (143, 18288), (194, 18447), (195, 18450), (212, 18495), (229, 18573), (232, 18594), (233, 18597), (246, 18663), (260, 18738), (261, 18744), (272, 18786), (273, 18792), (274, 18795), (291, 18828), (293, 18834), (301, 18864), (310, 18885), (316, 18915), (319, 18924), (342, 19032), (345, 19044), (346, 19053), (347, 19056), (348, 19065), (349, 19071), (352, 19086), (354, 19089), (362, 19110), (372, 19140), (375, 19152), (381, 19185), (382, 19188), (393, 19251), (399, 19296), (400, 19299), (405, 19326), (407, 19332), (420, 19386), (421, 19389), (428, 19416), (445, 19491), (447, 19503), (448, 19506), (459, 19572), (463, 19593), (464, 19596), (467, 19617), (482, 19686), (483, 19689), (491, 19725), (494, 19743), (501, 19764), (522, 19860), (525, 19878), (528, 19887), (530, 19899), (536, 19935), (544, 19965), (559, 20046), (565, 20100), (581, 20202), (612, 20337), (616, 20361), (622, 20415), (631, 20484), (636, 20529), (637, 20532),

Gene: Guanica15_27 Start: 20098, Stop: 22530, Start Num: 88

Candidate Starts for Guanica15_27:

(Start: 88 @20098 has 96 MA's), (109, 20146), (110, 20149), (115, 20158), (218, 20458), (223, 20479), (272, 20719), (297, 20821), (303, 20845), (304, 20851), (316, 20890), (346, 21043), (356, 21100), (360, 21109), (375, 21160), (407, 21346), (410, 21355), (412, 21361), (420, 21406), (424, 21424), (440, 21499), (448, 21541), (456, 21580), (457, 21586), (458, 21595), (462, 21616), (471, 21664), (482, 21709), (484, 21724), (501, 21793), (509, 21835), (529, 21916), (548, 22009), (553, 22030), (565, 22126), (610, 22354), (617, 22408), (619, 22429), (626, 22501), (629, 22519),

Gene: Guppsters_19 Start: 17584, Stop: 20109, Start Num: 43

Candidate Starts for Guppsters_19:

(Start: 43 @17584 has 236 MA's), (83, 17674), (109, 17734), (113, 17743), (115, 17746), (124, 17764), (143, 17812), (159, 17857), (194, 17971), (195, 17974), (202, 17995), (210, 18007), (212, 18019), (229, 18097), (240, 18163), (247, 18196), (258, 18250), (260, 18262), (273, 18316), (274, 18319), (275, 18328), (294, 18361), (310, 18403), (314, 18418), (321, 18448), (322, 18454), (323, 18457), (324, 18460), (330, 18487), (333, 18505), (334, 18508), (348, 18583), (352, 18604), (354, 18607), (363, 18634), (372, 18658), (375, 18670), (390, 18757), (400, 18820), (401, 18829), (407, 18853), (434, 18958), (435, 18961), (445, 19012), (446, 19018), (447, 19024), (448, 19027), (456, 19072), (458, 19087), (463, 19114), (467, 19138), (469, 19147), (482, 19207), (483, 19210), (484, 19222), (494, 19264), (499, 19276), (525, 19399), (538, 19462), (554, 19525), (561, 19600), (603, 19801), (626, 19972), (633, 20011), (639, 20050), (640, 20053),

Gene: Hades_18 Start: 17406, Stop: 19958, Start Num: 43

Candidate Starts for Hades_18:

(Start: 43 @17406 has 236 MA's), (83, 17496), (109, 17556), (113, 17565), (115, 17568), (124, 17586), (143, 17634), (159, 17679), (194, 17793), (195, 17796), (199, 17808), (209, 17829), (211, 17838), (212, 17841), (229, 17919), (240, 17985), (247, 18018), (255, 18054), (259, 18078), (273, 18138), (274, 18141), (279, 18159), (308, 18222), (310, 18225), (315, 18243), (319, 18264), (324, 18282), (330, 18309), (334, 18330), (341, 18363), (348, 18405), (349, 18411), (350, 18414), (354, 18429), (363, 18456), (364, 18459), (372, 18480), (375, 18492), (381, 18525), (397, 18618), (420, 18726),

(426, 18750), (428, 18756), (433, 18774), (434, 18777), (439, 18801), (445, 18831), (450, 18855), (456, 18891), (457, 18897), (458, 18906), (463, 18933), (473, 18996), (478, 19020), (479, 19035), (489, 19077), (502, 19128), (523, 19224), (525, 19239), (528, 19248), (533, 19272), (547, 19335), (556, 19371), (609, 19677), (616, 19722), (626, 19824),

Gene: Hamulus_18 Start: 17403, Stop: 19940, Start Num: 43

Candidate Starts for Hamulus_18:

(35, 17391), (Start: 43 @17403 has 236 MA's), (52, 17424), (Start: 60 @17445 has 1 MA's), (75, 17484), (109, 17553), (113, 17562), (115, 17565), (124, 17583), (138, 17616), (143, 17631), (160, 17679), (190, 17784), (194, 17790), (195, 17793), (208, 17823), (211, 17835), (212, 17838), (229, 17916), (233, 17940), (246, 18006), (260, 18081), (261, 18087), (263, 18105), (272, 18129), (274, 18138), (291, 18171), (293, 18177), (301, 18207), (315, 18246), (316, 18258), (319, 18267), (323, 18282), (324, 18285), (346, 18396), (347, 18399), (348, 18408), (349, 18414), (352, 18429), (354, 18432), (362, 18453), (372, 18483), (375, 18495), (381, 18528), (393, 18594), (399, 18639), (400, 18642), (405, 18669), (407, 18675), (420, 18729), (421, 18732), (443, 18819), (445, 18834), (447, 18846), (448, 18849), (459, 18915), (467, 18960), (469, 18969), (482, 19029), (483, 19032), (491, 19068), (494, 19086), (499, 19098), (501, 19107), (507, 19134), (522, 19203), (525, 19221), (528, 19230), (530, 19242), (536, 19278), (544, 19308), (549, 19329), (556, 19353), (559, 19389), (565, 19443), (576, 19503), (581, 19545), (612, 19680), (616, 19704), (622, 19758), (626, 19806), (634, 19848), (636, 19872), (637, 19875),

Gene: HanKaySha_27 Start: 22026, Stop: 24422, Start Num: 80

Candidate Starts for HanKaySha_27:

(Start: 80 @22026 has 128 MA's), (157, 22203), (162, 22224), (220, 22371), (254, 22545), (260, 22578), (268, 22614), (301, 22707), (319, 22767), (324, 22785), (350, 22917), (364, 22962), (393, 23094), (399, 23139), (416, 23199), (442, 23313), (445, 23334), (453, 23373), (456, 23394), (458, 23409), (489, 23559), (491, 23565), (494, 23583), (508, 23637), (525, 23721), (547, 23814), (591, 24060), (626, 24276), (637, 24360), (643, 24393),

Gene: Hannaconda_33 Start: 26378, Stop: 28873, Start Num: 43

Candidate Starts for Hannaconda_33:

(Start: 43 @26378 has 236 MA's), (124, 26573), (138, 26609), (143, 26624), (179, 26711), (184, 26726), (195, 26762), (197, 26768), (212, 26801), (215, 26813), (252, 26984), (255, 26993), (260, 27017), (273, 27071), (291, 27107), (293, 27113), (301, 27143), (312, 27173), (316, 27194), (319, 27203), (323, 27218), (338, 27287), (354, 27368), (357, 27377), (364, 27398), (365, 27401), (375, 27431), (382, 27467), (390, 27518), (391, 27527), (393, 27530), (397, 27557), (398, 27566), (401, 27587), (420, 27665), (421, 27668), (439, 27740), (446, 27776), (447, 27782), (455, 27824), (456, 27830), (463, 27872), (464, 27875), (467, 27896), (468, 27902), (469, 27905), (476, 27935), (506, 28076), (508, 28085), (509, 28094), (517, 28127), (522, 28151), (523, 28154), (525, 28169), (530, 28190), (536, 28226), (538, 28232), (540, 28238), (545, 28259), (552, 28286), (569, 28421), (580, 28493), (582, 28499), (591, 28517), (612, 28616), (626, 28733), (638, 28814), (640, 28817), (643, 28844),

Gene: Harella_25 Start: 22416, Stop: 24812, Start Num: 80

Candidate Starts for Harella_25:

(Start: 80 @22416 has 128 MA's), (157, 22593), (162, 22614), (220, 22761), (247, 22902), (254, 22935), (260, 22968), (268, 23004), (301, 23097), (319, 23157), (324, 23175), (350, 23307), (393, 23484), (399, 23529), (442, 23703), (445, 23724), (453, 23763), (456, 23784), (458, 23799), (491, 23955), (494, 23973), (508, 24027), (525, 24111), (583, 24435), (626, 24666), (637, 24750), (643, 24783),

Gene: Harley_18 Start: 17393, Stop: 19930, Start Num: 43

Candidate Starts for Harley_18:

(Start: 43 @17393 has 236 MA's), (52, 17414), (Start: 60 @17435 has 1 MA's), (75, 17474), (109, 17543), (113, 17552), (115, 17555), (124, 17573), (143, 17621), (194, 17780), (195, 17783), (212, 17828), (232, 17927), (233, 17930), (246, 17996), (260, 18071), (261, 18077), (263, 18095), (272, 18119), (273, 18125), (274, 18128), (291, 18161), (293, 18167), (301, 18197), (310, 18218), (315, 18236), (319, 18257), (342, 18365), (345, 18377), (346, 18386), (347, 18389), (348, 18398), (349, 18404), (352, 18419), (354, 18422), (362, 18443), (375, 18485), (381, 18518), (382, 18521), (393, 18584), (399, 18629), (400, 18632), (407, 18665), (420, 18719), (421, 18722), (428, 18749), (445, 18824), (447, 18836), (448, 18839), (459, 18905), (463, 18926), (464, 18929), (467, 18950), (478, 19001), (482, 19019), (483, 19022), (489, 19052), (494, 19076), (499, 19088), (501, 19097), (522, 19193), (525, 19211), (528, 19220), (530, 19232), (536, 19268), (544, 19298), (547, 19307), (549, 19319), (556, 19343), (559, 19379), (576, 19493), (581, 19535), (612, 19670), (616, 19694), (622, 19748), (626, 19796), (631, 19817), (636, 19862), (637, 19865),

Gene: HedwigODU_27 Start: 20881, Stop: 23313, Start Num: 88

Candidate Starts for HedwigODU_27:

(Start: 88 @20881 has 96 MA's), (132, 20980), (218, 21241), (223, 21262), (263, 21469), (272, 21502), (276, 21532), (297, 21604), (303, 21628), (316, 21673), (346, 21826), (353, 21871), (356, 21883), (360, 21892), (375, 21943), (406, 22123), (410, 22138), (424, 22207), (428, 22219), (448, 22324), (456, 22363), (457, 22369), (458, 22378), (475, 22459), (484, 22507), (502, 22582), (509, 22618), (529, 22699), (534, 22720), (553, 22813), (565, 22909), (594, 23056), (602, 23098), (610, 23137), (619, 23212),

Gene: Hegedechwinu_19 Start: 17254, Stop: 19785, Start Num: 43

Candidate Starts for Hegedechwinu_19:

(35, 17242), (Start: 43 @17254 has 236 MA's), (52, 17275), (Start: 60 @17296 has 1 MA's), (75, 17335), (109, 17404), (113, 17413), (115, 17416), (124, 17434), (138, 17467), (143, 17482), (160, 17524), (194, 17635), (195, 17638), (208, 17668), (212, 17683), (229, 17761), (246, 17851), (255, 17896), (260, 17926), (261, 17932), (263, 17950), (272, 17974), (274, 17983), (291, 18016), (293, 18022), (301, 18052), (315, 18091), (316, 18103), (319, 18112), (323, 18127), (324, 18130), (346, 18241), (347, 18244), (348, 18253), (349, 18259), (352, 18274), (354, 18277), (362, 18298), (372, 18328), (375, 18340), (381, 18373), (399, 18484), (400, 18487), (405, 18514), (407, 18520), (420, 18574), (421, 18577), (445, 18679), (447, 18691), (448, 18694), (459, 18760), (464, 18784), (467, 18805), (469, 18814), (482, 18874), (483, 18877), (491, 18913), (494, 18931), (499, 18943), (501, 18952), (507, 18979), (522, 19048), (525, 19066), (528, 19075), (530, 19087), (536, 19123), (544, 19153), (549, 19174), (556, 19198), (559, 19234), (565, 19288), (576, 19348), (581, 19390), (601, 19468), (612, 19525), (616, 19549), (622, 19603), (626, 19651), (634, 19693), (636, 19717), (637, 19720),

Gene: Henry_26 Start: 22283, Stop: 24679, Start Num: 80

Candidate Starts for Henry_26:

(Start: 80 @22283 has 128 MA's), (157, 22460), (162, 22481), (220, 22628), (247, 22769), (254, 22802), (260, 22835), (268, 22871), (301, 22964), (319, 23024), (324, 23042), (357, 23198), (364, 23219), (390, 23339), (393, 23351), (399, 23396), (445, 23591), (448, 23606), (456, 23651), (458, 23666), (491, 23822), (494, 23840), (497, 23849), (525, 23978), (526, 23981), (564, 24191), (566, 24203), (591, 24317), (626, 24533), (637, 24617), (641, 24641), (643, 24650),

Gene: Highbury_27 Start: 21945, Stop: 24341, Start Num: 80

Candidate Starts for Highbury_27:

(Start: 80 @21945 has 128 MA's), (157, 22122), (162, 22143), (220, 22290), (247, 22431), (254, 22464), (260, 22497), (268, 22533), (301, 22626), (319, 22686), (324, 22704), (350, 22836), (364, 22881), (393, 23013), (399, 23058), (416, 23118), (442, 23232), (445, 23253), (453, 23292), (456, 23313), (458, 23328), (489, 23478), (491, 23484), (494, 23502), (508, 23556), (525, 23640), (547, 23733), (591, 23979), (626, 24195), (637, 24279), (643, 24312),

Gene: Hlubikazi_18 Start: 17495, Stop: 20032, Start Num: 43

Candidate Starts for Hlubikazi_18:

(Start: 43 @17495 has 236 MA's), (52, 17516), (Start: 60 @17537 has 1 MA's), (75, 17576), (109, 17645), (113, 17654), (115, 17657), (124, 17675), (143, 17723), (194, 17882), (195, 17885), (211, 17927), (212, 17930), (229, 18008), (232, 18029), (233, 18032), (246, 18098), (260, 18173), (261, 18179), (272, 18221), (273, 18227), (274, 18230), (291, 18263), (293, 18269), (301, 18299), (310, 18320), (316, 18350), (319, 18359), (342, 18467), (345, 18479), (346, 18488), (347, 18491), (348, 18500), (349, 18506), (352, 18521), (354, 18524), (362, 18545), (375, 18587), (381, 18620), (405, 18761), (407, 18767), (420, 18821), (421, 18824), (428, 18851), (445, 18926), (447, 18938), (448, 18941), (459, 19007), (464, 19031), (467, 19052), (469, 19061), (482, 19121), (483, 19124), (491, 19160), (494, 19178), (501, 19199), (507, 19226), (522, 19295), (525, 19313), (528, 19322), (530, 19334), (536, 19370), (544, 19400), (559, 19481), (576, 19595), (581, 19637), (612, 19772), (616, 19796), (622, 19850), (636, 19964), (637, 19967),

Gene: Holt_27 Start: 21564, Stop: 23960, Start Num: 80

Candidate Starts for Holt_27:

(Start: 80 @21564 has 128 MA's), (157, 21741), (162, 21762), (220, 21909), (247, 22050), (254, 22083), (260, 22116), (268, 22152), (301, 22245), (319, 22305), (324, 22323), (350, 22455), (364, 22500), (393, 22632), (399, 22677), (416, 22737), (442, 22851), (445, 22872), (453, 22911), (456, 22932), (458, 22947), (489, 23097), (491, 23103), (494, 23121), (508, 23175), (525, 23259), (547, 23352), (591, 23598), (626, 23814), (637, 23898), (643, 23931),

Gene: Homura_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Homura_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Hoonter_28 Start: 22274, Stop: 24670, Start Num: 80

Candidate Starts for Hoonter_28:

(Start: 80 @22274 has 128 MA's), (157, 22451), (162, 22472), (220, 22619), (254, 22793), (260, 22826), (268, 22862), (301, 22955), (319, 23015), (324, 23033), (350, 23165), (364, 23210), (393, 23342), (399, 23387), (416, 23447), (442, 23561), (445, 23582), (453, 23621), (456, 23642), (458, 23657), (489, 23807), (491, 23813), (494, 23831), (508, 23885), (525, 23969), (547, 24062), (591, 24308), (626, 24524), (637, 24608), (643, 24641),

Gene: Hopey_28 Start: 22561, Stop: 24957, Start Num: 80

Candidate Starts for Hopey_28:

(Start: 80 @22561 has 128 MA's), (157, 22738), (162, 22759), (220, 22906), (254, 23080), (260, 23113), (268, 23149), (301, 23242), (319, 23302), (324, 23320), (350, 23452), (364, 23497), (393, 23629), (399, 23674), (416, 23734), (442, 23848), (445, 23869), (453, 23908), (456, 23929), (458, 23944), (489, 24094), (491, 24100), (494, 24118), (508, 24172), (525, 24256), (547, 24349), (591, 24595), (626, 24811), (637, 24895), (643, 24928),

Gene: Hosp_024 Start: 25768, Stop: 28263, Start Num: 47

Candidate Starts for Hosp_024:

(Start: 47 @25768 has 6 MA's), (68, 25825), (85, 25882), (139, 26002), (149, 26020), (170, 26092), (174, 26098), (192, 26152), (203, 26188), (243, 26371), (252, 26416), (260, 26455), (273, 26509), (292, 26557), (300, 26587), (311, 26614), (319, 26650), (324, 26668), (329, 26692), (334, 26716),

(350, 26800), (361, 26836), (372, 26866), (379, 26902), (383, 26920), (420, 27127), (422, 27139), (425, 27148), (440, 27223), (441, 27226), (443, 27235), (448, 27265), (449, 27268), (456, 27310), (458, 27325), (474, 27406), (478, 27418), (482, 27442), (484, 27457), (486, 27463), (504, 27544), (528, 27634), (531, 27649), (565, 27859), (567, 27880), (571, 27898), (623, 28195),

Gene: HufflyPuff_25 Start: 22268, Stop: 24664, Start Num: 80

Candidate Starts for HufflyPuff_25:

(Start: 80 @22268 has 128 MA's), (157, 22445), (162, 22466), (220, 22613), (247, 22754), (254, 22787), (260, 22820), (268, 22856), (301, 22949), (319, 23009), (324, 23027), (350, 23159), (364, 23204), (393, 23336), (399, 23381), (416, 23441), (442, 23555), (445, 23576), (453, 23615), (456, 23636), (458, 23651), (489, 23801), (491, 23807), (494, 23825), (508, 23879), (525, 23963), (547, 24056), (591, 24302), (626, 24518), (637, 24602), (643, 24635),

Gene: Hyperbowlee_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Hyperbowlee_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: IHOP_26 Start: 22460, Stop: 24856, Start Num: 80

Candidate Starts for IHOP_26:

(Start: 80 @22460 has 128 MA's), (157, 22637), (162, 22658), (220, 22805), (247, 22946), (254, 22979), (260, 23012), (268, 23048), (301, 23141), (319, 23201), (324, 23219), (357, 23375), (364, 23396), (390, 23516), (393, 23528), (399, 23573), (445, 23768), (446, 23774), (448, 23783), (456, 23828), (458, 23843), (491, 23999), (494, 24017), (497, 24026), (509, 24080), (525, 24155), (526, 24158), (564, 24368), (566, 24380), (591, 24494), (626, 24710), (637, 24794), (641, 24818), (643, 24827),

Gene: IMpilo_18 Start: 17430, Stop: 19967, Start Num: 43

Candidate Starts for IMpilo_18:

(35, 17418), (Start: 43 @17430 has 236 MA's), (52, 17451), (Start: 60 @17472 has 1 MA's), (75, 17511), (109, 17580), (113, 17589), (115, 17592), (124, 17610), (138, 17643), (143, 17658), (160, 17706), (194, 17817), (195, 17820), (208, 17850), (211, 17862), (212, 17865), (229, 17943), (233, 17967), (246, 18033), (255, 18078), (260, 18108), (261, 18114), (263, 18132), (272, 18156), (274, 18165), (291, 18198), (293, 18204), (301, 18234), (315, 18273), (316, 18285), (319, 18294), (323, 18309), (324, 18312), (346, 18423), (347, 18426), (348, 18435), (349, 18441), (352, 18456), (354, 18459), (362, 18480), (372, 18510), (375, 18522), (381, 18555), (399, 18666), (400, 18669), (405, 18696), (407, 18702), (420, 18756), (421, 18759), (445, 18861), (447, 18873), (448, 18876), (459, 18942), (464, 18966), (467, 18987), (469, 18996), (482, 19056), (483, 19059), (491, 19095), (494, 19113), (499, 19125), (501, 19134), (507, 19161), (522, 19230), (525, 19248), (528, 19257), (530, 19269), (536, 19305), (544, 19335), (549, 19356), (556, 19380), (559, 19416), (565, 19470), (576, 19530), (581, 19572), (601, 19650), (612, 19707), (616, 19731), (622, 19785), (626, 19833), (634, 19875), (636, 19899), (637, 19902),

Gene: IbOuu_18 Start: 17397, Stop: 19934, Start Num: 43

Candidate Starts for IbOuu_18:

(35, 17385), (Start: 43 @17397 has 236 MA's), (52, 17418), (Start: 60 @17439 has 1 MA's), (75, 17478), (109, 17547), (113, 17556), (115, 17559), (124, 17577), (143, 17625), (160, 17673), (194, 17784), (195, 17787), (212, 17832), (229, 17910), (233, 17934), (246, 18000), (255, 18045), (260, 18075), (261, 18081), (263, 18099), (272, 18123), (274, 18132), (291, 18165), (293, 18171), (301,

18201), (315, 18240), (316, 18252), (319, 18261), (323, 18276), (324, 18279), (346, 18390), (347, 18393), (348, 18402), (349, 18408), (352, 18423), (354, 18426), (362, 18447), (372, 18477), (375, 18489), (381, 18522), (399, 18633), (400, 18636), (405, 18663), (407, 18669), (420, 18723), (421, 18726), (445, 18828), (447, 18840), (448, 18843), (459, 18909), (464, 18933), (467, 18954), (469, 18963), (482, 19023), (483, 19026), (491, 19062), (494, 19080), (501, 19101), (507, 19128), (522, 19197), (525, 19215), (528, 19224), (530, 19236), (536, 19272), (549, 19323), (554, 19341), (559, 19383), (565, 19437), (581, 19539), (612, 19674), (616, 19698), (622, 19752), (631, 19821), (636, 19866), (637, 19869),

Gene: Ibhubesi_18 Start: 17393, Stop: 19930, Start Num: 43

Candidate Starts for Ibhubesi_18:

(Start: 43 @17393 has 236 MA's), (52, 17414), (Start: 60 @17435 has 1 MA's), (75, 17474), (109, 17543), (113, 17552), (115, 17555), (124, 17573), (143, 17621), (194, 17780), (195, 17783), (212, 17828), (232, 17927), (233, 17930), (246, 17996), (260, 18071), (261, 18077), (263, 18095), (272, 18119), (273, 18125), (274, 18128), (291, 18161), (293, 18167), (301, 18197), (310, 18218), (315, 18236), (319, 18257), (342, 18365), (345, 18377), (346, 18386), (347, 18389), (348, 18398), (349, 18404), (352, 18419), (354, 18422), (362, 18443), (375, 18485), (381, 18518), (382, 18521), (393, 18584), (399, 18629), (400, 18632), (407, 18665), (420, 18719), (421, 18722), (428, 18749), (445, 18824), (447, 18836), (448, 18839), (459, 18905), (463, 18926), (464, 18929), (467, 18950), (478, 19001), (482, 19019), (483, 19022), (489, 19052), (494, 19076), (499, 19088), (501, 19097), (522, 19193), (525, 19211), (528, 19220), (530, 19232), (536, 19268), (544, 19298), (547, 19307), (549, 19319), (556, 19343), (559, 19379), (576, 19493), (581, 19535), (612, 19670), (616, 19694), (622, 19748), (626, 19796), (631, 19817), (636, 19862), (637, 19865),

Gene: Icee_25 Start: 21943, Stop: 24339, Start Num: 80

Candidate Starts for Icee_25:

(Start: 80 @21943 has 128 MA's), (157, 22120), (162, 22141), (220, 22288), (247, 22429), (254, 22462), (260, 22495), (268, 22531), (301, 22624), (319, 22684), (324, 22702), (341, 22783), (393, 23011), (399, 23056), (445, 23251), (446, 23257), (448, 23266), (456, 23311), (458, 23326), (491, 23482), (494, 23500), (497, 23509), (525, 23638), (526, 23641), (564, 23851), (566, 23863), (591, 23977), (626, 24193), (637, 24277), (641, 24301), (643, 24310),

Gene: Idergollasper_58 Start: 36096, Stop: 38606, Start Num: 57

Candidate Starts for Idergollasper_58:

(Start: 57 @36096 has 33 MA's), (69, 36129), (93, 36198), (95, 36201), (106, 36225), (115, 36249), (126, 36273), (138, 36306), (200, 36513), (203, 36525), (204, 36528), (237, 36675), (240, 36705), (246, 36729), (255, 36759), (256, 36762), (260, 36789), (263, 36813), (273, 36843), (296, 36900), (302, 36924), (315, 36960), (316, 36972), (323, 36996), (324, 36999), (332, 37041), (352, 37137), (354, 37140), (413, 37395), (445, 37539), (456, 37599), (466, 37671), (467, 37674), (488, 37770), (525, 37944), (530, 37965), (552, 38058), (555, 38070), (565, 38160), (579, 38235), (598, 38280), (630, 38481), (635, 38535), (640, 38550),

Gene: Illumine_27 Start: 20895, Stop: 23327, Start Num: 88

Candidate Starts for Illumine_27:

(Start: 88 @20895 has 96 MA's), (109, 20943), (132, 20994), (218, 21255), (223, 21276), (263, 21483), (272, 21516), (276, 21546), (297, 21618), (303, 21642), (316, 21687), (346, 21840), (356, 21897), (360, 21906), (371, 21942), (375, 21957), (406, 22137), (410, 22152), (424, 22221), (428, 22233), (440, 22296), (448, 22338), (456, 22377), (457, 22383), (458, 22392), (462, 22413), (475, 22473), (484, 22521), (498, 22578), (501, 22590), (509, 22632), (527, 22704), (529, 22713), (548, 22806), (553, 22827), (565, 22923), (575, 22977), (594, 23070), (610, 23151), (626, 23298),

Gene: Imara_56 Start: 35896, Stop: 38406, Start Num: 57

Candidate Starts for Imara_56:

(Start: 57 @35896 has 33 MA's), (69, 35929), (93, 35998), (95, 36001), (106, 36025), (115, 36049), (126, 36073), (138, 36106), (200, 36313), (203, 36325), (204, 36328), (237, 36475), (240, 36505), (246, 36529), (255, 36559), (256, 36562), (260, 36589), (263, 36613), (273, 36643), (296, 36700), (302, 36724), (315, 36760), (316, 36772), (323, 36796), (324, 36799), (332, 36841), (352, 36937), (354, 36940), (413, 37195), (445, 37339), (456, 37399), (466, 37471), (467, 37474), (488, 37570), (525, 37744), (530, 37765), (552, 37858), (555, 37870), (565, 37960), (579, 38035), (598, 38080), (630, 38281), (635, 38335), (640, 38350),

Gene: Inca_25 Start: 20963, Stop: 23359, Start Num: 80

Candidate Starts for Inca_25:

(Start: 80 @20963 has 128 MA's), (157, 21140), (162, 21161), (220, 21308), (247, 21449), (254, 21482), (260, 21515), (268, 21551), (301, 21644), (319, 21704), (324, 21722), (350, 21854), (364, 21899), (393, 22031), (399, 22076), (416, 22136), (442, 22250), (445, 22271), (453, 22310), (456, 22331), (458, 22346), (489, 22496), (491, 22502), (494, 22520), (508, 22574), (525, 22658), (547, 22751), (591, 22997), (626, 23213), (637, 23297), (643, 23330),

Gene: Inky_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Inky_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Inventum_18 Start: 17532, Stop: 20069, Start Num: 43

Candidate Starts for Inventum_18:

(Start: 43 @17532 has 236 MA's), (52, 17553), (Start: 60 @17574 has 1 MA's), (75, 17613), (109, 17682), (113, 17691), (115, 17694), (124, 17712), (143, 17760), (160, 17808), (194, 17919), (195, 17922), (212, 17967), (229, 18045), (233, 18069), (246, 18135), (260, 18210), (261, 18216), (263, 18234), (272, 18258), (274, 18267), (291, 18300), (293, 18306), (301, 18336), (310, 18357), (316, 18387), (319, 18396), (342, 18504), (345, 18516), (346, 18525), (347, 18528), (349, 18543), (352, 18558), (354, 18561), (362, 18582), (375, 18624), (381, 18657), (399, 18768), (400, 18771), (405, 18798), (407, 18804), (420, 18858), (421, 18861), (428, 18888), (445, 18963), (447, 18975), (448, 18978), (459, 19044), (463, 19065), (464, 19068), (467, 19089), (469, 19098), (478, 19140), (482, 19158), (483, 19161), (489, 19191), (494, 19215), (499, 19227), (501, 19236), (522, 19332), (525, 19350), (528, 19359), (530, 19371), (536, 19407), (544, 19437), (547, 19446), (549, 19458), (559, 19518), (565, 19572), (576, 19632), (581, 19674), (612, 19809), (616, 19833), (622, 19887), (626, 19935), (634, 19977), (636, 20001), (637, 20004),

Gene: IrishSherpFalk_19 Start: 18757, Stop: 21294, Start Num: 43

Candidate Starts for IrishSherpFalk_19:

(Start: 43 @18757 has 236 MA's), (52, 18778), (Start: 60 @18799 has 1 MA's), (75, 18838), (109, 18907), (113, 18916), (115, 18919), (124, 18937), (143, 18985), (190, 19138), (195, 19147), (212, 19192), (232, 19291), (233, 19294), (246, 19360), (260, 19435), (261, 19441), (263, 19459), (272, 19483), (273, 19489), (274, 19492), (291, 19525), (293, 19531), (301, 19561), (310, 19582), (316, 19612), (319, 19621), (323, 19636), (324, 19639), (346, 19750), (347, 19753), (348, 19762), (349, 19768), (352, 19783), (354, 19786), (362, 19807), (372, 19837), (375, 19849), (381, 19882), (399, 19993), (400, 19996), (405, 20023), (407, 20029), (420, 20083), (421, 20086), (443, 20173), (445, 20188), (447, 20200), (448, 20203), (459, 20269), (464, 20293), (467, 20314), (469, 20323), (482, 20383), (483, 20386), (491, 20422), (494, 20440), (499, 20452), (501, 20461), (507, 20488), (521, 20545), (522, 20557), (525, 20575), (528, 20584), (530, 20596), (536, 20632), (544, 20662), (547, 20671), (549, 20683), (559, 20743), (565, 20797), (576, 20857), (581, 20899), (612, 21034), (616,

21058), (622, 21112), (626, 21160), (634, 21202), (636, 21226), (637, 21229),

Gene: Island3_21 Start: 19089, Stop: 21620, Start Num: 54

Candidate Starts for Island3_21:

(Start: 54 @19089 has 2 MA's), (62, 19113), (99, 19224), (104, 19233), (115, 19260), (164, 19407), (232, 19674), (237, 19689), (240, 19719), (242, 19725), (246, 19743), (272, 19851), (293, 19902), (324, 20013), (325, 20016), (332, 20055), (341, 20088), (354, 20154), (375, 20214), (380, 20241), (381, 20247), (445, 20553), (456, 20613), (462, 20661), (463, 20664), (466, 20685), (467, 20688), (525, 20949), (554, 21072), (555, 21075), (565, 21165), (576, 21222), (579, 21243), (603, 21303), (632, 21504), (635, 21546),

Gene: JAWS_27 Start: 20866, Stop: 23298, Start Num: 88

Candidate Starts for JAWS_27:

(Start: 88 @20866 has 96 MA's), (132, 20965), (218, 21226), (223, 21247), (263, 21454), (272, 21487), (276, 21517), (297, 21589), (303, 21613), (346, 21811), (353, 21856), (356, 21868), (360, 21877), (375, 21928), (406, 22108), (410, 22123), (424, 22192), (428, 22204), (440, 22267), (448, 22309), (456, 22348), (457, 22354), (458, 22363), (462, 22384), (475, 22444), (501, 22561), (509, 22603), (527, 22675), (529, 22684), (534, 22705), (548, 22777), (553, 22798), (565, 22894), (594, 23041), (610, 23122), (626, 23269),

Gene: Jabbawokkie_26 Start: 17616, Stop: 20168, Start Num: 27

Candidate Starts for Jabbawokkie_26:

(24, 17607), (Start: 27 @17616 has 7 MA's), (Start: 43 @17676 has 236 MA's), (58, 17712), (104, 17811), (160, 17952), (179, 17991), (184, 18006), (195, 18042), (197, 18048), (198, 18051), (210, 18069), (215, 18093), (222, 18117), (223, 18120), (252, 18264), (255, 18273), (260, 18297), (263, 18321), (272, 18345), (273, 18351), (279, 18372), (281, 18375), (293, 18393), (301, 18426), (312, 18456), (316, 18477), (338, 18570), (341, 18585), (342, 18594), (346, 18615), (347, 18618), (357, 18660), (372, 18702), (373, 18705), (375, 18714), (380, 18741), (382, 18750), (388, 18789), (391, 18810), (393, 18813), (398, 18849), (401, 18870), (420, 18948), (421, 18951), (436, 19005), (447, 19065), (462, 19152), (464, 19158), (467, 19179), (476, 19215), (487, 19269), (489, 19278), (506, 19356), (509, 19374), (518, 19410), (519, 19413), (522, 19431), (525, 19449), (536, 19506), (540, 19518), (556, 19581), (559, 19614), (569, 19701), (578, 19749), (580, 19773), (591, 19809), (600, 19848), (608, 19887), (612, 19911), (615, 19932), (626, 20028), (631, 20049), (638, 20109), (640, 20112), (643, 20139),

Gene: JalFarm20_20 Start: 17767, Stop: 20304, Start Num: 43

Candidate Starts for JalFarm20_20:

(35, 17755), (Start: 43 @17767 has 236 MA's), (52, 17788), (Start: 60 @17809 has 1 MA's), (75, 17848), (109, 17917), (113, 17926), (115, 17929), (124, 17947), (138, 17980), (143, 17995), (160, 18043), (194, 18154), (195, 18157), (208, 18187), (211, 18199), (212, 18202), (229, 18280), (233, 18304), (246, 18370), (255, 18415), (260, 18445), (261, 18451), (263, 18469), (272, 18493), (274, 18502), (291, 18535), (293, 18541), (301, 18571), (315, 18610), (316, 18622), (319, 18631), (323, 18646), (324, 18649), (346, 18760), (347, 18763), (348, 18772), (349, 18778), (352, 18793), (354, 18796), (362, 18817), (372, 18847), (375, 18859), (381, 18892), (399, 19003), (400, 19006), (405, 19033), (407, 19039), (420, 19093), (421, 19096), (443, 19183), (445, 19198), (447, 19210), (448, 19213), (459, 19279), (464, 19303), (467, 19324), (469, 19333), (482, 19393), (483, 19396), (491, 19432), (494, 19450), (499, 19462), (501, 19471), (507, 19498), (522, 19567), (525, 19585), (528, 19594), (530, 19606), (536, 19642), (544, 19672), (549, 19693), (556, 19717), (559, 19753), (565, 19807), (576, 19867), (581, 19909), (601, 19987), (612, 20044), (616, 20068), (622, 20122), (626, 20170), (634, 20212), (636, 20236), (637, 20239),

Gene: James_18 Start: 17397, Stop: 19922, Start Num: 43

Candidate Starts for James_18:

(Start: 43 @17397 has 236 MA's), (52, 17418), (Start: 60 @17439 has 1 MA's), (75, 17478), (109, 17547), (113, 17556), (115, 17559), (124, 17577), (143, 17625), (160, 17673), (194, 17784), (195, 17787), (210, 17820), (212, 17832), (229, 17910), (240, 17976), (247, 18009), (258, 18063), (260, 18075), (273, 18129), (274, 18132), (275, 18141), (294, 18174), (308, 18213), (310, 18216), (314, 18231), (315, 18234), (321, 18261), (322, 18267), (323, 18270), (324, 18273), (330, 18300), (333, 18318), (334, 18321), (348, 18396), (352, 18417), (354, 18420), (363, 18447), (372, 18471), (381, 18516), (382, 18519), (390, 18570), (400, 18633), (401, 18642), (407, 18666), (434, 18771), (435, 18774), (445, 18825), (446, 18831), (447, 18837), (448, 18840), (456, 18885), (458, 18900), (463, 18927), (467, 18951), (478, 19002), (482, 19020), (483, 19023), (484, 19035), (499, 19089), (525, 19212), (538, 19275), (554, 19338), (561, 19413), (603, 19614), (633, 19824), (639, 19863), (640, 19866),

Gene: JangDynasty_58 Start: 36182, Stop: 38692, Start Num: 57

Candidate Starts for JangDynasty_58:

(Start: 57 @36182 has 33 MA's), (69, 36215), (93, 36284), (95, 36287), (106, 36311), (115, 36335), (126, 36359), (138, 36392), (200, 36599), (203, 36611), (204, 36614), (237, 36761), (240, 36791), (246, 36815), (255, 36845), (256, 36848), (260, 36875), (263, 36899), (273, 36929), (296, 36986), (302, 37010), (315, 37046), (316, 37058), (323, 37082), (324, 37085), (332, 37127), (352, 37223), (354, 37226), (413, 37481), (445, 37625), (456, 37685), (466, 37757), (467, 37760), (488, 37856), (525, 38030), (530, 38051), (552, 38144), (555, 38156), (565, 38246), (579, 38321), (598, 38366), (630, 38567), (635, 38621), (640, 38636),

Gene: Jant_18 Start: 17553, Stop: 20090, Start Num: 43

Candidate Starts for Jant_18:

(35, 17541), (Start: 43 @17553 has 236 MA's), (52, 17574), (Start: 60 @17595 has 1 MA's), (75, 17634), (109, 17703), (113, 17712), (115, 17715), (124, 17733), (138, 17766), (143, 17781), (160, 17829), (190, 17934), (194, 17940), (195, 17943), (208, 17973), (211, 17985), (212, 17988), (229, 18066), (233, 18090), (246, 18156), (255, 18201), (260, 18231), (261, 18237), (263, 18255), (272, 18279), (274, 18288), (291, 18321), (293, 18327), (301, 18357), (315, 18396), (316, 18408), (319, 18417), (323, 18432), (324, 18435), (346, 18546), (347, 18549), (348, 18558), (349, 18564), (352, 18579), (354, 18582), (362, 18603), (372, 18633), (375, 18645), (381, 18678), (399, 18789), (400, 18792), (405, 18819), (407, 18825), (420, 18879), (421, 18882), (445, 18984), (447, 18996), (448, 18999), (459, 19065), (464, 19089), (467, 19110), (469, 19119), (482, 19179), (483, 19182), (491, 19218), (494, 19236), (499, 19248), (501, 19257), (507, 19284), (522, 19353), (525, 19371), (528, 19380), (530, 19392), (536, 19428), (544, 19458), (549, 19479), (556, 19503), (559, 19539), (565, 19593), (576, 19653), (581, 19695), (612, 19830), (616, 19854), (626, 19956), (634, 19998), (636, 20022), (637, 20025),

Gene: Jacob_18 Start: 17405, Stop: 19957, Start Num: 43

Candidate Starts for Jacob_18:

(Start: 43 @17405 has 236 MA's), (75, 17486), (109, 17555), (113, 17564), (115, 17567), (124, 17585), (143, 17633), (159, 17678), (194, 17792), (195, 17795), (199, 17807), (209, 17828), (211, 17837), (212, 17840), (223, 17888), (229, 17918), (240, 17984), (247, 18017), (255, 18053), (259, 18077), (273, 18137), (274, 18140), (279, 18158), (308, 18221), (310, 18224), (315, 18242), (319, 18263), (324, 18281), (330, 18308), (334, 18329), (341, 18362), (348, 18404), (349, 18410), (350, 18413), (354, 18428), (363, 18455), (364, 18458), (372, 18479), (375, 18491), (381, 18524), (397, 18617), (420, 18725), (426, 18749), (428, 18755), (433, 18773), (434, 18776), (439, 18800), (445, 18830), (450, 18854), (456, 18890), (457, 18896), (458, 18905), (463, 18932), (473, 18995), (478, 19019), (479, 19034), (489, 19076), (502, 19127), (523, 19223), (525, 19238), (528, 19247), (533, 19271), (547, 19334), (556, 19370), (609, 19676), (616, 19721), (626, 19823),

Gene: Jarvi_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Jarvi_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Jayhawk_27 Start: 20879, Stop: 23311, Start Num: 88

Candidate Starts for Jayhawk_27:

(Start: 88 @20879 has 96 MA's), (132, 20978), (218, 21239), (223, 21260), (263, 21467), (272, 21500), (276, 21530), (297, 21602), (303, 21626), (316, 21671), (346, 21824), (353, 21869), (356, 21881), (360, 21890), (375, 21941), (406, 22121), (410, 22136), (424, 22205), (428, 22217), (448, 22322), (456, 22361), (457, 22367), (458, 22376), (475, 22457), (484, 22505), (502, 22580), (509, 22616), (529, 22697), (534, 22718), (553, 22811), (565, 22907), (594, 23054), (602, 23096), (610, 23135), (619, 23210),

Gene: JeTaime_28 Start: 23085, Stop: 25481, Start Num: 80

Candidate Starts for JeTaime_28:

(Start: 80 @23085 has 128 MA's), (157, 23262), (162, 23283), (220, 23430), (254, 23604), (260, 23637), (268, 23673), (301, 23766), (319, 23826), (324, 23844), (350, 23976), (364, 24021), (393, 24153), (399, 24198), (416, 24258), (442, 24372), (445, 24393), (453, 24432), (456, 24453), (458, 24468), (489, 24618), (491, 24624), (494, 24642), (508, 24696), (525, 24780), (547, 24873), (591, 25119), (626, 25335), (637, 25419), (643, 25452),

Gene: Jeckyll_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Jeckyll_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Jinglebell_17 Start: 17634, Stop: 20171, Start Num: 43

Candidate Starts for Jinglebell_17:

(Start: 43 @17634 has 236 MA's), (52, 17655), (Start: 60 @17676 has 1 MA's), (75, 17715), (109, 17784), (113, 17793), (115, 17796), (124, 17814), (143, 17862), (194, 18021), (195, 18024), (211, 18066), (212, 18069), (229, 18147), (232, 18168), (233, 18171), (246, 18237), (247, 18246), (255, 18282), (260, 18312), (261, 18318), (272, 18360), (273, 18366), (274, 18369), (291, 18402), (293, 18408), (301, 18438), (310, 18459), (316, 18489), (319, 18498), (342, 18606), (345, 18618), (346, 18627), (347, 18630), (348, 18639), (349, 18645), (352, 18660), (354, 18663), (362, 18684), (375, 18726), (381, 18759), (405, 18900), (407, 18906), (420, 18960), (421, 18963), (428, 18990), (445, 19065), (447, 19077), (448, 19080), (459, 19146), (463, 19167), (464, 19170), (467, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (499, 19329), (522, 19434), (525, 19452), (528, 19461), (530, 19473), (536, 19509), (544, 19539), (549, 19560), (556, 19584), (559, 19620), (576, 19734), (581, 19776), (601, 19854), (612, 19911), (616, 19935), (622, 19989), (626, 20037), (634, 20079), (636, 20103), (637, 20106),

Gene: Job42_21 Start: 19082, Stop: 21619, Start Num: 43

Candidate Starts for Job42_21:

(Start: 43 @19082 has 236 MA's), (Start: 60 @19124 has 1 MA's), (83, 19172), (109, 19232), (113, 19241), (115, 19244), (124, 19262), (138, 19295), (143, 19310), (160, 19358), (194, 19469), (195, 19472), (208, 19502), (211, 19514), (212, 19517), (229, 19595), (233, 19619), (246, 19685), (255,

19730), (260, 19760), (261, 19766), (263, 19784), (272, 19808), (274, 19817), (291, 19850), (293, 19856), (301, 19886), (315, 19925), (316, 19937), (319, 19946), (323, 19961), (324, 19964), (346, 20075), (347, 20078), (348, 20087), (349, 20093), (352, 20108), (354, 20111), (362, 20132), (372, 20162), (375, 20174), (381, 20207), (399, 20318), (400, 20321), (405, 20348), (407, 20354), (420, 20408), (421, 20411), (445, 20513), (447, 20525), (448, 20528), (459, 20594), (464, 20618), (467, 20639), (469, 20648), (482, 20708), (483, 20711), (491, 20747), (494, 20765), (499, 20777), (501, 20786), (507, 20813), (522, 20882), (525, 20900), (528, 20909), (530, 20921), (536, 20957), (544, 20987), (549, 21008), (556, 21032), (559, 21068), (565, 21122), (576, 21182), (581, 21224), (601, 21302), (612, 21359), (616, 21383), (622, 21437), (626, 21485), (634, 21527), (636, 21551), (637, 21554),

Gene: JoeyJr_18 Start: 17568, Stop: 20105, Start Num: 43

Candidate Starts for JoeyJr_18:

(35, 17556), (Start: 43 @17568 has 236 MA's), (52, 17589), (Start: 60 @17610 has 1 MA's), (75, 17649), (109, 17718), (113, 17727), (115, 17730), (124, 17748), (143, 17796), (160, 17844), (194, 17955), (195, 17958), (212, 18003), (229, 18081), (233, 18105), (246, 18171), (255, 18216), (260, 18246), (261, 18252), (263, 18270), (272, 18294), (274, 18303), (291, 18336), (293, 18342), (301, 18372), (315, 18411), (316, 18423), (319, 18432), (323, 18447), (324, 18450), (346, 18561), (347, 18564), (348, 18573), (349, 18579), (352, 18594), (354, 18597), (362, 18618), (372, 18648), (375, 18660), (381, 18693), (399, 18804), (400, 18807), (405, 18834), (407, 18840), (420, 18894), (421, 18897), (445, 18999), (447, 19011), (448, 19014), (459, 19080), (464, 19104), (467, 19125), (469, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (501, 19272), (507, 19299), (522, 19368), (525, 19386), (528, 19395), (530, 19407), (536, 19443), (549, 19494), (554, 19512), (559, 19554), (565, 19608), (581, 19710), (612, 19845), (616, 19869), (622, 19923), (631, 19992), (636, 20037), (637, 20040),

Gene: Jolie1_026 Start: 27564, Stop: 30065, Start Num: 47

Candidate Starts for Jolie1_026:

(Start: 47 @27564 has 6 MA's), (55, 27585), (68, 27621), (85, 27678), (139, 27798), (149, 27816), (170, 27888), (174, 27894), (192, 27948), (203, 27984), (243, 28167), (252, 28212), (260, 28251), (273, 28305), (311, 28410), (319, 28446), (324, 28464), (334, 28512), (350, 28596), (361, 28632), (372, 28662), (379, 28698), (383, 28716), (420, 28923), (422, 28935), (425, 28944), (440, 29019), (441, 29022), (448, 29061), (456, 29106), (458, 29121), (474, 29202), (478, 29214), (480, 29232), (482, 29238), (484, 29253), (486, 29259), (504, 29340), (528, 29430), (531, 29445), (544, 29517), (554, 29556), (565, 29655), (623, 29997),

Gene: Jolie2_22 Start: 19776, Stop: 22241, Start Num: 39

Candidate Starts for Jolie2_22:

(20, 19692), (22, 19707), (26, 19728), (Start: 39 @19776 has 9 MA's), (77, 19884), (87, 19905), (101, 19938), (219, 20241), (260, 20433), (272, 20484), (289, 20529), (319, 20628), (322, 20640), (324, 20646), (338, 20712), (341, 20727), (350, 20778), (383, 20898), (384, 20907), (420, 21105), (429, 21141), (434, 21180), (458, 21309), (465, 21354), (478, 21405), (490, 21465), (500, 21510), (528, 21621), (534, 21648), (554, 21747), (555, 21750), (564, 21843), (571, 21885), (593, 21990), (623, 22179), (626, 22221),

Gene: Joy99_27 Start: 20841, Stop: 23273, Start Num: 88

Candidate Starts for Joy99_27:

(Start: 88 @20841 has 96 MA's), (132, 20940), (218, 21201), (223, 21222), (263, 21429), (272, 21462), (276, 21492), (297, 21564), (303, 21588), (346, 21786), (353, 21831), (356, 21843), (360, 21852), (375, 21903), (406, 22083), (410, 22098), (424, 22167), (428, 22179), (440, 22242), (448, 22284), (456, 22323), (457, 22329), (458, 22338), (462, 22359), (475, 22419), (501, 22536), (509, 22578), (527, 22650), (534, 22680), (548, 22752), (553, 22773), (565, 22869), (594, 23016), (610, 23097), (626, 23244),

Gene: Juice456_20 Start: 18519, Stop: 21056, Start Num: 43

Candidate Starts for Juice456_20:

(35, 18507), (Start: 43 @18519 has 236 MA's), (52, 18540), (Start: 60 @18561 has 1 MA's), (75, 18600), (109, 18669), (113, 18678), (115, 18681), (124, 18699), (138, 18732), (143, 18747), (160, 18795), (194, 18906), (195, 18909), (208, 18939), (211, 18951), (212, 18954), (229, 19032), (233, 19056), (246, 19122), (255, 19167), (260, 19197), (261, 19203), (263, 19221), (272, 19245), (274, 19254), (291, 19287), (293, 19293), (301, 19323), (315, 19362), (316, 19374), (319, 19383), (323, 19398), (324, 19401), (346, 19512), (347, 19515), (348, 19524), (349, 19530), (352, 19545), (354, 19548), (362, 19569), (372, 19599), (375, 19611), (381, 19644), (399, 19755), (400, 19758), (405, 19785), (407, 19791), (420, 19845), (421, 19848), (443, 19935), (445, 19950), (447, 19962), (448, 19965), (459, 20031), (464, 20055), (467, 20076), (469, 20085), (478, 20127), (482, 20145), (483, 20148), (491, 20184), (494, 20202), (499, 20214), (501, 20223), (507, 20250), (522, 20319), (525, 20337), (528, 20346), (530, 20358), (536, 20394), (544, 20424), (549, 20445), (556, 20469), (559, 20505), (565, 20559), (576, 20619), (581, 20661), (601, 20739), (612, 20796), (616, 20820), (622, 20874), (626, 20922), (634, 20964), (636, 20988), (637, 20991),

Gene: Juniper1_18 Start: 17394, Stop: 19931, Start Num: 43

Candidate Starts for Juniper1_18:

(Start: 43 @17394 has 236 MA's), (52, 17415), (Start: 60 @17436 has 1 MA's), (75, 17475), (109, 17544), (113, 17553), (115, 17556), (124, 17574), (138, 17607), (143, 17622), (194, 17781), (195, 17784), (212, 17829), (229, 17907), (233, 17931), (246, 17997), (260, 18072), (261, 18078), (272, 18120), (273, 18126), (274, 18129), (291, 18162), (293, 18168), (301, 18198), (310, 18219), (316, 18249), (319, 18258), (342, 18366), (345, 18378), (346, 18387), (347, 18390), (348, 18399), (349, 18405), (352, 18420), (354, 18423), (362, 18444), (375, 18486), (381, 18519), (399, 18630), (400, 18633), (405, 18660), (407, 18666), (420, 18720), (421, 18723), (428, 18750), (431, 18759), (445, 18825), (447, 18837), (448, 18840), (459, 18906), (463, 18927), (464, 18930), (467, 18951), (478, 19002), (482, 19020), (483, 19023), (489, 19053), (494, 19077), (499, 19089), (501, 19098), (522, 19194), (525, 19212), (528, 19221), (530, 19233), (536, 19269), (544, 19299), (549, 19320), (556, 19344), (559, 19380), (576, 19494), (581, 19536), (612, 19671), (616, 19695), (622, 19749), (631, 19818), (636, 19863), (637, 19866), (639, 19872),

Gene: Kanye_28 Start: 23270, Stop: 25666, Start Num: 80

Candidate Starts for Kanye_28:

(Start: 80 @23270 has 128 MA's), (157, 23447), (162, 23468), (220, 23615), (247, 23756), (254, 23789), (260, 23822), (268, 23858), (301, 23951), (319, 24011), (324, 24029), (350, 24161), (364, 24206), (393, 24338), (399, 24383), (416, 24443), (442, 24557), (445, 24578), (453, 24617), (456, 24638), (458, 24653), (489, 24803), (491, 24809), (494, 24827), (508, 24881), (525, 24965), (547, 25058), (591, 25304), (626, 25520), (637, 25604), (643, 25637),

Gene: Karhdo_18 Start: 17528, Stop: 20065, Start Num: 43

Candidate Starts for Karhdo_18:

(35, 17516), (Start: 43 @17528 has 236 MA's), (52, 17549), (Start: 60 @17570 has 1 MA's), (75, 17609), (109, 17678), (113, 17687), (115, 17690), (124, 17708), (138, 17741), (143, 17756), (160, 17804), (194, 17915), (195, 17918), (208, 17948), (211, 17960), (212, 17963), (229, 18041), (233, 18065), (246, 18131), (255, 18176), (260, 18206), (261, 18212), (263, 18230), (272, 18254), (274, 18263), (291, 18296), (293, 18302), (301, 18332), (315, 18371), (316, 18383), (319, 18392), (323, 18407), (324, 18410), (346, 18521), (347, 18524), (348, 18533), (349, 18539), (352, 18554), (354, 18557), (362, 18578), (372, 18608), (375, 18620), (381, 18653), (399, 18764), (400, 18767), (405, 18794), (407, 18800), (420, 18854), (421, 18857), (443, 18944), (445, 18959), (447, 18971), (448, 18974), (459, 19040), (464, 19064), (467, 19085), (469, 19094), (478, 19136), (482, 19154), (483, 19157), (489, 19187), (494, 19211), (499, 19223), (501, 19232), (522, 19328), (525, 19346), (528, 19355), (530, 19367), (536, 19403), (544, 19433), (547, 19442), (549, 19454), (559, 19514), (565,

19568), (576, 19628), (581, 19670), (612, 19805), (616, 19829), (622, 19883), (626, 19931), (634, 19973), (636, 19997), (637, 20000),

Gene: KashFlow_30 Start: 26008, Stop: 28503, Start Num: 43

Candidate Starts for KashFlow_30:

(Start: 43 @26008 has 236 MA's), (124, 26203), (138, 26239), (143, 26254), (179, 26341), (184, 26356), (195, 26392), (197, 26398), (212, 26431), (215, 26443), (252, 26614), (255, 26623), (260, 26647), (273, 26701), (291, 26737), (293, 26743), (301, 26773), (312, 26803), (316, 26824), (319, 26833), (323, 26848), (338, 26917), (354, 26998), (357, 27007), (364, 27028), (365, 27031), (375, 27061), (382, 27097), (390, 27148), (391, 27157), (393, 27160), (397, 27187), (398, 27196), (401, 27217), (420, 27295), (421, 27298), (439, 27370), (446, 27406), (447, 27412), (455, 27454), (456, 27460), (463, 27502), (464, 27505), (467, 27526), (468, 27532), (469, 27535), (476, 27565), (506, 27706), (508, 27715), (509, 27724), (517, 27757), (522, 27781), (523, 27784), (525, 27799), (530, 27820), (536, 27856), (538, 27862), (540, 27868), (545, 27889), (552, 27916), (569, 28051), (580, 28123), (582, 28129), (591, 28147), (612, 28246), (626, 28363), (638, 28444), (640, 28447), (643, 28474),

Gene: KayaCho_26 Start: 27566, Stop: 30061, Start Num: 47

Candidate Starts for KayaCho_26:

(Start: 47 @27566 has 6 MA's), (68, 27623), (77, 27662), (112, 27737), (149, 27818), (170, 27890), (192, 27950), (203, 27986), (243, 28169), (252, 28214), (273, 28307), (292, 28355), (311, 28412), (319, 28448), (324, 28466), (330, 28493), (334, 28514), (350, 28598), (361, 28634), (372, 28664), (379, 28700), (383, 28718), (420, 28925), (422, 28937), (425, 28946), (438, 29015), (440, 29021), (441, 29024), (448, 29063), (456, 29108), (462, 29147), (474, 29204), (478, 29216), (482, 29240), (484, 29255), (486, 29261), (504, 29342), (531, 29447), (565, 29657), (567, 29678), (608, 29870), (623, 29993), (627, 30038),

Gene: Kenuha5_18 Start: 17523, Stop: 20015, Start Num: 43

Candidate Starts for Kenuha5_18:

(36, 17511), (Start: 43 @17523 has 236 MA's), (52, 17544), (Start: 60 @17565 has 1 MA's), (77, 17604), (109, 17673), (113, 17682), (115, 17685), (124, 17703), (138, 17736), (153, 17769), (160, 17802), (184, 17856), (195, 17892), (197, 17898), (198, 17901), (210, 17919), (212, 17931), (215, 17943), (222, 17967), (235, 18030), (252, 18114), (255, 18123), (260, 18147), (263, 18171), (272, 18195), (273, 18201), (279, 18222), (293, 18243), (301, 18273), (312, 18303), (316, 18324), (338, 18417), (341, 18432), (342, 18441), (346, 18462), (347, 18465), (372, 18549), (373, 18552), (375, 18561), (380, 18588), (382, 18597), (388, 18636), (391, 18657), (393, 18660), (398, 18696), (401, 18717), (420, 18795), (421, 18798), (436, 18852), (447, 18912), (464, 19005), (466, 19023), (467, 19026), (476, 19062), (487, 19116), (489, 19125), (506, 19203), (509, 19221), (518, 19257), (519, 19260), (522, 19278), (523, 19281), (525, 19296), (530, 19317), (536, 19353), (540, 19365), (556, 19428), (559, 19461), (569, 19548), (578, 19596), (580, 19620), (587, 19647), (591, 19656), (600, 19695), (608, 19734), (612, 19758), (615, 19779), (626, 19875), (631, 19896), (640, 19959), (643, 19986), (644, 19995),

Gene: Kersh_19 Start: 17568, Stop: 20060, Start Num: 43

Candidate Starts for Kersh_19:

(Start: 43 @17568 has 236 MA's), (52, 17589), (Start: 60 @17610 has 1 MA's), (77, 17649), (109, 17718), (113, 17727), (115, 17730), (124, 17748), (138, 17781), (153, 17814), (160, 17847), (184, 17901), (195, 17937), (198, 17946), (210, 17964), (215, 17988), (222, 18012), (243, 18120), (247, 18144), (252, 18159), (255, 18168), (260, 18192), (261, 18198), (263, 18216), (268, 18228), (270, 18234), (272, 18240), (273, 18246), (274, 18249), (275, 18258), (279, 18267), (291, 18282), (301, 18318), (315, 18357), (316, 18369), (319, 18378), (338, 18462), (354, 18543), (357, 18552), (365, 18576), (375, 18606), (382, 18642), (390, 18693), (391, 18702), (393, 18705), (398, 18741), (401, 18762), (420, 18840), (421, 18843), (436, 18897), (447, 18957), (462, 19044), (464, 19050), (467,

19071), (476, 19107), (487, 19161), (489, 19170), (506, 19248), (509, 19266), (518, 19302), (519, 19305), (522, 19323), (525, 19341), (536, 19398), (540, 19410), (556, 19473), (559, 19506), (569, 19593), (578, 19641), (580, 19665), (587, 19692), (591, 19701), (600, 19740), (608, 19779), (612, 19803), (615, 19824), (626, 19920), (631, 19941), (638, 20001), (640, 20004), (643, 20031),

Gene: KiSi_26 Start: 20041, Stop: 22500, Start Num: 88

Candidate Starts for KiSi_26:

(Start: 88 @20041 has 96 MA's), (109, 20089), (159, 20212), (180, 20269), (185, 20281), (212, 20374), (216, 20398), (228, 20449), (261, 20611), (283, 20722), (290, 20761), (297, 20785), (329, 20908), (342, 20980), (358, 21067), (376, 21133), (379, 21148), (397, 21250), (406, 21304), (419, 21364), (436, 21442), (437, 21454), (440, 21463), (448, 21505), (458, 21565), (477, 21652), (481, 21676), (496, 21748), (509, 21805), (534, 21916), (537, 21940), (543, 21961), (554, 22012), (570, 22141), (595, 22246), (626, 22471),

Gene: Kimberlium_20 Start: 18519, Stop: 21056, Start Num: 43

Candidate Starts for Kimberlium_20:

(35, 18507), (Start: 43 @18519 has 236 MA's), (52, 18540), (Start: 60 @18561 has 1 MA's), (75, 18600), (109, 18669), (113, 18678), (115, 18681), (124, 18699), (138, 18732), (143, 18747), (160, 18795), (194, 18906), (195, 18909), (208, 18939), (211, 18951), (212, 18954), (229, 19032), (233, 19056), (246, 19122), (255, 19167), (260, 19197), (261, 19203), (263, 19221), (272, 19245), (274, 19254), (291, 19287), (293, 19293), (301, 19323), (315, 19362), (316, 19374), (319, 19383), (323, 19398), (324, 19401), (346, 19512), (347, 19515), (348, 19524), (349, 19530), (352, 19545), (354, 19548), (362, 19569), (372, 19599), (375, 19611), (381, 19644), (399, 19755), (400, 19758), (405, 19785), (407, 19791), (420, 19845), (421, 19848), (443, 19935), (445, 19950), (447, 19962), (448, 19965), (459, 20031), (464, 20055), (467, 20076), (469, 20085), (478, 20127), (482, 20145), (483, 20148), (491, 20184), (494, 20202), (499, 20214), (501, 20223), (507, 20250), (522, 20319), (525, 20337), (528, 20346), (530, 20358), (536, 20394), (544, 20424), (549, 20445), (556, 20469), (559, 20505), (565, 20559), (576, 20619), (581, 20661), (601, 20739), (612, 20796), (616, 20820), (622, 20874), (626, 20922), (634, 20964), (636, 20988), (637, 20991),

Gene: Kimchi_28 Start: 22277, Stop: 24673, Start Num: 80

Candidate Starts for Kimchi_28:

(Start: 80 @22277 has 128 MA's), (157, 22454), (162, 22475), (220, 22622), (247, 22763), (254, 22796), (260, 22829), (268, 22865), (301, 22958), (319, 23018), (324, 23036), (350, 23168), (364, 23213), (393, 23345), (399, 23390), (416, 23450), (442, 23564), (445, 23585), (453, 23624), (456, 23645), (458, 23660), (489, 23810), (491, 23816), (494, 23834), (508, 23888), (525, 23972), (547, 24065), (591, 24311), (626, 24527), (637, 24611), (643, 24644),

Gene: KingJulian_18 Start: 17437, Stop: 19974, Start Num: 43

Candidate Starts for KingJulian_18:

(35, 17425), (Start: 43 @17437 has 236 MA's), (52, 17458), (Start: 60 @17479 has 1 MA's), (75, 17518), (109, 17587), (113, 17596), (115, 17599), (124, 17617), (138, 17650), (143, 17665), (160, 17713), (194, 17824), (195, 17827), (208, 17857), (211, 17869), (212, 17872), (229, 17950), (233, 17974), (246, 18040), (255, 18085), (260, 18115), (261, 18121), (263, 18139), (272, 18163), (274, 18172), (291, 18205), (293, 18211), (301, 18241), (315, 18280), (316, 18292), (319, 18301), (323, 18316), (324, 18319), (346, 18430), (347, 18433), (348, 18442), (349, 18448), (352, 18463), (354, 18466), (362, 18487), (372, 18517), (375, 18529), (381, 18562), (399, 18673), (400, 18676), (405, 18703), (407, 18709), (420, 18763), (421, 18766), (443, 18853), (445, 18868), (447, 18880), (448, 18883), (459, 18949), (464, 18973), (467, 18994), (469, 19003), (482, 19063), (483, 19066), (491, 19102), (494, 19120), (499, 19132), (501, 19141), (507, 19168), (522, 19237), (525, 19255), (528, 19264), (530, 19276), (536, 19312), (544, 19342), (549, 19363), (556, 19387), (559, 19423), (565, 19477), (576, 19537), (581, 19579), (601, 19657), (612, 19714), (616, 19738), (622, 19792), (626, 19840), (634, 19882), (636, 19906), (637, 19909),

Gene: KingMidas_19 Start: 18701, Stop: 21238, Start Num: 43

Candidate Starts for KingMidas_19:

(35, 18689), (Start: 43 @18701 has 236 MA's), (52, 18722), (Start: 60 @18743 has 1 MA's), (75, 18782), (109, 18851), (113, 18860), (115, 18863), (124, 18881), (143, 18929), (160, 18977), (194, 19088), (195, 19091), (212, 19136), (229, 19214), (233, 19238), (246, 19304), (255, 19349), (260, 19379), (261, 19385), (263, 19403), (272, 19427), (274, 19436), (291, 19469), (293, 19475), (301, 19505), (315, 19544), (316, 19556), (319, 19565), (323, 19580), (324, 19583), (346, 19694), (347, 19697), (348, 19706), (349, 19712), (352, 19727), (354, 19730), (362, 19751), (372, 19781), (375, 19793), (381, 19826), (399, 19937), (400, 19940), (405, 19967), (407, 19973), (420, 20027), (421, 20030), (445, 20132), (447, 20144), (448, 20147), (459, 20213), (464, 20237), (467, 20258), (469, 20267), (482, 20327), (483, 20330), (491, 20366), (494, 20384), (501, 20405), (507, 20432), (522, 20501), (525, 20519), (528, 20528), (530, 20540), (536, 20576), (549, 20627), (554, 20645), (559, 20687), (565, 20741), (581, 20843), (612, 20978), (616, 21002), (622, 21056), (631, 21125), (636, 21170), (637, 21173),

Gene: KingPhillip3_57 Start: 36111, Stop: 38621, Start Num: 57

Candidate Starts for KingPhillip3_57:

(Start: 57 @36111 has 33 MA's), (69, 36144), (93, 36213), (95, 36216), (106, 36240), (115, 36264), (126, 36288), (138, 36321), (200, 36528), (203, 36540), (204, 36543), (237, 36690), (240, 36720), (246, 36744), (255, 36774), (256, 36777), (260, 36804), (263, 36828), (273, 36858), (296, 36915), (302, 36939), (315, 36975), (316, 36987), (323, 37011), (324, 37014), (332, 37056), (352, 37152), (354, 37155), (413, 37410), (445, 37554), (456, 37614), (466, 37686), (467, 37689), (488, 37785), (525, 37959), (530, 37980), (552, 38073), (555, 38085), (565, 38175), (579, 38250), (598, 38295), (630, 38496), (635, 38550), (640, 38565),

Gene: Kingsley_19 Start: 17253, Stop: 19730, Start Num: 43

Candidate Starts for Kingsley_19:

(36, 17241), (Start: 43 @17253 has 236 MA's), (52, 17274), (Start: 60 @17295 has 1 MA's), (77, 17334), (109, 17403), (113, 17412), (115, 17415), (124, 17433), (138, 17466), (143, 17481), (179, 17568), (184, 17583), (195, 17619), (197, 17625), (212, 17658), (215, 17670), (252, 17841), (255, 17850), (260, 17874), (273, 17928), (291, 17964), (293, 17970), (301, 18000), (312, 18030), (316, 18051), (319, 18060), (338, 18144), (349, 18207), (354, 18225), (357, 18234), (364, 18255), (365, 18258), (372, 18276), (375, 18288), (380, 18315), (382, 18324), (390, 18375), (391, 18384), (393, 18387), (397, 18414), (398, 18423), (401, 18444), (420, 18522), (421, 18525), (446, 18633), (447, 18639), (456, 18687), (463, 18729), (464, 18732), (467, 18753), (468, 18759), (469, 18762), (476, 18792), (506, 18933), (509, 18951), (517, 18984), (522, 19008), (523, 19011), (525, 19026), (530, 19047), (536, 19083), (538, 19089), (545, 19116), (552, 19143), (569, 19278), (578, 19326), (580, 19350), (582, 19356), (591, 19374), (612, 19473), (615, 19494), (617, 19512), (626, 19590), (631, 19611), (640, 19674), (641, 19692), (644, 19710),

Gene: Konstantine_34 Start: 26883, Stop: 29726, Start Num: 15

Candidate Starts for Konstantine_34:

(Start: 15 @26883 has 8 MA's), (19, 27015), (21, 27027), (23, 27036), (38, 27105), (65, 27171), (71, 27192), (89, 27240), (107, 27282), (118, 27306), (129, 27339), (145, 27375), (152, 27387), (178, 27480), (195, 27537), (207, 27576), (247, 27771), (253, 27801), (261, 27843), (310, 27984), (315, 28002), (332, 28083), (341, 28122), (345, 28143), (381, 28281), (387, 28320), (398, 28383), (421, 28485), (466, 28710), (545, 29073), (552, 29100), (593, 29343), (599, 29376), (605, 29400), (621, 29520), (632, 29598), (643, 29685), (645, 29700), (646, 29706),

Gene: Kostya_26 Start: 22283, Stop: 24679, Start Num: 80

Candidate Starts for Kostya_26:

(Start: 80 @22283 has 128 MA's), (157, 22460), (162, 22481), (220, 22628), (247, 22769), (254, 22802), (260, 22835), (268, 22871), (301, 22964), (319, 23024), (324, 23042), (341, 23123), (393, 23351), (399, 23396), (445, 23591), (446, 23597), (448, 23606), (456, 23651), (458, 23666), (491, 23822), (494, 23840), (497, 23849), (525, 23978), (526, 23981), (564, 24191), (566, 24203), (591, 24317), (626, 24533), (637, 24617), (641, 24641), (643, 24650),

Gene: Krakatau_19 Start: 18095, Stop: 20632, Start Num: 43

Candidate Starts for Krakatau_19:

(Start: 43 @18095 has 236 MA's), (52, 18116), (Start: 60 @18137 has 1 MA's), (75, 18176), (109, 18245), (113, 18254), (115, 18257), (124, 18275), (138, 18308), (143, 18323), (160, 18371), (194, 18482), (195, 18485), (208, 18515), (211, 18527), (212, 18530), (233, 18632), (246, 18698), (255, 18743), (260, 18773), (261, 18779), (263, 18797), (272, 18821), (274, 18830), (291, 18863), (293, 18869), (301, 18899), (315, 18938), (316, 18950), (319, 18959), (323, 18974), (325, 18980), (346, 19088), (347, 19091), (348, 19100), (349, 19106), (352, 19121), (354, 19124), (362, 19145), (372, 19175), (375, 19187), (381, 19220), (399, 19331), (400, 19334), (405, 19361), (407, 19367), (420, 19421), (421, 19424), (445, 19526), (447, 19538), (448, 19541), (459, 19607), (464, 19631), (467, 19652), (469, 19661), (482, 19721), (483, 19724), (491, 19760), (494, 19778), (499, 19790), (501, 19799), (507, 19826), (522, 19895), (525, 19913), (528, 19922), (530, 19934), (536, 19970), (544, 20000), (549, 20021), (556, 20045), (559, 20081), (565, 20135), (576, 20195), (581, 20237), (601, 20315), (612, 20372), (616, 20396), (622, 20450), (626, 20498), (636, 20564), (637, 20567),

Gene: Krili_57 Start: 35606, Stop: 38116, Start Num: 57

Candidate Starts for Krili_57:

(Start: 57 @35606 has 33 MA's), (69, 35639), (93, 35708), (95, 35711), (106, 35735), (115, 35759), (126, 35783), (138, 35816), (200, 36023), (203, 36035), (204, 36038), (237, 36185), (240, 36215), (246, 36239), (255, 36269), (256, 36272), (260, 36299), (263, 36323), (273, 36353), (296, 36410), (302, 36434), (315, 36470), (316, 36482), (323, 36506), (324, 36509), (332, 36551), (352, 36647), (354, 36650), (413, 36905), (445, 37049), (456, 37109), (466, 37181), (467, 37184), (488, 37280), (525, 37454), (530, 37475), (552, 37568), (555, 37580), (565, 37670), (579, 37745), (598, 37790), (630, 37991), (635, 38045), (640, 38060),

Gene: KristaRAM_19 Start: 18070, Stop: 20607, Start Num: 43

Candidate Starts for KristaRAM_19:

(35, 18058), (Start: 43 @18070 has 236 MA's), (52, 18091), (Start: 60 @18112 has 1 MA's), (75, 18151), (109, 18220), (113, 18229), (115, 18232), (124, 18250), (138, 18283), (143, 18298), (160, 18346), (194, 18457), (195, 18460), (208, 18490), (211, 18502), (212, 18505), (229, 18583), (233, 18607), (246, 18673), (255, 18718), (260, 18748), (261, 18754), (263, 18772), (272, 18796), (274, 18805), (291, 18838), (293, 18844), (301, 18874), (315, 18913), (316, 18925), (319, 18934), (323, 18949), (324, 18952), (346, 19063), (347, 19066), (348, 19075), (349, 19081), (352, 19096), (354, 19099), (362, 19120), (372, 19150), (375, 19162), (381, 19195), (399, 19306), (400, 19309), (405, 19336), (407, 19342), (420, 19396), (421, 19399), (443, 19486), (445, 19501), (447, 19513), (448, 19516), (459, 19582), (464, 19606), (467, 19627), (469, 19636), (482, 19696), (483, 19699), (491, 19735), (494, 19753), (499, 19765), (501, 19774), (507, 19801), (522, 19870), (525, 19888), (528, 19897), (530, 19909), (536, 19945), (544, 19975), (549, 19996), (556, 20020), (559, 20056), (565, 20110), (576, 20170), (581, 20212), (601, 20290), (612, 20347), (616, 20371), (622, 20425), (626, 20473), (634, 20515), (636, 20539), (637, 20542),

Gene: Kumao_30 Start: 23701, Stop: 26268, Start Num: 42

Candidate Starts for Kumao_30:

(Start: 42 @23701 has 6 MA's), (69, 23767), (124, 23899), (136, 23923), (147, 23956), (168, 24031), (176, 24049), (190, 24100), (211, 24166), (252, 24370), (274, 24469), (291, 24502), (306, 24553), (336, 24676), (337, 24679), (381, 24856), (393, 24922), (403, 24988), (408, 25006), (414, 25021), (417, 25045), (444, 25150), (445, 25162), (470, 25300), (489, 25399), (491, 25405), (496, 25435),

(506, 25477), (546, 25660), (547, 25663), (552, 25684), (553, 25690), (565, 25789), (572, 25828), (588, 25915), (611, 26014), (618, 26065), (620, 26083), (625, 26137), (636, 26212),

Gene: LaterM_27 Start: 20812, Stop: 23244, Start Num: 88

Candidate Starts for LaterM_27:

(Start: 88 @20812 has 96 MA's), (113, 20869), (132, 20911), (218, 21172), (223, 21193), (263, 21400), (272, 21433), (276, 21463), (297, 21535), (303, 21559), (316, 21604), (346, 21757), (356, 21814), (360, 21823), (371, 21859), (375, 21874), (406, 22054), (410, 22069), (424, 22138), (428, 22150), (440, 22213), (448, 22255), (456, 22294), (457, 22300), (458, 22309), (462, 22330), (475, 22390), (484, 22438), (485, 22441), (489, 22456), (499, 22498), (501, 22507), (511, 22564), (527, 22621), (529, 22630), (534, 22651), (543, 22696), (553, 22744), (565, 22840), (610, 23068), (626, 23215),

Gene: Latretium_19 Start: 18077, Stop: 20614, Start Num: 43

Candidate Starts for Latretium_19:

(35, 18065), (Start: 43 @18077 has 236 MA's), (52, 18098), (Start: 60 @18119 has 1 MA's), (75, 18158), (109, 18227), (113, 18236), (115, 18239), (124, 18257), (143, 18305), (194, 18464), (195, 18467), (208, 18497), (212, 18512), (229, 18590), (232, 18611), (233, 18614), (246, 18680), (260, 18755), (261, 18761), (263, 18779), (272, 18803), (273, 18809), (274, 18812), (291, 18845), (293, 18851), (301, 18881), (310, 18902), (316, 18932), (319, 18941), (342, 19049), (346, 19070), (347, 19073), (348, 19082), (349, 19088), (352, 19103), (354, 19106), (362, 19127), (375, 19169), (381, 19202), (405, 19343), (407, 19349), (420, 19403), (421, 19406), (428, 19433), (445, 19508), (447, 19520), (448, 19523), (459, 19589), (464, 19613), (467, 19634), (469, 19643), (482, 19703), (483, 19706), (491, 19742), (494, 19760), (501, 19781), (507, 19808), (521, 19865), (522, 19877), (525, 19895), (528, 19904), (530, 19916), (536, 19952), (544, 19982), (559, 20063), (565, 20117), (576, 20177), (581, 20219), (612, 20354), (616, 20378), (622, 20432), (634, 20522), (636, 20546), (637, 20549),

Gene: LeMond_26 Start: 20112, Stop: 22571, Start Num: 88

Candidate Starts for LeMond_26:

(Start: 88 @20112 has 96 MA's), (109, 20160), (159, 20283), (180, 20340), (185, 20352), (212, 20445), (216, 20469), (228, 20520), (261, 20682), (283, 20793), (290, 20832), (297, 20856), (329, 20979), (342, 21051), (358, 21138), (379, 21219), (397, 21321), (406, 21375), (419, 21435), (436, 21513), (437, 21525), (440, 21534), (448, 21576), (456, 21621), (458, 21636), (477, 21723), (481, 21747), (496, 21819), (509, 21876), (534, 21987), (537, 22011), (543, 22032), (554, 22083), (570, 22212), (595, 22317), (626, 22542),

Gene: Lemuria_23 Start: 20578, Stop: 23055, Start Num: 39

Candidate Starts for Lemuria_23:

(Start: 39 @20578 has 9 MA's), (77, 20686), (94, 20722), (101, 20740), (219, 21052), (272, 21295), (289, 21340), (320, 21442), (324, 21457), (338, 21523), (341, 21538), (350, 21589), (361, 21625), (379, 21691), (384, 21718), (420, 21916), (434, 21991), (478, 22216), (490, 22276), (500, 22321), (534, 22459), (554, 22555), (571, 22693), (623, 22993),

Gene: Leozinho_19 Start: 17243, Stop: 19780, Start Num: 43

Candidate Starts for Leozinho_19:

(35, 17231), (Start: 43 @17243 has 236 MA's), (52, 17264), (Start: 60 @17285 has 1 MA's), (75, 17324), (109, 17393), (113, 17402), (115, 17405), (124, 17423), (138, 17456), (143, 17471), (160, 17519), (194, 17630), (195, 17633), (208, 17663), (211, 17675), (212, 17678), (229, 17756), (233, 17780), (246, 17846), (255, 17891), (260, 17921), (261, 17927), (263, 17945), (272, 17969), (274, 17978), (291, 18011), (293, 18017), (301, 18047), (315, 18086), (316, 18098), (319, 18107), (323, 18122), (324, 18125), (346, 18236), (347, 18239), (348, 18248), (349, 18254), (352, 18269), (354, 18272), (362, 18293), (372, 18323), (375, 18335), (381, 18368), (399, 18479), (400, 18482), (405, 18509), (407, 18515), (420, 18569), (421, 18572), (445, 18674), (447, 18686), (448, 18689), (459,

18755), (464, 18779), (467, 18800), (469, 18809), (482, 18869), (483, 18872), (491, 18908), (494, 18926), (499, 18938), (501, 18947), (507, 18974), (522, 19043), (525, 19061), (528, 19070), (530, 19082), (536, 19118), (544, 19148), (549, 19169), (556, 19193), (559, 19229), (565, 19283), (576, 19343), (581, 19385), (601, 19463), (612, 19520), (616, 19544), (622, 19598), (626, 19646), (634, 19688), (636, 19712), (637, 19715),

Gene: Leperchaun_18 Start: 17387, Stop: 19939, Start Num: 43

Candidate Starts for Leperchaun_18:

(Start: 43 @17387 has 236 MA's), (52, 17408), (Start: 60 @17429 has 1 MA's), (75, 17468), (109, 17537), (113, 17546), (115, 17549), (124, 17567), (138, 17600), (143, 17615), (160, 17663), (194, 17774), (195, 17777), (209, 17810), (211, 17819), (212, 17822), (229, 17900), (240, 17966), (247, 17999), (258, 18053), (260, 18065), (272, 18113), (274, 18122), (275, 18131), (294, 18164), (310, 18206), (314, 18221), (321, 18251), (322, 18257), (323, 18260), (324, 18263), (330, 18290), (334, 18311), (341, 18344), (348, 18386), (349, 18392), (350, 18395), (352, 18407), (354, 18410), (363, 18437), (372, 18461), (375, 18473), (381, 18506), (385, 18527), (397, 18599), (400, 18620), (426, 18731), (433, 18755), (434, 18758), (439, 18782), (445, 18812), (450, 18836), (456, 18872), (457, 18878), (458, 18887), (473, 18977), (478, 19001), (479, 19016), (489, 19058), (491, 19064), (502, 19109), (523, 19205), (525, 19220), (528, 19229), (533, 19253), (547, 19316), (609, 19658), (616, 19703), (626, 19805),

Gene: LilMcDreamy_27 Start: 29183, Stop: 31675, Start Num: 47

Candidate Starts for LilMcDreamy_27:

(Start: 47 @29183 has 6 MA's), (72, 29261), (102, 29336), (273, 29906), (281, 29930), (315, 30029), (320, 30053), (322, 30062), (330, 30095), (333, 30113), (343, 30161), (374, 30275), (379, 30302), (386, 30341), (401, 30437), (406, 30461), (420, 30527), (440, 30623), (447, 30662), (474, 30806), (484, 30857), (492, 30896), (495, 30905), (506, 30950), (531, 31061), (554, 31172), (565, 31271), (597, 31430), (614, 31532), (623, 31613),

Gene: LilMoolah_18 Start: 17531, Stop: 20056, Start Num: 43

Candidate Starts for LilMoolah_18:

(Start: 43 @17531 has 236 MA's), (52, 17552), (Start: 60 @17573 has 1 MA's), (75, 17612), (109, 17681), (113, 17690), (115, 17693), (124, 17711), (143, 17759), (160, 17807), (194, 17918), (195, 17921), (210, 17954), (212, 17966), (229, 18044), (240, 18110), (247, 18143), (258, 18197), (260, 18209), (273, 18263), (274, 18266), (275, 18275), (294, 18308), (308, 18347), (310, 18350), (314, 18365), (315, 18368), (321, 18395), (322, 18401), (323, 18404), (324, 18407), (330, 18434), (333, 18452), (334, 18455), (348, 18530), (352, 18551), (354, 18554), (363, 18581), (372, 18605), (381, 18650), (382, 18653), (390, 18704), (400, 18767), (401, 18776), (407, 18800), (434, 18905), (435, 18908), (445, 18959), (446, 18965), (447, 18971), (448, 18974), (456, 19019), (458, 19034), (463, 19061), (467, 19085), (478, 19136), (482, 19154), (483, 19157), (484, 19169), (499, 19223), (525, 19346), (538, 19409), (554, 19472), (561, 19547), (603, 19748), (633, 19958), (639, 19997), (640, 20000),

Gene: Lilac_28 Start: 21781, Stop: 24177, Start Num: 80

Candidate Starts for Lilac_28:

(Start: 80 @21781 has 128 MA's), (157, 21958), (162, 21979), (220, 22126), (254, 22300), (260, 22333), (268, 22369), (301, 22462), (319, 22522), (324, 22540), (350, 22672), (364, 22717), (393, 22849), (399, 22894), (416, 22954), (442, 23068), (445, 23089), (453, 23128), (456, 23149), (458, 23164), (489, 23314), (491, 23320), (494, 23338), (508, 23392), (525, 23476), (547, 23569), (591, 23815), (626, 24031), (637, 24115), (643, 24148),

Gene: Lilizi_28 Start: 21989, Stop: 24385, Start Num: 80

Candidate Starts for Lilizi_28:

(Start: 80 @21989 has 128 MA's), (157, 22166), (162, 22187), (220, 22334), (254, 22508), (260, 22541), (268, 22577), (301, 22670), (319, 22730), (324, 22748), (350, 22880), (364, 22925), (393, 23057), (399, 23102), (416, 23162), (442, 23276), (445, 23297), (453, 23336), (456, 23357), (458, 23372), (489, 23522), (491, 23528), (494, 23546), (508, 23600), (525, 23684), (547, 23777), (591, 24023), (626, 24239), (637, 24323), (643, 24356),

Gene: Lilpickle_25 Start: 21491, Stop: 23887, Start Num: 80

Candidate Starts for Lilpickle_25:

(Start: 80 @21491 has 128 MA's), (157, 21668), (162, 21689), (220, 21836), (254, 22010), (260, 22043), (268, 22079), (301, 22172), (319, 22232), (324, 22250), (350, 22382), (364, 22427), (393, 22559), (399, 22604), (416, 22664), (442, 22778), (445, 22799), (453, 22838), (456, 22859), (458, 22874), (489, 23024), (491, 23030), (494, 23048), (508, 23102), (525, 23186), (547, 23279), (591, 23525), (626, 23741), (637, 23825), (643, 23858),

Gene: LindNT_27 Start: 20846, Stop: 23278, Start Num: 88

Candidate Starts for LindNT_27:

(Start: 88 @20846 has 96 MA's), (132, 20945), (218, 21206), (263, 21434), (272, 21467), (276, 21497), (297, 21569), (303, 21593), (316, 21638), (346, 21791), (353, 21836), (356, 21848), (360, 21857), (371, 21893), (375, 21908), (406, 22088), (410, 22103), (424, 22172), (428, 22184), (440, 22247), (448, 22289), (456, 22328), (457, 22334), (458, 22343), (462, 22364), (475, 22424), (501, 22541), (509, 22583), (527, 22655), (529, 22664), (534, 22685), (548, 22757), (553, 22778), (565, 22874), (610, 23102), (626, 23249),

Gene: LittleE_39 Start: 30972, Stop: 33527, Start Num: 43

Candidate Starts for LittleE_39:

(Start: 43 @30972 has 236 MA's), (124, 31167), (138, 31203), (143, 31218), (160, 31266), (194, 31377), (195, 31380), (208, 31410), (212, 31425), (229, 31503), (233, 31527), (246, 31593), (255, 31638), (260, 31668), (261, 31674), (263, 31692), (272, 31716), (274, 31725), (291, 31758), (293, 31764), (301, 31794), (315, 31833), (316, 31845), (319, 31854), (323, 31869), (324, 31872), (346, 31983), (347, 31986), (348, 31995), (349, 32001), (352, 32016), (354, 32019), (372, 32070), (375, 32082), (381, 32115), (393, 32181), (399, 32226), (400, 32229), (405, 32256), (407, 32262), (420, 32316), (421, 32319), (443, 32406), (445, 32421), (447, 32433), (448, 32436), (459, 32502), (467, 32547), (469, 32556), (482, 32616), (483, 32619), (491, 32655), (494, 32673), (499, 32685), (501, 32694), (507, 32721), (522, 32790), (525, 32808), (528, 32817), (530, 32829), (536, 32865), (544, 32895), (549, 32916), (556, 32940), (559, 32976), (565, 33030), (576, 33090), (581, 33132), (612, 33267), (616, 33291), (622, 33345), (626, 33393), (634, 33435), (636, 33459), (637, 33462),

Gene: LittleMinkey_35 Start: 28887, Stop: 31370, Start Num: 47

Candidate Starts for LittleMinkey_35:

(Start: 47 @28887 has 6 MA's), (51, 28896), (85, 29001), (87, 29004), (100, 29034), (112, 29058), (114, 29061), (243, 29478), (249, 29514), (264, 29580), (273, 29610), (292, 29676), (304, 29718), (330, 29811), (334, 29832), (345, 29886), (380, 30024), (384, 30045), (398, 30129), (419, 30234), (425, 30261), (436, 30315), (467, 30489), (478, 30531), (574, 31017), (623, 31308), (625, 31344), (627, 31353),

Gene: LittleShirley_19 Start: 17218, Stop: 19755, Start Num: 43

Candidate Starts for LittleShirley_19:

(Start: 43 @17218 has 236 MA's), (52, 17239), (Start: 60 @17260 has 1 MA's), (75, 17299), (109, 17368), (113, 17377), (115, 17380), (124, 17398), (143, 17446), (190, 17599), (195, 17608), (212, 17653), (232, 17752), (233, 17755), (246, 17821), (260, 17896), (261, 17902), (263, 17920), (272, 17944), (273, 17950), (274, 17953), (291, 17986), (293, 17992), (301, 18022), (310, 18043), (316, 18073), (319, 18082), (323, 18097), (324, 18100), (346, 18211), (347, 18214), (348, 18223), (349, 18229), (352, 18244), (354, 18247), (362, 18268), (372, 18298), (375, 18310), (381, 18343), (399,

18454), (400, 18457), (405, 18484), (407, 18490), (420, 18544), (421, 18547), (445, 18649), (447, 18661), (448, 18664), (459, 18730), (464, 18754), (467, 18775), (469, 18784), (482, 18844), (483, 18847), (491, 18883), (494, 18901), (499, 18913), (501, 18922), (507, 18949), (521, 19006), (522, 19018), (525, 19036), (528, 19045), (530, 19057), (536, 19093), (544, 19123), (547, 19132), (549, 19144), (559, 19204), (565, 19258), (576, 19318), (581, 19360), (612, 19495), (616, 19519), (622, 19573), (626, 19621), (634, 19663), (636, 19687), (637, 19690),

Gene: Lizziana_18 Start: 17406, Stop: 19931, Start Num: 43

Candidate Starts for Lizziana_18:

(Start: 43 @17406 has 236 MA's), (75, 17487), (109, 17556), (113, 17565), (115, 17568), (124, 17586), (143, 17634), (159, 17679), (194, 17793), (195, 17796), (199, 17808), (210, 17829), (211, 17838), (212, 17841), (223, 17889), (229, 17919), (240, 17985), (247, 18018), (255, 18054), (259, 18078), (273, 18138), (274, 18141), (279, 18159), (308, 18222), (310, 18225), (315, 18243), (319, 18264), (324, 18282), (330, 18309), (334, 18330), (341, 18363), (349, 18411), (350, 18414), (352, 18426), (354, 18429), (363, 18456), (372, 18480), (381, 18525), (401, 18651), (407, 18675), (435, 18783), (445, 18834), (447, 18846), (448, 18849), (456, 18894), (458, 18909), (463, 18936), (467, 18960), (478, 19011), (482, 19029), (483, 19032), (484, 19044), (499, 19098), (508, 19140), (538, 19284), (552, 19338), (553, 19344), (554, 19347), (557, 19383), (558, 19386), (560, 19395), (561, 19422), (603, 19623), (626, 19794), (633, 19833), (639, 19872), (640, 19875),

Gene: Llama_18 Start: 17634, Stop: 20171, Start Num: 43

Candidate Starts for Llama_18:

(Start: 43 @17634 has 236 MA's), (52, 17655), (Start: 60 @17676 has 1 MA's), (75, 17715), (109, 17784), (113, 17793), (115, 17796), (124, 17814), (143, 17862), (194, 18021), (195, 18024), (211, 18066), (212, 18069), (229, 18147), (232, 18168), (233, 18171), (246, 18237), (247, 18246), (255, 18282), (260, 18312), (261, 18318), (272, 18360), (273, 18366), (274, 18369), (291, 18402), (293, 18408), (301, 18438), (310, 18459), (316, 18489), (319, 18498), (342, 18606), (345, 18618), (346, 18627), (347, 18630), (348, 18639), (349, 18645), (352, 18660), (354, 18663), (362, 18684), (375, 18726), (381, 18759), (405, 18900), (407, 18906), (420, 18960), (421, 18963), (428, 18990), (445, 19065), (447, 19077), (448, 19080), (459, 19146), (463, 19167), (464, 19170), (467, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (499, 19329), (522, 19434), (525, 19452), (528, 19461), (530, 19473), (536, 19509), (544, 19539), (549, 19560), (556, 19584), (559, 19620), (576, 19734), (581, 19776), (601, 19854), (612, 19911), (616, 19935), (622, 19989), (626, 20037), (634, 20079), (636, 20103), (637, 20106),

Gene: Llij_18 Start: 17383, Stop: 19920, Start Num: 43

Candidate Starts for Llij_18:

(Start: 43 @17383 has 236 MA's), (83, 17473), (109, 17533), (113, 17542), (115, 17545), (124, 17563), (143, 17611), (160, 17659), (190, 17764), (194, 17770), (195, 17773), (211, 17815), (212, 17818), (233, 17920), (246, 17986), (255, 18031), (260, 18061), (261, 18067), (263, 18085), (272, 18109), (274, 18118), (291, 18151), (293, 18157), (310, 18208), (315, 18226), (316, 18238), (319, 18247), (323, 18262), (325, 18268), (346, 18376), (348, 18388), (349, 18394), (352, 18409), (354, 18412), (362, 18433), (372, 18463), (375, 18475), (381, 18508), (393, 18574), (399, 18619), (400, 18622), (405, 18649), (407, 18655), (420, 18709), (421, 18712), (428, 18739), (445, 18814), (447, 18826), (448, 18829), (459, 18895), (463, 18916), (464, 18919), (469, 18949), (478, 18991), (482, 19009), (483, 19012), (489, 19042), (494, 19066), (499, 19078), (501, 19087), (522, 19183), (525, 19201), (528, 19210), (530, 19222), (544, 19288), (547, 19297), (549, 19309), (559, 19369), (581, 19525), (612, 19660), (616, 19684), (622, 19738), (631, 19807), (636, 19852), (637, 19855),

Gene: Llorens_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Llorens_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923),

(375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Lorde_19 Start: 17219, Stop: 19756, Start Num: 43

Candidate Starts for Lorde_19:

(35, 17207), (Start: 43 @17219 has 236 MA's), (52, 17240), (Start: 60 @17261 has 1 MA's), (75, 17300), (109, 17369), (113, 17378), (115, 17381), (124, 17399), (138, 17432), (143, 17447), (160, 17495), (190, 17600), (195, 17609), (211, 17651), (212, 17654), (229, 17732), (233, 17756), (246, 17822), (255, 17867), (260, 17897), (261, 17903), (263, 17921), (272, 17945), (274, 17954), (291, 17987), (293, 17993), (301, 18023), (315, 18062), (316, 18074), (319, 18083), (323, 18098), (324, 18101), (346, 18212), (348, 18224), (349, 18230), (352, 18245), (354, 18248), (362, 18269), (372, 18299), (375, 18311), (381, 18344), (393, 18410), (399, 18455), (400, 18458), (405, 18485), (407, 18491), (420, 18545), (421, 18548), (428, 18575), (445, 18650), (447, 18662), (448, 18665), (459, 18731), (464, 18755), (469, 18785), (478, 18827), (482, 18845), (483, 18848), (491, 18884), (494, 18902), (501, 18923), (507, 18950), (522, 19019), (525, 19037), (528, 19046), (530, 19058), (536, 19094), (544, 19124), (547, 19133), (549, 19145), (559, 19205), (565, 19259), (576, 19319), (581, 19361), (601, 19439), (612, 19496), (616, 19520), (622, 19574), (626, 19622), (634, 19664), (636, 19688), (637, 19691),

Gene: Lucia_19 Start: 17421, Stop: 19973, Start Num: 43

Candidate Starts for Lucia_19:

(Start: 43 @17421 has 236 MA's), (52, 17442), (Start: 60 @17463 has 1 MA's), (75, 17502), (109, 17571), (113, 17580), (115, 17583), (124, 17601), (138, 17634), (143, 17649), (160, 17697), (194, 17808), (195, 17811), (209, 17844), (211, 17853), (212, 17856), (229, 17934), (240, 18000), (247, 18033), (258, 18087), (260, 18099), (272, 18147), (274, 18156), (275, 18165), (294, 18198), (310, 18240), (314, 18255), (321, 18285), (322, 18291), (323, 18294), (324, 18297), (330, 18324), (334, 18345), (341, 18378), (348, 18420), (349, 18426), (350, 18429), (352, 18441), (354, 18444), (363, 18471), (372, 18495), (375, 18507), (381, 18540), (385, 18561), (397, 18633), (400, 18654), (426, 18765), (433, 18789), (434, 18792), (439, 18816), (445, 18846), (450, 18870), (456, 18906), (457, 18912), (458, 18921), (473, 19011), (478, 19035), (479, 19050), (489, 19092), (491, 19098), (502, 19143), (523, 19239), (525, 19254), (528, 19263), (533, 19287), (547, 19350), (565, 19476), (609, 19692), (616, 19737), (626, 19839), (640, 19917),

Gene: Lucky2013_36 Start: 27869, Stop: 30376, Start Num: 43

Candidate Starts for Lucky2013_36:

(Start: 43 @27869 has 236 MA's), (124, 28064), (138, 28100), (143, 28115), (179, 28202), (184, 28217), (212, 28292), (215, 28304), (223, 28331), (243, 28436), (252, 28475), (255, 28484), (260, 28508), (261, 28514), (263, 28532), (270, 28550), (274, 28565), (275, 28574), (279, 28583), (291, 28598), (299, 28625), (301, 28634), (315, 28673), (316, 28685), (319, 28694), (338, 28778), (354, 28859), (364, 28889), (365, 28892), (375, 28922), (380, 28949), (382, 28958), (390, 29009), (391, 29018), (393, 29021), (398, 29057), (401, 29078), (411, 29114), (446, 29267), (456, 29321), (464, 29366), (466, 29384), (467, 29387), (476, 29426), (506, 29573), (508, 29582), (523, 29651), (525, 29666), (559, 29831), (569, 29918), (578, 29966), (591, 30017), (608, 30095), (638, 30317), (640, 30320), (643, 30347),

Gene: LunaBlu_19 Start: 17477, Stop: 20014, Start Num: 43

Candidate Starts for LunaBlu_19:

(Start: 43 @17477 has 236 MA's), (83, 17567), (109, 17627), (113, 17636), (115, 17639), (124, 17657), (138, 17690), (143, 17705), (160, 17753), (194, 17864), (195, 17867), (208, 17897), (212, 17912), (229, 17990), (246, 18080), (255, 18125), (260, 18155), (261, 18161), (263, 18179), (272, 18203), (274, 18212), (291, 18245), (293, 18251), (301, 18281), (315, 18320), (316, 18332), (319, 18341),

(323, 18356), (324, 18359), (346, 18470), (348, 18482), (349, 18488), (352, 18503), (354, 18506), (362, 18527), (372, 18557), (375, 18569), (381, 18602), (393, 18668), (399, 18713), (400, 18716), (405, 18743), (407, 18749), (420, 18803), (421, 18806), (445, 18908), (447, 18920), (448, 18923), (459, 18989), (464, 19013), (469, 19043), (482, 19103), (483, 19106), (491, 19142), (494, 19160), (499, 19172), (501, 19181), (507, 19208), (522, 19277), (525, 19295), (528, 19304), (530, 19316), (536, 19352), (544, 19382), (549, 19403), (556, 19427), (559, 19463), (565, 19517), (576, 19577), (581, 19619), (601, 19697), (612, 19754), (616, 19778), (622, 19832), (626, 19880), (634, 19922), (636, 19946), (637, 19949),

Gene: LunaStella_20 Start: 17940, Stop: 20417, Start Num: 46

Candidate Starts for LunaStella_20:

(Start: 46 @17940 has 3 MA's), (52, 17952), (82, 18015), (96, 18042), (119, 18096), (124, 18105), (126, 18111), (138, 18138), (153, 18171), (179, 18243), (184, 18258), (195, 18294), (198, 18303), (210, 18321), (215, 18345), (222, 18369), (252, 18516), (255, 18525), (260, 18549), (263, 18573), (272, 18597), (273, 18603), (279, 18624), (293, 18645), (301, 18675), (312, 18705), (316, 18726), (338, 18819), (341, 18834), (342, 18843), (344, 18852), (346, 18864), (347, 18867), (372, 18951), (373, 18954), (375, 18963), (380, 18990), (382, 18999), (388, 19038), (391, 19059), (393, 19062), (398, 19098), (401, 19119), (420, 19197), (421, 19200), (436, 19254), (447, 19314), (462, 19401), (464, 19407), (466, 19425), (467, 19428), (476, 19464), (487, 19518), (489, 19527), (506, 19605), (509, 19623), (518, 19659), (519, 19662), (522, 19680), (523, 19683), (525, 19698), (536, 19755), (540, 19767), (556, 19830), (559, 19863), (569, 19950), (578, 19998), (580, 20022), (587, 20049), (591, 20058), (600, 20097), (608, 20136), (612, 20160), (615, 20181), (626, 20277), (631, 20298), (640, 20361), (643, 20388), (644, 20397),

Gene: Lunahalos_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Lunahalos_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: MISSy_25 Start: 21796, Stop: 24192, Start Num: 80

Candidate Starts for MISSy_25:

(Start: 80 @21796 has 128 MA's), (157, 21973), (162, 21994), (220, 22141), (247, 22282), (254, 22315), (260, 22348), (268, 22384), (301, 22477), (319, 22537), (324, 22555), (350, 22687), (364, 22732), (393, 22864), (399, 22909), (416, 22969), (442, 23083), (445, 23104), (453, 23143), (456, 23164), (458, 23179), (489, 23329), (491, 23335), (494, 23353), (508, 23407), (525, 23491), (547, 23584), (591, 23830), (626, 24046), (637, 24130), (643, 24163),

Gene: MOOREtheMARYer_23 Start: 20802, Stop: 23264, Start Num: 39

Candidate Starts for MOOREtheMARYer_23:

(Start: 39 @20802 has 9 MA's), (139, 21030), (158, 21072), (166, 21105), (203, 21210), (243, 21393), (257, 21453), (293, 21576), (304, 21615), (319, 21663), (320, 21666), (341, 21762), (345, 21783), (355, 21837), (379, 21918), (381, 21927), (386, 21954), (406, 22074), (413, 22101), (425, 22161), (436, 22209), (438, 22224), (451, 22290), (458, 22332), (478, 22425), (556, 22770), (559, 22809), (569, 22896), (581, 22968), (611, 23097), (623, 23202), (627, 23247),

Gene: MPhalcon_25 Start: 21790, Stop: 24186, Start Num: 80

Candidate Starts for MPhalcon_25:

(Start: 80 @21790 has 128 MA's), (157, 21967), (162, 21988), (220, 22135), (247, 22276), (254, 22309), (260, 22342), (268, 22378), (301, 22471), (319, 22531), (324, 22549), (350, 22681), (364,

22726), (393, 22858), (399, 22903), (416, 22963), (442, 23077), (445, 23098), (453, 23137), (456, 23158), (458, 23173), (489, 23323), (491, 23329), (494, 23347), (508, 23401), (525, 23485), (547, 23578), (591, 23824), (626, 24040), (637, 24124), (643, 24157),

Gene: MacKat_27 Start: 20889, Stop: 23321, Start Num: 88

Candidate Starts for MacKat_27:

(Start: 88 @20889 has 96 MA's), (132, 20988), (218, 21249), (223, 21270), (263, 21477), (272, 21510), (276, 21540), (297, 21612), (303, 21636), (316, 21681), (346, 21834), (353, 21879), (356, 21891), (360, 21900), (375, 21951), (406, 22131), (410, 22146), (424, 22215), (428, 22227), (440, 22290), (448, 22332), (456, 22371), (457, 22377), (458, 22386), (462, 22407), (475, 22467), (501, 22584), (509, 22626), (527, 22698), (529, 22707), (534, 22728), (548, 22800), (553, 22821), (565, 22917), (610, 23145), (626, 23292),

Gene: MadKillah_59 Start: 35875, Stop: 38385, Start Num: 57

Candidate Starts for MadKillah_59:

(Start: 57 @35875 has 33 MA's), (69, 35908), (93, 35977), (95, 35980), (106, 36004), (115, 36028), (126, 36052), (138, 36085), (200, 36292), (203, 36304), (204, 36307), (237, 36454), (240, 36484), (246, 36508), (255, 36538), (256, 36541), (260, 36568), (263, 36592), (273, 36622), (296, 36679), (302, 36703), (315, 36739), (316, 36751), (323, 36775), (324, 36778), (332, 36820), (352, 36916), (354, 36919), (413, 37174), (445, 37318), (456, 37378), (466, 37450), (467, 37453), (488, 37549), (525, 37723), (530, 37744), (552, 37837), (555, 37849), (565, 37939), (579, 38014), (598, 38059), (630, 38260), (635, 38314), (640, 38329),

Gene: MadMen_19 Start: 17637, Stop: 20129, Start Num: 43

Candidate Starts for MadMen_19:

(Start: 43 @17637 has 236 MA's), (52, 17658), (Start: 60 @17679 has 1 MA's), (77, 17718), (109, 17787), (113, 17796), (115, 17799), (124, 17817), (138, 17850), (153, 17883), (160, 17916), (179, 17955), (184, 17970), (195, 18006), (198, 18015), (210, 18033), (215, 18057), (222, 18081), (252, 18228), (255, 18237), (260, 18261), (263, 18285), (272, 18309), (273, 18315), (279, 18336), (293, 18357), (301, 18387), (312, 18417), (316, 18438), (338, 18531), (341, 18546), (342, 18555), (346, 18576), (347, 18579), (372, 18663), (373, 18666), (375, 18675), (380, 18702), (382, 18711), (388, 18750), (391, 18771), (393, 18774), (398, 18810), (401, 18831), (420, 18909), (421, 18912), (436, 18966), (447, 19026), (464, 19119), (466, 19137), (467, 19140), (476, 19176), (487, 19230), (489, 19239), (506, 19317), (509, 19335), (518, 19371), (519, 19374), (522, 19392), (523, 19395), (525, 19410), (536, 19467), (540, 19479), (559, 19575), (569, 19662), (578, 19710), (580, 19734), (591, 19770), (600, 19809), (608, 19848), (612, 19872), (615, 19893), (626, 19989), (631, 20010), (640, 20073), (643, 20100), (644, 20109),

Gene: MadamMonkfish_26 Start: 21702, Stop: 24098, Start Num: 80

Candidate Starts for MadamMonkfish_26:

(Start: 80 @21702 has 128 MA's), (157, 21879), (162, 21900), (220, 22047), (254, 22221), (260, 22254), (268, 22290), (301, 22383), (319, 22443), (324, 22461), (350, 22593), (364, 22638), (393, 22770), (399, 22815), (416, 22875), (442, 22989), (445, 23010), (453, 23049), (456, 23070), (458, 23085), (489, 23235), (491, 23241), (494, 23259), (508, 23313), (525, 23397), (547, 23490), (591, 23736), (626, 23952), (637, 24036), (643, 24069),

Gene: Madiba_19 Start: 17273, Stop: 19762, Start Num: 43

Candidate Starts for Madiba_19:

(Start: 43 @17273 has 236 MA's), (52, 17294), (Start: 60 @17315 has 1 MA's), (77, 17354), (109, 17423), (113, 17432), (115, 17435), (124, 17453), (143, 17501), (184, 17603), (195, 17639), (197, 17645), (198, 17648), (210, 17666), (215, 17690), (222, 17714), (235, 17777), (252, 17861), (255, 17870), (260, 17894), (263, 17918), (272, 17942), (273, 17948), (279, 17969), (293, 17990), (301, 18020), (312, 18050), (316, 18071), (338, 18164), (341, 18179), (342, 18188), (346, 18209), (347,

18212), (372, 18296), (373, 18299), (375, 18308), (380, 18335), (382, 18344), (388, 18383), (391, 18404), (393, 18407), (398, 18443), (401, 18464), (420, 18542), (421, 18545), (436, 18599), (447, 18659), (464, 18752), (466, 18770), (467, 18773), (476, 18809), (487, 18863), (489, 18872), (506, 18950), (509, 18968), (518, 19004), (519, 19007), (522, 19025), (523, 19028), (525, 19043), (536, 19100), (540, 19112), (559, 19208), (569, 19295), (578, 19343), (580, 19367), (587, 19394), (591, 19403), (600, 19442), (608, 19481), (612, 19505), (615, 19526), (626, 19622), (631, 19643), (640, 19706), (643, 19733), (644, 19742),

Gene: Mahavrat_18 Start: 17394, Stop: 19931, Start Num: 43

Candidate Starts for Mahavrat_18:

(Start: 43 @17394 has 236 MA's), (52, 17415), (Start: 60 @17436 has 1 MA's), (75, 17475), (109, 17544), (113, 17553), (115, 17556), (124, 17574), (138, 17607), (143, 17622), (194, 17781), (195, 17784), (212, 17829), (229, 17907), (233, 17931), (246, 17997), (260, 18072), (261, 18078), (272, 18120), (273, 18126), (274, 18129), (291, 18162), (293, 18168), (301, 18198), (310, 18219), (316, 18249), (319, 18258), (342, 18366), (345, 18378), (346, 18387), (347, 18390), (348, 18399), (349, 18405), (352, 18420), (354, 18423), (362, 18444), (375, 18486), (381, 18519), (399, 18630), (400, 18633), (405, 18660), (407, 18666), (420, 18720), (421, 18723), (428, 18750), (431, 18759), (445, 18825), (447, 18837), (448, 18840), (459, 18906), (463, 18927), (464, 18930), (467, 18951), (478, 19002), (482, 19020), (483, 19023), (489, 19053), (494, 19077), (499, 19089), (501, 19098), (522, 19194), (525, 19212), (528, 19221), (530, 19233), (536, 19269), (544, 19299), (549, 19320), (556, 19344), (559, 19380), (576, 19494), (581, 19536), (612, 19671), (616, 19695), (622, 19749), (631, 19818), (636, 19863), (637, 19866), (639, 19872),

Gene: Manda_27 Start: 22769, Stop: 25165, Start Num: 80

Candidate Starts for Manda_27:

(Start: 80 @22769 has 128 MA's), (157, 22946), (162, 22967), (220, 23114), (247, 23255), (254, 23288), (260, 23321), (268, 23357), (301, 23450), (319, 23510), (324, 23528), (350, 23660), (364, 23705), (393, 23837), (399, 23882), (416, 23942), (442, 24056), (445, 24077), (453, 24116), (456, 24137), (458, 24152), (489, 24302), (491, 24308), (494, 24326), (508, 24380), (525, 24464), (547, 24557), (591, 24803), (626, 25019), (637, 25103), (643, 25136),

Gene: Mandlovu_18 Start: 17495, Stop: 20032, Start Num: 43

Candidate Starts for Mandlovu_18:

(Start: 43 @17495 has 236 MA's), (52, 17516), (Start: 60 @17537 has 1 MA's), (75, 17576), (109, 17645), (113, 17654), (115, 17657), (124, 17675), (143, 17723), (194, 17882), (195, 17885), (211, 17927), (212, 17930), (229, 18008), (232, 18029), (233, 18032), (246, 18098), (260, 18173), (261, 18179), (272, 18221), (273, 18227), (274, 18230), (291, 18263), (293, 18269), (301, 18299), (310, 18320), (316, 18350), (319, 18359), (342, 18467), (345, 18479), (346, 18488), (347, 18491), (348, 18500), (349, 18506), (352, 18521), (354, 18524), (362, 18545), (375, 18587), (381, 18620), (405, 18761), (407, 18767), (420, 18821), (421, 18824), (428, 18851), (445, 18926), (447, 18938), (448, 18941), (459, 19007), (464, 19031), (467, 19052), (469, 19061), (482, 19121), (483, 19124), (491, 19160), (494, 19178), (501, 19199), (507, 19226), (522, 19295), (525, 19313), (528, 19322), (530, 19334), (536, 19370), (544, 19400), (559, 19481), (576, 19595), (581, 19637), (612, 19772), (616, 19796), (622, 19850), (636, 19964), (637, 19967),

Gene: Mantra_18 Start: 17496, Stop: 20033, Start Num: 43

Candidate Starts for Mantra_18:

(Start: 43 @17496 has 236 MA's), (52, 17517), (Start: 60 @17538 has 1 MA's), (75, 17577), (109, 17646), (113, 17655), (115, 17658), (124, 17676), (143, 17724), (190, 17877), (195, 17886), (212, 17931), (232, 18030), (233, 18033), (246, 18099), (260, 18174), (261, 18180), (263, 18198), (272, 18222), (273, 18228), (274, 18231), (291, 18264), (293, 18270), (301, 18300), (310, 18321), (316, 18351), (319, 18360), (323, 18375), (324, 18378), (346, 18489), (347, 18492), (348, 18501), (349, 18507), (352, 18522), (354, 18525), (362, 18546), (372, 18576), (375, 18588), (381, 18621), (399,

18732), (400, 18735), (405, 18762), (407, 18768), (420, 18822), (421, 18825), (443, 18912), (445, 18927), (447, 18939), (448, 18942), (459, 19008), (464, 19032), (467, 19053), (469, 19062), (482, 19122), (483, 19125), (491, 19161), (494, 19179), (499, 19191), (501, 19200), (507, 19227), (521, 19284), (522, 19296), (525, 19314), (528, 19323), (530, 19335), (536, 19371), (544, 19401), (547, 19410), (549, 19422), (559, 19482), (565, 19536), (576, 19596), (581, 19638), (612, 19773), (616, 19797), (622, 19851), (626, 19899), (634, 19941), (636, 19965), (637, 19968),

Gene: Maravista_18 Start: 17343, Stop: 19880, Start Num: 43

Candidate Starts for Maravista_18:

(35, 17331), (Start: 43 @17343 has 236 MA's), (52, 17364), (Start: 60 @17385 has 1 MA's), (75, 17424), (109, 17493), (113, 17502), (115, 17505), (124, 17523), (138, 17556), (143, 17571), (160, 17619), (194, 17730), (195, 17733), (208, 17763), (211, 17775), (212, 17778), (229, 17856), (233, 17880), (246, 17946), (255, 17991), (260, 18021), (261, 18027), (263, 18045), (272, 18069), (274, 18078), (291, 18111), (293, 18117), (301, 18147), (315, 18186), (316, 18198), (319, 18207), (323, 18222), (324, 18225), (346, 18336), (347, 18339), (348, 18348), (349, 18354), (352, 18369), (354, 18372), (362, 18393), (372, 18423), (375, 18435), (381, 18468), (399, 18579), (400, 18582), (405, 18609), (407, 18615), (420, 18669), (421, 18672), (445, 18774), (447, 18786), (448, 18789), (459, 18855), (464, 18879), (467, 18900), (469, 18909), (482, 18969), (483, 18972), (491, 19008), (494, 19026), (499, 19038), (501, 19047), (507, 19074), (522, 19143), (525, 19161), (528, 19170), (530, 19182), (536, 19218), (544, 19248), (549, 19269), (556, 19293), (559, 19329), (565, 19383), (576, 19443), (581, 19485), (612, 19620), (616, 19644), (622, 19698), (626, 19746), (631, 19767), (634, 19788), (636, 19812), (637, 19815),

Gene: MarkPhew_27 Start: 19997, Stop: 22450, Start Num: 88

Candidate Starts for MarkPhew_27:

(Start: 88 @19997 has 96 MA's), (109, 20045), (159, 20168), (180, 20225), (185, 20237), (216, 20354), (228, 20405), (253, 20534), (261, 20567), (283, 20678), (285, 20687), (286, 20696), (290, 20717), (303, 20765), (329, 20867), (358, 21026), (379, 21107), (397, 21209), (437, 21413), (440, 21422), (448, 21464), (456, 21509), (458, 21524), (496, 21707), (509, 21764), (534, 21866), (537, 21890), (550, 21947), (554, 21962), (570, 22091), (595, 22196), (625, 22415),

Gene: Marker_19 Start: 17246, Stop: 19783, Start Num: 43

Candidate Starts for Marker_19:

(Start: 43 @17246 has 236 MA's), (52, 17267), (Start: 60 @17288 has 1 MA's), (75, 17327), (109, 17396), (113, 17405), (115, 17408), (124, 17426), (143, 17474), (190, 17627), (195, 17636), (212, 17681), (232, 17780), (233, 17783), (246, 17849), (260, 17924), (261, 17930), (263, 17948), (272, 17972), (274, 17981), (291, 18014), (293, 18020), (301, 18050), (310, 18071), (315, 18089), (316, 18101), (319, 18110), (323, 18125), (324, 18128), (346, 18239), (347, 18242), (348, 18251), (349, 18257), (352, 18272), (354, 18275), (362, 18296), (372, 18326), (375, 18338), (381, 18371), (399, 18482), (400, 18485), (405, 18512), (407, 18518), (420, 18572), (421, 18575), (434, 18623), (443, 18662), (445, 18677), (447, 18689), (448, 18692), (452, 18713), (459, 18758), (464, 18782), (469, 18812), (478, 18854), (482, 18872), (483, 18875), (491, 18911), (494, 18929), (499, 18941), (501, 18950), (508, 18983), (522, 19046), (525, 19064), (528, 19073), (530, 19085), (544, 19151), (549, 19172), (556, 19196), (559, 19232), (565, 19286), (576, 19346), (581, 19388), (601, 19466), (612, 19523), (616, 19547), (622, 19601), (626, 19649), (634, 19691), (636, 19715), (637, 19718),

Gene: Marshawn_28 Start: 20676, Stop: 23132, Start Num: 88

Candidate Starts for Marshawn_28:

(Start: 88 @20676 has 96 MA's), (100, 20703), (132, 20775), (159, 20847), (180, 20904), (185, 20916), (195, 20949), (213, 21015), (216, 21033), (223, 21057), (224, 21060), (228, 21084), (241, 21156), (261, 21246), (267, 21282), (285, 21366), (297, 21420), (303, 21441), (304, 21447), (316, 21486), (329, 21543), (358, 21702), (369, 21741), (379, 21783), (383, 21801), (397, 21885), (401, 21915), (406, 21939), (415, 21972), (417, 21993), (436, 22077), (440, 22098), (448, 22140), (457, 22191),

(458, 22200), (464, 22227), (477, 22287), (491, 22353), (494, 22374), (496, 22383), (508, 22431), (516, 22470), (527, 22515), (534, 22545), (543, 22590), (554, 22641), (556, 22647), (570, 22770), (585, 22839), (596, 22881), (624, 23067), (625, 23097),

Gene: Marshmallow_26 Start: 22283, Stop: 24679, Start Num: 80

Candidate Starts for Marshmallow_26:

(Start: 80 @22283 has 128 MA's), (157, 22460), (162, 22481), (220, 22628), (247, 22769), (254, 22802), (260, 22835), (268, 22871), (301, 22964), (319, 23024), (324, 23042), (341, 23123), (393, 23351), (399, 23396), (445, 23591), (446, 23597), (448, 23606), (456, 23651), (458, 23666), (491, 23822), (494, 23840), (497, 23849), (525, 23978), (526, 23981), (564, 24191), (566, 24203), (591, 24317), (626, 24533), (637, 24617), (641, 24641), (643, 24650),

Gene: Martik_18 Start: 17406, Stop: 19958, Start Num: 43

Candidate Starts for Martik_18:

(Start: 43 @17406 has 236 MA's), (75, 17487), (109, 17556), (113, 17565), (115, 17568), (124, 17586), (143, 17634), (159, 17679), (194, 17793), (195, 17796), (199, 17808), (209, 17829), (211, 17838), (212, 17841), (223, 17889), (229, 17919), (240, 17985), (247, 18018), (255, 18054), (259, 18078), (273, 18138), (274, 18141), (279, 18159), (308, 18222), (310, 18225), (315, 18243), (319, 18264), (324, 18282), (330, 18309), (334, 18330), (341, 18363), (348, 18405), (349, 18411), (350, 18414), (354, 18429), (363, 18456), (364, 18459), (372, 18480), (375, 18492), (381, 18525), (397, 18618), (420, 18726), (426, 18750), (428, 18756), (433, 18774), (434, 18777), (439, 18801), (445, 18831), (450, 18855), (456, 18891), (457, 18897), (458, 18906), (463, 18933), (473, 18996), (478, 19020), (479, 19035), (489, 19077), (502, 19128), (523, 19224), (525, 19239), (528, 19248), (533, 19272), (547, 19335), (556, 19371), (609, 19677), (616, 19722), (626, 19824),

Gene: MaryV_43 Start: 28332, Stop: 30899, Start Num: 42

Candidate Starts for MaryV_43:

(Start: 42 @28332 has 6 MA's), (69, 28401), (119, 28524), (123, 28530), (124, 28533), (136, 28557), (142, 28578), (190, 28734), (193, 28740), (195, 28746), (204, 28776), (206, 28782), (212, 28803), (214, 28812), (226, 28872), (242, 28950), (261, 29049), (269, 29082), (273, 29097), (274, 29100), (293, 29139), (310, 29190), (315, 29208), (319, 29229), (321, 29235), (328, 29262), (332, 29289), (346, 29358), (351, 29382), (357, 29403), (364, 29424), (368, 29433), (375, 29454), (381, 29487), (382, 29490), (390, 29541), (393, 29553), (403, 29619), (408, 29637), (417, 29676), (445, 29793), (454, 29838), (463, 29895), (467, 29919), (469, 29928), (472, 29946), (482, 29991), (489, 30024), (496, 30060), (535, 30234), (536, 30252), (538, 30258), (553, 30315), (611, 30639), (613, 30657), (620, 30708), (627, 30771), (636, 30846),

Gene: Mattes_18 Start: 17397, Stop: 19922, Start Num: 43

Candidate Starts for Mattes_18:

(Start: 43 @17397 has 236 MA's), (52, 17418), (Start: 60 @17439 has 1 MA's), (75, 17478), (109, 17547), (113, 17556), (115, 17559), (124, 17577), (143, 17625), (160, 17673), (194, 17784), (195, 17787), (210, 17820), (212, 17832), (229, 17910), (240, 17976), (247, 18009), (258, 18063), (260, 18075), (273, 18129), (274, 18132), (275, 18141), (294, 18174), (308, 18213), (310, 18216), (314, 18231), (315, 18234), (321, 18261), (322, 18267), (323, 18270), (324, 18273), (330, 18300), (333, 18318), (334, 18321), (348, 18396), (352, 18417), (354, 18420), (363, 18447), (372, 18471), (381, 18516), (382, 18519), (390, 18570), (400, 18633), (401, 18642), (407, 18666), (434, 18771), (435, 18774), (445, 18825), (446, 18831), (447, 18837), (448, 18840), (456, 18885), (458, 18900), (463, 18927), (467, 18951), (478, 19002), (482, 19020), (483, 19023), (484, 19035), (499, 19089), (525, 19212), (538, 19275), (554, 19338), (561, 19413), (603, 19614), (633, 19824), (639, 19863), (640, 19866),

Gene: Maxxinista_27 Start: 21751, Stop: 24147, Start Num: 80

Candidate Starts for Maxxinista_27:

(Start: 80 @21751 has 128 MA's), (157, 21928), (162, 21949), (220, 22096), (254, 22270), (260, 22303), (268, 22339), (301, 22432), (319, 22492), (324, 22510), (350, 22642), (364, 22687), (393, 22819), (399, 22864), (416, 22924), (442, 23038), (445, 23059), (453, 23098), (456, 23119), (458, 23134), (489, 23284), (491, 23290), (494, 23308), (508, 23362), (525, 23446), (547, 23539), (591, 23785), (626, 24001), (637, 24085), (643, 24118),

Gene: MeaningOfLife_27 Start: 20848, Stop: 23280, Start Num: 88

Candidate Starts for MeaningOfLife_27:

(Start: 88 @20848 has 96 MA's), (132, 20947), (185, 21088), (218, 21208), (223, 21229), (263, 21436), (272, 21469), (276, 21499), (297, 21571), (303, 21595), (346, 21793), (353, 21838), (356, 21850), (360, 21859), (375, 21910), (406, 22090), (410, 22105), (424, 22174), (428, 22186), (440, 22249), (448, 22291), (456, 22330), (457, 22336), (458, 22345), (462, 22366), (475, 22426), (501, 22543), (509, 22585), (527, 22657), (529, 22666), (534, 22687), (548, 22759), (553, 22780), (565, 22876), (576, 22939), (594, 23023), (602, 23065), (610, 23104),

Gene: Medindi_18 Start: 17393, Stop: 19930, Start Num: 43

Candidate Starts for Medindi_18:

(35, 17381), (Start: 43 @17393 has 236 MA's), (52, 17414), (Start: 60 @17435 has 1 MA's), (75, 17474), (109, 17543), (113, 17552), (115, 17555), (124, 17573), (138, 17606), (143, 17621), (160, 17669), (194, 17780), (195, 17783), (208, 17813), (210, 17816), (212, 17828), (229, 17906), (233, 17930), (246, 17996), (255, 18041), (260, 18071), (261, 18077), (263, 18095), (272, 18119), (274, 18128), (291, 18161), (293, 18167), (301, 18197), (316, 18248), (319, 18257), (323, 18272), (324, 18275), (346, 18386), (347, 18389), (348, 18398), (349, 18404), (352, 18419), (354, 18422), (362, 18443), (372, 18473), (375, 18485), (381, 18518), (399, 18629), (400, 18632), (405, 18659), (407, 18665), (420, 18719), (421, 18722), (445, 18824), (447, 18836), (448, 18839), (459, 18905), (463, 18926), (464, 18929), (467, 18950), (469, 18959), (482, 19019), (483, 19022), (491, 19058), (494, 19076), (499, 19088), (501, 19097), (507, 19124), (522, 19193), (525, 19211), (528, 19220), (530, 19232), (536, 19268), (544, 19298), (549, 19319), (556, 19343), (559, 19379), (565, 19433), (576, 19493), (581, 19535), (601, 19613), (612, 19670), (616, 19694), (622, 19748), (626, 19796), (634, 19838), (636, 19862), (637, 19865),

Gene: Megatron06_31 Start: 26215, Stop: 29058, Start Num: 15

Candidate Starts for Megatron06_31:

(Start: 15 @26215 has 8 MA's), (19, 26347), (21, 26359), (23, 26368), (38, 26437), (41, 26443), (65, 26503), (71, 26524), (89, 26572), (107, 26614), (118, 26638), (129, 26671), (145, 26707), (152, 26719), (178, 26812), (195, 26869), (207, 26908), (235, 27034), (247, 27103), (253, 27133), (261, 27175), (274, 27226), (310, 27316), (315, 27334), (332, 27415), (341, 27454), (345, 27475), (381, 27613), (387, 27652), (398, 27715), (421, 27817), (466, 28042), (545, 28405), (552, 28432), (593, 28675), (599, 28708), (605, 28732), (621, 28852), (632, 28930), (643, 29017), (645, 29032), (646, 29038),

Gene: Megsy_27 Start: 20849, Stop: 23281, Start Num: 88

Candidate Starts for Megsy_27:

(Start: 88 @20849 has 96 MA's), (132, 20948), (218, 21209), (263, 21437), (272, 21470), (276, 21500), (297, 21572), (303, 21596), (346, 21794), (353, 21839), (356, 21851), (360, 21860), (375, 21911), (406, 22091), (410, 22106), (424, 22175), (428, 22187), (440, 22250), (448, 22292), (456, 22331), (457, 22337), (458, 22346), (462, 22367), (475, 22427), (501, 22544), (509, 22586), (527, 22658), (529, 22667), (534, 22688), (548, 22760), (553, 22781), (565, 22877), (610, 23105), (626, 23252),

Gene: Melissauren88_18 Start: 17470, Stop: 19965, Start Num: 60

Candidate Starts for Melissauren88_18:

(35, 17416), (Start: 43 @17428 has 236 MA's), (52, 17449), (Start: 60 @17470 has 1 MA's), (75, 17509), (109, 17578), (113, 17587), (115, 17590), (124, 17608), (138, 17641), (143, 17656), (160,

17704), (194, 17815), (195, 17818), (208, 17848), (211, 17860), (212, 17863), (229, 17941), (233, 17965), (246, 18031), (255, 18076), (260, 18106), (261, 18112), (263, 18130), (272, 18154), (274, 18163), (291, 18196), (293, 18202), (301, 18232), (315, 18271), (316, 18283), (319, 18292), (323, 18307), (324, 18310), (346, 18421), (347, 18424), (348, 18433), (349, 18439), (352, 18454), (354, 18457), (362, 18478), (372, 18508), (375, 18520), (381, 18553), (399, 18664), (400, 18667), (405, 18694), (407, 18700), (420, 18754), (421, 18757), (443, 18844), (445, 18859), (447, 18871), (448, 18874), (459, 18940), (464, 18964), (467, 18985), (469, 18994), (482, 19054), (483, 19057), (491, 19093), (494, 19111), (499, 19123), (501, 19132), (507, 19159), (522, 19228), (525, 19246), (528, 19255), (530, 19267), (536, 19303), (544, 19333), (549, 19354), (556, 19378), (559, 19414), (565, 19468), (576, 19528), (581, 19570), (601, 19648), (612, 19705), (616, 19729), (622, 19783), (626, 19831), (634, 19873), (636, 19897), (637, 19900),

Gene: Mercurio_24 Start: 21194, Stop: 23665, Start Num: 39

Candidate Starts for Mercurio_24:

(Start: 39 @21194 has 9 MA's), (66, 21260), (77, 21302), (135, 21410), (185, 21533), (203, 21596), (222, 21674), (272, 21905), (284, 21938), (289, 21950), (320, 22052), (330, 22094), (338, 22133), (341, 22148), (350, 22199), (361, 22235), (379, 22301), (384, 22328), (420, 22526), (434, 22601), (438, 22622), (458, 22730), (465, 22775), (478, 22826), (482, 22850), (490, 22886), (494, 22910), (500, 22931), (534, 23069), (554, 23165), (571, 23303),

Gene: MiaZeal_36 Start: 27554, Stop: 30061, Start Num: 43

Candidate Starts for MiaZeal_36:

(Start: 43 @27554 has 236 MA's), (124, 27749), (138, 27785), (143, 27800), (179, 27887), (184, 27902), (212, 27977), (215, 27989), (223, 28016), (243, 28121), (252, 28160), (255, 28169), (260, 28193), (261, 28199), (263, 28217), (274, 28250), (275, 28259), (279, 28268), (291, 28283), (299, 28310), (301, 28319), (315, 28358), (316, 28370), (319, 28379), (338, 28463), (354, 28544), (364, 28574), (365, 28577), (375, 28607), (380, 28634), (382, 28643), (390, 28694), (391, 28703), (393, 28706), (398, 28742), (401, 28763), (411, 28799), (446, 28952), (456, 29006), (464, 29051), (466, 29069), (467, 29072), (476, 29111), (506, 29258), (508, 29267), (523, 29336), (525, 29351), (559, 29516), (569, 29603), (578, 29651), (591, 29702), (608, 29780), (638, 30002), (640, 30005), (643, 30032),

Gene: MilleniumForce_19 Start: 18211, Stop: 20748, Start Num: 43

Candidate Starts for MilleniumForce_19:

(35, 18199), (Start: 43 @18211 has 236 MA's), (52, 18232), (Start: 60 @18253 has 1 MA's), (75, 18292), (109, 18361), (113, 18370), (115, 18373), (124, 18391), (138, 18424), (143, 18439), (160, 18487), (194, 18598), (195, 18601), (208, 18631), (211, 18643), (212, 18646), (229, 18724), (233, 18748), (246, 18814), (255, 18859), (260, 18889), (261, 18895), (263, 18913), (272, 18937), (274, 18946), (291, 18979), (293, 18985), (301, 19015), (315, 19054), (316, 19066), (319, 19075), (323, 19090), (324, 19093), (346, 19204), (347, 19207), (348, 19216), (349, 19222), (352, 19237), (354, 19240), (362, 19261), (372, 19291), (375, 19303), (381, 19336), (399, 19447), (400, 19450), (405, 19477), (407, 19483), (420, 19537), (421, 19540), (445, 19642), (447, 19654), (448, 19657), (459, 19723), (464, 19747), (467, 19768), (469, 19777), (482, 19837), (483, 19840), (491, 19876), (494, 19894), (499, 19906), (501, 19915), (507, 19942), (522, 20011), (525, 20029), (528, 20038), (530, 20050), (536, 20086), (544, 20116), (549, 20137), (556, 20161), (559, 20197), (565, 20251), (576, 20311), (581, 20353), (601, 20431), (612, 20488), (616, 20512), (622, 20566), (626, 20614), (634, 20656), (636, 20680), (637, 20683),

Gene: Mindy_26 Start: 22062, Stop: 24458, Start Num: 80

Candidate Starts for Mindy_26:

(Start: 80 @22062 has 128 MA's), (157, 22239), (162, 22260), (220, 22407), (247, 22548), (254, 22581), (260, 22614), (268, 22650), (301, 22743), (319, 22803), (324, 22821), (357, 22977), (364, 22998), (390, 23118), (393, 23130), (399, 23175), (445, 23370), (448, 23385), (456, 23430), (458,

23445), (491, 23601), (494, 23619), (497, 23628), (525, 23757), (526, 23760), (564, 23970), (566, 23982), (591, 24096), (626, 24312), (637, 24396), (641, 24420), (643, 24429),

Gene: Minerva_39 Start: 31221, Stop: 33764, Start Num: 43

Candidate Starts for Minerva_39:

(28, 31164), (Start: 43 @31221 has 236 MA's), (121, 31410), (143, 31467), (159, 31512), (194, 31626), (195, 31629), (202, 31650), (210, 31662), (212, 31674), (229, 31752), (240, 31818), (247, 31851), (255, 31887), (259, 31911), (273, 31971), (274, 31974), (279, 31992), (308, 32055), (310, 32058), (315, 32076), (319, 32097), (324, 32115), (330, 32142), (334, 32163), (341, 32196), (349, 32244), (350, 32247), (354, 32262), (363, 32289), (372, 32313), (381, 32358), (401, 32484), (420, 32562), (435, 32616), (445, 32667), (446, 32673), (447, 32679), (448, 32682), (456, 32727), (458, 32742), (463, 32769), (467, 32793), (478, 32844), (482, 32862), (483, 32865), (484, 32877), (499, 32931), (508, 32973), (538, 33117), (552, 33171), (553, 33177), (554, 33180), (557, 33216), (558, 33219), (560, 33228), (561, 33255), (603, 33456), (626, 33627), (633, 33666), (640, 33708),

Gene: MinionDave_19 Start: 18080, Stop: 20617, Start Num: 43

Candidate Starts for MinionDave_19:

(Start: 43 @18080 has 236 MA's), (83, 18170), (109, 18230), (113, 18239), (115, 18242), (124, 18260), (138, 18293), (143, 18308), (160, 18356), (194, 18467), (195, 18470), (208, 18500), (211, 18512), (212, 18515), (229, 18593), (233, 18617), (246, 18683), (255, 18728), (260, 18758), (261, 18764), (263, 18782), (272, 18806), (274, 18815), (291, 18848), (293, 18854), (301, 18884), (315, 18923), (316, 18935), (319, 18944), (323, 18959), (324, 18962), (346, 19073), (347, 19076), (348, 19085), (349, 19091), (352, 19106), (354, 19109), (362, 19130), (372, 19160), (375, 19172), (381, 19205), (399, 19316), (400, 19319), (405, 19346), (407, 19352), (420, 19406), (421, 19409), (443, 19496), (445, 19511), (447, 19523), (448, 19526), (459, 19592), (464, 19616), (467, 19637), (469, 19646), (482, 19706), (483, 19709), (491, 19745), (494, 19763), (499, 19775), (501, 19784), (507, 19811), (522, 19880), (525, 19898), (528, 19907), (530, 19919), (536, 19955), (544, 19985), (549, 20006), (556, 20030), (559, 20066), (565, 20120), (576, 20180), (581, 20222), (601, 20300), (612, 20357), (616, 20381), (622, 20435), (626, 20483), (634, 20525), (636, 20549), (637, 20552),

Gene: Miniwave_26 Start: 22481, Stop: 24877, Start Num: 80

Candidate Starts for Miniwave_26:

(Start: 80 @22481 has 128 MA's), (157, 22658), (162, 22679), (220, 22826), (247, 22967), (254, 23000), (260, 23033), (268, 23069), (301, 23162), (319, 23222), (324, 23240), (350, 23372), (364, 23417), (393, 23549), (399, 23594), (416, 23654), (442, 23768), (445, 23789), (453, 23828), (456, 23849), (458, 23864), (489, 24014), (491, 24020), (494, 24038), (508, 24092), (525, 24176), (547, 24269), (591, 24515), (626, 24731), (637, 24815), (643, 24848),

Gene: Minnie_19 Start: 17940, Stop: 20477, Start Num: 43

Candidate Starts for Minnie_19:

(35, 17928), (Start: 43 @17940 has 236 MA's), (52, 17961), (Start: 60 @17982 has 1 MA's), (75, 18021), (109, 18090), (113, 18099), (115, 18102), (124, 18120), (138, 18153), (143, 18168), (160, 18216), (194, 18327), (195, 18330), (208, 18360), (211, 18372), (212, 18375), (229, 18453), (233, 18477), (246, 18543), (255, 18588), (260, 18618), (261, 18624), (263, 18642), (272, 18666), (274, 18675), (291, 18708), (293, 18714), (301, 18744), (315, 18783), (316, 18795), (319, 18804), (323, 18819), (324, 18822), (346, 18933), (347, 18936), (348, 18945), (349, 18951), (352, 18966), (354, 18969), (362, 18990), (372, 19020), (375, 19032), (381, 19065), (399, 19176), (400, 19179), (405, 19206), (407, 19212), (420, 19266), (421, 19269), (445, 19371), (447, 19383), (448, 19386), (459, 19452), (464, 19476), (467, 19497), (469, 19506), (482, 19566), (483, 19569), (491, 19605), (494, 19623), (499, 19635), (501, 19644), (507, 19671), (522, 19740), (525, 19758), (528, 19767), (530, 19779), (536, 19815), (544, 19845), (549, 19866), (556, 19890), (559, 19926), (565, 19980), (576, 20040), (581, 20082), (601, 20160), (612, 20217), (616, 20241), (622, 20295), (626, 20343), (634, 20385), (636, 20409), (637, 20412),

Gene: Misfit_26 Start: 22371, Stop: 24767, Start Num: 80

Candidate Starts for Misfit_26:

(Start: 80 @22371 has 128 MA's), (157, 22548), (162, 22569), (220, 22716), (247, 22857), (254, 22890), (260, 22923), (268, 22959), (301, 23052), (319, 23112), (324, 23130), (350, 23262), (364, 23307), (393, 23439), (399, 23484), (416, 23544), (442, 23658), (445, 23679), (453, 23718), (456, 23739), (458, 23754), (489, 23904), (491, 23910), (494, 23928), (508, 23982), (525, 24066), (547, 24159), (591, 24405), (626, 24621), (637, 24705), (643, 24738),

Gene: Misha28_19 Start: 17273, Stop: 19798, Start Num: 43

Candidate Starts for Misha28_19:

(Start: 43 @17273 has 236 MA's), (52, 17294), (Start: 60 @17315 has 1 MA's), (75, 17354), (109, 17423), (113, 17432), (115, 17435), (124, 17453), (138, 17486), (143, 17501), (160, 17549), (194, 17660), (195, 17663), (212, 17708), (229, 17786), (233, 17810), (246, 17876), (255, 17921), (260, 17951), (261, 17957), (263, 17975), (272, 17999), (274, 18008), (291, 18041), (293, 18047), (301, 18077), (315, 18116), (316, 18128), (319, 18137), (323, 18152), (324, 18155), (354, 18302), (372, 18353), (392, 18464), (400, 18515), (404, 18539), (428, 18632), (439, 18677), (442, 18686), (445, 18707), (447, 18719), (448, 18722), (456, 18767), (464, 18812), (466, 18830), (467, 18833), (478, 18884), (489, 18935), (491, 18941), (494, 18959), (499, 18971), (501, 18980), (508, 19013), (525, 19094), (540, 19163), (547, 19190), (553, 19217), (560, 19268), (565, 19316), (615, 19559), (626, 19664), (631, 19685), (639, 19739), (642, 19763),

Gene: MisterCuddles_18 Start: 17371, Stop: 19908, Start Num: 43

Candidate Starts for MisterCuddles_18:

(Start: 43 @17371 has 236 MA's), (52, 17392), (Start: 60 @17413 has 1 MA's), (75, 17452), (109, 17521), (113, 17530), (115, 17533), (124, 17551), (138, 17584), (143, 17599), (190, 17752), (195, 17761), (212, 17806), (232, 17905), (233, 17908), (246, 17974), (260, 18049), (261, 18055), (272, 18097), (273, 18103), (274, 18106), (291, 18139), (293, 18145), (301, 18175), (310, 18196), (316, 18226), (319, 18235), (323, 18250), (324, 18253), (346, 18364), (347, 18367), (348, 18376), (349, 18382), (352, 18397), (354, 18400), (362, 18421), (372, 18451), (375, 18463), (381, 18496), (399, 18607), (400, 18610), (405, 18637), (407, 18643), (420, 18697), (421, 18700), (443, 18787), (445, 18802), (447, 18814), (448, 18817), (459, 18883), (464, 18907), (467, 18928), (469, 18937), (478, 18979), (482, 18997), (483, 19000), (489, 19030), (494, 19054), (499, 19066), (501, 19075), (522, 19171), (525, 19189), (528, 19198), (530, 19210), (536, 19246), (544, 19276), (547, 19285), (549, 19297), (559, 19357), (565, 19411), (576, 19471), (581, 19513), (612, 19648), (616, 19672), (622, 19726), (626, 19774), (634, 19816), (636, 19840), (637, 19843),

Gene: Modragons_18 Start: 17634, Stop: 20171, Start Num: 43

Candidate Starts for Modragons_18:

(Start: 43 @17634 has 236 MA's), (52, 17655), (Start: 60 @17676 has 1 MA's), (75, 17715), (109, 17784), (113, 17793), (115, 17796), (124, 17814), (143, 17862), (194, 18021), (195, 18024), (211, 18066), (212, 18069), (229, 18147), (232, 18168), (233, 18171), (246, 18237), (247, 18246), (255, 18282), (260, 18312), (261, 18318), (272, 18360), (273, 18366), (274, 18369), (291, 18402), (293, 18408), (301, 18438), (310, 18459), (316, 18489), (319, 18498), (342, 18606), (345, 18618), (346, 18627), (347, 18630), (348, 18639), (349, 18645), (352, 18660), (354, 18663), (362, 18684), (375, 18726), (381, 18759), (405, 18900), (407, 18906), (420, 18960), (421, 18963), (428, 18990), (445, 19065), (447, 19077), (448, 19080), (459, 19146), (463, 19167), (464, 19170), (467, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (499, 19329), (522, 19434), (525, 19452), (528, 19461), (530, 19473), (536, 19509), (544, 19539), (549, 19560), (556, 19584), (559, 19620), (576, 19734), (581, 19776), (601, 19854), (612, 19911), (616, 19935), (622, 19989), (626, 20037), (634, 20079), (636, 20103), (637, 20106),

Gene: Moldemort_27 Start: 22026, Stop: 24422, Start Num: 80

Candidate Starts for Moldemort_27:

(Start: 80 @22026 has 128 MA's), (157, 22203), (162, 22224), (220, 22371), (254, 22545), (260, 22578), (268, 22614), (301, 22707), (319, 22767), (324, 22785), (350, 22917), (364, 22962), (393, 23094), (399, 23139), (416, 23199), (442, 23313), (445, 23334), (453, 23373), (456, 23394), (458, 23409), (489, 23559), (491, 23565), (494, 23583), (508, 23637), (525, 23721), (547, 23814), (591, 24060), (626, 24276), (637, 24360), (643, 24393),

Gene: MollyToe_26 Start: 22455, Stop: 24851, Start Num: 80

Candidate Starts for MollyToe_26:

(Start: 80 @22455 has 128 MA's), (157, 22632), (162, 22653), (220, 22800), (247, 22941), (254, 22974), (260, 23007), (268, 23043), (301, 23136), (319, 23196), (324, 23214), (350, 23346), (364, 23391), (393, 23523), (399, 23568), (442, 23742), (445, 23763), (453, 23802), (456, 23823), (458, 23838), (491, 23994), (494, 24012), (508, 24066), (525, 24150), (547, 24243), (591, 24489), (626, 24705), (637, 24789), (643, 24822),

Gene: MooMoo_18 Start: 17135, Stop: 19570, Start Num: 43

Candidate Starts for MooMoo_18:

(Start: 43 @17135 has 236 MA's), (49, 17147), (56, 17168), (72, 17213), (78, 17231), (84, 17243), (116, 17318), (157, 17414), (169, 17441), (175, 17450), (181, 17468), (183, 17471), (185, 17480), (215, 17555), (217, 17564), (221, 17573), (244, 17651), (260, 17717), (261, 17723), (270, 17759), (271, 17762), (272, 17765), (273, 17771), (275, 17783), (279, 17792), (291, 17807), (306, 17858), (314, 17879), (315, 17882), (319, 17903), (326, 17927), (335, 17972), (346, 18032), (347, 18035), (351, 18056), (357, 18077), (368, 18110), (372, 18119), (381, 18164), (382, 18167), (383, 18173), (388, 18206), (390, 18218), (391, 18227), (393, 18230), (416, 18335), (421, 18368), (447, 18482), (457, 18536), (462, 18569), (463, 18572), (464, 18575), (466, 18593), (476, 18632), (489, 18695), (506, 18773), (509, 18791), (522, 18848), (523, 18851), (526, 18869), (538, 18929), (542, 18944), (556, 18998), (565, 19085), (580, 19190), (593, 19217), (608, 19289), (612, 19313), (626, 19430), (631, 19451), (638, 19511), (640, 19514), (643, 19541), (644, 19550),

Gene: Moonbeam_19 Start: 17889, Stop: 20426, Start Num: 43

Candidate Starts for Moonbeam_19:

(35, 17877), (Start: 43 @17889 has 236 MA's), (52, 17910), (Start: 60 @17931 has 1 MA's), (75, 17970), (109, 18039), (113, 18048), (115, 18051), (124, 18069), (138, 18102), (143, 18117), (160, 18165), (194, 18276), (195, 18279), (208, 18309), (211, 18321), (212, 18324), (229, 18402), (233, 18426), (246, 18492), (255, 18537), (260, 18567), (261, 18573), (263, 18591), (272, 18615), (274, 18624), (291, 18657), (293, 18663), (301, 18693), (315, 18732), (316, 18744), (319, 18753), (323, 18768), (324, 18771), (346, 18882), (347, 18885), (348, 18894), (349, 18900), (352, 18915), (354, 18918), (362, 18939), (372, 18969), (375, 18981), (381, 19014), (399, 19125), (400, 19128), (405, 19155), (407, 19161), (420, 19215), (421, 19218), (443, 19305), (445, 19320), (447, 19332), (448, 19335), (459, 19401), (464, 19425), (467, 19446), (469, 19455), (478, 19497), (482, 19515), (483, 19518), (491, 19554), (494, 19572), (499, 19584), (501, 19593), (507, 19620), (522, 19689), (525, 19707), (528, 19716), (530, 19728), (536, 19764), (544, 19794), (549, 19815), (556, 19839), (559, 19875), (565, 19929), (576, 19989), (581, 20031), (601, 20109), (612, 20166), (616, 20190), (622, 20244), (626, 20292), (634, 20334), (636, 20358), (637, 20361),

Gene: Mori_58 Start: 36137, Stop: 38647, Start Num: 57

Candidate Starts for Mori_58:

(Start: 57 @36137 has 33 MA's), (69, 36170), (93, 36239), (95, 36242), (106, 36266), (115, 36290), (126, 36314), (138, 36347), (200, 36554), (203, 36566), (204, 36569), (237, 36716), (240, 36746), (246, 36770), (255, 36800), (256, 36803), (260, 36830), (263, 36854), (273, 36884), (296, 36941), (302, 36965), (315, 37001), (316, 37013), (323, 37037), (324, 37040), (332, 37082), (352, 37178), (354, 37181), (413, 37436), (445, 37580), (456, 37640), (466, 37712), (467, 37715), (488, 37811), (525, 37985), (530, 38006), (552, 38099), (555, 38111), (565, 38201), (579, 38276), (598, 38321),

(630, 38522), (635, 38576), (640, 38591),

Gene: Mosby_25 Start: 21791, Stop: 24187, Start Num: 80

Candidate Starts for Mosby_25:

(Start: 80 @21791 has 128 MA's), (157, 21968), (162, 21989), (220, 22136), (247, 22277), (254, 22310), (260, 22343), (268, 22379), (301, 22472), (319, 22532), (324, 22550), (350, 22682), (364, 22727), (393, 22859), (399, 22904), (442, 23078), (445, 23099), (453, 23138), (456, 23159), (458, 23174), (491, 23330), (494, 23348), (508, 23402), (525, 23486), (547, 23579), (591, 23825), (626, 24041), (637, 24125), (643, 24158),

Gene: Mova_19 Start: 17248, Stop: 19785, Start Num: 43

Candidate Starts for Mova_19:

(Start: 43 @17248 has 236 MA's), (52, 17269), (Start: 60 @17290 has 1 MA's), (75, 17329), (109, 17398), (113, 17407), (115, 17410), (124, 17428), (138, 17461), (143, 17476), (194, 17635), (195, 17638), (212, 17683), (229, 17761), (233, 17785), (246, 17851), (260, 17926), (261, 17932), (263, 17950), (272, 17974), (274, 17983), (291, 18016), (293, 18022), (301, 18052), (310, 18073), (315, 18091), (319, 18112), (323, 18127), (324, 18130), (342, 18220), (346, 18241), (347, 18244), (348, 18253), (349, 18259), (352, 18274), (354, 18277), (362, 18298), (375, 18340), (381, 18373), (393, 18439), (399, 18484), (400, 18487), (405, 18514), (407, 18520), (420, 18574), (421, 18577), (428, 18604), (443, 18664), (445, 18679), (447, 18691), (448, 18694), (459, 18760), (464, 18784), (469, 18814), (478, 18856), (482, 18874), (483, 18877), (491, 18913), (494, 18931), (499, 18943), (501, 18952), (507, 18979), (522, 19048), (525, 19066), (528, 19075), (530, 19087), (536, 19123), (544, 19153), (549, 19174), (556, 19198), (559, 19234), (565, 19288), (581, 19390), (612, 19525), (616, 19549), (622, 19603), (626, 19651), (634, 19693), (636, 19717), (637, 19720),

Gene: Mozy_19 Start: 17298, Stop: 19835, Start Num: 43

Candidate Starts for Mozy_19:

(Start: 43 @17298 has 236 MA's), (52, 17319), (Start: 60 @17340 has 1 MA's), (75, 17379), (109, 17448), (113, 17457), (115, 17460), (124, 17478), (138, 17511), (143, 17526), (194, 17685), (195, 17688), (208, 17718), (212, 17733), (229, 17811), (232, 17832), (233, 17835), (246, 17901), (260, 17976), (261, 17982), (272, 18024), (273, 18030), (274, 18033), (291, 18066), (293, 18072), (301, 18102), (310, 18123), (316, 18153), (319, 18162), (346, 18291), (347, 18294), (348, 18303), (349, 18309), (352, 18324), (354, 18327), (362, 18348), (372, 18378), (375, 18390), (381, 18423), (382, 18426), (393, 18489), (405, 18564), (407, 18570), (420, 18624), (421, 18627), (428, 18654), (445, 18729), (447, 18741), (448, 18744), (459, 18810), (464, 18834), (469, 18864), (482, 18924), (483, 18927), (491, 18963), (494, 18981), (501, 19002), (522, 19098), (525, 19116), (528, 19125), (530, 19137), (536, 19173), (549, 19224), (559, 19284), (565, 19338), (581, 19440), (601, 19518), (612, 19575), (616, 19599), (622, 19653), (626, 19701), (634, 19743), (636, 19767), (637, 19770),

Gene: MulchExplorer_20 Start: 18519, Stop: 21056, Start Num: 43

Candidate Starts for MulchExplorer_20:

(35, 18507), (Start: 43 @18519 has 236 MA's), (52, 18540), (Start: 60 @18561 has 1 MA's), (75, 18600), (109, 18669), (113, 18678), (115, 18681), (124, 18699), (138, 18732), (143, 18747), (160, 18795), (194, 18906), (195, 18909), (208, 18939), (211, 18951), (212, 18954), (229, 19032), (233, 19056), (246, 19122), (255, 19167), (260, 19197), (261, 19203), (263, 19221), (272, 19245), (274, 19254), (291, 19287), (293, 19293), (301, 19323), (315, 19362), (316, 19374), (319, 19383), (323, 19398), (324, 19401), (346, 19512), (347, 19515), (348, 19524), (349, 19530), (352, 19545), (354, 19548), (362, 19569), (372, 19599), (375, 19611), (381, 19644), (399, 19755), (400, 19758), (405, 19785), (407, 19791), (420, 19845), (421, 19848), (443, 19935), (445, 19950), (447, 19962), (448, 19965), (459, 20031), (464, 20055), (467, 20076), (469, 20085), (478, 20127), (482, 20145), (483, 20148), (491, 20184), (494, 20202), (499, 20214), (501, 20223), (507, 20250), (522, 20319), (525, 20337), (528, 20346), (530, 20358), (536, 20394), (544, 20424), (549, 20445), (556, 20469), (559, 20505), (565, 20559), (576, 20619), (581, 20661), (601, 20739), (612, 20796), (616, 20820), (622,

20874), (626, 20922), (634, 20964), (636, 20988), (637, 20991),

Gene: Murai_59 Start: 36318, Stop: 38828, Start Num: 57

Candidate Starts for Murai_59:

(Start: 57 @36318 has 33 MA's), (69, 36351), (93, 36420), (95, 36423), (106, 36447), (115, 36471), (126, 36495), (138, 36528), (200, 36735), (203, 36747), (204, 36750), (237, 36897), (240, 36927), (246, 36951), (255, 36981), (256, 36984), (260, 37011), (263, 37035), (273, 37065), (296, 37122), (315, 37182), (316, 37194), (323, 37218), (324, 37221), (332, 37263), (352, 37359), (354, 37362), (413, 37617), (445, 37761), (456, 37821), (466, 37893), (467, 37896), (488, 37992), (525, 38166), (530, 38187), (552, 38280), (555, 38292), (565, 38382), (579, 38457), (598, 38502), (630, 38703), (635, 38757), (640, 38772),

Gene: Murica_25 Start: 22268, Stop: 24664, Start Num: 80

Candidate Starts for Murica_25:

(Start: 80 @22268 has 128 MA's), (157, 22445), (162, 22466), (220, 22613), (247, 22754), (254, 22787), (260, 22820), (268, 22856), (301, 22949), (319, 23009), (324, 23027), (350, 23159), (364, 23204), (393, 23336), (399, 23381), (416, 23441), (442, 23555), (445, 23576), (453, 23615), (456, 23636), (458, 23651), (489, 23801), (491, 23807), (494, 23825), (508, 23879), (525, 23963), (547, 24056), (591, 24302), (626, 24518), (637, 24602), (643, 24635),

Gene: Murphy_27 Start: 22263, Stop: 24659, Start Num: 80

Candidate Starts for Murphy_27:

(Start: 80 @22263 has 128 MA's), (157, 22440), (162, 22461), (220, 22608), (247, 22749), (254, 22782), (260, 22815), (268, 22851), (301, 22944), (319, 23004), (324, 23022), (350, 23154), (364, 23199), (393, 23331), (399, 23376), (416, 23436), (442, 23550), (445, 23571), (453, 23610), (456, 23631), (458, 23646), (489, 23796), (491, 23802), (494, 23820), (508, 23874), (525, 23958), (547, 24051), (591, 24297), (626, 24513), (637, 24597), (643, 24630),

Gene: Murucutumbu_27 Start: 20831, Stop: 23263, Start Num: 88

Candidate Starts for Murucutumbu_27:

(Start: 88 @20831 has 96 MA's), (132, 20930), (218, 21191), (223, 21212), (272, 21452), (276, 21482), (277, 21485), (297, 21554), (303, 21578), (316, 21623), (346, 21776), (356, 21833), (360, 21842), (371, 21878), (375, 21893), (406, 22073), (410, 22088), (424, 22157), (440, 22232), (448, 22274), (456, 22313), (457, 22319), (458, 22328), (475, 22409), (501, 22526), (509, 22568), (527, 22640), (529, 22649), (534, 22670), (553, 22763), (565, 22859), (610, 23087), (626, 23234),

Gene: Mutaforma13_18 Start: 17444, Stop: 19981, Start Num: 43

Candidate Starts for Mutaforma13_18:

(35, 17432), (Start: 43 @17444 has 236 MA's), (52, 17465), (Start: 60 @17486 has 1 MA's), (74, 17522), (75, 17525), (109, 17594), (113, 17603), (115, 17606), (124, 17624), (138, 17657), (143, 17672), (160, 17720), (190, 17825), (194, 17831), (195, 17834), (208, 17864), (211, 17876), (212, 17879), (233, 17981), (246, 18047), (255, 18092), (260, 18122), (261, 18128), (263, 18146), (272, 18170), (274, 18179), (291, 18212), (293, 18218), (310, 18269), (315, 18287), (316, 18299), (319, 18308), (323, 18323), (325, 18329), (346, 18437), (348, 18449), (349, 18455), (352, 18470), (354, 18473), (362, 18494), (372, 18524), (375, 18536), (381, 18569), (393, 18635), (399, 18680), (400, 18683), (405, 18710), (407, 18716), (420, 18770), (421, 18773), (428, 18800), (445, 18875), (447, 18887), (448, 18890), (459, 18956), (464, 18980), (469, 19010), (478, 19052), (482, 19070), (483, 19073), (491, 19109), (494, 19127), (501, 19148), (507, 19175), (522, 19244), (525, 19262), (528, 19271), (530, 19283), (536, 19319), (549, 19370), (554, 19388), (559, 19430), (565, 19484), (581, 19586), (612, 19721), (616, 19745), (622, 19799), (626, 19847), (634, 19889), (636, 19913), (637, 19916),

Gene: Mwanjiwa_18 Start: 17382, Stop: 19919, Start Num: 43

Candidate Starts for Mwanjiwa_18:

(Start: 43 @17382 has 236 MA's), (52, 17403), (Start: 60 @17424 has 1 MA's), (75, 17463), (109, 17532), (113, 17541), (115, 17544), (124, 17562), (138, 17595), (143, 17610), (194, 17769), (195, 17772), (212, 17817), (229, 17895), (233, 17919), (246, 17985), (255, 18030), (260, 18060), (261, 18066), (263, 18084), (272, 18108), (274, 18117), (291, 18150), (293, 18156), (310, 18207), (315, 18225), (316, 18237), (319, 18246), (323, 18261), (346, 18375), (348, 18387), (349, 18393), (352, 18408), (354, 18411), (362, 18432), (372, 18462), (375, 18474), (381, 18507), (393, 18573), (399, 18618), (400, 18621), (405, 18648), (420, 18708), (421, 18711), (445, 18813), (447, 18825), (448, 18828), (459, 18894), (463, 18915), (464, 18918), (467, 18939), (469, 18948), (482, 19008), (483, 19011), (491, 19047), (494, 19065), (499, 19077), (501, 19086), (507, 19113), (522, 19182), (525, 19200), (528, 19209), (530, 19221), (536, 19257), (544, 19287), (549, 19308), (556, 19332), (559, 19368), (565, 19422), (581, 19524), (601, 19602), (612, 19659), (616, 19683), (622, 19737), (626, 19785), (634, 19827), (636, 19851), (637, 19854),

Gene: Mynx_27 Start: 20895, Stop: 23327, Start Num: 88

Candidate Starts for Mynx_27:

(Start: 88 @20895 has 96 MA's), (132, 20994), (218, 21255), (223, 21276), (263, 21483), (272, 21516), (276, 21546), (297, 21618), (303, 21642), (316, 21687), (346, 21840), (353, 21885), (356, 21897), (360, 21906), (375, 21957), (406, 22137), (410, 22152), (424, 22221), (428, 22233), (440, 22296), (448, 22338), (456, 22377), (457, 22383), (458, 22392), (462, 22413), (475, 22473), (501, 22590), (509, 22632), (527, 22704), (529, 22713), (534, 22734), (548, 22806), (553, 22827), (565, 22923), (576, 22986), (610, 23151), (626, 23298),

Gene: Myrale_26 Start: 22154, Stop: 24550, Start Num: 80

Candidate Starts for Myrale_26:

(Start: 80 @22154 has 128 MA's), (157, 22331), (162, 22352), (220, 22499), (247, 22640), (254, 22673), (260, 22706), (268, 22742), (301, 22835), (319, 22895), (324, 22913), (341, 22994), (393, 23222), (399, 23267), (445, 23462), (446, 23468), (448, 23477), (456, 23522), (458, 23537), (491, 23693), (494, 23711), (497, 23720), (509, 23774), (525, 23849), (526, 23852), (564, 24062), (566, 24074), (591, 24188), (626, 24404), (637, 24488), (641, 24512), (643, 24521),

Gene: Nala_26 Start: 22310, Stop: 24706, Start Num: 80

Candidate Starts for Nala_26:

(Start: 80 @22310 has 128 MA's), (157, 22487), (162, 22508), (220, 22655), (247, 22796), (254, 22829), (260, 22862), (268, 22898), (301, 22991), (319, 23051), (324, 23069), (350, 23201), (364, 23246), (393, 23378), (399, 23423), (416, 23483), (442, 23597), (445, 23618), (453, 23657), (456, 23678), (458, 23693), (489, 23843), (491, 23849), (494, 23867), (508, 23921), (525, 24005), (547, 24098), (591, 24344), (626, 24560), (637, 24644), (643, 24677),

Gene: Nebkiss_22 Start: 19932, Stop: 22502, Start Num: 31

Candidate Starts for Nebkiss_22:

(Start: 31 @19932 has 2 MA's), (48, 19989), (61, 20022), (97, 20100), (98, 20103), (125, 20157), (127, 20169), (153, 20217), (163, 20262), (189, 20334), (195, 20355), (202, 20376), (211, 20397), (212, 20400), (222, 20445), (240, 20544), (252, 20589), (261, 20634), (274, 20685), (279, 20703), (319, 20808), (321, 20814), (323, 20823), (324, 20826), (330, 20853), (334, 20874), (341, 20907), (342, 20916), (346, 20937), (348, 20949), (352, 20970), (372, 21024), (375, 21036), (381, 21069), (394, 21144), (398, 21171), (426, 21294), (434, 21321), (439, 21345), (445, 21375), (450, 21399), (457, 21441), (458, 21450), (479, 21579), (485, 21606), (499, 21657), (523, 21768), (525, 21783), (577, 22074), (612, 22242), (616, 22266), (634, 22410), (637, 22437), (639, 22443), (640, 22446),

Gene: NelitzaMV_26 Start: 22353, Stop: 24749, Start Num: 80

Candidate Starts for NelitzaMV_26:

(Start: 80 @22353 has 128 MA's), (157, 22530), (162, 22551), (220, 22698), (247, 22839), (254, 22872), (260, 22905), (268, 22941), (301, 23034), (319, 23094), (324, 23112), (357, 23268), (364, 23289), (390, 23409), (393, 23421), (399, 23466), (445, 23661), (448, 23676), (456, 23721), (458, 23736), (491, 23892), (494, 23910), (497, 23919), (525, 24048), (526, 24051), (564, 24261), (566, 24273), (591, 24387), (626, 24603), (637, 24687), (641, 24711), (643, 24720),

Gene: NewHope4_19 Start: 17446, Stop: 19983, Start Num: 43

Candidate Starts for NewHope4_19:

(Start: 43 @17446 has 236 MA's), (52, 17467), (Start: 60 @17488 has 1 MA's), (74, 17524), (75, 17527), (109, 17596), (113, 17605), (115, 17608), (124, 17626), (138, 17659), (143, 17674), (160, 17722), (190, 17827), (194, 17833), (195, 17836), (211, 17878), (212, 17881), (233, 17983), (246, 18049), (255, 18094), (260, 18124), (261, 18130), (263, 18148), (272, 18172), (274, 18181), (291, 18214), (293, 18220), (310, 18271), (315, 18289), (316, 18301), (319, 18310), (323, 18325), (325, 18331), (346, 18439), (348, 18451), (349, 18457), (352, 18472), (354, 18475), (362, 18496), (372, 18526), (375, 18538), (381, 18571), (393, 18637), (399, 18682), (400, 18685), (405, 18712), (407, 18718), (420, 18772), (421, 18775), (443, 18862), (445, 18877), (447, 18889), (448, 18892), (459, 18958), (467, 19003), (469, 19012), (482, 19072), (483, 19075), (491, 19111), (494, 19129), (499, 19141), (501, 19150), (507, 19177), (522, 19246), (525, 19264), (528, 19273), (530, 19285), (536, 19321), (544, 19351), (549, 19372), (556, 19396), (559, 19432), (565, 19486), (576, 19546), (581, 19588), (601, 19666), (612, 19723), (616, 19747), (622, 19801), (626, 19849), (634, 19891), (636, 19915), (637, 19918),

Gene: Nibb_26 Start: 20138, Stop: 22591, Start Num: 88

Candidate Starts for Nibb_26:

(Start: 88 @20138 has 96 MA's), (159, 20309), (180, 20366), (185, 20378), (216, 20495), (223, 20519), (228, 20546), (253, 20675), (261, 20708), (283, 20819), (285, 20828), (286, 20837), (290, 20858), (303, 20906), (329, 21008), (358, 21167), (379, 21248), (397, 21350), (436, 21542), (440, 21563), (448, 21605), (456, 21650), (458, 21665), (496, 21848), (509, 21905), (517, 21938), (534, 22007), (537, 22031), (550, 22088), (554, 22103), (562, 22181), (592, 22328), (595, 22337),

Gene: Nibley_31 Start: 26436, Stop: 28931, Start Num: 43

Candidate Starts for Nibley_31:

(Start: 43 @26436 has 236 MA's), (124, 26631), (138, 26667), (143, 26682), (179, 26769), (184, 26784), (195, 26820), (197, 26826), (212, 26859), (215, 26871), (252, 27042), (255, 27051), (260, 27075), (273, 27129), (291, 27165), (293, 27171), (301, 27201), (312, 27231), (316, 27252), (319, 27261), (323, 27276), (338, 27345), (354, 27426), (357, 27435), (364, 27456), (365, 27459), (375, 27489), (382, 27525), (390, 27576), (391, 27585), (393, 27588), (397, 27615), (398, 27624), (401, 27645), (420, 27723), (421, 27726), (439, 27798), (446, 27834), (447, 27840), (455, 27882), (456, 27888), (463, 27930), (464, 27933), (467, 27954), (468, 27960), (469, 27963), (476, 27993), (506, 28134), (508, 28143), (509, 28152), (517, 28185), (522, 28209), (523, 28212), (525, 28227), (530, 28248), (536, 28284), (538, 28290), (540, 28296), (545, 28317), (552, 28344), (569, 28479), (580, 28551), (582, 28557), (591, 28575), (612, 28674), (626, 28791), (638, 28872), (640, 28875), (643, 28902),

Gene: Nichirin_18 Start: 17599, Stop: 20136, Start Num: 43

Candidate Starts for Nichirin_18:

(Start: 43 @17599 has 236 MA's), (52, 17620), (Start: 60 @17641 has 1 MA's), (75, 17680), (109, 17749), (113, 17758), (115, 17761), (124, 17779), (143, 17827), (194, 17986), (195, 17989), (212, 18034), (229, 18112), (232, 18133), (233, 18136), (246, 18202), (260, 18277), (261, 18283), (272, 18325), (273, 18331), (274, 18334), (291, 18367), (293, 18373), (301, 18403), (310, 18424), (316, 18454), (319, 18463), (342, 18571), (345, 18583), (346, 18592), (347, 18595), (348, 18604), (349, 18610), (352, 18625), (354, 18628), (362, 18649), (375, 18691), (381, 18724), (405, 18865), (407, 18871), (420, 18925), (421, 18928), (428, 18955), (445, 19030), (447, 19042), (448, 19045), (459,

19111), (463, 19132), (464, 19135), (467, 19156), (478, 19207), (482, 19225), (483, 19228), (489, 19258), (494, 19282), (501, 19303), (507, 19330), (508, 19336), (522, 19399), (525, 19417), (528, 19426), (530, 19438), (536, 19474), (544, 19504), (549, 19525), (576, 19699), (581, 19741), (601, 19819), (612, 19876), (616, 19900), (617, 19915), (622, 19954), (626, 20002), (634, 20044), (636, 20068), (637, 20071),

Gene: NiebruSaylor_57 Start: 35525, Stop: 38035, Start Num: 57

Candidate Starts for NiebruSaylor_57:

(Start: 57 @35525 has 33 MA's), (69, 35558), (93, 35627), (95, 35630), (106, 35654), (115, 35678), (126, 35702), (138, 35735), (200, 35942), (203, 35954), (204, 35957), (237, 36104), (240, 36134), (246, 36158), (255, 36188), (256, 36191), (260, 36218), (263, 36242), (273, 36272), (296, 36329), (302, 36353), (315, 36389), (316, 36401), (323, 36425), (324, 36428), (332, 36470), (352, 36566), (354, 36569), (413, 36824), (445, 36968), (456, 37028), (466, 37100), (467, 37103), (488, 37199), (525, 37373), (530, 37394), (552, 37487), (555, 37499), (565, 37589), (579, 37664), (598, 37709), (630, 37910), (635, 37964), (640, 37979),

Gene: Nimbo_18 Start: 17400, Stop: 19937, Start Num: 43

Candidate Starts for Nimbo_18:

(Start: 43 @17400 has 236 MA's), (52, 17421), (Start: 60 @17442 has 1 MA's), (75, 17481), (109, 17550), (113, 17559), (115, 17562), (124, 17580), (143, 17628), (160, 17676), (194, 17787), (195, 17790), (212, 17835), (229, 17913), (233, 17937), (246, 18003), (260, 18078), (261, 18084), (263, 18102), (272, 18126), (274, 18135), (291, 18168), (293, 18174), (301, 18204), (310, 18225), (316, 18255), (319, 18264), (342, 18372), (345, 18384), (346, 18393), (347, 18396), (349, 18411), (352, 18426), (354, 18429), (362, 18450), (375, 18492), (381, 18525), (399, 18636), (400, 18639), (405, 18666), (407, 18672), (420, 18726), (421, 18729), (428, 18756), (445, 18831), (447, 18843), (448, 18846), (459, 18912), (463, 18933), (464, 18936), (467, 18957), (469, 18966), (478, 19008), (482, 19026), (483, 19029), (489, 19059), (494, 19083), (499, 19095), (501, 19104), (522, 19200), (525, 19218), (528, 19227), (530, 19239), (536, 19275), (544, 19305), (547, 19314), (549, 19326), (559, 19386), (565, 19440), (576, 19500), (581, 19542), (612, 19677), (616, 19701), (622, 19755), (626, 19803), (634, 19845), (636, 19869), (637, 19872),

Gene: Nimrod_26 Start: 22529, Stop: 24925, Start Num: 80

Candidate Starts for Nimrod_26:

(Start: 80 @22529 has 128 MA's), (157, 22706), (162, 22727), (220, 22874), (247, 23015), (254, 23048), (260, 23081), (268, 23117), (301, 23210), (319, 23270), (324, 23288), (350, 23420), (364, 23465), (393, 23597), (399, 23642), (416, 23702), (442, 23816), (445, 23837), (453, 23876), (456, 23897), (458, 23912), (489, 24062), (491, 24068), (494, 24086), (508, 24140), (525, 24224), (547, 24317), (591, 24563), (626, 24779), (637, 24863), (643, 24896),

Gene: Nitzel_19 Start: 18136, Stop: 20673, Start Num: 43

Candidate Starts for Nitzel_19:

(Start: 43 @18136 has 236 MA's), (52, 18157), (Start: 60 @18178 has 1 MA's), (75, 18217), (109, 18286), (113, 18295), (115, 18298), (124, 18316), (138, 18349), (143, 18364), (160, 18412), (190, 18517), (194, 18523), (195, 18526), (211, 18568), (212, 18571), (233, 18673), (246, 18739), (255, 18784), (260, 18814), (261, 18820), (263, 18838), (272, 18862), (274, 18871), (291, 18904), (293, 18910), (310, 18961), (315, 18979), (316, 18991), (319, 19000), (323, 19015), (325, 19021), (346, 19129), (348, 19141), (349, 19147), (352, 19162), (354, 19165), (362, 19186), (372, 19216), (375, 19228), (381, 19261), (393, 19327), (399, 19372), (400, 19375), (405, 19402), (407, 19408), (420, 19462), (421, 19465), (428, 19492), (445, 19567), (447, 19579), (448, 19582), (459, 19648), (464, 19672), (469, 19702), (478, 19744), (482, 19762), (483, 19765), (491, 19801), (494, 19819), (499, 19831), (501, 19840), (507, 19867), (522, 19936), (525, 19954), (528, 19963), (530, 19975), (536, 20011), (549, 20062), (554, 20080), (559, 20122), (565, 20176), (576, 20236), (581, 20278), (612, 20413), (616, 20437), (622, 20491), (626, 20539), (634, 20581), (636, 20605), (637, 20608),

Gene: Nivrat_18 Start: 17405, Stop: 19930, Start Num: 43

Candidate Starts for Nivrat_18:

(Start: 43 @17405 has 236 MA's), (75, 17486), (109, 17555), (113, 17564), (115, 17567), (124, 17585), (143, 17633), (159, 17678), (194, 17792), (195, 17795), (199, 17807), (210, 17828), (211, 17837), (212, 17840), (223, 17888), (229, 17918), (240, 17984), (247, 18017), (255, 18053), (259, 18077), (273, 18137), (274, 18140), (279, 18158), (308, 18221), (310, 18224), (315, 18242), (319, 18263), (324, 18281), (330, 18308), (334, 18329), (341, 18362), (349, 18410), (350, 18413), (352, 18425), (354, 18428), (363, 18455), (372, 18479), (381, 18524), (401, 18650), (407, 18674), (435, 18782), (445, 18833), (447, 18845), (448, 18848), (456, 18893), (458, 18908), (463, 18935), (467, 18959), (478, 19010), (482, 19028), (483, 19031), (484, 19043), (499, 19097), (508, 19139), (538, 19283), (552, 19337), (553, 19343), (554, 19346), (557, 19382), (558, 19385), (560, 19394), (561, 19421), (603, 19622), (626, 19793), (633, 19832), (639, 19871), (640, 19874),

Gene: NoShow_21 Start: 18882, Stop: 21146, Start Num: 122

Candidate Starts for NoShow_21:

(Start: 122 @18882 has 1 MA's), (167, 19005), (171, 19014), (197, 19098), (202, 19122), (204, 19131), (223, 19209), (242, 19311), (261, 19398), (289, 19488), (305, 19545), (313, 19563), (315, 19569), (317, 19584), (322, 19599), (325, 19608), (379, 19800), (398, 19908), (434, 20088), (438, 20109), (441, 20118), (451, 20175), (454, 20187), (458, 20217), (469, 20271), (478, 20304), (485, 20346), (490, 20364), (514, 20469), (522, 20499), (552, 20640), (555, 20652), (603, 20943), (626, 21126),

Gene: NoSleep_27 Start: 22023, Stop: 24419, Start Num: 80

Candidate Starts for NoSleep_27:

(Start: 80 @22023 has 128 MA's), (157, 22200), (162, 22221), (220, 22368), (254, 22542), (260, 22575), (268, 22611), (301, 22704), (319, 22764), (324, 22782), (350, 22914), (364, 22959), (393, 23091), (399, 23136), (416, 23196), (442, 23310), (445, 23331), (453, 23370), (456, 23391), (458, 23406), (489, 23556), (491, 23562), (494, 23580), (508, 23634), (525, 23718), (547, 23811), (591, 24057), (626, 24273), (637, 24357), (643, 24390),

Gene: NonchalantPear_26 Start: 21979, Stop: 24375, Start Num: 80

Candidate Starts for NonchalantPear_26:

(Start: 80 @21979 has 128 MA's), (157, 22156), (162, 22177), (220, 22324), (247, 22465), (254, 22498), (260, 22531), (268, 22567), (301, 22660), (319, 22720), (324, 22738), (350, 22870), (364, 22915), (393, 23047), (399, 23092), (416, 23152), (442, 23266), (445, 23287), (453, 23326), (456, 23347), (458, 23362), (489, 23512), (491, 23518), (494, 23536), (508, 23590), (525, 23674), (547, 23767), (591, 24013), (626, 24229), (637, 24313), (643, 24346),

Gene: NormanBulbieJr_18 Start: 17393, Stop: 19945, Start Num: 43

Candidate Starts for NormanBulbieJr_18:

(Start: 43 @17393 has 236 MA's), (75, 17474), (109, 17543), (113, 17552), (115, 17555), (124, 17573), (143, 17621), (159, 17666), (194, 17780), (195, 17783), (199, 17795), (209, 17816), (211, 17825), (212, 17828), (223, 17876), (229, 17906), (240, 17972), (247, 18005), (255, 18041), (259, 18065), (273, 18125), (274, 18128), (279, 18146), (308, 18209), (310, 18212), (315, 18230), (319, 18251), (324, 18269), (330, 18296), (334, 18317), (341, 18350), (348, 18392), (349, 18398), (350, 18401), (354, 18416), (363, 18443), (364, 18446), (372, 18467), (375, 18479), (381, 18512), (397, 18605), (420, 18713), (426, 18737), (428, 18743), (433, 18761), (434, 18764), (439, 18788), (445, 18818), (450, 18842), (456, 18878), (457, 18884), (458, 18893), (463, 18920), (473, 18983), (478, 19007), (479, 19022), (489, 19064), (502, 19115), (523, 19211), (525, 19226), (528, 19235), (533, 19259), (547, 19322), (556, 19358), (609, 19664), (616, 19709), (626, 19811),

Gene: NovoPizza_23 Start: 21830, Stop: 24478, Start Num: 17

Candidate Starts for NovoPizza_23:

(Start: 17 @21830 has 1 MA's), (34, 21926), (117, 22154), (128, 22187), (141, 22217), (146, 22226), (149, 22229), (170, 22304), (191, 22373), (196, 22388), (201, 22412), (214, 22463), (223, 22502), (238, 22571), (239, 22583), (245, 22616), (273, 22736), (315, 22850), (316, 22862), (330, 22916), (340, 22967), (346, 23000), (379, 23126), (390, 23186), (397, 23228), (403, 23267), (420, 23348), (423, 23363), (429, 23378), (438, 23435), (448, 23483), (452, 23504), (458, 23543), (469, 23603), (476, 23627), (478, 23636), (480, 23654), (482, 23660), (484, 23675), (485, 23678), (492, 23714), (520, 23810), (528, 23852), (546, 23942), (547, 23945), (554, 23975), (568, 24098), (573, 24119), (604, 24272), (628, 24470),

Gene: Oaker_29 Start: 25939, Stop: 28782, Start Num: 15

Candidate Starts for Oaker_29:

(Start: 15 @25939 has 8 MA's), (19, 26071), (21, 26083), (23, 26092), (38, 26161), (41, 26167), (65, 26227), (71, 26248), (89, 26296), (107, 26338), (118, 26362), (129, 26395), (145, 26431), (152, 26443), (178, 26536), (195, 26593), (207, 26632), (247, 26827), (253, 26857), (261, 26899), (274, 26950), (310, 27040), (315, 27058), (332, 27139), (341, 27178), (345, 27199), (381, 27337), (387, 27376), (398, 27439), (421, 27541), (466, 27766), (545, 28129), (552, 28156), (593, 28399), (599, 28432), (605, 28456), (621, 28576), (632, 28654), (643, 28741), (645, 28756), (646, 28762),

Gene: Ochi17_18 Start: 17634, Stop: 20171, Start Num: 43

Candidate Starts for Ochi17_18:

(Start: 43 @17634 has 236 MA's), (52, 17655), (Start: 60 @17676 has 1 MA's), (75, 17715), (109, 17784), (113, 17793), (115, 17796), (124, 17814), (143, 17862), (194, 18021), (195, 18024), (211, 18066), (212, 18069), (229, 18147), (232, 18168), (233, 18171), (246, 18237), (247, 18246), (255, 18282), (260, 18312), (261, 18318), (272, 18360), (273, 18366), (274, 18369), (291, 18402), (293, 18408), (301, 18438), (310, 18459), (316, 18489), (319, 18498), (342, 18606), (345, 18618), (346, 18627), (347, 18630), (348, 18639), (349, 18645), (352, 18660), (354, 18663), (362, 18684), (375, 18726), (381, 18759), (405, 18900), (407, 18906), (420, 18960), (421, 18963), (428, 18990), (445, 19065), (447, 19077), (448, 19080), (459, 19146), (463, 19167), (464, 19170), (467, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (499, 19329), (522, 19434), (525, 19452), (528, 19461), (530, 19473), (536, 19509), (544, 19539), (549, 19560), (556, 19584), (559, 19620), (576, 19734), (581, 19776), (601, 19854), (612, 19911), (616, 19935), (622, 19989), (626, 20037), (634, 20079), (636, 20103), (637, 20106),

Gene: OfUltron_18 Start: 17634, Stop: 20171, Start Num: 43

Candidate Starts for OfUltron_18:

(Start: 43 @17634 has 236 MA's), (52, 17655), (Start: 60 @17676 has 1 MA's), (75, 17715), (109, 17784), (113, 17793), (115, 17796), (124, 17814), (143, 17862), (194, 18021), (195, 18024), (211, 18066), (212, 18069), (229, 18147), (232, 18168), (233, 18171), (246, 18237), (247, 18246), (255, 18282), (260, 18312), (261, 18318), (272, 18360), (273, 18366), (274, 18369), (291, 18402), (293, 18408), (301, 18438), (310, 18459), (316, 18489), (319, 18498), (342, 18606), (345, 18618), (346, 18627), (347, 18630), (348, 18639), (349, 18645), (352, 18660), (354, 18663), (362, 18684), (375, 18726), (381, 18759), (405, 18900), (407, 18906), (420, 18960), (421, 18963), (428, 18990), (445, 19065), (447, 19077), (448, 19080), (459, 19146), (463, 19167), (464, 19170), (467, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (499, 19329), (522, 19434), (525, 19452), (528, 19461), (530, 19473), (536, 19509), (544, 19539), (549, 19560), (556, 19584), (559, 19620), (576, 19734), (581, 19776), (601, 19854), (612, 19911), (616, 19935), (622, 19989), (626, 20037), (634, 20079), (636, 20103), (637, 20106),

Gene: Ogopogo_21 Start: 17660, Stop: 20149, Start Num: 43

Candidate Starts for Ogopogo_21:

(Start: 43 @17660 has 236 MA's), (52, 17681), (Start: 60 @17702 has 1 MA's), (77, 17741), (109, 17810), (113, 17819), (115, 17822), (124, 17840), (143, 17888), (160, 17936), (184, 17990), (195, 18026), (197, 18032), (198, 18035), (210, 18053), (215, 18077), (222, 18101), (235, 18164), (252,

18248), (255, 18257), (260, 18281), (263, 18305), (272, 18329), (273, 18335), (279, 18356), (293, 18377), (301, 18407), (312, 18437), (316, 18458), (338, 18551), (341, 18566), (342, 18575), (346, 18596), (347, 18599), (372, 18683), (373, 18686), (375, 18695), (380, 18722), (382, 18731), (388, 18770), (391, 18791), (393, 18794), (398, 18830), (401, 18851), (420, 18929), (421, 18932), (436, 18986), (447, 19046), (464, 19139), (466, 19157), (467, 19160), (476, 19196), (487, 19250), (489, 19259), (506, 19337), (509, 19355), (518, 19391), (519, 19394), (522, 19412), (523, 19415), (525, 19430), (530, 19451), (536, 19487), (540, 19499), (556, 19562), (559, 19595), (569, 19682), (578, 19730), (580, 19754), (587, 19781), (591, 19790), (600, 19829), (608, 19868), (612, 19892), (615, 19913), (626, 20009), (631, 20030), (640, 20093), (643, 20120), (644, 20129),

Gene: Oksu_19 Start: 17479, Stop: 20016, Start Num: 43

Candidate Starts for Oksu_19:

(Start: 43 @17479 has 236 MA's), (52, 17500), (Start: 60 @17521 has 1 MA's), (75, 17560), (109, 17629), (113, 17638), (115, 17641), (124, 17659), (143, 17707), (190, 17860), (195, 17869), (212, 17914), (232, 18013), (233, 18016), (246, 18082), (260, 18157), (261, 18163), (263, 18181), (272, 18205), (273, 18211), (274, 18214), (291, 18247), (293, 18253), (301, 18283), (310, 18304), (316, 18334), (319, 18343), (323, 18358), (324, 18361), (346, 18472), (347, 18475), (348, 18484), (349, 18490), (352, 18505), (354, 18508), (362, 18529), (375, 18571), (381, 18604), (405, 18745), (407, 18751), (420, 18805), (421, 18808), (428, 18835), (445, 18910), (447, 18922), (448, 18925), (459, 18991), (463, 19012), (464, 19015), (467, 19036), (478, 19087), (482, 19105), (483, 19108), (489, 19138), (494, 19162), (499, 19174), (522, 19279), (525, 19297), (528, 19306), (530, 19318), (536, 19354), (544, 19384), (549, 19405), (556, 19429), (559, 19465), (576, 19579), (581, 19621), (601, 19699), (612, 19756), (616, 19780), (622, 19834), (626, 19882), (634, 19924), (636, 19948), (637, 19951),

Gene: OldBen_18 Start: 17370, Stop: 19907, Start Num: 43

Candidate Starts for OldBen_18:

(35, 17358), (Start: 43 @17370 has 236 MA's), (52, 17391), (Start: 60 @17412 has 1 MA's), (75, 17451), (109, 17520), (113, 17529), (115, 17532), (124, 17550), (143, 17598), (160, 17646), (194, 17757), (195, 17760), (212, 17805), (229, 17883), (233, 17907), (246, 17973), (255, 18018), (260, 18048), (261, 18054), (263, 18072), (272, 18096), (274, 18105), (291, 18138), (293, 18144), (301, 18174), (315, 18213), (316, 18225), (319, 18234), (323, 18249), (324, 18252), (346, 18363), (347, 18366), (348, 18375), (349, 18381), (352, 18396), (354, 18399), (362, 18420), (372, 18450), (375, 18462), (381, 18495), (399, 18606), (400, 18609), (405, 18636), (407, 18642), (420, 18696), (421, 18699), (445, 18801), (447, 18813), (448, 18816), (459, 18882), (464, 18906), (467, 18927), (469, 18936), (482, 18996), (483, 18999), (491, 19035), (494, 19053), (501, 19074), (507, 19101), (522, 19170), (525, 19188), (528, 19197), (530, 19209), (536, 19245), (549, 19296), (554, 19314), (559, 19356), (565, 19410), (581, 19512), (612, 19647), (616, 19671), (622, 19725), (631, 19794), (636, 19839), (637, 19842),

Gene: OlympiaSaint_18 Start: 17593, Stop: 20145, Start Num: 43

Candidate Starts for OlympiaSaint_18:

(Start: 43 @17593 has 236 MA's), (75, 17674), (109, 17743), (113, 17752), (115, 17755), (124, 17773), (143, 17821), (159, 17866), (194, 17980), (195, 17983), (199, 17995), (209, 18016), (211, 18025), (212, 18028), (223, 18076), (229, 18106), (240, 18172), (247, 18205), (255, 18241), (259, 18265), (273, 18325), (274, 18328), (279, 18346), (308, 18409), (310, 18412), (315, 18430), (319, 18451), (324, 18469), (330, 18496), (334, 18517), (341, 18550), (348, 18592), (349, 18598), (350, 18601), (354, 18616), (363, 18643), (364, 18646), (372, 18667), (375, 18679), (381, 18712), (397, 18805), (420, 18913), (426, 18937), (428, 18943), (433, 18961), (434, 18964), (439, 18988), (445, 19018), (450, 19042), (456, 19078), (457, 19084), (458, 19093), (463, 19120), (473, 19183), (478, 19207), (479, 19222), (489, 19264), (502, 19315), (523, 19411), (525, 19426), (528, 19435), (533, 19459), (547, 19522), (556, 19558), (609, 19864), (616, 19909), (626, 20011),

Gene: Omega_38 Start: 31431, Stop: 33986, Start Num: 43

Candidate Starts for Omega_38:

(Start: 43 @31431 has 236 MA's), (124, 31626), (138, 31662), (143, 31677), (160, 31725), (194, 31836), (195, 31839), (208, 31869), (212, 31884), (229, 31962), (233, 31986), (246, 32052), (255, 32097), (260, 32127), (261, 32133), (263, 32151), (272, 32175), (274, 32184), (291, 32217), (293, 32223), (301, 32253), (315, 32292), (316, 32304), (319, 32313), (323, 32328), (324, 32331), (346, 32442), (347, 32445), (348, 32454), (349, 32460), (352, 32475), (354, 32478), (362, 32499), (372, 32529), (375, 32541), (381, 32574), (393, 32640), (399, 32685), (400, 32688), (405, 32715), (407, 32721), (420, 32775), (421, 32778), (443, 32865), (445, 32880), (447, 32892), (448, 32895), (459, 32961), (467, 33006), (469, 33015), (482, 33075), (483, 33078), (491, 33114), (494, 33132), (499, 33144), (501, 33153), (507, 33180), (522, 33249), (525, 33267), (528, 33276), (530, 33288), (536, 33324), (544, 33354), (549, 33375), (556, 33399), (559, 33435), (565, 33489), (576, 33549), (581, 33591), (612, 33726), (616, 33750), (622, 33804), (626, 33852), (634, 33894), (636, 33918), (637, 33921),

Gene: Optimus_37 Start: 30775, Stop: 33330, Start Num: 43

Candidate Starts for Optimus_37:

(28, 30718), (Start: 43 @30775 has 236 MA's), (124, 30970), (138, 31006), (143, 31021), (160, 31069), (190, 31174), (195, 31183), (212, 31228), (232, 31327), (233, 31330), (246, 31396), (260, 31471), (261, 31477), (263, 31495), (272, 31519), (274, 31528), (291, 31561), (293, 31567), (301, 31597), (315, 31636), (316, 31648), (319, 31657), (346, 31786), (347, 31789), (348, 31798), (349, 31804), (352, 31819), (354, 31822), (362, 31843), (372, 31873), (375, 31885), (381, 31918), (399, 32029), (400, 32032), (405, 32059), (407, 32065), (420, 32119), (421, 32122), (445, 32224), (447, 32236), (448, 32239), (459, 32305), (464, 32329), (467, 32350), (478, 32401), (482, 32419), (483, 32422), (489, 32452), (494, 32476), (499, 32488), (501, 32497), (522, 32593), (525, 32611), (528, 32620), (530, 32632), (544, 32698), (547, 32707), (549, 32719), (559, 32779), (581, 32935), (612, 33070), (616, 33094), (622, 33148), (631, 33217), (636, 33262), (637, 33265),

Gene: OrionPax_27 Start: 22029, Stop: 24425, Start Num: 80

Candidate Starts for OrionPax_27:

(Start: 80 @22029 has 128 MA's), (157, 22206), (162, 22227), (220, 22374), (254, 22548), (260, 22581), (268, 22617), (301, 22710), (319, 22770), (324, 22788), (350, 22920), (364, 22965), (393, 23097), (399, 23142), (416, 23202), (442, 23316), (445, 23337), (453, 23376), (456, 23397), (458, 23412), (489, 23562), (491, 23568), (494, 23586), (508, 23640), (525, 23724), (547, 23817), (591, 24063), (626, 24279), (637, 24363), (643, 24396),

Gene: Oscar_26 Start: 20113, Stop: 22572, Start Num: 88

Candidate Starts for Oscar_26:

(Start: 88 @20113 has 96 MA's), (109, 20161), (159, 20284), (180, 20341), (185, 20353), (212, 20446), (216, 20470), (228, 20521), (261, 20683), (283, 20794), (290, 20833), (297, 20857), (329, 20980), (342, 21052), (358, 21139), (376, 21205), (379, 21220), (397, 21322), (406, 21376), (419, 21436), (436, 21514), (437, 21526), (440, 21535), (448, 21577), (456, 21622), (458, 21637), (477, 21724), (481, 21748), (496, 21820), (509, 21877), (534, 21988), (537, 22012), (543, 22033), (554, 22084), (570, 22213), (595, 22318), (626, 22543),

Gene: Ovechkin_18 Start: 17427, Stop: 19964, Start Num: 43

Candidate Starts for Ovechkin_18:

(Start: 43 @17427 has 236 MA's), (52, 17448), (Start: 60 @17469 has 1 MA's), (74, 17505), (75, 17508), (109, 17577), (113, 17586), (115, 17589), (124, 17607), (138, 17640), (143, 17655), (160, 17703), (194, 17814), (195, 17817), (208, 17847), (211, 17859), (212, 17862), (229, 17940), (233, 17964), (246, 18030), (255, 18075), (260, 18105), (261, 18111), (263, 18129), (272, 18153), (274, 18162), (291, 18195), (293, 18201), (301, 18231), (315, 18270), (316, 18282), (319, 18291), (323, 18306), (324, 18309), (346, 18420), (347, 18423), (348, 18432), (349, 18438), (352, 18453), (354,

18456), (362, 18477), (372, 18507), (375, 18519), (381, 18552), (399, 18663), (400, 18666), (405, 18693), (407, 18699), (420, 18753), (421, 18756), (445, 18858), (447, 18870), (448, 18873), (459, 18939), (464, 18963), (467, 18984), (469, 18993), (482, 19053), (483, 19056), (491, 19092), (494, 19110), (499, 19122), (501, 19131), (507, 19158), (522, 19227), (525, 19245), (528, 19254), (530, 19266), (536, 19302), (544, 19332), (549, 19353), (556, 19377), (559, 19413), (565, 19467), (576, 19527), (581, 19569), (601, 19647), (612, 19704), (616, 19728), (622, 19782), (626, 19830), (634, 19872), (636, 19896), (637, 19899),

Gene: OwlsT2W_20 Start: 17765, Stop: 20317, Start Num: 43

Candidate Starts for OwlsT2W_20:

(Start: 43 @17765 has 236 MA's), (83, 17855), (109, 17915), (113, 17924), (115, 17927), (124, 17945), (143, 17993), (159, 18038), (194, 18152), (195, 18155), (199, 18167), (209, 18188), (211, 18197), (212, 18200), (229, 18278), (240, 18344), (247, 18377), (255, 18413), (259, 18437), (273, 18497), (274, 18500), (279, 18518), (308, 18581), (310, 18584), (315, 18602), (319, 18623), (324, 18641), (330, 18668), (334, 18689), (341, 18722), (348, 18764), (349, 18770), (350, 18773), (354, 18788), (363, 18815), (364, 18818), (372, 18839), (375, 18851), (381, 18884), (397, 18977), (420, 19085), (426, 19109), (428, 19115), (433, 19133), (434, 19136), (439, 19160), (445, 19190), (450, 19214), (456, 19250), (457, 19256), (458, 19265), (463, 19292), (473, 19355), (478, 19379), (479, 19394), (489, 19436), (502, 19487), (523, 19583), (525, 19598), (528, 19607), (533, 19631), (547, 19694), (556, 19730), (609, 20036), (616, 20081), (626, 20183),

Gene: PHappiness_18 Start: 17378, Stop: 19915, Start Num: 43

Candidate Starts for PHappiness_18:

(35, 17366), (Start: 43 @17378 has 236 MA's), (52, 17399), (Start: 60 @17420 has 1 MA's), (75, 17459), (109, 17528), (113, 17537), (115, 17540), (124, 17558), (143, 17606), (160, 17654), (194, 17765), (195, 17768), (212, 17813), (229, 17891), (233, 17915), (246, 17981), (255, 18026), (260, 18056), (261, 18062), (263, 18080), (272, 18104), (274, 18113), (291, 18146), (293, 18152), (301, 18182), (315, 18221), (316, 18233), (319, 18242), (323, 18257), (324, 18260), (346, 18371), (347, 18374), (348, 18383), (349, 18389), (352, 18404), (354, 18407), (362, 18428), (372, 18458), (375, 18470), (381, 18503), (399, 18614), (400, 18617), (405, 18644), (407, 18650), (420, 18704), (421, 18707), (445, 18809), (447, 18821), (448, 18824), (459, 18890), (464, 18914), (467, 18935), (469, 18944), (482, 19004), (483, 19007), (491, 19043), (494, 19061), (501, 19082), (507, 19109), (522, 19178), (525, 19196), (528, 19205), (530, 19217), (536, 19253), (549, 19304), (554, 19322), (559, 19364), (565, 19418), (581, 19520), (612, 19655), (616, 19679), (622, 19733), (631, 19802), (636, 19847), (637, 19850),

Gene: PMC_18 Start: 17383, Stop: 19920, Start Num: 43

Candidate Starts for PMC_18:

(Start: 43 @17383 has 236 MA's), (83, 17473), (109, 17533), (113, 17542), (115, 17545), (124, 17563), (143, 17611), (160, 17659), (190, 17764), (194, 17770), (195, 17773), (211, 17815), (212, 17818), (233, 17920), (246, 17986), (255, 18031), (260, 18061), (261, 18067), (263, 18085), (272, 18109), (274, 18118), (291, 18151), (293, 18157), (310, 18208), (315, 18226), (316, 18238), (319, 18247), (323, 18262), (325, 18268), (346, 18376), (348, 18388), (349, 18394), (352, 18409), (354, 18412), (362, 18433), (372, 18463), (375, 18475), (381, 18508), (393, 18574), (399, 18619), (400, 18622), (405, 18649), (407, 18655), (420, 18709), (421, 18712), (428, 18739), (445, 18814), (447, 18826), (448, 18829), (459, 18895), (463, 18916), (464, 18919), (469, 18949), (478, 18991), (482, 19009), (483, 19012), (489, 19042), (494, 19066), (499, 19078), (501, 19087), (522, 19183), (525, 19201), (528, 19210), (530, 19222), (544, 19288), (547, 19297), (549, 19309), (559, 19369), (581, 19525), (612, 19660), (616, 19684), (622, 19738), (631, 19807), (636, 19852), (637, 19855),

Gene: Pacc40_18 Start: 17568, Stop: 20105, Start Num: 43

Candidate Starts for Pacc40_18:

(35, 17556), (Start: 43 @17568 has 236 MA's), (52, 17589), (Start: 60 @17610 has 1 MA's), (75, 17649), (109, 17718), (113, 17727), (115, 17730), (124, 17748), (143, 17796), (160, 17844), (194, 17955), (195, 17958), (212, 18003), (229, 18081), (233, 18105), (246, 18171), (255, 18216), (260, 18246), (261, 18252), (263, 18270), (272, 18294), (274, 18303), (291, 18336), (293, 18342), (301, 18372), (315, 18411), (316, 18423), (319, 18432), (323, 18447), (324, 18450), (346, 18561), (347, 18564), (348, 18573), (349, 18579), (352, 18594), (354, 18597), (362, 18618), (372, 18648), (375, 18660), (381, 18693), (399, 18804), (400, 18807), (405, 18834), (407, 18840), (420, 18894), (421, 18897), (445, 18999), (447, 19011), (448, 19014), (459, 19080), (464, 19104), (467, 19125), (469, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (501, 19272), (507, 19299), (522, 19368), (525, 19386), (528, 19395), (530, 19407), (536, 19443), (549, 19494), (554, 19512), (559, 19554), (565, 19608), (581, 19710), (612, 19845), (616, 19869), (622, 19923), (631, 19992), (636, 20037), (637, 20040),

Gene: Pace1224_22 Start: 20643, Stop: 23102, Start Num: 39

Candidate Starts for Pace1224_22:

(Start: 39 @20643 has 9 MA's), (64, 20703), (77, 20751), (166, 20946), (243, 21234), (264, 21336), (272, 21360), (320, 21504), (324, 21519), (341, 21600), (355, 21675), (375, 21732), (379, 21756), (386, 21792), (420, 21978), (425, 21999), (436, 22047), (438, 22062), (451, 22128), (458, 22170), (478, 22263), (480, 22281), (494, 22347), (510, 22428), (531, 22494), (559, 22647), (570, 22737), (581, 22806), (591, 22842), (611, 22935), (623, 23040), (625, 23076),

Gene: PaddyBaddy_27 Start: 22039, Stop: 24435, Start Num: 80

Candidate Starts for PaddyBaddy_27:

(Start: 80 @22039 has 128 MA's), (157, 22216), (162, 22237), (220, 22384), (254, 22558), (260, 22591), (268, 22627), (301, 22720), (319, 22780), (324, 22798), (350, 22930), (364, 22975), (393, 23107), (399, 23152), (416, 23212), (442, 23326), (445, 23347), (453, 23386), (456, 23407), (458, 23422), (489, 23572), (491, 23578), (494, 23596), (508, 23650), (525, 23734), (547, 23827), (591, 24073), (626, 24289), (637, 24373), (643, 24406),

Gene: Padfoot_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Padfoot_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Padpat_27 Start: 20872, Stop: 23304, Start Num: 88

Candidate Starts for Padpat_27:

(Start: 88 @20872 has 96 MA's), (132, 20971), (218, 21232), (223, 21253), (263, 21460), (272, 21493), (276, 21523), (297, 21595), (303, 21619), (316, 21664), (346, 21817), (353, 21862), (356, 21874), (360, 21883), (375, 21934), (406, 22114), (410, 22129), (424, 22198), (428, 22210), (440, 22273), (448, 22315), (456, 22354), (457, 22360), (458, 22369), (462, 22390), (475, 22450), (501, 22567), (509, 22609), (527, 22681), (529, 22690), (534, 22711), (548, 22783), (553, 22804), (565, 22900), (576, 22963), (610, 23128), (626, 23275),

Gene: PaintedDog_20 Start: 18529, Stop: 21066, Start Num: 54

Candidate Starts for PaintedDog_20:

(13, 18220), (Start: 54 @18529 has 2 MA's), (62, 18553), (Start: 86 @18634 has 1 MA's), (99, 18664), (104, 18673), (115, 18700), (119, 18709), (188, 18919), (200, 18964), (203, 18976), (204, 18979), (232, 19114), (240, 19159), (246, 19183), (251, 19201), (259, 19237), (260, 19243), (272, 19291), (293, 19342), (295, 19351), (315, 19414), (323, 19450), (324, 19453), (325, 19456), (354, 19594),

(380, 19681), (381, 19687), (399, 19798), (445, 19993), (456, 20053), (466, 20125), (467, 20128), (469, 20137), (525, 20398), (547, 20491), (553, 20518), (555, 20524), (576, 20671), (579, 20692), (635, 20992),

Gene: Palpatine_26 Start: 22301, Stop: 24697, Start Num: 80

Candidate Starts for Palpatine_26:

(Start: 80 @22301 has 128 MA's), (157, 22478), (162, 22499), (220, 22646), (247, 22787), (254, 22820), (260, 22853), (268, 22889), (301, 22982), (319, 23042), (324, 23060), (350, 23192), (364, 23237), (393, 23369), (399, 23414), (416, 23474), (442, 23588), (445, 23609), (453, 23648), (456, 23669), (458, 23684), (489, 23834), (491, 23840), (494, 23858), (508, 23912), (525, 23996), (547, 24089), (591, 24335), (626, 24551), (637, 24635), (643, 24668),

Gene: Paperbeatsrock_28 Start: 23264, Stop: 25660, Start Num: 80

Candidate Starts for Paperbeatsrock_28:

(Start: 80 @23264 has 128 MA's), (157, 23441), (162, 23462), (220, 23609), (247, 23750), (254, 23783), (260, 23816), (268, 23852), (301, 23945), (319, 24005), (324, 24023), (350, 24155), (364, 24200), (393, 24332), (399, 24377), (416, 24437), (442, 24551), (445, 24572), (453, 24611), (456, 24632), (458, 24647), (489, 24797), (491, 24803), (494, 24821), (508, 24875), (525, 24959), (547, 25052), (591, 25298), (626, 25514), (637, 25598), (643, 25631),

Gene: Pat3_25 Start: 21010, Stop: 23406, Start Num: 80

Candidate Starts for Pat3_25:

(Start: 80 @21010 has 128 MA's), (157, 21187), (162, 21208), (220, 21355), (247, 21496), (254, 21529), (260, 21562), (268, 21598), (301, 21691), (319, 21751), (324, 21769), (350, 21901), (364, 21946), (393, 22078), (399, 22123), (442, 22297), (445, 22318), (453, 22357), (456, 22378), (458, 22393), (491, 22549), (494, 22567), (508, 22621), (525, 22705), (583, 23029), (626, 23260), (637, 23344), (643, 23377),

Gene: PatoPoderoso_18 Start: 17437, Stop: 19974, Start Num: 43

Candidate Starts for PatoPoderoso_18:

(35, 17425), (Start: 43 @17437 has 236 MA's), (52, 17458), (Start: 60 @17479 has 1 MA's), (75, 17518), (109, 17587), (113, 17596), (115, 17599), (124, 17617), (138, 17650), (143, 17665), (160, 17713), (194, 17824), (195, 17827), (208, 17857), (211, 17869), (212, 17872), (229, 17950), (233, 17974), (246, 18040), (255, 18085), (260, 18115), (261, 18121), (263, 18139), (272, 18163), (274, 18172), (291, 18205), (293, 18211), (301, 18241), (315, 18280), (316, 18292), (319, 18301), (323, 18316), (324, 18319), (346, 18430), (347, 18433), (348, 18442), (349, 18448), (352, 18463), (354, 18466), (362, 18487), (372, 18517), (375, 18529), (381, 18562), (399, 18673), (400, 18676), (405, 18703), (407, 18709), (420, 18763), (421, 18766), (443, 18853), (445, 18868), (447, 18880), (448, 18883), (459, 18949), (464, 18973), (467, 18994), (469, 19003), (482, 19063), (483, 19066), (491, 19102), (494, 19120), (499, 19132), (501, 19141), (507, 19168), (522, 19237), (525, 19255), (528, 19264), (530, 19276), (536, 19312), (544, 19342), (549, 19363), (556, 19387), (559, 19423), (565, 19477), (576, 19537), (581, 19579), (601, 19657), (612, 19714), (616, 19738), (622, 19792), (626, 19840), (634, 19882), (636, 19906), (637, 19909),

Gene: Peel_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Peel_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Peridot_20 Start: 17209, Stop: 19746, Start Num: 43

Candidate Starts for Peridot_20:

(35, 17197), (Start: 43 @17209 has 236 MA's), (52, 17230), (Start: 60 @17251 has 1 MA's), (75, 17290), (113, 17368), (115, 17371), (124, 17389), (138, 17422), (143, 17437), (160, 17485), (194, 17596), (195, 17599), (212, 17644), (229, 17722), (246, 17812), (260, 17887), (261, 17893), (263, 17911), (272, 17935), (273, 17941), (274, 17944), (291, 17977), (293, 17983), (301, 18013), (310, 18034), (316, 18064), (319, 18073), (323, 18088), (324, 18091), (346, 18202), (347, 18205), (348, 18214), (349, 18220), (352, 18235), (354, 18238), (362, 18259), (372, 18289), (375, 18301), (381, 18334), (399, 18445), (400, 18448), (405, 18475), (407, 18481), (420, 18535), (421, 18538), (445, 18640), (447, 18652), (448, 18655), (459, 18721), (464, 18745), (467, 18766), (469, 18775), (482, 18835), (483, 18838), (491, 18874), (494, 18892), (499, 18904), (501, 18913), (507, 18940), (521, 18997), (522, 19009), (525, 19027), (528, 19036), (530, 19048), (536, 19084), (544, 19114), (547, 19123), (549, 19135), (559, 19195), (565, 19249), (576, 19309), (581, 19351), (612, 19486), (616, 19510), (622, 19564), (626, 19612), (634, 19654), (636, 19678), (637, 19681),

Gene: Petra64142_28 Start: 22744, Stop: 25140, Start Num: 80

Candidate Starts for Petra64142_28:

(Start: 80 @22744 has 128 MA's), (157, 22921), (162, 22942), (220, 23089), (247, 23230), (254, 23263), (260, 23296), (268, 23332), (301, 23425), (319, 23485), (324, 23503), (350, 23635), (364, 23680), (393, 23812), (399, 23857), (416, 23917), (442, 24031), (445, 24052), (453, 24091), (456, 24112), (458, 24127), (489, 24277), (491, 24283), (494, 24301), (508, 24355), (525, 24439), (547, 24532), (591, 24778), (626, 24994), (637, 25078), (643, 25111),

Gene: Phaja_26 Start: 22460, Stop: 24856, Start Num: 80

Candidate Starts for Phaja_26:

(Start: 80 @22460 has 128 MA's), (157, 22637), (162, 22658), (220, 22805), (247, 22946), (254, 22979), (260, 23012), (268, 23048), (301, 23141), (319, 23201), (324, 23219), (357, 23375), (364, 23396), (390, 23516), (393, 23528), (399, 23573), (445, 23768), (446, 23774), (448, 23783), (456, 23828), (458, 23843), (491, 23999), (494, 24017), (497, 24026), (509, 24080), (525, 24155), (526, 24158), (564, 24368), (566, 24380), (591, 24494), (626, 24710), (637, 24794), (641, 24818), (643, 24827),

Gene: Phalconet_18 Start: 17448, Stop: 19979, Start Num: 43

Candidate Starts for Phalconet_18:

(35, 17436), (Start: 43 @17448 has 236 MA's), (52, 17469), (Start: 60 @17490 has 1 MA's), (75, 17529), (109, 17598), (113, 17607), (115, 17610), (138, 17661), (143, 17676), (160, 17718), (194, 17829), (195, 17832), (208, 17862), (212, 17877), (229, 17955), (246, 18045), (255, 18090), (260, 18120), (261, 18126), (263, 18144), (272, 18168), (274, 18177), (291, 18210), (293, 18216), (301, 18246), (315, 18285), (316, 18297), (319, 18306), (323, 18321), (324, 18324), (346, 18435), (347, 18438), (348, 18447), (349, 18453), (352, 18468), (354, 18471), (362, 18492), (372, 18522), (375, 18534), (381, 18567), (393, 18633), (399, 18678), (400, 18681), (405, 18708), (407, 18714), (420, 18768), (421, 18771), (443, 18858), (445, 18873), (447, 18885), (448, 18888), (459, 18954), (467, 18999), (469, 19008), (482, 19068), (483, 19071), (491, 19107), (494, 19125), (499, 19137), (501, 19146), (507, 19173), (522, 19242), (525, 19260), (528, 19269), (530, 19281), (536, 19317), (544, 19347), (549, 19368), (556, 19392), (559, 19428), (565, 19482), (576, 19542), (581, 19584), (601, 19662), (612, 19719), (616, 19743), (622, 19797), (626, 19845), (634, 19887), (636, 19911), (637, 19914),

Gene: Phanphagia_18 Start: 17450, Stop: 19927, Start Num: 43

Candidate Starts for Phanphagia_18:

(36, 17438), (Start: 43 @17450 has 236 MA's), (52, 17471), (Start: 60 @17492 has 1 MA's), (77, 17531), (109, 17600), (113, 17609), (115, 17612), (124, 17630), (138, 17663), (143, 17678), (179, 17765), (184, 17780), (195, 17816), (197, 17822), (212, 17855), (215, 17867), (252, 18038), (255,

18047), (260, 18071), (273, 18125), (291, 18161), (293, 18167), (301, 18197), (312, 18227), (316, 18248), (319, 18257), (338, 18341), (349, 18404), (354, 18422), (357, 18431), (364, 18452), (365, 18455), (372, 18473), (375, 18485), (380, 18512), (382, 18521), (390, 18572), (391, 18581), (393, 18584), (397, 18611), (398, 18620), (401, 18641), (420, 18719), (421, 18722), (446, 18830), (447, 18836), (456, 18884), (463, 18926), (464, 18929), (467, 18950), (468, 18956), (469, 18959), (476, 18989), (506, 19130), (509, 19148), (517, 19181), (522, 19205), (523, 19208), (525, 19223), (530, 19244), (536, 19280), (538, 19286), (545, 19313), (552, 19340), (569, 19475), (578, 19523), (580, 19547), (582, 19553), (591, 19571), (612, 19670), (615, 19691), (617, 19709), (626, 19787), (631, 19808), (640, 19871), (641, 19889), (644, 19907),

Gene: Pharsalus_27 Start: 23064, Stop: 25460, Start Num: 80

Candidate Starts for Pharsalus_27:

(Start: 80 @23064 has 128 MA's), (157, 23241), (162, 23262), (220, 23409), (247, 23550), (254, 23583), (260, 23616), (268, 23652), (301, 23745), (319, 23805), (324, 23823), (350, 23955), (364, 24000), (393, 24132), (399, 24177), (416, 24237), (442, 24351), (445, 24372), (453, 24411), (456, 24432), (458, 24447), (489, 24597), (491, 24603), (494, 24621), (508, 24675), (525, 24759), (547, 24852), (591, 25098), (626, 25314), (637, 25398), (643, 25431),

Gene: Phasih_19 Start: 17939, Stop: 20476, Start Num: 43

Candidate Starts for Phasih_19:

(Start: 43 @17939 has 236 MA's), (52, 17960), (Start: 60 @17981 has 1 MA's), (75, 18020), (109, 18089), (113, 18098), (115, 18101), (124, 18119), (138, 18152), (143, 18167), (190, 18320), (195, 18329), (212, 18374), (232, 18473), (233, 18476), (246, 18542), (260, 18617), (261, 18623), (272, 18665), (273, 18671), (274, 18674), (291, 18707), (293, 18713), (301, 18743), (310, 18764), (316, 18794), (319, 18803), (323, 18818), (324, 18821), (346, 18932), (347, 18935), (348, 18944), (349, 18950), (352, 18965), (354, 18968), (362, 18989), (372, 19019), (375, 19031), (381, 19064), (399, 19175), (400, 19178), (405, 19205), (407, 19211), (420, 19265), (421, 19268), (443, 19355), (445, 19370), (447, 19382), (448, 19385), (459, 19451), (464, 19475), (467, 19496), (469, 19505), (478, 19547), (482, 19565), (483, 19568), (489, 19598), (494, 19622), (499, 19634), (501, 19643), (522, 19739), (525, 19757), (528, 19766), (530, 19778), (536, 19814), (544, 19844), (547, 19853), (549, 19865), (559, 19925), (565, 19979), (576, 20039), (581, 20081), (612, 20216), (616, 20240), (622, 20294), (626, 20342), (634, 20384), (636, 20408), (637, 20411),

Gene: PhatBacter_26 Start: 22312, Stop: 24708, Start Num: 80

Candidate Starts for PhatBacter_26:

(Start: 80 @22312 has 128 MA's), (157, 22489), (162, 22510), (220, 22657), (247, 22798), (254, 22831), (260, 22864), (268, 22900), (301, 22993), (319, 23053), (324, 23071), (350, 23203), (364, 23248), (393, 23380), (399, 23425), (416, 23485), (442, 23599), (445, 23620), (453, 23659), (456, 23680), (458, 23695), (489, 23845), (491, 23851), (494, 23869), (508, 23923), (525, 24007), (547, 24100), (591, 24346), (626, 24562), (637, 24646), (643, 24679),

Gene: Phatniss_19 Start: 17901, Stop: 20438, Start Num: 43

Candidate Starts for Phatniss_19:

(35, 17889), (Start: 43 @17901 has 236 MA's), (52, 17922), (Start: 60 @17943 has 1 MA's), (75, 17982), (109, 18051), (113, 18060), (115, 18063), (124, 18081), (138, 18114), (143, 18129), (160, 18177), (190, 18282), (195, 18291), (211, 18333), (212, 18336), (229, 18414), (233, 18438), (246, 18504), (255, 18549), (260, 18579), (261, 18585), (263, 18603), (272, 18627), (274, 18636), (291, 18669), (293, 18675), (301, 18705), (315, 18744), (316, 18756), (319, 18765), (323, 18780), (324, 18783), (346, 18894), (348, 18906), (349, 18912), (352, 18927), (354, 18930), (362, 18951), (372, 18981), (375, 18993), (381, 19026), (393, 19092), (399, 19137), (400, 19140), (405, 19167), (407, 19173), (420, 19227), (421, 19230), (428, 19257), (445, 19332), (447, 19344), (448, 19347), (459, 19413), (464, 19437), (469, 19467), (478, 19509), (482, 19527), (483, 19530), (491, 19566), (494, 19584), (501, 19605), (507, 19632), (522, 19701), (525, 19719), (528, 19728), (530, 19740), (536,

19776), (544, 19806), (547, 19815), (549, 19827), (559, 19887), (565, 19941), (576, 20001), (581, 20043), (601, 20121), (612, 20178), (616, 20202), (622, 20256), (626, 20304), (634, 20346), (636, 20370), (637, 20373),

Gene: Phaux_25 Start: 22310, Stop: 24706, Start Num: 80

Candidate Starts for Phaux_25:

(Start: 80 @22310 has 128 MA's), (157, 22487), (162, 22508), (220, 22655), (247, 22796), (254, 22829), (260, 22862), (268, 22898), (301, 22991), (319, 23051), (324, 23069), (350, 23201), (364, 23246), (393, 23378), (399, 23423), (416, 23483), (442, 23597), (445, 23618), (453, 23657), (456, 23678), (458, 23693), (489, 23843), (491, 23849), (494, 23867), (508, 23921), (525, 24005), (547, 24098), (591, 24344), (626, 24560), (637, 24644), (643, 24677),

Gene: PhesterPhotato_18 Start: 17419, Stop: 19956, Start Num: 43

Candidate Starts for PhesterPhotato_18:

(35, 17407), (Start: 43 @17419 has 236 MA's), (52, 17440), (Start: 60 @17461 has 1 MA's), (75, 17500), (109, 17569), (113, 17578), (115, 17581), (124, 17599), (138, 17632), (143, 17647), (160, 17695), (194, 17806), (195, 17809), (208, 17839), (212, 17854), (229, 17932), (233, 17956), (246, 18022), (255, 18067), (260, 18097), (261, 18103), (263, 18121), (272, 18145), (274, 18154), (291, 18187), (293, 18193), (301, 18223), (315, 18262), (316, 18274), (319, 18283), (323, 18298), (324, 18301), (346, 18412), (347, 18415), (348, 18424), (349, 18430), (352, 18445), (354, 18448), (362, 18469), (372, 18499), (375, 18511), (381, 18544), (399, 18655), (400, 18658), (405, 18685), (407, 18691), (420, 18745), (421, 18748), (445, 18850), (447, 18862), (448, 18865), (459, 18931), (464, 18955), (467, 18976), (469, 18985), (482, 19045), (483, 19048), (491, 19084), (494, 19102), (499, 19114), (501, 19123), (507, 19150), (522, 19219), (525, 19237), (528, 19246), (530, 19258), (536, 19294), (544, 19324), (549, 19345), (556, 19369), (559, 19405), (565, 19459), (576, 19519), (581, 19561), (601, 19639), (612, 19696), (616, 19720), (617, 19735), (622, 19774), (626, 19822), (634, 19864), (636, 19888), (637, 19891),

Gene: Philus_18 Start: 17405, Stop: 19942, Start Num: 43

Candidate Starts for Philus_18:

(Start: 43 @17405 has 236 MA's), (52, 17426), (Start: 60 @17447 has 1 MA's), (75, 17486), (109, 17555), (113, 17564), (115, 17567), (124, 17585), (143, 17633), (190, 17786), (195, 17795), (212, 17840), (229, 17918), (233, 17942), (246, 18008), (255, 18053), (260, 18083), (261, 18089), (263, 18107), (272, 18131), (274, 18140), (291, 18173), (293, 18179), (301, 18209), (315, 18248), (319, 18269), (323, 18284), (324, 18287), (347, 18401), (348, 18410), (349, 18416), (354, 18434), (362, 18455), (372, 18485), (375, 18497), (381, 18530), (399, 18641), (400, 18644), (405, 18671), (407, 18677), (420, 18731), (421, 18734), (443, 18821), (445, 18836), (448, 18851), (464, 18941), (467, 18962), (469, 18971), (482, 19031), (483, 19034), (491, 19070), (494, 19088), (499, 19100), (501, 19109), (507, 19136), (522, 19205), (525, 19223), (528, 19232), (530, 19244), (536, 19280), (544, 19310), (549, 19331), (556, 19355), (559, 19391), (565, 19445), (581, 19547), (601, 19625), (612, 19682), (616, 19706), (622, 19760), (626, 19808), (634, 19850), (639, 19883), (640, 19886),

Gene: PhlipPhlop_18 Start: 17352, Stop: 19889, Start Num: 43

Candidate Starts for PhlipPhlop_18:

(Start: 43 @17352 has 236 MA's), (52, 17373), (Start: 60 @17394 has 1 MA's), (75, 17433), (109, 17502), (113, 17511), (115, 17514), (124, 17532), (143, 17580), (190, 17733), (195, 17742), (212, 17787), (232, 17886), (233, 17889), (246, 17955), (260, 18030), (261, 18036), (263, 18054), (272, 18078), (273, 18084), (274, 18087), (291, 18120), (293, 18126), (301, 18156), (310, 18177), (316, 18207), (319, 18216), (323, 18231), (324, 18234), (346, 18345), (347, 18348), (348, 18357), (349, 18363), (352, 18378), (354, 18381), (362, 18402), (372, 18432), (375, 18444), (381, 18477), (399, 18588), (400, 18591), (405, 18618), (407, 18624), (420, 18678), (421, 18681), (445, 18783), (447, 18795), (448, 18798), (459, 18864), (464, 18888), (467, 18909), (469, 18918), (482, 18978), (483, 18981), (491, 19017), (494, 19035), (499, 19047), (501, 19056), (507, 19083), (521, 19140), (522,

19152), (525, 19170), (528, 19179), (530, 19191), (536, 19227), (544, 19257), (547, 19266), (549, 19278), (559, 19338), (565, 19392), (576, 19452), (581, 19494), (612, 19629), (616, 19653), (622, 19707), (626, 19755), (634, 19797), (636, 19821), (637, 19824),

Gene: Phreeze_29 Start: 25682, Stop: 28525, Start Num: 15

Candidate Starts for Phreeze_29:

(Start: 15 @25682 has 8 MA's), (19, 25814), (21, 25826), (23, 25835), (38, 25904), (65, 25970), (71, 25991), (89, 26039), (107, 26081), (118, 26105), (129, 26138), (145, 26174), (152, 26186), (178, 26279), (195, 26336), (207, 26375), (247, 26570), (253, 26600), (261, 26642), (310, 26783), (315, 26801), (332, 26882), (341, 26921), (345, 26942), (381, 27080), (387, 27119), (398, 27182), (421, 27284), (466, 27509), (545, 27872), (552, 27899), (593, 28142), (599, 28175), (605, 28199), (621, 28319), (632, 28397), (643, 28484), (645, 28499), (646, 28505),

Gene: Phrux_26 Start: 22025, Stop: 24421, Start Num: 80

Candidate Starts for Phrux_26:

(Start: 80 @22025 has 128 MA's), (157, 22202), (162, 22223), (220, 22370), (254, 22544), (260, 22577), (268, 22613), (301, 22706), (319, 22766), (324, 22784), (350, 22916), (364, 22961), (393, 23093), (399, 23138), (416, 23198), (442, 23312), (445, 23333), (453, 23372), (456, 23393), (458, 23408), (489, 23558), (491, 23564), (494, 23582), (508, 23636), (525, 23720), (547, 23813), (591, 24059), (626, 24275), (637, 24359), (643, 24392),

Gene: Piatt_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Piatt_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Pinnie_23 Start: 21181, Stop: 23643, Start Num: 39

Candidate Starts for Pinnie_23:

(Start: 39 @21181 has 9 MA's), (76, 21286), (77, 21289), (139, 21409), (158, 21451), (166, 21484), (203, 21589), (243, 21772), (257, 21832), (293, 21955), (304, 21994), (319, 22042), (320, 22045), (341, 22141), (345, 22162), (350, 22192), (355, 22216), (379, 22297), (381, 22306), (386, 22333), (406, 22453), (425, 22540), (436, 22588), (451, 22669), (458, 22711), (478, 22804), (494, 22888), (556, 23149), (559, 23188), (569, 23275), (581, 23347), (609, 23464), (611, 23476), (623, 23581), (627, 23626),

Gene: Piper2020_19 Start: 17270, Stop: 19795, Start Num: 43

Candidate Starts for Piper2020_19:

(Start: 43 @17270 has 236 MA's), (52, 17291), (Start: 60 @17312 has 1 MA's), (75, 17351), (109, 17420), (113, 17429), (115, 17432), (124, 17450), (138, 17483), (143, 17498), (160, 17546), (194, 17657), (195, 17660), (212, 17705), (229, 17783), (233, 17807), (246, 17873), (247, 17882), (260, 17948), (261, 17954), (263, 17972), (272, 17996), (273, 18002), (274, 18005), (291, 18038), (293, 18044), (301, 18074), (310, 18095), (319, 18134), (323, 18149), (325, 18155), (354, 18299), (372, 18350), (392, 18461), (400, 18512), (404, 18536), (428, 18629), (439, 18674), (442, 18683), (445, 18704), (447, 18716), (448, 18719), (456, 18764), (464, 18809), (466, 18827), (467, 18830), (478, 18881), (489, 18932), (491, 18938), (494, 18956), (499, 18968), (501, 18977), (508, 19010), (525, 19091), (540, 19160), (547, 19187), (553, 19214), (560, 19265), (565, 19313), (615, 19556), (626, 19661), (631, 19682), (639, 19736), (642, 19760),

Gene: Pisa1_26 Start: 20946, Stop: 23378, Start Num: 88

Candidate Starts for Pisa1_26:

(Start: 88 @20946 has 96 MA's), (110, 20997), (115, 21006), (218, 21306), (223, 21327), (271, 21564), (272, 21567), (276, 21597), (277, 21600), (297, 21669), (303, 21693), (304, 21699), (316, 21738), (327, 21777), (346, 21891), (353, 21936), (356, 21948), (360, 21957), (375, 22008), (406, 22188), (410, 22203), (424, 22272), (440, 22347), (448, 22389), (456, 22428), (457, 22434), (458, 22443), (462, 22464), (475, 22524), (484, 22572), (501, 22641), (509, 22683), (529, 22764), (541, 22821), (548, 22857), (553, 22878), (565, 22974), (576, 23037), (584, 23085), (610, 23202), (619, 23277),

Gene: Pisa4_26 Start: 20946, Stop: 23378, Start Num: 88

Candidate Starts for Pisa4_26:

(Start: 88 @20946 has 96 MA's), (110, 20997), (115, 21006), (218, 21306), (223, 21327), (271, 21564), (272, 21567), (276, 21597), (277, 21600), (297, 21669), (303, 21693), (304, 21699), (316, 21738), (327, 21777), (346, 21891), (353, 21936), (356, 21948), (360, 21957), (375, 22008), (406, 22188), (410, 22203), (424, 22272), (440, 22347), (448, 22389), (456, 22428), (457, 22434), (458, 22443), (462, 22464), (475, 22524), (484, 22572), (501, 22641), (509, 22683), (529, 22764), (541, 22821), (548, 22857), (553, 22878), (565, 22974), (576, 23037), (584, 23085), (610, 23202), (619, 23277),

Gene: Plumbus_19 Start: 17226, Stop: 19763, Start Num: 43

Candidate Starts for Plumbus_19:

(35, 17214), (Start: 43 @17226 has 236 MA's), (52, 17247), (Start: 60 @17268 has 1 MA's), (75, 17307), (109, 17376), (113, 17385), (115, 17388), (124, 17406), (138, 17439), (143, 17454), (160, 17502), (194, 17613), (195, 17616), (208, 17646), (211, 17658), (212, 17661), (229, 17739), (233, 17763), (246, 17829), (255, 17874), (260, 17904), (261, 17910), (263, 17928), (272, 17952), (274, 17961), (291, 17994), (293, 18000), (301, 18030), (315, 18069), (316, 18081), (319, 18090), (323, 18105), (324, 18108), (346, 18219), (347, 18222), (348, 18231), (349, 18237), (352, 18252), (354, 18255), (362, 18276), (372, 18306), (375, 18318), (381, 18351), (393, 18417), (399, 18462), (400, 18465), (405, 18492), (407, 18498), (420, 18552), (421, 18555), (443, 18642), (445, 18657), (447, 18669), (448, 18672), (459, 18738), (464, 18762), (467, 18783), (469, 18792), (482, 18852), (483, 18855), (491, 18891), (494, 18909), (499, 18921), (501, 18930), (507, 18957), (522, 19026), (525, 19044), (528, 19053), (530, 19065), (536, 19101), (544, 19131), (549, 19152), (556, 19176), (559, 19212), (565, 19266), (576, 19326), (581, 19368), (601, 19446), (612, 19503), (616, 19527), (622, 19581), (626, 19629), (634, 19671), (636, 19695), (637, 19698),

Gene: Poenanya_18 Start: 17534, Stop: 20071, Start Num: 43

Candidate Starts for Poenanya_18:

(Start: 43 @17534 has 236 MA's), (52, 17555), (Start: 60 @17576 has 1 MA's), (75, 17615), (109, 17684), (113, 17693), (115, 17696), (124, 17714), (143, 17762), (194, 17921), (195, 17924), (212, 17969), (229, 18047), (233, 18071), (246, 18137), (260, 18212), (261, 18218), (263, 18236), (272, 18260), (273, 18266), (274, 18269), (291, 18302), (293, 18308), (301, 18338), (310, 18359), (316, 18389), (319, 18398), (342, 18506), (345, 18518), (346, 18527), (347, 18530), (349, 18545), (352, 18560), (354, 18563), (362, 18584), (375, 18626), (381, 18659), (399, 18770), (400, 18773), (405, 18800), (407, 18806), (420, 18860), (421, 18863), (428, 18890), (445, 18965), (447, 18977), (448, 18980), (459, 19046), (463, 19067), (464, 19070), (467, 19091), (469, 19100), (482, 19160), (483, 19163), (491, 19199), (494, 19217), (499, 19229), (501, 19238), (507, 19265), (521, 19322), (522, 19334), (525, 19352), (528, 19361), (530, 19373), (536, 19409), (544, 19439), (547, 19448), (549, 19460), (559, 19520), (565, 19574), (576, 19634), (581, 19676), (612, 19811), (616, 19835), (622, 19889), (626, 19937), (634, 19979), (636, 20003), (637, 20006),

Gene: Pokerus_26 Start: 20829, Stop: 23261, Start Num: 88

Candidate Starts for Pokerus_26:

(Start: 88 @20829 has 96 MA's), (132, 20928), (218, 21189), (223, 21210), (263, 21417), (272, 21450), (276, 21480), (297, 21552), (303, 21576), (346, 21774), (353, 21819), (356, 21831), (360, 21840), (375, 21891), (406, 22071), (410, 22086), (424, 22155), (428, 22167), (440, 22230), (448, 22272),

(456, 22311), (457, 22317), (458, 22326), (462, 22347), (475, 22407), (501, 22524), (509, 22566), (527, 22638), (529, 22647), (534, 22668), (548, 22740), (553, 22761), (565, 22857), (594, 23004), (610, 23085), (626, 23232),

Gene: Policronamos_26 Start: 22312, Stop: 24708, Start Num: 80

Candidate Starts for Policronamos_26:

(Start: 80 @22312 has 128 MA's), (157, 22489), (162, 22510), (220, 22657), (247, 22798), (254, 22831), (260, 22864), (268, 22900), (301, 22993), (319, 23053), (324, 23071), (341, 23152), (393, 23380), (399, 23425), (445, 23620), (446, 23626), (448, 23635), (456, 23680), (458, 23695), (491, 23851), (494, 23869), (497, 23878), (509, 23932), (525, 24007), (564, 24220), (566, 24232), (591, 24346), (626, 24562), (637, 24646), (641, 24670), (643, 24679),

Gene: Polka14_19 Start: 17940, Stop: 20477, Start Num: 43

Candidate Starts for Polka14_19:

(35, 17928), (Start: 43 @17940 has 236 MA's), (52, 17961), (Start: 60 @17982 has 1 MA's), (75, 18021), (109, 18090), (113, 18099), (115, 18102), (124, 18120), (143, 18168), (160, 18216), (194, 18327), (195, 18330), (212, 18375), (229, 18453), (233, 18477), (246, 18543), (255, 18588), (260, 18618), (261, 18624), (263, 18642), (272, 18666), (274, 18675), (291, 18708), (293, 18714), (301, 18744), (315, 18783), (316, 18795), (319, 18804), (323, 18819), (324, 18822), (346, 18933), (347, 18936), (348, 18945), (349, 18951), (352, 18966), (354, 18969), (362, 18990), (372, 19020), (375, 19032), (381, 19065), (399, 19176), (400, 19179), (405, 19206), (407, 19212), (420, 19266), (421, 19269), (445, 19371), (447, 19383), (448, 19386), (459, 19452), (464, 19476), (467, 19497), (469, 19506), (482, 19566), (483, 19569), (491, 19605), (494, 19623), (501, 19644), (507, 19671), (522, 19740), (525, 19758), (528, 19767), (530, 19779), (536, 19815), (549, 19866), (554, 19884), (559, 19926), (565, 19980), (581, 20082), (612, 20217), (616, 20241), (622, 20295), (631, 20364), (636, 20409), (637, 20412),

Gene: Pollywog_21 Start: 18605, Stop: 21094, Start Num: 43

Candidate Starts for Pollywog_21:

(Start: 43 @18605 has 236 MA's), (52, 18626), (Start: 60 @18647 has 1 MA's), (77, 18686), (109, 18755), (113, 18764), (115, 18767), (124, 18785), (143, 18833), (160, 18881), (184, 18935), (195, 18971), (197, 18977), (198, 18980), (210, 18998), (215, 19022), (222, 19046), (235, 19109), (252, 19193), (255, 19202), (260, 19226), (263, 19250), (272, 19274), (273, 19280), (279, 19301), (293, 19322), (301, 19352), (312, 19382), (316, 19403), (338, 19496), (341, 19511), (342, 19520), (346, 19541), (347, 19544), (372, 19628), (373, 19631), (375, 19640), (380, 19667), (382, 19676), (388, 19715), (391, 19736), (393, 19739), (398, 19775), (401, 19796), (420, 19874), (421, 19877), (436, 19931), (447, 19991), (464, 20084), (466, 20102), (467, 20105), (476, 20141), (487, 20195), (489, 20204), (506, 20282), (509, 20300), (518, 20336), (519, 20339), (522, 20357), (523, 20360), (525, 20375), (530, 20396), (536, 20432), (540, 20444), (556, 20507), (559, 20540), (569, 20627), (578, 20675), (580, 20699), (587, 20726), (591, 20735), (600, 20774), (608, 20813), (612, 20837), (615, 20858), (626, 20954), (631, 20975), (640, 21038), (643, 21065), (644, 21074),

Gene: Polo2Bam_20 Start: 17446, Stop: 19983, Start Num: 43

Candidate Starts for Polo2Bam_20:

(Start: 43 @17446 has 236 MA's), (52, 17467), (Start: 60 @17488 has 1 MA's), (74, 17524), (75, 17527), (109, 17596), (113, 17605), (115, 17608), (124, 17626), (138, 17659), (143, 17674), (160, 17722), (190, 17827), (194, 17833), (195, 17836), (211, 17878), (212, 17881), (233, 17983), (246, 18049), (255, 18094), (260, 18124), (261, 18130), (263, 18148), (272, 18172), (274, 18181), (291, 18214), (293, 18220), (310, 18271), (315, 18289), (316, 18301), (319, 18310), (323, 18325), (325, 18331), (346, 18439), (348, 18451), (349, 18457), (352, 18472), (354, 18475), (362, 18496), (372, 18526), (375, 18538), (381, 18571), (393, 18637), (399, 18682), (400, 18685), (405, 18712), (407, 18718), (420, 18772), (421, 18775), (443, 18862), (445, 18877), (447, 18889), (448, 18892), (459, 18958), (467, 19003), (469, 19012), (482, 19072), (483, 19075), (491, 19111), (494, 19129), (499,

19141), (501, 19150), (507, 19177), (522, 19246), (525, 19264), (528, 19273), (530, 19285), (536, 19321), (544, 19351), (549, 19372), (556, 19396), (559, 19432), (565, 19486), (576, 19546), (581, 19588), (601, 19666), (612, 19723), (616, 19747), (622, 19801), (626, 19849), (634, 19891), (636, 19915), (637, 19918),

Gene: PopTart_18 Start: 17445, Stop: 19982, Start Num: 43

Candidate Starts for PopTart_18:

(35, 17433), (Start: 43 @17445 has 236 MA's), (52, 17466), (Start: 60 @17487 has 1 MA's), (75, 17526), (109, 17595), (113, 17604), (115, 17607), (124, 17625), (138, 17658), (143, 17673), (194, 17832), (195, 17835), (212, 17880), (229, 17958), (233, 17982), (246, 18048), (260, 18123), (261, 18129), (263, 18147), (272, 18171), (273, 18177), (274, 18180), (291, 18213), (293, 18219), (301, 18249), (310, 18270), (316, 18300), (319, 18309), (337, 18390), (348, 18450), (349, 18456), (352, 18471), (354, 18474), (362, 18495), (375, 18537), (381, 18570), (382, 18573), (405, 18711), (407, 18717), (420, 18771), (421, 18774), (428, 18801), (445, 18876), (447, 18888), (448, 18891), (459, 18957), (464, 18981), (467, 19002), (469, 19011), (482, 19071), (483, 19074), (491, 19110), (494, 19128), (501, 19149), (522, 19245), (525, 19263), (528, 19272), (530, 19284), (536, 19320), (544, 19350), (559, 19431), (565, 19485), (581, 19587), (612, 19722), (616, 19746), (622, 19800), (626, 19848), (634, 19890), (636, 19914), (637, 19917),

Gene: Porcelain_35 Start: 27554, Stop: 30061, Start Num: 43

Candidate Starts for Porcelain_35:

(Start: 43 @27554 has 236 MA's), (124, 27749), (138, 27785), (143, 27800), (179, 27887), (184, 27902), (212, 27977), (215, 27989), (223, 28016), (243, 28121), (252, 28160), (255, 28169), (260, 28193), (261, 28199), (263, 28217), (270, 28235), (274, 28250), (275, 28259), (279, 28268), (291, 28283), (299, 28310), (301, 28319), (315, 28358), (316, 28370), (319, 28379), (338, 28463), (354, 28544), (364, 28574), (365, 28577), (375, 28607), (380, 28634), (382, 28643), (390, 28694), (391, 28703), (393, 28706), (398, 28742), (401, 28763), (411, 28799), (446, 28952), (456, 29006), (464, 29051), (466, 29069), (467, 29072), (476, 29111), (506, 29258), (508, 29267), (523, 29336), (525, 29351), (559, 29516), (569, 29603), (578, 29651), (591, 29702), (608, 29780), (638, 30002), (640, 30005), (643, 30032),

Gene: Porky_26 Start: 22121, Stop: 24517, Start Num: 80

Candidate Starts for Porky_26:

(Start: 80 @22121 has 128 MA's), (157, 22298), (162, 22319), (220, 22466), (247, 22607), (254, 22640), (260, 22673), (268, 22709), (301, 22802), (319, 22862), (324, 22880), (350, 23012), (364, 23057), (393, 23189), (399, 23234), (416, 23294), (442, 23408), (445, 23429), (453, 23468), (456, 23489), (458, 23504), (489, 23654), (491, 23660), (494, 23678), (508, 23732), (525, 23816), (547, 23909), (591, 24155), (626, 24371), (637, 24455), (643, 24488),

Gene: Priscilla_18 Start: 17407, Stop: 19959, Start Num: 43

Candidate Starts for Priscilla_18:

(Start: 43 @17407 has 236 MA's), (75, 17488), (109, 17557), (113, 17566), (115, 17569), (124, 17587), (143, 17635), (159, 17680), (194, 17794), (195, 17797), (199, 17809), (209, 17830), (211, 17839), (212, 17842), (223, 17890), (229, 17920), (240, 17986), (247, 18019), (255, 18055), (259, 18079), (273, 18139), (274, 18142), (279, 18160), (308, 18223), (310, 18226), (315, 18244), (319, 18265), (324, 18283), (330, 18310), (334, 18331), (341, 18364), (348, 18406), (349, 18412), (350, 18415), (354, 18430), (363, 18457), (364, 18460), (372, 18481), (375, 18493), (381, 18526), (397, 18619), (420, 18727), (426, 18751), (428, 18757), (433, 18775), (434, 18778), (439, 18802), (445, 18832), (450, 18856), (456, 18892), (457, 18898), (458, 18907), (463, 18934), (473, 18997), (478, 19021), (479, 19036), (489, 19078), (502, 19129), (523, 19225), (525, 19240), (528, 19249), (533, 19273), (547, 19336), (556, 19372), (609, 19678), (616, 19723), (626, 19825),

Gene: Prithvi_27 Start: 20846, Stop: 23278, Start Num: 88

Candidate Starts for Prithvi_27:

(Start: 88 @20846 has 96 MA's), (132, 20945), (218, 21206), (263, 21434), (272, 21467), (276, 21497), (297, 21569), (303, 21593), (316, 21638), (346, 21791), (353, 21836), (356, 21848), (360, 21857), (371, 21893), (375, 21908), (406, 22088), (410, 22103), (424, 22172), (428, 22184), (440, 22247), (448, 22289), (456, 22328), (457, 22334), (458, 22343), (462, 22364), (475, 22424), (501, 22541), (509, 22583), (527, 22655), (529, 22664), (534, 22685), (548, 22757), (553, 22778), (565, 22874), (610, 23102), (626, 23249),

Gene: Ptowny_26 Start: 21666, Stop: 24062, Start Num: 80

Candidate Starts for Ptowny_26:

(Start: 80 @21666 has 128 MA's), (157, 21843), (162, 21864), (220, 22011), (254, 22185), (260, 22218), (268, 22254), (301, 22347), (319, 22407), (324, 22425), (343, 22518), (350, 22557), (364, 22602), (393, 22734), (399, 22779), (416, 22839), (442, 22953), (445, 22974), (453, 23013), (456, 23034), (458, 23049), (489, 23199), (491, 23205), (494, 23223), (508, 23277), (525, 23361), (547, 23454), (591, 23700), (626, 23916), (637, 24000), (643, 24033),

Gene: Puissant_28 Start: 26145, Stop: 28988, Start Num: 15

Candidate Starts for Puissant_28:

(Start: 15 @26145 has 8 MA's), (18, 26247), (19, 26277), (21, 26289), (23, 26298), (41, 26373), (63, 26427), (65, 26433), (71, 26454), (78, 26475), (89, 26502), (166, 26715), (172, 26727), (198, 26808), (201, 26817), (223, 26904), (225, 26910), (235, 26964), (259, 27093), (261, 27105), (301, 27225), (310, 27246), (341, 27384), (375, 27510), (421, 27747), (439, 27819), (447, 27861), (450, 27873), (466, 27972), (485, 28068), (536, 28308), (559, 28416), (593, 28608), (599, 28641), (605, 28665), (608, 28683), (621, 28785), (632, 28863), (639, 28920), (643, 28950), (645, 28965),

Gene: Pumpkin_28 Start: 22364, Stop: 24760, Start Num: 80

Candidate Starts for Pumpkin_28:

(Start: 80 @22364 has 128 MA's), (157, 22541), (162, 22562), (220, 22709), (254, 22883), (260, 22916), (268, 22952), (301, 23045), (319, 23105), (324, 23123), (350, 23255), (364, 23300), (393, 23432), (399, 23477), (416, 23537), (442, 23651), (445, 23672), (453, 23711), (456, 23732), (458, 23747), (489, 23897), (491, 23903), (494, 23921), (508, 23975), (525, 24059), (547, 24152), (591, 24398), (626, 24614), (637, 24698), (643, 24731),

Gene: Pygmy_20 Start: 18761, Stop: 21265, Start Num: 57

Candidate Starts for Pygmy_20:

(Start: 57 @18761 has 33 MA's), (61, 18770), (115, 18914), (232, 19319), (237, 19334), (240, 19364), (242, 19370), (246, 19388), (272, 19496), (293, 19547), (324, 19658), (325, 19661), (332, 19700), (341, 19733), (354, 19799), (375, 19859), (380, 19886), (381, 19892), (445, 20198), (456, 20258), (462, 20306), (463, 20309), (466, 20330), (467, 20333), (525, 20594), (554, 20717), (555, 20720), (565, 20810), (576, 20867), (579, 20888), (603, 20948), (632, 21149), (635, 21191),

Gene: Quallification_27 Start: 22490, Stop: 24886, Start Num: 80

Candidate Starts for Quallification_27:

(Start: 80 @22490 has 128 MA's), (157, 22667), (162, 22688), (220, 22835), (247, 22976), (254, 23009), (260, 23042), (268, 23078), (301, 23171), (319, 23231), (324, 23249), (350, 23381), (364, 23426), (393, 23558), (399, 23603), (416, 23663), (442, 23777), (445, 23798), (453, 23837), (456, 23858), (458, 23873), (489, 24023), (491, 24029), (494, 24047), (508, 24101), (525, 24185), (547, 24278), (591, 24524), (626, 24740), (637, 24824), (643, 24857),

Gene: QuickMath_19 Start: 18743, Stop: 21280, Start Num: 43

Candidate Starts for QuickMath_19:

(35, 18731), (Start: 43 @18743 has 236 MA's), (52, 18764), (Start: 60 @18785 has 1 MA's), (75, 18824), (109, 18893), (113, 18902), (115, 18905), (124, 18923), (138, 18956), (143, 18971), (160,

19019), (194, 19130), (195, 19133), (208, 19163), (211, 19175), (212, 19178), (229, 19256), (233, 19280), (246, 19346), (255, 19391), (260, 19421), (261, 19427), (263, 19445), (272, 19469), (274, 19478), (291, 19511), (293, 19517), (301, 19547), (315, 19586), (316, 19598), (319, 19607), (323, 19622), (324, 19625), (346, 19736), (347, 19739), (348, 19748), (349, 19754), (352, 19769), (354, 19772), (362, 19793), (372, 19823), (375, 19835), (381, 19868), (399, 19979), (400, 19982), (405, 20009), (407, 20015), (420, 20069), (421, 20072), (443, 20159), (445, 20174), (447, 20186), (448, 20189), (459, 20255), (464, 20279), (467, 20300), (469, 20309), (478, 20351), (482, 20369), (483, 20372), (491, 20408), (494, 20426), (499, 20438), (501, 20447), (507, 20474), (522, 20543), (525, 20561), (528, 20570), (530, 20582), (536, 20618), (544, 20648), (549, 20669), (556, 20693), (559, 20729), (565, 20783), (576, 20843), (581, 20885), (601, 20963), (612, 21020), (616, 21044), (622, 21098), (626, 21146), (634, 21188), (636, 21212), (637, 21215),

Gene: Quico_19 Start: 17227, Stop: 19764, Start Num: 43

Candidate Starts for Quico_19:

(Start: 43 @17227 has 236 MA's), (52, 17248), (Start: 60 @17269 has 1 MA's), (75, 17308), (109, 17377), (113, 17386), (115, 17389), (124, 17407), (138, 17440), (143, 17455), (160, 17503), (194, 17614), (195, 17617), (208, 17647), (212, 17662), (229, 17740), (233, 17764), (246, 17830), (255, 17875), (260, 17905), (261, 17911), (263, 17929), (272, 17953), (274, 17962), (291, 17995), (293, 18001), (301, 18031), (315, 18070), (319, 18091), (323, 18106), (324, 18109), (347, 18223), (348, 18232), (349, 18238), (354, 18256), (362, 18277), (372, 18307), (375, 18319), (381, 18352), (399, 18463), (400, 18466), (405, 18493), (407, 18499), (420, 18553), (421, 18556), (443, 18643), (445, 18658), (448, 18673), (464, 18763), (467, 18784), (469, 18793), (482, 18853), (483, 18856), (489, 18886), (494, 18910), (501, 18931), (522, 19027), (525, 19045), (528, 19054), (530, 19066), (536, 19102), (544, 19132), (549, 19153), (556, 19177), (559, 19213), (565, 19267), (576, 19327), (581, 19369), (601, 19447), (612, 19504), (616, 19528), (622, 19582), (626, 19630), (634, 19672), (636, 19696), (637, 19699),

Gene: QuincyRose_26 Start: 20892, Stop: 23324, Start Num: 88

Candidate Starts for QuincyRose_26:

(Start: 88 @20892 has 96 MA's), (132, 20991), (218, 21252), (223, 21273), (263, 21480), (272, 21513), (276, 21543), (297, 21615), (303, 21639), (316, 21684), (346, 21837), (353, 21882), (356, 21894), (360, 21903), (375, 21954), (406, 22134), (410, 22149), (424, 22218), (428, 22230), (440, 22293), (448, 22335), (456, 22374), (457, 22380), (458, 22389), (462, 22410), (475, 22470), (501, 22587), (509, 22629), (527, 22701), (529, 22710), (534, 22731), (548, 22803), (553, 22824), (565, 22920), (576, 22983), (594, 23067), (602, 23109), (610, 23148),

Gene: Radiance_18 Start: 17380, Stop: 19917, Start Num: 43

Candidate Starts for Radiance_18:

(35, 17368), (Start: 43 @17380 has 236 MA's), (52, 17401), (Start: 60 @17422 has 1 MA's), (75, 17461), (109, 17530), (113, 17539), (115, 17542), (124, 17560), (138, 17593), (143, 17608), (160, 17656), (190, 17761), (194, 17767), (195, 17770), (211, 17812), (212, 17815), (233, 17917), (246, 17983), (255, 18028), (260, 18058), (261, 18064), (263, 18082), (272, 18106), (274, 18115), (291, 18148), (293, 18154), (301, 18184), (316, 18235), (319, 18244), (342, 18352), (345, 18364), (346, 18373), (347, 18376), (349, 18391), (352, 18406), (354, 18409), (362, 18430), (372, 18460), (375, 18472), (381, 18505), (399, 18616), (400, 18619), (405, 18646), (407, 18652), (420, 18706), (421, 18709), (428, 18736), (445, 18811), (447, 18823), (448, 18826), (459, 18892), (463, 18913), (464, 18916), (467, 18937), (469, 18946), (482, 19006), (483, 19009), (489, 19039), (494, 19063), (499, 19075), (501, 19084), (522, 19180), (525, 19198), (528, 19207), (530, 19219), (544, 19285), (547, 19294), (549, 19306), (556, 19330), (559, 19366), (581, 19522), (612, 19657), (616, 19681), (622, 19735), (631, 19804), (636, 19849), (637, 19852),

Gene: Rakim_27 Start: 22397, Stop: 24793, Start Num: 80

Candidate Starts for Rakim_27:

(Start: 80 @22397 has 128 MA's), (157, 22574), (162, 22595), (220, 22742), (247, 22883), (254, 22916), (260, 22949), (268, 22985), (301, 23078), (319, 23138), (324, 23156), (341, 23237), (393, 23465), (399, 23510), (445, 23705), (446, 23711), (448, 23720), (456, 23765), (458, 23780), (491, 23936), (494, 23954), (497, 23963), (509, 24017), (525, 24092), (526, 24095), (564, 24305), (566, 24317), (591, 24431), (626, 24647), (637, 24731), (641, 24755), (643, 24764),

Gene: Ramen_27 Start: 20878, Stop: 23310, Start Num: 88

Candidate Starts for Ramen_27:

(Start: 88 @20878 has 96 MA's), (132, 20977), (218, 21238), (223, 21259), (263, 21466), (272, 21499), (276, 21529), (297, 21601), (303, 21625), (346, 21823), (353, 21868), (356, 21880), (360, 21889), (375, 21940), (406, 22120), (410, 22135), (424, 22204), (428, 22216), (440, 22279), (448, 22321), (456, 22360), (457, 22366), (458, 22375), (462, 22396), (475, 22456), (501, 22573), (509, 22615), (527, 22687), (529, 22696), (534, 22717), (548, 22789), (553, 22810), (565, 22906), (594, 23053), (610, 23134), (626, 23281),

Gene: Ramsey_19 Start: 17429, Stop: 19966, Start Num: 43

Candidate Starts for Ramsey_19:

(Start: 43 @17429 has 236 MA's), (52, 17450), (Start: 60 @17471 has 1 MA's), (75, 17510), (109, 17579), (113, 17588), (115, 17591), (124, 17609), (143, 17657), (194, 17816), (195, 17819), (212, 17864), (229, 17942), (233, 17966), (246, 18032), (260, 18107), (261, 18113), (263, 18131), (272, 18155), (273, 18161), (274, 18164), (291, 18197), (293, 18203), (301, 18233), (310, 18254), (316, 18284), (319, 18293), (342, 18401), (345, 18413), (346, 18422), (347, 18425), (349, 18440), (352, 18455), (354, 18458), (362, 18479), (375, 18521), (381, 18554), (399, 18665), (400, 18668), (405, 18695), (407, 18701), (420, 18755), (421, 18758), (428, 18785), (445, 18860), (447, 18872), (448, 18875), (459, 18941), (463, 18962), (464, 18965), (467, 18986), (469, 18995), (478, 19037), (482, 19055), (483, 19058), (489, 19088), (494, 19112), (499, 19124), (501, 19133), (522, 19229), (525, 19247), (528, 19256), (530, 19268), (536, 19304), (544, 19334), (547, 19343), (549, 19355), (559, 19415), (565, 19469), (576, 19529), (581, 19571), (612, 19706), (616, 19730), (622, 19784), (626, 19832), (634, 19874), (636, 19898), (637, 19901),

Gene: Rapunzel97_27 Start: 20879, Stop: 23311, Start Num: 88

Candidate Starts for Rapunzel97_27:

(Start: 88 @20879 has 96 MA's), (132, 20978), (218, 21239), (223, 21260), (263, 21467), (272, 21500), (276, 21530), (297, 21602), (303, 21626), (316, 21671), (346, 21824), (353, 21869), (356, 21881), (360, 21890), (375, 21941), (406, 22121), (410, 22136), (424, 22205), (428, 22217), (448, 22322), (456, 22361), (457, 22367), (458, 22376), (475, 22457), (484, 22505), (502, 22580), (509, 22616), (529, 22697), (534, 22718), (553, 22811), (565, 22907), (594, 23054), (602, 23096), (610, 23135), (619, 23210),

Gene: RedBird_18 Start: 17357, Stop: 19894, Start Num: 43

Candidate Starts for RedBird_18:

(Start: 43 @17357 has 236 MA's), (52, 17378), (Start: 60 @17399 has 1 MA's), (75, 17438), (109, 17507), (113, 17516), (115, 17519), (124, 17537), (143, 17585), (190, 17738), (195, 17747), (212, 17792), (232, 17891), (233, 17894), (246, 17960), (260, 18035), (261, 18041), (263, 18059), (272, 18083), (273, 18089), (274, 18092), (291, 18125), (293, 18131), (301, 18161), (310, 18182), (316, 18212), (319, 18221), (323, 18236), (324, 18239), (346, 18350), (347, 18353), (348, 18362), (349, 18368), (352, 18383), (354, 18386), (362, 18407), (372, 18437), (375, 18449), (381, 18482), (399, 18593), (400, 18596), (405, 18623), (407, 18629), (420, 18683), (421, 18686), (443, 18773), (445, 18788), (447, 18800), (448, 18803), (459, 18869), (464, 18893), (467, 18914), (469, 18923), (482, 18983), (483, 18986), (491, 19022), (494, 19040), (499, 19052), (501, 19061), (507, 19088), (521, 19145), (522, 19157), (525, 19175), (528, 19184), (530, 19196), (536, 19232), (544, 19262), (547, 19271), (549, 19283), (559, 19343), (565, 19397), (576, 19457), (581, 19499), (612, 19634), (616, 19658), (622, 19712), (626, 19760), (634, 19802), (636, 19826), (637, 19829),

Gene: Renaud18_20 Start: 17833, Stop: 20313, Start Num: 46

Candidate Starts for Renaud18_20:

(Start: 46 @17833 has 3 MA's), (50, 17839), (52, 17845), (Start: 80 @17908 has 128 MA's), (82, 17911), (96, 17938), (119, 17992), (124, 18001), (138, 18034), (153, 18067), (160, 18100), (179, 18139), (184, 18154), (195, 18190), (197, 18196), (198, 18199), (210, 18217), (212, 18229), (215, 18241), (222, 18265), (223, 18268), (252, 18412), (255, 18421), (260, 18445), (263, 18469), (272, 18493), (273, 18499), (279, 18520), (293, 18541), (301, 18571), (312, 18601), (316, 18622), (338, 18715), (341, 18730), (342, 18739), (346, 18760), (347, 18763), (357, 18805), (372, 18847), (373, 18850), (375, 18859), (380, 18886), (388, 18934), (391, 18955), (393, 18958), (398, 18994), (401, 19015), (420, 19093), (421, 19096), (436, 19150), (447, 19210), (464, 19303), (467, 19324), (476, 19360), (487, 19414), (489, 19423), (506, 19501), (509, 19519), (518, 19555), (519, 19558), (522, 19576), (523, 19579), (525, 19594), (530, 19615), (536, 19651), (540, 19663), (556, 19726), (559, 19759), (569, 19846), (578, 19894), (580, 19918), (587, 19945), (591, 19954), (600, 19993), (608, 20032), (612, 20056), (615, 20077), (626, 20173), (631, 20194), (640, 20257), (643, 20284), (644, 20293),

Gene: Rialto_20 Start: 17909, Stop: 20446, Start Num: 43

Candidate Starts for Rialto_20:

(Start: 43 @17909 has 236 MA's), (52, 17930), (Start: 60 @17951 has 1 MA's), (75, 17990), (109, 18059), (113, 18068), (115, 18071), (124, 18089), (143, 18137), (190, 18290), (195, 18299), (212, 18344), (232, 18443), (233, 18446), (246, 18512), (260, 18587), (261, 18593), (263, 18611), (272, 18635), (273, 18641), (274, 18644), (291, 18677), (293, 18683), (301, 18713), (310, 18734), (316, 18764), (319, 18773), (323, 18788), (324, 18791), (346, 18902), (347, 18905), (348, 18914), (349, 18920), (352, 18935), (354, 18938), (362, 18959), (372, 18989), (375, 19001), (381, 19034), (399, 19145), (400, 19148), (405, 19175), (407, 19181), (420, 19235), (421, 19238), (445, 19340), (447, 19352), (448, 19355), (459, 19421), (464, 19445), (467, 19466), (469, 19475), (482, 19535), (483, 19538), (491, 19574), (494, 19592), (499, 19604), (501, 19613), (507, 19640), (521, 19697), (522, 19709), (525, 19727), (528, 19736), (530, 19748), (536, 19784), (544, 19814), (547, 19823), (549, 19835), (559, 19895), (565, 19949), (576, 20009), (581, 20051), (612, 20186), (616, 20210), (622, 20264), (626, 20312), (634, 20354), (636, 20378), (637, 20381),

Gene: Rimmer_25 Start: 21850, Stop: 24246, Start Num: 80

Candidate Starts for Rimmer_25:

(Start: 80 @21850 has 128 MA's), (157, 22027), (162, 22048), (220, 22195), (247, 22336), (254, 22369), (260, 22402), (268, 22438), (301, 22531), (319, 22591), (324, 22609), (350, 22741), (364, 22786), (393, 22918), (399, 22963), (442, 23137), (445, 23158), (453, 23197), (456, 23218), (458, 23233), (491, 23389), (494, 23407), (508, 23461), (525, 23545), (547, 23638), (591, 23884), (626, 24100), (637, 24184), (643, 24217),

Gene: Rinkes_33 Start: 31333, Stop: 33816, Start Num: 47

Candidate Starts for Rinkes_33:

(Start: 47 @31333 has 6 MA's), (51, 31342), (77, 31429), (79, 31435), (85, 31447), (92, 31462), (112, 31504), (114, 31507), (149, 31570), (198, 31708), (210, 31747), (213, 31765), (223, 31807), (224, 31810), (243, 31909), (260, 31984), (264, 32011), (265, 32014), (270, 32035), (273, 32047), (320, 32209), (322, 32218), (324, 32224), (332, 32266), (333, 32269), (348, 32347), (356, 32380), (367, 32413), (374, 32431), (385, 32488), (396, 32557), (401, 32593), (436, 32758), (438, 32773), (451, 32839), (457, 32872), (458, 32881), (478, 32968), (490, 33028), (494, 33052), (505, 33097), (506, 33100), (509, 33118), (528, 33199), (565, 33421), (566, 33430), (623, 33754),

Gene: Rita_18 Start: 17410, Stop: 19947, Start Num: 43

Candidate Starts for Rita_18:

(Start: 43 @17410 has 236 MA's), (83, 17500), (109, 17560), (113, 17569), (115, 17572), (124, 17590), (143, 17638), (159, 17683), (194, 17797), (195, 17800), (208, 17830), (211, 17842), (212, 17845), (229, 17923), (233, 17947), (246, 18013), (255, 18058), (260, 18088), (261, 18094), (263, 18112), (272, 18136), (274, 18145), (291, 18178), (293, 18184), (301, 18214), (315, 18253), (316, 18265), (319, 18274), (323, 18289), (324, 18292), (346, 18403), (347, 18406), (348, 18415), (349, 18421), (352, 18436), (354, 18439), (362, 18460), (372, 18490), (375, 18502), (381, 18535), (399, 18646), (400, 18649), (405, 18676), (407, 18682), (420, 18736), (421, 18739), (445, 18841), (447, 18853), (448, 18856), (459, 18922), (464, 18946), (467, 18967), (469, 18976), (482, 19036), (483, 19039), (491, 19075), (494, 19093), (499, 19105), (501, 19114), (507, 19141), (522, 19210), (525, 19228), (528, 19237), (530, 19249), (536, 19285), (544, 19315), (549, 19336), (556, 19360), (559, 19396), (565, 19450), (576, 19510), (581, 19552), (601, 19630), (612, 19687), (616, 19711), (622, 19765), (626, 19813), (634, 19855), (636, 19879), (637, 19882),

Gene: RitaG_18 Start: 17539, Stop: 20091, Start Num: 43

Candidate Starts for RitaG_18:

(Start: 43 @17539 has 236 MA's), (52, 17560), (Start: 60 @17581 has 1 MA's), (75, 17620), (109, 17689), (113, 17698), (115, 17701), (124, 17719), (138, 17752), (143, 17767), (160, 17815), (194, 17926), (195, 17929), (209, 17962), (211, 17971), (212, 17974), (229, 18052), (240, 18118), (247, 18151), (258, 18205), (260, 18217), (272, 18265), (274, 18274), (275, 18283), (294, 18316), (310, 18358), (314, 18373), (321, 18403), (322, 18409), (323, 18412), (324, 18415), (330, 18442), (334, 18463), (341, 18496), (348, 18538), (349, 18544), (350, 18547), (352, 18559), (354, 18562), (363, 18589), (372, 18613), (375, 18625), (381, 18658), (385, 18679), (397, 18751), (400, 18772), (426, 18883), (433, 18907), (434, 18910), (439, 18934), (445, 18964), (450, 18988), (456, 19024), (457, 19030), (458, 19039), (473, 19129), (478, 19153), (479, 19168), (489, 19210), (491, 19216), (502, 19261), (523, 19357), (525, 19372), (528, 19381), (533, 19405), (547, 19468), (565, 19594), (609, 19810), (616, 19855), (626, 19957), (640, 20035),

Gene: RiverMonster_26 Start: 22039, Stop: 24435, Start Num: 80

Candidate Starts for RiverMonster_26:

(Start: 80 @22039 has 128 MA's), (157, 22216), (162, 22237), (220, 22384), (254, 22558), (260, 22591), (268, 22627), (301, 22720), (319, 22780), (324, 22798), (350, 22930), (364, 22975), (393, 23107), (399, 23152), (416, 23212), (442, 23326), (445, 23347), (453, 23386), (456, 23407), (458, 23422), (489, 23572), (491, 23578), (494, 23596), (508, 23650), (525, 23734), (547, 23827), (591, 24073), (626, 24289), (637, 24373), (643, 24406),

Gene: Rockne_18 Start: 17383, Stop: 19920, Start Num: 43

Candidate Starts for Rockne_18:

(Start: 43 @17383 has 236 MA's), (83, 17473), (109, 17533), (113, 17542), (115, 17545), (124, 17563), (143, 17611), (160, 17659), (190, 17764), (194, 17770), (195, 17773), (211, 17815), (212, 17818), (233, 17920), (246, 17986), (255, 18031), (260, 18061), (261, 18067), (263, 18085), (272, 18109), (274, 18118), (291, 18151), (293, 18157), (310, 18208), (315, 18226), (316, 18238), (319, 18247), (323, 18262), (325, 18268), (346, 18376), (348, 18388), (349, 18394), (352, 18409), (354, 18412), (362, 18433), (372, 18463), (375, 18475), (381, 18508), (393, 18574), (399, 18619), (400, 18622), (405, 18649), (407, 18655), (420, 18709), (421, 18712), (428, 18739), (445, 18814), (447, 18826), (448, 18829), (459, 18895), (463, 18916), (464, 18919), (469, 18949), (478, 18991), (482, 19009), (483, 19012), (489, 19042), (494, 19066), (499, 19078), (501, 19087), (522, 19183), (525, 19201), (528, 19210), (530, 19222), (544, 19288), (547, 19297), (549, 19309), (559, 19369), (581, 19525), (612, 19660), (616, 19684), (622, 19738), (631, 19807), (636, 19852), (637, 19855),

Gene: RockyHorror_19 Start: 17258, Stop: 19795, Start Num: 43

Candidate Starts for RockyHorror_19:

(Start: 43 @17258 has 236 MA's), (52, 17279), (Start: 60 @17300 has 1 MA's), (75, 17339), (109, 17408), (113, 17417), (115, 17420), (124, 17438), (143, 17486), (190, 17639), (195, 17648), (212,

17693), (232, 17792), (233, 17795), (246, 17861), (260, 17936), (261, 17942), (263, 17960), (272, 17984), (273, 17990), (274, 17993), (291, 18026), (293, 18032), (301, 18062), (310, 18083), (316, 18113), (319, 18122), (323, 18137), (324, 18140), (346, 18251), (347, 18254), (348, 18263), (349, 18269), (352, 18284), (354, 18287), (362, 18308), (372, 18338), (375, 18350), (381, 18383), (399, 18494), (400, 18497), (405, 18524), (407, 18530), (420, 18584), (421, 18587), (443, 18674), (445, 18689), (447, 18701), (448, 18704), (459, 18770), (464, 18794), (467, 18815), (469, 18824), (482, 18884), (483, 18887), (491, 18923), (494, 18941), (499, 18953), (501, 18962), (507, 18989), (521, 19046), (522, 19058), (525, 19076), (528, 19085), (530, 19097), (536, 19133), (544, 19163), (547, 19172), (549, 19184), (559, 19244), (565, 19298), (576, 19358), (581, 19400), (612, 19535), (616, 19559), (622, 19613), (626, 19661), (634, 19703), (636, 19727), (637, 19730),

Gene: Rosmarinus_27 Start: 20900, Stop: 23332, Start Num: 88

Candidate Starts for Rosmarinus_27:

(Start: 88 @20900 has 96 MA's), (132, 20999), (218, 21260), (223, 21281), (263, 21488), (272, 21521), (276, 21551), (297, 21623), (303, 21647), (346, 21845), (353, 21890), (356, 21902), (360, 21911), (375, 21962), (406, 22142), (410, 22157), (424, 22226), (428, 22238), (440, 22301), (448, 22343), (456, 22382), (457, 22388), (458, 22397), (462, 22418), (475, 22478), (501, 22595), (509, 22637), (527, 22709), (529, 22718), (534, 22739), (548, 22811), (553, 22832), (565, 22928), (594, 23075), (610, 23156), (626, 23303),

Gene: Royals2015_18 Start: 17417, Stop: 19948, Start Num: 43

Candidate Starts for Royals2015_18:

(Start: 43 @17417 has 236 MA's), (52, 17438), (83, 17507), (109, 17567), (113, 17576), (115, 17579), (124, 17597), (138, 17630), (143, 17645), (159, 17690), (194, 17804), (195, 17807), (199, 17819), (210, 17840), (211, 17849), (212, 17852), (229, 17930), (240, 17996), (247, 18029), (255, 18065), (259, 18089), (273, 18149), (274, 18152), (279, 18170), (307, 18233), (309, 18236), (315, 18254), (319, 18275), (324, 18293), (330, 18320), (334, 18341), (341, 18374), (349, 18422), (350, 18425), (352, 18437), (354, 18440), (362, 18461), (372, 18491), (375, 18503), (381, 18536), (393, 18602), (399, 18647), (400, 18650), (405, 18677), (407, 18683), (420, 18737), (421, 18740), (428, 18767), (445, 18842), (447, 18854), (448, 18857), (459, 18923), (464, 18947), (469, 18977), (478, 19019), (482, 19037), (483, 19040), (491, 19076), (494, 19094), (501, 19115), (507, 19142), (522, 19211), (525, 19229), (528, 19238), (530, 19250), (536, 19286), (549, 19337), (554, 19355), (559, 19397), (565, 19451), (581, 19553), (601, 19631), (612, 19688), (616, 19712), (622, 19766), (626, 19814), (636, 19880), (637, 19883),

Gene: Ruby_18 Start: 17371, Stop: 19908, Start Num: 43

Candidate Starts for Ruby_18:

(Start: 43 @17371 has 236 MA's), (52, 17392), (Start: 60 @17413 has 1 MA's), (75, 17452), (109, 17521), (113, 17530), (115, 17533), (124, 17551), (138, 17584), (143, 17599), (190, 17752), (195, 17761), (212, 17806), (232, 17905), (233, 17908), (246, 17974), (260, 18049), (261, 18055), (272, 18097), (273, 18103), (274, 18106), (291, 18139), (293, 18145), (301, 18175), (310, 18196), (316, 18226), (319, 18235), (323, 18250), (324, 18253), (346, 18364), (347, 18367), (348, 18376), (349, 18382), (352, 18397), (354, 18400), (362, 18421), (372, 18451), (375, 18463), (381, 18496), (399, 18607), (400, 18610), (405, 18637), (407, 18643), (420, 18697), (421, 18700), (443, 18787), (445, 18802), (447, 18814), (448, 18817), (459, 18883), (464, 18907), (467, 18928), (469, 18937), (478, 18979), (482, 18997), (483, 19000), (489, 19030), (494, 19054), (499, 19066), (501, 19075), (522, 19171), (525, 19189), (528, 19198), (530, 19210), (536, 19246), (544, 19276), (547, 19285), (549, 19297), (559, 19357), (565, 19411), (576, 19471), (581, 19513), (612, 19648), (616, 19672), (622, 19726), (626, 19774), (634, 19816), (636, 19840), (637, 19843),

Gene: Ryadel_62 Start: 36906, Stop: 39416, Start Num: 57

Candidate Starts for Ryadel_62:

(Start: 57 @36906 has 33 MA's), (69, 36939), (93, 37008), (95, 37011), (106, 37035), (115, 37059), (126, 37083), (138, 37116), (200, 37323), (203, 37335), (204, 37338), (237, 37485), (240, 37515), (246, 37539), (255, 37569), (256, 37572), (260, 37599), (263, 37623), (273, 37653), (296, 37710), (315, 37770), (316, 37782), (323, 37806), (324, 37809), (332, 37851), (352, 37947), (354, 37950), (413, 38205), (445, 38349), (456, 38409), (466, 38481), (467, 38484), (488, 38580), (525, 38754), (528, 38763), (530, 38775), (552, 38868), (555, 38880), (565, 38970), (579, 39045), (598, 39090), (630, 39291), (635, 39345), (640, 39360),

Gene: SG4_18 Start: 17548, Stop: 20085, Start Num: 43

Candidate Starts for SG4_18:

(Start: 43 @17548 has 236 MA's), (52, 17569), (Start: 60 @17590 has 1 MA's), (74, 17626), (75, 17629), (109, 17698), (113, 17707), (115, 17710), (124, 17728), (138, 17761), (143, 17776), (160, 17824), (194, 17935), (195, 17938), (208, 17968), (211, 17980), (212, 17983), (229, 18061), (233, 18085), (246, 18151), (255, 18196), (260, 18226), (261, 18232), (263, 18250), (272, 18274), (274, 18283), (291, 18316), (293, 18322), (310, 18373), (315, 18391), (316, 18403), (319, 18412), (323, 18427), (324, 18430), (346, 18541), (347, 18544), (348, 18553), (349, 18559), (352, 18574), (354, 18577), (362, 18598), (372, 18628), (375, 18640), (381, 18673), (393, 18739), (399, 18784), (400, 18787), (405, 18814), (407, 18820), (420, 18874), (421, 18877), (445, 18979), (447, 18991), (448, 18994), (459, 19060), (464, 19084), (467, 19105), (469, 19114), (482, 19174), (483, 19177), (491, 19213), (494, 19231), (499, 19243), (501, 19252), (507, 19279), (522, 19348), (525, 19366), (528, 19375), (530, 19387), (536, 19423), (544, 19453), (549, 19474), (556, 19498), (559, 19534), (565, 19588), (576, 19648), (581, 19690), (612, 19825), (616, 19849), (622, 19903), (626, 19951), (636, 20017), (637, 20020),

Gene: Saal_18 Start: 17383, Stop: 19920, Start Num: 43

Candidate Starts for Saal_18:

(Start: 43 @17383 has 236 MA's), (52, 17404), (Start: 60 @17425 has 1 MA's), (75, 17464), (109, 17533), (113, 17542), (115, 17545), (124, 17563), (143, 17611), (190, 17764), (195, 17773), (212, 17818), (229, 17896), (233, 17920), (246, 17986), (255, 18031), (260, 18061), (261, 18067), (263, 18085), (272, 18109), (274, 18118), (291, 18151), (293, 18157), (301, 18187), (315, 18226), (319, 18247), (323, 18262), (324, 18265), (347, 18379), (348, 18388), (349, 18394), (354, 18412), (362, 18433), (372, 18463), (375, 18475), (381, 18508), (399, 18619), (400, 18622), (405, 18649), (407, 18655), (420, 18709), (421, 18712), (443, 18799), (445, 18814), (448, 18829), (464, 18919), (467, 18940), (469, 18949), (482, 19009), (483, 19012), (491, 19048), (494, 19066), (499, 19078), (501, 19087), (507, 19114), (522, 19183), (525, 19201), (528, 19210), (530, 19222), (536, 19258), (544, 19288), (549, 19309), (556, 19333), (559, 19369), (565, 19423), (581, 19525), (601, 19603), (612, 19660), (616, 19684), (622, 19738), (626, 19786), (634, 19828), (639, 19861), (640, 19864),

Gene: Sabbb_19 Start: 17625, Stop: 20168, Start Num: 43

Candidate Starts for Sabbb_19:

(Start: 43 @17625 has 236 MA's), (52, 17646), (Start: 60 @17667 has 1 MA's), (75, 17706), (109, 17775), (113, 17784), (115, 17787), (124, 17805), (143, 17853), (160, 17901), (194, 18012), (195, 18015), (210, 18048), (212, 18060), (229, 18138), (240, 18204), (247, 18237), (258, 18291), (260, 18303), (273, 18357), (274, 18360), (275, 18369), (294, 18402), (308, 18441), (310, 18444), (314, 18459), (315, 18462), (321, 18489), (322, 18495), (323, 18498), (324, 18501), (330, 18528), (333, 18546), (334, 18549), (348, 18624), (352, 18645), (354, 18648), (363, 18675), (372, 18699), (381, 18744), (382, 18747), (390, 18798), (400, 18861), (401, 18870), (407, 18894), (434, 18999), (435, 19002), (445, 19053), (446, 19059), (447, 19065), (448, 19068), (456, 19113), (458, 19128), (463, 19155), (467, 19179), (478, 19230), (482, 19248), (483, 19251), (484, 19263), (499, 19317), (525, 19440), (538, 19503), (554, 19566), (561, 19641), (603, 19842), (633, 20070), (639, 20109), (640, 20112),

Gene: Saints25_27 Start: 21945, Stop: 24341, Start Num: 80

Candidate Starts for Saints25_27:

(Start: 80 @21945 has 128 MA's), (157, 22122), (162, 22143), (220, 22290), (247, 22431), (254, 22464), (260, 22497), (268, 22533), (301, 22626), (319, 22686), (324, 22704), (350, 22836), (364, 22881), (393, 23013), (399, 23058), (416, 23118), (442, 23232), (445, 23253), (453, 23292), (456, 23313), (458, 23328), (489, 23478), (491, 23484), (494, 23502), (508, 23556), (525, 23640), (547, 23733), (591, 23979), (626, 24195), (637, 24279), (643, 24312),

Gene: SamuelLPlaqson_27 Start: 20840, Stop: 23272, Start Num: 88

Candidate Starts for SamuelLPlaqson_27:

(81, 20822), (Start: 88 @20840 has 96 MA's), (109, 20888), (132, 20939), (218, 21200), (223, 21221), (271, 21458), (272, 21461), (276, 21491), (277, 21494), (297, 21563), (303, 21587), (304, 21593), (308, 21599), (316, 21632), (346, 21785), (356, 21842), (360, 21851), (375, 21902), (406, 22082), (410, 22097), (424, 22166), (428, 22178), (434, 22214), (440, 22241), (448, 22283), (456, 22322), (457, 22328), (458, 22337), (462, 22358), (475, 22418), (482, 22451), (485, 22469), (501, 22535), (509, 22577), (527, 22649), (529, 22658), (534, 22679), (548, 22751), (565, 22868), (594, 23015), (610, 23096), (619, 23171), (626, 23243),

Gene: Sandalphon_19 Start: 17954, Stop: 20491, Start Num: 43

Candidate Starts for Sandalphon_19:

(35, 17942), (Start: 43 @17954 has 236 MA's), (52, 17975), (Start: 60 @17996 has 1 MA's), (75, 18035), (109, 18104), (113, 18113), (115, 18116), (138, 18167), (143, 18182), (160, 18230), (194, 18341), (195, 18344), (208, 18374), (211, 18386), (212, 18389), (229, 18467), (233, 18491), (246, 18557), (255, 18602), (260, 18632), (261, 18638), (263, 18656), (272, 18680), (274, 18689), (291, 18722), (293, 18728), (301, 18758), (315, 18797), (316, 18809), (319, 18818), (323, 18833), (324, 18836), (346, 18947), (347, 18950), (348, 18959), (349, 18965), (352, 18980), (354, 18983), (362, 19004), (372, 19034), (375, 19046), (381, 19079), (399, 19190), (400, 19193), (405, 19220), (407, 19226), (420, 19280), (421, 19283), (445, 19385), (447, 19397), (448, 19400), (459, 19466), (464, 19490), (467, 19511), (469, 19520), (482, 19580), (483, 19583), (491, 19619), (494, 19637), (499, 19649), (501, 19658), (507, 19685), (522, 19754), (525, 19772), (528, 19781), (530, 19793), (536, 19829), (544, 19859), (549, 19880), (556, 19904), (559, 19940), (565, 19994), (576, 20054), (581, 20096), (601, 20174), (612, 20231), (616, 20255), (622, 20309), (626, 20357), (634, 20399), (636, 20423), (637, 20426),

Gene: Sassafra_18 Start: 17532, Stop: 20069, Start Num: 43

Candidate Starts for Sassafra_18:

(Start: 43 @17532 has 236 MA's), (52, 17553), (Start: 60 @17574 has 1 MA's), (75, 17613), (109, 17682), (113, 17691), (115, 17694), (124, 17712), (143, 17760), (160, 17808), (194, 17919), (195, 17922), (212, 17967), (229, 18045), (233, 18069), (246, 18135), (260, 18210), (261, 18216), (263, 18234), (272, 18258), (274, 18267), (291, 18300), (293, 18306), (301, 18336), (310, 18357), (316, 18387), (319, 18396), (342, 18504), (345, 18516), (346, 18525), (347, 18528), (349, 18543), (352, 18558), (354, 18561), (362, 18582), (375, 18624), (381, 18657), (399, 18768), (400, 18771), (405, 18798), (407, 18804), (420, 18858), (421, 18861), (428, 18888), (445, 18963), (447, 18975), (448, 18978), (459, 19044), (463, 19065), (464, 19068), (467, 19089), (469, 19098), (478, 19140), (482, 19158), (483, 19161), (489, 19191), (494, 19215), (499, 19227), (501, 19236), (522, 19332), (525, 19350), (528, 19359), (530, 19371), (536, 19407), (544, 19437), (547, 19446), (549, 19458), (559, 19518), (565, 19572), (576, 19632), (581, 19674), (612, 19809), (616, 19833), (622, 19887), (626, 19935), (634, 19977), (636, 20001), (637, 20004),

Gene: Sassay_25 Start: 21788, Stop: 24184, Start Num: 80

Candidate Starts for Sassay_25:

(Start: 80 @21788 has 128 MA's), (157, 21965), (162, 21986), (220, 22133), (247, 22274), (254, 22307), (260, 22340), (268, 22376), (301, 22469), (319, 22529), (324, 22547), (350, 22679), (364, 22724), (393, 22856), (399, 22901), (416, 22961), (442, 23075), (445, 23096), (453, 23135), (456,

23156), (458, 23171), (489, 23321), (491, 23327), (494, 23345), (508, 23399), (525, 23483), (547, 23576), (591, 23822), (626, 24038), (637, 24122), (643, 24155),

Gene: SassyB_18 Start: 17445, Stop: 19982, Start Num: 43

Candidate Starts for SassyB_18:

(35, 17433), (Start: 43 @17445 has 236 MA's), (52, 17466), (Start: 60 @17487 has 1 MA's), (75, 17526), (109, 17595), (113, 17604), (115, 17607), (124, 17625), (138, 17658), (143, 17673), (194, 17832), (195, 17835), (212, 17880), (229, 17958), (233, 17982), (246, 18048), (260, 18123), (261, 18129), (263, 18147), (272, 18171), (273, 18177), (274, 18180), (291, 18213), (293, 18219), (301, 18249), (310, 18270), (316, 18300), (319, 18309), (337, 18390), (348, 18450), (349, 18456), (352, 18471), (354, 18474), (362, 18495), (375, 18537), (381, 18570), (382, 18573), (405, 18711), (407, 18717), (420, 18771), (421, 18774), (428, 18801), (445, 18876), (447, 18888), (448, 18891), (459, 18957), (464, 18981), (467, 19002), (469, 19011), (482, 19071), (483, 19074), (491, 19110), (494, 19128), (501, 19149), (522, 19245), (525, 19263), (528, 19272), (530, 19284), (536, 19320), (544, 19350), (559, 19431), (565, 19485), (581, 19587), (612, 19722), (616, 19746), (622, 19800), (626, 19848), (634, 19890), (636, 19914), (637, 19917),

Gene: Scarlett_26 Start: 20115, Stop: 22574, Start Num: 88

Candidate Starts for Scarlett_26:

(Start: 88 @20115 has 96 MA's), (109, 20163), (159, 20286), (180, 20343), (185, 20355), (212, 20448), (216, 20472), (228, 20523), (261, 20685), (283, 20796), (290, 20835), (297, 20859), (329, 20982), (342, 21054), (358, 21141), (379, 21222), (397, 21324), (406, 21378), (419, 21438), (436, 21516), (437, 21528), (440, 21537), (448, 21579), (456, 21624), (458, 21639), (477, 21726), (481, 21750), (490, 21789), (496, 21822), (509, 21879), (534, 21990), (537, 22014), (543, 22035), (554, 22086), (570, 22215), (595, 22320), (626, 22545),

Gene: SchoolBus_58 Start: 36090, Stop: 38600, Start Num: 57

Candidate Starts for SchoolBus_58:

(Start: 57 @36090 has 33 MA's), (69, 36123), (93, 36192), (95, 36195), (106, 36219), (115, 36243), (126, 36267), (138, 36300), (200, 36507), (203, 36519), (204, 36522), (237, 36669), (240, 36699), (246, 36723), (255, 36753), (256, 36756), (260, 36783), (263, 36807), (273, 36837), (296, 36894), (302, 36918), (315, 36954), (316, 36966), (323, 36990), (324, 36993), (332, 37035), (352, 37131), (354, 37134), (413, 37389), (445, 37533), (456, 37593), (466, 37665), (467, 37668), (488, 37764), (525, 37938), (530, 37959), (552, 38052), (555, 38064), (565, 38154), (579, 38229), (598, 38274), (630, 38475), (635, 38529), (640, 38544),

Gene: Schuy_59 Start: 35881, Stop: 38391, Start Num: 57

Candidate Starts for Schuy_59:

(Start: 57 @35881 has 33 MA's), (69, 35914), (93, 35983), (95, 35986), (106, 36010), (115, 36034), (126, 36058), (138, 36091), (200, 36298), (203, 36310), (204, 36313), (237, 36460), (240, 36490), (246, 36514), (255, 36544), (256, 36547), (260, 36574), (263, 36598), (273, 36628), (296, 36685), (302, 36709), (315, 36745), (316, 36757), (323, 36781), (324, 36784), (332, 36826), (352, 36922), (354, 36925), (413, 37180), (445, 37324), (456, 37384), (466, 37456), (467, 37459), (488, 37555), (525, 37729), (530, 37750), (552, 37843), (555, 37855), (565, 37945), (579, 38020), (598, 38065), (630, 38266), (635, 38320), (640, 38335),

Gene: Scottish_19 Start: 18701, Stop: 21238, Start Num: 43

Candidate Starts for Scottish_19:

(35, 18689), (Start: 43 @18701 has 236 MA's), (52, 18722), (Start: 60 @18743 has 1 MA's), (75, 18782), (109, 18851), (113, 18860), (115, 18863), (124, 18881), (143, 18929), (160, 18977), (194, 19088), (195, 19091), (212, 19136), (229, 19214), (233, 19238), (246, 19304), (255, 19349), (260, 19379), (261, 19385), (263, 19403), (272, 19427), (274, 19436), (291, 19469), (293, 19475), (301, 19505), (315, 19544), (316, 19556), (319, 19565), (323, 19580), (324, 19583), (346, 19694), (347,

19697), (348, 19706), (349, 19712), (352, 19727), (354, 19730), (362, 19751), (372, 19781), (375, 19793), (381, 19826), (399, 19937), (400, 19940), (405, 19967), (407, 19973), (420, 20027), (421, 20030), (445, 20132), (447, 20144), (448, 20147), (459, 20213), (464, 20237), (467, 20258), (469, 20267), (482, 20327), (483, 20330), (491, 20366), (494, 20384), (501, 20405), (507, 20432), (522, 20501), (525, 20519), (528, 20528), (530, 20540), (536, 20576), (549, 20627), (554, 20645), (559, 20687), (565, 20741), (581, 20843), (612, 20978), (616, 21002), (622, 21056), (631, 21125), (636, 21170), (637, 21173),

Gene: SeaLumen_19 Start: 17446, Stop: 19983, Start Num: 43

Candidate Starts for SeaLumen_19:

(Start: 43 @17446 has 236 MA's), (52, 17467), (Start: 60 @17488 has 1 MA's), (74, 17524), (75, 17527), (109, 17596), (113, 17605), (115, 17608), (124, 17626), (138, 17659), (143, 17674), (160, 17722), (190, 17827), (194, 17833), (195, 17836), (211, 17878), (212, 17881), (233, 17983), (246, 18049), (255, 18094), (260, 18124), (261, 18130), (263, 18148), (272, 18172), (274, 18181), (291, 18214), (293, 18220), (310, 18271), (315, 18289), (316, 18301), (319, 18310), (323, 18325), (325, 18331), (346, 18439), (348, 18451), (349, 18457), (352, 18472), (354, 18475), (362, 18496), (372, 18526), (375, 18538), (381, 18571), (393, 18637), (399, 18682), (400, 18685), (405, 18712), (407, 18718), (420, 18772), (421, 18775), (443, 18862), (445, 18877), (447, 18889), (448, 18892), (459, 18958), (467, 19003), (469, 19012), (482, 19072), (483, 19075), (491, 19111), (494, 19129), (499, 19141), (501, 19150), (507, 19177), (522, 19246), (525, 19264), (528, 19273), (530, 19285), (536, 19321), (544, 19351), (549, 19372), (556, 19396), (559, 19432), (565, 19486), (576, 19546), (581, 19588), (601, 19666), (612, 19723), (616, 19747), (622, 19801), (626, 19849), (634, 19891), (636, 19915), (637, 19918),

Gene: Seabastian_18 Start: 17634, Stop: 20171, Start Num: 43

Candidate Starts for Seabastian_18:

(Start: 43 @17634 has 236 MA's), (52, 17655), (Start: 60 @17676 has 1 MA's), (75, 17715), (109, 17784), (113, 17793), (115, 17796), (124, 17814), (143, 17862), (194, 18021), (195, 18024), (211, 18066), (212, 18069), (229, 18147), (232, 18168), (233, 18171), (246, 18237), (247, 18246), (255, 18282), (260, 18312), (261, 18318), (272, 18360), (273, 18366), (274, 18369), (291, 18402), (293, 18408), (301, 18438), (310, 18459), (316, 18489), (319, 18498), (342, 18606), (345, 18618), (346, 18627), (347, 18630), (348, 18639), (349, 18645), (352, 18660), (354, 18663), (362, 18684), (375, 18726), (381, 18759), (405, 18900), (407, 18906), (420, 18960), (421, 18963), (428, 18990), (445, 19065), (447, 19077), (448, 19080), (459, 19146), (463, 19167), (464, 19170), (467, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (499, 19329), (522, 19434), (525, 19452), (528, 19461), (530, 19473), (536, 19509), (544, 19539), (549, 19560), (556, 19584), (559, 19620), (576, 19734), (581, 19776), (601, 19854), (612, 19911), (616, 19935), (622, 19989), (626, 20037), (634, 20079), (636, 20103), (637, 20106),

Gene: Seagreen_19 Start: 17241, Stop: 19778, Start Num: 43

Candidate Starts for Seagreen_19:

(35, 17229), (Start: 43 @17241 has 236 MA's), (52, 17262), (Start: 60 @17283 has 1 MA's), (75, 17322), (109, 17391), (113, 17400), (115, 17403), (124, 17421), (138, 17454), (143, 17469), (160, 17517), (190, 17622), (194, 17628), (195, 17631), (211, 17673), (212, 17676), (229, 17754), (233, 17778), (246, 17844), (255, 17889), (260, 17919), (261, 17925), (263, 17943), (272, 17967), (274, 17976), (291, 18009), (293, 18015), (301, 18045), (315, 18084), (316, 18096), (319, 18105), (323, 18120), (324, 18123), (346, 18234), (347, 18237), (348, 18246), (349, 18252), (352, 18267), (354, 18270), (362, 18291), (372, 18321), (375, 18333), (381, 18366), (399, 18477), (400, 18480), (405, 18507), (407, 18513), (420, 18567), (421, 18570), (445, 18672), (447, 18684), (448, 18687), (459, 18753), (464, 18777), (467, 18798), (469, 18807), (482, 18867), (483, 18870), (491, 18906), (494, 18924), (499, 18936), (501, 18945), (507, 18972), (522, 19041), (525, 19059), (528, 19068), (530, 19080), (536, 19116), (544, 19146), (549, 19167), (556, 19191), (559, 19227), (565, 19281), (576, 19341), (581, 19383), (601, 19461), (612, 19518), (616, 19542), (622, 19596), (626, 19644), (634,

19686), (636, 19710), (637, 19713),

Gene: Shaboozey_30 Start: 25923, Stop: 28418, Start Num: 43

Candidate Starts for Shaboozey_30:

(Start: 43 @25923 has 236 MA's), (124, 26118), (138, 26154), (143, 26169), (179, 26256), (184, 26271), (195, 26307), (197, 26313), (212, 26346), (215, 26358), (252, 26529), (255, 26538), (260, 26562), (273, 26616), (291, 26652), (293, 26658), (301, 26688), (312, 26718), (316, 26739), (319, 26748), (323, 26763), (338, 26832), (354, 26913), (357, 26922), (364, 26943), (365, 26946), (375, 26976), (382, 27012), (390, 27063), (391, 27072), (393, 27075), (397, 27102), (398, 27111), (401, 27132), (420, 27210), (421, 27213), (439, 27285), (446, 27321), (447, 27327), (455, 27369), (456, 27375), (463, 27417), (464, 27420), (467, 27441), (468, 27447), (469, 27450), (476, 27480), (506, 27621), (508, 27630), (509, 27639), (517, 27672), (522, 27696), (523, 27699), (525, 27714), (530, 27735), (536, 27771), (538, 27777), (540, 27783), (545, 27804), (552, 27831), (569, 27966), (580, 28038), (582, 28044), (591, 28062), (612, 28161), (626, 28278), (638, 28359), (640, 28362), (643, 28389),

Gene: ShamWow_26 Start: 22284, Stop: 24680, Start Num: 80

Candidate Starts for ShamWow_26:

(Start: 80 @22284 has 128 MA's), (157, 22461), (162, 22482), (220, 22629), (247, 22770), (254, 22803), (260, 22836), (268, 22872), (301, 22965), (319, 23025), (324, 23043), (357, 23199), (364, 23220), (390, 23340), (393, 23352), (399, 23397), (445, 23592), (448, 23607), (456, 23652), (458, 23667), (491, 23823), (494, 23841), (497, 23850), (525, 23979), (526, 23982), (564, 24192), (566, 24204), (591, 24318), (626, 24534), (637, 24618), (641, 24642), (643, 24651),

Gene: Shauna1_18 Start: 17450, Stop: 19927, Start Num: 43

Candidate Starts for Shauna1_18:

(36, 17438), (Start: 43 @17450 has 236 MA's), (52, 17471), (Start: 60 @17492 has 1 MA's), (77, 17531), (109, 17600), (113, 17609), (115, 17612), (124, 17630), (138, 17663), (143, 17678), (179, 17765), (184, 17780), (195, 17816), (197, 17822), (212, 17855), (215, 17867), (252, 18038), (255, 18047), (260, 18071), (273, 18125), (291, 18161), (293, 18167), (301, 18197), (312, 18227), (316, 18248), (319, 18257), (338, 18341), (349, 18404), (354, 18422), (357, 18431), (364, 18452), (365, 18455), (372, 18473), (375, 18485), (380, 18512), (382, 18521), (390, 18572), (391, 18581), (393, 18584), (397, 18611), (398, 18620), (401, 18641), (420, 18719), (421, 18722), (446, 18830), (447, 18836), (456, 18884), (463, 18926), (464, 18929), (467, 18950), (468, 18956), (469, 18959), (476, 18989), (506, 19130), (509, 19148), (517, 19181), (522, 19205), (523, 19208), (525, 19223), (530, 19244), (536, 19280), (538, 19286), (545, 19313), (552, 19340), (569, 19475), (578, 19523), (580, 19547), (591, 19571), (612, 19670), (615, 19691), (617, 19709), (626, 19787), (631, 19808), (640, 19871), (641, 19889), (644, 19907),

Gene: ShereKhan_28 Start: 23267, Stop: 25663, Start Num: 80

Candidate Starts for ShereKhan_28:

(Start: 80 @23267 has 128 MA's), (157, 23444), (162, 23465), (220, 23612), (247, 23753), (254, 23786), (260, 23819), (268, 23855), (301, 23948), (319, 24008), (324, 24026), (350, 24158), (364, 24203), (393, 24335), (399, 24380), (416, 24440), (442, 24554), (445, 24575), (453, 24614), (456, 24635), (458, 24650), (489, 24800), (491, 24806), (494, 24824), (508, 24878), (525, 24962), (547, 25055), (591, 25301), (626, 25517), (637, 25601), (643, 25634),

Gene: ShiLan_18 Start: 17405, Stop: 19957, Start Num: 43

Candidate Starts for ShiLan_18:

(Start: 43 @17405 has 236 MA's), (75, 17486), (109, 17555), (113, 17564), (115, 17567), (124, 17585), (143, 17633), (159, 17678), (194, 17792), (195, 17795), (199, 17807), (209, 17828), (211, 17837), (212, 17840), (223, 17888), (229, 17918), (240, 17984), (247, 18017), (255, 18053), (259, 18077), (273, 18137), (274, 18140), (279, 18158), (308, 18221), (310, 18224), (315, 18242), (319, 18263),

(324, 18281), (330, 18308), (334, 18329), (341, 18362), (348, 18404), (349, 18410), (350, 18413), (354, 18428), (363, 18455), (364, 18458), (372, 18479), (375, 18491), (381, 18524), (397, 18617), (420, 18725), (426, 18749), (428, 18755), (433, 18773), (434, 18776), (439, 18800), (445, 18830), (450, 18854), (456, 18890), (457, 18896), (458, 18905), (463, 18932), (473, 18995), (478, 19019), (479, 19034), (489, 19076), (502, 19127), (523, 19223), (525, 19238), (528, 19247), (533, 19271), (547, 19334), (556, 19370), (609, 19676), (616, 19721), (626, 19823),

Gene: ShiaSurprise_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for ShiaSurprise_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Shida_58 Start: 35788, Stop: 38298, Start Num: 57

Candidate Starts for Shida_58:

(Start: 57 @35788 has 33 MA's), (69, 35821), (93, 35890), (95, 35893), (106, 35917), (115, 35941), (126, 35965), (138, 35998), (200, 36205), (203, 36217), (204, 36220), (237, 36367), (240, 36397), (246, 36421), (255, 36451), (256, 36454), (260, 36481), (263, 36505), (273, 36535), (296, 36592), (315, 36652), (316, 36664), (323, 36688), (324, 36691), (332, 36733), (352, 36829), (354, 36832), (413, 37087), (445, 37231), (456, 37291), (466, 37363), (467, 37366), (488, 37462), (525, 37636), (530, 37657), (552, 37750), (555, 37762), (565, 37852), (579, 37927), (598, 37972), (630, 38173), (635, 38227), (640, 38242),

Gene: Shipwreck_20 Start: 18739, Stop: 21243, Start Num: 57

Candidate Starts for Shipwreck_20:

(Start: 57 @18739 has 33 MA's), (115, 18892), (232, 19297), (237, 19312), (240, 19342), (242, 19348), (246, 19366), (272, 19474), (293, 19525), (324, 19636), (325, 19639), (332, 19678), (341, 19711), (354, 19777), (375, 19837), (380, 19864), (381, 19870), (445, 20176), (456, 20236), (462, 20284), (463, 20287), (466, 20308), (467, 20311), (525, 20572), (554, 20695), (555, 20698), (565, 20788), (576, 20845), (579, 20866), (603, 20926), (632, 21127), (635, 21169),

Gene: ShowerHandel_18 Start: 17406, Stop: 19958, Start Num: 43

Candidate Starts for ShowerHandel_18:

(Start: 43 @17406 has 236 MA's), (75, 17487), (109, 17556), (113, 17565), (115, 17568), (124, 17586), (143, 17634), (159, 17679), (194, 17793), (195, 17796), (199, 17808), (209, 17829), (211, 17838), (212, 17841), (223, 17889), (229, 17919), (240, 17985), (247, 18018), (255, 18054), (259, 18078), (273, 18138), (274, 18141), (279, 18159), (308, 18222), (310, 18225), (315, 18243), (319, 18264), (324, 18282), (330, 18309), (334, 18330), (341, 18363), (348, 18405), (349, 18411), (350, 18414), (354, 18429), (363, 18456), (364, 18459), (372, 18480), (375, 18492), (381, 18525), (397, 18618), (420, 18726), (426, 18750), (428, 18756), (433, 18774), (434, 18777), (439, 18801), (445, 18831), (450, 18855), (456, 18891), (457, 18897), (458, 18906), (463, 18933), (473, 18996), (478, 19020), (479, 19035), (489, 19077), (502, 19128), (523, 19224), (525, 19239), (528, 19248), (533, 19272), (547, 19335), (556, 19371), (609, 19677), (616, 19722), (626, 19824),

Gene: ShroomBoi_18 Start: 17435, Stop: 19912, Start Num: 43

Candidate Starts for ShroomBoi_18:

(Start: 43 @17435 has 236 MA's), (52, 17456), (Start: 60 @17477 has 1 MA's), (77, 17516), (109, 17585), (113, 17594), (115, 17597), (124, 17615), (143, 17663), (179, 17750), (184, 17765), (195, 17801), (197, 17807), (212, 17840), (215, 17852), (252, 18023), (255, 18032), (260, 18056), (273, 18110), (291, 18146), (293, 18152), (301, 18182), (312, 18212), (316, 18233), (319, 18242), (323,

18257), (338, 18326), (354, 18407), (357, 18416), (365, 18440), (375, 18470), (382, 18506), (390, 18557), (391, 18566), (393, 18569), (397, 18596), (398, 18605), (401, 18626), (420, 18704), (446, 18815), (447, 18821), (456, 18869), (463, 18911), (464, 18914), (467, 18935), (468, 18941), (469, 18944), (476, 18974), (506, 19115), (509, 19133), (517, 19166), (522, 19190), (523, 19193), (525, 19208), (530, 19229), (536, 19265), (538, 19271), (540, 19277), (545, 19298), (552, 19325), (569, 19460), (578, 19508), (580, 19532), (582, 19538), (591, 19556), (612, 19655), (626, 19772), (638, 19853), (640, 19856), (643, 19883),

Gene: SiSi_18 Start: 17389, Stop: 19926, Start Num: 43

Candidate Starts for SiSi_18:

(35, 17377), (Start: 43 @17389 has 236 MA's), (52, 17410), (Start: 60 @17431 has 1 MA's), (75, 17470), (109, 17539), (113, 17548), (115, 17551), (124, 17569), (138, 17602), (143, 17617), (160, 17665), (194, 17776), (195, 17779), (208, 17809), (211, 17821), (212, 17824), (229, 17902), (233, 17926), (246, 17992), (255, 18037), (260, 18067), (261, 18073), (263, 18091), (272, 18115), (274, 18124), (291, 18157), (293, 18163), (301, 18193), (315, 18232), (316, 18244), (319, 18253), (323, 18268), (324, 18271), (346, 18382), (348, 18394), (349, 18400), (352, 18415), (354, 18418), (362, 18439), (372, 18469), (375, 18481), (381, 18514), (393, 18580), (399, 18625), (400, 18628), (405, 18655), (407, 18661), (420, 18715), (421, 18718), (428, 18745), (445, 18820), (447, 18832), (448, 18835), (459, 18901), (464, 18925), (469, 18955), (478, 18997), (482, 19015), (483, 19018), (491, 19054), (494, 19072), (501, 19093), (507, 19120), (522, 19189), (525, 19207), (528, 19216), (530, 19228), (536, 19264), (549, 19315), (554, 19333), (559, 19375), (565, 19429), (576, 19489), (581, 19531), (601, 19609), (612, 19666), (616, 19690), (622, 19744), (626, 19792), (636, 19858), (637, 19861),

Gene: SilverChicken_24 Start: 17093, Stop: 19555, Start Num: 70

Candidate Starts for SilverChicken_24:

(67, 17084), (70, 17093), (104, 17153), (120, 17189), (140, 17234), (144, 17246), (161, 17288), (173, 17315), (178, 17333), (183, 17345), (190, 17378), (193, 17381), (212, 17438), (214, 17447), (222, 17483), (232, 17537), (240, 17582), (246, 17606), (247, 17615), (252, 17642), (274, 17738), (279, 17756), (291, 17771), (293, 17777), (298, 17795), (308, 17819), (321, 17867), (323, 17876), (324, 17879), (334, 17927), (337, 17942), (344, 17978), (345, 17981), (349, 18008), (350, 18011), (352, 18023), (362, 18047), (365, 18059), (372, 18077), (375, 18089), (381, 18122), (385, 18143), (397, 18215), (400, 18236), (426, 18347), (428, 18353), (433, 18371), (434, 18374), (439, 18398), (445, 18428), (450, 18452), (456, 18488), (457, 18494), (458, 18503), (463, 18530), (473, 18593), (478, 18617), (479, 18632), (489, 18674), (491, 18680), (502, 18725), (523, 18821), (525, 18836), (528, 18845), (533, 18869), (547, 18932), (556, 18968), (565, 19058), (609, 19274), (615, 19316), (616, 19319), (626, 19421),

Gene: Simpliphy_27 Start: 22029, Stop: 24425, Start Num: 80

Candidate Starts for Simpliphy_27:

(Start: 80 @22029 has 128 MA's), (157, 22206), (162, 22227), (220, 22374), (254, 22548), (260, 22581), (268, 22617), (301, 22710), (319, 22770), (324, 22788), (350, 22920), (364, 22965), (393, 23097), (399, 23142), (416, 23202), (442, 23316), (445, 23337), (453, 23376), (456, 23397), (458, 23412), (489, 23562), (491, 23568), (494, 23586), (508, 23640), (525, 23724), (547, 23817), (591, 24063), (626, 24279), (637, 24363), (643, 24396),

Gene: SimranZ1_19 Start: 17257, Stop: 19794, Start Num: 43

Candidate Starts for SimranZ1_19:

(Start: 43 @17257 has 236 MA's), (52, 17278), (Start: 60 @17299 has 1 MA's), (75, 17338), (109, 17407), (113, 17416), (115, 17419), (124, 17437), (143, 17485), (194, 17644), (195, 17647), (208, 17677), (211, 17689), (212, 17692), (229, 17770), (233, 17794), (246, 17860), (260, 17935), (261, 17941), (263, 17959), (272, 17983), (274, 17992), (291, 18025), (293, 18031), (301, 18061), (310, 18082), (315, 18100), (316, 18112), (319, 18121), (328, 18154), (346, 18250), (347, 18253), (348,

18262), (349, 18268), (352, 18283), (354, 18286), (362, 18307), (375, 18349), (381, 18382), (393, 18448), (399, 18493), (400, 18496), (405, 18523), (407, 18529), (420, 18583), (421, 18586), (428, 18613), (434, 18634), (445, 18688), (447, 18700), (448, 18703), (459, 18769), (464, 18793), (467, 18814), (469, 18823), (478, 18865), (482, 18883), (483, 18886), (491, 18922), (494, 18940), (499, 18952), (501, 18961), (507, 18988), (521, 19045), (522, 19057), (525, 19075), (528, 19084), (530, 19096), (536, 19132), (544, 19162), (549, 19183), (556, 19207), (559, 19243), (581, 19399), (612, 19534), (616, 19558), (622, 19612), (626, 19660), (636, 19726), (637, 19729),

Gene: SirDuracell_25 Start: 20950, Stop: 23346, Start Num: 80

Candidate Starts for SirDuracell_25:

(Start: 80 @20950 has 128 MA's), (157, 21127), (162, 21148), (220, 21295), (247, 21436), (254, 21469), (260, 21502), (268, 21538), (301, 21631), (319, 21691), (324, 21709), (341, 21790), (393, 22018), (399, 22063), (445, 22258), (446, 22264), (448, 22273), (456, 22318), (458, 22333), (491, 22489), (494, 22507), (497, 22516), (525, 22645), (526, 22648), (564, 22858), (566, 22870), (591, 22984), (626, 23200), (637, 23284), (641, 23308), (643, 23317),

Gene: SirPhilip_26 Start: 19755, Stop: 22217, Start Num: 88

Candidate Starts for SirPhilip_26:

(Start: 88 @19755 has 96 MA's), (100, 19782), (109, 19803), (159, 19926), (164, 19944), (182, 19986), (185, 19995), (212, 20088), (216, 20112), (303, 20523), (358, 20784), (369, 20823), (378, 20862), (379, 20865), (406, 21024), (410, 21039), (427, 21117), (430, 21123), (440, 21183), (448, 21225), (456, 21270), (457, 21276), (458, 21285), (461, 21306), (482, 21402), (486, 21423), (496, 21471), (505, 21507), (512, 21546), (527, 21597), (534, 21627), (548, 21699), (562, 21801), (565, 21816), (584, 21924), (592, 21954), (623, 22146), (627, 22191),

Gene: Slim_19 Start: 17189, Stop: 19726, Start Num: 43

Candidate Starts for Slim_19:

(Start: 43 @17189 has 236 MA's), (52, 17210), (Start: 60 @17231 has 1 MA's), (75, 17270), (109, 17339), (113, 17348), (115, 17351), (124, 17369), (143, 17417), (190, 17570), (195, 17579), (212, 17624), (232, 17723), (233, 17726), (246, 17792), (260, 17867), (261, 17873), (263, 17891), (272, 17915), (273, 17921), (274, 17924), (291, 17957), (293, 17963), (301, 17993), (310, 18014), (316, 18044), (319, 18053), (323, 18068), (324, 18071), (346, 18182), (347, 18185), (348, 18194), (349, 18200), (352, 18215), (354, 18218), (362, 18239), (372, 18269), (375, 18281), (381, 18314), (399, 18425), (400, 18428), (405, 18455), (407, 18461), (420, 18515), (421, 18518), (445, 18620), (447, 18632), (448, 18635), (459, 18701), (464, 18725), (467, 18746), (469, 18755), (482, 18815), (483, 18818), (491, 18854), (494, 18872), (499, 18884), (501, 18893), (507, 18920), (521, 18977), (522, 18989), (525, 19007), (528, 19016), (530, 19028), (536, 19064), (544, 19094), (547, 19103), (549, 19115), (559, 19175), (565, 19229), (576, 19289), (581, 19331), (612, 19466), (616, 19490), (622, 19544), (626, 19592), (634, 19634), (636, 19658), (637, 19661),

Gene: Slimphazie_27 Start: 20879, Stop: 23311, Start Num: 88

Candidate Starts for Slimphazie_27:

(Start: 88 @20879 has 96 MA's), (132, 20978), (218, 21239), (223, 21260), (263, 21467), (272, 21500), (276, 21530), (297, 21602), (303, 21626), (316, 21671), (346, 21824), (353, 21869), (356, 21881), (360, 21890), (375, 21941), (406, 22121), (410, 22136), (424, 22205), (428, 22217), (448, 22322), (456, 22361), (457, 22367), (458, 22376), (475, 22457), (484, 22505), (502, 22580), (509, 22616), (529, 22697), (534, 22718), (553, 22811), (565, 22907), (594, 23054), (602, 23096), (610, 23135), (619, 23210),

Gene: Smooch_61 Start: 37810, Stop: 40320, Start Num: 57

Candidate Starts for Smooch_61:

(Start: 57 @37810 has 33 MA's), (69, 37843), (93, 37912), (95, 37915), (106, 37939), (115, 37963), (126, 37987), (138, 38020), (200, 38227), (203, 38239), (204, 38242), (237, 38389), (240, 38419),

(246, 38443), (255, 38473), (256, 38476), (260, 38503), (263, 38527), (273, 38557), (296, 38614), (315, 38674), (316, 38686), (323, 38710), (324, 38713), (332, 38755), (352, 38851), (354, 38854), (399, 39058), (413, 39109), (445, 39253), (456, 39313), (466, 39385), (467, 39388), (488, 39484), (525, 39658), (530, 39679), (552, 39772), (555, 39784), (565, 39874), (579, 39949), (598, 39994), (630, 40195), (635, 40249), (640, 40264),

Gene: SophKB_26 Start: 22283, Stop: 24679, Start Num: 80

Candidate Starts for SophKB_26:

(Start: 80 @22283 has 128 MA's), (157, 22460), (162, 22481), (220, 22628), (247, 22769), (254, 22802), (260, 22835), (268, 22871), (301, 22964), (319, 23024), (324, 23042), (350, 23174), (364, 23219), (393, 23351), (399, 23396), (416, 23456), (442, 23570), (445, 23591), (453, 23630), (456, 23651), (458, 23666), (489, 23816), (491, 23822), (494, 23840), (508, 23894), (525, 23978), (547, 24071), (591, 24317), (626, 24533), (637, 24617), (643, 24650),

Gene: Sotrice96_26 Start: 22239, Stop: 24635, Start Num: 80

Candidate Starts for Sotrice96_26:

(Start: 80 @22239 has 128 MA's), (157, 22416), (162, 22437), (220, 22584), (247, 22725), (254, 22758), (260, 22791), (268, 22827), (301, 22920), (319, 22980), (324, 22998), (341, 23079), (393, 23307), (399, 23352), (445, 23547), (446, 23553), (448, 23562), (456, 23607), (458, 23622), (491, 23778), (494, 23796), (497, 23805), (525, 23934), (526, 23937), (564, 24147), (566, 24159), (591, 24273), (626, 24489), (637, 24573), (641, 24597), (643, 24606),

Gene: Soul22_24 Start: 17091, Stop: 19640, Start Num: 27

Candidate Starts for Soul22_24:

(24, 17082), (Start: 27 @17091 has 7 MA's), (Start: 43 @17151 has 236 MA's), (58, 17187), (104, 17286), (160, 17427), (179, 17466), (184, 17481), (195, 17517), (197, 17523), (198, 17526), (210, 17544), (215, 17568), (222, 17592), (223, 17595), (252, 17739), (255, 17748), (260, 17772), (263, 17796), (272, 17820), (273, 17826), (279, 17847), (293, 17868), (301, 17898), (312, 17928), (316, 17949), (338, 18042), (341, 18057), (342, 18066), (346, 18087), (347, 18090), (357, 18132), (372, 18174), (373, 18177), (375, 18186), (380, 18213), (382, 18222), (388, 18261), (391, 18282), (393, 18285), (398, 18321), (401, 18342), (420, 18420), (421, 18423), (436, 18477), (447, 18537), (462, 18624), (464, 18630), (466, 18648), (467, 18651), (476, 18687), (487, 18741), (489, 18750), (506, 18828), (509, 18846), (518, 18882), (519, 18885), (522, 18903), (523, 18906), (525, 18921), (536, 18978), (540, 18990), (556, 19053), (559, 19086), (569, 19173), (578, 19221), (580, 19245), (587, 19272), (591, 19281), (600, 19320), (608, 19359), (612, 19383), (615, 19404), (626, 19500), (631, 19521), (640, 19584), (643, 19611), (644, 19620),

Gene: Sparkdehlily_18 Start: 17429, Stop: 19966, Start Num: 43

Candidate Starts for Sparkdehlily_18:

(Start: 43 @17429 has 236 MA's), (52, 17450), (Start: 60 @17471 has 1 MA's), (75, 17510), (109, 17579), (113, 17588), (115, 17591), (124, 17609), (143, 17657), (190, 17810), (195, 17819), (212, 17864), (229, 17942), (233, 17966), (246, 18032), (255, 18077), (260, 18107), (261, 18113), (263, 18131), (272, 18155), (274, 18164), (291, 18197), (293, 18203), (301, 18233), (315, 18272), (319, 18293), (323, 18308), (324, 18311), (347, 18425), (348, 18434), (349, 18440), (354, 18458), (362, 18479), (372, 18509), (375, 18521), (381, 18554), (399, 18665), (400, 18668), (405, 18695), (407, 18701), (420, 18755), (421, 18758), (443, 18845), (445, 18860), (448, 18875), (464, 18965), (467, 18986), (469, 18995), (482, 19055), (483, 19058), (491, 19094), (494, 19112), (499, 19124), (501, 19133), (507, 19160), (522, 19229), (525, 19247), (528, 19256), (530, 19268), (536, 19304), (544, 19334), (549, 19355), (556, 19379), (559, 19415), (565, 19469), (581, 19571), (601, 19649), (612, 19706), (616, 19730), (622, 19784), (626, 19832), (634, 19874), (639, 19907), (640, 19910),

Gene: Spartacus_19 Start: 17481, Stop: 20018, Start Num: 43

Candidate Starts for Spartacus_19:

(Start: 43 @17481 has 236 MA's), (83, 17571), (109, 17631), (113, 17640), (115, 17643), (124, 17661), (138, 17694), (143, 17709), (160, 17757), (194, 17868), (195, 17871), (208, 17901), (212, 17916), (229, 17994), (246, 18084), (255, 18129), (260, 18159), (261, 18165), (263, 18183), (272, 18207), (274, 18216), (291, 18249), (293, 18255), (301, 18285), (315, 18324), (316, 18336), (319, 18345), (323, 18360), (324, 18363), (346, 18474), (347, 18477), (348, 18486), (349, 18492), (352, 18507), (354, 18510), (362, 18531), (372, 18561), (375, 18573), (381, 18606), (399, 18717), (400, 18720), (405, 18747), (407, 18753), (420, 18807), (421, 18810), (443, 18897), (445, 18912), (447, 18924), (448, 18927), (459, 18993), (467, 19038), (469, 19047), (482, 19107), (483, 19110), (491, 19146), (494, 19164), (499, 19176), (501, 19185), (507, 19212), (522, 19281), (525, 19299), (528, 19308), (530, 19320), (536, 19356), (544, 19386), (549, 19407), (556, 19431), (559, 19467), (565, 19521), (576, 19581), (581, 19623), (601, 19701), (612, 19758), (616, 19782), (622, 19836), (626, 19884), (634, 19926), (636, 19950), (637, 19953),

Gene: Spikelee_19 Start: 17223, Stop: 19760, Start Num: 43

Candidate Starts for Spikelee_19:

(Start: 43 @17223 has 236 MA's), (52, 17244), (Start: 60 @17265 has 1 MA's), (75, 17304), (109, 17373), (113, 17382), (115, 17385), (124, 17403), (143, 17451), (190, 17604), (195, 17613), (212, 17658), (232, 17757), (233, 17760), (246, 17826), (260, 17901), (261, 17907), (263, 17925), (272, 17949), (273, 17955), (274, 17958), (291, 17991), (293, 17997), (301, 18027), (310, 18048), (316, 18078), (319, 18087), (323, 18102), (324, 18105), (346, 18216), (347, 18219), (348, 18228), (349, 18234), (352, 18249), (354, 18252), (362, 18273), (372, 18303), (375, 18315), (381, 18348), (399, 18459), (400, 18462), (405, 18489), (407, 18495), (420, 18549), (421, 18552), (443, 18639), (445, 18654), (447, 18666), (448, 18669), (459, 18735), (464, 18759), (467, 18780), (469, 18789), (482, 18849), (483, 18852), (491, 18888), (494, 18906), (499, 18918), (501, 18927), (507, 18954), (521, 19011), (522, 19023), (525, 19041), (528, 19050), (530, 19062), (536, 19098), (544, 19128), (547, 19137), (549, 19149), (559, 19209), (565, 19263), (576, 19323), (581, 19365), (612, 19500), (616, 19524), (622, 19578), (626, 19626), (634, 19668), (636, 19692), (637, 19695),

Gene: Spock_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Spock_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Spoonbill_18 Start: 17404, Stop: 19956, Start Num: 43

Candidate Starts for Spoonbill_18:

(Start: 43 @17404 has 236 MA's), (75, 17485), (109, 17554), (113, 17563), (115, 17566), (124, 17584), (143, 17632), (159, 17677), (194, 17791), (195, 17794), (199, 17806), (209, 17827), (211, 17836), (212, 17839), (223, 17887), (229, 17917), (240, 17983), (247, 18016), (255, 18052), (259, 18076), (273, 18136), (274, 18139), (279, 18157), (308, 18220), (310, 18223), (315, 18241), (319, 18262), (324, 18280), (330, 18307), (334, 18328), (341, 18361), (348, 18403), (349, 18409), (350, 18412), (354, 18427), (363, 18454), (364, 18457), (372, 18478), (375, 18490), (381, 18523), (397, 18616), (420, 18724), (426, 18748), (428, 18754), (433, 18772), (434, 18775), (439, 18799), (445, 18829), (450, 18853), (456, 18889), (457, 18895), (458, 18904), (463, 18931), (473, 18994), (478, 19018), (479, 19033), (489, 19075), (502, 19126), (523, 19222), (525, 19237), (528, 19246), (533, 19270), (547, 19333), (556, 19369), (609, 19675), (616, 19720), (626, 19822),

Gene: Squint_35 Start: 27671, Stop: 30178, Start Num: 43

Candidate Starts for Squint_35:

(Start: 43 @27671 has 236 MA's), (124, 27866), (138, 27902), (143, 27917), (179, 28004), (184, 28019), (212, 28094), (215, 28106), (223, 28133), (243, 28238), (252, 28277), (255, 28286), (260, 28310), (261, 28316), (263, 28334), (270, 28352), (274, 28367), (275, 28376), (279, 28385), (291, 28400), (299, 28427), (301, 28436), (315, 28475), (316, 28487), (319, 28496), (338, 28580), (354, 28661), (364, 28691), (365, 28694), (375, 28724), (380, 28751), (382, 28760), (390, 28811), (391, 28820), (393, 28823), (398, 28859), (401, 28880), (411, 28916), (446, 29069), (456, 29123), (464, 29168), (466, 29186), (467, 29189), (476, 29228), (506, 29375), (508, 29384), (523, 29453), (525, 29468), (559, 29633), (569, 29720), (578, 29768), (591, 29819), (608, 29897), (638, 30119), (640, 30122), (643, 30149),

Gene: StAnnes_18 Start: 17447, Stop: 19984, Start Num: 43

Candidate Starts for StAnnes_18:

(35, 17435), (Start: 43 @17447 has 236 MA's), (52, 17468), (Start: 60 @17489 has 1 MA's), (75, 17528), (113, 17606), (115, 17609), (124, 17627), (138, 17660), (143, 17675), (160, 17723), (194, 17834), (195, 17837), (208, 17867), (211, 17879), (212, 17882), (229, 17960), (233, 17984), (246, 18050), (255, 18095), (260, 18125), (261, 18131), (263, 18149), (272, 18173), (274, 18182), (291, 18215), (293, 18221), (301, 18251), (316, 18302), (319, 18311), (323, 18326), (324, 18329), (346, 18440), (347, 18443), (348, 18452), (349, 18458), (352, 18473), (354, 18476), (362, 18497), (372, 18527), (375, 18539), (381, 18572), (399, 18683), (400, 18686), (405, 18713), (407, 18719), (420, 18773), (421, 18776), (443, 18863), (445, 18878), (447, 18890), (448, 18893), (459, 18959), (464, 18983), (467, 19004), (469, 19013), (482, 19073), (483, 19076), (491, 19112), (494, 19130), (499, 19142), (501, 19151), (507, 19178), (522, 19247), (525, 19265), (528, 19274), (530, 19286), (536, 19322), (544, 19352), (549, 19373), (556, 19397), (559, 19433), (565, 19487), (576, 19547), (581, 19589), (601, 19667), (612, 19724), (616, 19748), (622, 19802), (626, 19850), (634, 19892), (636, 19916), (637, 19919),

Gene: Stank_29 Start: 22790, Stop: 25186, Start Num: 80

Candidate Starts for Stank_29:

(Start: 80 @22790 has 128 MA's), (157, 22967), (162, 22988), (220, 23135), (247, 23276), (254, 23309), (260, 23342), (268, 23378), (301, 23471), (319, 23531), (324, 23549), (350, 23681), (364, 23726), (393, 23858), (399, 23903), (416, 23963), (442, 24077), (445, 24098), (453, 24137), (456, 24158), (458, 24173), (489, 24323), (491, 24329), (494, 24347), (508, 24401), (525, 24485), (547, 24578), (591, 24824), (626, 25040), (637, 25124), (643, 25157),

Gene: Stap_19 Start: 17430, Stop: 19967, Start Num: 43

Candidate Starts for Stap_19:

(Start: 43 @17430 has 236 MA's), (52, 17451), (Start: 60 @17472 has 1 MA's), (75, 17511), (109, 17580), (113, 17589), (115, 17592), (124, 17610), (138, 17643), (143, 17658), (160, 17706), (190, 17811), (194, 17817), (195, 17820), (211, 17862), (212, 17865), (233, 17967), (246, 18033), (255, 18078), (260, 18108), (261, 18114), (263, 18132), (272, 18156), (274, 18165), (291, 18198), (293, 18204), (301, 18234), (315, 18273), (316, 18285), (319, 18294), (323, 18309), (324, 18312), (346, 18423), (347, 18426), (348, 18435), (349, 18441), (352, 18456), (354, 18459), (362, 18480), (372, 18510), (375, 18522), (381, 18555), (399, 18666), (400, 18669), (405, 18696), (407, 18702), (420, 18756), (421, 18759), (445, 18861), (447, 18873), (448, 18876), (459, 18942), (464, 18966), (467, 18987), (469, 18996), (482, 19056), (483, 19059), (491, 19095), (494, 19113), (499, 19125), (501, 19134), (507, 19161), (522, 19230), (525, 19248), (528, 19257), (530, 19269), (536, 19305), (549, 19356), (554, 19374), (559, 19416), (565, 19470), (576, 19530), (581, 19572), (601, 19650), (612, 19707), (616, 19731), (622, 19785), (626, 19833), (636, 19899), (637, 19902),

Gene: Starcevich_19 Start: 17191, Stop: 19728, Start Num: 43

Candidate Starts for Starcevich_19:

(Start: 43 @17191 has 236 MA's), (52, 17212), (Start: 60 @17233 has 1 MA's), (75, 17272), (109, 17341), (113, 17350), (115, 17353), (124, 17371), (143, 17419), (190, 17572), (195, 17581), (212,

17626), (232, 17725), (233, 17728), (246, 17794), (260, 17869), (261, 17875), (263, 17893), (272, 17917), (273, 17923), (274, 17926), (291, 17959), (293, 17965), (301, 17995), (310, 18016), (316, 18046), (319, 18055), (323, 18070), (324, 18073), (346, 18184), (347, 18187), (348, 18196), (349, 18202), (352, 18217), (354, 18220), (362, 18241), (372, 18271), (375, 18283), (381, 18316), (399, 18427), (400, 18430), (405, 18457), (407, 18463), (420, 18517), (421, 18520), (445, 18622), (447, 18634), (448, 18637), (459, 18703), (464, 18727), (467, 18748), (469, 18757), (482, 18817), (483, 18820), (491, 18856), (494, 18874), (499, 18886), (501, 18895), (507, 18922), (521, 18979), (522, 18991), (525, 19009), (528, 19018), (530, 19030), (536, 19066), (544, 19096), (547, 19105), (549, 19117), (559, 19177), (565, 19231), (576, 19291), (581, 19333), (612, 19468), (616, 19492), (622, 19546), (626, 19594), (634, 19636), (636, 19660), (637, 19663),

Gene: Stargaze_22 Start: 20828, Stop: 23284, Start Num: 39

Candidate Starts for Stargaze_22:

(Start: 39 @20828 has 9 MA's), (94, 20972), (139, 21056), (155, 21086), (171, 21131), (219, 21290), (243, 21407), (304, 21629), (320, 21680), (324, 21695), (345, 21797), (361, 21863), (383, 21947), (401, 22061), (420, 22151), (423, 22166), (425, 22172), (429, 22181), (434, 22220), (440, 22247), (443, 22259), (456, 22334), (474, 22430), (478, 22442), (484, 22481), (516, 22616), (525, 22649), (528, 22658), (534, 22685), (554, 22784), (561, 22862), (571, 22922), (603, 23078), (623, 23222), (626, 23264),

Gene: Stark_27 Start: 22042, Stop: 24438, Start Num: 80

Candidate Starts for Stark_27:

(Start: 80 @22042 has 128 MA's), (157, 22219), (162, 22240), (220, 22387), (254, 22561), (260, 22594), (268, 22630), (301, 22723), (319, 22783), (324, 22801), (350, 22933), (364, 22978), (393, 23110), (399, 23155), (416, 23215), (442, 23329), (445, 23350), (453, 23389), (456, 23410), (458, 23425), (489, 23575), (491, 23581), (494, 23599), (508, 23653), (525, 23737), (547, 23830), (591, 24076), (626, 24292), (637, 24376), (643, 24409),

Gene: StellaBean_26 Start: 22283, Stop: 24679, Start Num: 80

Candidate Starts for StellaBean_26:

(Start: 80 @22283 has 128 MA's), (157, 22460), (162, 22481), (220, 22628), (247, 22769), (254, 22802), (260, 22835), (268, 22871), (301, 22964), (319, 23024), (324, 23042), (350, 23174), (364, 23219), (393, 23351), (399, 23396), (416, 23456), (442, 23570), (445, 23591), (453, 23630), (456, 23651), (458, 23666), (489, 23816), (491, 23822), (494, 23840), (508, 23894), (525, 23978), (547, 24071), (591, 24317), (626, 24533), (637, 24617), (643, 24650),

Gene: Stinson_28 Start: 21121, Stop: 23553, Start Num: 88

Candidate Starts for Stinson_28:

(Start: 88 @21121 has 96 MA's), (92, 21130), (132, 21220), (218, 21481), (223, 21502), (263, 21709), (272, 21742), (276, 21772), (297, 21844), (303, 21868), (316, 21913), (346, 22066), (356, 22123), (360, 22132), (371, 22168), (375, 22183), (406, 22363), (410, 22378), (424, 22447), (428, 22459), (440, 22522), (448, 22564), (456, 22603), (457, 22609), (458, 22618), (462, 22639), (475, 22699), (484, 22747), (499, 22807), (501, 22816), (511, 22873), (527, 22930), (529, 22939), (534, 22960), (543, 23005), (553, 23053), (565, 23149), (610, 23377), (626, 23524),

Gene: StolenFromERC_28 Start: 22274, Stop: 24670, Start Num: 80

Candidate Starts for StolenFromERC_28:

(Start: 80 @22274 has 128 MA's), (157, 22451), (162, 22472), (220, 22619), (254, 22793), (260, 22826), (268, 22862), (301, 22955), (319, 23015), (324, 23033), (350, 23165), (364, 23210), (393, 23342), (399, 23387), (416, 23447), (442, 23561), (445, 23582), (453, 23621), (456, 23642), (458, 23657), (489, 23807), (491, 23813), (494, 23831), (508, 23885), (525, 23969), (547, 24062), (591, 24308), (626, 24524), (637, 24608), (643, 24641),

Gene: StormChicken_26 Start: 22458, Stop: 24854, Start Num: 80

Candidate Starts for StormChicken_26:

(Start: 80 @22458 has 128 MA's), (157, 22635), (162, 22656), (220, 22803), (247, 22944), (254, 22977), (260, 23010), (268, 23046), (301, 23139), (319, 23199), (324, 23217), (350, 23349), (364, 23394), (393, 23526), (399, 23571), (416, 23631), (442, 23745), (445, 23766), (453, 23805), (456, 23826), (458, 23841), (489, 23991), (491, 23997), (494, 24015), (508, 24069), (525, 24153), (547, 24246), (591, 24492), (626, 24708), (637, 24792), (643, 24825),

Gene: Strokeseat_18 Start: 17495, Stop: 20032, Start Num: 43

Candidate Starts for Strokeseat_18:

(Start: 43 @17495 has 236 MA's), (52, 17516), (Start: 60 @17537 has 1 MA's), (75, 17576), (109, 17645), (113, 17654), (115, 17657), (124, 17675), (143, 17723), (194, 17882), (195, 17885), (211, 17927), (212, 17930), (229, 18008), (232, 18029), (233, 18032), (246, 18098), (260, 18173), (261, 18179), (272, 18221), (273, 18227), (274, 18230), (291, 18263), (293, 18269), (301, 18299), (310, 18320), (316, 18350), (319, 18359), (342, 18467), (345, 18479), (346, 18488), (347, 18491), (348, 18500), (349, 18506), (352, 18521), (354, 18524), (362, 18545), (375, 18587), (381, 18620), (405, 18761), (407, 18767), (420, 18821), (421, 18824), (428, 18851), (445, 18926), (447, 18938), (448, 18941), (459, 19007), (464, 19031), (467, 19052), (469, 19061), (482, 19121), (483, 19124), (491, 19160), (494, 19178), (501, 19199), (507, 19226), (522, 19295), (525, 19313), (528, 19322), (530, 19334), (536, 19370), (544, 19400), (559, 19481), (576, 19595), (581, 19637), (612, 19772), (616, 19796), (622, 19850), (636, 19964), (637, 19967),

Gene: Sulley_27 Start: 20845, Stop: 23277, Start Num: 88

Candidate Starts for Sulley_27:

(Start: 88 @20845 has 96 MA's), (132, 20944), (218, 21205), (223, 21226), (263, 21433), (272, 21466), (276, 21496), (297, 21568), (303, 21592), (346, 21790), (353, 21835), (356, 21847), (360, 21856), (375, 21907), (406, 22087), (410, 22102), (424, 22171), (428, 22183), (440, 22246), (448, 22288), (456, 22327), (457, 22333), (458, 22342), (462, 22363), (475, 22423), (482, 22456), (484, 22471), (485, 22474), (498, 22528), (501, 22540), (527, 22654), (529, 22663), (534, 22684), (548, 22756), (553, 22777), (565, 22873), (610, 23101), (626, 23248),

Gene: SuperGrey_19 Start: 18074, Stop: 20611, Start Num: 43

Candidate Starts for SuperGrey_19:

(Start: 43 @18074 has 236 MA's), (52, 18095), (Start: 60 @18116 has 1 MA's), (75, 18155), (109, 18224), (113, 18233), (115, 18236), (124, 18254), (143, 18302), (194, 18461), (195, 18464), (212, 18509), (232, 18608), (233, 18611), (246, 18677), (260, 18752), (261, 18758), (263, 18776), (272, 18800), (273, 18806), (274, 18809), (291, 18842), (293, 18848), (301, 18878), (310, 18899), (316, 18929), (319, 18938), (323, 18953), (324, 18956), (346, 19067), (347, 19070), (348, 19079), (349, 19085), (352, 19100), (354, 19103), (362, 19124), (372, 19154), (375, 19166), (381, 19199), (399, 19310), (400, 19313), (405, 19340), (407, 19346), (420, 19400), (421, 19403), (443, 19490), (445, 19505), (447, 19517), (448, 19520), (459, 19586), (464, 19610), (467, 19631), (469, 19640), (482, 19700), (483, 19703), (491, 19739), (494, 19757), (499, 19769), (501, 19778), (507, 19805), (521, 19862), (522, 19874), (525, 19892), (528, 19901), (530, 19913), (536, 19949), (544, 19979), (547, 19988), (549, 20000), (559, 20060), (565, 20114), (576, 20174), (581, 20216), (601, 20294), (612, 20351), (616, 20375), (622, 20429), (626, 20477), (634, 20519), (636, 20543), (637, 20546),

Gene: Superphikiman_36 Start: 27736, Stop: 30243, Start Num: 43

Candidate Starts for Superphikiman_36:

(Start: 43 @27736 has 236 MA's), (124, 27931), (138, 27967), (143, 27982), (179, 28069), (184, 28084), (212, 28159), (215, 28171), (223, 28198), (243, 28303), (252, 28342), (255, 28351), (260, 28375), (261, 28381), (263, 28399), (270, 28417), (274, 28432), (275, 28441), (279, 28450), (291, 28465), (299, 28492), (301, 28501), (315, 28540), (316, 28552), (319, 28561), (338, 28645), (354, 28726), (364, 28756), (365, 28759), (375, 28789), (380, 28816), (382, 28825), (390, 28876), (391,

28885), (393, 28888), (398, 28924), (401, 28945), (411, 28981), (446, 29134), (456, 29188), (464, 29233), (466, 29251), (467, 29254), (476, 29293), (506, 29440), (508, 29449), (523, 29518), (525, 29533), (559, 29698), (569, 29785), (578, 29833), (591, 29884), (608, 29962), (638, 30184), (640, 30187), (643, 30214),

Gene: SwagPiggett_18 Start: 17406, Stop: 19943, Start Num: 43

Candidate Starts for SwagPiggett_18:

(Start: 43 @17406 has 236 MA's), (52, 17427), (Start: 60 @17448 has 1 MA's), (75, 17487), (109, 17556), (113, 17565), (115, 17568), (124, 17586), (143, 17634), (190, 17787), (195, 17796), (212, 17841), (229, 17919), (233, 17943), (246, 18009), (255, 18054), (260, 18084), (261, 18090), (263, 18108), (272, 18132), (274, 18141), (291, 18174), (293, 18180), (301, 18210), (315, 18249), (319, 18270), (323, 18285), (324, 18288), (347, 18402), (348, 18411), (349, 18417), (354, 18435), (362, 18456), (372, 18486), (375, 18498), (381, 18531), (399, 18642), (400, 18645), (405, 18672), (407, 18678), (420, 18732), (421, 18735), (443, 18822), (445, 18837), (448, 18852), (464, 18942), (467, 18963), (469, 18972), (482, 19032), (483, 19035), (491, 19071), (494, 19089), (499, 19101), (501, 19110), (507, 19137), (522, 19206), (525, 19224), (528, 19233), (530, 19245), (536, 19281), (544, 19311), (549, 19332), (556, 19356), (559, 19392), (565, 19446), (581, 19548), (601, 19626), (612, 19683), (616, 19707), (622, 19761), (626, 19809), (634, 19851), (639, 19884), (640, 19887),

Gene: TBrady12_28 Start: 22274, Stop: 24670, Start Num: 80

Candidate Starts for TBrady12_28:

(Start: 80 @22274 has 128 MA's), (157, 22451), (162, 22472), (220, 22619), (247, 22760), (254, 22793), (260, 22826), (268, 22862), (301, 22955), (319, 23015), (324, 23033), (350, 23165), (364, 23210), (393, 23342), (399, 23387), (416, 23447), (442, 23561), (445, 23582), (453, 23621), (456, 23642), (458, 23657), (489, 23807), (491, 23813), (494, 23831), (508, 23885), (525, 23969), (547, 24062), (591, 24308), (626, 24524), (637, 24608), (643, 24641),

Gene: TDanisky_18 Start: 17429, Stop: 19966, Start Num: 43

Candidate Starts for TDanisky_18:

(Start: 43 @17429 has 236 MA's), (52, 17450), (Start: 60 @17471 has 1 MA's), (75, 17510), (109, 17579), (113, 17588), (115, 17591), (124, 17609), (143, 17657), (190, 17810), (195, 17819), (212, 17864), (229, 17942), (233, 17966), (246, 18032), (255, 18077), (260, 18107), (261, 18113), (263, 18131), (272, 18155), (274, 18164), (291, 18197), (293, 18203), (301, 18233), (315, 18272), (319, 18293), (323, 18308), (324, 18311), (347, 18425), (348, 18434), (349, 18440), (354, 18458), (362, 18479), (372, 18509), (375, 18521), (381, 18554), (399, 18665), (400, 18668), (405, 18695), (407, 18701), (420, 18755), (421, 18758), (443, 18845), (445, 18860), (448, 18875), (464, 18965), (467, 18986), (469, 18995), (482, 19055), (483, 19058), (491, 19094), (494, 19112), (499, 19124), (501, 19133), (507, 19160), (522, 19229), (525, 19247), (528, 19256), (530, 19268), (536, 19304), (544, 19334), (549, 19355), (556, 19379), (559, 19415), (565, 19469), (581, 19571), (601, 19649), (612, 19706), (616, 19730), (622, 19784), (626, 19832), (634, 19874), (639, 19907), (640, 19910),

Gene: Tachez_27 Start: 20841, Stop: 23273, Start Num: 88

Candidate Starts for Tachez_27:

(Start: 88 @20841 has 96 MA's), (132, 20940), (218, 21201), (223, 21222), (263, 21429), (272, 21462), (276, 21492), (297, 21564), (303, 21588), (316, 21633), (346, 21786), (353, 21831), (356, 21843), (360, 21852), (375, 21903), (406, 22083), (410, 22098), (424, 22167), (428, 22179), (448, 22284), (456, 22323), (457, 22329), (458, 22338), (475, 22419), (484, 22467), (502, 22542), (509, 22578), (527, 22650), (529, 22659), (534, 22680), (553, 22773), (565, 22869), (594, 23016), (602, 23058), (610, 23097), (619, 23172),

Gene: TaiwanKao_28 Start: 20852, Stop: 23284, Start Num: 88

Candidate Starts for TaiwanKao_28:

(Start: 88 @20852 has 96 MA's), (132, 20951), (218, 21212), (263, 21440), (272, 21473), (276, 21503), (303, 21599), (316, 21644), (346, 21797), (353, 21842), (356, 21854), (360, 21863), (375, 21914), (406, 22094), (410, 22109), (424, 22178), (428, 22190), (440, 22253), (448, 22295), (456, 22334), (457, 22340), (458, 22349), (462, 22370), (475, 22430), (501, 22547), (509, 22589), (527, 22661), (529, 22670), (534, 22691), (548, 22763), (553, 22784), (565, 22880), (610, 23108), (626, 23255),

Gene: Taj_18 Start: 17430, Stop: 19967, Start Num: 43

Candidate Starts for Taj_18:

(35, 17418), (Start: 43 @17430 has 236 MA's), (52, 17451), (Start: 60 @17472 has 1 MA's), (75, 17511), (109, 17580), (113, 17589), (115, 17592), (124, 17610), (138, 17643), (143, 17658), (160, 17706), (190, 17811), (194, 17817), (195, 17820), (211, 17862), (212, 17865), (229, 17943), (246, 18033), (255, 18078), (260, 18108), (261, 18114), (263, 18132), (272, 18156), (274, 18165), (291, 18198), (293, 18204), (301, 18234), (315, 18273), (316, 18285), (319, 18294), (323, 18309), (324, 18312), (346, 18423), (347, 18426), (348, 18435), (349, 18441), (352, 18456), (354, 18459), (362, 18480), (372, 18510), (375, 18522), (381, 18555), (399, 18666), (400, 18669), (405, 18696), (407, 18702), (420, 18756), (421, 18759), (443, 18846), (445, 18861), (447, 18873), (448, 18876), (459, 18942), (464, 18966), (467, 18987), (469, 18996), (482, 19056), (483, 19059), (491, 19095), (494, 19113), (499, 19125), (501, 19134), (507, 19161), (522, 19230), (525, 19248), (528, 19257), (530, 19269), (536, 19305), (544, 19335), (549, 19356), (556, 19380), (559, 19416), (565, 19470), (576, 19530), (581, 19572), (612, 19707), (616, 19731), (622, 19785), (626, 19833), (634, 19875), (636, 19899), (637, 19902),

Gene: Tarkin_28 Start: 23273, Stop: 25669, Start Num: 80

Candidate Starts for Tarkin_28:

(Start: 80 @23273 has 128 MA's), (157, 23450), (162, 23471), (220, 23618), (247, 23759), (254, 23792), (260, 23825), (268, 23861), (301, 23954), (319, 24014), (324, 24032), (350, 24164), (364, 24209), (393, 24341), (399, 24386), (416, 24446), (442, 24560), (445, 24581), (453, 24620), (456, 24641), (458, 24656), (489, 24806), (491, 24812), (494, 24830), (508, 24884), (525, 24968), (547, 25061), (591, 25307), (626, 25523), (637, 25607), (643, 25640),

Gene: Tchotchke_19 Start: 17331, Stop: 19868, Start Num: 43

Candidate Starts for Tchotchke_19:

(Start: 43 @17331 has 236 MA's), (52, 17352), (Start: 60 @17373 has 1 MA's), (75, 17412), (109, 17481), (113, 17490), (115, 17493), (124, 17511), (143, 17559), (190, 17712), (195, 17721), (212, 17766), (232, 17865), (233, 17868), (246, 17934), (260, 18009), (261, 18015), (263, 18033), (272, 18057), (273, 18063), (274, 18066), (291, 18099), (293, 18105), (301, 18135), (310, 18156), (316, 18186), (319, 18195), (323, 18210), (324, 18213), (346, 18324), (347, 18327), (348, 18336), (349, 18342), (352, 18357), (354, 18360), (362, 18381), (372, 18411), (375, 18423), (381, 18456), (399, 18567), (400, 18570), (405, 18597), (407, 18603), (420, 18657), (421, 18660), (445, 18762), (447, 18774), (448, 18777), (459, 18843), (464, 18867), (467, 18888), (469, 18897), (482, 18957), (483, 18960), (491, 18996), (494, 19014), (499, 19026), (501, 19035), (507, 19062), (521, 19119), (522, 19131), (525, 19149), (528, 19158), (530, 19170), (536, 19206), (544, 19236), (547, 19245), (549, 19257), (559, 19317), (565, 19371), (576, 19431), (581, 19473), (612, 19608), (616, 19632), (622, 19686), (626, 19734), (634, 19776), (636, 19800), (637, 19803),

Gene: TeamEdward_26 Start: 22455, Stop: 24851, Start Num: 80

Candidate Starts for TeamEdward_26:

(Start: 80 @22455 has 128 MA's), (157, 22632), (162, 22653), (220, 22800), (247, 22941), (254, 22974), (260, 23007), (268, 23043), (301, 23136), (319, 23196), (324, 23214), (350, 23346), (364, 23391), (393, 23523), (399, 23568), (416, 23628), (442, 23742), (445, 23763), (453, 23802), (456, 23823), (458, 23838), (489, 23988), (491, 23994), (494, 24012), (508, 24066), (525, 24150), (547, 24243), (591, 24489), (626, 24705), (637, 24789), (643, 24822),

Gene: TeardropMSU_25 Start: 22191, Stop: 24587, Start Num: 80

Candidate Starts for TeardropMSU_25:

(Start: 80 @22191 has 128 MA's), (157, 22368), (162, 22389), (220, 22536), (247, 22677), (254, 22710), (260, 22743), (268, 22779), (301, 22872), (319, 22932), (324, 22950), (341, 23031), (393, 23259), (399, 23304), (445, 23499), (446, 23505), (448, 23514), (456, 23559), (458, 23574), (491, 23730), (494, 23748), (497, 23757), (509, 23811), (525, 23886), (526, 23889), (564, 24099), (566, 24111), (591, 24225), (626, 24441), (637, 24525), (641, 24549), (643, 24558),

Gene: Teaspoon_27 Start: 22237, Stop: 24633, Start Num: 80

Candidate Starts for Teaspoon_27:

(Start: 80 @22237 has 128 MA's), (157, 22414), (162, 22435), (220, 22582), (247, 22723), (254, 22756), (260, 22789), (268, 22825), (301, 22918), (319, 22978), (324, 22996), (350, 23128), (364, 23173), (393, 23305), (399, 23350), (416, 23410), (442, 23524), (445, 23545), (453, 23584), (456, 23605), (458, 23620), (489, 23770), (491, 23776), (494, 23794), (508, 23848), (525, 23932), (547, 24025), (591, 24271), (626, 24487), (637, 24571), (643, 24604),

Gene: TelAviv_55 Start: 36063, Stop: 38573, Start Num: 57

Candidate Starts for TelAviv_55:

(Start: 57 @36063 has 33 MA's), (69, 36096), (93, 36165), (95, 36168), (106, 36192), (115, 36216), (126, 36240), (138, 36273), (200, 36480), (203, 36492), (204, 36495), (237, 36642), (240, 36672), (246, 36696), (255, 36726), (256, 36729), (260, 36756), (263, 36780), (273, 36810), (296, 36867), (302, 36891), (315, 36927), (316, 36939), (323, 36963), (324, 36966), (332, 37008), (352, 37104), (354, 37107), (413, 37362), (445, 37506), (456, 37566), (466, 37638), (467, 37641), (488, 37737), (525, 37911), (530, 37932), (552, 38025), (555, 38037), (565, 38127), (579, 38202), (598, 38247), (630, 38448), (635, 38502), (640, 38517),

Gene: Terminus_26 Start: 22371, Stop: 24767, Start Num: 80

Candidate Starts for Terminus_26:

(Start: 80 @22371 has 128 MA's), (157, 22548), (162, 22569), (220, 22716), (247, 22857), (254, 22890), (260, 22923), (268, 22959), (301, 23052), (319, 23112), (324, 23130), (350, 23262), (364, 23307), (393, 23439), (399, 23484), (416, 23544), (442, 23658), (445, 23679), (453, 23718), (456, 23739), (458, 23754), (489, 23904), (491, 23910), (494, 23928), (508, 23982), (525, 24066), (547, 24159), (591, 24405), (626, 24621), (637, 24705), (643, 24738),

Gene: ThetaBob_20 Start: 17751, Stop: 20231, Start Num: 46

Candidate Starts for ThetaBob_20:

(Start: 46 @17751 has 3 MA's), (50, 17757), (52, 17763), (Start: 80 @17826 has 128 MA's), (82, 17829), (96, 17856), (119, 17910), (124, 17919), (138, 17952), (153, 17985), (160, 18018), (179, 18057), (184, 18072), (195, 18108), (197, 18114), (198, 18117), (210, 18135), (212, 18147), (215, 18159), (222, 18183), (223, 18186), (252, 18330), (255, 18339), (260, 18363), (263, 18387), (272, 18411), (273, 18417), (279, 18438), (281, 18441), (293, 18459), (301, 18489), (312, 18519), (316, 18540), (338, 18633), (341, 18648), (342, 18657), (346, 18678), (347, 18681), (357, 18723), (372, 18765), (373, 18768), (375, 18777), (380, 18804), (382, 18813), (388, 18852), (391, 18873), (393, 18876), (398, 18912), (401, 18933), (420, 19011), (421, 19014), (436, 19068), (447, 19128), (464, 19221), (467, 19242), (476, 19278), (487, 19332), (489, 19341), (506, 19419), (509, 19437), (518, 19473), (519, 19476), (522, 19494), (523, 19497), (525, 19512), (530, 19533), (536, 19569), (540, 19581), (556, 19644), (559, 19677), (569, 19764), (578, 19812), (580, 19836), (587, 19863), (591, 19872), (600, 19911), (608, 19950), (612, 19974), (615, 19995), (626, 20091), (631, 20112), (640, 20175), (643, 20202), (644, 20211),

Gene: Thimble_26 Start: 21237, Stop: 23633, Start Num: 80

Candidate Starts for Thimble_26:

(Start: 80 @21237 has 128 MA's), (157, 21414), (162, 21435), (220, 21582), (247, 21723), (254, 21756), (260, 21789), (268, 21825), (301, 21918), (319, 21978), (324, 21996), (350, 22128), (364, 22173), (393, 22305), (399, 22350), (416, 22410), (442, 22524), (445, 22545), (453, 22584), (456, 22605), (458, 22620), (489, 22770), (491, 22776), (494, 22794), (508, 22848), (525, 22932), (547, 23025), (591, 23271), (626, 23487), (637, 23571), (643, 23604),

Gene: Thresher_27 Start: 23038, Stop: 25434, Start Num: 80

Candidate Starts for Thresher_27:

(Start: 80 @23038 has 128 MA's), (157, 23215), (162, 23236), (220, 23383), (254, 23557), (260, 23590), (268, 23626), (301, 23719), (319, 23779), (324, 23797), (350, 23929), (364, 23974), (393, 24106), (399, 24151), (442, 24325), (445, 24346), (453, 24385), (456, 24406), (458, 24421), (489, 24571), (491, 24577), (494, 24595), (508, 24649), (525, 24733), (547, 24826), (591, 25072), (626, 25288), (637, 25372), (643, 25405),

Gene: Thumb_29 Start: 25682, Stop: 28525, Start Num: 15

Candidate Starts for Thumb_29:

(Start: 15 @25682 has 8 MA's), (19, 25814), (21, 25826), (23, 25835), (38, 25904), (65, 25970), (71, 25991), (89, 26039), (107, 26081), (118, 26105), (129, 26138), (145, 26174), (152, 26186), (178, 26279), (195, 26336), (207, 26375), (247, 26570), (253, 26600), (261, 26642), (310, 26783), (315, 26801), (332, 26882), (341, 26921), (345, 26942), (381, 27080), (387, 27119), (421, 27284), (439, 27356), (447, 27398), (450, 27410), (466, 27509), (545, 27872), (593, 28142), (599, 28175), (605, 28199), (621, 28319), (632, 28397), (643, 28484), (645, 28499), (646, 28505),

Gene: TiniBug_27 Start: 20837, Stop: 23269, Start Num: 88

Candidate Starts for TiniBug_27:

(81, 20819), (Start: 88 @20837 has 96 MA's), (109, 20885), (132, 20936), (218, 21197), (223, 21218), (271, 21455), (272, 21458), (276, 21488), (277, 21491), (297, 21560), (303, 21584), (304, 21590), (308, 21596), (316, 21629), (346, 21782), (356, 21839), (360, 21848), (375, 21899), (406, 22079), (410, 22094), (424, 22163), (428, 22175), (434, 22211), (440, 22238), (448, 22280), (456, 22319), (457, 22325), (458, 22334), (462, 22355), (475, 22415), (482, 22448), (485, 22466), (501, 22532), (509, 22574), (527, 22646), (529, 22655), (534, 22676), (548, 22748), (594, 23012), (610, 23093), (619, 23168), (626, 23240),

Gene: Tiri_27 Start: 20884, Stop: 23316, Start Num: 88

Candidate Starts for Tiri_27:

(Start: 88 @20884 has 96 MA's), (132, 20983), (218, 21244), (223, 21265), (263, 21472), (272, 21505), (276, 21535), (297, 21607), (303, 21631), (346, 21829), (353, 21874), (356, 21886), (360, 21895), (375, 21946), (406, 22126), (410, 22141), (424, 22210), (428, 22222), (440, 22285), (448, 22327), (456, 22366), (457, 22372), (458, 22381), (462, 22402), (475, 22462), (501, 22579), (509, 22621), (527, 22693), (529, 22702), (534, 22723), (548, 22795), (553, 22816), (565, 22912), (576, 22975), (602, 23101), (610, 23140), (626, 23287),

Gene: Tomaszewski_25 Start: 21884, Stop: 24280, Start Num: 80

Candidate Starts for Tomaszewski_25:

(Start: 80 @21884 has 128 MA's), (157, 22061), (162, 22082), (220, 22229), (247, 22370), (254, 22403), (260, 22436), (268, 22472), (301, 22565), (319, 22625), (324, 22643), (350, 22775), (364, 22820), (393, 22952), (399, 22997), (442, 23171), (445, 23192), (453, 23231), (456, 23252), (458, 23267), (491, 23423), (494, 23441), (508, 23495), (525, 23579), (547, 23672), (591, 23918), (626, 24134), (637, 24218), (643, 24251),

Gene: TootsiePop_19 Start: 17273, Stop: 19798, Start Num: 43

Candidate Starts for TootsiePop_19:

(Start: 43 @17273 has 236 MA's), (52, 17294), (Start: 60 @17315 has 1 MA's), (75, 17354), (109, 17423), (113, 17432), (115, 17435), (124, 17453), (138, 17486), (143, 17501), (160, 17549), (194, 17660), (195, 17663), (212, 17708), (229, 17786), (233, 17810), (246, 17876), (255, 17921), (260, 17951), (261, 17957), (263, 17975), (272, 17999), (274, 18008), (291, 18041), (293, 18047), (301, 18077), (315, 18116), (316, 18128), (319, 18137), (323, 18152), (324, 18155), (354, 18302), (372, 18353), (392, 18464), (400, 18515), (404, 18539), (428, 18632), (439, 18677), (442, 18686), (445, 18707), (447, 18719), (448, 18722), (456, 18767), (464, 18812), (466, 18830), (467, 18833), (478, 18884), (489, 18935), (491, 18941), (494, 18959), (499, 18971), (501, 18980), (508, 19013), (525, 19094), (540, 19163), (547, 19190), (553, 19217), (560, 19268), (565, 19316), (615, 19559), (626, 19664), (631, 19685), (639, 19739), (642, 19763),

Gene: Tootsieroll_19 Start: 17239, Stop: 19776, Start Num: 43

Candidate Starts for Tootsieroll_19:

(35, 17227), (Start: 43 @17239 has 236 MA's), (52, 17260), (Start: 60 @17281 has 1 MA's), (75, 17320), (109, 17389), (113, 17398), (115, 17401), (124, 17419), (138, 17452), (143, 17467), (160, 17515), (190, 17620), (194, 17626), (195, 17629), (211, 17671), (212, 17674), (233, 17776), (246, 17842), (255, 17887), (260, 17917), (261, 17923), (263, 17941), (272, 17965), (274, 17974), (291, 18007), (293, 18013), (301, 18043), (316, 18094), (319, 18103), (342, 18211), (345, 18223), (346, 18232), (347, 18235), (349, 18250), (352, 18265), (354, 18268), (362, 18289), (372, 18319), (375, 18331), (381, 18364), (399, 18475), (400, 18478), (405, 18505), (407, 18511), (420, 18565), (421, 18568), (428, 18595), (445, 18670), (447, 18682), (448, 18685), (459, 18751), (463, 18772), (464, 18775), (467, 18796), (469, 18805), (482, 18865), (483, 18868), (489, 18898), (494, 18922), (499, 18934), (501, 18943), (522, 19039), (525, 19057), (528, 19066), (530, 19078), (544, 19144), (547, 19153), (549, 19165), (556, 19189), (559, 19225), (581, 19381), (612, 19516), (616, 19540), (622, 19594), (631, 19663), (636, 19708), (637, 19711),

Gene: Topiatin_20 Start: 18098, Stop: 20635, Start Num: 43

Candidate Starts for Topiatin_20:

(35, 18086), (Start: 43 @18098 has 236 MA's), (52, 18119), (Start: 60 @18140 has 1 MA's), (75, 18179), (109, 18248), (113, 18257), (115, 18260), (124, 18278), (138, 18311), (143, 18326), (160, 18374), (194, 18485), (195, 18488), (208, 18518), (212, 18533), (229, 18611), (233, 18635), (246, 18701), (255, 18746), (260, 18776), (261, 18782), (263, 18800), (272, 18824), (274, 18833), (291, 18866), (293, 18872), (301, 18902), (315, 18941), (316, 18953), (319, 18962), (323, 18977), (324, 18980), (346, 19091), (347, 19094), (348, 19103), (349, 19109), (352, 19124), (354, 19127), (362, 19148), (372, 19178), (375, 19190), (381, 19223), (399, 19334), (400, 19337), (405, 19364), (407, 19370), (420, 19424), (421, 19427), (443, 19514), (445, 19529), (447, 19541), (448, 19544), (459, 19610), (464, 19634), (467, 19655), (469, 19664), (478, 19706), (482, 19724), (483, 19727), (491, 19763), (494, 19781), (499, 19793), (501, 19802), (507, 19829), (522, 19898), (525, 19916), (528, 19925), (530, 19937), (536, 19973), (544, 20003), (549, 20024), (556, 20048), (559, 20084), (565, 20138), (576, 20198), (581, 20240), (601, 20318), (612, 20375), (616, 20399), (622, 20453), (626, 20501), (634, 20543), (636, 20567), (637, 20570),

Gene: Topper_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Topper_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Toron_20 Start: 17872, Stop: 20292, Start Num: 100

Candidate Starts for Toron_20:

(100, 17872), (105, 17878), (108, 17884), (137, 17947), (148, 17971), (150, 17974), (165, 18037), (202, 18145), (206, 18154), (212, 18175), (214, 18184), (232, 18274), (240, 18319), (252, 18379), (274, 18475), (298, 18532), (308, 18556), (321, 18604), (323, 18613), (324, 18616), (334, 18664), (342, 18706), (347, 18730), (348, 18739), (349, 18745), (354, 18763), (362, 18784), (365, 18796), (372, 18814), (375, 18826), (381, 18859), (391, 18922), (393, 18925), (395, 18940), (397, 18952), (420, 19060), (426, 19084), (434, 19111), (436, 19117), (445, 19165), (450, 19189), (456, 19225), (457, 19231), (458, 19240), (478, 19354), (479, 19369), (499, 19447), (523, 19558), (525, 19573), (528, 19582), (547, 19669), (556, 19705), (559, 19741), (565, 19795), (612, 20032), (616, 20056), (631, 20179), (636, 20224), (642, 20257),

Gene: Totinger_19 Start: 17189, Stop: 19726, Start Num: 43

Candidate Starts for Totinger_19:

(Start: 43 @17189 has 236 MA's), (52, 17210), (Start: 60 @17231 has 1 MA's), (75, 17270), (109, 17339), (113, 17348), (115, 17351), (124, 17369), (143, 17417), (190, 17570), (195, 17579), (212, 17624), (232, 17723), (233, 17726), (246, 17792), (260, 17867), (261, 17873), (263, 17891), (272, 17915), (273, 17921), (274, 17924), (291, 17957), (293, 17963), (301, 17993), (310, 18014), (316, 18044), (319, 18053), (323, 18068), (324, 18071), (346, 18182), (347, 18185), (348, 18194), (349, 18200), (352, 18215), (354, 18218), (362, 18239), (372, 18269), (375, 18281), (381, 18314), (399, 18425), (400, 18428), (405, 18455), (407, 18461), (420, 18515), (421, 18518), (445, 18620), (447, 18632), (448, 18635), (459, 18701), (464, 18725), (467, 18746), (469, 18755), (482, 18815), (483, 18818), (491, 18854), (494, 18872), (499, 18884), (501, 18893), (507, 18920), (521, 18977), (522, 18989), (525, 19007), (528, 19016), (530, 19028), (536, 19064), (544, 19094), (547, 19103), (549, 19115), (559, 19175), (565, 19229), (576, 19289), (581, 19331), (612, 19466), (616, 19490), (622, 19544), (626, 19592), (634, 19634), (636, 19658), (637, 19661),

Gene: Toto_26 Start: 22284, Stop: 24680, Start Num: 80

Candidate Starts for Toto_26:

(Start: 80 @22284 has 128 MA's), (157, 22461), (162, 22482), (220, 22629), (247, 22770), (254, 22803), (260, 22836), (268, 22872), (301, 22965), (319, 23025), (324, 23043), (357, 23199), (364, 23220), (390, 23340), (393, 23352), (399, 23397), (445, 23592), (448, 23607), (456, 23652), (458, 23667), (491, 23823), (494, 23841), (497, 23850), (525, 23979), (526, 23982), (564, 24192), (566, 24204), (591, 24318), (626, 24534), (637, 24618), (641, 24642), (643, 24651),

Gene: Traaww1_24 Start: 21929, Stop: 24325, Start Num: 80

Candidate Starts for Traaww1_24:

(Start: 80 @21929 has 128 MA's), (157, 22106), (162, 22127), (220, 22274), (247, 22415), (254, 22448), (260, 22481), (268, 22517), (301, 22610), (319, 22670), (324, 22688), (341, 22769), (393, 22997), (399, 23042), (445, 23237), (446, 23243), (448, 23252), (456, 23297), (458, 23312), (491, 23468), (494, 23486), (497, 23495), (509, 23549), (525, 23624), (526, 23627), (564, 23837), (566, 23849), (591, 23963), (626, 24179), (637, 24263), (641, 24287), (643, 24296),

Gene: TreyKay_27 Start: 20846, Stop: 23278, Start Num: 88

Candidate Starts for TreyKay_27:

(Start: 88 @20846 has 96 MA's), (132, 20945), (218, 21206), (263, 21434), (272, 21467), (276, 21497), (297, 21569), (303, 21593), (316, 21638), (346, 21791), (353, 21836), (356, 21848), (360, 21857), (371, 21893), (375, 21908), (406, 22088), (410, 22103), (424, 22172), (428, 22184), (440, 22247), (448, 22289), (456, 22328), (457, 22334), (458, 22343), (462, 22364), (475, 22424), (501, 22541), (509, 22583), (527, 22655), (529, 22664), (534, 22685), (548, 22757), (553, 22778), (565, 22874), (610, 23102), (626, 23249),

Gene: TruffulaTree_27 Start: 20875, Stop: 23307, Start Num: 88

Candidate Starts for TruffulaTree_27:

(Start: 88 @20875 has 96 MA's), (132, 20974), (218, 21235), (223, 21256), (263, 21463), (272, 21496), (276, 21526), (297, 21598), (303, 21622), (316, 21667), (346, 21820), (353, 21865), (356, 21877), (360, 21886), (375, 21937), (406, 22117), (410, 22132), (424, 22201), (428, 22213), (440, 22276), (448, 22318), (456, 22357), (457, 22363), (458, 22372), (462, 22393), (475, 22453), (501, 22570), (509, 22612), (527, 22684), (529, 22693), (534, 22714), (548, 22786), (553, 22807), (565, 22903), (576, 22966), (610, 23131), (626, 23278),

Gene: Tuco_27 Start: 22799, Stop: 25195, Start Num: 80

Candidate Starts for Tuco_27:

(Start: 80 @22799 has 128 MA's), (157, 22976), (162, 22997), (220, 23144), (247, 23285), (254, 23318), (260, 23351), (268, 23387), (301, 23480), (319, 23540), (324, 23558), (341, 23639), (393, 23867), (399, 23912), (445, 24107), (446, 24113), (448, 24122), (456, 24167), (458, 24182), (491, 24338), (494, 24356), (497, 24365), (509, 24419), (525, 24494), (526, 24497), (564, 24707), (566, 24719), (591, 24833), (626, 25049), (637, 25133), (641, 25157), (643, 25166),

Gene: Tweety_18 Start: 17451, Stop: 19988, Start Num: 43

Candidate Starts for Tweety_18:

(35, 17439), (Start: 43 @17451 has 236 MA's), (52, 17472), (Start: 60 @17493 has 1 MA's), (75, 17532), (109, 17601), (113, 17610), (115, 17613), (124, 17631), (138, 17664), (143, 17679), (160, 17727), (194, 17838), (195, 17841), (208, 17871), (212, 17886), (229, 17964), (233, 17988), (246, 18054), (255, 18099), (260, 18129), (261, 18135), (263, 18153), (272, 18177), (274, 18186), (291, 18219), (293, 18225), (301, 18255), (315, 18294), (316, 18306), (319, 18315), (323, 18330), (324, 18333), (346, 18444), (347, 18447), (348, 18456), (349, 18462), (352, 18477), (354, 18480), (362, 18501), (372, 18531), (375, 18543), (381, 18576), (393, 18642), (399, 18687), (400, 18690), (405, 18717), (407, 18723), (420, 18777), (421, 18780), (443, 18867), (445, 18882), (447, 18894), (448, 18897), (459, 18963), (464, 18987), (467, 19008), (469, 19017), (478, 19059), (482, 19077), (483, 19080), (491, 19116), (494, 19134), (499, 19146), (501, 19155), (507, 19182), (522, 19251), (525, 19269), (528, 19278), (530, 19290), (536, 19326), (544, 19356), (549, 19377), (556, 19401), (559, 19437), (565, 19491), (576, 19551), (581, 19593), (612, 19728), (616, 19752), (622, 19806), (626, 19854), (634, 19896), (636, 19920), (637, 19923),

Gene: Twitch_27 Start: 20912, Stop: 23344, Start Num: 88

Candidate Starts for Twitch_27:

(Start: 88 @20912 has 96 MA's), (132, 21011), (218, 21272), (223, 21293), (263, 21500), (272, 21533), (276, 21563), (297, 21635), (303, 21659), (346, 21857), (353, 21902), (356, 21914), (360, 21923), (375, 21974), (406, 22154), (410, 22169), (424, 22238), (428, 22250), (440, 22313), (448, 22355), (456, 22394), (457, 22400), (458, 22409), (462, 22430), (475, 22490), (501, 22607), (509, 22649), (527, 22721), (529, 22730), (534, 22751), (548, 22823), (553, 22844), (565, 22940), (594, 23087), (610, 23168), (626, 23315),

Gene: Ukulele_26 Start: 22042, Stop: 24438, Start Num: 80

Candidate Starts for Ukulele_26:

(Start: 80 @22042 has 128 MA's), (157, 22219), (162, 22240), (220, 22387), (254, 22561), (260, 22594), (268, 22630), (301, 22723), (319, 22783), (324, 22801), (350, 22933), (364, 22978), (393, 23110), (399, 23155), (416, 23215), (442, 23329), (445, 23350), (453, 23389), (456, 23410), (458, 23425), (489, 23575), (491, 23581), (494, 23599), (508, 23653), (525, 23737), (547, 23830), (591, 24076), (626, 24292), (637, 24376), (643, 24409),

Gene: UncleRicky_19 Start: 17219, Stop: 19756, Start Num: 43

Candidate Starts for UncleRicky_19:

(35, 17207), (Start: 43 @17219 has 236 MA's), (52, 17240), (Start: 60 @17261 has 1 MA's), (75, 17300), (109, 17369), (113, 17378), (115, 17381), (124, 17399), (138, 17432), (143, 17447), (160, 17495), (190, 17600), (195, 17609), (211, 17651), (212, 17654), (229, 17732), (233, 17756), (246,

17822), (255, 17867), (260, 17897), (261, 17903), (263, 17921), (272, 17945), (274, 17954), (291, 17987), (293, 17993), (301, 18023), (315, 18062), (316, 18074), (319, 18083), (323, 18098), (324, 18101), (346, 18212), (348, 18224), (349, 18230), (352, 18245), (354, 18248), (362, 18269), (372, 18299), (375, 18311), (381, 18344), (393, 18410), (399, 18455), (400, 18458), (405, 18485), (407, 18491), (420, 18545), (421, 18548), (428, 18575), (445, 18650), (447, 18662), (448, 18665), (459, 18731), (464, 18755), (469, 18785), (478, 18827), (482, 18845), (483, 18848), (491, 18884), (494, 18902), (501, 18923), (507, 18950), (522, 19019), (525, 19037), (528, 19046), (530, 19058), (536, 19094), (544, 19124), (547, 19133), (549, 19145), (559, 19205), (565, 19259), (576, 19319), (581, 19361), (601, 19439), (612, 19496), (616, 19520), (622, 19574), (626, 19622), (634, 19664), (636, 19688), (637, 19691),

Gene: Urkel_27 Start: 20840, Stop: 23272, Start Num: 88

Candidate Starts for Urkel_27:

(81, 20822), (Start: 88 @20840 has 96 MA's), (109, 20888), (132, 20939), (218, 21200), (223, 21221), (271, 21458), (272, 21461), (276, 21491), (277, 21494), (297, 21563), (303, 21587), (304, 21593), (308, 21599), (316, 21632), (346, 21785), (356, 21842), (360, 21851), (375, 21902), (406, 22082), (410, 22097), (424, 22166), (428, 22178), (434, 22214), (440, 22241), (448, 22283), (456, 22322), (457, 22328), (458, 22337), (462, 22358), (475, 22418), (482, 22451), (485, 22469), (501, 22535), (509, 22577), (527, 22649), (529, 22658), (534, 22679), (548, 22751), (565, 22868), (594, 23015), (610, 23096), (619, 23171), (626, 23243),

Gene: VRedHorse_18 Start: 17564, Stop: 20101, Start Num: 43

Candidate Starts for VRedHorse_18:

(35, 17552), (Start: 43 @17564 has 236 MA's), (52, 17585), (Start: 60 @17606 has 1 MA's), (74, 17642), (75, 17645), (109, 17714), (113, 17723), (115, 17726), (124, 17744), (138, 17777), (143, 17792), (160, 17840), (190, 17945), (194, 17951), (195, 17954), (211, 17996), (212, 17999), (233, 18101), (246, 18167), (255, 18212), (260, 18242), (261, 18248), (263, 18266), (272, 18290), (274, 18299), (291, 18332), (293, 18338), (310, 18389), (315, 18407), (316, 18419), (319, 18428), (323, 18443), (325, 18449), (346, 18557), (348, 18569), (349, 18575), (352, 18590), (354, 18593), (362, 18614), (372, 18644), (375, 18656), (381, 18689), (393, 18755), (399, 18800), (400, 18803), (405, 18830), (407, 18836), (420, 18890), (421, 18893), (445, 18995), (447, 19007), (448, 19010), (459, 19076), (464, 19100), (467, 19121), (469, 19130), (482, 19190), (483, 19193), (491, 19229), (494, 19247), (501, 19268), (507, 19295), (522, 19364), (525, 19382), (528, 19391), (530, 19403), (536, 19439), (549, 19490), (554, 19508), (559, 19550), (565, 19604), (581, 19706), (601, 19784), (612, 19841), (616, 19865), (622, 19919), (626, 19967), (636, 20033), (637, 20036),

Gene: Vagabond_58 Start: 35926, Stop: 38436, Start Num: 57

Candidate Starts for Vagabond_58:

(Start: 57 @35926 has 33 MA's), (69, 35959), (93, 36028), (95, 36031), (106, 36055), (115, 36079), (126, 36103), (138, 36136), (200, 36343), (203, 36355), (204, 36358), (237, 36505), (240, 36535), (246, 36559), (255, 36589), (256, 36592), (260, 36619), (263, 36643), (273, 36673), (296, 36730), (302, 36754), (315, 36790), (316, 36802), (323, 36826), (324, 36829), (332, 36871), (352, 36967), (354, 36970), (413, 37225), (445, 37369), (456, 37429), (466, 37501), (467, 37504), (488, 37600), (525, 37774), (530, 37795), (552, 37888), (555, 37900), (565, 37990), (579, 38065), (598, 38110), (630, 38311), (635, 38365), (640, 38380),

Gene: Veliki_27 Start: 20915, Stop: 23347, Start Num: 88

Candidate Starts for Veliki_27:

(Start: 88 @20915 has 96 MA's), (132, 21014), (218, 21275), (223, 21296), (263, 21503), (272, 21536), (276, 21566), (297, 21638), (303, 21662), (316, 21707), (346, 21860), (353, 21905), (356, 21917), (360, 21926), (375, 21977), (406, 22157), (410, 22172), (424, 22241), (428, 22253), (448, 22358), (456, 22397), (457, 22403), (458, 22412), (475, 22493), (484, 22541), (502, 22616), (509, 22652), (529, 22733), (534, 22754), (553, 22847), (565, 22943), (594, 23090), (602, 23132), (610, 23171),

(619, 23246),

Gene: Veteran_18 Start: 17402, Stop: 19939, Start Num: 43

Candidate Starts for Veteran_18:

(Start: 43 @17402 has 236 MA's), (52, 17423), (Start: 60 @17444 has 1 MA's), (75, 17483), (109, 17552), (113, 17561), (115, 17564), (124, 17582), (138, 17615), (143, 17630), (190, 17783), (195, 17792), (212, 17837), (232, 17936), (233, 17939), (246, 18005), (260, 18080), (261, 18086), (272, 18128), (273, 18134), (274, 18137), (291, 18170), (293, 18176), (301, 18206), (310, 18227), (316, 18257), (319, 18266), (323, 18281), (324, 18284), (346, 18395), (347, 18398), (348, 18407), (349, 18413), (352, 18428), (354, 18431), (362, 18452), (372, 18482), (375, 18494), (381, 18527), (399, 18638), (400, 18641), (405, 18668), (407, 18674), (420, 18728), (421, 18731), (443, 18818), (445, 18833), (447, 18845), (448, 18848), (459, 18914), (464, 18938), (467, 18959), (469, 18968), (478, 19010), (482, 19028), (483, 19031), (489, 19061), (494, 19085), (499, 19097), (501, 19106), (522, 19202), (525, 19220), (528, 19229), (530, 19241), (536, 19277), (544, 19307), (547, 19316), (549, 19328), (559, 19388), (565, 19442), (576, 19502), (581, 19544), (612, 19679), (616, 19703), (622, 19757), (626, 19805), (634, 19847), (636, 19871), (637, 19874),

Gene: Violac_19 Start: 17946, Stop: 20471, Start Num: 43

Candidate Starts for Violac_19:

(Start: 43 @17946 has 236 MA's), (52, 17967), (Start: 60 @17988 has 1 MA's), (75, 18027), (109, 18096), (113, 18105), (115, 18108), (124, 18126), (143, 18174), (160, 18222), (194, 18333), (195, 18336), (210, 18369), (212, 18381), (229, 18459), (240, 18525), (247, 18558), (258, 18612), (260, 18624), (272, 18672), (273, 18678), (274, 18681), (275, 18690), (294, 18723), (308, 18762), (310, 18765), (314, 18780), (315, 18783), (321, 18810), (322, 18816), (323, 18819), (324, 18822), (330, 18849), (333, 18867), (334, 18870), (348, 18945), (352, 18966), (354, 18969), (363, 18996), (372, 19020), (381, 19065), (382, 19068), (390, 19119), (400, 19182), (401, 19191), (407, 19215), (434, 19320), (435, 19323), (445, 19374), (446, 19380), (447, 19386), (448, 19389), (456, 19434), (458, 19449), (463, 19476), (467, 19500), (469, 19509), (482, 19569), (483, 19572), (484, 19584), (494, 19626), (499, 19638), (525, 19761), (538, 19824), (554, 19887), (561, 19962), (603, 20163), (626, 20334), (633, 20373), (639, 20412), (640, 20415),

Gene: Vivum_18 Start: 17344, Stop: 19881, Start Num: 43

Candidate Starts for Vivum_18:

(Start: 43 @17344 has 236 MA's), (52, 17365), (Start: 60 @17386 has 1 MA's), (75, 17425), (109, 17494), (113, 17503), (115, 17506), (124, 17524), (143, 17572), (190, 17725), (195, 17734), (212, 17779), (232, 17878), (233, 17881), (246, 17947), (260, 18022), (261, 18028), (263, 18046), (272, 18070), (273, 18076), (274, 18079), (291, 18112), (293, 18118), (301, 18148), (310, 18169), (316, 18199), (319, 18208), (323, 18223), (324, 18226), (346, 18337), (347, 18340), (348, 18349), (349, 18355), (352, 18370), (354, 18373), (362, 18394), (372, 18424), (375, 18436), (381, 18469), (399, 18580), (400, 18583), (405, 18610), (407, 18616), (420, 18670), (421, 18673), (445, 18775), (447, 18787), (448, 18790), (459, 18856), (464, 18880), (467, 18901), (469, 18910), (482, 18970), (483, 18973), (491, 19009), (494, 19027), (499, 19039), (501, 19048), (507, 19075), (521, 19132), (522, 19144), (525, 19162), (528, 19171), (530, 19183), (536, 19219), (544, 19249), (547, 19258), (549, 19270), (559, 19330), (565, 19384), (576, 19444), (581, 19486), (612, 19621), (616, 19645), (622, 19699), (626, 19747), (634, 19789), (636, 19813), (637, 19816),

Gene: Vorrrps_58 Start: 36138, Stop: 38648, Start Num: 57

Candidate Starts for Vorrrps_58:

(Start: 57 @36138 has 33 MA's), (69, 36171), (93, 36240), (95, 36243), (106, 36267), (115, 36291), (126, 36315), (138, 36348), (200, 36555), (203, 36567), (204, 36570), (237, 36717), (240, 36747), (246, 36771), (255, 36801), (256, 36804), (260, 36831), (263, 36855), (273, 36885), (296, 36942), (302, 36966), (315, 37002), (316, 37014), (323, 37038), (324, 37041), (332, 37083), (352, 37179), (354, 37182), (413, 37437), (445, 37581), (456, 37641), (466, 37713), (467, 37716), (488, 37812),

(525, 37986), (530, 38007), (552, 38100), (555, 38112), (565, 38202), (579, 38277), (598, 38322), (630, 38523), (635, 38577), (640, 38592),

Gene: Wachhund_18 Start: 17422, Stop: 19959, Start Num: 43

Candidate Starts for Wachhund_18:

(Start: 43 @17422 has 236 MA's), (52, 17443), (Start: 60 @17464 has 1 MA's), (75, 17503), (109, 17572), (113, 17581), (115, 17584), (124, 17602), (143, 17650), (194, 17809), (195, 17812), (212, 17857), (229, 17935), (232, 17956), (233, 17959), (246, 18025), (260, 18100), (261, 18106), (272, 18148), (273, 18154), (274, 18157), (291, 18190), (293, 18196), (301, 18226), (310, 18247), (316, 18277), (319, 18286), (342, 18394), (346, 18415), (347, 18418), (348, 18427), (349, 18433), (352, 18448), (354, 18451), (362, 18472), (372, 18502), (375, 18514), (381, 18547), (399, 18658), (400, 18661), (405, 18688), (407, 18694), (420, 18748), (421, 18751), (443, 18838), (445, 18853), (447, 18865), (448, 18868), (459, 18934), (467, 18979), (469, 18988), (482, 19048), (483, 19051), (491, 19087), (494, 19105), (499, 19117), (501, 19126), (507, 19153), (522, 19222), (525, 19240), (528, 19249), (530, 19261), (536, 19297), (544, 19327), (549, 19348), (556, 19372), (559, 19408), (565, 19462), (576, 19522), (581, 19564), (612, 19699), (616, 19723), (622, 19777), (626, 19825), (634, 19867), (636, 19891), (637, 19894),

Gene: Wanda_39 Start: 29807, Stop: 32362, Start Num: 43

Candidate Starts for Wanda_39:

(Start: 43 @29807 has 236 MA's), (124, 30002), (138, 30038), (143, 30053), (160, 30101), (194, 30212), (195, 30215), (208, 30245), (212, 30260), (229, 30338), (233, 30362), (246, 30428), (255, 30473), (260, 30503), (261, 30509), (263, 30527), (272, 30551), (274, 30560), (291, 30593), (293, 30599), (301, 30629), (315, 30668), (316, 30680), (319, 30689), (323, 30704), (324, 30707), (346, 30818), (347, 30821), (348, 30830), (349, 30836), (352, 30851), (354, 30854), (362, 30875), (372, 30905), (375, 30917), (381, 30950), (393, 31016), (399, 31061), (400, 31064), (405, 31091), (407, 31097), (420, 31151), (421, 31154), (443, 31241), (445, 31256), (447, 31268), (448, 31271), (459, 31337), (467, 31382), (469, 31391), (482, 31451), (483, 31454), (491, 31490), (494, 31508), (499, 31520), (501, 31529), (507, 31556), (522, 31625), (525, 31643), (528, 31652), (530, 31664), (536, 31700), (544, 31730), (549, 31751), (556, 31775), (559, 31811), (565, 31865), (576, 31925), (581, 31967), (612, 32102), (616, 32126), (622, 32180), (626, 32228), (634, 32270), (636, 32294), (637, 32297),

Gene: Wee_19 Start: 17971, Stop: 20508, Start Num: 43

Candidate Starts for Wee_19:

(35, 17959), (Start: 43 @17971 has 236 MA's), (52, 17992), (Start: 60 @18013 has 1 MA's), (75, 18052), (109, 18121), (113, 18130), (115, 18133), (124, 18151), (138, 18184), (143, 18199), (160, 18247), (190, 18352), (194, 18358), (195, 18361), (211, 18403), (212, 18406), (229, 18484), (246, 18574), (255, 18619), (260, 18649), (261, 18655), (263, 18673), (272, 18697), (274, 18706), (291, 18739), (293, 18745), (301, 18775), (315, 18814), (316, 18826), (319, 18835), (323, 18850), (324, 18853), (346, 18964), (347, 18967), (348, 18976), (349, 18982), (352, 18997), (354, 19000), (362, 19021), (372, 19051), (375, 19063), (381, 19096), (393, 19162), (399, 19207), (400, 19210), (405, 19237), (407, 19243), (420, 19297), (421, 19300), (443, 19387), (445, 19402), (447, 19414), (448, 19417), (459, 19483), (467, 19528), (469, 19537), (482, 19597), (483, 19600), (491, 19636), (494, 19654), (499, 19666), (501, 19675), (507, 19702), (522, 19771), (525, 19789), (528, 19798), (530, 19810), (536, 19846), (544, 19876), (549, 19897), (556, 19921), (559, 19957), (565, 20011), (576, 20071), (581, 20113), (612, 20248), (616, 20272), (622, 20326), (626, 20374), (634, 20416), (636, 20440), (637, 20443),

Gene: Whatsapiecost_18 Start: 17447, Stop: 19984, Start Num: 43

Candidate Starts for Whatsapiecost_18:

(35, 17435), (Start: 43 @17447 has 236 MA's), (52, 17468), (Start: 60 @17489 has 1 MA's), (75, 17528), (109, 17597), (113, 17606), (115, 17609), (124, 17627), (138, 17660), (143, 17675), (160,

17723), (194, 17834), (195, 17837), (208, 17867), (211, 17879), (212, 17882), (229, 17960), (233, 17984), (246, 18050), (255, 18095), (260, 18125), (261, 18131), (263, 18149), (272, 18173), (274, 18182), (291, 18215), (293, 18221), (301, 18251), (315, 18290), (316, 18302), (319, 18311), (323, 18326), (324, 18329), (346, 18440), (347, 18443), (348, 18452), (349, 18458), (352, 18473), (354, 18476), (362, 18497), (372, 18527), (375, 18539), (381, 18572), (399, 18683), (400, 18686), (405, 18713), (407, 18719), (420, 18773), (421, 18776), (445, 18878), (447, 18890), (448, 18893), (459, 18959), (464, 18983), (467, 19004), (469, 19013), (482, 19073), (483, 19076), (491, 19112), (494, 19130), (499, 19142), (501, 19151), (507, 19178), (522, 19247), (525, 19265), (528, 19274), (530, 19286), (536, 19322), (544, 19352), (549, 19373), (556, 19397), (559, 19433), (565, 19487), (576, 19547), (581, 19589), (601, 19667), (612, 19724), (616, 19748), (622, 19802), (626, 19850), (634, 19892), (636, 19916), (637, 19919),

Gene: Whouxphf_18 Start: 17504, Stop: 20041, Start Num: 43

Candidate Starts for Whouxphf_18:

(Start: 43 @17504 has 236 MA's), (52, 17525), (Start: 60 @17546 has 1 MA's), (75, 17585), (109, 17654), (113, 17663), (115, 17666), (124, 17684), (143, 17732), (194, 17891), (195, 17894), (212, 17939), (232, 18038), (233, 18041), (260, 18182), (261, 18188), (272, 18230), (273, 18236), (274, 18239), (291, 18272), (293, 18278), (301, 18308), (310, 18329), (316, 18359), (319, 18368), (342, 18476), (345, 18488), (346, 18497), (347, 18500), (348, 18509), (349, 18515), (352, 18530), (354, 18533), (362, 18554), (375, 18596), (381, 18629), (405, 18770), (407, 18776), (420, 18830), (421, 18833), (428, 18860), (445, 18935), (447, 18947), (448, 18950), (459, 19016), (464, 19040), (467, 19061), (469, 19070), (478, 19112), (482, 19130), (483, 19133), (489, 19163), (494, 19187), (501, 19208), (522, 19304), (525, 19322), (528, 19331), (530, 19343), (536, 19379), (544, 19409), (547, 19418), (549, 19430), (559, 19490), (581, 19646), (601, 19724), (612, 19781), (616, 19805), (622, 19859), (626, 19907), (631, 19928), (636, 19973), (637, 19976),

Gene: Wiggin_29 Start: 22788, Stop: 25184, Start Num: 80

Candidate Starts for Wiggin_29:

(Start: 80 @22788 has 128 MA's), (157, 22965), (162, 22986), (220, 23133), (254, 23307), (260, 23340), (268, 23376), (301, 23469), (319, 23529), (324, 23547), (350, 23679), (364, 23724), (393, 23856), (399, 23901), (416, 23961), (442, 24075), (445, 24096), (453, 24135), (456, 24156), (458, 24171), (489, 24321), (491, 24327), (494, 24345), (508, 24399), (525, 24483), (547, 24576), (591, 24822), (626, 25038), (637, 25122), (643, 25155),

Gene: Wildcat_43 Start: 28342, Stop: 30909, Start Num: 42

Candidate Starts for Wildcat_43:

(Start: 42 @28342 has 6 MA's), (69, 28411), (119, 28534), (123, 28540), (124, 28543), (136, 28567), (142, 28588), (190, 28744), (193, 28750), (195, 28756), (204, 28786), (206, 28792), (212, 28813), (214, 28822), (226, 28882), (242, 28960), (261, 29059), (269, 29092), (273, 29107), (274, 29110), (293, 29149), (310, 29200), (315, 29218), (319, 29239), (321, 29245), (328, 29272), (332, 29299), (346, 29368), (351, 29392), (357, 29413), (364, 29434), (368, 29443), (375, 29464), (381, 29497), (382, 29500), (390, 29551), (393, 29563), (403, 29629), (408, 29647), (417, 29686), (445, 29803), (454, 29848), (463, 29905), (467, 29929), (469, 29938), (472, 29956), (482, 30001), (489, 30034), (496, 30070), (535, 30244), (536, 30262), (538, 30268), (553, 30325), (611, 30649), (613, 30667), (620, 30718), (627, 30781), (636, 30856),

Gene: Wildflower_58 Start: 35650, Stop: 38160, Start Num: 57

Candidate Starts for Wildflower_58:

(Start: 57 @35650 has 33 MA's), (69, 35683), (93, 35752), (95, 35755), (106, 35779), (115, 35803), (126, 35827), (138, 35860), (200, 36067), (203, 36079), (204, 36082), (237, 36229), (240, 36259), (246, 36283), (255, 36313), (256, 36316), (260, 36343), (263, 36367), (273, 36397), (296, 36454), (315, 36514), (316, 36526), (323, 36550), (324, 36553), (332, 36595), (352, 36691), (354, 36694), (413, 36949), (445, 37093), (456, 37153), (466, 37225), (467, 37228), (488, 37324), (525, 37498),

(530, 37519), (552, 37612), (555, 37624), (565, 37714), (579, 37789), (598, 37834), (630, 38035), (635, 38089), (640, 38104),

Gene: WillSterrel_19 Start: 18757, Stop: 21294, Start Num: 43

Candidate Starts for WillSterrel_19:

(Start: 43 @18757 has 236 MA's), (52, 18778), (Start: 60 @18799 has 1 MA's), (75, 18838), (109, 18907), (113, 18916), (115, 18919), (124, 18937), (143, 18985), (190, 19138), (195, 19147), (212, 19192), (232, 19291), (233, 19294), (246, 19360), (260, 19435), (261, 19441), (263, 19459), (272, 19483), (273, 19489), (274, 19492), (291, 19525), (293, 19531), (301, 19561), (310, 19582), (316, 19612), (319, 19621), (323, 19636), (324, 19639), (346, 19750), (347, 19753), (348, 19762), (349, 19768), (352, 19783), (354, 19786), (362, 19807), (372, 19837), (375, 19849), (381, 19882), (399, 19993), (400, 19996), (405, 20023), (407, 20029), (420, 20083), (421, 20086), (443, 20173), (445, 20188), (447, 20200), (448, 20203), (459, 20269), (464, 20293), (467, 20314), (469, 20323), (482, 20383), (483, 20386), (491, 20422), (494, 20440), (499, 20452), (501, 20461), (507, 20488), (521, 20545), (522, 20557), (525, 20575), (528, 20584), (530, 20596), (536, 20632), (544, 20662), (547, 20671), (549, 20683), (559, 20743), (565, 20797), (576, 20857), (581, 20899), (612, 21034), (616, 21058), (622, 21112), (626, 21160), (634, 21202), (636, 21226), (637, 21229),

Gene: Willez_25 Start: 21788, Stop: 24184, Start Num: 80

Candidate Starts for Willez_25:

(Start: 80 @21788 has 128 MA's), (157, 21965), (162, 21986), (220, 22133), (247, 22274), (254, 22307), (260, 22340), (268, 22376), (301, 22469), (319, 22529), (324, 22547), (350, 22679), (364, 22724), (393, 22856), (399, 22901), (416, 22961), (442, 23075), (445, 23096), (453, 23135), (456, 23156), (458, 23171), (489, 23321), (491, 23327), (494, 23345), (508, 23399), (525, 23483), (547, 23576), (591, 23822), (626, 24038), (637, 24122), (643, 24155),

Gene: Winget_59 Start: 36356, Stop: 38866, Start Num: 57

Candidate Starts for Winget_59:

(Start: 57 @36356 has 33 MA's), (69, 36389), (93, 36458), (95, 36461), (106, 36485), (115, 36509), (126, 36533), (138, 36566), (200, 36773), (203, 36785), (204, 36788), (237, 36935), (240, 36965), (246, 36989), (255, 37019), (256, 37022), (260, 37049), (263, 37073), (273, 37103), (296, 37160), (302, 37184), (315, 37220), (316, 37232), (323, 37256), (324, 37259), (332, 37301), (352, 37397), (354, 37400), (413, 37655), (445, 37799), (456, 37859), (466, 37931), (467, 37934), (488, 38030), (525, 38204), (530, 38225), (552, 38318), (555, 38330), (565, 38420), (579, 38495), (598, 38540), (630, 38741), (635, 38795), (640, 38810),

Gene: Wogge42_57 Start: 35797, Stop: 38307, Start Num: 57

Candidate Starts for Wogge42_57:

(Start: 57 @35797 has 33 MA's), (69, 35830), (93, 35899), (95, 35902), (106, 35926), (115, 35950), (126, 35974), (138, 36007), (200, 36214), (203, 36226), (204, 36229), (237, 36376), (240, 36406), (246, 36430), (255, 36460), (256, 36463), (260, 36490), (263, 36514), (273, 36544), (296, 36601), (302, 36625), (315, 36661), (316, 36673), (323, 36697), (324, 36700), (332, 36742), (352, 36838), (354, 36841), (413, 37096), (445, 37240), (456, 37300), (466, 37372), (467, 37375), (488, 37471), (525, 37645), (530, 37666), (552, 37759), (555, 37771), (565, 37861), (579, 37936), (598, 37981), (630, 38182), (635, 38236), (640, 38251),

Gene: XFactor_18 Start: 17403, Stop: 19940, Start Num: 43

Candidate Starts for XFactor_18:

(35, 17391), (Start: 43 @17403 has 236 MA's), (52, 17424), (Start: 60 @17445 has 1 MA's), (75, 17484), (109, 17553), (113, 17562), (115, 17565), (124, 17583), (138, 17616), (143, 17631), (160, 17679), (194, 17790), (195, 17793), (208, 17823), (212, 17838), (229, 17916), (233, 17940), (246, 18006), (255, 18051), (260, 18081), (261, 18087), (263, 18105), (272, 18129), (274, 18138), (291, 18171), (293, 18177), (301, 18207), (315, 18246), (316, 18258), (319, 18267), (323, 18282), (324,

18285), (346, 18396), (347, 18399), (348, 18408), (349, 18414), (352, 18429), (354, 18432), (362, 18453), (372, 18483), (375, 18495), (381, 18528), (399, 18639), (400, 18642), (405, 18669), (407, 18675), (420, 18729), (421, 18732), (445, 18834), (447, 18846), (448, 18849), (459, 18915), (464, 18939), (467, 18960), (469, 18969), (482, 19029), (483, 19032), (491, 19068), (494, 19086), (499, 19098), (501, 19107), (507, 19134), (522, 19203), (525, 19221), (528, 19230), (530, 19242), (536, 19278), (544, 19308), (549, 19329), (556, 19353), (559, 19389), (565, 19443), (576, 19503), (581, 19545), (601, 19623), (612, 19680), (616, 19704), (622, 19758), (626, 19806), (634, 19848), (636, 19872), (637, 19875),

Gene: Xandras_28 Start: 22274, Stop: 24670, Start Num: 80

Candidate Starts for Xandras_28:

(Start: 80 @22274 has 128 MA's), (157, 22451), (162, 22472), (220, 22619), (254, 22793), (260, 22826), (268, 22862), (301, 22955), (319, 23015), (324, 23033), (350, 23165), (364, 23210), (393, 23342), (399, 23387), (416, 23447), (442, 23561), (445, 23582), (453, 23621), (456, 23642), (458, 23657), (489, 23807), (491, 23813), (494, 23831), (508, 23885), (525, 23969), (547, 24062), (591, 24308), (626, 24524), (637, 24608), (643, 24641),

Gene: YangYin_22 Start: 20852, Stop: 23308, Start Num: 39

Candidate Starts for YangYin_22:

(Start: 39 @20852 has 9 MA's), (94, 20996), (139, 21080), (155, 21110), (171, 21155), (219, 21314), (243, 21431), (304, 21653), (320, 21704), (345, 21821), (361, 21887), (383, 21971), (401, 22085), (420, 22175), (423, 22190), (425, 22196), (429, 22205), (434, 22244), (440, 22271), (443, 22283), (454, 22343), (456, 22358), (474, 22454), (478, 22466), (484, 22505), (516, 22640), (528, 22682), (534, 22709), (554, 22808), (571, 22946), (603, 23102), (623, 23246), (626, 23288),

Gene: YassJohnny_27 Start: 22799, Stop: 25195, Start Num: 80

Candidate Starts for YassJohnny_27:

(Start: 80 @22799 has 128 MA's), (157, 22976), (162, 22997), (220, 23144), (247, 23285), (254, 23318), (260, 23351), (268, 23387), (301, 23480), (319, 23540), (324, 23558), (350, 23690), (364, 23735), (393, 23867), (399, 23912), (442, 24086), (445, 24107), (453, 24146), (456, 24167), (458, 24182), (491, 24338), (494, 24356), (508, 24410), (525, 24494), (547, 24587), (591, 24833), (626, 25049), (637, 25133), (643, 25166),

Gene: Yorick_18 Start: 17404, Stop: 19956, Start Num: 43

Candidate Starts for Yorick_18:

(Start: 43 @17404 has 236 MA's), (75, 17485), (109, 17554), (113, 17563), (115, 17566), (124, 17584), (143, 17632), (159, 17677), (194, 17791), (195, 17794), (199, 17806), (209, 17827), (211, 17836), (212, 17839), (223, 17887), (229, 17917), (240, 17983), (247, 18016), (255, 18052), (259, 18076), (273, 18136), (274, 18139), (279, 18157), (308, 18220), (310, 18223), (315, 18241), (319, 18262), (324, 18280), (330, 18307), (334, 18328), (341, 18361), (348, 18403), (349, 18409), (350, 18412), (354, 18427), (363, 18454), (364, 18457), (372, 18478), (375, 18490), (381, 18523), (397, 18616), (420, 18724), (426, 18748), (428, 18754), (433, 18772), (434, 18775), (439, 18799), (445, 18829), (450, 18853), (456, 18889), (457, 18895), (458, 18904), (463, 18931), (473, 18994), (478, 19018), (479, 19033), (489, 19075), (502, 19126), (523, 19222), (525, 19237), (528, 19246), (533, 19270), (547, 19333), (556, 19369), (609, 19675), (616, 19720), (626, 19822),

Gene: Yoshi_24 Start: 17092, Stop: 19641, Start Num: 27

Candidate Starts for Yoshi_24:

(24, 17083), (Start: 27 @17092 has 7 MA's), (Start: 43 @17152 has 236 MA's), (56, 17185), (58, 17188), (90, 17257), (104, 17287), (179, 17467), (184, 17482), (195, 17518), (197, 17524), (210, 17545), (215, 17569), (222, 17593), (252, 17740), (255, 17749), (260, 17773), (263, 17797), (272, 17821), (273, 17827), (279, 17848), (293, 17869), (301, 17899), (312, 17929), (316, 17950), (338, 18043), (341, 18058), (342, 18067), (346, 18088), (347, 18091), (372, 18175), (373, 18178), (375,

18187), (382, 18223), (388, 18262), (391, 18283), (393, 18286), (398, 18322), (401, 18343), (420, 18421), (421, 18424), (436, 18478), (447, 18538), (462, 18625), (464, 18631), (466, 18649), (467, 18652), (476, 18688), (487, 18742), (489, 18751), (506, 18829), (509, 18847), (518, 18883), (519, 18886), (522, 18904), (523, 18907), (525, 18922), (536, 18979), (540, 18991), (556, 19054), (559, 19087), (569, 19174), (578, 19222), (580, 19246), (587, 19273), (591, 19282), (600, 19321), (608, 19360), (612, 19384), (615, 19405), (626, 19501), (631, 19522), (640, 19585), (643, 19612), (644, 19621),

Gene: Youngblood_26 Start: 22452, Stop: 24848, Start Num: 80

Candidate Starts for Youngblood_26:

(Start: 80 @22452 has 128 MA's), (157, 22629), (162, 22650), (220, 22797), (247, 22938), (254, 22971), (260, 23004), (268, 23040), (301, 23133), (319, 23193), (324, 23211), (350, 23343), (364, 23388), (393, 23520), (399, 23565), (416, 23625), (442, 23739), (445, 23760), (453, 23799), (456, 23820), (458, 23835), (491, 23991), (494, 24009), (508, 24063), (525, 24147), (547, 24240), (591, 24486), (626, 24702), (637, 24786), (643, 24819),

Gene: YoureAdopted_26 Start: 20848, Stop: 23280, Start Num: 88

Candidate Starts for YoureAdopted_26:

(Start: 88 @20848 has 96 MA's), (132, 20947), (218, 21208), (223, 21229), (263, 21436), (272, 21469), (276, 21499), (297, 21571), (303, 21595), (316, 21640), (346, 21793), (353, 21838), (356, 21850), (360, 21859), (375, 21910), (406, 22090), (410, 22105), (424, 22174), (428, 22186), (448, 22291), (456, 22330), (457, 22336), (458, 22345), (475, 22426), (484, 22474), (502, 22549), (509, 22585), (527, 22657), (529, 22666), (534, 22687), (553, 22780), (565, 22876), (594, 23023), (602, 23065), (610, 23104), (619, 23179),

Gene: YoyoKar_56 Start: 35640, Stop: 38150, Start Num: 57

Candidate Starts for YoyoKar_56:

(Start: 57 @35640 has 33 MA's), (69, 35673), (93, 35742), (95, 35745), (106, 35769), (115, 35793), (126, 35817), (138, 35850), (200, 36057), (203, 36069), (204, 36072), (237, 36219), (240, 36249), (246, 36273), (255, 36303), (256, 36306), (260, 36333), (263, 36357), (273, 36387), (296, 36444), (302, 36468), (315, 36504), (316, 36516), (323, 36540), (324, 36543), (332, 36585), (352, 36681), (354, 36684), (413, 36939), (445, 37083), (456, 37143), (466, 37215), (467, 37218), (488, 37314), (525, 37488), (530, 37509), (552, 37602), (555, 37614), (565, 37704), (579, 37779), (598, 37824), (630, 38025), (635, 38079), (640, 38094),

Gene: YungJamal_63 Start: 37548, Stop: 40058, Start Num: 57

Candidate Starts for YungJamal_63:

(Start: 57 @37548 has 33 MA's), (69, 37581), (93, 37650), (95, 37653), (106, 37677), (115, 37701), (126, 37725), (138, 37758), (200, 37965), (203, 37977), (204, 37980), (237, 38127), (240, 38157), (246, 38181), (255, 38211), (256, 38214), (260, 38241), (263, 38265), (273, 38295), (296, 38352), (315, 38412), (316, 38424), (323, 38448), (324, 38451), (332, 38493), (352, 38589), (354, 38592), (413, 38847), (445, 38991), (456, 39051), (466, 39123), (467, 39126), (488, 39222), (525, 39396), (530, 39417), (552, 39510), (555, 39522), (565, 39612), (579, 39687), (598, 39732), (630, 39933), (635, 39987), (640, 40002),

Gene: Yunkel11_27 Start: 20098, Stop: 22530, Start Num: 88

Candidate Starts for Yunkel11_27:

(Start: 88 @20098 has 96 MA's), (109, 20146), (110, 20149), (115, 20158), (218, 20458), (223, 20479), (272, 20719), (297, 20821), (303, 20845), (304, 20851), (316, 20890), (346, 21043), (356, 21100), (360, 21109), (375, 21160), (407, 21346), (410, 21355), (412, 21361), (420, 21406), (424, 21424), (440, 21499), (448, 21541), (456, 21580), (457, 21586), (458, 21595), (462, 21616), (471, 21664), (482, 21709), (484, 21724), (501, 21793), (509, 21835), (529, 21916), (548, 22009), (553, 22030), (565, 22126), (610, 22354), (617, 22408), (619, 22429), (626, 22501), (629, 22519),

Gene: Zabiza_27 Start: 20879, Stop: 23311, Start Num: 88

Candidate Starts for Zabiza_27:

(Start: 88 @20879 has 96 MA's), (132, 20978), (218, 21239), (223, 21260), (263, 21467), (272, 21500), (276, 21530), (297, 21602), (303, 21626), (316, 21671), (346, 21824), (353, 21869), (356, 21881), (360, 21890), (375, 21941), (406, 22121), (410, 22136), (424, 22205), (428, 22217), (448, 22322), (456, 22361), (457, 22367), (458, 22376), (475, 22457), (484, 22505), (502, 22580), (509, 22616), (529, 22697), (534, 22718), (553, 22811), (565, 22907), (594, 23054), (602, 23096), (610, 23135), (619, 23210),

Gene: Zakhe101_58 Start: 36194, Stop: 38704, Start Num: 57

Candidate Starts for Zakhe101_58:

(Start: 57 @36194 has 33 MA's), (69, 36227), (93, 36296), (95, 36299), (106, 36323), (115, 36347), (126, 36371), (138, 36404), (200, 36611), (203, 36623), (204, 36626), (237, 36773), (240, 36803), (246, 36827), (255, 36857), (256, 36860), (260, 36887), (263, 36911), (273, 36941), (296, 36998), (315, 37058), (316, 37070), (323, 37094), (324, 37097), (332, 37139), (352, 37235), (354, 37238), (413, 37493), (445, 37637), (456, 37697), (466, 37769), (467, 37772), (488, 37868), (525, 38042), (530, 38063), (552, 38156), (555, 38168), (565, 38258), (579, 38333), (598, 38378), (630, 38579), (635, 38633), (640, 38648),

Gene: Zapner_25 Start: 17617, Stop: 20169, Start Num: 27

Candidate Starts for Zapner_25:

(24, 17608), (Start: 27 @17617 has 7 MA's), (Start: 43 @17677 has 236 MA's), (58, 17713), (104, 17812), (160, 17953), (179, 17992), (184, 18007), (195, 18043), (197, 18049), (198, 18052), (210, 18070), (215, 18094), (222, 18118), (223, 18121), (252, 18265), (255, 18274), (260, 18298), (263, 18322), (272, 18346), (273, 18352), (279, 18373), (281, 18376), (293, 18394), (301, 18427), (312, 18457), (316, 18478), (338, 18571), (341, 18586), (342, 18595), (346, 18616), (347, 18619), (357, 18661), (372, 18703), (373, 18706), (375, 18715), (380, 18742), (382, 18751), (388, 18790), (391, 18811), (393, 18814), (398, 18850), (401, 18871), (420, 18949), (421, 18952), (436, 19006), (447, 19066), (462, 19153), (464, 19159), (467, 19180), (476, 19216), (487, 19270), (489, 19279), (506, 19357), (509, 19375), (518, 19411), (519, 19414), (522, 19432), (525, 19450), (536, 19507), (540, 19519), (556, 19582), (559, 19615), (569, 19702), (578, 19750), (580, 19774), (591, 19810), (600, 19849), (608, 19888), (612, 19912), (615, 19933), (626, 20029), (631, 20050), (638, 20110), (640, 20113), (643, 20140),

Gene: Zavala_27 Start: 20854, Stop: 23286, Start Num: 88

Candidate Starts for Zavala_27:

(Start: 88 @20854 has 96 MA's), (132, 20953), (218, 21214), (223, 21235), (263, 21442), (272, 21475), (276, 21505), (297, 21577), (303, 21601), (316, 21646), (346, 21799), (353, 21844), (356, 21856), (360, 21865), (375, 21916), (406, 22096), (410, 22111), (424, 22180), (428, 22192), (440, 22255), (448, 22297), (456, 22336), (457, 22342), (458, 22351), (462, 22372), (475, 22432), (501, 22549), (509, 22591), (527, 22663), (529, 22672), (534, 22693), (548, 22765), (553, 22786), (565, 22882), (576, 22945), (610, 23110), (626, 23257),

Gene: Zebo_58 Start: 36099, Stop: 38609, Start Num: 57

Candidate Starts for Zebo_58:

(Start: 57 @36099 has 33 MA's), (69, 36132), (93, 36201), (95, 36204), (106, 36228), (115, 36252), (126, 36276), (138, 36309), (200, 36516), (203, 36528), (204, 36531), (237, 36678), (240, 36708), (246, 36732), (255, 36762), (256, 36765), (260, 36792), (263, 36816), (273, 36846), (296, 36903), (302, 36927), (315, 36963), (316, 36975), (323, 36999), (324, 37002), (332, 37044), (352, 37140), (354, 37143), (413, 37398), (445, 37542), (456, 37602), (466, 37674), (467, 37677), (488, 37773), (525, 37947), (530, 37968), (552, 38061), (555, 38073), (565, 38163), (579, 38238), (598, 38283), (630, 38484), (635, 38538), (640, 38553),

Gene: Zerg_18 Start: 17367, Stop: 19904, Start Num: 43

Candidate Starts for Zerg_18:

(Start: 43 @17367 has 236 MA's), (83, 17457), (109, 17517), (113, 17526), (115, 17529), (124, 17547), (143, 17595), (190, 17748), (195, 17757), (212, 17802), (232, 17901), (233, 17904), (246, 17970), (260, 18045), (261, 18051), (263, 18069), (272, 18093), (273, 18099), (274, 18102), (291, 18135), (293, 18141), (301, 18171), (310, 18192), (316, 18222), (319, 18231), (323, 18246), (324, 18249), (346, 18360), (347, 18363), (348, 18372), (349, 18378), (352, 18393), (354, 18396), (362, 18417), (372, 18447), (375, 18459), (381, 18492), (399, 18603), (400, 18606), (405, 18633), (407, 18639), (420, 18693), (421, 18696), (443, 18783), (445, 18798), (447, 18810), (448, 18813), (459, 18879), (464, 18903), (467, 18924), (469, 18933), (482, 18993), (483, 18996), (491, 19032), (494, 19050), (499, 19062), (501, 19071), (507, 19098), (521, 19155), (522, 19167), (525, 19185), (528, 19194), (530, 19206), (536, 19242), (544, 19272), (547, 19281), (549, 19293), (559, 19353), (565, 19407), (576, 19467), (581, 19509), (612, 19644), (616, 19668), (622, 19722), (626, 19770), (634, 19812), (636, 19836), (637, 19839),

Gene: Zizzle_18 Start: 17375, Stop: 19900, Start Num: 43

Candidate Starts for Zizzle_18:

(Start: 43 @17375 has 236 MA's), (75, 17456), (109, 17525), (113, 17534), (115, 17537), (124, 17555), (143, 17603), (159, 17648), (194, 17762), (195, 17765), (210, 17798), (212, 17810), (229, 17888), (240, 17954), (247, 17987), (258, 18041), (260, 18053), (273, 18107), (274, 18110), (275, 18119), (294, 18152), (308, 18191), (310, 18194), (314, 18209), (315, 18212), (321, 18239), (322, 18245), (323, 18248), (324, 18251), (330, 18278), (333, 18296), (334, 18299), (348, 18374), (352, 18395), (354, 18398), (363, 18425), (372, 18449), (381, 18494), (382, 18497), (390, 18548), (400, 18611), (401, 18620), (407, 18644), (434, 18749), (435, 18752), (445, 18803), (446, 18809), (447, 18815), (448, 18818), (456, 18863), (458, 18878), (463, 18905), (467, 18929), (478, 18980), (482, 18998), (483, 19001), (484, 19013), (499, 19067), (525, 19190), (538, 19253), (554, 19316), (561, 19391), (603, 19592), (633, 19802), (639, 19841), (640, 19844),

Gene: xkcd_27 Start: 22453, Stop: 24849, Start Num: 80

Candidate Starts for xkcd_27:

(Start: 80 @22453 has 128 MA's), (157, 22630), (162, 22651), (220, 22798), (247, 22939), (254, 22972), (260, 23005), (268, 23041), (301, 23134), (319, 23194), (324, 23212), (350, 23344), (364, 23389), (393, 23521), (399, 23566), (442, 23740), (445, 23761), (453, 23800), (456, 23821), (458, 23836), (491, 23992), (494, 24010), (508, 24064), (525, 24148), (547, 24241), (591, 24487), (626, 24703), (637, 24787), (643, 24820),