

Zoomed Pham 330549

	6	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595
1: Farewell_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
2: Sparky_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
3: Zaria_16 + 1	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
4: Appletree2_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
5: Silverleaf_16 + 5	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
6: AvadaKedavra_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
7: JoeDirk_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
8: DirkDirk_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
9: Tyson_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
10: LeBron_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
11: OPIE_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
12: CicholasNage_16 + 1	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
13: Enceladus_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
14: Poochiewood_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
15: OnShagHennessy_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
16: Loadie_16 + 1	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
17: Underpass_16 + 1	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
18: DanBing_15	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
19: BigCheese_16 + 1	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
20: MkaiaMitinis3_16 + 1	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
21: Archie_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
22: Lewan_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
23: GuuetaD_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
24: Kahlid_16 + 1	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
25: Wigglewiggle_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
26: Gabriela_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
27: Zakai_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
28: Halay_16 + 2	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
29: Tourach_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
30: Baoshan_15	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
31: Hiraya_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
32: Bazzie_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
33: Finemucis_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
34: Molivier_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
35: Rossetti_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
36: DHan_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
37: Lynnae_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
38: Claus_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
39: ZhongYanYuan_16	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
40: Jubie_17 + 7	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
41: Krypton555_17	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
42: Elison_17	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
43: KirDoubleO7_15	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
44: Finny_17 + 3	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
45: Lolly9_17 + 1	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
46: DuncansLeg_17	24	36	99	93	91	1004	144	144	14	148	177	186	205	220	220	224	227	363	375	389	409	426	444	467	475	493	503	525	538	586	595	
47: MiniMac_17	24	36	99	93	91	1004	144	144	14	148	1																					

Zoomed Pham 330549

51: Douge_16 + 1	128	336	432	896	1024	1344	1408	1440	1472	1504	1792	1888	1984	2080	2176	2272	2368	2464	2560	2656	2752	2848	2944	3040	3136	3232	3328	3424	3520	3616	3712	3808	3904	4000	4096	4192	4288	4384	4480	4576	4672	4768	4864	4960	5056	5152	5248	5344	5440	5536	5632	5728	5824	5920	6016	6112	6208	6304	6400	6496	6592	6688	6784	6880	6976	7072	7168	7264	7360	7456	7552	7648	7744	7840	7936	8032	8128	8224	8320	8416	8512	8608	8704	8800	8896	8992	9088	9184	9280	9376	9472	9568	9664	9760	9856	9952	10048	10144	10240	10336	10432	10528	10624	10720	10816	10912	11008	11104	11200	11296	11392	11488	11584	11680	11776	11872	11968	12064	12160	12256	12352	12448	12544	12640	12736	12832	12928	13024	13120	13216	13312	13408	13504	13600	13696	13792	13888	13984	14080	14176	14272	14368	14464	14560	14656	14752	14848	14944	15040	15136	15232	15328	15424	15520	15616	15712	15808	15904	16000	16096	16192	16288	16384	16480	16576	16672	16768	16864	16960	17056	17152	17248	17344	17440	17536	17632	17728	17824	17920	18016	18112	18208	18304	18400	18496	18592	18688	18784	18880	18976	19072	19168	19264	19360	19456	19552	19648	19744	19840	19936	20032	20128	20224	20320	20416	20512	20608	20704	20800	20896	20992	21088	21184	21280	21376	21472	21568	21664	21760	21856	21952	22048	22144	22240	22336	22432	22528	22624	22720	22816	22912	23008	23104	23200	23296	23392	23488	23584	23680	23776	23872	23968	24064	24160	24256	24352	24448	24544	24640	24736	24832	24928	25024	25120	25216	25312	25408	25504	25600	25696	25792	25888	25984	26080	26176	26272	26368	26464	26560	26656	26752	26848	26944	27040	27136	27232	27328	27424	27520	27616	27712	27808	27904	28000	28096	28192	28288	28384	28480	28576	28672	28768	28864	28960	29056	29152	29248	29344	29440	29536	29632	29728	29824	29920	30016	30112	30208	30304	30400	30496	30592	30688	30784	30880	30976	31072	31168	31264	31360	31456	31552	31648	31744	31840	31936	32032	32128	32224	32320	32416	32512	32608	32704	32800	32896	32992	33088	33184	33280	33376	33472	33568	33664	33760	33856	33952	34048	34144	34240	34336	34432	34528	34624	34720	34816	34912	35008	35104	35200	35296	35392	35488	35584	35680	35776	35872	35968	36064	36160	36256	36352	36448	36544	36640	36736	36832	36928	37024	37120	37216	37312	37408	37504	37600	37696	37792	37888	37984	38080	38176	38272	38368	38464	38560	38656	38752	38848	38944	39040	39136	39232	39328	39424	39520	39616	39712	39808	39904	40000	40096	40192	40288	40384	40480	40576	40672	40768	40864	40960	41056	41152	41248	41344	41440	41536	41632	41728	41824	41920	42016	42112	42208	42304	42400	42496	42592	42688	42784	42880	42976	43072	43168	43264	43360	43456	43552	43648	43744	43840	43936	44032	44128	44224	44320	44416	44512	44608	44704	44800	44896	44992	45088	45184	45280	45376	45472	45568	45664	45760	45856	45952	46048	46144	46240	46336	46432	46528	46624	46720	46816	46912	47008	47104	47200	47296	47392	47488	47584	47680	47776	47872	47968	48064	48160	48256	48352	48448	48544	48640	48736	48832	48928	49024	49120	49216	49312	49408	49504	49600	49696	49792	49888	49984	50080	50176	50272	50368	50464	50560	50656	50752	50848	50944	51040	51136	51232	51328	51424	51520	51616	51712	51808	51904	52000	52096	52192	52288	52384	52480	52576	52672	52768	52864	52960	53056	53152	53248	53344	53440	53536	53632	53728	53824	53920	54016	54112	54208	54304	54400	54496	54592	54688	54784	54880	54976	55072	55168	55264	55360	55456	55552	55648	55744	55840	55936	56032	56128	56224	56320	56416	56512	56608	56704	56800	56896	56992	57088	57184	57280	57376	57472	57568	57664	57760	57856	57952	58048	58144	58240	58336	58432	58528	58624	58720	58816	58912	59008	59104	59200	59296	59392	59488	59584	59680	59776	59872	59968	60064	60160	60256	60352	60448	60544	60640	60736	60832	60928	61024	61120	61216	61312	61408	61504	61600	61696	61792	61888	61984	62080	62176	62272	62368	62464	62560	62656	62752	62848	62944	63040	63136	63232	63328	63424	63520	63616	63712	63808	63904	64000	64096	64192	64288	64384	64480	64576	64672	64768	64864	64960	65056	65152	65248	65344	65440	65536	65632	65728	65824	65920	66016	66112	66208	66304	66400	66496	66592	66688	66784	66880	66976	67072	67168	67264	67360	67456	67552	67648	67744	67840	67936	68032	68128	68224	68320	68416	68512	68608	68704	68800	68896	68992	69088	69184	69280	69376	69472	69568	69664	69760	69856	69952	70048	70144	70240	70336	70432	70528	70624	70720	70816	70912	71008	71104	71200	71296	71392	71488	71584	71680	71776	71872	71968	72064	72160	72256	72352	72448	72544	72640	72736	72832	72928	73024	73120	73216	73312	73408	73504	73600	73696	73792	73888	73984	74080	74176	74272	74368	74464	74560	74656	74752	74848	74944	75040	75136	75232	75328	75424	75520	75616	75712	75808	75904	76000	76096	76192	76288	76384	76480	76576	76672	76768	76864	76960	77056	77152	77248	77344	77440	77536	77632	77728	77824	77920	78016	78112	78208	78304	78400	78496	78592	78688	78784	78880	78976	79072	79168	79264	79360	79456	79552	79648	79744	79840	79936	80032	80128	80224	80320	80416	80512	80608	80704	80800	80896	80992	81088	81184	81280	81376	81472	81568	81664	81760	81856	81952	82048	82144	82240	82336	82432	82528	82624	82720	82816	82912	83008	83104	83200	83296	83392	83488	83584	83680	83776	83872	83968	84064	84160	84256	84352	84448	84544	84640	84736	84832	84928	85024	85120	85216	85312	85408	85504	85600	85696	85792	85888	85984	86080	86176	86272	86368	86464	86560	86656	86752	86848	86944	87040	87136	87232	87328	87424	87520	87616	87712	87808	87904	88000	88096	88192	88288	88384	88480	88576	88672	88768	88864	88960	89056	89152	89248	89344	89440	89536	89632	89728	89824	89920	90016	90112	90208	90304	90400	90496	90592	90688	90784	90880	90976	91072	91168	91264	91360	91456	91552	91648	91744	91840	91936	92032	92128	92224	92320	92416	92512	92608	92704	92800	92896	92992	93088	93184	93280	93376	93472	93568	93664	93760	93856	93952	94048	94144	94240	94336	94432	94528	94624	94720	94816	94912	95008	95104	95200	95296	95392	95488	95584	95680	95776	95872	95968	96064	96160	96256	96352	96448	96544	96640	96736	96832	96928	97024	97120	97216	97312	97408	97504	97600	97696	97792	97888	97984	98080	98176	98272	98368	98464	98560	98656	98752	98848	98944	99040	99136	99232	99328	99424	99520	99616	99712	99808	99904	100000	100096	100192	100288	100384	100480	100576	100672	100768	100864	100960	101056	101152	101248	101344	101440	101536	101632	101728	101824	101920	102016	102112	102208	102304	102400	102496	102592	102688	102784	102880	102976	103072	103168	103264	103360	103456	103552	103648	103744	103840	103936	104032	104128	104224	104320	104416	104512	104608	104704	104800	104896	104992	105088	105184	105280	105376	105472	105568	105664	105760	105856	105952	106048	106144	106240	106336	106432	106528	106624	106720	106816	106912	107008	107104	107200	107296	107392	107488	107584	107680	107776	107872	107968	108064	108160	108256	108352	108448	108544	108640	108736	108832	108928	109024	109120	109216	109312	109408	109504	109600	109696	109792	109888	109984	110080	110176	110272	110368	110464	110560	110656	110752	110848	110944	111040	111136	111232	111328	111424	111520	111616	111712	111808	111904	112000	112096	112192	112288	112384	112480	112576	112672	112768	112864	112960	113056	113152	113248	113344	113440	113536	113632	113728	113824	113920	114016	114112	114208	114304	114400	114496	114592	114688	114784	114880	114976	115072	115168	115264	115360	115456	115552	115648	115744	115840	115936	116032	116128	116224	116320	116416	116512	116608	116704	116800	116896	116992	117088	117184	117280	117376	117472	117568	117664	117760	117856
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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 330549 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330549 has 163 members, 28 are drafts.

Phages represented in each track:

- Track 1 : Farewell_14
- Track 2 : Sparky_14
- Track 3 : Zaria_16, Calm_16
- Track 4 : Appletree2_16
- Track 5 : Silverleaf_16, Rose5_16, Acquire49_16, Wyatt2_16, Halena_16, MAckerman_16
- Track 6 : AvadaKedavra_16
- Track 7 : JoeDirt_16
- Track 8 : DirkDirk_16
- Track 9 : Tyson_16
- Track 10 : LeBron_16
- Track 11 : UPIE_16
- Track 12 : CicholasNage_16, Wamburggrxpress_16
- Track 13 : Enceladus_16
- Track 14 : Poochiewood_16
- Track 15 : OhShagHennessy_16
- Track 16 : Loadrie_16, OverPar_16
- Track 17 : Underpass_16, LilDestine_16, Nicholasp3_16, Vetrix_16, Crossroads_16, ChengKai98_16, Gardann_16, Rumpelstiltskin_16
- Track 18 : DanBing_15
- Track 19 : BigCheese_16, Faith1_16, Miley16_16, BobsGarage_16, DrSeegs_16, SoJulia_16, Itos_16, Winky_16, Breezona_16, Netyap_16
- Track 20 : MkalMitinis3_16
- Track 21 : Archie_16
- Track 22 : Lewan_16
- Track 23 : GuuelaD_16
- Track 24 : Kahlid_16, Wilder_16
- Track 25 : Wigglewiggles_16
- Track 26 : Gabriela_16
- Track 27 : Zakai_16
- Track 28 : Hafay_16, Soap141_16, Sarshaun_16
- Track 29 : Tourach_16
- Track 30 : Baoshan_15
- Track 31 : Hiraya_16
- Track 32 : Bazzle_16
- Track 33 : Finemlucis_16
- Track 34 : Molivier_16

- Track 35 : Rossetti_16
- Track 36 : DHan_16
- Track 37 : Lynnae_16
- Track 38 : Claus_16
- Track 39 : ZhongYanYuan_15
- Track 40 : Jubie_17, Kingsolomon_17, TriFive_17, Snenia_17, Jobypre_17, Nicholas_17, Red305_17, Lumos_17
- Track 41 : Krypton555_17
- Track 42 : Ellson_17
- Track 43 : KirDoubleO7_15, BourbonZero_16, LiyuLake_17
- Track 44 : Finnry_17, Moostard_17, Bellis_17, Samty_17
- Track 45 : Lolly9_17, MiniLon_17
- Track 46 : DuncansLeg_17
- Track 47 : MiniMac_17
- Track 48 : MsGreen_17, Clautastrophe_17
- Track 49 : Whirlwind_18
- Track 50 : BrainDrainer_17
- Track 51 : Douge_16, Quby_16
- Track 52 : ChutneyChips_16
- Track 53 : FarmResident_16
- Track 54 : Douzhi_16, Sheng711_16, PYPDinur_16
- Track 55 : Chaser_16
- Track 56 : Kropertea_16
- Track 57 : Bromden_17
- Track 58 : DyoEdafos_17
- Track 59 : Baudelaire_16, Aegeus_16
- Track 60 : LilhomieP_25, Auspice_26, TyDawg_26, IPhane7_26, Dulcita_27, Glaske16_27, Bongo_26, Skinny_27, Izel_27, PegLeg_26, TpudiCK_27, Diminimus_27, FreakyGoo_27
- Track 61 : RoseMarie_26
- Track 62 : KleverKiS_26, SlimJimmy_25
- Track 63 : Reindeer_24
- Track 64 : Bricole_26
- Track 65 : Rey_30
- Track 66 : GenevaB15_30, Aziz_30
- Track 67 : MrMagoo_30, GardenSalsa_30
- Track 68 : Estes_31
- Track 69 : Nanosmite_30
- Track 70 : Corazon_46, GoongGoong_47, Huphlepuuff_50, Marvin_46, Lilbit_47
- Track 71 : Blackbeetle_48, Poise_48
- Track 72 : Clarkson_49
- Track 73 : Pringar_48
- Track 74 : VasuNzinga_48
- Track 75 : JoieB_49
- Track 76 : FeliMaine_50
- Track 77 : Beelzebub_52
- Track 78 : MosMoris_46
- Track 79 : Caprice_47
- Track 80 : Raela_48
- Track 81 : Tesla_47
- Track 82 : RedRaider77_48
- Track 83 : Gattaca_47
- Track 84 : LittleLaf_48

- Track 85 : Whitty_17, RonRayGun_17, Bernal13_17, ZenTime222_17, Nairb_17, Ibrahim_17
- Track 86 : Mendokysei_16, Nette_17
- Track 87 : Cosmo_38
- Track 88 : MaryV_38, Wildcat_38
- Track 89 : Azrael100_37
- Track 90 : EniyanLRS_35
- Track 91 : Kumao_26

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

The start number called the most often in the published annotations is 17, it was called in 104 of the 135 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acquire49_16, Aegeus_16, Appletree2_16, Archie_16, Auspice_26, AvadaKedavra_16, Aziz_30, Azrael100_37, Baoshan_15, Baudelaire_16, Bellis_17, BigCheese_16, BobsGarage_16, Bongo_26, BourbonZero_16, BrainDrainer_17, Breezona_16, Bricole_26, Bromden_17, Calm_16, Chaser_16, ChengKai98_16, ChutneyChips_16, CicholasNage_16, Claus_16, Clautastrophe_17, Cosmo_38, Crossroads_16, DHan_16, DanBing_15, Diminimus_27, DirkDirk_16, Douge_16, Douzhi_16, DrSeegs_16, Dulcita_27, DuncansLeg_17, DyoEdafos_17, Ellson_17, Enceladus_16, EniyanLRS_35, Estes_31, Faith1_16, FarmResident_16, Finemlucis_16, Finnry_17, FreakyGoo_27, Gabriela_16, Gardann_16, GardenSalsa_30, GenevaB15_30, Glaske16_27, GuuelaD_16, Hafay_16, Halena_16, Hiraya_16, IPHane7_26, Itos_16, Izel_27, Jobypre_17, JoeDirt_16, Jubie_17, Kahlid_16, Kingsolomon_17, KirDoubleO7_15, KleverKiS_26, Kropertea_16, Krypton555_17, LeBron_16, Lewan_16, LilDestine_16, LilhomieP_25, LiyuLake_17, Loadrie_16, Lolly9_17, Lumos_17, Lynnae_16, Mackerman_16, MaryV_38, Miley16_16, MiniLon_17, MiniMac_17, MkaliMitinis3_16, Molivier_16, Moostard_17, MrMagoo_30, MsGreen_17, Nanosmite_30, Netyap_16, Nicholas_17, Nicholasp3_16, OhShagHennessy_16, OverPar_16, PYPDinur_16, PegLeg_26, Poochiewood_16, Quby_16, Red305_17, Reindeer_24, Rey_30, Rose5_16, RoseMarie_26, Rossetti_16, Rumpelstiltskin_16, Samty_17, Sarshaun_16, Sheng711_16, Silverleaf_16, Skinny_27, SlimJimmy_25, Snenia_17, SoJulia_16, Soap141_16, Tourach_16, TpudiCK_27, TriFive_17, TyDawg_26, Tyson_16, UPIE_16, Underpass_16, Vetrix_16, Wamburggrxpress_16, Whirlwind_18, Wigglewiggles_16, Wildcat_38, Wilder_16, Winky_16, Wyatt2_16, Zakai_16, Zaria_16,

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

- Bazzle_16, ZhongYanYuan_15,

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

- Beelzebub_52, Bernal13_17, Blackbeetle_48, Caprice_47, Clarkson_49, Corazon_46, Farewell_14, FeliMaine_50, Gattaca_47, GoongGoong_47, Huphlepuuff_50, Ibrahim_17, JoieB_49, Kumao_26, Lilbit_47, LittleLaf_48, Marvin_46, Mendokysei_16, MosMoris_46, Nairb_17, Nette_17, Poise_48, Pringar_48, Raela_48, RedRaider77_48, RonRayGun_17, Sparky_14, Tesla_47, VasuNzinga_48, Whitty_17, ZenTime222_17,

Summary by start number:

Start 1:

- Found in 20 of 163 (12.3%) of genes in pham
- Manual Annotations of this start: 18 of 135
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Blackbeetle_48 (S), Caprice_47 (S), Clarkson_49 (S), Corazon_46 (S), FeliMaine_50 (S), Gattaca_47 (S), GoongGoong_47 (S), Huphlepuuff_50 (S), JoieB_49 (S), Lilbit_47 (S), Marvin_46 (S), MosMoris_46 (S), Poise_48 (S), Pringar_48 (S), Raela_48 (S), RedRaider77_48 (S), Tesla_47 (S), VasuNzinga_48 (S),

Start 2:

- Found in 20 of 163 (12.3%) of genes in pham
- Manual Annotations of this start: 2 of 135
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_52 (S), LittleLaf_48 (S),

Start 6:

- Found in 2 of 163 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_14 (AF), Sparky_14 (AF),

Start 16:

- Found in 21 of 163 (12.9%) of genes in pham
- Manual Annotations of this start: 1 of 135
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Kumao_26 (singleton),

Start 17:

- Found in 132 of 163 (81.0%) of genes in pham
- Manual Annotations of this start: 104 of 135
- Called 98.5% of time when present
- Phage (with cluster) where this start called: Acquire49_16 (L1), Aegeus_16 (L5), Appletree2_16 (L1), Archie_16 (L2), Auspice_26 (M1), AvadaKedavra_16 (L1), Aziz_30 (M2), Azrael100_37 (V), Baoshan_15 (L2), Baudelaire_16 (L5), Bellis_17 (L3), BigCheese_16 (L2), BobsGarage_16 (L2), Bongo_26 (M1), BourbonZero_16 (L3), BrainDrainer_17 (L4), Breezona_16 (L2), Bricole_26 (M1), Bromden_17 (L4), Calm_16 (L1), Chaser_16 (L4), ChengKai98_16 (L2), ChutneyChips_16 (L4), CicholasNage_16 (L1), Claus_16 (L2), Clautastrophe_17 (L3), Cosmo_38 (V), Crossroads_16 (L2), DHan_16 (L2), DanBing_15 (L2), Diminimus_27 (M1), DirkDirk_16 (L1), Douge_16 (L4), Douzhi_16 (L4), DrSeegs_16 (L2), Dulcita_27 (M1), DuncansLeg_17 (L3), DyoEdafos_17 (L4), Ellson_17 (L3), Enceladus_16 (L1), EniyanLRS_35 (V), Estes_31 (M2), Faith1_16 (L2), FarmResident_16 (L4), Finemlucis_16 (L2), Finnry_17 (L3), FreakyGoo_27 (M1), Gabriela_16 (L2), Gardann_16 (L2), GardenSalsa_30 (M2), GenevaB15_30 (M2), Glaske16_27 (M1), GuuelaD_16 (L2), Hafay_16 (L2), Halena_16 (L1), Hiraya_16 (L2), IPhane7_26 (M1), Itos_16 (L2), Izel_27 (M1), Jobypre_17 (L3), JoeDirt_16 (L1), Jubie_17 (L3), Kahlid_16 (L2), Kingsolomon_17 (L3), KirDoubleO7_15 (L3), KleverKiS_26 (M1), Kropertea_16 (L4), Krypton555_17 (L3), LeBron_16 (L1), Lewan_16 (L2), LilDestine_16 (L2), LilhomieP_25 (M1), LiyuLake_17 (L3), Loadrie_16 (L2), Lolly9_17 (L3), Lumos_17 (L3), Lynnae_16 (L2), MAckerman_16 (L1), MaryV_38 (V),

Miley16_16 (L2), MiniLon_17 (L3), MiniMac_17 (L3), MkaliMitinis3_16 (L2), Molivier_16 (L2), Moostard_17 (L3), MrMagoo_30 (M2), MsGreen_17 (L3), Nanosmite_30 (M3), Netyap_16 (L2), Nicholas_17 (L3), Nicholasp3_16 (L2), OhShagHennessy_16 (L1), OverPar_16 (L2), PYPDinur_16 (L4), PegLeg_26 (M1), Poochiewood_16 (L1), Quby_16 (L4), Red305_17 (L3), Reindeer_24 (M1), Rey_30 (M2), Rose5_16 (L1), RoseMarie_26 (M1), Rossetti_16 (L2), Rumpelstiltskin_16 (L2), Samty_17 (L3), Sarshaun_16 (L2), Sheng711_16 (L4), Silverleaf_16 (L1), Skinny_27 (M1), SlimJimmy_25 (M1), Snenia_17 (L3), SoJulia_16 (L2), Soap141_16 (L2), Tourach_16 (L2), TpudiCK_27 (M1), TriFive_17 (L3), TyDawg_26 (M1), Tyson_16 (L1), UPIE_16 (L1), Underpass_16 (L2), Vetrix_16 (L2), Wamburggrxpress_16 (L1), Whirlwind_18 (L3), Wigglewiggles_16 (L2), Wildcat_38 (V), Wilder_16 (L2), Winky_16 (L2), Wyatt2_16 (L1), Zakai_16 (L2), Zaria_16 (L1),

Start 22:

- Found in 63 of 163 (38.7%) of genes in pham
- Manual Annotations of this start: 1 of 135
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Bazzle_16 (L2),

Start 29:

- Found in 44 of 163 (27.0%) of genes in pham
- No Manual Annotations of this start.
- Called 2.3% of time when present
- Phage (with cluster) where this start called: ZhongYanYuan_15 (L2),

Start 76:

- Found in 3 of 163 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 135
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Mendokysei_16 (T), Nette_17 (T),

Start 77:

- Found in 6 of 163 (3.7%) of genes in pham
- Manual Annotations of this start: 6 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bernal13_17 (T), Ibrahim_17 (T), Nairb_17 (T), RonRayGun_17 (T), Whitty_17 (T), ZenTime222_17 (T),

Summary by clusters:

There are 13 clusters represented in this pham: singleton, AF, V, L4, S, L5, M1, L3, M3, L1, L2, M2, T,

Info for manual annotations of cluster AF:

- Start number 6 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster L1:

- Start number 17 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 17 was manually annotated 31 times for cluster L2.
- Start number 22 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:

- Start number 17 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 17 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 17 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M1:

- Start number 17 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 17 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 17 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster S:

- Start number 1 was manually annotated 18 times for cluster S.
- Start number 2 was manually annotated 2 times for cluster S.

Info for manual annotations of cluster T:

- Start number 76 was manually annotated 1 time for cluster T.
- Start number 77 was manually annotated 6 times for cluster T.

Info for manual annotations of cluster V:

- Start number 17 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Acquire49_16 Start: 10836, Stop: 15776, Start Num: 17

Candidate Starts for Acquire49_16:

(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Aegeus_16 Start: 10445, Stop: 15349, Start Num: 17

Candidate Starts for Aegeus_16:

(Start: 17 @10445 has 104 MA's), (21, 10475), (25, 10493), (34, 10583), (49, 10712), (54, 10739), (55, 10742), (57, 10760), (62, 10781), (64, 10790), (69, 10811), (72, 10826), (73, 10829), (74, 10832), (84, 10874), (94, 10961), (97, 10979), (99, 11000), (101, 11033), (102, 11042), (104, 11054), (108, 11087), (109, 11090), (114, 11150), (132, 11288), (133, 11297), (140, 11360), (146, 11411), (167, 11570), (176, 11669), (179, 11684), (180, 11690), (184, 11723), (188, 11744), (189, 11747), (193, 11819), (194, 11828), (199, 11870), (201, 11915), (203, 11918), (205, 11927), (207, 11948), (211, 12020), (214, 12050), (215, 12059), (225, 12107), (226, 12113), (227, 12116), (230, 12137), (231, 12155), (248, 12227), (253, 12245), (269, 12302), (272, 12320), (273, 12323), (286, 12371), (288, 12374), (290, 12383), (303, 12446), (316, 12494), (321, 12515), (338, 12605), (341, 12614), (354, 12662), (387, 12848), (401, 12911), (405, 12914), (409, 12923), (420, 12977), (424, 12995), (427, 13007), (449, 13130), (472, 13220), (476, 13250), (480, 13283), (485, 13316), (486, 13319), (499, 13385), (500, 13388), (537, 13454), (590, 13532), (607, 13592), (628, 13664), (634, 13676), (638, 13703), (655, 13754), (669, 13790), (678, 13823), (687, 13874), (689, 13880), (695, 13910), (697, 13919), (703, 13958), (714, 13991), (719, 14012), (724, 14030), (733, 14072), (736, 14084), (739, 14102), (744, 14120), (751, 14150), (768, 14225), (780, 14282), (787, 14321), (800, 14372), (814, 14453), (815, 14456), (822, 14489), (825, 14501), (826, 14537), (834, 14561), (838, 14585), (856, 14660), (864, 14756), (869, 14786), (872, 14807), (877, 14828), (889, 14951), (898, 14996), (899, 15002), (916, 15107), (921, 15131), (923, 15140), (924, 15143), (926, 15155), (931, 15194), (932, 15197), (937, 15242), (939, 15245), (945, 15335), (947, 15341),

Gene: Appletree2_16 Start: 10810, Stop: 15729, Start Num: 17

Candidate Starts for Appletree2_16:

(Start: 17 @10810 has 104 MA's), (21, 10840), (Start: 22 @10846 has 1 MA's), (23, 10849), (33, 10957), (41, 11017), (44, 11038), (47, 11074), (52, 11101), (53, 11104), (56, 11125), (57, 11134), (60, 11149), (65, 11176), (69, 11185), (71, 11197), (73, 11203), (79, 11227), (82, 11239), (85, 11251), (86, 11254), (88, 11269), (90, 11311), (95, 11338), (97, 11353), (108, 11461), (117, 11545), (125, 11608), (130, 11650), (133, 11671), (140, 11734), (151, 11812), (157, 11863), (165, 11932), (178, 12055), (180, 12064), (183, 12088), (184, 12097), (188, 12118), (189, 12121), (195, 12211), (205, 12301), (207, 12322), (218, 12448), (223, 12475), (224, 12478), (225, 12481), (229, 12508), (232, 12532), (235, 12541), (237, 12556), (252, 12613), (257, 12634), (261, 12646), (282, 12736), (283, 12739), (299, 12814), (319, 12886), (321, 12895), (332, 12964), (342, 12997), (360, 13066), (365, 13084), (386, 13237), (395, 13285), (396, 13288), (403, 13309), (409, 13330), (414, 13354), (415, 13378), (422, 13405), (424, 13411), (434, 13444), (435, 13447), (443, 13489), (473, 13639), (479, 13690), (480, 13693), (487, 13735), (488, 13738), (491, 13756), (495, 13774), (511, 13870), (523, 13882), (525, 13885), (541, 13930), (592, 14035), (596, 14053), (615, 14110), (616, 14119), (619, 14125), (626, 14161), (630, 14179), (637, 14209), (664, 14320), (675, 14380), (679, 14395), (686, 14437), (688, 14440), (713, 14560), (745, 14686), (746, 14689), (757, 14722), (765, 14758), (770, 14791), (771, 14794), (775, 14809), (778, 14821), (786, 14860), (809, 14947), (826, 15070), (836, 15103), (839, 15118), (844, 15124), (867, 15151), (875, 15193), (907, 15445), (923, 15523), (925, 15529), (931, 15577), (932, 15580), (937, 15622), (939, 15625), (947, 15721),

Gene: Archie_16 Start: 10805, Stop: 16201, Start Num: 17

Candidate Starts for Archie_16:

(Start: 17 @10805 has 104 MA's), (Start: 22 @10841 has 1 MA's), (23, 10844), (29, 10907), (33, 10952), (34, 10955), (40, 11006), (51, 11093), (55, 11111), (56, 11120), (60, 11144), (64, 11159), (66, 11174), (69, 11180), (72, 11195), (73, 11198), (74, 11201), (78, 11213), (79, 11222), (92, 11309), (102, 11411), (108, 11456), (109, 11459), (110, 11465), (118, 11543), (130, 11645), (133, 11666), (139, 11708), (140, 11729), (142, 11738), (157, 11858), (162, 11894), (169, 11948), (175, 12029), (178, 12050), (183, 12083), (184, 12092), (188, 12113), (189, 12116), (192, 12164), (199, 12239), (213, 12410), (217, 12440), (223, 12470), (225, 12476), (229, 12503), (252, 12608), (255, 12620), (273,

12695), (276, 12701), (281, 12725), (283, 12734), (288, 12749), (291, 12761), (299, 12809), (305, 12833), (316, 12869), (328, 12938), (330, 12947), (342, 12995), (363, 13079), (378, 13208), (387, 13238), (394, 13271), (417, 13355), (419, 13358), (422, 13379), (451, 13532), (468, 13610), (471, 13625), (475, 13655), (477, 13661), (488, 13742), (495, 13778), (507, 13865), (514, 13922), (524, 13946), (530, 13970), (533, 13985), (534, 13991), (537, 13997), (559, 14084), (563, 14099), (568, 14132), (576, 14162), (581, 14207), (586, 14243), (595, 14267), (623, 14390), (631, 14444), (638, 14498), (641, 14525), (647, 14537), (656, 14579), (665, 14606), (668, 14636), (670, 14645), (674, 14657), (676, 14666), (682, 14708), (683, 14711), (703, 14825), (720, 14879), (733, 14930), (736, 14942), (739, 14960), (750, 15005), (751, 15008), (770, 15101), (822, 15350), (826, 15398), (834, 15422), (846, 15485), (855, 15509), (883, 15698), (895, 15830), (901, 15860), (923, 15995), (925, 16001), (931, 16049), (937, 16094), (947, 16193),

Gene: Auspice_26 Start: 14636, Stop: 21457, Start Num: 17

Candidate Starts for Auspice_26:

(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: AvadaKedavra_16 Start: 10836, Stop: 15776, Start Num: 17

Candidate Starts for AvadaKedavra_16:

(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (199, 12270), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Aziz_30 Start: 15222, Stop: 22046, Start Num: 17

Candidate Starts for Aziz_30:

(Start: 17 @15222 has 104 MA's), (28, 15312), (36, 15372), (40, 15414), (80, 15654), (87, 15684), (100, 15822), (107, 15873), (108, 15885), (110, 15894), (120, 15981), (123, 16014), (130, 16074), (161, 16305), (169, 16371), (176, 16461), (180, 16482), (188, 16536), (197, 16644), (200, 16671), (214, 16848), (219, 16878), (232, 16965), (234, 16971), (239, 16995), (245, 17022), (246, 17025), (256, 17064), (259, 17082), (295, 17241), (310, 17316), (324, 17370), (343, 17478), (345, 17484), (388, 17766), (394, 17796), (397, 17811), (412, 17871), (436, 17985), (442, 18015), (450, 18093), (458, 18120), (482, 18297), (483, 18309), (491, 18348), (512, 18474), (513, 18504), (515, 18513), (540, 18618), (547, 18639), (584, 18822), (633, 19053), (635, 19056), (640, 19119), (658, 19194), (710, 19494), (760, 19731), (774, 19803), (777, 19815), (789, 19893), (804, 19980), (829, 20175), (843, 20250), (865, 20418), (868, 20430), (882, 20502), (884, 20511), (953, 21099), (958, 21189), (959, 21213), (963, 21282), (965, 21312), (971, 21384), (978, 21513), (983, 21594), (991, 21708), (992, 21720), (993, 21735), (1007, 21843), (1014, 21924), (1024, 22020),

Gene: Azrael100_37 Start: 17721, Stop: 23696, Start Num: 17

Candidate Starts for Azrael100_37:

(Start: 17 @17721 has 104 MA's), (26, 17790), (27, 17802), (51, 18003), (55, 18021), (67, 18087), (81, 18150), (85, 18165), (86, 18168), (90, 18237), (102, 18342), (104, 18354), (106, 18369), (108, 18387), (116, 18465), (117, 18471), (121, 18492), (125, 18534), (131, 18579), (132, 18588), (133, 18597), (136, 18618), (138, 18639), (142, 18684), (144, 18717), (147, 18741), (150, 18750), (154, 18771), (163, 18849), (171, 18921), (172, 18930), (174, 18963), (186, 19044), (187, 19047), (200, 19188), (202, 19233), (208, 19302), (214, 19365), (220, 19398), (224, 19419), (228, 19449), (230, 19461), (231, 19479), (232, 19482), (237, 19506), (245, 19539), (262, 19599), (264, 19605), (266, 19617), (268, 19629), (275, 19659), (293, 19713), (299, 19734), (307, 19764), (313, 19776), (322, 19800), (324, 19806), (334, 19860), (337, 19872), (348, 19914), (351, 19929), (359, 19947), (364, 19965), (370, 20019), (372, 20028), (398, 20145), (399, 20148), (406, 20172), (454, 20337), (455, 20340), (460, 20352), (481, 20493), (494, 20562), (517, 20688), (531, 20730), (544, 20784), (546, 20787), (550, 20802), (562, 20838), (573, 20892), (579, 20922), (580, 20937), (584, 20970), (604, 21042), (608, 21066), (620, 21105), (628, 21141), (644, 21216), (708, 21516), (729, 21609), (735, 21636), (759, 21744), (761, 21765), (766, 21783), (773, 21822), (801, 21951), (805, 21966), (819, 22053), (823, 22062), (831, 22107), (840, 22149), (845, 22173), (849, 22191), (854, 22206), (868, 22317), (870, 22329), (878, 22353), (893, 22446), (894, 22449), (899, 22464), (905, 22500), (906, 22509), (909, 22521), (928, 22605), (929, 22611), (930, 22614), (933, 22641), (940, 22677), (942, 22698), (943, 22701), (944, 22734), (949, 22767), (950, 22791), (951, 22812), (952, 22827), (954, 22842), (955, 22851), (961, 22917), (968, 23040), (970, 23064), (974, 23109), (975, 23130), (977, 23175), (982, 23205), (988, 23316), (999, 23430), (1003, 23481), (1005, 23490), (1009, 23535), (1015, 23577), (1017, 23583), (1019, 23595), (1022, 23649), (1023, 23652),

Gene: Baoshan_15 Start: 10684, Stop: 15810, Start Num: 17

Candidate Starts for Baoshan_15:

(Start: 17 @10684 has 104 MA's), (18, 10696), (Start: 22 @10720 has 1 MA's), (23, 10723), (29, 10786), (33, 10831), (51, 10972), (55, 10990), (56, 10999), (62, 11029), (66, 11053), (69, 11059), (72, 11074), (73, 11077), (78, 11092), (79, 11101), (84, 11122), (92, 11188), (97, 11227), (102, 11290), (108, 11335), (109, 11338), (114, 11398), (118, 11422), (125, 11482), (130, 11524), (133, 11545), (140, 11608), (144, 11650), (147, 11674), (151, 11686), (153, 11692), (157, 11737), (162, 11773), (176, 11917), (178, 11929), (188, 11992), (189, 11995), (190, 12016), (199, 12118), (213, 12289), (217, 12319), (223, 12349), (225, 12355), (257, 12508), (273, 12574), (276, 12580), (280, 12598), (281, 12604), (291, 12640), (299, 12688), (300, 12691), (305, 12712), (308, 12721), (316, 12748), (319, 12760), (330, 12826), (342, 12874), (368, 13003), (394, 13150), (419, 13237), (422, 13258), (448, 13399), (451, 13411), (471, 13504), (477, 13540), (488, 13621), (495, 13657), (503, 13717), (508, 13744), (509, 13747), (511, 13753), (516, 13765), (549, 13846), (555, 13861), (561, 13879), (586, 13939), (611, 14035), (623, 14071), (638, 14161), (647, 14197), (652, 14212), (668, 14251), (674, 14272), (678, 14290), (682, 14323), (683, 14326), (722, 14503), (733, 14545), (736, 14557), (739, 14575), (751, 14623), (754, 14629), (770, 14716), (822, 14965), (834, 15037), (846, 15100),

(848, 15106), (852, 15115), (855, 15124), (883, 15310), (889, 15409), (895, 15442), (897, 15451),
(901, 15472), (923, 15604), (925, 15610), (931, 15658), (934, 15688), (937, 15703), (947, 15802),

Gene: Baudelaire_16 Start: 10445, Stop: 15349, Start Num: 17

Candidate Starts for Baudelaire_16:

(Start: 17 @10445 has 104 MA's), (21, 10475), (25, 10493), (34, 10583), (49, 10712), (54, 10739), (55, 10742), (57, 10760), (62, 10781), (64, 10790), (69, 10811), (72, 10826), (73, 10829), (74, 10832), (84, 10874), (94, 10961), (97, 10979), (99, 11000), (101, 11033), (102, 11042), (104, 11054), (108, 11087), (109, 11090), (114, 11150), (132, 11288), (133, 11297), (140, 11360), (146, 11411), (167, 11570), (176, 11669), (179, 11684), (180, 11690), (184, 11723), (188, 11744), (189, 11747), (193, 11819), (194, 11828), (199, 11870), (201, 11915), (203, 11918), (205, 11927), (207, 11948), (211, 12020), (214, 12050), (215, 12059), (225, 12107), (226, 12113), (227, 12116), (230, 12137), (231, 12155), (248, 12227), (253, 12245), (269, 12302), (272, 12320), (273, 12323), (286, 12371), (288, 12374), (290, 12383), (303, 12446), (316, 12494), (321, 12515), (338, 12605), (341, 12614), (354, 12662), (387, 12848), (401, 12911), (405, 12914), (409, 12923), (420, 12977), (424, 12995), (427, 13007), (449, 13130), (472, 13220), (476, 13250), (480, 13283), (485, 13316), (486, 13319), (499, 13385), (500, 13388), (537, 13454), (590, 13532), (607, 13592), (628, 13664), (634, 13676), (638, 13703), (655, 13754), (669, 13790), (678, 13823), (687, 13874), (689, 13880), (695, 13910), (697, 13919), (703, 13958), (714, 13991), (719, 14012), (724, 14030), (733, 14072), (736, 14084), (739, 14102), (744, 14120), (751, 14150), (768, 14225), (780, 14282), (787, 14321), (800, 14372), (814, 14453), (815, 14456), (822, 14489), (825, 14501), (826, 14537), (834, 14561), (838, 14585), (856, 14660), (864, 14756), (869, 14786), (872, 14807), (877, 14828), (889, 14951), (898, 14996), (899, 15002), (916, 15107), (921, 15131), (923, 15140), (924, 15143), (926, 15155), (931, 15194), (932, 15197), (937, 15242), (939, 15245), (945, 15335), (947, 15341),

Gene: Bazzle_16 Start: 10845, Stop: 15950, Start Num: 22

Candidate Starts for Bazzle_16:

(Start: 17 @10809 has 104 MA's), (Start: 22 @10845 has 1 MA's), (23, 10848), (29, 10911), (33, 10956), (34, 10959), (55, 11094), (56, 11103), (60, 11127), (66, 11157), (72, 11178), (73, 11181), (74, 11184), (78, 11196), (79, 11205), (85, 11229), (88, 11247), (92, 11292), (97, 11331), (102, 11394), (108, 11439), (109, 11442), (111, 11460), (114, 11502), (125, 11586), (130, 11628), (131, 11631), (135, 11655), (139, 11691), (140, 11712), (149, 11784), (153, 11796), (157, 11841), (160, 11862), (162, 11877), (165, 11910), (178, 12033), (180, 12042), (188, 12096), (189, 12099), (190, 12120), (191, 12123), (192, 12147), (199, 12222), (213, 12393), (217, 12423), (223, 12453), (225, 12459), (231, 12507), (232, 12510), (241, 12549), (243, 12558), (252, 12591), (257, 12612), (273, 12678), (276, 12684), (280, 12702), (281, 12708), (283, 12717), (288, 12732), (291, 12744), (299, 12792), (305, 12816), (316, 12852), (330, 12930), (342, 12978), (378, 13191), (394, 13254), (419, 13341), (422, 13362), (448, 13503), (451, 13515), (471, 13608), (475, 13638), (477, 13644), (479, 13677), (488, 13725), (495, 13761), (537, 13920), (549, 13950), (582, 14007), (583, 14010), (609, 14115), (623, 14163), (630, 14214), (638, 14253), (656, 14331), (667, 14382), (674, 14409), (678, 14427), (682, 14460), (683, 14463), (720, 14628), (733, 14682), (736, 14694), (739, 14712), (750, 14757), (751, 14760), (770, 14853), (812, 15042), (822, 15102), (841, 15210), (846, 15237), (848, 15243), (852, 15252), (875, 15414), (883, 15447), (889, 15546), (895, 15579), (897, 15588), (901, 15609), (923, 15744), (925, 15750), (931, 15798), (934, 15828), (937, 15843), (947, 15942),

Gene: Beelzebub_52 Start: 21230, Stop: 26710, Start Num: 2

Candidate Starts for Beelzebub_52:

(Start: 1 @21188 has 18 MA's), (Start: 2 @21230 has 2 MA's), (3, 21374), (4, 21392), (5, 21404), (7, 21557), (15, 21716), (Start: 16 @21728 has 1 MA's), (20, 21761), (30, 21842), (31, 21845), (35, 21890), (37, 21911), (39, 21938), (43, 21980), (48, 22022), (57, 22082), (63, 22106), (70, 22142), (71, 22145), (89, 22226), (91, 22274), (96, 22304), (114, 22484), (115, 22487), (122, 22535), (130, 22610), (137, 22658), (143, 22754), (146, 22772), (148, 22790), (152, 22802), (157, 22850), (161, 22874), (162, 22886), (164, 22907), (173, 23006), (181, 23054), (185, 23087), (190, 23129), (195, 23198),

(201, 23267), (204, 23276), (205, 23279), (214, 23399), (216, 23411), (221, 23441), (230, 23486), (232, 23507), (240, 23543), (250, 23570), (257, 23597), (258, 23600), (260, 23609), (274, 23666), (336, 23909), (344, 23930), (353, 23972), (366, 24032), (402, 24227), (407, 24242), (409, 24251), (413, 24275), (416, 24287), (418, 24290), (421, 24305), (429, 24338), (446, 24416), (463, 24503), (469, 24539), (477, 24587), (479, 24614), (501, 24728), (504, 24761), (518, 24806), (537, 24857), (560, 24914), (566, 24935), (591, 25016), (599, 25058), (617, 25136), (618, 25139), (634, 25205), (642, 25256), (673, 25388), (692, 25484), (698, 25523), (719, 25625), (723, 25637), (762, 25790), (764, 25793), (785, 25904), (790, 25922), (805, 25994), (816, 26060), (837, 26156), (844, 26183), (859, 26264), (870, 26342), (885, 26420), (890, 26498), (915, 26648), (917, 26654),

Gene: Bellis_17 Start: 10971, Stop: 16403, Start Num: 17

Candidate Starts for Bellis_17:

(Start: 17 @10971 has 104 MA's), (21, 11001), (23, 11010), (32, 11091), (33, 11118), (34, 11121), (45, 11220), (58, 11316), (62, 11331), (66, 11355), (73, 11379), (74, 11382), (78, 11394), (97, 11529), (102, 11592), (108, 11637), (109, 11640), (125, 11784), (133, 11847), (140, 11910), (153, 11994), (160, 12060), (182, 12249), (188, 12294), (189, 12297), (199, 12420), (200, 12429), (208, 12537), (209, 12546), (224, 12654), (225, 12657), (230, 12687), (231, 12705), (233, 12711), (237, 12732), (242, 12750), (255, 12801), (269, 12861), (271, 12879), (279, 12903), (299, 12996), (305, 13020), (312, 13041), (316, 13056), (321, 13077), (329, 13122), (333, 13137), (352, 13212), (376, 13350), (387, 13395), (420, 13521), (423, 13536), (430, 13560), (432, 13566), (434, 13572), (443, 13620), (473, 13776), (477, 13803), (479, 13830), (488, 13878), (494, 13911), (495, 13914), (503, 13971), (535, 14109), (537, 14112), (585, 14331), (593, 14349), (595, 14358), (610, 14433), (624, 14481), (626, 14508), (629, 14526), (661, 14682), (671, 14739), (677, 14775), (680, 14784), (684, 14820), (699, 14898), (701, 14919), (717, 15003), (721, 15030), (730, 15072), (731, 15078), (733, 15087), (740, 15132), (743, 15141), (752, 15186), (754, 15198), (793, 15423), (813, 15507), (826, 15609), (839, 15657), (841, 15669), (847, 15699), (850, 15705), (853, 15720), (858, 15774), (889, 16002), (895, 16035), (899, 16053), (903, 16071), (904, 16086), (913, 16146), (923, 16191), (931, 16251), (937, 16296), (939, 16299), (947, 16395),

Gene: Bernal13_17 Start: 11932, Stop: 16017, Start Num: 77

Candidate Starts for Bernal13_17:

(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: BigCheese_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for BigCheese_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753),

(750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Blackbeetle_48 Start: 20207, Stop: 25756, Start Num: 1

Candidate Starts for Blackbeetle_48:

(Start: 1 @20207 has 18 MA's), (Start: 2 @20249 has 2 MA's), (3, 20393), (4, 20411), (5, 20423), (7, 20576), (15, 20735), (Start: 16 @20747 has 1 MA's), (20, 20780), (30, 20861), (31, 20864), (35, 20909), (37, 20930), (39, 20957), (43, 20999), (48, 21041), (57, 21101), (63, 21125), (70, 21161), (71, 21164), (89, 21245), (91, 21293), (96, 21323), (114, 21503), (115, 21506), (122, 21554), (130, 21629), (137, 21677), (143, 21773), (146, 21791), (148, 21809), (152, 21821), (157, 21869), (161, 21893), (162, 21905), (164, 21926), (173, 22025), (181, 22073), (185, 22106), (190, 22148), (195, 22217), (201, 22286), (204, 22295), (205, 22298), (214, 22418), (216, 22430), (221, 22460), (230, 22505), (232, 22526), (240, 22562), (250, 22589), (257, 22616), (258, 22619), (260, 22628), (274, 22685), (296, 22757), (313, 22814), (336, 22928), (344, 22949), (353, 22991), (366, 23051), (402, 23246), (407, 23261), (409, 23270), (413, 23294), (416, 23306), (418, 23309), (421, 23324), (429, 23357), (446, 23435), (463, 23522), (469, 23558), (477, 23606), (479, 23633), (501, 23747), (504, 23780), (518, 23825), (537, 23876), (557, 23924), (560, 23933), (566, 23954), (591, 24035), (599, 24077), (617, 24155), (618, 24158), (634, 24224), (642, 24275), (663, 24344), (692, 24500), (698, 24539), (719, 24641), (723, 24653), (762, 24806), (764, 24809), (785, 24920), (790, 24938), (794, 24968), (805, 25010), (811, 25049), (820, 25100), (859, 25310), (870, 25388), (885, 25466), (890, 25544), (915, 25694), (917, 25700),

Gene: BobsGarage_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for BobsGarage_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Bongo_26 Start: 14636, Stop: 21457, Start Num: 17

Candidate Starts for Bongo_26:

(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727,

18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: BourbonZero_16 Start: 10979, Stop: 16399, Start Num: 17

Candidate Starts for BourbonZero_16:

(Start: 17 @10979 has 104 MA's), (21, 11009), (23, 11018), (32, 11099), (33, 11126), (34, 11129), (45, 11228), (58, 11324), (66, 11363), (73, 11387), (74, 11390), (78, 11402), (97, 11537), (102, 11600), (108, 11645), (109, 11648), (125, 11792), (131, 11837), (139, 11897), (140, 11918), (153, 12002), (157, 12047), (160, 12068), (184, 12281), (188, 12302), (189, 12305), (199, 12428), (200, 12437), (208, 12545), (209, 12554), (224, 12662), (225, 12665), (231, 12713), (233, 12719), (237, 12740), (242, 12758), (255, 12809), (269, 12869), (279, 12911), (299, 13004), (305, 13028), (312, 13049), (316, 13064), (321, 13085), (329, 13130), (333, 13145), (352, 13220), (376, 13358), (387, 13403), (420, 13529), (423, 13544), (430, 13568), (443, 13628), (473, 13784), (477, 13811), (479, 13838), (488, 13886), (494, 13919), (503, 13979), (535, 14117), (537, 14120), (542, 14162), (585, 14336), (593, 14354), (595, 14363), (610, 14435), (624, 14483), (626, 14510), (629, 14528), (661, 14687), (671, 14744), (677, 14780), (680, 14789), (684, 14825), (699, 14903), (701, 14924), (721, 15035), (730, 15077), (731, 15083), (733, 15092), (740, 15137), (743, 15146), (752, 15191), (754, 15203), (793, 15428), (797, 15440), (813, 15512), (826, 15614), (839, 15662), (841, 15674), (847, 15704), (850, 15710), (853, 15725), (858, 15779), (895, 16031), (899, 16049), (903, 16067), (904, 16082), (913, 16142), (923, 16187), (925, 16193), (931, 16247), (932, 16250), (937, 16292), (939, 16295), (947, 16391),

Gene: BrainDrainer_17 Start: 10651, Stop: 15741, Start Num: 17

Candidate Starts for BrainDrainer_17:

(Start: 17 @10651 has 104 MA's), (21, 10681), (23, 10690), (33, 10798), (38, 10828), (47, 10930), (51, 10954), (61, 11008), (62, 11011), (66, 11035), (69, 11041), (73, 11059), (74, 11062), (78, 11074), (82, 11095), (102, 11272), (108, 11317), (125, 11464), (131, 11509), (133, 11527), (136, 11548), (137, 11554), (140, 11590), (144, 11632), (149, 11662), (153, 11674), (156, 11710), (157, 11719), (159, 11734), (162, 11755), (167, 11800), (184, 11953), (194, 12058), (199, 12100), (204, 12154), (205, 12157), (210, 12232), (212, 12268), (217, 12301), (223, 12331), (225, 12337), (233, 12391), (237, 12412), (242, 12430), (247, 12454), (248, 12457), (249, 12460), (254, 12478), (267, 12529), (269, 12541), (270, 12547), (272, 12559), (278, 12580), (279, 12583), (282, 12598), (283, 12601), (299, 12676), (305, 12700), (316, 12736), (328, 12805), (339, 12850), (342, 12859), (349, 12892), (356, 12916), (357, 12919), (363, 12943), (366, 12970), (367, 12979), (374, 13033), (391, 13129), (422, 13255), (437, 13309), (441, 13333), (449, 13399), (453, 13411), (456, 13420), (468, 13474), (470, 13486), (473, 13498), (477, 13525), (485, 13591), (486, 13594), (488, 13603), (495, 13639), (501, 13669), (508, 13711), (509, 13714), (583, 13873), (586, 13894), (602, 13951), (623, 14026), (630, 14077), (638, 14116), (645, 14140), (665, 14191), (667, 14215), (678, 14260), (703, 14392), (708, 14404), (733, 14506), (736, 14518), (751, 14584), (754, 14590), (755, 14593), (770, 14677), (780, 14716), (781, 14722), (822, 14926), (833, 14995), (836, 15007), (841, 15034), (842, 15037), (853, 15076), (875, 15205), (876, 15214), (879, 15220), (889, 15337), (899, 15388), (903, 15406), (904, 15421), (916, 15496), (919, 15511), (923, 15529), (925, 15535), (931, 15589), (932, 15592), (937, 15634), (947, 15733),

Gene: Breezona_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Breezona_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825),

(153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Bricole_26 Start: 14622, Stop: 21443, Start Num: 17

Candidate Starts for Bricole_26:

(Start: 17 @14622 has 104 MA's), (19, 14637), (28, 14712), (32, 14733), (36, 14772), (41, 14820), (51, 14922), (86, 15078), (100, 15222), (108, 15285), (110, 15294), (119, 15375), (122, 15399), (124, 15423), (128, 15456), (130, 15474), (131, 15477), (141, 15558), (143, 15591), (163, 15732), (175, 15858), (198, 16059), (200, 16077), (211, 16224), (214, 16254), (234, 16377), (294, 16632), (295, 16635), (301, 16668), (303, 16671), (307, 16689), (309, 16698), (314, 16713), (318, 16728), (320, 16737), (326, 16764), (337, 16842), (358, 16923), (373, 17043), (385, 17121), (400, 17184), (409, 17217), (431, 17316), (442, 17382), (450, 17457), (464, 17529), (490, 17706), (498, 17748), (510, 17835), (512, 17838), (520, 17889), (547, 17994), (552, 18012), (556, 18024), (572, 18096), (577, 18117), (598, 18234), (605, 18270), (613, 18315), (633, 18420), (647, 18498), (651, 18513), (706, 18825), (727, 18921), (736, 18969), (742, 19005), (748, 19038), (760, 19083), (762, 19101), (779, 19188), (782, 19209), (784, 19236), (817, 19458), (832, 19557), (835, 19566), (838, 19587), (849, 19641), (851, 19653), (874, 19821), (884, 19866), (917, 20124), (935, 20268), (936, 20277), (972, 20805), (978, 20922), (984, 20991), (986, 21009), (996, 21123), (998, 21153), (1007, 21237), (1011, 21285), (1016, 21330), (1024, 21417),

Gene: Bromden_17 Start: 10976, Stop: 16069, Start Num: 17

Candidate Starts for Bromden_17:

(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (33, 11123), (38, 11153), (47, 11255), (61, 11333), (62, 11336), (66, 11360), (69, 11366), (73, 11384), (78, 11399), (82, 11420), (85, 11432), (102, 11597), (108, 11642), (136, 11873), (137, 11879), (140, 11915), (144, 11957), (156, 12035), (157, 12044), (159, 12059), (162, 12080), (167, 12125), (188, 12299), (199, 12425), (205, 12482), (210, 12557), (217, 12626), (223, 12656), (225, 12662), (229, 12689), (233, 12716), (237, 12737), (249, 12785), (254, 12803), (272, 12884), (278, 12905), (279, 12908), (283, 12926), (288, 12941), (299, 13001), (305, 13025), (316, 13061), (328, 13130), (335, 13157), (339, 13175), (342, 13184), (349, 13217), (356, 13241), (357, 13244), (363, 13268), (367, 13304), (391, 13454), (422, 13580), (441, 13658), (448, 13718), (449, 13724), (456, 13745), (468, 13799), (470, 13811), (473, 13823), (477, 13850), (485, 13916), (486, 13919), (488, 13928), (495, 13964), (501, 13994), (508, 14036), (509, 14039), (511, 14045), (522, 14072), (543, 14126), (582, 14192), (586, 14216), (623, 14348), (630, 14399), (638, 14438), (654, 14486), (665, 14513), (670, 14552), (676, 14573), (678, 14582), (708, 14732), (733, 14834), (736, 14846), (750, 14909), (751, 14912), (770, 15005), (781, 15050), (822, 15254), (836, 15335), (841, 15362), (842, 15365), (855, 15410), (872, 15521), (875, 15533), (876, 15542), (879, 15548), (889, 15665), (899, 15716), (903, 15734), (916, 15824), (919, 15839), (923, 15857), (925, 15863), (931, 15917), (932, 15920), (937, 15962),

Gene: Calm_16 Start: 10837, Stop: 15789, Start Num: 17

Candidate Starts for Calm_16:

(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60,

11176), (65, 11203), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (88, 11296), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (199, 12271), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (415, 13405), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14158), (616, 14167), (619, 14173), (626, 14209), (630, 14227), (637, 14257), (664, 14368), (675, 14428), (679, 14443), (686, 14485), (688, 14488), (713, 14608), (745, 14734), (746, 14737), (757, 14770), (765, 14806), (771, 14842), (775, 14857), (778, 14869), (786, 14908), (809, 14995), (826, 15118), (836, 15151), (867, 15211), (875, 15253), (907, 15505), (923, 15583), (925, 15589), (931, 15637), (932, 15640), (937, 15682), (939, 15685), (947, 15781),

Gene: Caprice_47 Start: 20277, Stop: 25826, Start Num: 1

Candidate Starts for Caprice_47:

(Start: 1 @20277 has 18 MA's), (Start: 2 @20319 has 2 MA's), (3, 20463), (4, 20481), (5, 20493), (7, 20646), (15, 20805), (Start: 16 @20817 has 1 MA's), (20, 20850), (30, 20931), (31, 20934), (35, 20979), (37, 21000), (39, 21027), (43, 21069), (48, 21111), (57, 21171), (63, 21195), (70, 21231), (71, 21234), (89, 21315), (91, 21363), (96, 21393), (105, 21489), (114, 21573), (115, 21576), (122, 21624), (130, 21699), (137, 21747), (143, 21843), (146, 21861), (148, 21879), (152, 21891), (157, 21939), (161, 21963), (162, 21975), (164, 21996), (173, 22095), (181, 22143), (185, 22176), (190, 22218), (195, 22287), (201, 22356), (204, 22365), (205, 22368), (214, 22488), (216, 22500), (221, 22530), (230, 22575), (232, 22596), (240, 22632), (250, 22659), (257, 22686), (258, 22689), (260, 22698), (274, 22755), (313, 22884), (336, 22998), (344, 23019), (353, 23061), (366, 23121), (402, 23316), (407, 23331), (409, 23340), (413, 23364), (416, 23376), (418, 23379), (421, 23394), (429, 23427), (445, 23499), (446, 23505), (463, 23592), (469, 23628), (477, 23676), (479, 23703), (501, 23817), (504, 23850), (518, 23895), (537, 23946), (557, 23994), (560, 24003), (566, 24024), (591, 24105), (599, 24147), (617, 24225), (618, 24228), (634, 24294), (642, 24345), (692, 24570), (698, 24609), (719, 24711), (723, 24723), (762, 24876), (764, 24879), (785, 24990), (790, 25008), (805, 25080), (811, 25119), (820, 25170), (859, 25380), (870, 25458), (885, 25536), (890, 25614), (915, 25764), (917, 25770),

Gene: Chaser_16 Start: 10567, Stop: 15669, Start Num: 17

Candidate Starts for Chaser_16:

(Start: 17 @10567 has 104 MA's), (21, 10597), (23, 10606), (33, 10714), (38, 10744), (47, 10846), (51, 10870), (61, 10924), (62, 10927), (66, 10951), (69, 10957), (73, 10975), (74, 10978), (78, 10990), (82, 11011), (85, 11023), (102, 11188), (108, 11233), (125, 11380), (131, 11425), (133, 11443), (136, 11464), (137, 11470), (140, 11506), (144, 11548), (153, 11590), (157, 11635), (159, 11650), (162, 11671), (167, 11716), (176, 11815), (180, 11836), (188, 11890), (189, 11893), (194, 11974), (199, 12016), (205, 12073), (210, 12148), (215, 12205), (217, 12217), (223, 12247), (229, 12280), (231, 12301), (237, 12328), (254, 12394), (272, 12475), (278, 12496), (279, 12499), (283, 12517), (299, 12592), (305, 12616), (316, 12652), (328, 12721), (339, 12766), (342, 12775), (349, 12808), (356, 12832), (357, 12835), (363, 12859), (366, 12886), (367, 12895), (410, 13105), (422, 13171), (441, 13249), (453, 13327), (456, 13336), (470, 13402), (473, 13414), (477, 13441), (485, 13507), (486, 13510), (488, 13519), (495, 13555), (502, 13588), (503, 13615), (583, 13801), (586, 13822), (623, 13954), (630, 14005), (645, 14068), (665, 14119), (667, 14143), (678, 14188), (682, 14221), (703, 14320), (708, 14332), (725, 14398), (733, 14434), (736, 14446), (751, 14512), (754, 14518), (755, 14521), (770, 14605), (780, 14644), (781, 14650), (787, 14683), (822, 14854), (833, 14923), (836, 14935), (841, 14962), (842, 14965), (862, 15070), (875, 15133), (876, 15142), (879, 15148), (889,

15265), (899, 15316), (903, 15334), (904, 15349), (916, 15424), (919, 15439), (923, 15457), (925, 15463), (931, 15517), (932, 15520), (937, 15562), (947, 15661),

Gene: ChengKai98_16 Start: 10855, Stop: 15990, Start Num: 17

Candidate Starts for ChengKai98_16:

(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: ChutneyChips_16 Start: 10555, Stop: 15663, Start Num: 17

Candidate Starts for ChutneyChips_16:

(Start: 17 @10555 has 104 MA's), (23, 10594), (33, 10702), (38, 10732), (47, 10834), (51, 10858), (53, 10864), (61, 10912), (62, 10915), (66, 10939), (69, 10945), (73, 10963), (78, 10978), (85, 11011), (102, 11176), (108, 11221), (131, 11413), (133, 11431), (136, 11452), (137, 11458), (139, 11473), (140, 11494), (144, 11536), (149, 11566), (153, 11578), (156, 11614), (157, 11623), (159, 11638), (162, 11659), (167, 11704), (180, 11824), (184, 11857), (194, 11962), (199, 12004), (205, 12061), (217, 12205), (223, 12235), (225, 12241), (231, 12289), (233, 12295), (237, 12316), (249, 12364), (254, 12382), (270, 12451), (272, 12463), (278, 12484), (279, 12487), (283, 12505), (299, 12580), (305, 12604), (316, 12640), (328, 12709), (339, 12754), (342, 12763), (349, 12796), (356, 12820), (357, 12823), (363, 12847), (366, 12874), (367, 12883), (422, 13159), (441, 13237), (449, 13303), (453, 13315), (456, 13324), (468, 13378), (470, 13390), (473, 13402), (477, 13429), (485, 13495), (486, 13498), (488, 13507), (495, 13543), (502, 13576), (503, 13603), (508, 13630), (509, 13633), (583, 13789), (623, 13942), (630, 13993), (645, 14056), (654, 14080), (665, 14107), (667, 14131), (678, 14176), (682, 14209), (703, 14314), (708, 14326), (720, 14371), (733, 14428), (736, 14440), (750, 14503), (751, 14506), (754, 14512), (770, 14599), (780, 14638), (781, 14644), (822, 14848), (833, 14917), (836, 14929), (841, 14956), (842, 14959), (876, 15136), (879, 15142), (889, 15259), (899, 15310), (903, 15328), (904, 15343), (916, 15418), (919, 15433), (923, 15451), (925, 15457), (931, 15511), (932, 15514), (937, 15556), (947, 15655),

Gene: CicholasNage_16 Start: 10837, Stop: 15777, Start Num: 17

Candidate Starts for CicholasNage_16:

(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (62, 11182), (65, 11203), (66, 11206), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841),

(319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (415, 13405), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14146), (616, 14155), (619, 14161), (626, 14197), (630, 14215), (637, 14245), (664, 14356), (675, 14416), (679, 14431), (686, 14473), (688, 14476), (713, 14596), (745, 14722), (746, 14725), (757, 14758), (765, 14794), (771, 14830), (775, 14845), (778, 14857), (809, 14983), (826, 15106), (836, 15139), (867, 15199), (875, 15241), (907, 15493), (923, 15571), (925, 15577), (931, 15625), (932, 15628), (937, 15670), (939, 15673), (947, 15769),

Gene: Clarkson_49 Start: 20889, Stop: 26438, Start Num: 1

Candidate Starts for Clarkson_49:

(Start: 1 @20889 has 18 MA's), (Start: 2 @20931 has 2 MA's), (3, 21075), (4, 21093), (5, 21105), (7, 21258), (15, 21417), (Start: 16 @21429 has 1 MA's), (20, 21462), (30, 21543), (31, 21546), (35, 21591), (37, 21612), (39, 21639), (43, 21681), (48, 21723), (57, 21783), (63, 21807), (70, 21843), (71, 21846), (89, 21927), (91, 21975), (96, 22005), (114, 22185), (115, 22188), (122, 22236), (130, 22311), (137, 22359), (143, 22455), (146, 22473), (148, 22491), (152, 22503), (157, 22551), (161, 22575), (162, 22587), (164, 22608), (173, 22707), (181, 22755), (185, 22788), (190, 22830), (195, 22899), (201, 22968), (204, 22977), (205, 22980), (214, 23100), (216, 23112), (221, 23142), (230, 23187), (232, 23208), (240, 23244), (250, 23271), (257, 23298), (258, 23301), (260, 23310), (274, 23367), (313, 23496), (336, 23610), (344, 23631), (353, 23673), (366, 23733), (402, 23928), (407, 23943), (409, 23952), (413, 23976), (416, 23988), (418, 23991), (421, 24006), (429, 24039), (446, 24117), (463, 24204), (469, 24240), (479, 24315), (501, 24429), (504, 24462), (518, 24507), (537, 24558), (557, 24606), (560, 24615), (566, 24636), (591, 24717), (599, 24759), (617, 24837), (618, 24840), (634, 24906), (642, 24957), (663, 25026), (692, 25182), (698, 25221), (719, 25323), (723, 25335), (762, 25488), (764, 25491), (785, 25602), (790, 25620), (794, 25650), (805, 25692), (811, 25731), (820, 25782), (859, 25992), (870, 26070), (885, 26148), (890, 26226), (915, 26376), (917, 26382),

Gene: Claus_16 Start: 10864, Stop: 15966, Start Num: 17

Candidate Starts for Claus_16:

(Start: 17 @10864 has 104 MA's), (18, 10876), (Start: 22 @10900 has 1 MA's), (23, 10903), (29, 10966), (33, 11011), (51, 11152), (55, 11170), (56, 11179), (62, 11209), (66, 11233), (69, 11239), (72, 11254), (73, 11257), (78, 11272), (79, 11281), (84, 11302), (92, 11368), (97, 11407), (102, 11470), (108, 11515), (109, 11518), (114, 11578), (118, 11602), (125, 11662), (130, 11704), (133, 11725), (140, 11788), (144, 11830), (147, 11854), (151, 11866), (153, 11872), (157, 11917), (162, 11953), (176, 12097), (178, 12109), (188, 12172), (189, 12175), (190, 12196), (199, 12298), (213, 12469), (217, 12499), (223, 12529), (225, 12535), (237, 12610), (257, 12688), (273, 12754), (276, 12760), (280, 12778), (281, 12784), (291, 12820), (299, 12868), (300, 12871), (305, 12892), (308, 12901), (316, 12928), (319, 12940), (330, 13006), (342, 13054), (394, 13330), (419, 13417), (422, 13438), (448, 13579), (451, 13591), (471, 13684), (477, 13720), (488, 13801), (495, 13837), (537, 13993), (578, 14074), (582, 14080), (583, 14083), (586, 14098), (623, 14230), (638, 14320), (647, 14356), (652, 14371), (668, 14410), (674, 14431), (678, 14449), (682, 14482), (683, 14485), (722, 14662), (733, 14704), (736, 14716), (739, 14734), (751, 14782), (754, 14788), (770, 14875), (822, 15124), (834, 15196), (846, 15259), (848, 15265), (852, 15274), (855, 15283), (883, 15466), (889, 15565), (895, 15598), (897, 15607), (901, 15628), (923, 15760), (925, 15766), (931, 15814), (934, 15844), (937, 15859), (947, 15958),

Gene: Clautastrophe_17 Start: 10975, Stop: 16401, Start Num: 17

Candidate Starts for Clautastrophe_17:

(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153,

11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: Corazon_46 Start: 20842, Stop: 26391, Start Num: 1

Candidate Starts for Corazon_46:

(Start: 1 @20842 has 18 MA's), (Start: 2 @20884 has 2 MA's), (3, 21028), (4, 21046), (5, 21058), (7, 21211), (15, 21370), (Start: 16 @21382 has 1 MA's), (20, 21415), (30, 21496), (31, 21499), (35, 21544), (37, 21565), (39, 21592), (43, 21634), (48, 21676), (57, 21736), (63, 21760), (70, 21796), (71, 21799), (89, 21880), (91, 21928), (96, 21958), (114, 22138), (115, 22141), (122, 22189), (130, 22264), (137, 22312), (143, 22408), (146, 22426), (148, 22444), (152, 22456), (157, 22504), (161, 22528), (162, 22540), (164, 22561), (173, 22660), (181, 22708), (185, 22741), (190, 22783), (195, 22852), (201, 22921), (204, 22930), (205, 22933), (214, 23053), (216, 23065), (221, 23095), (230, 23140), (232, 23161), (240, 23197), (250, 23224), (257, 23251), (258, 23254), (260, 23263), (274, 23320), (313, 23449), (336, 23563), (344, 23584), (353, 23626), (366, 23686), (402, 23881), (407, 23896), (409, 23905), (413, 23929), (416, 23941), (418, 23944), (421, 23959), (429, 23992), (446, 24070), (463, 24157), (469, 24193), (477, 24241), (479, 24268), (501, 24382), (504, 24415), (518, 24460), (537, 24511), (557, 24559), (560, 24568), (566, 24589), (591, 24670), (599, 24712), (617, 24790), (618, 24793), (634, 24859), (642, 24910), (663, 24979), (692, 25135), (698, 25174), (719, 25276), (723, 25288), (762, 25441), (764, 25444), (785, 25555), (790, 25573), (794, 25603), (805, 25645), (811, 25684), (820, 25735), (859, 25945), (870, 26023), (885, 26101), (890, 26179), (915, 26329), (917, 26335),

Gene: Cosmo_38 Start: 17728, Stop: 23703, Start Num: 17

Candidate Starts for Cosmo_38:

(Start: 17 @17728 has 104 MA's), (26, 17797), (27, 17809), (51, 18010), (55, 18028), (67, 18094), (81, 18157), (85, 18172), (86, 18175), (90, 18244), (104, 18361), (106, 18376), (108, 18394), (116, 18472), (117, 18478), (121, 18499), (125, 18541), (131, 18586), (132, 18595), (133, 18604), (136, 18625), (138, 18646), (142, 18691), (144, 18724), (147, 18748), (150, 18757), (154, 18778), (163, 18856), (171, 18928), (172, 18937), (174, 18970), (186, 19051), (187, 19054), (200, 19195), (202, 19240), (208, 19309), (214, 19372), (220, 19405), (224, 19426), (228, 19456), (230, 19468), (231, 19486), (232, 19489), (237, 19513), (245, 19546), (262, 19606), (264, 19612), (266, 19624), (268, 19636), (275, 19666), (293, 19720), (299, 19741), (307, 19771), (313, 19783), (322, 19807), (324, 19813), (334, 19867), (337, 19879), (348, 19921), (351, 19936), (359, 19954), (364, 19972), (370, 20026), (372, 20035), (398, 20152), (399, 20155), (406, 20179), (454, 20344), (455, 20347), (460, 20359), (481, 20500), (494, 20569), (517, 20695), (531, 20737), (544, 20791), (546, 20794), (550, 20809), (562, 20845), (573, 20899), (579, 20929), (580, 20944), (584, 20977), (604, 21049), (608, 21073), (620, 21112), (628, 21148), (644, 21223), (708, 21523), (729, 21616), (735, 21643), (759, 21751), (761, 21772), (766, 21790), (773, 21829), (801, 21958), (805, 21973), (819, 22060), (823, 22069), (831, 22114), (840, 22156), (845, 22180), (849, 22198), (854, 22213), (868, 22324), (870, 22336), (878, 22360), (893, 22453), (894, 22456), (899, 22471), (905, 22507), (906, 22516), (909, 22528), (928, 22612), (929, 22618), (930, 22621), (933, 22648), (940, 22684), (942, 22705), (943, 22708), (944, 22741), (949, 22774), (950, 22798), (951, 22819), (952, 22834), (954, 22849), (955, 22858),

(961, 22924), (968, 23047), (970, 23071), (974, 23116), (975, 23137), (977, 23182), (982, 23212), (988, 23323), (999, 23437), (1003, 23488), (1005, 23497), (1009, 23542), (1015, 23584), (1017, 23590), (1019, 23602), (1022, 23656), (1023, 23659),

Gene: Crossroads_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Crossroads_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: DHan_16 Start: 10800, Stop: 15902, Start Num: 17

Candidate Starts for DHan_16:

(Start: 17 @10800 has 104 MA's), (18, 10812), (Start: 22 @10836 has 1 MA's), (23, 10839), (29, 10902), (33, 10947), (51, 11088), (55, 11106), (56, 11115), (62, 11145), (66, 11169), (69, 11175), (72, 11190), (73, 11193), (78, 11208), (79, 11217), (84, 11238), (97, 11343), (102, 11406), (108, 11451), (109, 11454), (114, 11514), (118, 11538), (130, 11640), (133, 11661), (140, 11724), (144, 11766), (147, 11790), (151, 11802), (153, 11808), (157, 11853), (162, 11889), (178, 12045), (188, 12108), (189, 12111), (190, 12132), (199, 12234), (213, 12405), (217, 12435), (223, 12465), (225, 12471), (257, 12624), (273, 12690), (276, 12696), (280, 12714), (281, 12720), (291, 12756), (299, 12804), (305, 12828), (316, 12864), (319, 12876), (342, 12990), (394, 13266), (419, 13353), (422, 13374), (448, 13515), (451, 13527), (452, 13533), (471, 13620), (477, 13656), (488, 13737), (495, 13773), (503, 13833), (537, 13929), (578, 14010), (582, 14016), (583, 14019), (586, 14034), (623, 14166), (638, 14256), (647, 14292), (652, 14307), (667, 14340), (668, 14346), (674, 14367), (678, 14385), (682, 14418), (720, 14589), (722, 14598), (733, 14640), (736, 14652), (739, 14670), (751, 14718), (754, 14724), (770, 14811), (822, 15060), (834, 15132), (846, 15195), (848, 15201), (852, 15210), (855, 15219), (883, 15402), (889, 15501), (895, 15534), (897, 15543), (901, 15564), (923, 15696), (925, 15702), (931, 15750), (934, 15780), (937, 15795), (947, 15894),

Gene: DanBing_15 Start: 10683, Stop: 15806, Start Num: 17

Candidate Starts for DanBing_15:

(Start: 17 @10683 has 104 MA's), (18, 10695), (21, 10713), (Start: 22 @10719 has 1 MA's), (23, 10722), (29, 10785), (33, 10830), (51, 10971), (55, 10989), (56, 10998), (62, 11028), (66, 11052), (69, 11058), (72, 11073), (73, 11076), (78, 11091), (79, 11100), (84, 11121), (92, 11187), (97, 11226), (102, 11289), (108, 11334), (109, 11337), (114, 11397), (118, 11421), (125, 11481), (130, 11523), (133, 11544), (140, 11607), (144, 11649), (147, 11673), (151, 11685), (153, 11691), (157, 11736), (162, 11772), (176, 11916), (178, 11928), (188, 11991), (189, 11994), (190, 12015), (199, 12117), (213, 12288), (217, 12318), (223, 12348), (225, 12354), (237, 12429), (257, 12507), (273, 12573), (280, 12597), (281, 12603), (291, 12639), (299, 12687), (300, 12690), (305, 12711), (308, 12720), (316, 12747), (319, 12759), (330, 12825), (342, 12873), (394, 13149), (419, 13236), (422, 13257), (448,

13398), (451, 13410), (471, 13503), (477, 13539), (488, 13620), (495, 13656), (508, 13743), (509, 13746), (511, 13752), (516, 13764), (549, 13845), (555, 13860), (561, 13878), (586, 13938), (611, 14034), (623, 14070), (647, 14196), (652, 14211), (668, 14250), (674, 14271), (678, 14289), (682, 14322), (683, 14325), (722, 14502), (733, 14544), (736, 14556), (739, 14574), (751, 14622), (754, 14628), (770, 14715), (822, 14964), (834, 15036), (846, 15099), (848, 15105), (852, 15114), (855, 15123), (883, 15306), (889, 15405), (895, 15438), (897, 15447), (901, 15468), (923, 15600), (925, 15606), (931, 15654), (934, 15684), (937, 15699), (947, 15798),

Gene: Diminimus_27 Start: 14635, Stop: 21456, Start Num: 17

Candidate Starts for Diminimus_27:

(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: DirkDirk_16 Start: 10838, Stop: 15769, Start Num: 17

Candidate Starts for DirkDirk_16:

(Start: 17 @10838 has 104 MA's), (21, 10868), (Start: 22 @10874 has 1 MA's), (23, 10877), (33, 10985), (41, 11045), (44, 11066), (47, 11102), (52, 11129), (53, 11132), (56, 11153), (57, 11162), (60, 11177), (65, 11204), (69, 11213), (71, 11225), (73, 11231), (79, 11255), (82, 11267), (85, 11279), (86, 11282), (88, 11297), (90, 11339), (95, 11366), (97, 11381), (108, 11489), (117, 11573), (125, 11636), (130, 11678), (133, 11699), (140, 11762), (151, 11840), (157, 11891), (165, 11960), (178, 12083), (180, 12092), (183, 12116), (184, 12125), (188, 12146), (189, 12149), (195, 12239), (205, 12329), (207, 12350), (218, 12476), (223, 12503), (224, 12506), (225, 12509), (229, 12536), (232, 12560), (235, 12569), (237, 12584), (252, 12641), (257, 12662), (261, 12674), (282, 12764), (283, 12767), (299, 12842), (319, 12914), (321, 12923), (332, 12992), (342, 13025), (360, 13094), (365, 13112), (386, 13265), (395, 13313), (396, 13316), (403, 13337), (409, 13358), (414, 13382), (415, 13406), (422, 13433), (424, 13439), (434, 13472), (435, 13475), (443, 13517), (473, 13667), (479, 13718), (480, 13721), (487, 13763), (488, 13766), (491, 13784), (495, 13802), (523, 13910), (525, 13913), (541, 13958), (592, 14063), (596, 14081), (615, 14150), (616, 14159), (619, 14165), (626, 14201), (630, 14219), (637, 14249), (638, 14258), (664, 14360), (675, 14420), (679, 14435), (686, 14477), (688, 14480), (713, 14600), (745, 14726), (746, 14729), (757, 14762), (765, 14798), (770, 14831), (771, 14834), (775, 14849), (778, 14861), (786, 14900), (809, 14987), (826, 15110), (836, 15143), (839, 15158), (844, 15164), (867, 15191), (875, 15233), (907, 15485), (923, 15563), (925, 15569), (931, 15617), (932, 15620), (937, 15662), (939, 15665), (947, 15761),

Gene: Douge_16 Start: 10512, Stop: 15611, Start Num: 17

Candidate Starts for Douge_16:

(Start: 17 @10512 has 104 MA's), (21, 10542), (23, 10551), (33, 10659), (38, 10689), (47, 10791), (51, 10815), (61, 10869), (62, 10872), (66, 10896), (69, 10902), (73, 10920), (78, 10935), (82, 10956), (85, 10968), (102, 11133), (108, 11178), (131, 11370), (133, 11388), (136, 11409), (137, 11415), (140, 11451), (144, 11493), (153, 11535), (156, 11571), (157, 11580), (159, 11595), (162, 11616), (167, 11661), (179, 11775), (188, 11835), (194, 11919), (199, 11961), (205, 12018), (210, 12093), (217,

12162), (223, 12192), (229, 12225), (237, 12273), (248, 12318), (249, 12321), (254, 12339), (272, 12420), (278, 12441), (279, 12444), (283, 12462), (299, 12537), (305, 12561), (316, 12597), (328, 12666), (339, 12711), (342, 12720), (349, 12753), (357, 12780), (363, 12804), (366, 12831), (367, 12840), (422, 13116), (437, 13170), (441, 13194), (449, 13260), (453, 13272), (456, 13281), (468, 13335), (470, 13347), (473, 13359), (477, 13386), (485, 13452), (486, 13455), (488, 13464), (495, 13500), (502, 13533), (503, 13560), (508, 13587), (509, 13590), (583, 13743), (586, 13764), (623, 13896), (630, 13947), (645, 14010), (665, 14061), (667, 14085), (678, 14130), (682, 14163), (703, 14262), (708, 14274), (733, 14376), (736, 14388), (751, 14454), (754, 14460), (755, 14463), (770, 14547), (780, 14586), (781, 14592), (787, 14625), (822, 14796), (833, 14865), (836, 14877), (841, 14904), (842, 14907), (875, 15075), (876, 15084), (879, 15090), (889, 15207), (899, 15258), (903, 15276), (904, 15291), (916, 15366), (919, 15381), (923, 15399), (925, 15405), (931, 15459), (932, 15462), (937, 15504), (947, 15603),

Gene: Douzhi_16 Start: 10512, Stop: 15602, Start Num: 17

Candidate Starts for Douzhi_16:

(Start: 17 @10512 has 104 MA's), (21, 10542), (23, 10551), (33, 10659), (38, 10689), (47, 10791), (51, 10815), (61, 10869), (62, 10872), (66, 10896), (69, 10902), (73, 10920), (74, 10923), (78, 10935), (82, 10956), (102, 11133), (108, 11178), (125, 11325), (131, 11370), (133, 11388), (136, 11409), (137, 11415), (140, 11451), (144, 11493), (149, 11523), (153, 11535), (156, 11571), (157, 11580), (159, 11595), (162, 11616), (167, 11661), (184, 11814), (194, 11919), (199, 11961), (204, 12015), (205, 12018), (210, 12093), (212, 12129), (217, 12162), (223, 12192), (225, 12198), (233, 12252), (237, 12273), (242, 12291), (247, 12315), (248, 12318), (249, 12321), (254, 12339), (267, 12390), (269, 12402), (270, 12408), (272, 12420), (278, 12441), (279, 12444), (282, 12459), (283, 12462), (299, 12537), (305, 12561), (316, 12597), (328, 12666), (339, 12711), (342, 12720), (349, 12753), (356, 12777), (357, 12780), (363, 12804), (366, 12831), (367, 12840), (374, 12894), (391, 12990), (422, 13116), (437, 13170), (441, 13194), (449, 13260), (453, 13272), (456, 13281), (468, 13335), (470, 13347), (473, 13359), (477, 13386), (485, 13452), (486, 13455), (488, 13464), (495, 13500), (501, 13530), (508, 13572), (509, 13575), (583, 13734), (586, 13755), (623, 13887), (630, 13938), (638, 13977), (645, 14001), (654, 14025), (665, 14052), (667, 14076), (678, 14121), (703, 14253), (708, 14265), (733, 14367), (736, 14379), (751, 14445), (754, 14451), (755, 14454), (770, 14538), (780, 14577), (781, 14583), (822, 14787), (833, 14856), (836, 14868), (841, 14895), (842, 14898), (875, 15066), (876, 15075), (879, 15081), (889, 15198), (899, 15249), (903, 15267), (904, 15282), (916, 15357), (919, 15372), (923, 15390), (925, 15396), (931, 15450), (932, 15453), (937, 15495), (947, 15594),

Gene: DrSeegs_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for DrSeegs_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Dulcita_27 Start: 14635, Stop: 21456, Start Num: 17

Candidate Starts for Dulcita_27:

(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: DuncansLeg_17 Start: 10981, Stop: 16401, Start Num: 17

Candidate Starts for DuncansLeg_17:

(Start: 17 @10981 has 104 MA's), (21, 11011), (23, 11020), (32, 11101), (33, 11128), (34, 11131), (45, 11230), (58, 11326), (66, 11365), (73, 11389), (74, 11392), (78, 11404), (97, 11539), (102, 11602), (108, 11647), (109, 11650), (125, 11794), (131, 11839), (139, 11899), (140, 11920), (144, 11962), (153, 12004), (157, 12049), (160, 12070), (188, 12304), (189, 12307), (199, 12430), (200, 12439), (208, 12547), (209, 12556), (224, 12664), (225, 12667), (231, 12715), (233, 12721), (237, 12742), (242, 12760), (255, 12811), (269, 12871), (279, 12913), (299, 13006), (305, 13030), (312, 13051), (316, 13066), (321, 13087), (329, 13132), (333, 13147), (352, 13222), (376, 13360), (387, 13405), (420, 13531), (423, 13546), (430, 13570), (443, 13630), (473, 13786), (477, 13813), (479, 13840), (488, 13888), (494, 13921), (503, 13981), (535, 14119), (537, 14122), (542, 14164), (585, 14338), (593, 14356), (595, 14365), (610, 14437), (624, 14485), (626, 14512), (629, 14530), (661, 14689), (671, 14746), (677, 14782), (680, 14791), (684, 14827), (699, 14905), (701, 14926), (721, 15037), (730, 15079), (731, 15085), (733, 15094), (740, 15139), (743, 15148), (752, 15193), (754, 15205), (793, 15430), (797, 15442), (813, 15514), (826, 15616), (841, 15676), (847, 15706), (850, 15712), (853, 15727), (858, 15781), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (925, 16195), (931, 16249), (932, 16252), (937, 16294), (939, 16297), (947, 16393),

Gene: DyoEdafos_17 Start: 10725, Stop: 15818, Start Num: 17

Candidate Starts for DyoEdafos_17:

(Start: 17 @10725 has 104 MA's), (21, 10755), (23, 10764), (33, 10872), (38, 10902), (47, 11004), (61, 11082), (62, 11085), (66, 11109), (69, 11115), (73, 11133), (78, 11148), (82, 11169), (85, 11181), (86, 11184), (102, 11346), (108, 11391), (136, 11622), (137, 11628), (140, 11664), (144, 11706), (153, 11748), (156, 11784), (157, 11793), (159, 11808), (162, 11829), (167, 11874), (188, 12048), (199, 12174), (205, 12231), (210, 12306), (217, 12375), (223, 12405), (225, 12411), (233, 12465), (237, 12486), (249, 12534), (254, 12552), (272, 12633), (278, 12654), (279, 12657), (283, 12675), (288, 12690), (297, 12732), (299, 12750), (305, 12774), (316, 12810), (328, 12879), (335, 12906), (339, 12924), (342, 12933), (349, 12966), (356, 12990), (357, 12993), (363, 13017), (366, 13044), (367, 13053), (391, 13203), (411, 13272), (422, 13329), (441, 13407), (449, 13473), (456, 13494), (468, 13548), (470, 13560), (473, 13572), (477, 13599), (485, 13665), (486, 13668), (488, 13677), (495, 13713), (501, 13743), (508, 13785), (509, 13788), (511, 13794), (522, 13821), (582, 13941), (586, 13965), (623, 14097), (630, 14148), (665, 14262), (667, 14286), (670, 14301), (676, 14322), (678, 14331), (682, 14364), (703, 14463), (708, 14475), (733, 14577), (736, 14589), (750, 14652), (751, 14655), (770, 14748), (780, 14787), (781, 14793), (822, 14997), (836, 15078), (841, 15105), (842, 15108), (855, 15153), (876, 15285), (879, 15291), (889, 15408), (899, 15459), (903, 15477), (904,

15492), (916, 15573), (919, 15588), (923, 15606), (925, 15612), (931, 15666), (932, 15669), (937, 15711),

Gene: Ellson_17 Start: 10989, Stop: 16409, Start Num: 17

Candidate Starts for Ellson_17:

(Start: 17 @10989 has 104 MA's), (21, 11019), (23, 11028), (32, 11109), (33, 11136), (34, 11139), (45, 11238), (58, 11334), (66, 11373), (73, 11397), (74, 11400), (78, 11412), (97, 11547), (102, 11610), (108, 11655), (109, 11658), (125, 11802), (131, 11847), (139, 11907), (140, 11928), (153, 12012), (157, 12057), (160, 12078), (167, 12138), (188, 12312), (189, 12315), (199, 12438), (200, 12447), (208, 12555), (209, 12564), (224, 12672), (225, 12675), (231, 12723), (233, 12729), (237, 12750), (242, 12768), (255, 12819), (269, 12879), (279, 12921), (299, 13014), (305, 13038), (312, 13059), (316, 13074), (321, 13095), (329, 13140), (333, 13155), (352, 13230), (376, 13368), (387, 13413), (420, 13539), (423, 13554), (430, 13578), (443, 13638), (473, 13794), (477, 13821), (479, 13848), (488, 13896), (494, 13929), (503, 13989), (535, 14127), (537, 14130), (542, 14172), (585, 14346), (593, 14364), (595, 14373), (610, 14445), (624, 14493), (626, 14520), (629, 14538), (661, 14697), (671, 14754), (677, 14790), (680, 14799), (684, 14835), (699, 14913), (701, 14934), (721, 15045), (730, 15087), (731, 15093), (733, 15102), (740, 15147), (743, 15156), (752, 15201), (754, 15213), (793, 15438), (797, 15450), (813, 15522), (826, 15624), (839, 15672), (841, 15684), (847, 15714), (850, 15720), (853, 15735), (858, 15789), (895, 16041), (899, 16059), (903, 16077), (904, 16092), (913, 16152), (923, 16197), (925, 16203), (931, 16257), (932, 16260), (937, 16302), (939, 16305), (947, 16401),

Gene: Enceladus_16 Start: 10839, Stop: 15770, Start Num: 17

Candidate Starts for Enceladus_16:

(Start: 17 @10839 has 104 MA's), (21, 10869), (Start: 22 @10875 has 1 MA's), (23, 10878), (33, 10986), (41, 11046), (44, 11067), (47, 11103), (52, 11130), (53, 11133), (56, 11154), (57, 11163), (60, 11178), (65, 11205), (69, 11214), (71, 11226), (73, 11232), (79, 11256), (82, 11268), (85, 11280), (86, 11283), (88, 11298), (90, 11340), (95, 11367), (97, 11382), (108, 11490), (117, 11574), (125, 11637), (130, 11679), (133, 11700), (140, 11763), (151, 11841), (157, 11892), (165, 11961), (178, 12084), (180, 12093), (183, 12117), (184, 12126), (188, 12147), (189, 12150), (195, 12240), (205, 12330), (207, 12351), (218, 12477), (223, 12504), (224, 12507), (225, 12510), (229, 12537), (232, 12561), (235, 12570), (237, 12585), (252, 12642), (257, 12663), (261, 12675), (282, 12765), (283, 12768), (299, 12843), (319, 12915), (321, 12924), (332, 12993), (342, 13026), (360, 13095), (365, 13113), (386, 13266), (395, 13314), (396, 13317), (403, 13338), (409, 13359), (414, 13383), (415, 13407), (422, 13434), (424, 13440), (434, 13473), (435, 13476), (443, 13518), (473, 13668), (479, 13719), (480, 13722), (487, 13764), (488, 13767), (491, 13785), (495, 13803), (511, 13899), (523, 13911), (525, 13914), (541, 13959), (592, 14064), (596, 14082), (615, 14151), (616, 14160), (619, 14166), (626, 14202), (630, 14220), (637, 14250), (638, 14259), (664, 14361), (675, 14421), (679, 14436), (686, 14478), (688, 14481), (713, 14601), (745, 14727), (746, 14730), (757, 14763), (765, 14799), (770, 14832), (771, 14835), (775, 14850), (778, 14862), (786, 14901), (809, 14988), (826, 15111), (836, 15144), (839, 15159), (844, 15165), (867, 15192), (875, 15234), (907, 15486), (923, 15564), (925, 15570), (931, 15618), (932, 15621), (937, 15663), (939, 15666), (947, 15762),

Gene: EniyanLRS_35 Start: 17426, Stop: 23401, Start Num: 17

Candidate Starts for EniyanLRS_35:

(Start: 17 @17426 has 104 MA's), (26, 17495), (27, 17507), (51, 17708), (55, 17726), (67, 17792), (81, 17855), (85, 17870), (86, 17873), (90, 17942), (102, 18047), (104, 18059), (106, 18074), (108, 18092), (116, 18170), (117, 18176), (121, 18197), (125, 18239), (131, 18284), (132, 18293), (133, 18302), (136, 18323), (138, 18344), (142, 18389), (144, 18422), (147, 18446), (150, 18455), (154, 18476), (163, 18554), (171, 18626), (172, 18635), (174, 18668), (186, 18749), (187, 18752), (200, 18893), (202, 18938), (208, 19007), (214, 19070), (220, 19103), (224, 19124), (228, 19154), (230, 19166), (231, 19184), (232, 19187), (237, 19211), (245, 19244), (262, 19304), (264, 19310), (266, 19322), (268, 19334), (275, 19364), (293, 19418), (299, 19439), (307, 19469), (313, 19481), (322, 19505),

(324, 19511), (334, 19565), (337, 19577), (348, 19619), (351, 19634), (359, 19652), (364, 19670), (370, 19724), (372, 19733), (398, 19850), (399, 19853), (406, 19877), (428, 19943), (454, 20042), (455, 20045), (460, 20057), (481, 20198), (494, 20267), (517, 20393), (531, 20435), (544, 20489), (546, 20492), (550, 20507), (562, 20543), (573, 20597), (579, 20627), (580, 20642), (584, 20675), (604, 20747), (608, 20771), (620, 20810), (628, 20846), (644, 20921), (708, 21221), (729, 21314), (735, 21341), (759, 21449), (761, 21470), (766, 21488), (773, 21527), (801, 21656), (805, 21671), (819, 21758), (823, 21767), (831, 21812), (840, 21854), (845, 21878), (849, 21896), (854, 21911), (868, 22022), (870, 22034), (878, 22058), (893, 22151), (894, 22154), (899, 22169), (905, 22205), (906, 22214), (909, 22226), (928, 22310), (929, 22316), (930, 22319), (933, 22346), (940, 22382), (942, 22403), (943, 22406), (944, 22439), (949, 22472), (950, 22496), (951, 22517), (952, 22532), (954, 22547), (955, 22556), (961, 22622), (968, 22745), (970, 22769), (974, 22814), (975, 22835), (977, 22880), (982, 22910), (988, 23021), (999, 23135), (1003, 23186), (1005, 23195), (1009, 23240), (1015, 23282), (1017, 23288), (1019, 23300), (1022, 23354), (1023, 23357),

Gene: Estes_31 Start: 15359, Stop: 22177, Start Num: 17

Candidate Starts for Estes_31:

(Start: 17 @15359 has 104 MA's), (28, 15449), (36, 15509), (40, 15551), (80, 15791), (87, 15821), (93, 15893), (100, 15959), (107, 16010), (108, 16022), (110, 16031), (120, 16118), (123, 16151), (128, 16193), (130, 16211), (161, 16442), (180, 16619), (188, 16673), (197, 16781), (200, 16808), (214, 16985), (219, 17015), (223, 17036), (232, 17102), (234, 17108), (239, 17132), (245, 17159), (246, 17162), (256, 17201), (259, 17219), (295, 17378), (324, 17507), (343, 17615), (388, 17903), (394, 17933), (397, 17948), (412, 18008), (442, 18152), (450, 18230), (458, 18257), (482, 18434), (483, 18446), (491, 18485), (496, 18512), (512, 18611), (513, 18641), (515, 18650), (540, 18755), (547, 18776), (584, 18959), (633, 19190), (635, 19193), (640, 19256), (658, 19331), (660, 19346), (710, 19631), (720, 19676), (734, 19739), (760, 19862), (774, 19934), (777, 19946), (789, 20024), (804, 20111), (829, 20306), (843, 20381), (865, 20549), (868, 20561), (882, 20633), (884, 20642), (953, 21230), (958, 21320), (963, 21413), (965, 21443), (971, 21515), (978, 21644), (983, 21725), (991, 21839), (992, 21851), (1007, 21974), (1010, 22016), (1014, 22055), (1024, 22151),

Gene: Faith1_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Faith1_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Farewell_14 Start: 9733, Stop: 15126, Start Num: 6

Candidate Starts for Farewell_14:

(Start: 6 @9733 has 2 MA's), (8, 9814), (9, 9823), (10, 9844), (11, 9850), (12, 9865), (13, 9874), (24, 10006), (36, 10126), (50, 10270), (51, 10279), (54, 10294), (57, 10315), (68, 10366), (75, 10390), (83, 10429), (91, 10507), (101, 10600), (104, 10621), (117, 10729), (118, 10732), (121, 10750), (127,

10807), (129, 10831), (133, 10855), (134, 10858), (141, 10951), (146, 11002), (153, 11035), (154, 11047), (177, 11263), (194, 11419), (196, 11440), (205, 11512), (217, 11656), (220, 11668), (222, 11680), (224, 11689), (228, 11710), (232, 11743), (246, 11803), (249, 11815), (255, 11836), (263, 11866), (269, 11890), (284, 11962), (296, 12004), (298, 12016), (302, 12034), (304, 12043), (323, 12109), (327, 12136), (363, 12301), (375, 12388), (384, 12445), (385, 12448), (392, 12481), (409, 12547), (426, 12619), (440, 12679), (444, 12700), (467, 12823), (475, 12880), (493, 12991), (503, 13060), (525, 13120), (538, 13159), (558, 13213), (565, 13231), (575, 13264), (582, 13288), (586, 13306), (599, 13357), (601, 13366), (612, 13420), (639, 13552), (643, 13582), (666, 13672), (681, 13750), (683, 13771), (691, 13810), (693, 13819), (700, 13867), (741, 14050), (747, 14083), (755, 14107), (772, 14200), (792, 14296), (796, 14323), (805, 14362), (813, 14407), (818, 14455), (827, 14515), (842, 14581), (873, 14770), (886, 14839), (888, 14896), (892, 14920), (896, 14947), (902, 14971), (910, 15031), (912, 15058), (914, 15061),

Gene: FarmResident_16 Start: 10556, Stop: 15655, Start Num: 17

Candidate Starts for FarmResident_16:

(Start: 17 @10556 has 104 MA's), (21, 10586), (23, 10595), (33, 10703), (38, 10733), (47, 10835), (51, 10859), (61, 10913), (62, 10916), (66, 10940), (69, 10946), (73, 10964), (78, 10979), (82, 11000), (85, 11012), (102, 11177), (108, 11222), (131, 11414), (133, 11432), (136, 11453), (137, 11459), (140, 11495), (144, 11537), (153, 11579), (156, 11615), (157, 11624), (159, 11639), (162, 11660), (167, 11705), (194, 11963), (199, 12005), (205, 12062), (210, 12137), (217, 12206), (223, 12236), (233, 12296), (237, 12317), (242, 12335), (247, 12359), (248, 12362), (249, 12365), (254, 12383), (267, 12434), (269, 12446), (270, 12452), (272, 12464), (278, 12485), (279, 12488), (282, 12503), (283, 12506), (299, 12581), (305, 12605), (316, 12641), (328, 12710), (339, 12755), (342, 12764), (349, 12797), (356, 12821), (357, 12824), (363, 12848), (366, 12875), (367, 12884), (374, 12938), (422, 13160), (437, 13214), (441, 13238), (449, 13304), (453, 13316), (456, 13325), (468, 13379), (470, 13391), (473, 13403), (477, 13430), (485, 13496), (486, 13499), (488, 13508), (495, 13544), (502, 13577), (503, 13604), (508, 13631), (509, 13634), (583, 13787), (586, 13808), (623, 13940), (630, 13991), (645, 14054), (665, 14105), (667, 14129), (678, 14174), (682, 14207), (703, 14306), (708, 14318), (733, 14420), (736, 14432), (751, 14498), (754, 14504), (755, 14507), (770, 14591), (780, 14630), (781, 14636), (787, 14669), (822, 14840), (833, 14909), (836, 14921), (841, 14948), (842, 14951), (875, 15119), (876, 15128), (879, 15134), (889, 15251), (899, 15302), (903, 15320), (904, 15335), (916, 15410), (919, 15425), (923, 15443), (925, 15449), (931, 15503), (932, 15506), (937, 15548), (947, 15647),

Gene: FeliMaine_50 Start: 20890, Stop: 26439, Start Num: 1

Candidate Starts for FeliMaine_50:

(Start: 1 @20890 has 18 MA's), (Start: 2 @20932 has 2 MA's), (3, 21076), (4, 21094), (5, 21106), (7, 21259), (15, 21418), (Start: 16 @21430 has 1 MA's), (20, 21463), (30, 21544), (31, 21547), (35, 21592), (37, 21613), (39, 21640), (43, 21682), (48, 21724), (57, 21784), (63, 21808), (70, 21844), (71, 21847), (89, 21928), (91, 21976), (96, 22006), (105, 22102), (114, 22186), (115, 22189), (122, 22237), (130, 22312), (137, 22360), (143, 22456), (146, 22474), (148, 22492), (152, 22504), (157, 22552), (161, 22576), (162, 22588), (164, 22609), (173, 22708), (181, 22756), (185, 22789), (190, 22831), (195, 22900), (201, 22969), (204, 22978), (205, 22981), (214, 23101), (216, 23113), (221, 23143), (230, 23188), (232, 23209), (240, 23245), (250, 23272), (257, 23299), (258, 23302), (260, 23311), (274, 23368), (336, 23611), (344, 23632), (353, 23674), (366, 23734), (402, 23929), (407, 23944), (409, 23953), (413, 23977), (416, 23989), (418, 23992), (421, 24007), (429, 24040), (446, 24118), (463, 24205), (469, 24241), (477, 24289), (479, 24316), (501, 24430), (504, 24463), (518, 24508), (537, 24559), (557, 24607), (560, 24616), (566, 24637), (591, 24718), (599, 24760), (617, 24838), (618, 24841), (634, 24907), (642, 24958), (663, 25027), (692, 25183), (698, 25222), (719, 25324), (723, 25336), (762, 25489), (764, 25492), (785, 25603), (790, 25621), (794, 25651), (805, 25693), (811, 25732), (820, 25783), (859, 25993), (870, 26071), (885, 26149), (890, 26227), (915, 26377), (917, 26383),

Gene: Finemlucis_16 Start: 10856, Stop: 15991, Start Num: 17

Candidate Starts for Finemlucis_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (135, 11702), (139, 11738), (140, 11759), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (330, 12977), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13973), (582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300), (647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456), (676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (728, 14699), (733, 14729), (736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197), (841, 15257), (846, 15284), (848, 15290), (852, 15299), (855, 15308), (875, 15458), (883, 15491), (889, 15590), (895, 15623), (897, 15632), (901, 15653), (923, 15785), (925, 15791), (931, 15839), (934, 15869), (937, 15884), (947, 15983),

Gene: Finnry_17 Start: 10973, Stop: 16405, Start Num: 17

Candidate Starts for Finnry_17:

(Start: 17 @10973 has 104 MA's), (21, 11003), (23, 11012), (32, 11093), (33, 11120), (34, 11123), (45, 11222), (58, 11318), (62, 11333), (66, 11357), (73, 11381), (74, 11384), (78, 11396), (97, 11531), (102, 11594), (108, 11639), (109, 11642), (125, 11786), (133, 11849), (140, 11912), (153, 11996), (160, 12062), (182, 12251), (188, 12296), (189, 12299), (199, 12422), (200, 12431), (208, 12539), (209, 12548), (224, 12656), (225, 12659), (230, 12689), (231, 12707), (233, 12713), (237, 12734), (242, 12752), (255, 12803), (269, 12863), (271, 12881), (279, 12905), (299, 12998), (305, 13022), (312, 13043), (316, 13058), (321, 13079), (329, 13124), (333, 13139), (352, 13214), (376, 13352), (387, 13397), (420, 13523), (423, 13538), (430, 13562), (432, 13568), (434, 13574), (443, 13622), (473, 13778), (477, 13805), (479, 13832), (488, 13880), (494, 13913), (495, 13916), (503, 13973), (535, 14111), (537, 14114), (585, 14333), (593, 14351), (595, 14360), (610, 14435), (624, 14483), (626, 14510), (629, 14528), (661, 14684), (671, 14741), (677, 14777), (680, 14786), (684, 14822), (699, 14900), (701, 14921), (717, 15005), (721, 15032), (730, 15074), (731, 15080), (733, 15089), (740, 15134), (743, 15143), (752, 15188), (754, 15200), (793, 15425), (813, 15509), (826, 15611), (839, 15659), (841, 15671), (847, 15701), (850, 15707), (853, 15722), (858, 15776), (889, 16004), (895, 16037), (899, 16055), (903, 16073), (904, 16088), (913, 16148), (923, 16193), (931, 16253), (937, 16298), (939, 16301), (947, 16397),

Gene: FreakyGoo_27 Start: 14636, Stop: 21457, Start Num: 17

Candidate Starts for FreakyGoo_27:

(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972,

20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: Gabriela_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Gabriela_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Gardann_16 Start: 10855, Stop: 15990, Start Num: 17

Candidate Starts for Gardann_16:

(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: GardenSalsa_30 Start: 15195, Stop: 22001, Start Num: 17

Candidate Starts for GardenSalsa_30:

(Start: 17 @15195 has 104 MA's), (28, 15285), (36, 15345), (40, 15387), (80, 15627), (87, 15657), (93, 15729), (100, 15795), (107, 15846), (108, 15858), (110, 15867), (120, 15954), (123, 15987), (128, 16029), (130, 16047), (161, 16278), (169, 16344), (180, 16455), (188, 16509), (197, 16617), (200, 16644), (214, 16821), (219, 16851), (223, 16872), (232, 16938), (234, 16944), (239, 16968), (245, 16995), (246, 16998), (256, 17037), (259, 17055), (295, 17214), (310, 17289), (324, 17343), (343, 17451), (388, 17739), (394, 17769), (397, 17784), (412, 17844), (433, 17940), (442, 17988), (450, 18066), (458, 18093), (460, 18105), (482, 18270), (483, 18282), (491, 18321), (496, 18348), (512, 18447), (513, 18477), (515, 18486), (540, 18591), (547, 18612), (584, 18795), (633, 19026), (635,

19029), (640, 19092), (658, 19167), (660, 19182), (710, 19467), (734, 19563), (760, 19686), (774, 19758), (777, 19770), (789, 19848), (804, 19935), (829, 20130), (830, 20142), (843, 20205), (865, 20373), (868, 20385), (882, 20457), (884, 20466), (953, 21054), (958, 21144), (963, 21237), (965, 21267), (971, 21339), (978, 21468), (983, 21549), (991, 21663), (992, 21675), (1004, 21783), (1007, 21798), (1014, 21879), (1024, 21975),

Gene: Gattaca_47 Start: 20069, Stop: 25618, Start Num: 1

Candidate Starts for Gattaca_47:

(Start: 1 @20069 has 18 MA's), (Start: 2 @20111 has 2 MA's), (3, 20255), (4, 20273), (5, 20285), (7, 20438), (15, 20597), (Start: 16 @20609 has 1 MA's), (20, 20642), (30, 20723), (31, 20726), (35, 20771), (37, 20792), (39, 20819), (43, 20861), (48, 20903), (57, 20963), (63, 20987), (70, 21023), (71, 21026), (75, 21038), (89, 21107), (91, 21155), (96, 21185), (105, 21281), (114, 21365), (115, 21368), (122, 21416), (130, 21491), (137, 21539), (143, 21635), (146, 21653), (148, 21671), (152, 21683), (157, 21731), (161, 21755), (162, 21767), (164, 21788), (173, 21887), (181, 21935), (185, 21968), (190, 22010), (195, 22079), (201, 22148), (204, 22157), (205, 22160), (214, 22280), (216, 22292), (221, 22322), (230, 22367), (232, 22388), (240, 22424), (250, 22451), (257, 22478), (258, 22481), (260, 22490), (274, 22547), (313, 22676), (336, 22790), (344, 22811), (353, 22853), (366, 22913), (402, 23108), (407, 23123), (409, 23132), (413, 23156), (416, 23168), (418, 23171), (421, 23186), (429, 23219), (446, 23297), (463, 23384), (469, 23420), (477, 23468), (479, 23495), (501, 23609), (504, 23642), (518, 23687), (537, 23738), (557, 23786), (560, 23795), (566, 23816), (591, 23897), (599, 23939), (617, 24017), (618, 24020), (634, 24086), (642, 24137), (663, 24206), (692, 24362), (698, 24401), (719, 24503), (723, 24515), (762, 24668), (764, 24671), (785, 24782), (794, 24830), (805, 24872), (811, 24911), (820, 24962), (859, 25172), (870, 25250), (885, 25328), (890, 25406), (915, 25556), (917, 25562),

Gene: GenevaB15_30 Start: 15222, Stop: 22046, Start Num: 17

Candidate Starts for GenevaB15_30:

(Start: 17 @15222 has 104 MA's), (28, 15312), (36, 15372), (40, 15414), (80, 15654), (87, 15684), (100, 15822), (107, 15873), (108, 15885), (110, 15894), (120, 15981), (123, 16014), (130, 16074), (161, 16305), (169, 16371), (176, 16461), (180, 16482), (188, 16536), (197, 16644), (200, 16671), (214, 16848), (219, 16878), (232, 16965), (234, 16971), (239, 16995), (245, 17022), (246, 17025), (256, 17064), (259, 17082), (295, 17241), (310, 17316), (324, 17370), (343, 17478), (345, 17484), (388, 17766), (394, 17796), (397, 17811), (412, 17871), (436, 17985), (442, 18015), (450, 18093), (458, 18120), (482, 18297), (483, 18309), (491, 18348), (512, 18474), (513, 18504), (515, 18513), (540, 18618), (547, 18639), (584, 18822), (633, 19053), (635, 19056), (640, 19119), (658, 19194), (710, 19494), (760, 19731), (774, 19803), (777, 19815), (789, 19893), (804, 19980), (829, 20175), (843, 20250), (865, 20418), (868, 20430), (882, 20502), (884, 20511), (953, 21099), (958, 21189), (959, 21213), (963, 21282), (965, 21312), (971, 21384), (978, 21513), (983, 21594), (991, 21708), (992, 21720), (993, 21735), (1007, 21843), (1014, 21924), (1024, 22020),

Gene: Glaske16_27 Start: 14635, Stop: 21456, Start Num: 17

Candidate Starts for Glaske16_27:

(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851,

19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: GoongGoong_47 Start: 20109, Stop: 25658, Start Num: 1

Candidate Starts for GoongGoong_47:

(Start: 1 @20109 has 18 MA's), (Start: 2 @20151 has 2 MA's), (3, 20295), (4, 20313), (5, 20325), (7, 20478), (15, 20637), (Start: 16 @20649 has 1 MA's), (20, 20682), (30, 20763), (31, 20766), (35, 20811), (37, 20832), (39, 20859), (43, 20901), (48, 20943), (57, 21003), (63, 21027), (70, 21063), (71, 21066), (89, 21147), (91, 21195), (96, 21225), (114, 21405), (115, 21408), (122, 21456), (130, 21531), (137, 21579), (143, 21675), (146, 21693), (148, 21711), (152, 21723), (157, 21771), (161, 21795), (162, 21807), (164, 21828), (173, 21927), (181, 21975), (185, 22008), (190, 22050), (195, 22119), (201, 22188), (204, 22197), (205, 22200), (214, 22320), (216, 22332), (221, 22362), (230, 22407), (232, 22428), (240, 22464), (250, 22491), (257, 22518), (258, 22521), (260, 22530), (274, 22587), (313, 22716), (336, 22830), (344, 22851), (353, 22893), (366, 22953), (402, 23148), (407, 23163), (409, 23172), (413, 23196), (416, 23208), (418, 23211), (421, 23226), (429, 23259), (446, 23337), (463, 23424), (469, 23460), (477, 23508), (479, 23535), (501, 23649), (504, 23682), (518, 23727), (537, 23778), (557, 23826), (560, 23835), (566, 23856), (591, 23937), (599, 23979), (617, 24057), (618, 24060), (634, 24126), (642, 24177), (663, 24246), (692, 24402), (698, 24441), (719, 24543), (723, 24555), (762, 24708), (764, 24711), (785, 24822), (790, 24840), (794, 24870), (805, 24912), (811, 24951), (820, 25002), (859, 25212), (870, 25290), (885, 25368), (890, 25446), (915, 25596), (917, 25602),

Gene: GuuelaD_16 Start: 10890, Stop: 16019, Start Num: 17

Candidate Starts for GuuelaD_16:

(Start: 17 @10890 has 104 MA's), (Start: 22 @10926 has 1 MA's), (23, 10929), (29, 10992), (33, 11037), (40, 11091), (55, 11175), (56, 11184), (66, 11238), (72, 11259), (73, 11262), (74, 11265), (79, 11286), (82, 11298), (85, 11310), (88, 11328), (92, 11373), (97, 11412), (102, 11475), (108, 11520), (109, 11523), (111, 11541), (114, 11583), (130, 11709), (135, 11736), (139, 11772), (140, 11793), (146, 11844), (157, 11922), (162, 11958), (165, 11991), (178, 12114), (188, 12177), (189, 12180), (190, 12201), (196, 12282), (199, 12303), (204, 12357), (213, 12474), (217, 12504), (223, 12534), (225, 12540), (241, 12630), (243, 12639), (251, 12669), (252, 12672), (256, 12690), (257, 12693), (273, 12759), (276, 12765), (281, 12789), (283, 12798), (286, 12810), (291, 12825), (299, 12873), (305, 12897), (312, 12918), (316, 12933), (319, 12945), (330, 13011), (342, 13059), (389, 13314), (394, 13335), (419, 13422), (422, 13443), (427, 13461), (448, 13584), (451, 13596), (477, 13725), (488, 13806), (495, 13842), (537, 13998), (582, 14085), (586, 14103), (597, 14139), (623, 14235), (638, 14319), (641, 14346), (650, 14367), (656, 14400), (667, 14451), (668, 14457), (674, 14478), (678, 14496), (682, 14529), (683, 14532), (715, 14679), (720, 14700), (728, 14724), (733, 14754), (736, 14766), (739, 14784), (750, 14829), (751, 14832), (770, 14925), (812, 15114), (822, 15174), (841, 15282), (846, 15309), (848, 15315), (855, 15333), (883, 15516), (889, 15615), (895, 15648), (897, 15657), (901, 15678), (923, 15813), (925, 15819), (931, 15867), (932, 15870), (937, 15912), (947, 16011),

Gene: Hafay_16 Start: 10889, Stop: 16018, Start Num: 17

Candidate Starts for Hafay_16:

(Start: 17 @10889 has 104 MA's), (21, 10919), (Start: 22 @10925 has 1 MA's), (23, 10928), (29, 10991), (33, 11036), (34, 11039), (51, 11156), (56, 11183), (60, 11207), (66, 11237), (72, 11258), (74, 11264), (97, 11411), (102, 11474), (108, 11519), (109, 11522), (111, 11540), (114, 11582), (135, 11735), (139, 11771), (140, 11792), (147, 11858), (153, 11876), (157, 11921), (162, 11957), (173, 12077), (176, 12101), (188, 12176), (189, 12179), (190, 12200), (191, 12203), (192, 12227), (195, 12269), (199, 12302), (213, 12473), (217, 12503), (223, 12533), (241, 12629), (243, 12638), (249, 12662), (252, 12671), (257, 12692), (273, 12758), (281, 12788), (283, 12797), (288, 12812), (291, 12824), (299, 12872), (305, 12896), (316, 12932), (319, 12944), (330, 13010), (342, 13058), (394,

13334), (419, 13421), (422, 13442), (448, 13583), (451, 13595), (471, 13688), (475, 13718), (477, 13724), (488, 13805), (495, 13841), (537, 14000), (582, 14087), (583, 14090), (586, 14105), (597, 14141), (623, 14237), (630, 14288), (638, 14327), (647, 14363), (650, 14372), (656, 14405), (665, 14432), (667, 14456), (668, 14462), (674, 14483), (676, 14492), (678, 14501), (682, 14534), (683, 14537), (720, 14702), (728, 14726), (733, 14756), (736, 14768), (739, 14786), (750, 14831), (751, 14834), (770, 14927), (822, 15176), (826, 15224), (841, 15284), (846, 15311), (848, 15317), (852, 15326), (855, 15335), (875, 15485), (883, 15518), (889, 15617), (895, 15650), (897, 15659), (901, 15680), (923, 15812), (925, 15818), (931, 15866), (934, 15896), (937, 15911), (947, 16010),

Gene: Halena_16 Start: 10837, Stop: 15777, Start Num: 17

Candidate Starts for Halena_16:

(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (62, 11182), (65, 11203), (66, 11206), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14146), (616, 14155), (619, 14161), (626, 14197), (630, 14215), (637, 14245), (664, 14356), (675, 14416), (679, 14431), (686, 14473), (688, 14476), (713, 14596), (745, 14722), (746, 14725), (757, 14758), (765, 14794), (771, 14830), (775, 14845), (778, 14857), (809, 14983), (826, 15106), (836, 15139), (867, 15199), (875, 15241), (907, 15493), (923, 15571), (925, 15577), (931, 15625), (932, 15628), (937, 15670), (939, 15673), (947, 15769),

Gene: Hiraya_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Hiraya_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Huphlebuff_50 Start: 20694, Stop: 26243, Start Num: 1

Candidate Starts for Huphlebuff_50:

(Start: 1 @20694 has 18 MA's), (Start: 2 @20736 has 2 MA's), (3, 20880), (4, 20898), (5, 20910), (7, 21063), (15, 21222), (Start: 16 @21234 has 1 MA's), (20, 21267), (30, 21348), (31, 21351), (35, 21396), (37, 21417), (39, 21444), (43, 21486), (48, 21528), (57, 21588), (63, 21612), (70, 21648), (71, 21651), (89, 21732), (91, 21780), (96, 21810), (114, 21990), (115, 21993), (122, 22041), (130, 22116), (137, 22164), (143, 22260), (146, 22278), (148, 22296), (152, 22308), (157, 22356), (161, 22380), (162, 22392), (164, 22413), (173, 22512), (181, 22560), (185, 22593), (190, 22635), (195, 22704), (201, 22773), (204, 22782), (205, 22785), (214, 22905), (216, 22917), (221, 22947), (230, 22992), (232, 23013), (240, 23049), (250, 23076), (257, 23103), (258, 23106), (260, 23115), (274, 23172), (313, 23301), (336, 23415), (344, 23436), (353, 23478), (366, 23538), (402, 23733), (407, 23748), (409, 23757), (413, 23781), (416, 23793), (418, 23796), (421, 23811), (429, 23844), (446, 23922), (463, 24009), (469, 24045), (477, 24093), (479, 24120), (501, 24234), (504, 24267), (518, 24312), (537, 24363), (557, 24411), (560, 24420), (566, 24441), (591, 24522), (599, 24564), (617, 24642), (618, 24645), (634, 24711), (642, 24762), (663, 24831), (692, 24987), (698, 25026), (719, 25128), (723, 25140), (762, 25293), (764, 25296), (785, 25407), (790, 25425), (794, 25455), (805, 25497), (811, 25536), (820, 25587), (859, 25797), (870, 25875), (885, 25953), (890, 26031), (915, 26181), (917, 26187),

Gene: IPHane7_26 Start: 14636, Stop: 21457, Start Num: 17

Candidate Starts for IPHane7_26:

(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: Ibrahim_17 Start: 11932, Stop: 16017, Start Num: 77

Candidate Starts for Ibrahim_17:

(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: Itos_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Itos_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899),

(319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Izel_27 Start: 14635, Stop: 21456, Start Num: 17

Candidate Starts for Izel_27:

(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: Jobypre_17 Start: 10975, Stop: 16401, Start Num: 17

Candidate Starts for Jobypre_17:

(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: JoeDirt_16 Start: 10837, Stop: 15768, Start Num: 17

Candidate Starts for JoeDirt_16:

(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (62, 11182), (65, 11203), (66, 11206), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959),

(178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (541, 13957), (592, 14062), (596, 14080), (615, 14149), (616, 14158), (619, 14164), (626, 14200), (630, 14218), (637, 14248), (664, 14359), (675, 14419), (679, 14434), (686, 14476), (688, 14479), (713, 14599), (745, 14725), (746, 14728), (757, 14761), (765, 14797), (770, 14830), (771, 14833), (775, 14848), (778, 14860), (786, 14899), (809, 14986), (826, 15109), (836, 15142), (839, 15157), (844, 15163), (867, 15190), (875, 15232), (907, 15484), (923, 15562), (925, 15568), (931, 15616), (932, 15619), (937, 15661), (939, 15664), (947, 15760),

Gene: JoieB_49 Start: 20913, Stop: 26435, Start Num: 1

Candidate Starts for JoieB_49:

(Start: 1 @20913 has 18 MA's), (Start: 2 @20955 has 2 MA's), (3, 21099), (4, 21117), (5, 21129), (7, 21282), (15, 21441), (Start: 16 @21453 has 1 MA's), (20, 21486), (30, 21567), (31, 21570), (35, 21615), (37, 21636), (39, 21663), (43, 21705), (48, 21747), (57, 21807), (63, 21831), (70, 21867), (71, 21870), (89, 21951), (91, 21999), (96, 22029), (105, 22125), (114, 22209), (115, 22212), (122, 22260), (130, 22335), (137, 22383), (143, 22479), (146, 22497), (148, 22515), (152, 22527), (157, 22575), (161, 22599), (162, 22611), (164, 22632), (173, 22731), (181, 22779), (185, 22812), (190, 22854), (195, 22923), (201, 22992), (204, 23001), (205, 23004), (214, 23124), (216, 23136), (221, 23166), (230, 23211), (232, 23232), (240, 23268), (250, 23295), (257, 23322), (258, 23325), (260, 23334), (274, 23391), (336, 23634), (344, 23655), (353, 23697), (366, 23757), (402, 23952), (407, 23967), (409, 23976), (413, 24000), (416, 24012), (418, 24015), (421, 24030), (429, 24063), (446, 24141), (447, 24162), (463, 24228), (469, 24264), (477, 24312), (479, 24339), (501, 24453), (504, 24486), (518, 24531), (537, 24582), (560, 24639), (566, 24660), (591, 24741), (599, 24783), (617, 24861), (618, 24864), (634, 24930), (642, 24981), (673, 25113), (692, 25209), (698, 25248), (719, 25350), (723, 25362), (762, 25515), (764, 25518), (785, 25629), (790, 25647), (805, 25719), (816, 25785), (837, 25881), (844, 25908), (859, 25989), (870, 26067), (885, 26145), (890, 26223), (915, 26373), (917, 26379),

Gene: Jubie_17 Start: 10976, Stop: 16402, Start Num: 17

Candidate Starts for Jubie_17:

(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (32, 11096), (33, 11123), (34, 11126), (45, 11225), (58, 11321), (62, 11336), (66, 11360), (73, 11384), (74, 11387), (78, 11399), (97, 11534), (102, 11597), (108, 11642), (109, 11645), (125, 11789), (133, 11852), (139, 11894), (140, 11915), (153, 11999), (160, 12065), (182, 12254), (188, 12299), (189, 12302), (199, 12425), (200, 12434), (208, 12542), (209, 12551), (224, 12659), (225, 12662), (230, 12692), (231, 12710), (233, 12716), (237, 12737), (242, 12755), (255, 12806), (269, 12866), (271, 12884), (279, 12908), (299, 13001), (305, 13025), (312, 13046), (316, 13061), (321, 13082), (329, 13127), (333, 13142), (352, 13217), (376, 13355), (387, 13400), (420, 13526), (423, 13541), (430, 13565), (432, 13571), (434, 13577), (443, 13625), (473, 13781), (477, 13808), (479, 13835), (488, 13883), (494, 13916), (495, 13919), (502, 13949), (503, 13976), (535, 14114), (537, 14117), (542, 14153), (585, 14330), (593, 14348), (595, 14357), (603, 14399), (610, 14429), (621, 14465), (624, 14477), (626, 14504), (629, 14522), (661, 14681), (671, 14738), (677, 14774), (680, 14783), (684, 14819), (699, 14897), (701, 14918), (717, 15002), (721, 15029), (730, 15071), (731, 15077), (733, 15086), (740, 15131), (743, 15140), (752, 15185), (754, 15197), (793, 15422), (797, 15434), (813, 15506), (826, 15608), (841, 15668), (847, 15698), (850, 15704), (853, 15719), (858, 15773), (889, 16001), (895, 16034), (899, 16052), (903, 16070), (904, 16085), (913, 16145), (923, 16190), (931, 16250), (937, 16295), (939, 16298), (947, 16394),

Gene: Kahlid_16 Start: 10855, Stop: 15990, Start Num: 17

Candidate Starts for Kahlid_16:

(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (330, 12976), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: Kingsolomon_17 Start: 10975, Stop: 16401, Start Num: 17

Candidate Starts for Kingsolomon_17:

(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: KirDoubleO7_15 Start: 10990, Stop: 16410, Start Num: 17

Candidate Starts for KirDoubleO7_15:

(Start: 17 @10990 has 104 MA's), (21, 11020), (23, 11029), (32, 11110), (33, 11137), (34, 11140), (45, 11239), (58, 11335), (66, 11374), (73, 11398), (74, 11401), (78, 11413), (97, 11548), (102, 11611), (108, 11656), (109, 11659), (125, 11803), (131, 11848), (139, 11908), (140, 11929), (153, 12013), (157, 12058), (160, 12079), (184, 12292), (188, 12313), (189, 12316), (199, 12439), (200, 12448), (208, 12556), (209, 12565), (224, 12673), (225, 12676), (231, 12724), (233, 12730), (237, 12751), (242, 12769), (255, 12820), (269, 12880), (279, 12922), (299, 13015), (305, 13039), (312, 13060), (316, 13075), (321, 13096), (329, 13141), (333, 13156), (352, 13231), (376, 13369), (387, 13414), (420, 13540), (423, 13555), (430, 13579), (443, 13639), (473, 13795), (477, 13822), (479, 13849), (488, 13897), (494, 13930), (503, 13990), (535, 14128), (537, 14131), (542, 14173), (585, 14347), (593, 14365), (595, 14374), (610, 14446), (624, 14494), (626, 14521), (629, 14539), (661, 14698), (671, 14755), (677, 14791), (680, 14800), (684, 14836), (699, 14914), (701, 14935), (721, 15046),

(730, 15088), (731, 15094), (733, 15103), (740, 15148), (743, 15157), (752, 15202), (754, 15214), (793, 15439), (797, 15451), (813, 15523), (826, 15625), (839, 15673), (841, 15685), (847, 15715), (850, 15721), (853, 15736), (858, 15790), (895, 16042), (899, 16060), (903, 16078), (904, 16093), (913, 16153), (923, 16198), (925, 16204), (931, 16258), (932, 16261), (937, 16303), (939, 16306), (947, 16402),

Gene: KleverKiS_26 Start: 14619, Stop: 21440, Start Num: 17

Candidate Starts for KleverKiS_26:

(Start: 17 @14619 has 104 MA's), (19, 14634), (28, 14709), (32, 14730), (36, 14769), (41, 14817), (51, 14919), (86, 15075), (100, 15219), (108, 15282), (110, 15291), (119, 15372), (122, 15396), (124, 15420), (128, 15453), (130, 15471), (131, 15474), (141, 15555), (143, 15588), (163, 15729), (175, 15855), (198, 16056), (200, 16074), (211, 16221), (214, 16251), (234, 16374), (294, 16629), (295, 16632), (301, 16665), (303, 16668), (307, 16686), (309, 16695), (314, 16710), (318, 16725), (320, 16734), (326, 16761), (337, 16839), (358, 16920), (373, 17040), (400, 17181), (409, 17214), (431, 17313), (442, 17379), (450, 17454), (464, 17526), (490, 17703), (498, 17745), (510, 17832), (512, 17835), (520, 17886), (547, 17991), (552, 18009), (556, 18021), (572, 18093), (577, 18114), (598, 18231), (605, 18267), (613, 18312), (633, 18417), (647, 18495), (651, 18510), (706, 18822), (727, 18918), (736, 18966), (742, 19002), (748, 19035), (760, 19080), (762, 19098), (779, 19185), (782, 19206), (784, 19233), (817, 19455), (832, 19554), (835, 19563), (838, 19584), (849, 19638), (851, 19650), (874, 19818), (884, 19863), (917, 20121), (935, 20265), (936, 20274), (972, 20802), (978, 20919), (984, 20988), (986, 21006), (996, 21120), (998, 21150), (1007, 21234), (1011, 21282), (1016, 21327), (1024, 21414),

Gene: Kropertea_16 Start: 10531, Stop: 15624, Start Num: 17

Candidate Starts for Kropertea_16:

(Start: 17 @10531 has 104 MA's), (21, 10561), (23, 10570), (33, 10678), (38, 10708), (47, 10810), (51, 10834), (61, 10888), (62, 10891), (66, 10915), (69, 10921), (73, 10939), (78, 10954), (82, 10975), (85, 10987), (102, 11152), (108, 11197), (136, 11428), (137, 11434), (140, 11470), (144, 11512), (153, 11554), (156, 11590), (157, 11599), (159, 11614), (162, 11635), (167, 11680), (188, 11854), (199, 11980), (205, 12037), (210, 12112), (217, 12181), (223, 12211), (225, 12217), (233, 12271), (237, 12292), (249, 12340), (254, 12358), (272, 12439), (278, 12460), (279, 12463), (283, 12481), (288, 12496), (299, 12556), (305, 12580), (316, 12616), (328, 12685), (335, 12712), (339, 12730), (342, 12739), (349, 12772), (356, 12796), (357, 12799), (363, 12823), (367, 12859), (391, 13009), (411, 13078), (422, 13135), (441, 13213), (449, 13279), (456, 13300), (468, 13354), (470, 13366), (473, 13378), (477, 13405), (485, 13471), (486, 13474), (488, 13483), (495, 13519), (501, 13549), (508, 13591), (509, 13594), (511, 13600), (522, 13627), (543, 13681), (582, 13747), (586, 13771), (623, 13903), (630, 13954), (638, 13993), (665, 14068), (667, 14092), (670, 14107), (676, 14128), (678, 14137), (682, 14170), (703, 14269), (708, 14281), (733, 14383), (736, 14395), (750, 14458), (751, 14461), (770, 14554), (780, 14593), (781, 14599), (822, 14803), (836, 14884), (841, 14911), (842, 14914), (855, 14959), (876, 15091), (879, 15097), (889, 15214), (895, 15247), (899, 15265), (903, 15283), (904, 15298), (916, 15379), (919, 15394), (923, 15412), (925, 15418), (931, 15472), (932, 15475), (937, 15517),

Gene: Krypton555_17 Start: 10964, Stop: 16339, Start Num: 17

Candidate Starts for Krypton555_17:

(Start: 17 @10964 has 104 MA's), (21, 10994), (23, 11003), (32, 11084), (33, 11111), (34, 11114), (45, 11213), (58, 11309), (62, 11324), (66, 11348), (73, 11372), (74, 11375), (78, 11387), (97, 11522), (102, 11585), (108, 11630), (109, 11633), (125, 11777), (139, 11882), (140, 11903), (153, 11987), (160, 12053), (188, 12287), (189, 12290), (199, 12413), (200, 12422), (208, 12530), (209, 12539), (224, 12647), (225, 12650), (230, 12680), (231, 12698), (233, 12704), (237, 12725), (242, 12743), (255, 12794), (269, 12854), (279, 12896), (299, 12989), (305, 13013), (312, 13034), (316, 13049), (321, 13070), (329, 13115), (333, 13130), (352, 13205), (376, 13343), (387, 13388), (420, 13514), (430, 13553), (434, 13565), (443, 13613), (474, 13781), (477, 13796), (479, 13823), (488, 13871), (494,

13904), (495, 13907), (502, 13937), (503, 13964), (542, 14147), (553, 14165), (585, 14324), (593, 14342), (595, 14351), (624, 14423), (626, 14450), (629, 14468), (661, 14627), (671, 14684), (675, 14711), (677, 14720), (680, 14729), (684, 14765), (699, 14843), (701, 14864), (721, 14975), (730, 15017), (731, 15023), (733, 15032), (740, 15077), (743, 15086), (752, 15131), (754, 15143), (793, 15368), (797, 15380), (813, 15452), (826, 15554), (841, 15614), (847, 15644), (850, 15650), (853, 15665), (858, 15719), (889, 15938), (895, 15971), (899, 15989), (903, 16007), (904, 16022), (913, 16082), (923, 16127), (931, 16187), (937, 16232), (939, 16235), (947, 16331),

Gene: Kumao_26 Start: 14486, Stop: 20476, Start Num: 16

Candidate Starts for Kumao_26:

(Start: 16 @14486 has 1 MA's), (36, 14636), (87, 14927), (103, 15089), (124, 15266), (131, 15320), (140, 15410), (143, 15443), (149, 15482), (153, 15494), (155, 15518), (158, 15551), (166, 15617), (168, 15620), (174, 15698), (178, 15731), (179, 15734), (180, 15740), (182, 15749), (188, 15794), (190, 15818), (196, 15899), (197, 15902), (208, 16043), (217, 16127), (224, 16160), (237, 16247), (241, 16262), (269, 16379), (292, 16463), (299, 16490), (306, 16517), (311, 16526), (315, 16538), (340, 16640), (346, 16658), (347, 16667), (360, 16700), (371, 16769), (372, 16772), (377, 16799), (381, 16829), (382, 16832), (390, 16856), (404, 16907), (408, 16922), (443, 17018), (450, 17060), (484, 17225), (514, 17399), (517, 17408), (519, 17411), (521, 17414), (529, 17444), (551, 17525), (564, 17567), (570, 17600), (571, 17603), (573, 17606), (589, 17702), (606, 17762), (614, 17798), (622, 17822), (627, 17843), (684, 18095), (702, 18194), (704, 18203), (709, 18227), (712, 18239), (716, 18251), (732, 18311), (737, 18332), (742, 18362), (753, 18413), (769, 18494), (788, 18587), (806, 18668), (810, 18689), (845, 18878), (846, 18887), (865, 19019), (871, 19049), (880, 19091), (882, 19100), (887, 19148), (891, 19187), (893, 19202), (894, 19205), (909, 19277), (911, 19283), (927, 19358), (928, 19361), (944, 19496), (946, 19505), (950, 19577), (952, 19613), (957, 19655), (960, 19697), (962, 19721), (964, 19784), (976, 19946), (987, 20066), (991, 20117), (994, 20153), (1000, 20219), (1001, 20234), (1006, 20270), (1008, 20282), (1010, 20315), (1013, 20351), (1015, 20357), (1021, 20429), (1024, 20447),

Gene: LeBron_16 Start: 10837, Stop: 15801, Start Num: 17

Candidate Starts for LeBron_16:

(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (62, 11182), (65, 11203), (66, 11206), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (88, 11296), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (199, 12271), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (415, 13405), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14170), (616, 14179), (619, 14185), (626, 14221), (630, 14239), (637, 14269), (664, 14380), (675, 14440), (679, 14455), (686, 14497), (688, 14500), (713, 14620), (745, 14746), (746, 14749), (757, 14782), (765, 14818), (771, 14854), (775, 14869), (778, 14881), (809, 15007), (826, 15130), (836, 15163), (867, 15223), (875, 15265), (907, 15517), (923, 15595), (925, 15601), (931, 15649), (932, 15652), (937, 15694), (939, 15697), (947, 15793),

Gene: Lewan_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Lewan_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (66, 11204), (72, 11225), (73,

11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (330, 12977), (342, 13025), (378, 13238), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: LilDestine_16 Start: 10855, Stop: 15984, Start Num: 17

Candidate Starts for LilDestine_16:

(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13966), (582, 14053), (583, 14056), (586, 14071), (597, 14107), (623, 14203), (630, 14254), (638, 14293), (647, 14329), (650, 14338), (656, 14371), (665, 14398), (667, 14422), (668, 14428), (674, 14449), (676, 14458), (678, 14467), (682, 14500), (683, 14503), (720, 14668), (728, 14692), (733, 14722), (736, 14734), (739, 14752), (750, 14797), (751, 14800), (770, 14893), (822, 15142), (826, 15190), (841, 15250), (846, 15277), (848, 15283), (852, 15292), (855, 15301), (875, 15451), (883, 15484), (889, 15583), (895, 15616), (897, 15625), (901, 15646), (923, 15778), (925, 15784), (931, 15832), (934, 15862), (937, 15877), (947, 15976),

Gene: Lilbit_47 Start: 20890, Stop: 26439, Start Num: 1

Candidate Starts for Lilbit_47:

(Start: 1 @20890 has 18 MA's), (Start: 2 @20932 has 2 MA's), (3, 21076), (4, 21094), (5, 21106), (7, 21259), (15, 21418), (Start: 16 @21430 has 1 MA's), (20, 21463), (30, 21544), (31, 21547), (35, 21592), (37, 21613), (39, 21640), (43, 21682), (48, 21724), (57, 21784), (63, 21808), (70, 21844), (71, 21847), (89, 21928), (91, 21976), (96, 22006), (114, 22186), (115, 22189), (122, 22237), (130, 22312), (137, 22360), (143, 22456), (146, 22474), (148, 22492), (152, 22504), (157, 22552), (161, 22576), (162, 22588), (164, 22609), (173, 22708), (181, 22756), (185, 22789), (190, 22831), (195, 22900), (201, 22969), (204, 22978), (205, 22981), (214, 23101), (216, 23113), (221, 23143), (230, 23188), (232, 23209), (240, 23245), (250, 23272), (257, 23299), (258, 23302), (260, 23311), (274, 23368), (313, 23497), (336, 23611), (344, 23632), (353, 23674), (366, 23734), (402, 23929), (407, 23944), (409, 23953), (413, 23977), (416, 23989), (418, 23992), (421, 24007), (429, 24040), (446, 24118), (463, 24205), (469, 24241), (477, 24289), (479, 24316), (501, 24430), (504, 24463), (518, 24508), (537, 24559), (557, 24607), (560, 24616), (566, 24637), (591, 24718), (599, 24760), (617, 24838), (618, 24841), (634, 24907), (642, 24958), (663, 25027), (692, 25183), (698, 25222), (719, 25324), (723, 25336), (762, 25489), (764, 25492), (785, 25603), (790, 25621), (794, 25651), (805, 25693), (811, 25732), (820, 25783), (859, 25993), (870, 26071), (885, 26149), (890, 26227), (915, 26377),

(917, 26383),

Gene: LilhomieP_25 Start: 14636, Stop: 21457, Start Num: 17

Candidate Starts for LilhomieP_25:

(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: LittleLaf_48 Start: 20661, Stop: 26168, Start Num: 2

Candidate Starts for LittleLaf_48:

(Start: 1 @20619 has 18 MA's), (Start: 2 @20661 has 2 MA's), (3, 20805), (4, 20823), (5, 20835), (7, 20988), (15, 21147), (Start: 16 @21159 has 1 MA's), (20, 21192), (30, 21273), (31, 21276), (35, 21321), (37, 21342), (39, 21369), (43, 21411), (48, 21453), (57, 21513), (63, 21537), (70, 21573), (71, 21576), (89, 21657), (91, 21705), (96, 21735), (114, 21915), (115, 21918), (122, 21966), (130, 22041), (137, 22089), (143, 22185), (146, 22203), (148, 22221), (152, 22233), (157, 22281), (161, 22305), (162, 22317), (164, 22338), (173, 22437), (181, 22485), (185, 22518), (190, 22560), (195, 22629), (201, 22698), (204, 22707), (205, 22710), (214, 22830), (216, 22842), (221, 22872), (230, 22917), (232, 22938), (240, 22974), (250, 23001), (257, 23028), (258, 23031), (260, 23040), (274, 23097), (313, 23226), (336, 23340), (344, 23361), (353, 23403), (366, 23463), (402, 23658), (407, 23673), (409, 23682), (413, 23706), (416, 23718), (418, 23721), (421, 23736), (429, 23769), (446, 23847), (463, 23934), (469, 23970), (477, 24018), (479, 24045), (501, 24159), (504, 24192), (518, 24237), (537, 24288), (557, 24336), (560, 24345), (566, 24366), (591, 24447), (599, 24489), (617, 24567), (618, 24570), (634, 24636), (642, 24687), (663, 24756), (692, 24912), (698, 24951), (719, 25053), (723, 25065), (762, 25218), (764, 25221), (785, 25332), (790, 25350), (794, 25380), (805, 25422), (811, 25461), (820, 25512), (859, 25722), (870, 25800), (885, 25878), (890, 25956), (915, 26106), (917, 26112),

Gene: LiyuLake_17 Start: 10981, Stop: 16401, Start Num: 17

Candidate Starts for LiyuLake_17:

(Start: 17 @10981 has 104 MA's), (21, 11011), (23, 11020), (32, 11101), (33, 11128), (34, 11131), (45, 11230), (58, 11326), (66, 11365), (73, 11389), (74, 11392), (78, 11404), (97, 11539), (102, 11602), (108, 11647), (109, 11650), (125, 11794), (131, 11839), (139, 11899), (140, 11920), (153, 12004), (157, 12049), (160, 12070), (184, 12283), (188, 12304), (189, 12307), (199, 12430), (200, 12439), (208, 12547), (209, 12556), (224, 12664), (225, 12667), (231, 12715), (233, 12721), (237, 12742), (242, 12760), (255, 12811), (269, 12871), (279, 12913), (299, 13006), (305, 13030), (312, 13051), (316, 13066), (321, 13087), (329, 13132), (333, 13147), (352, 13222), (376, 13360), (387, 13405), (420, 13531), (423, 13546), (430, 13570), (443, 13630), (473, 13786), (477, 13813), (479, 13840), (488, 13888), (494, 13921), (503, 13981), (535, 14119), (537, 14122), (542, 14164), (585, 14338), (593, 14356), (595, 14365), (610, 14437), (624, 14485), (626, 14512), (629, 14530), (661, 14689), (671, 14746), (677, 14782), (680, 14791), (684, 14827), (699, 14905), (701, 14926), (721, 15037), (730, 15079), (731, 15085), (733, 15094), (740, 15139), (743, 15148), (752, 15193), (754, 15205), (793, 15430), (797, 15442), (813, 15514), (826, 15616), (839, 15664), (841, 15676), (847, 15706),

(850, 15712), (853, 15727), (858, 15781), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (925, 16195), (931, 16249), (932, 16252), (937, 16294), (939, 16297), (947, 16393),

Gene: Loadrie_16 Start: 10888, Stop: 16017, Start Num: 17

Candidate Starts for Loadrie_16:

(Start: 17 @10888 has 104 MA's), (21, 10918), (Start: 22 @10924 has 1 MA's), (23, 10927), (29, 10990), (33, 11035), (34, 11038), (51, 11155), (56, 11182), (60, 11206), (62, 11212), (66, 11236), (72, 11257), (73, 11260), (74, 11263), (97, 11410), (102, 11473), (108, 11518), (109, 11521), (111, 11539), (114, 11581), (130, 11707), (135, 11734), (139, 11770), (140, 11791), (147, 11857), (153, 11875), (157, 11920), (162, 11956), (173, 12076), (176, 12100), (188, 12175), (189, 12178), (190, 12199), (191, 12202), (192, 12226), (195, 12268), (199, 12301), (213, 12472), (217, 12502), (223, 12532), (241, 12628), (243, 12637), (249, 12661), (252, 12670), (257, 12691), (273, 12757), (281, 12787), (283, 12796), (288, 12811), (291, 12823), (299, 12871), (305, 12895), (316, 12931), (330, 13009), (342, 13057), (394, 13333), (419, 13420), (422, 13441), (448, 13582), (451, 13594), (471, 13687), (475, 13717), (477, 13723), (488, 13804), (495, 13840), (537, 13999), (582, 14086), (583, 14089), (586, 14104), (597, 14140), (623, 14236), (630, 14287), (638, 14326), (647, 14362), (650, 14371), (656, 14404), (665, 14431), (667, 14455), (668, 14461), (670, 14470), (674, 14482), (676, 14491), (678, 14500), (682, 14533), (683, 14536), (720, 14701), (728, 14725), (733, 14755), (736, 14767), (739, 14785), (750, 14830), (751, 14833), (770, 14926), (822, 15175), (826, 15223), (841, 15283), (846, 15310), (848, 15316), (852, 15325), (855, 15334), (875, 15484), (883, 15517), (889, 15616), (895, 15649), (897, 15658), (901, 15679), (923, 15811), (925, 15817), (931, 15865), (934, 15895), (937, 15910), (947, 16009),

Gene: Lolly9_17 Start: 10976, Stop: 16219, Start Num: 17

Candidate Starts for Lolly9_17:

(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (32, 11096), (33, 11123), (34, 11126), (45, 11225), (58, 11321), (73, 11384), (74, 11387), (78, 11399), (97, 11534), (102, 11597), (108, 11642), (109, 11645), (125, 11789), (131, 11834), (140, 11915), (153, 11999), (160, 12065), (184, 12278), (188, 12299), (189, 12302), (199, 12425), (200, 12434), (224, 12659), (225, 12662), (233, 12716), (237, 12737), (279, 12908), (282, 12923), (299, 13001), (312, 13046), (316, 13061), (329, 13127), (342, 13172), (376, 13355), (387, 13400), (420, 13529), (422, 13541), (434, 13580), (443, 13628), (465, 13754), (473, 13784), (477, 13811), (492, 13913), (502, 13961), (526, 14081), (527, 14087), (566, 14228), (569, 14246), (602, 14396), (648, 14576), (653, 14585), (659, 14618), (674, 14693), (676, 14702), (678, 14711), (708, 14873), (717, 14903), (724, 14927), (726, 14933), (733, 14969), (736, 14981), (739, 14999), (749, 15041), (751, 15047), (758, 15068), (770, 15140), (814, 15353), (825, 15401), (826, 15434), (828, 15437), (841, 15494), (847, 15524), (850, 15530), (853, 15545), (858, 15599), (866, 15650), (895, 15851), (899, 15869), (904, 15902), (913, 15962), (923, 16007), (925, 16013), (937, 16112), (947, 16211),

Gene: Lumos_17 Start: 10975, Stop: 16398, Start Num: 17

Candidate Starts for Lumos_17:

(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661,

14677), (671, 14734), (677, 14770), (680, 14779), (684, 14815), (699, 14893), (701, 14914), (717, 14998), (721, 15025), (730, 15067), (731, 15073), (733, 15082), (740, 15127), (743, 15136), (752, 15181), (754, 15193), (793, 15418), (797, 15430), (813, 15502), (826, 15604), (841, 15664), (847, 15694), (850, 15700), (853, 15715), (858, 15769), (889, 15997), (895, 16030), (899, 16048), (903, 16066), (904, 16081), (913, 16141), (923, 16186), (931, 16246), (937, 16291), (939, 16294), (947, 16390),

Gene: Lynnae_16 Start: 10856, Stop: 15973, Start Num: 17

Candidate Starts for Lynnae_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13973), (582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300), (647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456), (676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (728, 14699), (733, 14729), (736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197), (841, 15257), (846, 15284), (855, 15290), (875, 15440), (883, 15473), (889, 15572), (895, 15605), (897, 15614), (901, 15635), (923, 15767), (925, 15773), (931, 15821), (934, 15851), (937, 15866), (947, 15965),

Gene: MAckerman_16 Start: 10836, Stop: 15776, Start Num: 17

Candidate Starts for MAckerman_16:

(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Marvin_46 Start: 20889, Stop: 26438, Start Num: 1

Candidate Starts for Marvin_46:

(Start: 1 @20889 has 18 MA's), (Start: 2 @20931 has 2 MA's), (3, 21075), (4, 21093), (5, 21105), (7, 21258), (15, 21417), (Start: 16 @21429 has 1 MA's), (20, 21462), (30, 21543), (31, 21546), (35, 21591), (37, 21612), (39, 21639), (43, 21681), (48, 21723), (57, 21783), (63, 21807), (70, 21843), (71, 21846), (89, 21927), (91, 21975), (96, 22005), (114, 22185), (115, 22188), (122, 22236), (130, 22311),

(137, 22359), (143, 22455), (146, 22473), (148, 22491), (152, 22503), (157, 22551), (161, 22575), (162, 22587), (164, 22608), (173, 22707), (181, 22755), (185, 22788), (190, 22830), (195, 22899), (201, 22968), (204, 22977), (205, 22980), (214, 23100), (216, 23112), (221, 23142), (230, 23187), (232, 23208), (240, 23244), (250, 23271), (257, 23298), (258, 23301), (260, 23310), (274, 23367), (313, 23496), (336, 23610), (344, 23631), (353, 23673), (366, 23733), (402, 23928), (407, 23943), (409, 23952), (413, 23976), (416, 23988), (418, 23991), (421, 24006), (429, 24039), (446, 24117), (463, 24204), (469, 24240), (477, 24288), (479, 24315), (501, 24429), (504, 24462), (518, 24507), (537, 24558), (557, 24606), (560, 24615), (566, 24636), (591, 24717), (599, 24759), (617, 24837), (618, 24840), (634, 24906), (642, 24957), (663, 25026), (692, 25182), (698, 25221), (719, 25323), (723, 25335), (762, 25488), (764, 25491), (785, 25602), (790, 25620), (794, 25650), (805, 25692), (811, 25731), (820, 25782), (859, 25992), (870, 26070), (885, 26148), (890, 26226), (915, 26376), (917, 26382),

Gene: MaryV_38 Start: 17698, Stop: 23649, Start Num: 17

Candidate Starts for MaryV_38:

(14, 17674), (Start: 17 @17698 has 104 MA's), (26, 17767), (27, 17779), (51, 17980), (55, 17998), (67, 18064), (81, 18127), (85, 18142), (86, 18145), (90, 18214), (102, 18319), (104, 18331), (106, 18346), (108, 18364), (116, 18442), (117, 18448), (121, 18469), (125, 18511), (131, 18556), (132, 18565), (133, 18574), (136, 18595), (138, 18616), (142, 18661), (144, 18694), (147, 18718), (150, 18727), (154, 18748), (163, 18826), (171, 18898), (172, 18907), (174, 18940), (186, 19021), (187, 19024), (200, 19165), (202, 19210), (208, 19279), (214, 19342), (220, 19375), (224, 19396), (228, 19426), (230, 19438), (231, 19456), (232, 19459), (237, 19483), (245, 19516), (262, 19576), (264, 19582), (266, 19594), (268, 19606), (275, 19636), (293, 19690), (299, 19711), (307, 19741), (313, 19753), (322, 19777), (324, 19783), (334, 19837), (337, 19849), (348, 19891), (351, 19906), (359, 19924), (364, 19942), (370, 19996), (372, 20005), (398, 20122), (399, 20125), (406, 20149), (454, 20314), (455, 20317), (460, 20329), (481, 20470), (494, 20539), (517, 20665), (531, 20707), (544, 20761), (546, 20764), (550, 20779), (562, 20815), (573, 20869), (579, 20899), (580, 20914), (584, 20947), (604, 21019), (608, 21043), (620, 21082), (628, 21118), (644, 21193), (708, 21493), (729, 21586), (735, 21613), (759, 21721), (761, 21742), (766, 21760), (773, 21799), (801, 21928), (803, 21940), (805, 21943), (819, 22030), (823, 22039), (831, 22084), (840, 22126), (845, 22150), (849, 22168), (854, 22183), (868, 22294), (870, 22306), (878, 22330), (893, 22423), (894, 22426), (899, 22441), (905, 22477), (906, 22486), (909, 22498), (928, 22582), (929, 22588), (930, 22591), (933, 22618), (940, 22654), (942, 22675), (943, 22678), (944, 22711), (949, 22744), (950, 22768), (951, 22789), (952, 22804), (954, 22819), (955, 22828), (961, 22894), (968, 23017), (974, 23062), (975, 23083), (977, 23128), (982, 23158), (988, 23269), (999, 23383), (1003, 23434), (1005, 23443), (1009, 23488), (1015, 23530), (1017, 23536), (1019, 23548), (1022, 23602), (1023, 23605),

Gene: Mendokysei_16 Start: 11901, Stop: 15827, Start Num: 76

Candidate Starts for Mendokysei_16:

(Start: 76 @11901 has 1 MA's), (98, 12051), (112, 12192), (126, 12291), (148, 12498), (157, 12552), (162, 12588), (180, 12753), (183, 12777), (265, 13299), (331, 13494), (379, 13686), (425, 13788), (438, 13839), (459, 13911), (474, 13992), (497, 14109), (509, 14175), (532, 14232), (685, 14631), (705, 14748), (747, 14901), (756, 14928), (763, 14958), (783, 15045), (832, 15273), (861, 15429), (870, 15483), (900, 15678), (908, 15732),

Gene: Miley16_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Miley16_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470),

(223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: MiniLon_17 Start: 10976, Stop: 16219, Start Num: 17

Candidate Starts for MiniLon_17:

(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (32, 11096), (33, 11123), (34, 11126), (45, 11225), (58, 11321), (73, 11384), (74, 11387), (78, 11399), (97, 11534), (102, 11597), (108, 11642), (109, 11645), (125, 11789), (131, 11834), (140, 11915), (153, 11999), (160, 12065), (184, 12278), (188, 12299), (189, 12302), (199, 12425), (200, 12434), (224, 12659), (225, 12662), (233, 12716), (237, 12737), (279, 12908), (282, 12923), (299, 13001), (312, 13046), (316, 13061), (329, 13127), (342, 13172), (376, 13355), (387, 13400), (420, 13529), (422, 13541), (434, 13580), (443, 13628), (465, 13754), (473, 13784), (477, 13811), (492, 13913), (502, 13961), (526, 14081), (527, 14087), (566, 14228), (569, 14246), (602, 14396), (648, 14576), (653, 14585), (659, 14618), (674, 14693), (676, 14702), (678, 14711), (708, 14873), (717, 14903), (724, 14927), (726, 14933), (733, 14969), (736, 14981), (739, 14999), (749, 15041), (751, 15047), (758, 15068), (770, 15140), (814, 15353), (825, 15401), (826, 15434), (828, 15437), (841, 15494), (847, 15524), (850, 15530), (853, 15545), (858, 15599), (866, 15650), (895, 15851), (899, 15869), (904, 15902), (913, 15962), (923, 16007), (925, 16013), (937, 16112), (947, 16211),

Gene: MiniMac_17 Start: 10977, Stop: 16220, Start Num: 17

Candidate Starts for MiniMac_17:

(Start: 17 @10977 has 104 MA's), (21, 11007), (23, 11016), (32, 11097), (33, 11124), (34, 11127), (45, 11226), (58, 11322), (73, 11385), (74, 11388), (78, 11400), (97, 11535), (102, 11598), (108, 11643), (109, 11646), (125, 11790), (131, 11835), (140, 11916), (153, 12000), (160, 12066), (184, 12279), (188, 12300), (189, 12303), (199, 12426), (200, 12435), (224, 12660), (225, 12663), (233, 12717), (237, 12738), (279, 12909), (282, 12924), (299, 13002), (312, 13047), (316, 13062), (329, 13128), (342, 13173), (376, 13356), (387, 13401), (420, 13530), (422, 13542), (434, 13581), (443, 13629), (465, 13755), (473, 13785), (477, 13812), (492, 13914), (502, 13962), (526, 14082), (527, 14088), (566, 14229), (569, 14247), (602, 14397), (648, 14577), (653, 14586), (659, 14619), (674, 14694), (676, 14703), (678, 14712), (708, 14874), (717, 14904), (724, 14928), (726, 14934), (733, 14970), (736, 14982), (739, 15000), (749, 15042), (751, 15048), (758, 15069), (770, 15141), (814, 15354), (825, 15402), (826, 15435), (828, 15438), (841, 15495), (847, 15525), (850, 15531), (853, 15546), (858, 15600), (866, 15651), (895, 15852), (899, 15870), (904, 15903), (913, 15963), (923, 16008), (925, 16014), (931, 16068), (937, 16113), (947, 16212),

Gene: MkaliMitinis3_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for MkaliMitinis3_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (330, 12977),

(342, 13025), (378, 13238), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Molivier_16 Start: 10862, Stop: 15991, Start Num: 17

Candidate Starts for Molivier_16:

(Start: 17 @10862 has 104 MA's), (21, 10892), (Start: 22 @10898 has 1 MA's), (23, 10901), (29, 10964), (33, 11009), (34, 11012), (51, 11129), (56, 11156), (60, 11180), (62, 11186), (66, 11210), (72, 11231), (73, 11234), (74, 11237), (97, 11384), (102, 11447), (108, 11492), (109, 11495), (111, 11513), (114, 11555), (130, 11681), (135, 11708), (139, 11744), (140, 11765), (147, 11831), (153, 11849), (157, 11894), (162, 11930), (173, 12050), (176, 12074), (188, 12149), (189, 12152), (190, 12173), (191, 12176), (192, 12200), (195, 12242), (199, 12275), (213, 12446), (217, 12476), (223, 12506), (241, 12602), (243, 12611), (249, 12635), (252, 12644), (257, 12665), (273, 12731), (281, 12761), (283, 12770), (288, 12785), (291, 12797), (299, 12845), (305, 12869), (316, 12905), (330, 12983), (342, 13031), (394, 13307), (419, 13394), (422, 13415), (448, 13556), (451, 13568), (471, 13661), (475, 13691), (477, 13697), (488, 13778), (495, 13814), (503, 13874), (537, 13973), (582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300), (647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456), (676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (733, 14729), (736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197), (841, 15257), (846, 15284), (848, 15290), (852, 15299), (855, 15308), (875, 15458), (883, 15491), (889, 15590), (895, 15623), (897, 15632), (901, 15653), (923, 15785), (925, 15791), (931, 15839), (934, 15869), (937, 15884), (947, 15983),

Gene: Moostard_17 Start: 10972, Stop: 16404, Start Num: 17

Candidate Starts for Moostard_17:

(Start: 17 @10972 has 104 MA's), (21, 11002), (23, 11011), (32, 11092), (33, 11119), (34, 11122), (45, 11221), (58, 11317), (62, 11332), (66, 11356), (73, 11380), (74, 11383), (78, 11395), (97, 11530), (102, 11593), (108, 11638), (109, 11641), (125, 11785), (133, 11848), (140, 11911), (153, 11995), (160, 12061), (182, 12250), (188, 12295), (189, 12298), (199, 12421), (200, 12430), (208, 12538), (209, 12547), (224, 12655), (225, 12658), (230, 12688), (231, 12706), (233, 12712), (237, 12733), (242, 12751), (255, 12802), (269, 12862), (271, 12880), (279, 12904), (299, 12997), (305, 13021), (312, 13042), (316, 13057), (321, 13078), (329, 13123), (333, 13138), (352, 13213), (376, 13351), (387, 13396), (420, 13522), (423, 13537), (430, 13561), (432, 13567), (434, 13573), (443, 13621), (473, 13777), (477, 13804), (479, 13831), (488, 13879), (494, 13912), (495, 13915), (503, 13972), (535, 14110), (537, 14113), (585, 14332), (593, 14350), (595, 14359), (610, 14434), (624, 14482), (626, 14509), (629, 14527), (661, 14683), (671, 14740), (677, 14776), (680, 14785), (684, 14821), (699, 14899), (701, 14920), (717, 15004), (721, 15031), (730, 15073), (731, 15079), (733, 15088), (740, 15133), (743, 15142), (752, 15187), (754, 15199), (793, 15424), (813, 15508), (826, 15610), (839, 15658), (841, 15670), (847, 15700), (850, 15706), (853, 15721), (858, 15775), (889, 16003), (895, 16036), (899, 16054), (903, 16072), (904, 16087), (913, 16147), (923, 16192), (931, 16252), (937, 16297), (939, 16300), (947, 16396),

Gene: MosMoris_46 Start: 20069, Stop: 25618, Start Num: 1

Candidate Starts for MosMoris_46:

(Start: 1 @20069 has 18 MA's), (Start: 2 @20111 has 2 MA's), (3, 20255), (4, 20273), (5, 20285), (7, 20438), (15, 20597), (Start: 16 @20609 has 1 MA's), (20, 20642), (30, 20723), (31, 20726), (35,

20771), (37, 20792), (39, 20819), (43, 20861), (48, 20903), (57, 20963), (63, 20987), (70, 21023), (71, 21026), (89, 21107), (91, 21155), (96, 21185), (114, 21365), (115, 21368), (122, 21416), (130, 21491), (137, 21539), (143, 21635), (146, 21653), (148, 21671), (152, 21683), (157, 21731), (161, 21755), (162, 21767), (164, 21788), (173, 21887), (181, 21935), (185, 21968), (190, 22010), (195, 22079), (201, 22148), (204, 22157), (205, 22160), (214, 22280), (216, 22292), (221, 22322), (230, 22367), (232, 22388), (240, 22424), (250, 22451), (257, 22478), (258, 22481), (260, 22490), (274, 22547), (313, 22676), (336, 22790), (344, 22811), (353, 22853), (366, 22913), (402, 23108), (407, 23123), (409, 23132), (413, 23156), (416, 23168), (418, 23171), (421, 23186), (429, 23219), (445, 23291), (446, 23297), (463, 23384), (469, 23420), (477, 23468), (479, 23495), (501, 23609), (504, 23642), (518, 23687), (537, 23738), (557, 23786), (560, 23795), (566, 23816), (591, 23897), (599, 23939), (617, 24017), (618, 24020), (634, 24086), (642, 24137), (663, 24206), (692, 24362), (698, 24401), (719, 24503), (723, 24515), (762, 24668), (764, 24671), (785, 24782), (790, 24800), (794, 24830), (805, 24872), (811, 24911), (820, 24962), (859, 25172), (870, 25250), (885, 25328), (890, 25406), (915, 25556), (917, 25562),

Gene: MrMagoo_30 Start: 15195, Stop: 22001, Start Num: 17

Candidate Starts for MrMagoo_30:

(Start: 17 @15195 has 104 MA's), (28, 15285), (36, 15345), (40, 15387), (80, 15627), (87, 15657), (93, 15729), (100, 15795), (107, 15846), (108, 15858), (110, 15867), (120, 15954), (123, 15987), (128, 16029), (130, 16047), (161, 16278), (169, 16344), (180, 16455), (188, 16509), (197, 16617), (200, 16644), (214, 16821), (219, 16851), (223, 16872), (232, 16938), (234, 16944), (239, 16968), (245, 16995), (246, 16998), (256, 17037), (259, 17055), (295, 17214), (310, 17289), (324, 17343), (343, 17451), (388, 17739), (394, 17769), (397, 17784), (412, 17844), (433, 17940), (442, 17988), (450, 18066), (458, 18093), (460, 18105), (482, 18270), (483, 18282), (491, 18321), (496, 18348), (512, 18447), (513, 18477), (515, 18486), (540, 18591), (547, 18612), (584, 18795), (633, 19026), (635, 19029), (640, 19092), (658, 19167), (660, 19182), (710, 19467), (734, 19563), (760, 19686), (774, 19758), (777, 19770), (789, 19848), (804, 19935), (829, 20130), (830, 20142), (843, 20205), (865, 20373), (868, 20385), (882, 20457), (884, 20466), (953, 21054), (958, 21144), (963, 21237), (965, 21267), (971, 21339), (978, 21468), (983, 21549), (991, 21663), (992, 21675), (1004, 21783), (1007, 21798), (1014, 21879), (1024, 21975),

Gene: MsGreen_17 Start: 10975, Stop: 16401, Start Num: 17

Candidate Starts for MsGreen_17:

(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: Nairb_17 Start: 11932, Stop: 16017, Start Num: 77

Candidate Starts for Nairb_17:

(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: Nanosmite_30 Start: 15409, Stop: 21873, Start Num: 17

Candidate Starts for Nanosmite_30:

(Start: 17 @15409 has 104 MA's), (19, 15424), (28, 15499), (36, 15559), (41, 15607), (59, 15754), (100, 16009), (107, 16060), (122, 16186), (130, 16261), (131, 16264), (141, 16345), (145, 16390), (153, 16429), (163, 16519), (175, 16645), (205, 16918), (214, 17041), (287, 17371), (307, 17410), (369, 17683), (393, 17791), (442, 17911), (461, 17989), (506, 18238), (546, 18394), (554, 18418), (556, 18427), (600, 18631), (632, 18799), (636, 18817), (649, 18901), (657, 18937), (662, 18964), (711, 19240), (727, 19306), (728, 19309), (742, 19390), (776, 19558), (782, 19591), (791, 19645), (802, 19699), (835, 19936), (867, 20149), (868, 20155), (874, 20182), (882, 20218), (920, 20497), (922, 20509), (933, 20617), (935, 20626), (938, 20638), (941, 20665), (956, 20929), (978, 21322), (979, 21340), (984, 21424), (986, 21442), (989, 21502), (992, 21532), (995, 21553), (997, 21559), (1002, 21643), (1006, 21664), (1014, 21748), (1015, 21757), (1016, 21760), (1020, 21826), (1021, 21829), (1024, 21847),

Gene: Nette_17 Start: 11910, Stop: 15836, Start Num: 76

Candidate Starts for Nette_17:

(Start: 76 @11910 has 1 MA's), (98, 12060), (112, 12201), (126, 12300), (148, 12507), (157, 12561), (162, 12597), (180, 12762), (183, 12786), (265, 13308), (331, 13503), (379, 13695), (425, 13797), (438, 13848), (459, 13920), (474, 14001), (497, 14118), (509, 14184), (532, 14241), (685, 14640), (705, 14757), (747, 14910), (756, 14937), (763, 14967), (783, 15054), (832, 15282), (861, 15438), (870, 15492), (900, 15687), (908, 15741),

Gene: Netyap_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Netyap_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Nicholas_17 Start: 10975, Stop: 16401, Start Num: 17

Candidate Starts for Nicholas_17:

(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153,

11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: Nicholasp3_16 Start: 10855, Stop: 15990, Start Num: 17

Candidate Starts for Nicholasp3_16:

(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: OhShagHennessy_16 Start: 10810, Stop: 15741, Start Num: 17

Candidate Starts for OhShagHennessy_16:

(Start: 17 @10810 has 104 MA's), (21, 10840), (Start: 22 @10846 has 1 MA's), (23, 10849), (33, 10957), (41, 11017), (44, 11038), (47, 11074), (52, 11101), (53, 11104), (56, 11125), (57, 11134), (60, 11149), (65, 11176), (69, 11185), (71, 11197), (73, 11203), (79, 11227), (82, 11239), (85, 11251), (86, 11254), (88, 11269), (90, 11311), (95, 11338), (97, 11353), (108, 11461), (117, 11545), (125, 11608), (130, 11650), (133, 11671), (140, 11734), (151, 11812), (157, 11863), (165, 11932), (178, 12055), (180, 12064), (183, 12088), (184, 12097), (188, 12118), (189, 12121), (195, 12211), (205, 12301), (207, 12322), (218, 12448), (223, 12475), (224, 12478), (225, 12481), (229, 12508), (232, 12532), (235, 12541), (237, 12556), (252, 12613), (257, 12634), (261, 12646), (282, 12736), (283, 12739), (299, 12814), (319, 12886), (321, 12895), (332, 12964), (342, 12997), (360, 13066), (365, 13084), (386, 13237), (395, 13285), (396, 13288), (403, 13309), (409, 13330), (414, 13354), (415, 13378), (422, 13405), (424, 13411), (434, 13444), (435, 13447), (443, 13489), (473, 13639), (479, 13690), (480, 13693), (487, 13735), (488, 13738), (491, 13756), (495, 13774), (511, 13870), (523, 13882), (525, 13885), (541, 13930), (592, 14035), (596, 14053), (615, 14122), (619, 14137), (626, 14173), (630, 14191), (637, 14221), (664, 14332), (675, 14392), (679, 14407), (686, 14449), (688, 14452), (713, 14572), (745, 14698), (746, 14701), (757, 14734), (765, 14770), (770, 14803), (771, 14806), (775, 14821), (778, 14833), (809, 14959), (826, 15082), (836, 15115), (839, 15130), (844, 15136),

(867, 15163), (875, 15205), (907, 15457), (923, 15535), (925, 15541), (931, 15589), (932, 15592), (937, 15634), (939, 15637), (947, 15733),

Gene: OverPar_16 Start: 10888, Stop: 16017, Start Num: 17

Candidate Starts for OverPar_16:

(Start: 17 @10888 has 104 MA's), (21, 10918), (Start: 22 @10924 has 1 MA's), (23, 10927), (29, 10990), (33, 11035), (34, 11038), (51, 11155), (56, 11182), (60, 11206), (62, 11212), (66, 11236), (72, 11257), (73, 11260), (74, 11263), (97, 11410), (102, 11473), (108, 11518), (109, 11521), (111, 11539), (114, 11581), (130, 11707), (135, 11734), (139, 11770), (140, 11791), (147, 11857), (153, 11875), (157, 11920), (162, 11956), (173, 12076), (176, 12100), (188, 12175), (189, 12178), (190, 12199), (191, 12202), (192, 12226), (195, 12268), (199, 12301), (213, 12472), (217, 12502), (223, 12532), (241, 12628), (243, 12637), (249, 12661), (252, 12670), (257, 12691), (273, 12757), (281, 12787), (283, 12796), (288, 12811), (291, 12823), (299, 12871), (305, 12895), (316, 12931), (330, 13009), (342, 13057), (394, 13333), (419, 13420), (422, 13441), (448, 13582), (451, 13594), (471, 13687), (475, 13717), (477, 13723), (488, 13804), (495, 13840), (537, 13999), (582, 14086), (583, 14089), (586, 14104), (597, 14140), (623, 14236), (630, 14287), (638, 14326), (647, 14362), (650, 14371), (656, 14404), (665, 14431), (667, 14455), (668, 14461), (670, 14470), (674, 14482), (676, 14491), (678, 14500), (682, 14533), (683, 14536), (720, 14701), (728, 14725), (733, 14755), (736, 14767), (739, 14785), (750, 14830), (751, 14833), (770, 14926), (822, 15175), (826, 15223), (841, 15283), (846, 15310), (848, 15316), (852, 15325), (855, 15334), (875, 15484), (883, 15517), (889, 15616), (895, 15649), (897, 15658), (901, 15679), (923, 15811), (925, 15817), (931, 15865), (934, 15895), (937, 15910), (947, 16009),

Gene: PYPDinur_16 Start: 10512, Stop: 15602, Start Num: 17

Candidate Starts for PYPDinur_16:

(Start: 17 @10512 has 104 MA's), (21, 10542), (23, 10551), (33, 10659), (38, 10689), (47, 10791), (51, 10815), (61, 10869), (62, 10872), (66, 10896), (69, 10902), (73, 10920), (74, 10923), (78, 10935), (82, 10956), (102, 11133), (108, 11178), (125, 11325), (131, 11370), (133, 11388), (136, 11409), (137, 11415), (140, 11451), (144, 11493), (149, 11523), (153, 11535), (156, 11571), (157, 11580), (159, 11595), (162, 11616), (167, 11661), (184, 11814), (194, 11919), (199, 11961), (204, 12015), (205, 12018), (210, 12093), (212, 12129), (217, 12162), (223, 12192), (225, 12198), (233, 12252), (237, 12273), (242, 12291), (247, 12315), (248, 12318), (249, 12321), (254, 12339), (267, 12390), (269, 12402), (270, 12408), (272, 12420), (278, 12441), (279, 12444), (282, 12459), (283, 12462), (299, 12537), (305, 12561), (316, 12597), (328, 12666), (339, 12711), (342, 12720), (349, 12753), (356, 12777), (357, 12780), (363, 12804), (366, 12831), (367, 12840), (374, 12894), (391, 12990), (422, 13116), (437, 13170), (441, 13194), (449, 13260), (453, 13272), (456, 13281), (468, 13335), (470, 13347), (473, 13359), (477, 13386), (485, 13452), (486, 13455), (488, 13464), (495, 13500), (501, 13530), (508, 13572), (509, 13575), (583, 13734), (586, 13755), (623, 13887), (630, 13938), (638, 13977), (645, 14001), (654, 14025), (665, 14052), (667, 14076), (678, 14121), (703, 14253), (708, 14265), (733, 14367), (736, 14379), (751, 14445), (754, 14451), (755, 14454), (770, 14538), (780, 14577), (781, 14583), (822, 14787), (833, 14856), (836, 14868), (841, 14895), (842, 14898), (875, 15066), (876, 15075), (879, 15081), (889, 15198), (899, 15249), (903, 15267), (904, 15282), (916, 15357), (919, 15372), (923, 15390), (925, 15396), (931, 15450), (932, 15453), (937, 15495), (947, 15594),

Gene: PegLeg_26 Start: 14635, Stop: 21456, Start Num: 17

Candidate Starts for PegLeg_26:

(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431,

17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: Poise_48 Start: 20207, Stop: 25756, Start Num: 1

Candidate Starts for Poise_48:

(Start: 1 @20207 has 18 MA's), (Start: 2 @20249 has 2 MA's), (3, 20393), (4, 20411), (5, 20423), (7, 20576), (15, 20735), (Start: 16 @20747 has 1 MA's), (20, 20780), (30, 20861), (31, 20864), (35, 20909), (37, 20930), (39, 20957), (43, 20999), (48, 21041), (57, 21101), (63, 21125), (70, 21161), (71, 21164), (89, 21245), (91, 21293), (96, 21323), (114, 21503), (115, 21506), (122, 21554), (130, 21629), (137, 21677), (143, 21773), (146, 21791), (148, 21809), (152, 21821), (157, 21869), (161, 21893), (162, 21905), (164, 21926), (173, 22025), (181, 22073), (185, 22106), (190, 22148), (195, 22217), (201, 22286), (204, 22295), (205, 22298), (214, 22418), (216, 22430), (221, 22460), (230, 22505), (232, 22526), (240, 22562), (250, 22589), (257, 22616), (258, 22619), (260, 22628), (274, 22685), (296, 22757), (313, 22814), (336, 22928), (344, 22949), (353, 22991), (366, 23051), (402, 23246), (407, 23261), (409, 23270), (413, 23294), (416, 23306), (418, 23309), (421, 23324), (429, 23357), (446, 23435), (463, 23522), (469, 23558), (477, 23606), (479, 23633), (501, 23747), (504, 23780), (518, 23825), (537, 23876), (557, 23924), (560, 23933), (566, 23954), (591, 24035), (599, 24077), (617, 24155), (618, 24158), (634, 24224), (642, 24275), (663, 24344), (692, 24500), (698, 24539), (719, 24641), (723, 24653), (762, 24806), (764, 24809), (785, 24920), (790, 24938), (794, 24968), (805, 25010), (811, 25049), (820, 25100), (859, 25310), (870, 25388), (885, 25466), (890, 25544), (915, 25694), (917, 25700),

Gene: Poochiewood_16 Start: 10836, Stop: 15776, Start Num: 17

Candidate Starts for Poochiewood_16:

(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (142, 11769), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Pringar_48 Start: 20522, Stop: 26044, Start Num: 1

Candidate Starts for Pringar_48:

(Start: 1 @20522 has 18 MA's), (Start: 2 @20564 has 2 MA's), (3, 20708), (5, 20738), (7, 20891), (15, 21050), (Start: 16 @21062 has 1 MA's), (20, 21095), (30, 21176), (31, 21179), (35, 21224), (37,

21245), (39, 21272), (43, 21314), (48, 21356), (57, 21416), (63, 21440), (70, 21476), (71, 21479), (89, 21560), (91, 21608), (96, 21638), (105, 21734), (114, 21818), (115, 21821), (122, 21869), (130, 21944), (137, 21992), (143, 22088), (146, 22106), (148, 22124), (152, 22136), (157, 22184), (161, 22208), (162, 22220), (164, 22241), (173, 22340), (181, 22388), (185, 22421), (190, 22463), (195, 22532), (201, 22601), (204, 22610), (205, 22613), (214, 22733), (216, 22745), (221, 22775), (230, 22820), (232, 22841), (240, 22877), (250, 22904), (257, 22931), (258, 22934), (260, 22943), (274, 23000), (336, 23243), (344, 23264), (353, 23306), (366, 23366), (402, 23561), (407, 23576), (409, 23585), (413, 23609), (416, 23621), (418, 23624), (421, 23639), (429, 23672), (446, 23750), (463, 23837), (469, 23873), (477, 23921), (479, 23948), (501, 24062), (504, 24095), (518, 24140), (537, 24191), (560, 24248), (566, 24269), (591, 24350), (599, 24392), (617, 24470), (618, 24473), (625, 24494), (634, 24539), (642, 24590), (673, 24722), (692, 24818), (698, 24857), (719, 24959), (723, 24971), (762, 25124), (764, 25127), (785, 25238), (790, 25256), (805, 25328), (816, 25394), (837, 25490), (844, 25517), (859, 25598), (870, 25676), (885, 25754), (890, 25832), (915, 25982), (917, 25988),

Gene: Quby_16 Start: 10511, Stop: 15610, Start Num: 17

Candidate Starts for Quby_16:

(Start: 17 @10511 has 104 MA's), (21, 10541), (23, 10550), (33, 10658), (38, 10688), (47, 10790), (51, 10814), (61, 10868), (62, 10871), (66, 10895), (69, 10901), (73, 10919), (78, 10934), (82, 10955), (85, 10967), (102, 11132), (108, 11177), (131, 11369), (133, 11387), (136, 11408), (137, 11414), (140, 11450), (144, 11492), (153, 11534), (156, 11570), (157, 11579), (159, 11594), (162, 11615), (167, 11660), (179, 11774), (188, 11834), (194, 11918), (199, 11960), (205, 12017), (210, 12092), (217, 12161), (223, 12191), (229, 12224), (237, 12272), (248, 12317), (249, 12320), (254, 12338), (272, 12419), (278, 12440), (279, 12443), (283, 12461), (299, 12536), (305, 12560), (316, 12596), (328, 12665), (339, 12710), (342, 12719), (349, 12752), (357, 12779), (363, 12803), (366, 12830), (367, 12839), (422, 13115), (437, 13169), (441, 13193), (449, 13259), (453, 13271), (456, 13280), (468, 13334), (470, 13346), (473, 13358), (477, 13385), (485, 13451), (486, 13454), (488, 13463), (495, 13499), (502, 13532), (503, 13559), (508, 13586), (509, 13589), (583, 13742), (586, 13763), (623, 13895), (630, 13946), (645, 14009), (665, 14060), (667, 14084), (678, 14129), (682, 14162), (703, 14261), (708, 14273), (733, 14375), (736, 14387), (751, 14453), (754, 14459), (755, 14462), (770, 14546), (780, 14585), (781, 14591), (787, 14624), (822, 14795), (833, 14864), (836, 14876), (841, 14903), (842, 14906), (875, 15074), (876, 15083), (879, 15089), (889, 15206), (899, 15257), (903, 15275), (904, 15290), (916, 15365), (919, 15380), (923, 15398), (925, 15404), (931, 15458), (932, 15461), (937, 15503), (947, 15602),

Gene: Raela_48 Start: 20762, Stop: 26311, Start Num: 1

Candidate Starts for Raela_48:

(Start: 1 @20762 has 18 MA's), (Start: 2 @20804 has 2 MA's), (3, 20948), (4, 20966), (5, 20978), (7, 21131), (15, 21290), (Start: 16 @21302 has 1 MA's), (20, 21335), (30, 21416), (31, 21419), (35, 21464), (37, 21485), (39, 21512), (43, 21554), (48, 21596), (57, 21656), (63, 21680), (70, 21716), (71, 21719), (75, 21731), (89, 21800), (91, 21848), (96, 21878), (114, 22058), (115, 22061), (122, 22109), (130, 22184), (137, 22232), (143, 22328), (146, 22346), (148, 22364), (152, 22376), (157, 22424), (161, 22448), (162, 22460), (164, 22481), (173, 22580), (181, 22628), (185, 22661), (190, 22703), (195, 22772), (201, 22841), (204, 22850), (205, 22853), (214, 22973), (216, 22985), (221, 23015), (230, 23060), (232, 23081), (240, 23117), (250, 23144), (257, 23171), (258, 23174), (260, 23183), (274, 23240), (313, 23369), (336, 23483), (344, 23504), (353, 23546), (366, 23606), (402, 23801), (407, 23816), (409, 23825), (413, 23849), (416, 23861), (418, 23864), (421, 23879), (429, 23912), (445, 23984), (446, 23990), (463, 24077), (469, 24113), (477, 24161), (479, 24188), (501, 24302), (504, 24335), (518, 24380), (537, 24431), (557, 24479), (560, 24488), (566, 24509), (591, 24590), (599, 24632), (617, 24710), (618, 24713), (634, 24779), (642, 24830), (663, 24899), (692, 25055), (698, 25094), (719, 25196), (723, 25208), (762, 25361), (764, 25364), (785, 25475), (790, 25493), (794, 25523), (805, 25565), (811, 25604), (820, 25655), (859, 25865), (870, 25943), (885, 26021), (890, 26099), (915, 26249), (917, 26255),

Gene: Red305_17 Start: 10975, Stop: 16401, Start Num: 17

Candidate Starts for Red305_17:

(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: RedRaider77_48 Start: 20663, Stop: 26212, Start Num: 1

Candidate Starts for RedRaider77_48:

(Start: 1 @20663 has 18 MA's), (Start: 2 @20705 has 2 MA's), (3, 20849), (4, 20867), (5, 20879), (7, 21032), (15, 21191), (Start: 16 @21203 has 1 MA's), (20, 21236), (30, 21317), (31, 21320), (35, 21365), (37, 21386), (39, 21413), (43, 21455), (48, 21497), (57, 21557), (63, 21581), (70, 21617), (71, 21620), (89, 21701), (91, 21749), (96, 21779), (114, 21959), (115, 21962), (122, 22010), (130, 22085), (137, 22133), (143, 22229), (146, 22247), (148, 22265), (152, 22277), (157, 22325), (161, 22349), (162, 22361), (164, 22382), (173, 22481), (181, 22529), (185, 22562), (190, 22604), (195, 22673), (201, 22742), (204, 22751), (205, 22754), (214, 22874), (216, 22886), (221, 22916), (230, 22961), (232, 22982), (240, 23018), (250, 23045), (257, 23072), (258, 23075), (260, 23084), (274, 23141), (313, 23270), (336, 23384), (344, 23405), (353, 23447), (366, 23507), (402, 23702), (407, 23717), (409, 23726), (413, 23750), (416, 23762), (418, 23765), (421, 23780), (429, 23813), (446, 23891), (463, 23978), (469, 24014), (477, 24062), (479, 24089), (501, 24203), (504, 24236), (518, 24281), (537, 24332), (557, 24380), (560, 24389), (566, 24410), (591, 24491), (599, 24533), (617, 24611), (618, 24614), (634, 24680), (642, 24731), (692, 24956), (698, 24995), (719, 25097), (723, 25109), (762, 25262), (764, 25265), (785, 25376), (790, 25394), (794, 25424), (805, 25466), (811, 25505), (820, 25556), (859, 25766), (870, 25844), (885, 25922), (890, 26000), (915, 26150), (917, 26156),

Gene: Reindeer_24 Start: 14476, Stop: 21279, Start Num: 17

Candidate Starts for Reindeer_24:

(Start: 17 @14476 has 104 MA's), (19, 14491), (28, 14566), (32, 14587), (36, 14626), (41, 14674), (59, 14821), (72, 14878), (Start: 76 @14893 has 1 MA's), (80, 14908), (84, 14926), (86, 14932), (108, 15139), (110, 15148), (113, 15193), (117, 15223), (119, 15229), (122, 15253), (124, 15277), (128, 15310), (130, 15328), (131, 15331), (141, 15412), (142, 15421), (151, 15490), (159, 15556), (163, 15586), (171, 15658), (175, 15712), (179, 15736), (180, 15742), (198, 15913), (200, 15931), (206, 15994), (211, 16078), (214, 16108), (227, 16183), (234, 16231), (236, 16237), (238, 16252), (239, 16255), (289, 16459), (295, 16489), (307, 16543), (309, 16552), (314, 16567), (325, 16612), (337, 16690), (345, 16714), (346, 16717), (350, 16741), (358, 16768), (373, 16879), (400, 17020), (409, 17053), (442, 17215), (450, 17290), (460, 17329), (464, 17362), (466, 17371), (490, 17539), (498, 17581), (510, 17668), (512, 17671), (515, 17710), (536, 17776), (540, 17806), (548, 17836), (550, 17839), (556, 17857), (577, 17950), (584, 18013), (598, 18067), (604, 18100), (605, 18103), (633, 18253), (647, 18331), (655, 18361), (690, 18553), (701, 18625), (742, 18835), (779, 19021), (782,

19042), (784, 19069), (795, 19126), (798, 19144), (799, 19153), (807, 19210), (808, 19222), (817, 19285), (832, 19384), (835, 19393), (838, 19414), (851, 19480), (861, 19558), (863, 19576), (874, 19648), (917, 19945), (918, 19954), (922, 19972), (931, 20035), (933, 20080), (948, 20248), (956, 20392), (966, 20587), (969, 20605), (972, 20635), (973, 20647), (980, 20773), (984, 20827), (985, 20830), (986, 20845), (987, 20872), (990, 20914), (998, 20989), (1002, 21049), (1007, 21073), (1010, 21115), (1015, 21163), (1016, 21166), (1018, 21175), (1020, 21232), (1024, 21253),

Gene: Rey_30 Start: 15430, Stop: 22233, Start Num: 17

Candidate Starts for Rey_30:

(Start: 17 @15430 has 104 MA's), (28, 15520), (36, 15580), (40, 15622), (80, 15862), (87, 15892), (100, 16030), (107, 16081), (108, 16093), (110, 16102), (120, 16189), (128, 16264), (130, 16282), (159, 16504), (161, 16513), (169, 16579), (171, 16606), (175, 16660), (176, 16669), (180, 16690), (200, 16879), (214, 17056), (219, 17086), (234, 17179), (235, 17182), (245, 17230), (259, 17290), (310, 17524), (324, 17578), (361, 17758), (363, 17773), (409, 18061), (439, 18217), (442, 18226), (450, 18304), (458, 18331), (483, 18520), (491, 18559), (540, 18829), (547, 18850), (567, 18928), (584, 19033), (588, 19048), (594, 19063), (635, 19267), (640, 19330), (658, 19405), (720, 19747), (734, 19810), (760, 19933), (767, 19972), (782, 20029), (789, 20077), (804, 20164), (829, 20359), (843, 20434), (865, 20602), (868, 20614), (882, 20686), (884, 20695), (918, 20965), (953, 21289), (971, 21574), (978, 21703), (987, 21847), (991, 21898), (992, 21910), (1007, 22033), (1012, 22102), (1014, 22114), (1024, 22210),

Gene: RonRayGun_17 Start: 11932, Stop: 16017, Start Num: 77

Candidate Starts for RonRayGun_17:

(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: Rose5_16 Start: 10836, Stop: 15776, Start Num: 17

Candidate Starts for Rose5_16:

(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: RoseMarie_26 Start: 14865, Stop: 21674, Start Num: 17

Candidate Starts for RoseMarie_26:

(Start: 17 @14865 has 104 MA's), (19, 14880), (28, 14955), (32, 14976), (36, 15015), (41, 15063), (51, 15165), (72, 15267), (80, 15297), (86, 15321), (108, 15528), (110, 15537), (119, 15618), (122, 15642), (124, 15666), (128, 15699), (130, 15717), (131, 15720), (141, 15801), (151, 15879), (162, 15966), (163, 15975), (175, 16101), (180, 16131), (198, 16302), (200, 16320), (214, 16497), (239, 16644), (294, 16875), (295, 16878), (307, 16932), (309, 16941), (314, 16956), (318, 16971), (320, 16980), (326, 17007), (337, 17085), (345, 17109), (358, 17163), (362, 17181), (373, 17283), (383, 17355), (409, 17457), (442, 17622), (450, 17697), (460, 17736), (464, 17769), (490, 17946), (498, 17988), (505, 18042), (510, 18075), (512, 18078), (520, 18129), (528, 18150), (547, 18228), (556, 18258), (574, 18333), (584, 18414), (598, 18468), (613, 18549), (633, 18654), (647, 18732), (655, 18762), (694, 18981), (701, 19026), (727, 19152), (728, 19155), (738, 19206), (742, 19236), (770, 19380), (779, 19419), (782, 19440), (784, 19467), (798, 19545), (799, 19554), (804, 19578), (807, 19611), (808, 19623), (817, 19686), (821, 19713), (832, 19785), (835, 19794), (838, 19815), (851, 19881), (867, 20007), (874, 20049), (884, 20091), (917, 20349), (918, 20358), (922, 20376), (931, 20439), (956, 20796), (967, 20988), (972, 21033), (973, 21045), (978, 21153), (981, 21174), (984, 21222), (986, 21240), (996, 21354), (998, 21384), (1002, 21444), (1007, 21468), (1015, 21558), (1016, 21561), (1018, 21570), (1020, 21627), (1024, 21648),

Gene: Rossetti_16 Start: 10855, Stop: 16005, Start Num: 17

Candidate Starts for Rossetti_16:

(Start: 17 @10855 has 104 MA's), (29, 10957), (33, 11002), (42, 11080), (44, 11083), (55, 11161), (66, 11224), (69, 11230), (72, 11245), (78, 11263), (92, 11359), (102, 11461), (108, 11506), (109, 11509), (114, 11569), (125, 11653), (130, 11695), (133, 11716), (139, 11758), (140, 11779), (149, 11851), (153, 11863), (157, 11908), (162, 11944), (169, 11998), (170, 12022), (188, 12163), (189, 12166), (190, 12187), (194, 12247), (199, 12289), (213, 12460), (223, 12520), (225, 12526), (237, 12601), (244, 12628), (257, 12679), (273, 12745), (276, 12751), (281, 12775), (285, 12793), (291, 12811), (299, 12859), (305, 12883), (316, 12919), (342, 13045), (389, 13300), (394, 13321), (419, 13408), (422, 13429), (451, 13582), (471, 13675), (477, 13711), (488, 13792), (495, 13828), (537, 13987), (549, 14017), (582, 14074), (583, 14077), (586, 14092), (597, 14128), (623, 14224), (626, 14257), (630, 14275), (638, 14314), (647, 14347), (656, 14389), (667, 14440), (674, 14467), (676, 14476), (678, 14485), (682, 14518), (683, 14521), (720, 14689), (728, 14713), (733, 14743), (736, 14755), (739, 14773), (750, 14818), (751, 14821), (770, 14914), (822, 15163), (824, 15166), (834, 15235), (841, 15271), (846, 15298), (848, 15304), (852, 15313), (883, 15505), (889, 15604), (895, 15637), (897, 15646), (901, 15667), (923, 15799), (925, 15805), (931, 15853), (932, 15856), (937, 15898), (947, 15997),

Gene: Rumpelstiltskin_16 Start: 10856, Stop: 15991, Start Num: 17

Candidate Starts for Rumpelstiltskin_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13973), (582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300), (647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456), (676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (728, 14699), (733, 14729), (736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197), (841, 15257), (846, 15284), (848, 15290), (852, 15299), (855, 15308), (875, 15458), (883, 15491), (889, 15590), (895, 15623), (897, 15632), (901, 15653), (923, 15785), (925, 15791), (931, 15839),

(934, 15869), (937, 15884), (947, 15983),

Gene: Samty_17 Start: 10972, Stop: 16404, Start Num: 17

Candidate Starts for Samty_17:

(Start: 17 @10972 has 104 MA's), (21, 11002), (23, 11011), (32, 11092), (33, 11119), (34, 11122), (45, 11221), (58, 11317), (62, 11332), (66, 11356), (73, 11380), (74, 11383), (78, 11395), (97, 11530), (102, 11593), (108, 11638), (109, 11641), (125, 11785), (133, 11848), (140, 11911), (153, 11995), (160, 12061), (182, 12250), (188, 12295), (189, 12298), (199, 12421), (200, 12430), (208, 12538), (209, 12547), (224, 12655), (225, 12658), (230, 12688), (231, 12706), (233, 12712), (237, 12733), (242, 12751), (255, 12802), (269, 12862), (271, 12880), (279, 12904), (299, 12997), (305, 13021), (312, 13042), (316, 13057), (321, 13078), (329, 13123), (333, 13138), (352, 13213), (376, 13351), (387, 13396), (420, 13522), (423, 13537), (430, 13561), (432, 13567), (434, 13573), (443, 13621), (473, 13777), (477, 13804), (479, 13831), (488, 13879), (494, 13912), (495, 13915), (503, 13972), (535, 14110), (537, 14113), (585, 14332), (593, 14350), (595, 14359), (610, 14434), (624, 14482), (626, 14509), (629, 14527), (661, 14683), (671, 14740), (677, 14776), (680, 14785), (684, 14821), (699, 14899), (701, 14920), (717, 15004), (721, 15031), (730, 15073), (731, 15079), (733, 15088), (740, 15133), (743, 15142), (752, 15187), (754, 15199), (793, 15424), (813, 15508), (826, 15610), (839, 15658), (841, 15670), (847, 15700), (850, 15706), (853, 15721), (858, 15775), (889, 16003), (895, 16036), (899, 16054), (903, 16072), (904, 16087), (913, 16147), (923, 16192), (931, 16252), (937, 16297), (939, 16300), (947, 16396),

Gene: Sarshaun_16 Start: 10889, Stop: 16018, Start Num: 17

Candidate Starts for Sarshaun_16:

(Start: 17 @10889 has 104 MA's), (21, 10919), (Start: 22 @10925 has 1 MA's), (23, 10928), (29, 10991), (33, 11036), (34, 11039), (51, 11156), (56, 11183), (60, 11207), (66, 11237), (72, 11258), (74, 11264), (97, 11411), (102, 11474), (108, 11519), (109, 11522), (111, 11540), (114, 11582), (135, 11735), (139, 11771), (140, 11792), (147, 11858), (153, 11876), (157, 11921), (162, 11957), (173, 12077), (176, 12101), (188, 12176), (189, 12179), (190, 12200), (191, 12203), (192, 12227), (195, 12269), (199, 12302), (213, 12473), (217, 12503), (223, 12533), (241, 12629), (243, 12638), (249, 12662), (252, 12671), (257, 12692), (273, 12758), (281, 12788), (283, 12797), (288, 12812), (291, 12824), (299, 12872), (305, 12896), (316, 12932), (319, 12944), (330, 13010), (342, 13058), (394, 13334), (419, 13421), (422, 13442), (448, 13583), (451, 13595), (471, 13688), (475, 13718), (477, 13724), (488, 13805), (495, 13841), (537, 14000), (582, 14087), (583, 14090), (586, 14105), (597, 14141), (623, 14237), (630, 14288), (638, 14327), (647, 14363), (650, 14372), (656, 14405), (665, 14432), (667, 14456), (668, 14462), (674, 14483), (676, 14492), (678, 14501), (682, 14534), (683, 14537), (720, 14702), (728, 14726), (733, 14756), (736, 14768), (739, 14786), (750, 14831), (751, 14834), (770, 14927), (822, 15176), (826, 15224), (841, 15284), (846, 15311), (848, 15317), (852, 15326), (855, 15335), (875, 15485), (883, 15518), (889, 15617), (895, 15650), (897, 15659), (901, 15680), (923, 15812), (925, 15818), (931, 15866), (934, 15896), (937, 15911), (947, 16010),

Gene: Sheng711_16 Start: 10512, Stop: 15602, Start Num: 17

Candidate Starts for Sheng711_16:

(Start: 17 @10512 has 104 MA's), (21, 10542), (23, 10551), (33, 10659), (38, 10689), (47, 10791), (51, 10815), (61, 10869), (62, 10872), (66, 10896), (69, 10902), (73, 10920), (74, 10923), (78, 10935), (82, 10956), (102, 11133), (108, 11178), (125, 11325), (131, 11370), (133, 11388), (136, 11409), (137, 11415), (140, 11451), (144, 11493), (149, 11523), (153, 11535), (156, 11571), (157, 11580), (159, 11595), (162, 11616), (167, 11661), (184, 11814), (194, 11919), (199, 11961), (204, 12015), (205, 12018), (210, 12093), (212, 12129), (217, 12162), (223, 12192), (225, 12198), (233, 12252), (237, 12273), (242, 12291), (247, 12315), (248, 12318), (249, 12321), (254, 12339), (267, 12390), (269, 12402), (270, 12408), (272, 12420), (278, 12441), (279, 12444), (282, 12459), (283, 12462), (299, 12537), (305, 12561), (316, 12597), (328, 12666), (339, 12711), (342, 12720), (349, 12753), (356, 12777), (357, 12780), (363, 12804), (366, 12831), (367, 12840), (374, 12894), (391, 12990), (422, 13116), (437, 13170), (441, 13194), (449, 13260), (453, 13272), (456, 13281), (468, 13335), (470,

13347), (473, 13359), (477, 13386), (485, 13452), (486, 13455), (488, 13464), (495, 13500), (501, 13530), (508, 13572), (509, 13575), (583, 13734), (586, 13755), (623, 13887), (630, 13938), (638, 13977), (645, 14001), (654, 14025), (665, 14052), (667, 14076), (678, 14121), (703, 14253), (708, 14265), (733, 14367), (736, 14379), (751, 14445), (754, 14451), (755, 14454), (770, 14538), (780, 14577), (781, 14583), (822, 14787), (833, 14856), (836, 14868), (841, 14895), (842, 14898), (875, 15066), (876, 15075), (879, 15081), (889, 15198), (899, 15249), (903, 15267), (904, 15282), (916, 15357), (919, 15372), (923, 15390), (925, 15396), (931, 15450), (932, 15453), (937, 15495), (947, 15594),

Gene: Silverleaf_16 Start: 10836, Stop: 15776, Start Num: 17

Candidate Starts for Silverleaf_16:

(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Skinny_27 Start: 14636, Stop: 21457, Start Num: 17

Candidate Starts for Skinny_27:

(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: SlimJimmy_25 Start: 14622, Stop: 21443, Start Num: 17

Candidate Starts for SlimJimmy_25:

(Start: 17 @14622 has 104 MA's), (19, 14637), (28, 14712), (32, 14733), (36, 14772), (41, 14820), (51, 14922), (86, 15078), (100, 15222), (108, 15285), (110, 15294), (119, 15375), (122, 15399), (124, 15423), (128, 15456), (130, 15474), (131, 15477), (141, 15558), (143, 15591), (163, 15732), (175, 15858), (198, 16059), (200, 16077), (211, 16224), (214, 16254), (234, 16377), (294, 16632), (295,

16635), (301, 16668), (303, 16671), (307, 16689), (309, 16698), (314, 16713), (318, 16728), (320, 16737), (326, 16764), (337, 16842), (358, 16923), (373, 17043), (400, 17184), (409, 17217), (431, 17316), (442, 17382), (450, 17457), (464, 17529), (490, 17706), (498, 17748), (510, 17835), (512, 17838), (520, 17889), (547, 17994), (552, 18012), (556, 18024), (572, 18096), (577, 18117), (598, 18234), (605, 18270), (613, 18315), (633, 18420), (647, 18498), (651, 18513), (706, 18825), (727, 18921), (736, 18969), (742, 19005), (748, 19038), (760, 19083), (762, 19101), (779, 19188), (782, 19209), (784, 19236), (817, 19458), (832, 19557), (835, 19566), (838, 19587), (849, 19641), (851, 19653), (874, 19821), (884, 19866), (917, 20124), (935, 20268), (936, 20277), (972, 20805), (978, 20922), (984, 20991), (986, 21009), (996, 21123), (998, 21153), (1007, 21237), (1011, 21285), (1016, 21330), (1024, 21417),

Gene: Snenia_17 Start: 10976, Stop: 16402, Start Num: 17

Candidate Starts for Snenia_17:

(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (32, 11096), (33, 11123), (34, 11126), (45, 11225), (58, 11321), (62, 11336), (66, 11360), (73, 11384), (74, 11387), (78, 11399), (97, 11534), (102, 11597), (108, 11642), (109, 11645), (125, 11789), (133, 11852), (139, 11894), (140, 11915), (153, 11999), (160, 12065), (182, 12254), (188, 12299), (189, 12302), (199, 12425), (200, 12434), (208, 12542), (209, 12551), (224, 12659), (225, 12662), (230, 12692), (231, 12710), (233, 12716), (237, 12737), (242, 12755), (255, 12806), (269, 12866), (271, 12884), (279, 12908), (299, 13001), (305, 13025), (312, 13046), (316, 13061), (321, 13082), (329, 13127), (333, 13142), (352, 13217), (376, 13355), (387, 13400), (420, 13526), (423, 13541), (430, 13565), (432, 13571), (434, 13577), (443, 13625), (473, 13781), (477, 13808), (479, 13835), (488, 13883), (494, 13916), (495, 13919), (502, 13949), (503, 13976), (535, 14114), (537, 14117), (542, 14153), (585, 14330), (593, 14348), (595, 14357), (603, 14399), (610, 14429), (621, 14465), (624, 14477), (626, 14504), (629, 14522), (661, 14681), (671, 14738), (677, 14774), (680, 14783), (684, 14819), (699, 14897), (701, 14918), (717, 15002), (721, 15029), (730, 15071), (731, 15077), (733, 15086), (740, 15131), (743, 15140), (752, 15185), (754, 15197), (793, 15422), (797, 15434), (813, 15506), (826, 15608), (841, 15668), (847, 15698), (850, 15704), (853, 15719), (858, 15773), (889, 16001), (895, 16034), (899, 16052), (903, 16070), (904, 16085), (913, 16145), (923, 16190), (931, 16250), (937, 16295), (939, 16298), (947, 16394),

Gene: SoJulia_16 Start: 10855, Stop: 15984, Start Num: 17

Candidate Starts for SoJulia_16:

(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (537, 13966), (582, 14053), (583, 14056), (586, 14071), (597, 14107), (623, 14203), (630, 14254), (638, 14293), (647, 14329), (650, 14338), (656, 14371), (665, 14398), (667, 14422), (668, 14428), (674, 14449), (676, 14458), (678, 14467), (682, 14500), (683, 14503), (720, 14668), (733, 14722), (736, 14734), (739, 14752), (750, 14797), (751, 14800), (770, 14893), (822, 15142), (826, 15190), (841, 15250), (846, 15277), (848, 15283), (852, 15292), (855, 15301), (875, 15451), (883, 15484), (889, 15583), (895, 15616), (901, 15646), (923, 15778), (925, 15784), (931, 15832), (934, 15862), (937, 15877), (947, 15976),

Gene: Soap141_16 Start: 10889, Stop: 16018, Start Num: 17

Candidate Starts for Soap141_16:

(Start: 17 @10889 has 104 MA's), (21, 10919), (Start: 22 @10925 has 1 MA's), (23, 10928), (29, 10991), (33, 11036), (34, 11039), (51, 11156), (56, 11183), (60, 11207), (66, 11237), (72, 11258), (74, 11264), (97, 11411), (102, 11474), (108, 11519), (109, 11522), (111, 11540), (114, 11582), (135, 11735), (139, 11771), (140, 11792), (147, 11858), (153, 11876), (157, 11921), (162, 11957), (173, 12077), (176, 12101), (188, 12176), (189, 12179), (190, 12200), (191, 12203), (192, 12227), (195, 12269), (199, 12302), (213, 12473), (217, 12503), (223, 12533), (241, 12629), (243, 12638), (249, 12662), (252, 12671), (257, 12692), (273, 12758), (281, 12788), (283, 12797), (288, 12812), (291, 12824), (299, 12872), (305, 12896), (316, 12932), (319, 12944), (330, 13010), (342, 13058), (394, 13334), (419, 13421), (422, 13442), (448, 13583), (451, 13595), (471, 13688), (475, 13718), (477, 13724), (488, 13805), (495, 13841), (537, 14000), (582, 14087), (583, 14090), (586, 14105), (597, 14141), (623, 14237), (630, 14288), (638, 14327), (647, 14363), (650, 14372), (656, 14405), (665, 14432), (667, 14456), (668, 14462), (674, 14483), (676, 14492), (678, 14501), (682, 14534), (683, 14537), (720, 14702), (728, 14726), (733, 14756), (736, 14768), (739, 14786), (750, 14831), (751, 14834), (770, 14927), (822, 15176), (826, 15224), (841, 15284), (846, 15311), (848, 15317), (852, 15326), (855, 15335), (875, 15485), (883, 15518), (889, 15617), (895, 15650), (897, 15659), (901, 15680), (923, 15812), (925, 15818), (931, 15866), (934, 15896), (937, 15911), (947, 16010),

Gene: Sparky_14 Start: 9734, Stop: 15127, Start Num: 6

Candidate Starts for Sparky_14:

(Start: 6 @9734 has 2 MA's), (8, 9815), (9, 9824), (10, 9845), (11, 9851), (12, 9866), (13, 9875), (24, 10007), (50, 10271), (51, 10280), (54, 10295), (57, 10316), (68, 10367), (75, 10391), (83, 10430), (91, 10508), (101, 10601), (104, 10622), (117, 10730), (118, 10733), (121, 10751), (127, 10808), (129, 10832), (133, 10856), (134, 10859), (141, 10952), (146, 11003), (153, 11036), (177, 11264), (194, 11420), (196, 11441), (205, 11513), (217, 11657), (220, 11669), (222, 11681), (224, 11690), (228, 11711), (232, 11744), (246, 11804), (249, 11816), (255, 11837), (263, 11867), (269, 11891), (284, 11963), (296, 12005), (298, 12017), (302, 12035), (304, 12044), (323, 12110), (363, 12302), (375, 12389), (384, 12446), (385, 12449), (392, 12482), (409, 12548), (426, 12620), (440, 12680), (462, 12794), (467, 12824), (475, 12881), (493, 12992), (503, 13061), (525, 13121), (538, 13160), (558, 13214), (565, 13232), (575, 13265), (582, 13289), (586, 13307), (599, 13358), (601, 13367), (612, 13421), (639, 13553), (643, 13583), (666, 13673), (681, 13751), (683, 13772), (691, 13811), (693, 13820), (700, 13868), (741, 14051), (747, 14084), (755, 14108), (772, 14201), (792, 14297), (796, 14324), (805, 14363), (813, 14408), (818, 14456), (827, 14516), (842, 14582), (873, 14771), (881, 14804), (886, 14840), (888, 14897), (892, 14921), (896, 14948), (902, 14972), (910, 15032), (912, 15059), (914, 15062),

Gene: Tesla_47 Start: 20512, Stop: 26061, Start Num: 1

Candidate Starts for Tesla_47:

(Start: 1 @20512 has 18 MA's), (Start: 2 @20554 has 2 MA's), (3, 20698), (4, 20716), (5, 20728), (7, 20881), (15, 21040), (Start: 16 @21052 has 1 MA's), (20, 21085), (30, 21166), (31, 21169), (35, 21214), (37, 21235), (39, 21262), (43, 21304), (48, 21346), (57, 21406), (63, 21430), (70, 21466), (71, 21469), (89, 21550), (91, 21598), (96, 21628), (105, 21724), (114, 21808), (115, 21811), (122, 21859), (130, 21934), (137, 21982), (143, 22078), (146, 22096), (148, 22114), (152, 22126), (157, 22174), (161, 22198), (162, 22210), (164, 22231), (173, 22330), (181, 22378), (185, 22411), (190, 22453), (195, 22522), (201, 22591), (204, 22600), (205, 22603), (214, 22723), (216, 22735), (221, 22765), (230, 22810), (232, 22831), (240, 22867), (250, 22894), (257, 22921), (258, 22924), (260, 22933), (274, 22990), (313, 23119), (336, 23233), (344, 23254), (353, 23296), (366, 23356), (402, 23551), (407, 23566), (409, 23575), (413, 23599), (416, 23611), (418, 23614), (421, 23629), (429, 23662), (445, 23734), (446, 23740), (463, 23827), (469, 23863), (477, 23911), (479, 23938), (501, 24052), (504, 24085), (518, 24130), (537, 24181), (557, 24229), (560, 24238), (566, 24259), (591, 24340), (599, 24382), (617, 24460), (618, 24463), (634, 24529), (642, 24580), (663, 24649), (692, 24805), (698, 24844), (719, 24946), (723, 24958), (762, 25111), (764, 25114), (785, 25225), (790, 25243), (794, 25273), (805, 25315), (811, 25354), (820, 25405), (859, 25615), (870, 25693), (885, 25771), (890, 25849), (915, 25999), (917, 26005),

Gene: Tourach_16 Start: 10871, Stop: 15982, Start Num: 17

Candidate Starts for Tourach_16:

(Start: 17 @10871 has 104 MA's), (Start: 22 @10907 has 1 MA's), (23, 10910), (29, 10973), (33, 11018), (51, 11159), (55, 11177), (56, 11186), (60, 11210), (62, 11216), (66, 11240), (69, 11246), (72, 11261), (73, 11264), (78, 11279), (79, 11288), (84, 11309), (97, 11414), (102, 11477), (108, 11522), (109, 11525), (114, 11585), (118, 11609), (125, 11669), (130, 11711), (131, 11714), (133, 11732), (140, 11795), (147, 11861), (149, 11867), (153, 11879), (157, 11924), (162, 11960), (169, 12014), (174, 12083), (176, 12104), (178, 12116), (188, 12179), (189, 12182), (190, 12203), (199, 12305), (213, 12476), (217, 12506), (223, 12536), (225, 12542), (237, 12617), (249, 12665), (257, 12695), (273, 12761), (276, 12767), (281, 12791), (283, 12800), (291, 12827), (299, 12875), (303, 12887), (305, 12899), (316, 12935), (342, 13061), (394, 13337), (419, 13424), (422, 13445), (451, 13598), (471, 13691), (475, 13721), (477, 13727), (479, 13760), (488, 13808), (495, 13844), (503, 13904), (537, 14003), (582, 14090), (583, 14093), (586, 14114), (590, 14123), (623, 14246), (630, 14297), (638, 14336), (647, 14372), (652, 14387), (667, 14420), (674, 14447), (678, 14465), (683, 14501), (733, 14720), (736, 14732), (739, 14750), (751, 14798), (754, 14804), (770, 14891), (822, 15140), (834, 15212), (842, 15251), (846, 15275), (848, 15281), (852, 15290), (855, 15299), (883, 15482), (889, 15581), (895, 15614), (897, 15623), (901, 15644), (923, 15776), (925, 15782), (931, 15830), (934, 15860), (937, 15875), (947, 15974),

Gene: TpudiCK_27 Start: 14635, Stop: 21456, Start Num: 17

Candidate Starts for TpudiCK_27:

(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: TriFive_17 Start: 10975, Stop: 16401, Start Num: 17

Candidate Starts for TriFive_17:

(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847,

15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: TyDawg_26 Start: 14636, Stop: 21457, Start Num: 17

Candidate Starts for TyDawg_26:

(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: Tyson_16 Start: 10836, Stop: 15776, Start Num: 17

Candidate Starts for Tyson_16:

(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (786, 14895), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: UPIE_16 Start: 10834, Stop: 15774, Start Num: 17

Candidate Starts for UPIE_16:

(Start: 17 @10834 has 104 MA's), (21, 10864), (Start: 22 @10870 has 1 MA's), (23, 10873), (33, 10981), (41, 11041), (44, 11062), (47, 11098), (52, 11125), (53, 11128), (56, 11149), (57, 11158), (60, 11173), (62, 11179), (65, 11200), (66, 11203), (69, 11209), (71, 11221), (73, 11227), (79, 11251), (82, 11263), (85, 11275), (86, 11278), (90, 11335), (95, 11362), (97, 11377), (108, 11485), (117, 11569), (125, 11632), (130, 11674), (133, 11695), (140, 11758), (151, 11836), (157, 11887), (165, 11956), (178, 12079), (180, 12088), (183, 12112), (184, 12121), (188, 12142), (189, 12145), (195, 12235), (205, 12325), (218, 12472), (223, 12499), (224, 12502), (225, 12505), (229, 12532), (232, 12556), (235, 12565), (252, 12637), (257, 12658), (261, 12670), (282, 12760), (283, 12763), (299, 12838), (319, 12910), (321, 12919), (332, 12988), (342, 13021), (360, 13090), (365, 13108), (386, 13261),

(395, 13309), (396, 13312), (403, 13333), (409, 13354), (414, 13378), (415, 13402), (422, 13429), (424, 13435), (434, 13468), (435, 13471), (443, 13513), (473, 13663), (480, 13717), (487, 13759), (488, 13762), (491, 13780), (495, 13798), (504, 13861), (511, 13894), (523, 13906), (525, 13909), (537, 13945), (545, 13963), (587, 14050), (592, 14059), (596, 14077), (615, 14143), (616, 14152), (619, 14158), (626, 14194), (630, 14212), (637, 14242), (664, 14353), (675, 14413), (679, 14428), (686, 14470), (688, 14473), (713, 14593), (745, 14719), (746, 14722), (757, 14755), (765, 14791), (771, 14827), (775, 14842), (778, 14854), (809, 14980), (826, 15103), (836, 15136), (867, 15196), (875, 15238), (907, 15490), (923, 15568), (925, 15574), (931, 15622), (932, 15625), (937, 15667), (939, 15670), (947, 15766),

Gene: Underpass_16 Start: 10855, Stop: 15990, Start Num: 17

Candidate Starts for Underpass_16:

(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: VasuNzinga_48 Start: 20096, Stop: 25618, Start Num: 1

Candidate Starts for VasuNzinga_48:

(Start: 1 @20096 has 18 MA's), (Start: 2 @20138 has 2 MA's), (3, 20282), (4, 20300), (5, 20312), (7, 20465), (15, 20624), (Start: 16 @20636 has 1 MA's), (20, 20669), (30, 20750), (31, 20753), (35, 20798), (37, 20819), (39, 20846), (43, 20888), (48, 20930), (57, 20990), (63, 21014), (70, 21050), (71, 21053), (89, 21134), (91, 21182), (96, 21212), (105, 21308), (114, 21392), (115, 21395), (122, 21443), (130, 21518), (137, 21566), (143, 21662), (146, 21680), (148, 21698), (152, 21710), (157, 21758), (161, 21782), (162, 21794), (164, 21815), (173, 21914), (181, 21962), (185, 21995), (190, 22037), (195, 22106), (201, 22175), (204, 22184), (205, 22187), (214, 22307), (216, 22319), (221, 22349), (230, 22394), (232, 22415), (240, 22451), (250, 22478), (257, 22505), (258, 22508), (260, 22517), (274, 22574), (336, 22817), (344, 22838), (353, 22880), (366, 22940), (402, 23135), (407, 23150), (409, 23159), (413, 23183), (416, 23195), (418, 23198), (421, 23213), (429, 23246), (446, 23324), (463, 23411), (469, 23447), (477, 23495), (479, 23522), (501, 23636), (504, 23669), (518, 23714), (537, 23765), (560, 23822), (566, 23843), (591, 23924), (599, 23966), (617, 24044), (618, 24047), (634, 24113), (642, 24164), (673, 24296), (692, 24392), (698, 24431), (719, 24533), (723, 24545), (762, 24698), (764, 24701), (785, 24812), (790, 24830), (805, 24902), (816, 24968), (837, 25064), (844, 25091), (859, 25172), (870, 25250), (885, 25328), (890, 25406), (915, 25556), (917, 25562),

Gene: Vetrix_16 Start: 10856, Stop: 15991, Start Num: 17

Candidate Starts for Vetrix_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507),

(114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825),
(153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146),
(190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470),
(223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725),
(281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899),
(319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562),
(471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13973),
(582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300),
(647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456),
(676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (728, 14699), (733, 14729),
(736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197),
(841, 15257), (846, 15284), (848, 15290), (852, 15299), (855, 15308), (875, 15458), (883, 15491),
(889, 15590), (895, 15623), (897, 15632), (901, 15653), (923, 15785), (925, 15791), (931, 15839),
(934, 15869), (937, 15884), (947, 15983),

Gene: Wamburgrxpress_16 Start: 10836, Stop: 15788, Start Num: 17

Candidate Starts for Wamburgrxpress_16:

(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (415, 13404), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14157), (616, 14166), (619, 14172), (626, 14208), (630, 14226), (637, 14256), (664, 14367), (675, 14427), (679, 14442), (686, 14484), (688, 14487), (713, 14607), (745, 14733), (746, 14736), (757, 14769), (765, 14805), (771, 14841), (775, 14856), (778, 14868), (809, 14994), (826, 15117), (836, 15150), (867, 15210), (875, 15252), (907, 15504), (923, 15582), (925, 15588), (931, 15636), (932, 15639), (937, 15681), (939, 15684), (947, 15780),

Gene: Whirlwind_18 Start: 10963, Stop: 16158, Start Num: 17

Candidate Starts for Whirlwind_18:

(Start: 17 @10963 has 104 MA's), (21, 10993), (23, 11002), (32, 11083), (33, 11110), (34, 11113), (58, 11308), (72, 11368), (73, 11371), (74, 11374), (78, 11386), (97, 11521), (102, 11584), (108, 11629), (109, 11632), (125, 11776), (131, 11821), (140, 11902), (144, 11944), (146, 11953), (153, 11986), (157, 12031), (160, 12052), (188, 12286), (189, 12289), (199, 12412), (200, 12421), (224, 12646), (231, 12697), (233, 12703), (237, 12724), (243, 12748), (267, 12841), (277, 12889), (279, 12895), (282, 12910), (297, 12970), (299, 12988), (312, 13033), (316, 13048), (329, 13114), (342, 13159), (376, 13330), (380, 13351), (387, 13375), (422, 13513), (434, 13552), (443, 13600), (457, 13678), (465, 13726), (473, 13756), (477, 13783), (492, 13885), (502, 13933), (507, 13987), (526, 14065), (539, 14131), (602, 14374), (653, 14563), (674, 14623), (676, 14632), (678, 14641), (708, 14800), (717, 14830), (718, 14836), (724, 14854), (726, 14860), (733, 14896), (736, 14908), (739, 14926), (749, 14968), (751, 14974), (758, 14995), (770, 15067), (814, 15280), (825, 15328), (826, 15361), (828, 15364), (841, 15421), (850, 15457), (853, 15472), (858, 15526), (870, 15601), (874, 15622), (879, 15640), (895, 15790), (899, 15808), (903, 15826), (904, 15841), (913, 15901), (923, 15946), (925, 15952), (937, 16051), (947, 16150),

Gene: Whitty_17 Start: 11932, Stop: 16017, Start Num: 77

Candidate Starts for Whitty_17:

(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: Wigglewobble_16 Start: 10888, Stop: 16017, Start Num: 17

Candidate Starts for Wigglewobble_16:

(Start: 17 @10888 has 104 MA's), (21, 10918), (Start: 22 @10924 has 1 MA's), (23, 10927), (29, 10990), (33, 11035), (34, 11038), (51, 11155), (56, 11182), (60, 11206), (62, 11212), (66, 11236), (72, 11257), (73, 11260), (74, 11263), (97, 11410), (102, 11473), (108, 11518), (109, 11521), (111, 11539), (114, 11581), (130, 11707), (135, 11734), (139, 11770), (140, 11791), (142, 11800), (147, 11857), (153, 11875), (157, 11920), (162, 11956), (173, 12076), (176, 12100), (188, 12175), (189, 12178), (190, 12199), (191, 12202), (192, 12226), (195, 12268), (199, 12301), (213, 12472), (217, 12502), (223, 12532), (241, 12628), (243, 12637), (249, 12661), (252, 12670), (257, 12691), (273, 12757), (281, 12787), (283, 12796), (288, 12811), (291, 12823), (299, 12871), (305, 12895), (316, 12931), (319, 12943), (342, 13057), (394, 13333), (419, 13420), (422, 13441), (448, 13582), (451, 13594), (471, 13687), (475, 13717), (477, 13723), (488, 13804), (495, 13840), (537, 13999), (582, 14086), (583, 14089), (586, 14104), (597, 14140), (623, 14236), (630, 14287), (638, 14326), (647, 14362), (650, 14371), (656, 14404), (665, 14431), (667, 14455), (668, 14461), (670, 14470), (674, 14482), (676, 14491), (678, 14500), (682, 14533), (683, 14536), (720, 14701), (728, 14725), (733, 14755), (736, 14767), (739, 14785), (750, 14830), (751, 14833), (770, 14926), (822, 15175), (826, 15223), (841, 15283), (846, 15310), (848, 15316), (852, 15325), (855, 15334), (875, 15484), (883, 15517), (889, 15616), (895, 15649), (897, 15658), (901, 15679), (923, 15811), (925, 15817), (931, 15865), (934, 15895), (937, 15910), (947, 16009),

Gene: Wildcat_38 Start: 17708, Stop: 23659, Start Num: 17

Candidate Starts for Wildcat_38:

(14, 17684), (Start: 17 @17708 has 104 MA's), (26, 17777), (27, 17789), (51, 17990), (55, 18008), (67, 18074), (81, 18137), (85, 18152), (86, 18155), (90, 18224), (102, 18329), (104, 18341), (106, 18356), (108, 18374), (116, 18452), (117, 18458), (121, 18479), (125, 18521), (131, 18566), (132, 18575), (133, 18584), (136, 18605), (138, 18626), (142, 18671), (144, 18704), (147, 18728), (150, 18737), (154, 18758), (163, 18836), (171, 18908), (172, 18917), (174, 18950), (186, 19031), (187, 19034), (200, 19175), (202, 19220), (208, 19289), (214, 19352), (220, 19385), (224, 19406), (228, 19436), (230, 19448), (231, 19466), (232, 19469), (237, 19493), (245, 19526), (262, 19586), (264, 19592), (266, 19604), (268, 19616), (275, 19646), (293, 19700), (299, 19721), (307, 19751), (313, 19763), (322, 19787), (324, 19793), (334, 19847), (337, 19859), (348, 19901), (351, 19916), (359, 19934), (364, 19952), (370, 20006), (372, 20015), (398, 20132), (399, 20135), (406, 20159), (454, 20324), (455, 20327), (460, 20339), (481, 20480), (494, 20549), (517, 20675), (531, 20717), (544, 20771), (546, 20774), (550, 20789), (562, 20825), (573, 20879), (579, 20909), (580, 20924), (584, 20957), (604, 21029), (608, 21053), (620, 21092), (628, 21128), (644, 21203), (708, 21503), (729, 21596), (735, 21623), (759, 21731), (761, 21752), (766, 21770), (773, 21809), (801, 21938), (803, 21950), (805, 21953), (819, 22040), (823, 22049), (831, 22094), (840, 22136), (845, 22160), (849, 22178), (854, 22193), (868, 22304), (870, 22316), (878, 22340), (893, 22433), (894, 22436), (899, 22451), (905, 22487), (906, 22496), (909, 22508), (928, 22592), (929, 22598), (930, 22601), (933, 22628), (940, 22664), (942, 22685), (943, 22688), (944, 22721), (949, 22754), (950, 22778), (951, 22799), (952, 22814), (954, 22829), (955, 22838), (961, 22904), (968, 23027), (974, 23072), (975, 23093), (977, 23138), (982, 23168), (988, 23279), (999, 23393), (1003, 23444), (1005, 23453), (1009, 23498), (1015, 23540), (1017, 23546), (1019, 23558), (1022, 23612), (1023, 23615),

Gene: Wilder_16 Start: 10855, Stop: 15990, Start Num: 17

Candidate Starts for Wilder_16:

(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (330, 12976), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: Winky_16 Start: 10856, Stop: 15985, Start Num: 17

Candidate Starts for Winky_16:

(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Wyatt2_16 Start: 10836, Stop: 15776, Start Num: 17

Candidate Starts for Wyatt2_16:

(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911),

(537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Zakai_16 Start: 10844, Stop: 15979, Start Num: 17

Candidate Starts for Zakai_16:

(Start: 17 @10844 has 104 MA's), (21, 10874), (Start: 22 @10880 has 1 MA's), (23, 10883), (29, 10946), (33, 10991), (34, 10994), (51, 11111), (56, 11138), (60, 11162), (62, 11168), (66, 11192), (72, 11213), (73, 11216), (74, 11219), (97, 11366), (102, 11429), (108, 11474), (109, 11477), (111, 11495), (114, 11537), (130, 11663), (135, 11690), (139, 11726), (140, 11747), (142, 11756), (147, 11813), (153, 11831), (157, 11876), (162, 11912), (173, 12032), (176, 12056), (188, 12131), (189, 12134), (190, 12155), (191, 12158), (192, 12182), (195, 12224), (199, 12257), (213, 12428), (217, 12458), (223, 12488), (241, 12584), (243, 12593), (249, 12617), (252, 12626), (257, 12647), (273, 12713), (281, 12743), (283, 12752), (288, 12767), (291, 12779), (299, 12827), (305, 12851), (316, 12887), (330, 12965), (342, 13013), (394, 13289), (419, 13376), (422, 13397), (448, 13538), (451, 13550), (471, 13643), (475, 13673), (477, 13679), (488, 13760), (495, 13796), (503, 13856), (537, 13961), (582, 14048), (583, 14051), (586, 14066), (597, 14102), (623, 14198), (630, 14249), (638, 14288), (647, 14324), (650, 14333), (656, 14366), (665, 14393), (667, 14417), (668, 14423), (674, 14444), (676, 14453), (678, 14462), (682, 14495), (683, 14498), (720, 14663), (728, 14687), (733, 14717), (736, 14729), (739, 14747), (750, 14792), (751, 14795), (770, 14888), (822, 15137), (826, 15185), (841, 15245), (846, 15272), (848, 15278), (852, 15287), (855, 15296), (875, 15446), (883, 15479), (889, 15578), (895, 15611), (897, 15620), (901, 15641), (923, 15773), (925, 15779), (931, 15827), (934, 15857), (937, 15872), (947, 15971),

Gene: Zaria_16 Start: 10837, Stop: 15789, Start Num: 17

Candidate Starts for Zaria_16:

(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (65, 11203), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (88, 11296), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (199, 12271), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (415, 13405), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14158), (616, 14167), (619, 14173), (626, 14209), (630, 14227), (637, 14257), (664, 14368), (675, 14428), (679, 14443), (686, 14485), (688, 14488), (713, 14608), (745, 14734), (746, 14737), (757, 14770), (765, 14806), (771, 14842), (775, 14857), (778, 14869), (786, 14908), (809, 14995), (826, 15118), (836, 15151), (867, 15211), (875, 15253), (907, 15505), (923, 15583), (925, 15589), (931, 15637), (932, 15640), (937, 15682), (939, 15685), (947, 15781),

Gene: ZenTime222_17 Start: 11932, Stop: 16017, Start Num: 77

Candidate Starts for ZenTime222_17:

(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056),

(489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875),
(705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313),
(857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: ZhongYanYuan_15 Start: 10786, Stop: 15810, Start Num: 29

Candidate Starts for ZhongYanYuan_15:

(Start: 17 @10684 has 104 MA's), (18, 10696), (Start: 22 @10720 has 1 MA's), (23, 10723), (29, 10786), (33, 10831), (51, 10972), (55, 10990), (56, 10999), (62, 11029), (66, 11053), (69, 11059), (72, 11074), (73, 11077), (78, 11092), (79, 11101), (84, 11122), (92, 11188), (97, 11227), (102, 11290), (108, 11335), (109, 11338), (114, 11398), (118, 11422), (125, 11482), (130, 11524), (133, 11545), (140, 11608), (144, 11650), (147, 11674), (151, 11686), (153, 11692), (157, 11737), (162, 11773), (176, 11917), (178, 11929), (188, 11992), (189, 11995), (190, 12016), (199, 12118), (213, 12289), (217, 12319), (223, 12349), (225, 12355), (257, 12508), (273, 12574), (276, 12580), (280, 12598), (281, 12604), (291, 12640), (299, 12688), (300, 12691), (305, 12712), (308, 12721), (316, 12748), (319, 12760), (330, 12826), (342, 12874), (368, 13003), (394, 13150), (419, 13237), (422, 13258), (448, 13399), (451, 13411), (471, 13504), (477, 13540), (488, 13621), (495, 13657), (503, 13717), (508, 13744), (509, 13747), (511, 13753), (516, 13765), (549, 13846), (555, 13861), (561, 13879), (586, 13939), (623, 14071), (638, 14161), (647, 14197), (652, 14212), (668, 14251), (674, 14272), (678, 14290), (682, 14323), (683, 14326), (722, 14503), (733, 14545), (736, 14557), (739, 14575), (751, 14623), (754, 14629), (770, 14716), (822, 14965), (834, 15037), (846, 15100), (848, 15106), (852, 15115), (855, 15124), (883, 15310), (889, 15409), (895, 15442), (897, 15451), (901, 15472), (923, 15604), (925, 15610), (931, 15658), (934, 15688), (937, 15703), (947, 15802),