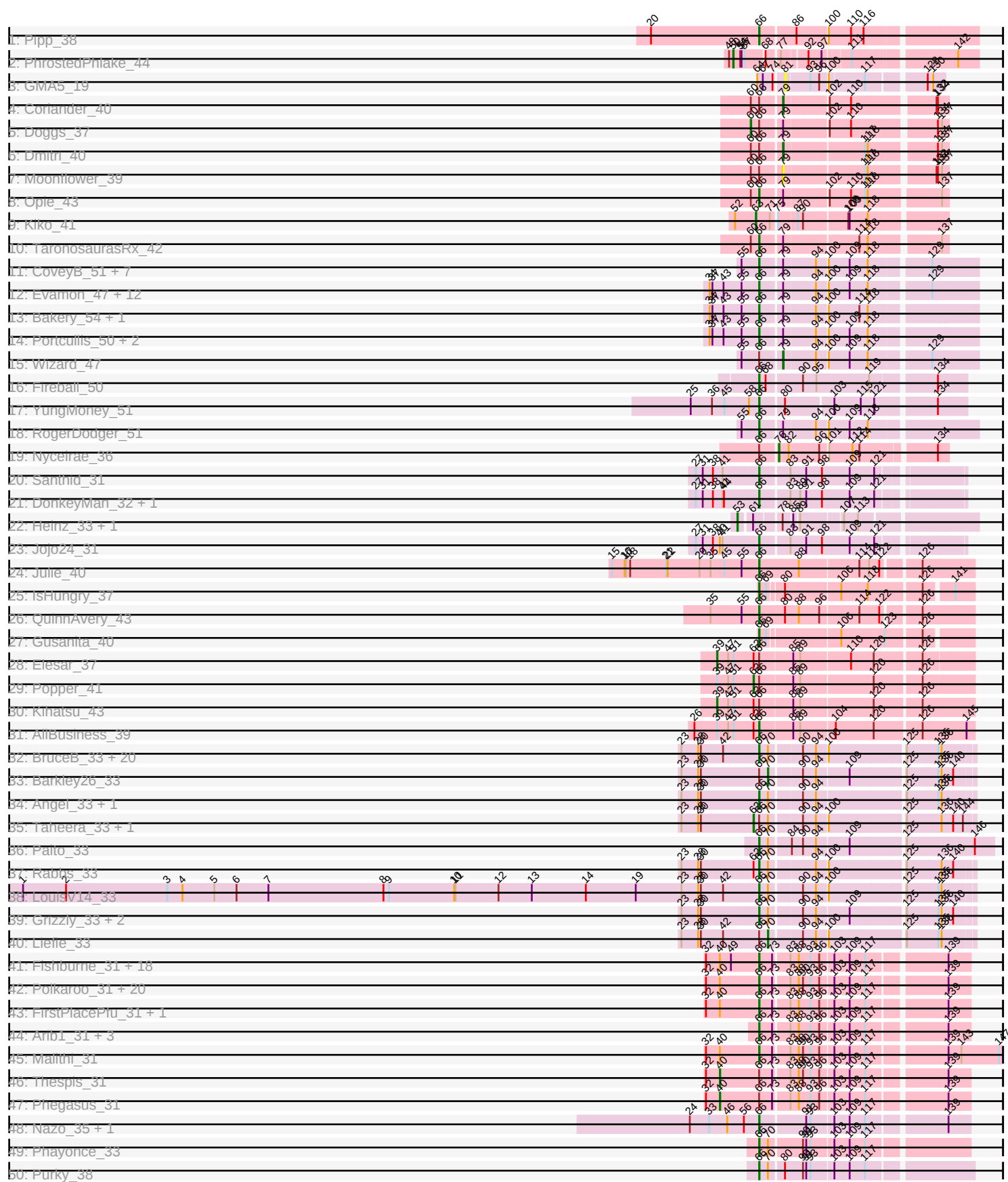




51: AuntGwenStacy_54 + 2	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142	144	146	148	150	152	154	156	158	160	162	164	166	168	170	172	174	176	178	180	182	184	186	188	190	192	194	196	198	200	202	204	206	208	210	212	214	216	218	220	222	224	226	228	230	232	234	236	238	240	242	244	246	248	250	252	254	256	258	260	262	264	266	268	270	272	274	276	278	280	282	284	286	288	290	292	294	296	298	300	302	304	306	308	310	312	314	316	318	320	322	324	326	328	330	332	334	336	338	340	342	344	346	348	350	352	354	356	358	360	362	364	366	368	370	372	374	376	378	380	382	384	386	388	390	392	394	396	398	400	402	404	406	408	410	412	414	416	418	420	422	424	426	428	430	432	434	436	438	440	442	444	446	448	450	452	454	456	458	460	462	464	466	468	470	472	474	476	478	480	482	484	486	488	490	492	494	496	498	500	502	504	506	508	510	512	514	516	518	520	522	524	526	528	530	532	534	536	538	540	542	544	546	548	550	552	554	556	558	560	562	564	566	568	570	572	574	576	578	580	582	584	586	588	590	592	594	596	598	600	602	604	606	608	610	612	614	616	618	620	622	624	626	628	630	632	634	636	638	640	642	644	646	648	650	652	654	656	658	660	662	664	666	668	670	672	674	676	678	680	682	684	686	688	690	692	694	696	698	700	702	704	706	708	710	712	714	716	718	720	722	724	726	728	730	732	734	736	738	740	742	744	746	748	750	752	754	756	758	760	762	764	766	768	770	772	774	776	778	780	782	784	786	788	790	792	794	796	798	800	802	804	806	808	810	812	814	816	818	820	822	824	826	828	830	832	834	836	838	840	842	844	846	848	850	852	854	856	858	860	862	864	866	868	870	872	874	876	878	880	882	884	886	888	890	892	894	896	898	900	902	904	906	908	910	912	914	916	918	920	922	924	926	928	930	932	934	936	938	940	942	944	946	948	950	952	954	956	958	960	962	964	966	968	970	972	974	976	978	980	982	984	986	988	990	992	994	996	998	1000
52: Faiyaz_54	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128																																																																																																																																																																																																																																																																																																																																																																																																																																																				

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 280168 Report

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

Pham number 280168 has 148 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Pipp_38
- Track 2 : PhrostedPhlake_44
- Track 3 : GMA5_19
- Track 4 : Coriander_40
- Track 5 : Doggs_37
- Track 6 : Dmitri_40
- Track 7 : Moonflower_39
- Track 8 : Opie_43
- Track 9 : Kiko_41
- Track 10 : TaronosaurusRx_42
- Track 11 : CoveyB_51, Valary_50, Mutzi_48, Jambalaya_48, Halo3_49, VanDeWege_51, Savbucketdawg_48, Gezellig_47
- Track 12 : Evamon_47, Phlop_47, Egi03_48, KimmyK_49, Togo_47, Fugax_51, Barb_50, ClamChowder_50, PullumCavea_47, SmokingBunny_48, Salvador_47, PinkCoffee_50, Nubi_48
- Track 13 : Bakery_54, Arri_51
- Track 14 : Portcullis_50, Danyall_50, Twister6_50
- Track 15 : Wizard_47
- Track 16 : Fireball_50
- Track 17 : YungMoney_51
- Track 18 : RogerDodger_51
- Track 19 : Nyceirae_36
- Track 20 : Santhid_31
- Track 21 : DonkeyMan_32, Tarzan_32
- Track 22 : Heinz_33, Hibiscus_33
- Track 23 : Jojo24_31
- Track 24 : Julie_40
- Track 25 : IsHungry_37
- Track 26 : QuinnAvery_43
- Track 27 : Gusanita_40
- Track 28 : Elesar_37
- Track 29 : Popper_41
- Track 30 : Kihatsu_43
- Track 31 : AllBusiness_39
- Track 32 : BruceB_33, Sweets_33, Halo_33, Annihilator_33, BPs_33, ShaboiShabazz_33, Jane_33, Aroostook_33, Hope_33, Mowgli_33, TomBrady_33, Chance64_33, Marmie_33, JorRay_33, Phreak_33, Periodt_33, Avrafan_33,

Jonghyun_33, Hotshotbaby7_33, Olga_33, Cherrybomb426_33

- Track 33 : Barkley26_33
- Track 34 : Angel_33, Plagueis_33
- Track 35 : Taheera_33, Terror_33
- Track 36 : Paito_33
- Track 37 : Rabbs_33
- Track 38 : LouisV14_33
- Track 39 : Grizzly_33, Kasen3_33, Sizemore_33
- Track 40 : Liefie_33
- Track 41 : Fishburne_31, Kari_31, Bartholomew_30, Venti_31, Dynamo_31, Langerak_31, Majeke_31, Mangethe_31, BronnyJr_31, Phineas_31, HUHilltop_31, Necropolis_31, Etoile_31, Donovan_31, Zilizebeth_31, Vidya_31, Chubbello_31, GaloreK_31, Techage_31
- Track 42 : Polkaroo_31, Brusacoram_31, Atcoo_31, Bhagsy_31, KilKor_31, Willsammy_30, Phalm_31, PeanutPie_31, Megiddo_31, StressBall_31, Ksquared_31, GreaseLightnin_31, StevieRay_31, Camster_31, Bunnies_31, Gavriela_31, Juniormint_31, Sonah_31, Jung_30, CactusJack_31, Glaske_31
- Track 43 : FirstPlacePfu_31, Jebeks_32
- Track 44 : Arib1_31, Shipwreck_33, Pygmy_33, Bogie_33
- Track 45 : Malithi_31
- Track 46 : Thespis_31
- Track 47 : Phegasus_31
- Track 48 : Nazo_35, BigNuz_34
- Track 49 : Phayonce_33
- Track 50 : Purky_38
- Track 51 : AuntGwenStacy_54, Typha_53, Hilltopfarm_53
- Track 52 : Faiyaz_54
- Track 53 : Cracklewink_51, Bipper_51
- Track 54 : Barebow_19

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

The start number called the most often in the published annotations is 66, it was called in 118 of the 138 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AllBusiness_39, Angel_33, Annihilator_33, Arib1_31, Aroostook_33, Arri_51, Atcoo_31, Avrafan_33, BPs_33, Bakery_54, Barb_50, Bartholomew_30, Bhagsy_31, BigNuz_34, Bipper_51, Bogie_33, BronnyJr_31, BruceB_33, Brusacoram_31, Bunnies_31, CactusJack_31, Camster_31, Chance64_33, Cherrybomb426_33, Chubbello_31, ClamChowder_50, CoveyB_51, Cracklewink_51, Danyall_50, DonkeyMan_32, Donovan_31, Dynamo_31, Egi03_48, Etoile_31, Evamon_47, Faiyaz_54, Fireball_50, FirstPlacePfu_31, Fishburne_31, Fugax_51, GaloreK_31, Gavriela_31, Gezellig_47, Glaske_31, GreaseLightnin_31, Grizzly_33, Gusanita_40, HUHilltop_31, Halo3_49, Halo_33, Hope_33, Hotshotbaby7_33, IsHungry_37, Jambalaya_48, Jane_33, Jebeks_32, Jojo24_31, Jonghyun_33, JorRay_33, Julie_40, Jung_30, Juniormint_31, Kari_31, Kasen3_33, KilKor_31, KimmyK_49, Ksquared_31, Langerak_31, LouisV14_33, Majeke_31, Malithi_31, Mangethe_31, Marmie_33, Megiddo_31, Mowgli_33, Mutzi_48, Nazo_35, Necropolis_31, Nubi_48, Olga_33, Opie_43, Paito_33, PeanutPie_31, Periodt_33, Phalm_31, Phayonce_33,

Phineas_31, Phlop_47, Phreak_33, PinkCoffee_50, Pipp_38, Plagueis_33, Polkaroo_31, Portcullis_50, PullumCavea_47, Purky_38, Pygmy_33, QuinnAvery_43, Rabbs_33, RogerDodger_51, Salvador_47, Santhid_31, Savbucketdawg_48, ShaboShabazz_33, Shipwreck_33, Sizemore_33, SmokingBunny_48, Sonah_31, StevieRay_31, StressBall_31, Sweets_33, TaronosaurusRx_42, Tarzan_32, Techage_31, Togo_47, TomBrady_33, Twister6_50, Valary_50, VanDeWege_51, Venti_31, Vidya_31, Willsammy_30, YungMoney_51, Zilizebeth_31,

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

- AuntGwenStacy_54, Barkley26_33, Coriander_40, Dmitri_40, Doggs_37, Elesar_37, Hilltopfarm_53, Kihatsu_43, Liefie_33, Moonflower_39, Nyceirae_36, Phegasus_31, Popper_41, Taheera_33, Terror_33, Thespis_31, Typha_53, Wizard_47,

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

- Barebow_19, GMA5_19, Heinz_33, Hibiscus_33, Kiko_41, PhrostedPhlake_44,

Summary by start number:

Start 39:

- Found in 4 of 148 (2.7%) of genes in pham
- Manual Annotations of this start: 2 of 138
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Elesar_37 (FF), Kihatsu_43 (FF),

Start 40:

- Found in 46 of 148 (31.1%) of genes in pham
- Manual Annotations of this start: 2 of 138
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Phegasus_31 (P1), Thespis_31 (P1),

Start 50:

- Found in 1 of 148 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 138
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PhrostedPhlake_44 (CV),

Start 53:

- Found in 2 of 148 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 138
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Heinz_33 (DY), Hibiscus_33 (DY),

Start 59:

- Found in 4 of 148 (2.7%) of genes in pham
- Manual Annotations of this start: 2 of 138
- Called 75.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_54 (Y), Hilltopfarm_53 (Y), Typha_53 (Y),

Start 60:

- Found in 6 of 148 (4.1%) of genes in pham
- Manual Annotations of this start: 1 of 138
- Called 16.7% of time when present

- Phage (with cluster) where this start called: Doggs_37 (DB),

Start 62:

- Found in 7 of 148 (4.7%) of genes in pham
- Manual Annotations of this start: 3 of 138
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Popper_41 (FF), Taheera_33 (G1), Terror_33 (G1),

Start 63:

- Found in 2 of 148 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 138
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barebow_19 (singleton), Kiko_41 (DB),

Start 66:

- Found in 142 of 148 (95.9%) of genes in pham
- Manual Annotations of this start: 118 of 138
- Called 87.3% of time when present
- Phage (with cluster) where this start called: AllBusiness_39 (FF), Angel_33 (G1), Annihilator_33 (G1), Arib1_31 (P1), Aroostook_33 (G1), Arri_51 (DC1), Atcoo_31 (P1), Avrafan_33 (G1), BPs_33 (G1), Bakery_54 (DC1), Barb_50 (DC1), Bartholomew_30 (P1), Bhagsy_31 (P1), BigNuz_34 (P4), Bipper_51 (Y), Bogie_33 (P1), BronnyJr_31 (P1), BruceB_33 (G1), Brusacoram_31 (P1), Bunnies_31 (P1), CactusJack_31 (P1), Camster_31 (P1), Chance64_33 (G1), Cherrybomb426_33 (G1), Chubbello_31 (P1), ClamChowder_50 (DC1), CoveyB_51 (DC1), Cracklewink_51 (Y), Danyall_50 (DC1), DonkeyMan_32 (DY), Donovan_31 (P1), Dynamo_31 (P1), Egi03_48 (DC1), Etoile_31 (P1), Evamon_47 (DC1), Faiyaz_54 (Y), Fireball_50 (DC1), FirstPlacePfu_31 (P1), Fishburne_31 (P1), Fugax_51 (DC1), GaloreK_31 (P1), Gavriela_31 (P1), Gezellig_47 (DC1), Glaske_31 (P1), GreaseLightnin_31 (P1), Grizzly_33 (G1), Gusanita_40 (FF), HUHilltop_31 (P1), Halo3_49 (DC1), Halo_33 (G1), Hope_33 (G1), Hotshotbaby7_33 (G1), IsHungry_37 (FF), Jambalaya_48 (DC1), Jane_33 (G1), Jebeks_32 (P1), Jojo24_31 (DY), Jonghyun_33 (G1), JorRay_33 (G1), Julie_40 (FF), Jung_30 (P1), Juniormint_31 (P1), Kari_31 (P1), Kasen3_33 (G1), KilKor_31 (P1), KimmyK_49 (DC1), Ksquared_31 (P1), Langerak_31 (P1), LouisV14_33 (G1), Majeke_31 (P1), Malithi_31 (P1), Mangethe_31 (P1), Marmie_33 (G1), Megiddo_31 (P1), Mowgli_33 (G1), Mutzi_48 (DC1), Nazo_35 (P4), Necropolis_31 (P1), Nubi_48 (DC1), Olga_33 (G1), Opie_43 (DB), Paito_33 (G1), PeanutPie_31 (P1), Periodt_33 (G1), Phalm_31 (P1), Phayonce_33 (P5), Phineas_31 (P1), Phlop_47 (DC1), Phreak_33 (G1), PinkCoffee_50 (DC1), Pipp_38 (CV), Plagueis_33 (G1), Polkaroo_31 (P1), Portcullis_50 (DC1), PullumCavea_47 (DC1), Purky_38 (P6), Pygmy_33 (P1), QuinnAvery_43 (FF), Rabbs_33 (G1), RogerDodger_51 (DC1), Salvador_47 (DC1), Santhid_31 (DY), Savbucketdawg_48 (DC1), ShaboShabazz_33 (G1), Shipwreck_33 (P1), Sizemore_33 (G1), SmokingBunny_48 (DC1), Sonah_31 (P1), StevieRay_31 (P1), StressBall_31 (P1), Sweets_33 (G1), TaronosaurusRx_42 (DB), Tarzan_32 (DY), Techage_31 (P1), Togo_47 (DC1), TomBrady_33 (G1), Twister6_50 (DC1), Valary_50 (DC1), VanDeWege_51 (DC1), Venti_31 (P1), Vidya_31 (P1), Willsammy_30 (P1), YungMoney_51 (DC1), Zilizebeth_31 (P1),

Start 70:

- Found in 35 of 148 (23.6%) of genes in pham
- Manual Annotations of this start: 2 of 138

- Called 5.7% of time when present
- Phage (with cluster) where this start called: Barkley26_33 (G1), Liefie_33 (G1),

Start 76:

- Found in 1 of 148 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 138
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nyceirae_36 (DT),

Start 79:

- Found in 34 of 148 (23.0%) of genes in pham
- Manual Annotations of this start: 3 of 138
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Coriander_40 (DB), Dmitri_40 (DB), Moonflower_39 (DB), Wizard_47 (DC1),

Start 81:

- Found in 1 of 148 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA5_19 (CW2),

Summary by clusters:

There are 14 clusters represented in this pham: singleton, P1, P6, P4, G1, P5, CW2, DB, FF, DY, Y, DT, CV, DC1,

Info for manual annotations of cluster CV:

- Start number 50 was manually annotated 1 time for cluster CV.
- Start number 66 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DB:

- Start number 60 was manually annotated 1 time for cluster DB.
- Start number 63 was manually annotated 1 time for cluster DB.
- Start number 66 was manually annotated 2 times for cluster DB.
- Start number 79 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 66 was manually annotated 29 times for cluster DC1.
- Start number 79 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DT:

- Start number 76 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DY:

- Start number 53 was manually annotated 1 time for cluster DY.
- Start number 66 was manually annotated 4 times for cluster DY.

Info for manual annotations of cluster FF:

- Start number 39 was manually annotated 2 times for cluster FF.
- Start number 62 was manually annotated 1 time for cluster FF.
- Start number 66 was manually annotated 5 times for cluster FF.

Info for manual annotations of cluster G1:

- Start number 62 was manually annotated 2 times for cluster G1.
- Start number 66 was manually annotated 29 times for cluster G1.
- Start number 70 was manually annotated 2 times for cluster G1.

Info for manual annotations of cluster P1:

- Start number 40 was manually annotated 2 times for cluster P1.
- Start number 66 was manually annotated 41 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 66 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 66 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:

- Start number 66 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Y:

- Start number 59 was manually annotated 2 times for cluster Y.
- Start number 66 was manually annotated 3 times for cluster Y.

Gene Information:

Gene: AllBusiness_39 Start: 31045, Stop: 30608, Start Num: 66

Candidate Starts for AllBusiness_39:

(26, 31183), (Start: 39 @31135 has 2 MA's), (47, 31111), (51, 31099), (Start: 62 @31057 has 3 MA's), (Start: 66 @31045 has 118 MA's), (85, 30976), (89, 30961), (104, 30892), (120, 30811), (126, 30718), (145, 30625),

Gene: Angel_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Angel_33:

(23, 29489), (28, 29453), (30, 29447), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (125, 29048), (135, 28985), (136, 28979),

Gene: Annihilator_33 Start: 29315, Stop: 28905, Start Num: 66

Candidate Starts for Annihilator_33:

(23, 29480), (28, 29444), (30, 29438), (42, 29390), (Start: 66 @29315 has 118 MA's), (Start: 70 @29297 has 2 MA's), (90, 29234), (94, 29207), (100, 29186), (125, 29039), (135, 28976), (136, 28970),

Gene: Arib1_31 Start: 27353, Stop: 26952, Start Num: 66

Candidate Starts for Arib1_31:

(Start: 66 @27353 has 118 MA's), (73, 27326), (83, 27296), (88, 27278), (93, 27254), (96, 27236), (103, 27209), (109, 27176), (117, 27146), (139, 26996),

Gene: Aroostook_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Aroostook_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136,

28979),

Gene: Arri_51 Start: 39948, Stop: 39535, Start Num: 66

Candidate Starts for Arri_51:

(34, 40053), (37, 40047), (43, 40023), (55, 39984), (Start: 66 @39948 has 118 MA's), (Start: 79 @39906 has 3 MA's), (94, 39840), (100, 39819), (114, 39759), (118, 39741),

Gene: Atcoo_31 Start: 27834, Stop: 27433, Start Num: 66

Candidate Starts for Atcoo_31:

(32, 27945), (Start: 40 @27915 has 2 MA's), (Start: 66 @27834 has 118 MA's), (73, 27807), (83, 27777), (88, 27759), (90, 27750), (93, 27735), (96, 27717), (103, 27690), (109, 27657), (117, 27627), (139, 27477),

Gene: AuntGwenStacy_54 Start: 41198, Stop: 40797, Start Num: 59

Candidate Starts for AuntGwenStacy_54:

(Start: 59 @41198 has 2 MA's), (Start: 66 @41177 has 118 MA's), (82, 41123), (94, 41069), (105, 41027), (114, 40988), (117, 40976), (125, 40901), (131, 40847), (133, 40841),

Gene: Avrafan_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Avrafan_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: BPs_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for BPs_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Bakery_54 Start: 41089, Stop: 40676, Start Num: 66

Candidate Starts for Bakery_54:

(34, 41194), (37, 41188), (43, 41164), (55, 41125), (Start: 66 @41089 has 118 MA's), (Start: 79 @41047 has 3 MA's), (94, 40981), (100, 40960), (114, 40900), (118, 40882),

Gene: Barb_50 Start: 40067, Stop: 39654, Start Num: 66

Candidate Starts for Barb_50:

(34, 40172), (37, 40166), (43, 40142), (55, 40103), (Start: 66 @40067 has 118 MA's), (Start: 79 @40025 has 3 MA's), (94, 39959), (100, 39938), (109, 39896), (118, 39860), (129, 39752),

Gene: Barebow_19 Start: 15697, Stop: 15296, Start Num: 63

Candidate Starts for Barebow_19:

(Start: 63 @15697 has 2 MA's), (65, 15691), (72, 15664), (78, 15649), (112, 15514), (117, 15490), (125, 15403), (138, 15319),

Gene: Barkley26_33 Start: 29328, Stop: 28936, Start Num: 70

Candidate Starts for Barkley26_33:

(23, 29511), (28, 29475), (30, 29469), (Start: 66 @29346 has 118 MA's), (Start: 70 @29328 has 2 MA's), (90, 29265), (94, 29238), (109, 29175), (125, 29070), (135, 29007), (136, 29001), (140, 28977),

Gene: Bartholomew_30 Start: 27347, Stop: 26946, Start Num: 66

Candidate Starts for Bartholomew_30:

(32, 27458), (Start: 40 @27428 has 2 MA's), (49, 27404), (Start: 66 @27347 has 118 MA's), (73, 27320), (83, 27290), (88, 27272), (93, 27248), (96, 27230), (103, 27203), (109, 27170), (117, 27140), (139, 26990),

Gene: Bhagsy_31 Start: 27343, Stop: 26942, Start Num: 66

Candidate Starts for Bhagsy_31:

(32, 27454), (Start: 40 @27424 has 2 MA's), (Start: 66 @27343 has 118 MA's), (73, 27316), (83, 27286), (88, 27268), (90, 27259), (93, 27244), (96, 27226), (103, 27199), (109, 27166), (117, 27136), (139, 26986),

Gene: BigNuz_34 Start: 29474, Stop: 29073, Start Num: 66

Candidate Starts for BigNuz_34:

(24, 29621), (33, 29579), (46, 29540), (56, 29504), (Start: 66 @29474 has 118 MA's), (91, 29384), (93, 29375), (103, 29330), (109, 29297), (117, 29267), (139, 29117),

Gene: Bipper_51 Start: 39965, Stop: 39576, Start Num: 66

Candidate Starts for Bipper_51:

(Start: 66 @39965 has 118 MA's), (94, 39857), (96, 39851), (99, 39839), (100, 39836), (105, 39815), (108, 39797), (114, 39776), (117, 39764), (124, 39701), (127, 39662), (133, 39641), (135, 39638),

Gene: Bogie_33 Start: 29130, Stop: 28729, Start Num: 66

Candidate Starts for Bogie_33:

(Start: 66 @29130 has 118 MA's), (73, 29103), (83, 29073), (88, 29055), (93, 29031), (96, 29013), (103, 28986), (109, 28953), (117, 28923), (139, 28773),

Gene: BronnyJr_31 Start: 27844, Stop: 27443, Start Num: 66

Candidate Starts for BronnyJr_31:

(32, 27955), (Start: 40 @27925 has 2 MA's), (49, 27901), (Start: 66 @27844 has 118 MA's), (73, 27817), (83, 27787), (88, 27769), (93, 27745), (96, 27727), (103, 27700), (109, 27667), (117, 27637), (139, 27487),

Gene: BruceB_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for BruceB_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Brusacoram_31 Start: 27340, Stop: 26939, Start Num: 66

Candidate Starts for Brusacoram_31:

(32, 27451), (Start: 40 @27421 has 2 MA's), (Start: 66 @27340 has 118 MA's), (73, 27313), (83, 27283), (88, 27265), (90, 27256), (93, 27241), (96, 27223), (103, 27196), (109, 27163), (117, 27133), (139, 26983),

Gene: Bunnies_31 Start: 27361, Stop: 26960, Start Num: 66

Candidate Starts for Bunnies_31:

(32, 27472), (Start: 40 @27442 has 2 MA's), (Start: 66 @27361 has 118 MA's), (73, 27334), (83, 27304), (88, 27286), (90, 27277), (93, 27262), (96, 27244), (103, 27217), (109, 27184), (117, 27154), (139, 27004),

Gene: CactusJack_31 Start: 27604, Stop: 27203, Start Num: 66

Candidate Starts for CactusJack_31:

(32, 27715), (Start: 40 @27685 has 2 MA's), (Start: 66 @27604 has 118 MA's), (73, 27577), (83, 27547), (88, 27529), (90, 27520), (93, 27505), (96, 27487), (103, 27460), (109, 27427), (117, 27397),

(139, 27247),

Gene: Camster_31 Start: 27377, Stop: 26976, Start Num: 66

Candidate Starts for Camster_31:

(32, 27488), (Start: 40 @27458 has 2 MA's), (Start: 66 @27377 has 118 MA's), (73, 27350), (83, 27320), (88, 27302), (90, 27293), (93, 27278), (96, 27260), (103, 27233), (109, 27200), (117, 27170), (139, 27020),

Gene: Chance64_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Chance64_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Cherrybomb426_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Cherrybomb426_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Chubbello_31 Start: 27346, Stop: 26945, Start Num: 66

Candidate Starts for Chubbello_31:

(32, 27457), (Start: 40 @27427 has 2 MA's), (49, 27403), (Start: 66 @27346 has 118 MA's), (73, 27319), (83, 27289), (88, 27271), (93, 27247), (96, 27229), (103, 27202), (109, 27169), (117, 27139), (139, 26989),

Gene: ClamChowder_50 Start: 40067, Stop: 39654, Start Num: 66

Candidate Starts for ClamChowder_50:

(34, 40172), (37, 40166), (43, 40142), (55, 40103), (Start: 66 @40067 has 118 MA's), (Start: 79 @40025 has 3 MA's), (94, 39959), (100, 39938), (109, 39896), (118, 39860), (129, 39752),

Gene: Coriander_40 Start: 31779, Stop: 31459, Start Num: 79

Candidate Starts for Coriander_40:

(Start: 60 @31839 has 1 MA's), (Start: 66 @31821 has 118 MA's), (Start: 79 @31779 has 3 MA's), (102, 31692), (110, 31647), (132, 31485), (134, 31482),

Gene: CoveyB_51 Start: 39766, Stop: 39353, Start Num: 66

Candidate Starts for CoveyB_51:

(55, 39802), (Start: 66 @39766 has 118 MA's), (Start: 79 @39724 has 3 MA's), (94, 39658), (100, 39637), (109, 39595), (118, 39559), (129, 39451),

Gene: Cracklewink_51 Start: 39958, Stop: 39569, Start Num: 66

Candidate Starts for Cracklewink_51:

(Start: 66 @39958 has 118 MA's), (94, 39850), (96, 39844), (99, 39832), (100, 39829), (105, 39808), (108, 39790), (114, 39769), (117, 39757), (124, 39694), (127, 39655), (133, 39634), (135, 39631),

Gene: Danyall_50 Start: 39768, Stop: 39355, Start Num: 66

Candidate Starts for Danyall_50:

(34, 39873), (37, 39867), (43, 39843), (55, 39804), (Start: 66 @39768 has 118 MA's), (Start: 79 @39726 has 3 MA's), (94, 39660), (100, 39639), (109, 39597), (118, 39561),

Gene: Dmitri_40 Start: 33369, Stop: 33049, Start Num: 79

Candidate Starts for Dmitri_40:

(Start: 60 @33429 has 1 MA's), (Start: 66 @33411 has 118 MA's), (Start: 79 @33369 has 3 MA's),
(117, 33210), (118, 33204), (134, 33072), (137, 33063),

Gene: Doggs_37 Start: 32568, Stop: 32188, Start Num: 60

Candidate Starts for Doggs_37:

(Start: 60 @32568 has 1 MA's), (Start: 66 @32550 has 118 MA's), (Start: 79 @32508 has 3 MA's),
(102, 32421), (110, 32376), (134, 32211), (137, 32202),

Gene: DonkeyMan_32 Start: 27574, Stop: 27185, Start Num: 66

Candidate Starts for DonkeyMan_32:

(27, 27706), (31, 27691), (38, 27670), (41, 27649), (44, 27646), (Start: 66 @27574 has 118 MA's), (83,
27517), (89, 27496), (91, 27484), (98, 27451), (109, 27391), (121, 27340),

Gene: Donovan_31 Start: 27369, Stop: 26968, Start Num: 66

Candidate Starts for Donovan_31:

(32, 27480), (Start: 40 @27450 has 2 MA's), (49, 27426), (Start: 66 @27369 has 118 MA's), (73,
27342), (83, 27312), (88, 27294), (93, 27270), (96, 27252), (103, 27225), (109, 27192), (117, 27162),
(139, 27012),

Gene: Dynamo_31 Start: 27758, Stop: 27357, Start Num: 66

Candidate Starts for Dynamo_31:

(32, 27869), (Start: 40 @27839 has 2 MA's), (49, 27815), (Start: 66 @27758 has 118 MA's), (73,
27731), (83, 27701), (88, 27683), (93, 27659), (96, 27641), (103, 27614), (109, 27581), (117, 27551),
(139, 27401),

Gene: Egi03_48 Start: 39548, Stop: 39135, Start Num: 66

Candidate Starts for Egi03_48:

(34, 39653), (37, 39647), (43, 39623), (55, 39584), (Start: 66 @39548 has 118 MA's), (Start: 79
@39506 has 3 MA's), (94, 39440), (100, 39419), (109, 39377), (118, 39341), (129, 39233),

Gene: Elesar_37 Start: 30914, Stop: 30393, Start Num: 39

Candidate Starts for Elesar_37:

(Start: 39 @30914 has 2 MA's), (47, 30890), (51, 30878), (Start: 62 @30836 has 3 MA's), (Start: 66
@30824 has 118 MA's), (85, 30755), (89, 30740), (110, 30638), (120, 30590), (126, 30497),

Gene: Etoile_31 Start: 27347, Stop: 26946, Start Num: 66

Candidate Starts for Etoile_31:

(32, 27458), (Start: 40 @27428 has 2 MA's), (49, 27404), (Start: 66 @27347 has 118 MA's), (73,
27320), (83, 27290), (88, 27272), (93, 27248), (96, 27230), (103, 27203), (109, 27170), (117, 27140),
(139, 26990),

Gene: Evamon_47 Start: 39787, Stop: 39374, Start Num: 66

Candidate Starts for Evamon_47:

(34, 39892), (37, 39886), (43, 39862), (55, 39823), (Start: 66 @39787 has 118 MA's), (Start: 79
@39745 has 3 MA's), (94, 39679), (100, 39658), (109, 39616), (118, 39580), (129, 39472),

Gene: Faiyaz_54 Start: 41165, Stop: 40785, Start Num: 66

Candidate Starts for Faiyaz_54:

(Start: 59 @41186 has 2 MA's), (Start: 66 @41165 has 118 MA's), (82, 41111), (94, 41057), (105,
41015), (114, 40976), (117, 40964), (125, 40889), (131, 40835), (133, 40829),

Gene: Fireball_50 Start: 40315, Stop: 39920, Start Num: 66

Candidate Starts for Fireball_50:

(Start: 66 @40315 has 118 MA's), (68, 40303), (90, 40231), (95, 40204), (119, 40102), (134, 39979),

Gene: FirstPlacePfu_31 Start: 27379, Stop: 26978, Start Num: 66

Candidate Starts for FirstPlacePfu_31:

(32, 27490), (Start: 40 @27460 has 2 MA's), (Start: 66 @27379 has 118 MA's), (73, 27352), (83, 27322), (88, 27304), (93, 27280), (96, 27262), (103, 27235), (109, 27202), (117, 27172), (139, 27022),

Gene: Fishburne_31 Start: 27347, Stop: 26946, Start Num: 66

Candidate Starts for Fishburne_31:

(32, 27458), (Start: 40 @27428 has 2 MA's), (49, 27404), (Start: 66 @27347 has 118 MA's), (73, 27320), (83, 27290), (88, 27272), (93, 27248), (96, 27230), (103, 27203), (109, 27170), (117, 27140), (139, 26990),

Gene: Fugax_51 Start: 40059, Stop: 39646, Start Num: 66

Candidate Starts for Fugax_51:

(34, 40164), (37, 40158), (43, 40134), (55, 40095), (Start: 66 @40059 has 118 MA's), (Start: 79 @40017 has 3 MA's), (94, 39951), (100, 39930), (109, 39888), (118, 39852), (129, 39744),

Gene: GMA5_19 Start: 14633, Stop: 14346, Start Num: 81

Candidate Starts for GMA5_19:

(64, 14684), (67, 14672), (74, 14651), (81, 14633), (93, 14591), (96, 14573), (100, 14558), (117, 14486), (128, 14381), (130, 14369),

Gene: GaloreK_31 Start: 27343, Stop: 26942, Start Num: 66

Candidate Starts for GaloreK_31:

(32, 27454), (Start: 40 @27424 has 2 MA's), (49, 27400), (Start: 66 @27343 has 118 MA's), (73, 27316), (83, 27286), (88, 27268), (93, 27244), (96, 27226), (103, 27199), (109, 27166), (117, 27136), (139, 26986),

Gene: Gavriela_31 Start: 27604, Stop: 27203, Start Num: 66

Candidate Starts for Gavriela_31:

(32, 27715), (Start: 40 @27685 has 2 MA's), (Start: 66 @27604 has 118 MA's), (73, 27577), (83, 27547), (88, 27529), (90, 27520), (93, 27505), (96, 27487), (103, 27460), (109, 27427), (117, 27397), (139, 27247),

Gene: Gezellig_47 Start: 39919, Stop: 39506, Start Num: 66

Candidate Starts for Gezellig_47:

(55, 39955), (Start: 66 @39919 has 118 MA's), (Start: 79 @39877 has 3 MA's), (94, 39811), (100, 39790), (109, 39748), (118, 39712), (129, 39604),

Gene: Glaske_31 Start: 27604, Stop: 27203, Start Num: 66

Candidate Starts for Glaske_31:

(32, 27715), (Start: 40 @27685 has 2 MA's), (Start: 66 @27604 has 118 MA's), (73, 27577), (83, 27547), (88, 27529), (90, 27520), (93, 27505), (96, 27487), (103, 27460), (109, 27427), (117, 27397), (139, 27247),

Gene: GreaseLightnin_31 Start: 27596, Stop: 27195, Start Num: 66

Candidate Starts for GreaseLightnin_31:

(32, 27707), (Start: 40 @27677 has 2 MA's), (Start: 66 @27596 has 118 MA's), (73, 27569), (83, 27539), (88, 27521), (90, 27512), (93, 27497), (96, 27479), (103, 27452), (109, 27419), (117, 27389), (139, 27239),

Gene: Grizzly_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Grizzly_33:

(23, 29489), (28, 29453), (30, 29447), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (109, 29153), (125, 29048), (135, 28985), (136, 28979), (140, 28955),

Gene: Gusanita_40 Start: 30510, Stop: 30103, Start Num: 66

Candidate Starts for Gusanita_40:

(Start: 66 @30510 has 118 MA's), (69, 30495), (106, 30354), (123, 30270), (126, 30201),

Gene: HUHilltop_31 Start: 27380, Stop: 26979, Start Num: 66

Candidate Starts for HUHilltop_31:

(32, 27491), (Start: 40 @27461 has 2 MA's), (49, 27437), (Start: 66 @27380 has 118 MA's), (73, 27353), (83, 27323), (88, 27305), (93, 27281), (96, 27263), (103, 27236), (109, 27203), (117, 27173), (139, 27023),

Gene: Halo_33 Start: 29319, Stop: 28909, Start Num: 66

Candidate Starts for Halo_33:

(23, 29484), (28, 29448), (30, 29442), (42, 29394), (Start: 66 @29319 has 118 MA's), (Start: 70 @29301 has 2 MA's), (90, 29238), (94, 29211), (100, 29190), (125, 29043), (135, 28980), (136, 28974),

Gene: Halo3_49 Start: 40504, Stop: 40091, Start Num: 66

Candidate Starts for Halo3_49:

(55, 40540), (Start: 66 @40504 has 118 MA's), (Start: 79 @40462 has 3 MA's), (94, 40396), (100, 40375), (109, 40333), (118, 40297), (129, 40189),

Gene: Heinz_33 Start: 25504, Stop: 25082, Start Num: 53

Candidate Starts for Heinz_33:

(Start: 53 @25504 has 1 MA's), (61, 25480), (78, 25432), (85, 25417), (89, 25408), (107, 25330), (113, 25303),

Gene: Hibiscus_33 Start: 25453, Stop: 25031, Start Num: 53

Candidate Starts for Hibiscus_33:

(Start: 53 @25453 has 1 MA's), (61, 25429), (78, 25381), (85, 25366), (89, 25357), (107, 25279), (113, 25252),

Gene: Hilltopfarm_53 Start: 40885, Stop: 40484, Start Num: 59

Candidate Starts for Hilltopfarm_53:

(Start: 59 @40885 has 2 MA's), (Start: 66 @40864 has 118 MA's), (82, 40810), (94, 40756), (105, 40714), (114, 40675), (117, 40663), (125, 40588), (131, 40534), (133, 40528),

Gene: Hope_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Hope_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Hotshotbaby7_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Hotshotbaby7_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: IsHungry_37 Start: 28697, Stop: 28293, Start Num: 66

Candidate Starts for IsHungry_37:

(Start: 66 @28697 has 118 MA's), (69, 28682), (80, 28655), (106, 28541), (118, 28490), (126, 28388), (141, 28334),

Gene: Jambalaya_48 Start: 39566, Stop: 39153, Start Num: 66

Candidate Starts for Jambalaya_48:

(55, 39602), (Start: 66 @39566 has 118 MA's), (Start: 79 @39524 has 3 MA's), (94, 39458), (100, 39437), (109, 39395), (118, 39359), (129, 39251),

Gene: Jane_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Jane_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Jebeks_32 Start: 27332, Stop: 26931, Start Num: 66

Candidate Starts for Jebeks_32:

(32, 27443), (Start: 40 @27413 has 2 MA's), (Start: 66 @27332 has 118 MA's), (73, 27305), (83, 27275), (88, 27257), (93, 27233), (96, 27215), (103, 27188), (109, 27155), (117, 27125), (139, 26975),

Gene: Jojo24_31 Start: 26167, Stop: 25778, Start Num: 66

Candidate Starts for Jojo24_31:

(27, 26299), (31, 26284), (38, 26263), (Start: 40 @26248 has 2 MA's), (41, 26242), (Start: 66 @26167 has 118 MA's), (83, 26110), (91, 26077), (98, 26044), (109, 25984), (121, 25933),

Gene: Jonghyun_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Jonghyun_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: JorRay_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for JorRay_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Julie_40 Start: 30481, Stop: 30059, Start Num: 66

Candidate Starts for Julie_40:

(15, 30796), (16, 30769), (17, 30766), (18, 30757), (21, 30679), (22, 30676), (29, 30607), (35, 30583), (45, 30553), (55, 30517), (Start: 66 @30481 has 118 MA's), (88, 30397), (114, 30274), (119, 30253), (122, 30235), (126, 30169),

Gene: Jung_30 Start: 27311, Stop: 26910, Start Num: 66

Candidate Starts for Jung_30:

(32, 27422), (Start: 40 @27392 has 2 MA's), (Start: 66 @27311 has 118 MA's), (73, 27284), (83, 27254), (88, 27236), (90, 27227), (93, 27212), (96, 27194), (103, 27167), (109, 27134), (117, 27104), (139, 26954),

Gene: Juniormint_31 Start: 27383, Stop: 26982, Start Num: 66

Candidate Starts for Juniormint_31:

(32, 27494), (Start: 40 @27464 has 2 MA's), (Start: 66 @27383 has 118 MA's), (73, 27356), (83, 27326), (88, 27308), (90, 27299), (93, 27284), (96, 27266), (103, 27239), (109, 27206), (117, 27176),

(139, 27026),

Gene: Kari_31 Start: 27344, Stop: 26943, Start Num: 66

Candidate Starts for Kari_31:

(32, 27455), (Start: 40 @27425 has 2 MA's), (49, 27401), (Start: 66 @27344 has 118 MA's), (73, 27317), (83, 27287), (88, 27269), (93, 27245), (96, 27227), (103, 27200), (109, 27167), (117, 27137), (139, 26987),

Gene: Kasen3_33 Start: 29325, Stop: 28915, Start Num: 66

Candidate Starts for Kasen3_33:

(23, 29490), (28, 29454), (30, 29448), (Start: 66 @29325 has 118 MA's), (Start: 70 @29307 has 2 MA's), (90, 29244), (94, 29217), (109, 29154), (125, 29049), (135, 28986), (136, 28980), (140, 28956),

Gene: Kihatsu_43 Start: 31043, Stop: 30516, Start Num: 39

Candidate Starts for Kihatsu_43:

(Start: 39 @31043 has 2 MA's), (47, 31019), (51, 31007), (Start: 62 @30965 has 3 MA's), (Start: 66 @30953 has 118 MA's), (85, 30884), (89, 30869), (120, 30719), (126, 30626),

Gene: Kiko_41 Start: 32143, Stop: 31775, Start Num: 63

Candidate Starts for Kiko_41:

(52, 32188), (Start: 63 @32143 has 2 MA's), (71, 32113), (75, 32104), (87, 32065), (90, 32056), (108, 31969), (109, 31966), (118, 31930),

Gene: KilKor_31 Start: 27604, Stop: 27203, Start Num: 66

Candidate Starts for KilKor_31:

(32, 27715), (Start: 40 @27685 has 2 MA's), (Start: 66 @27604 has 118 MA's), (73, 27577), (83, 27547), (88, 27529), (90, 27520), (93, 27505), (96, 27487), (103, 27460), (109, 27427), (117, 27397), (139, 27247),

Gene: KimmyK_49 Start: 40501, Stop: 40088, Start Num: 66

Candidate Starts for KimmyK_49:

(34, 40606), (37, 40600), (43, 40576), (55, 40537), (Start: 66 @40501 has 118 MA's), (Start: 79 @40459 has 3 MA's), (94, 40393), (100, 40372), (109, 40330), (118, 40294), (129, 40186),

Gene: Ksquared_31 Start: 27361, Stop: 26960, Start Num: 66

Candidate Starts for Ksquared_31:

(32, 27472), (Start: 40 @27442 has 2 MA's), (Start: 66 @27361 has 118 MA's), (73, 27334), (83, 27304), (88, 27286), (90, 27277), (93, 27262), (96, 27244), (103, 27217), (109, 27184), (117, 27154), (139, 27004),

Gene: Langerak_31 Start: 27363, Stop: 26962, Start Num: 66

Candidate Starts for Langerak_31:

(32, 27474), (Start: 40 @27444 has 2 MA's), (49, 27420), (Start: 66 @27363 has 118 MA's), (73, 27336), (83, 27306), (88, 27288), (93, 27264), (96, 27246), (103, 27219), (109, 27186), (117, 27156), (139, 27006),

Gene: Liefie_33 Start: 29304, Stop: 28912, Start Num: 70

Candidate Starts for Liefie_33:

(23, 29487), (28, 29451), (30, 29445), (42, 29397), (Start: 66 @29322 has 118 MA's), (Start: 70 @29304 has 2 MA's), (90, 29241), (94, 29214), (100, 29193), (125, 29046), (135, 28983), (136, 28977),

Gene: LouisV14_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for LouisV14_33:

(1, 30914), (2, 30821), (3, 30602), (4, 30569), (5, 30500), (6, 30452), (7, 30383), (8, 30134), (9, 30122), (10, 29981), (11, 29978), (12, 29885), (13, 29813), (14, 29696), (19, 29588), (23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Majeke_31 Start: 27385, Stop: 26984, Start Num: 66

Candidate Starts for Majeke_31:

(32, 27496), (Start: 40 @27466 has 2 MA's), (49, 27442), (Start: 66 @27385 has 118 MA's), (73, 27358), (83, 27328), (88, 27310), (93, 27286), (96, 27268), (103, 27241), (109, 27208), (117, 27178), (139, 27028),

Gene: Malithi_31 Start: 27270, Stop: 26800, Start Num: 66

Candidate Starts for Malithi_31:

(32, 27381), (Start: 40 @27351 has 2 MA's), (Start: 66 @27270 has 118 MA's), (73, 27243), (83, 27213), (88, 27195), (90, 27186), (93, 27171), (96, 27153), (103, 27126), (109, 27093), (117, 27063), (139, 26913), (143, 26886), (147, 26808),

Gene: Mangethe_31 Start: 27385, Stop: 26984, Start Num: 66

Candidate Starts for Mangethe_31:

(32, 27496), (Start: 40 @27466 has 2 MA's), (49, 27442), (Start: 66 @27385 has 118 MA's), (73, 27358), (83, 27328), (88, 27310), (93, 27286), (96, 27268), (103, 27241), (109, 27208), (117, 27178), (139, 27028),

Gene: Marmie_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Marmie_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Megiddo_31 Start: 27604, Stop: 27203, Start Num: 66

Candidate Starts for Megiddo_31:

(32, 27715), (Start: 40 @27685 has 2 MA's), (Start: 66 @27604 has 118 MA's), (73, 27577), (83, 27547), (88, 27529), (90, 27520), (93, 27505), (96, 27487), (103, 27460), (109, 27427), (117, 27397), (139, 27247),

Gene: Moonflower_39 Start: 33232, Stop: 32912, Start Num: 79

Candidate Starts for Moonflower_39:

(Start: 60 @33292 has 1 MA's), (Start: 66 @33274 has 118 MA's), (Start: 79 @33232 has 3 MA's), (117, 33073), (118, 33067), (132, 32938), (134, 32935), (137, 32926),

Gene: Mowgli_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Mowgli_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Mutzi_48 Start: 40895, Stop: 40482, Start Num: 66

Candidate Starts for Mutzi_48:

(55, 40931), (Start: 66 @40895 has 118 MA's), (Start: 79 @40853 has 3 MA's), (94, 40787), (100, 40766), (109, 40724), (118, 40688), (129, 40580),

Gene: Nazo_35 Start: 29476, Stop: 29075, Start Num: 66

Candidate Starts for Nazo_35:

(24, 29623), (33, 29581), (46, 29542), (56, 29506), (Start: 66 @29476 has 118 MA's), (91, 29386), (93, 29377), (103, 29332), (109, 29299), (117, 29269), (139, 29119),

Gene: Necropolis_31 Start: 27344, Stop: 26943, Start Num: 66

Candidate Starts for Necropolis_31:

(32, 27455), (Start: 40 @27425 has 2 MA's), (49, 27401), (Start: 66 @27344 has 118 MA's), (73, 27317), (83, 27287), (88, 27269), (93, 27245), (96, 27227), (103, 27200), (109, 27167), (117, 27137), (139, 26987),

Gene: Nubi_48 Start: 39892, Stop: 39479, Start Num: 66

Candidate Starts for Nubi_48:

(34, 39997), (37, 39991), (43, 39967), (55, 39928), (Start: 66 @39892 has 118 MA's), (Start: 79 @39850 has 3 MA's), (94, 39784), (100, 39763), (109, 39721), (118, 39685), (129, 39577),

Gene: Nyceirae_36 Start: 30000, Stop: 29677, Start Num: 76

Candidate Starts for Nyceirae_36:

(Start: 66 @30033 has 118 MA's), (Start: 76 @30000 has 1 MA's), (82, 29979), (96, 29919), (101, 29904), (112, 29856), (114, 29844), (134, 29700),

Gene: Olga_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Olga_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Opie_43 Start: 33208, Stop: 32843, Start Num: 66

Candidate Starts for Opie_43:

(Start: 60 @33226 has 1 MA's), (Start: 66 @33208 has 118 MA's), (Start: 79 @33166 has 3 MA's), (102, 33079), (110, 33034), (117, 33007), (118, 33001), (137, 32857),

Gene: Paito_33 Start: 29505, Stop: 29047, Start Num: 66

Candidate Starts for Paito_33:

(Start: 66 @29505 has 118 MA's), (Start: 70 @29487 has 2 MA's), (84, 29448), (90, 29424), (94, 29397), (109, 29334), (125, 29229), (146, 29088),

Gene: PeanutPie_31 Start: 27343, Stop: 26942, Start Num: 66

Candidate Starts for PeanutPie_31:

(32, 27454), (Start: 40 @27424 has 2 MA's), (Start: 66 @27343 has 118 MA's), (73, 27316), (83, 27286), (88, 27268), (90, 27259), (93, 27244), (96, 27226), (103, 27199), (109, 27166), (117, 27136), (139, 26986),

Gene: Periodt_33 Start: 29315, Stop: 28905, Start Num: 66

Candidate Starts for Periodt_33:

(23, 29480), (28, 29444), (30, 29438), (42, 29390), (Start: 66 @29315 has 118 MA's), (Start: 70 @29297 has 2 MA's), (90, 29234), (94, 29207), (100, 29186), (125, 29039), (135, 28976), (136, 28970),

Gene: Phalm_31 Start: 27604, Stop: 27203, Start Num: 66

Candidate Starts for Phalm_31:

(32, 27715), (Start: 40 @27685 has 2 MA's), (Start: 66 @27604 has 118 MA's), (73, 27577), (83, 27547), (88, 27529), (90, 27520), (93, 27505), (96, 27487), (103, 27460), (109, 27427), (117, 27397), (139, 27247),

Gene: Phayonce_33 Start: 29388, Stop: 28987, Start Num: 66

Candidate Starts for Phayonce_33:

(Start: 66 @29388 has 118 MA's), (Start: 70 @29370 has 2 MA's), (90, 29304), (91, 29298), (93, 29289), (103, 29244), (109, 29211), (117, 29181),

Gene: Phegasus_31 Start: 27433, Stop: 26951, Start Num: 40

Candidate Starts for Phegasus_31:

(32, 27463), (Start: 40 @27433 has 2 MA's), (Start: 66 @27352 has 118 MA's), (73, 27325), (83, 27295), (88, 27277), (93, 27253), (96, 27235), (103, 27208), (109, 27175), (117, 27145), (139, 26995),

Gene: Phineas_31 Start: 27718, Stop: 27317, Start Num: 66

Candidate Starts for Phineas_31:

(32, 27829), (Start: 40 @27799 has 2 MA's), (49, 27775), (Start: 66 @27718 has 118 MA's), (73, 27691), (83, 27661), (88, 27643), (93, 27619), (96, 27601), (103, 27574), (109, 27541), (117, 27511), (139, 27361),

Gene: Phlop_47 Start: 39973, Stop: 39560, Start Num: 66

Candidate Starts for Phlop_47:

(34, 40078), (37, 40072), (43, 40048), (55, 40009), (Start: 66 @39973 has 118 MA's), (Start: 79 @39931 has 3 MA's), (94, 39865), (100, 39844), (109, 39802), (118, 39766), (129, 39658),

Gene: Phreak_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for Phreak_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: PhrostedPhlake_44 Start: 32850, Stop: 32413, Start Num: 50

Candidate Starts for PhrostedPhlake_44:

(48, 32859), (Start: 50 @32850 has 1 MA's), (54, 32838), (55, 32835), (57, 32832), (68, 32796), (77, 32772), (92, 32724), (97, 32697), (111, 32646), (142, 32457),

Gene: PinkCoffee_50 Start: 40076, Stop: 39663, Start Num: 66

Candidate Starts for PinkCoffee_50:

(34, 40181), (37, 40175), (43, 40151), (55, 40112), (Start: 66 @40076 has 118 MA's), (Start: 79 @40034 has 3 MA's), (94, 39968), (100, 39947), (109, 39905), (118, 39869), (129, 39761),

Gene: Pipp_38 Start: 31416, Stop: 30997, Start Num: 66

Candidate Starts for Pipp_38:

(20, 31644), (Start: 66 @31416 has 118 MA's), (86, 31350), (100, 31287), (110, 31239), (116, 31215),

Gene: Plagueis_33 Start: 29159, Stop: 28749, Start Num: 66

Candidate Starts for Plagueis_33:

(23, 29324), (28, 29288), (30, 29282), (Start: 66 @29159 has 118 MA's), (Start: 70 @29141 has 2 MA's), (90, 29078), (94, 29051), (125, 28883), (135, 28820), (136, 28814),

Gene: Polkaroo_31 Start: 27361, Stop: 26960, Start Num: 66

Candidate Starts for Polkaroo_31:

(32, 27472), (Start: 40 @27442 has 2 MA's), (Start: 66 @27361 has 118 MA's), (73, 27334), (83, 27304), (88, 27286), (90, 27277), (93, 27262), (96, 27244), (103, 27217), (109, 27184), (117, 27154), (139, 27004),

Gene: Popper_41 Start: 29991, Stop: 29548, Start Num: 62

Candidate Starts for Popper_41:

(Start: 39 @30069 has 2 MA's), (47, 30045), (51, 30033), (Start: 62 @29991 has 3 MA's), (Start: 66 @29979 has 118 MA's), (85, 29910), (89, 29895), (120, 29745), (126, 29652),

Gene: Portcullis_50 Start: 39579, Stop: 39166, Start Num: 66

Candidate Starts for Portcullis_50:

(34, 39684), (37, 39678), (43, 39654), (55, 39615), (Start: 66 @39579 has 118 MA's), (Start: 79 @39537 has 3 MA's), (94, 39471), (100, 39450), (109, 39408), (118, 39372),

Gene: PullumCavea_47 Start: 39973, Stop: 39560, Start Num: 66

Candidate Starts for PullumCavea_47:

(34, 40078), (37, 40072), (43, 40048), (55, 40009), (Start: 66 @39973 has 118 MA's), (Start: 79 @39931 has 3 MA's), (94, 39865), (100, 39844), (109, 39802), (118, 39766), (129, 39658),

Gene: Purky_38 Start: 30118, Stop: 29705, Start Num: 66

Candidate Starts for Purky_38:

(Start: 66 @30118 has 118 MA's), (Start: 70 @30100 has 2 MA's), (80, 30073), (90, 30034), (91, 30028), (93, 30019), (103, 29974), (109, 29941), (117, 29911),

Gene: Pygmy_33 Start: 29186, Stop: 28785, Start Num: 66

Candidate Starts for Pygmy_33:

(Start: 66 @29186 has 118 MA's), (73, 29159), (83, 29129), (88, 29111), (93, 29087), (96, 29069), (103, 29042), (109, 29009), (117, 28979), (139, 28829),

Gene: QuinnAvery_43 Start: 30914, Stop: 30495, Start Num: 66

Candidate Starts for QuinnAvery_43:

(35, 31016), (55, 30950), (Start: 66 @30914 has 118 MA's), (80, 30860), (88, 30830), (96, 30788), (114, 30707), (122, 30668), (126, 30599),

Gene: Rabbs_33 Start: 29407, Stop: 28997, Start Num: 66

Candidate Starts for Rabbs_33:

(23, 29572), (28, 29536), (30, 29530), (Start: 62 @29419 has 3 MA's), (Start: 66 @29407 has 118 MA's), (Start: 70 @29389 has 2 MA's), (94, 29299), (100, 29278), (125, 29131), (136, 29062), (140, 29038),

Gene: RogerDodger_51 Start: 40116, Stop: 39703, Start Num: 66

Candidate Starts for RogerDodger_51:

(55, 40152), (Start: 66 @40116 has 118 MA's), (Start: 79 @40074 has 3 MA's), (94, 40008), (100, 39987), (109, 39945), (118, 39909),

Gene: Salvador_47 Start: 39785, Stop: 39372, Start Num: 66

Candidate Starts for Salvador_47:

(34, 39890), (37, 39884), (43, 39860), (55, 39821), (Start: 66 @39785 has 118 MA's), (Start: 79 @39743 has 3 MA's), (94, 39677), (100, 39656), (109, 39614), (118, 39578), (129, 39470),

Gene: Santhid_31 Start: 24886, Stop: 24497, Start Num: 66

Candidate Starts for Santhid_31:

(27, 25018), (31, 25003), (38, 24982), (41, 24961), (Start: 66 @24886 has 118 MA's), (83, 24829), (91, 24796), (98, 24763), (109, 24703), (121, 24652),

Gene: Savbucketdawg_48 Start: 39566, Stop: 39153, Start Num: 66

Candidate Starts for Savbucketdawg_48:

(55, 39602), (Start: 66 @39566 has 118 MA's), (Start: 79 @39524 has 3 MA's), (94, 39458), (100, 39437), (109, 39395), (118, 39359), (129, 39251),

Gene: ShaboiShabazz_33 Start: 29324, Stop: 28914, Start Num: 66

Candidate Starts for ShaboiShabazz_33:

(23, 29489), (28, 29453), (30, 29447), (42, 29399), (Start: 66 @29324 has 118 MA's), (Start: 70 @29306 has 2 MA's), (90, 29243), (94, 29216), (100, 29195), (125, 29048), (135, 28985), (136, 28979),

Gene: Shipwreck_33 Start: 29161, Stop: 28760, Start Num: 66

Candidate Starts for Shipwreck_33:

(Start: 66 @29161 has 118 MA's), (73, 29134), (83, 29104), (88, 29086), (93, 29062), (96, 29044), (103, 29017), (109, 28984), (117, 28954), (139, 28804),

Gene: Sizemore_33 Start: 29325, Stop: 28915, Start Num: 66

Candidate Starts for Sizemore_33:

(23, 29490), (28, 29454), (30, 29448), (Start: 66 @29325 has 118 MA's), (Start: 70 @29307 has 2 MA's), (90, 29244), (94, 29217), (109, 29154), (125, 29049), (135, 28986), (136, 28980), (140, 28956),

Gene: SmokingBunny_48 Start: 39878, Stop: 39465, Start Num: 66

Candidate Starts for SmokingBunny_48:

(34, 39983), (37, 39977), (43, 39953), (55, 39914), (Start: 66 @39878 has 118 MA's), (Start: 79 @39836 has 3 MA's), (94, 39770), (100, 39749), (109, 39707), (118, 39671), (129, 39563),

Gene: Sonah_31 Start: 27333, Stop: 26932, Start Num: 66

Candidate Starts for Sonah_31:

(32, 27444), (Start: 40 @27414 has 2 MA's), (Start: 66 @27333 has 118 MA's), (73, 27306), (83, 27276), (88, 27258), (90, 27249), (93, 27234), (96, 27216), (103, 27189), (109, 27156), (117, 27126), (139, 26976),

Gene: StevieRay_31 Start: 27312, Stop: 26911, Start Num: 66

Candidate Starts for StevieRay_31:

(32, 27423), (Start: 40 @27393 has 2 MA's), (Start: 66 @27312 has 118 MA's), (73, 27285), (83, 27255), (88, 27237), (90, 27228), (93, 27213), (96, 27195), (103, 27168), (109, 27135), (117, 27105), (139, 26955),

Gene: StressBall_31 Start: 27604, Stop: 27203, Start Num: 66

Candidate Starts for StressBall_31:

(32, 27715), (Start: 40 @27685 has 2 MA's), (Start: 66 @27604 has 118 MA's), (73, 27577), (83, 27547), (88, 27529), (90, 27520), (93, 27505), (96, 27487), (103, 27460), (109, 27427), (117, 27397), (139, 27247),

Gene: Sweets_33 Start: 29319, Stop: 28909, Start Num: 66

Candidate Starts for Sweets_33:

(23, 29484), (28, 29448), (30, 29442), (42, 29394), (Start: 66 @29319 has 118 MA's), (Start: 70 @29301 has 2 MA's), (90, 29238), (94, 29211), (100, 29190), (125, 29043), (135, 28980), (136, 28974),

Gene: Taheera_33 Start: 29454, Stop: 29032, Start Num: 62

Candidate Starts for Taheera_33:

(23, 29607), (28, 29571), (30, 29565), (Start: 62 @29454 has 3 MA's), (Start: 66 @29442 has 118 MA's), (Start: 70 @29424 has 2 MA's), (90, 29361), (94, 29334), (100, 29313), (125, 29166), (136, 29097), (140, 29073), (144, 29052),

Gene: TaronosaurusRx_42 Start: 31610, Stop: 31248, Start Num: 66

Candidate Starts for TaronosaurusRx_42:

(Start: 60 @31628 has 1 MA's), (Start: 66 @31610 has 118 MA's), (Start: 79 @31568 has 3 MA's), (114, 31421), (118, 31403), (137, 31262),

Gene: Tarzan_32 Start: 26056, Stop: 25667, Start Num: 66

Candidate Starts for Tarzan_32:

(27, 26188), (31, 26173), (38, 26152), (41, 26131), (44, 26128), (Start: 66 @26056 has 118 MA's), (83, 25999), (89, 25978), (91, 25966), (98, 25933), (109, 25873), (121, 25822),

Gene: Techage_31 Start: 27370, Stop: 26969, Start Num: 66

Candidate Starts for Techage_31:

(32, 27481), (Start: 40 @27451 has 2 MA's), (49, 27427), (Start: 66 @27370 has 118 MA's), (73, 27343), (83, 27313), (88, 27295), (93, 27271), (96, 27253), (103, 27226), (109, 27193), (117, 27163), (139, 27013),

Gene: Terror_33 Start: 29454, Stop: 29032, Start Num: 62

Candidate Starts for Terror_33:

(23, 29607), (28, 29571), (30, 29565), (Start: 62 @29454 has 3 MA's), (Start: 66 @29442 has 118 MA's), (Start: 70 @29424 has 2 MA's), (90, 29361), (94, 29334), (100, 29313), (125, 29166), (136, 29097), (140, 29073), (144, 29052),

Gene: Thespis_31 Start: 27421, Stop: 26939, Start Num: 40

Candidate Starts for Thespis_31:

(32, 27451), (Start: 40 @27421 has 2 MA's), (Start: 66 @27340 has 118 MA's), (73, 27313), (83, 27283), (88, 27265), (90, 27256), (93, 27241), (96, 27223), (103, 27196), (109, 27163), (117, 27133), (139, 26983),

Gene: Togo_47 Start: 39878, Stop: 39465, Start Num: 66

Candidate Starts for Togo_47:

(34, 39983), (37, 39977), (43, 39953), (55, 39914), (Start: 66 @39878 has 118 MA's), (Start: 79 @39836 has 3 MA's), (94, 39770), (100, 39749), (109, 39707), (118, 39671), (129, 39563),

Gene: TomBrady_33 Start: 29325, Stop: 28915, Start Num: 66

Candidate Starts for TomBrady_33:

(23, 29490), (28, 29454), (30, 29448), (42, 29400), (Start: 66 @29325 has 118 MA's), (Start: 70 @29307 has 2 MA's), (90, 29244), (94, 29217), (100, 29196), (125, 29049), (135, 28986), (136, 28980),

Gene: Twister6_50 Start: 39679, Stop: 39266, Start Num: 66

Candidate Starts for Twister6_50:

(34, 39784), (37, 39778), (43, 39754), (55, 39715), (Start: 66 @39679 has 118 MA's), (Start: 79 @39637 has 3 MA's), (94, 39571), (100, 39550), (109, 39508), (118, 39472),

Gene: Typha_53 Start: 41198, Stop: 40797, Start Num: 59

Candidate Starts for Typha_53:

(Start: 59 @41198 has 2 MA's), (Start: 66 @41177 has 118 MA's), (82, 41123), (94, 41069), (105, 41027), (114, 40988), (117, 40976), (125, 40901), (131, 40847), (133, 40841),

Gene: Valary_50 Start: 40721, Stop: 40308, Start Num: 66

Candidate Starts for Valary_50:

(55, 40757), (Start: 66 @40721 has 118 MA's), (Start: 79 @40679 has 3 MA's), (94, 40613), (100, 40592), (109, 40550), (118, 40514), (129, 40406),

Gene: VanDeWege_51 Start: 40013, Stop: 39600, Start Num: 66

Candidate Starts for VanDeWege_51:

(55, 40049), (Start: 66 @40013 has 118 MA's), (Start: 79 @39971 has 3 MA's), (94, 39905), (100, 39884), (109, 39842), (118, 39806), (129, 39698),

Gene: Venti_31 Start: 27347, Stop: 26946, Start Num: 66

Candidate Starts for Venti_31:

(32, 27458), (Start: 40 @27428 has 2 MA's), (49, 27404), (Start: 66 @27347 has 118 MA's), (73, 27320), (83, 27290), (88, 27272), (93, 27248), (96, 27230), (103, 27203), (109, 27170), (117, 27140), (139, 26990),

Gene: Vidya_31 Start: 27380, Stop: 26979, Start Num: 66

Candidate Starts for Vidya_31:

(32, 27491), (Start: 40 @27461 has 2 MA's), (49, 27437), (Start: 66 @27380 has 118 MA's), (73, 27353), (83, 27323), (88, 27305), (93, 27281), (96, 27263), (103, 27236), (109, 27203), (117, 27173), (139, 27023),

Gene: Willsammy_30 Start: 27087, Stop: 26686, Start Num: 66

Candidate Starts for Willsammy_30:

(32, 27198), (Start: 40 @27168 has 2 MA's), (Start: 66 @27087 has 118 MA's), (73, 27060), (83, 27030), (88, 27012), (90, 27003), (93, 26988), (96, 26970), (103, 26943), (109, 26910), (117, 26880), (139, 26730),

Gene: Wizard_47 Start: 39877, Stop: 39506, Start Num: 79

Candidate Starts for Wizard_47:

(55, 39955), (Start: 66 @39919 has 118 MA's), (Start: 79 @39877 has 3 MA's), (94, 39811), (100, 39790), (109, 39748), (118, 39712), (129, 39604),

Gene: YungMoney_51 Start: 42233, Stop: 41832, Start Num: 66

Candidate Starts for YungMoney_51:

(25, 42377), (36, 42332), (45, 42305), (58, 42254), (Start: 66 @42233 has 118 MA's), (80, 42188), (103, 42092), (115, 42035), (121, 42008), (134, 41891),

Gene: Zilizebeth_31 Start: 27379, Stop: 26978, Start Num: 66

Candidate Starts for Zilizebeth_31:

(32, 27490), (Start: 40 @27460 has 2 MA's), (49, 27436), (Start: 66 @27379 has 118 MA's), (73, 27352), (83, 27322), (88, 27304), (93, 27280), (96, 27262), (103, 27235), (109, 27202), (117, 27172), (139, 27022),