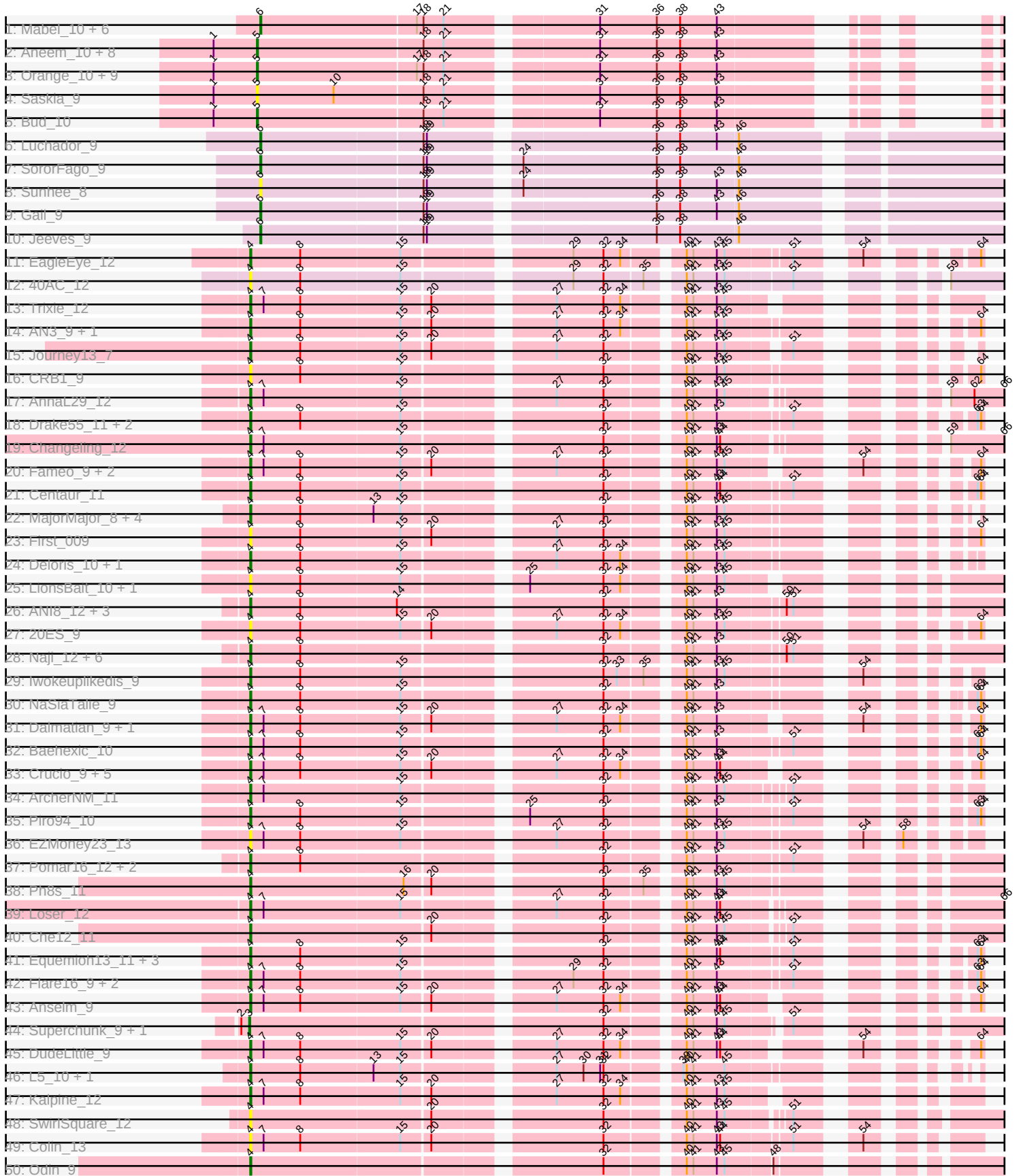
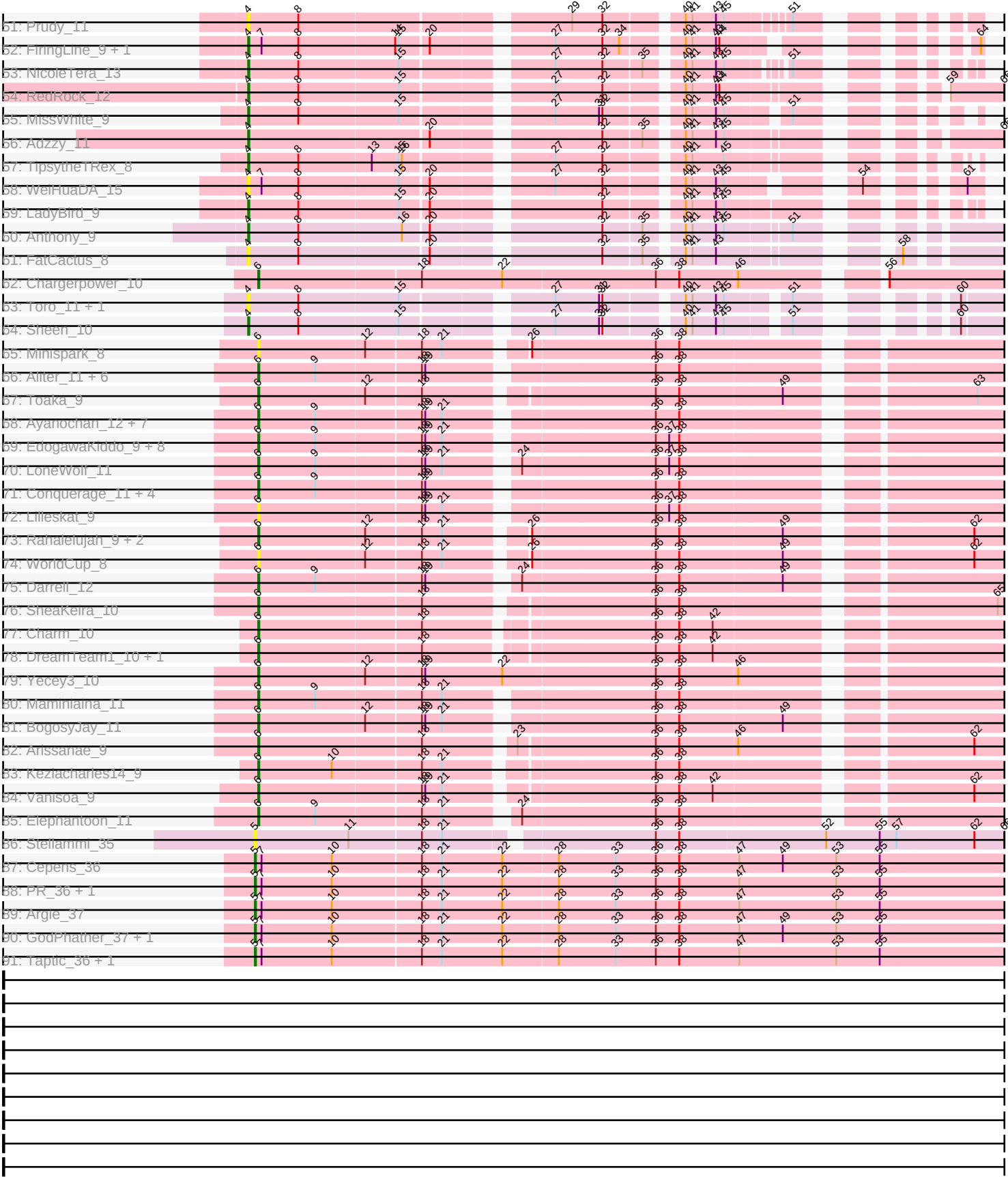


Zoomed Pham 280123



Zoomed Pham 280123



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 280123 Report

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

Pham number 280123 has 182 members, 42 are drafts.

Phages represented in each track:

- Track 1 : Mabel_10, Jabith_10, Lucivia_10, Insomnia_10, TinyTimmy_10, Kimba_10, Ebony_10
- Track 2 : Aneem_10, Bowtie_10, Munch_10, MaCh_10, Bachome_10, Joselito_10, Gilberta_10, Flaverint_10, Timothy_10
- Track 3 : Orange_10, Mulciber_10, Wolpertinger_9, Salz_10, Sham4_10, Snape_10, Hutc2_10, Petersenfast_9, Et2Brutus_9, Fibonacci_10
- Track 4 : Saskia_9
- Track 5 : Bud_10
- Track 6 : Luchador_9
- Track 7 : SororFago_9
- Track 8 : Sunhee_8
- Track 9 : Gail_9
- Track 10 : Jeeves_9
- Track 11 : EagleEye_12
- Track 12 : 40AC_12
- Track 13 : Trixie_12
- Track 14 : AN3_9, VA6_9
- Track 15 : Journey13_7
- Track 16 : CRB1_9
- Track 17 : AnnaL29_12
- Track 18 : Drake55_11, HarryHoudini_11, Terrific_13
- Track 19 : Changeling_12
- Track 20 : Fameo_9, Heffalump_11, QueenB2_9
- Track 21 : Centaur_11
- Track 22 : MajorMajor_8, Bradman_8, Serenity_8, Quokka_7, Jsquared_8
- Track 23 : First_009
- Track 24 : Deloris_10, BengiVuitton_10
- Track 25 : LionsBait_10, HippoHollow_10
- Track 26 : ANI8_12, AN9_12, VC3_12, C3_07
- Track 27 : 20ES_9
- Track 28 : Naji_12, Duplo_12, D32_12, D29_10, StarStuff_12, Travvers_12, Tomathan_12
- Track 29 : Iwokeuplikedis_9
- Track 30 : NaSiaTalie_9
- Track 31 : Dalmatian_9, Retro23_9
- Track 32 : Baehexic_10

- Track 33 : Crucio_9, SnapTap_9, SweetiePie_9, SemperFi_11, Power_9, Georgie2_9
- Track 34 : ArcherNM_11
- Track 35 : Piro94_10
- Track 36 : EZMoney23_13
- Track 37 : Pomar16_12, Kerberos_12, DBQu4n_12
- Track 38 : Ph8s_11
- Track 39 : Loser_12
- Track 40 : Che12_11
- Track 41 : Equemioh13_11, WideWale_11, Gratitude_10, Updawg_11
- Track 42 : Flare16_9, Sknot_9, MiculUcigas_9
- Track 43 : Anselm_9
- Track 44 : Superchunk_9, Caraxes_9
- Track 45 : DudeLittle_9
- Track 46 : L5_10, Koduck_9
- Track 47 : Kalpine_12
- Track 48 : SwirlSquare_12
- Track 49 : Colin_13
- Track 50 : Odin_9
- Track 51 : Prudy_11
- Track 52 : FiringLine_9, QueenBeesly_9
- Track 53 : NicoleTera_13
- Track 54 : RedRock_12
- Track 55 : MissWhite_9
- Track 56 : Adzzy_11
- Track 57 : TipsytheTRex_8
- Track 58 : WeiHuaDA_15
- Track 59 : LadyBird_9
- Track 60 : Anthony_9
- Track 61 : FatCactus_8
- Track 62 : Chargerpower_10
- Track 63 : Toro_11, FlyCatcher_12
- Track 64 : Sheen_10
- Track 65 : Minispark_8
- Track 66 : Aliter_11, HortumSL17_11, Catalina_11, Phaeder_11, Tubs_11, Myxus_11, PackMan_11
- Track 67 : Toaka_9
- Track 68 : Ayanochan_12, Qobbit_11, Fayely_11, Phonnegut_11, EmyBug_11, Pioneer_11, Beemo_11, ExplosioNervosa_11
- Track 69 : EdogawaKiddo_9, Scherzo_11, Hanray_10, Horex_10, Onglai_10, RyeScarlet_12, Jiawan_10, Ugenie5_8, Sachima_9
- Track 70 : LoneWolf_11
- Track 71 : Conquerage_11, Alma_11, Spouty_11, Priya_11, Eidsmoe_11
- Track 72 : Lilleskat_9
- Track 73 : Rahalelujah_9, Bellris_8, CogOmlette_8
- Track 74 : WorldCup_8
- Track 75 : Darrell_12
- Track 76 : SheaKeira_10
- Track 77 : Charm_10
- Track 78 : DreamTeam1_10, Klodlith_10
- Track 79 : Yecey3_10
- Track 80 : Maminiaina_11
- Track 81 : BogosyJay_11

- Track 82 : Arissanae_9
- Track 83 : Keziacharles14_9
- Track 84 : Vanisoa_9
- Track 85 : Elephantoon_11
- Track 86 : Stellammi_35
- Track 87 : Cepens_36
- Track 88 : PR_36, D12_35
- Track 89 : Argie_37
- Track 90 : GodPhather_37, Jeon_36
- Track 91 : Taptic_36, Megabear_36

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

The start number called the most often in the published annotations is 4, it was called in 67 of the 140 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_9, 40AC_12, AN3_9, AN9_12, ANI8_12, Adzzy_11, AnnaL29_12, Anselm_9, Anthony_9, ArcherNM_11, Baehexic_10, BengiVuitton_10, Bradman_8, C3_07, CRB1_9, Centaur_11, Changeling_12, Che12_11, Colin_13, Crucio_9, D29_10, D32_12, DBQu4n_12, Dalmatian_9, Deloris_10, Drake55_11, DudeLittle_9, Duplo_12, EZMoney23_13, EagleEye_12, Equemioh13_11, Fameo_9, FatCactus_8, FiringLine_9, First_009, Flare16_9, FlyCatcher_12, Georgie2_9, Gratitude_10, HarryHoudini_11, Heffalump_11, HippoHollow_10, Iwokeuplikedis_9, Journey13_7, Jsquared_8, Kalpine_12, Kerberos_12, Koduck_9, L5_10, LadyBird_9, LionsBait_10, Loser_12, MajorMajor_8, MiculUcigas_9, MissWhite_9, NaSiaTalie_9, Naji_12, NicoleTera_13, Odin_9, Ph8s_11, Piro94_10, Pomar16_12, Power_9, Prudy_11, QueenB2_9, QueenBeesly_9, Quokka_7, RedRock_12, Retro23_9, SemperFi_11, Serenity_8, Sheen_10, Sknot_9, SnapTap_9, StarStuff_12, SweetiePie_9, SwirlSquare_12, Terrific_13, TipsytheTRex_8, Tomathan_12, Toro_11, Travvers_12, Trixie_12, Updawg_11, VA6_9, VC3_12, WeiHuaDA_15, WideWale_11,

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

•

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

- Aliter_11, Alma_11, Aneem_10, Argie_37, Arissanae_9, Ayanochan_12, Bachome_10, Beemo_11, Bellris_8, BogosyJay_11, Bowtie_10, Bud_10, Caraxes_9, Catalina_11, Cepens_36, Chargerpower_10, Charm_10, CogOmlette_8, Conquerage_11, D12_35, Darrell_12, DreamTeam1_10, Ebony_10, EdogawaKiddo_9, Eidsmoe_11, Elephantoon_11, EmyBug_11, Et2Brutus_9, ExplosioNervosa_11, Fayely_11, Fibonacci_10, Flaverint_10, Gail_9, Gilberta_10, GodPhather_37, Hanray_10, Halex_10, HortumSL17_11, Hutc2_10, Insomnia_10, Jabith_10, Jeeves_9, Jeon_36, Jiawan_10, Joselito_10, Keziacharles14_9, Kimba_10, Klodlith_10, Lilleskat_9, LoneWolf_11, Luchador_9, Lucivia_10, MaCh_10, Mabel_10, Maminiaina_11, Megabear_36, Minispark_8, Mulciber_10, Munch_10, Myxus_11, Onglai_10, Orange_10, PR_36, PackMan_11, Petersenfast_9, Phaeder_11, Phonnegut_11, Pioneer_11, Priya_11, Qobbit_11, Rahalelujah_9, RyeScarlet_12, Sachima_9, Salz_10, Saskia_9, Scherzo_11, Sham4_10, SheaKeira_10, Snape_10, SororFago_9, Spouty_11, Stellammi_35, Sunhee_8,

Superchunk_9, Taptic_36, Timothy_10, TinyTimmy_10, Toaka_9, Tubs_11, Ugenie5_8, Vanisoa_9, Wolpertinger_9, WorldCup_8, Yecey3_10,

Summary by start number:

Start 3:

- Found in 2 of 182 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 140
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caraxes_9 (A2), Superchunk_9 (A2),

Start 4:

- Found in 88 of 182 (48.4%) of genes in pham
- Manual Annotations of this start: 67 of 140
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 20ES_9 (A2), 40AC_12 (A17), AN3_9 (A2), AN9_12 (A2), ANI8_12 (A2), Adzzy_11 (A2), AnnaL29_12 (A2), Anselm_9 (A2), Anthony_9 (A20), ArcherNM_11 (A2), Baehexic_10 (A2), BengiVuitton_10 (A2), Bradman_8 (A2), C3_07 (A2), CRB1_9 (A2), Centaur_11 (A2), Changeling_12 (A2), Che12_11 (A2), Colin_13 (A2), Crucio_9 (A2), D29_10 (A2), D32_12 (A2), DBQu4n_12 (A2), Dalmatian_9 (A2), Deloris_10 (A2), Drake55_11 (A2), DudeLittle_9 (A2), Duplo_12 (A2), EZMoney23_13 (A2), EagleEye_12 (A16), Equemioh13_11 (A2), Fameo_9 (A2), FatCactus_8 (A20), FiringLine_9 (A2), First_009 (A2), Flare16_9 (A2), FlyCatcher_12 (A7), Georgie2_9 (A2), Gratitude_10 (A2), HarryHoudini_11 (A2), Heffalump_11 (A2), HippoHollow_10 (A2), Iwokeuplikedis_9 (A2), Journey13_7 (A2), Jsquared_8 (A2), Kalpine_12 (A2), Kerberos_12 (A2), Koduck_9 (A2), L5_10 (A2), LadyBird_9 (A2), LionsBait_10 (A2), Loser_12 (A2), MajorMajor_8 (A2), MiculUcigas_9 (A2), MissWhite_9 (A2), NaSiaTalie_9 (A2), Naji_12 (A2), NicoleTera_13 (A2), Odin_9 (A2), Ph8s_11 (A2), Piro94_10 (A2), Pomar16_12 (A2), Power_9 (A2), Prudy_11 (A2), QueenB2_9 (A2), QueenBeesly_9 (A2), Quokka_7 (A2), RedRock_12 (A2), Retro23_9 (A2), SemperFi_11 (A2), Serenity_8 (A2), Sheen_10 (A7), Sknot_9 (A2), SnapTap_9 (A2), StarStuff_12 (A2), SweetiePie_9 (A2), SwirlSquare_12 (A2), Terrific_13 (A2), TopsytheTRex_8 (A2), Tomathan_12 (A2), Toro_11 (A7), Travvers_12 (A2), Trixie_12 (A2), Updawn_11 (A2), VA6_9 (A2), VC3_12 (A2), WeiHuaDA_15 (A2), WideWale_11 (A2),

Start 5:

- Found in 30 of 182 (16.5%) of genes in pham
- Manual Annotations of this start: 26 of 140
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aneem_10 (A11), Argie_37 (W), Bachome_10 (A11), Bowtie_10 (A11), Bud_10 (A11), Cepens_36 (W), D12_35 (W), Et2Brutus_9 (A11), Fibonacci_10 (A11), Flaverint_10 (A11), Gilberta_10 (A11), GodPhather_37 (W), Hutc2_10 (A11), Jeon_36 (W), Joselito_10 (A11), MaCh_10 (A11), Megabear_36 (W), Mulciber_10 (A11), Munch_10 (A11), Orange_10 (A11), PR_36 (W), Petersenfast_9 (A11), Salz_10 (A11), Saskia_9 (A11), Sham4_10 (A11), Snape_10 (A11), Stellammi_35 (UNK), Taptic_36 (W), Timothy_10 (A11), Wolpertinger_9 (A11),

Start 6:

- Found in 62 of 182 (34.1%) of genes in pham
- Manual Annotations of this start: 46 of 140
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Aliter_11 (A9), Alma_11 (A9), Arissanae_9 (A9), Ayanochan_12 (A9), Beemo_11 (A9), Bellris_8 (A9), BogosyJay_11 (A9), Catalina_11 (A9), Chargerpower_10 (A22), Charm_10 (A9), CogOmlette_8 (A9), Conquerage_11 (A9), Darrell_12 (A9), DreamTeam1_10 (A9), Ebony_10 (A11), EdogawaKiddo_9 (A9), Eidsmoe_11 (A9), Elephantoon_11 (A9), EmyBug_11 (A9), ExplosioNervosa_11 (A9), Fayely_11 (A9), Gail_9 (A14), Hanray_10 (A9), Halex_10 (A9), HortumSL17_11 (A9), Insomnia_10 (A11), Jabith_10 (A11), Jeeves_9 (A14), Jiawan_10 (A9), Keziacharles14_9 (A9), Kimba_10 (A11), Klodlith_10 (A9), Lilleskat_9 (A9), LoneWolf_11 (A9), Luchador_9 (A14), Lucivia_10 (A11), Mabel_10 (A11), Maminiaina_11 (A9), Minispark_8 (A9), Myxus_11 (A9), Onglai_10 (A9), PackMan_11 (A9), Phaeder_11 (A9), Phonnegut_11 (A9), Pioneer_11 (A9), Priya_11 (A9), Qobbit_11 (A9), Rahalelujah_9 (A9), RyeScarlet_12 (A9), Sachima_9 (A9), Scherzo_11 (A9), Sheakeira_10 (A9), SororFago_9 (A14), Spouty_11 (A9), Sunhee_8 (A14), TinyTimmy_10 (A11), Toaka_9 (A9), Tubs_11 (A9), Ugenie5_8 (A9), Vanisoa_9 (A9), WorldCup_8 (A9), Yecey3_10 (A9),

Summary by clusters:

There are 11 clusters represented in this pham: A20, A14, A17, A16, A11, A7, A22, A2, W, A9, UNK,

Info for manual annotations of cluster A11:

- Start number 5 was manually annotated 18 times for cluster A11.
- Start number 6 was manually annotated 6 times for cluster A11.

Info for manual annotations of cluster A14:

- Start number 6 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A16:

- Start number 4 was manually annotated 1 time for cluster A16.

Info for manual annotations of cluster A2:

- Start number 3 was manually annotated 1 time for cluster A2.
- Start number 4 was manually annotated 64 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 4 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:

- Start number 6 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A7:

- Start number 4 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:

- Start number 6 was manually annotated 35 times for cluster A9.

Info for manual annotations of cluster W:

- Start number 5 was manually annotated 8 times for cluster W.

Gene Information:

Gene: 20ES_9 Start: 4690, Stop: 5988, Start Num: 4

Candidate Starts for 20ES_9:

(Start: 4 @4690 has 67 MA's), (8, 4735), (15, 4822), (20, 4846), (27, 4939), (32, 4981), (34, 4996), (40, 5041), (41, 5047), (43, 5068), (45, 5074), (64, 5230), (88, 5302), (100, 5350), (144, 5569), (150, 5602), (175, 5707),

Gene: 40AC_12 Start: 6575, Stop: 8080, Start Num: 4

Candidate Starts for 40AC_12:

(Start: 4 @6575 has 67 MA's), (8, 6620), (15, 6707), (29, 6839), (32, 6866), (35, 6899), (40, 6926), (41, 6932), (43, 6953), (45, 6959), (51, 7016), (59, 7100), (104, 7397), (108, 7421), (120, 7496), (140, 7637), (150, 7688), (162, 7733), (175, 7793), (181, 7829), (185, 7841), (193, 7901), (196, 7919), (208, 8009), (209, 8021),

Gene: AN3_9 Start: 4672, Stop: 5973, Start Num: 4

Candidate Starts for AN3_9:

(Start: 4 @4672 has 67 MA's), (8, 4717), (15, 4804), (20, 4828), (27, 4921), (32, 4963), (34, 4978), (40, 5023), (41, 5029), (43, 5050), (45, 5056), (64, 5212), (88, 5284), (100, 5332), (127, 5455), (144, 5551), (150, 5584), (175, 5689), (181, 5725), (196, 5815), (209, 5917),

Gene: AN9_12 Start: 4696, Stop: 6177, Start Num: 4

Candidate Starts for AN9_12:

(Start: 4 @4696 has 67 MA's), (8, 4741), (14, 4825), (32, 4987), (40, 5047), (41, 5053), (43, 5074), (50, 5128), (51, 5134), (76, 5302), (83, 5353), (103, 5503), (113, 5584), (150, 5815), (165, 5878), (187, 5977), (208, 6106),

Gene: ANI8_12 Start: 4696, Stop: 6177, Start Num: 4

Candidate Starts for ANI8_12:

(Start: 4 @4696 has 67 MA's), (8, 4741), (14, 4825), (32, 4987), (40, 5047), (41, 5053), (43, 5074), (50, 5128), (51, 5134), (76, 5302), (83, 5353), (103, 5503), (113, 5584), (150, 5815), (165, 5878), (187, 5977), (208, 6106),

Gene: Adzzy_11 Start: 4473, Stop: 5846, Start Num: 4

Candidate Starts for Adzzy_11:

(Start: 4 @4473 has 67 MA's), (20, 4629), (32, 4764), (35, 4797), (40, 4824), (41, 4830), (43, 4851), (45, 4857), (66, 5043), (69, 5061), (84, 5130), (115, 5292), (128, 5340), (138, 5403), (166, 5565), (168, 5568), (179, 5631), (180, 5634), (196, 5721),

Gene: Aliter_11 Start: 6074, Stop: 7654, Start Num: 6

Candidate Starts for Aliter_11:

(Start: 6 @6074 has 46 MA's), (9, 6125), (18, 6215), (19, 6218), (36, 6404), (38, 6425), (67, 6686), (94, 6848), (98, 6899), (105, 7016), (139, 7241), (152, 7313), (167, 7373), (188, 7469), (193, 7514), (196, 7532),

Gene: Alma_11 Start: 6153, Stop: 7733, Start Num: 6

Candidate Starts for Alma_11:

(Start: 6 @6153 has 46 MA's), (9, 6204), (18, 6294), (19, 6297), (36, 6483), (38, 6504), (94, 6927), (98, 6978), (105, 7095), (118, 7179), (122, 7203), (128, 7230), (139, 7320), (152, 7392), (167, 7452), (188, 7548), (193, 7593), (196, 7611),

Gene: Aneem_10 Start: 6224, Stop: 7624, Start Num: 5

Candidate Starts for Aneem_10:

(1, 6185), (Start: 5 @6224 has 26 MA's), (18, 6371), (21, 6389), (31, 6509), (36, 6560), (38, 6581), (43, 6614), (73, 6761), (85, 6824), (86, 6830), (111, 6974), (122, 7055), (128, 7082), (160, 7286), (164, 7307), (171, 7331), (178, 7391), (188, 7424), (197, 7490), (210, 7586),

Gene: AnnaL29_12 Start: 6416, Stop: 7891, Start Num: 4

Candidate Starts for AnnaL29_12:

(Start: 4 @6416 has 67 MA's), (7, 6428), (15, 6548), (27, 6665), (32, 6707), (40, 6767), (41, 6773), (43, 6794), (45, 6800), (59, 6932), (62, 6953), (66, 6980), (83, 7067), (102, 7214), (103, 7217), (113, 7298), (143, 7487), (150, 7529), (153, 7547), (157, 7553), (162, 7577), (187, 7691), (189, 7700), (208, 7820), (210, 7853),

Gene: Anselm_9 Start: 4805, Stop: 6097, Start Num: 4

Candidate Starts for Anselm_9:

(Start: 4 @4805 has 67 MA's), (7, 4817), (8, 4850), (15, 4937), (20, 4961), (27, 5054), (32, 5096), (34, 5111), (40, 5156), (41, 5162), (43, 5183), (44, 5186), (64, 5333), (71, 5339), (100, 5453), (144, 5672), (150, 5705), (162, 5750), (175, 5810), (196, 5936), (209, 6038),

Gene: Anthony_9 Start: 3885, Stop: 5264, Start Num: 4

Candidate Starts for Anthony_9:

(Start: 4 @3885 has 67 MA's), (8, 3930), (16, 4020), (20, 4041), (32, 4176), (35, 4209), (40, 4236), (41, 4242), (43, 4263), (45, 4269), (51, 4323), (84, 4542), (92, 4572), (115, 4704), (128, 4752), (168, 4983), (169, 4986), (179, 5046), (180, 5049),

Gene: ArcherNM_11 Start: 6513, Stop: 7808, Start Num: 4

Candidate Starts for ArcherNM_11:

(Start: 4 @6513 has 67 MA's), (7, 6525), (15, 6645), (32, 6804), (40, 6864), (41, 6870), (43, 6891), (45, 6897), (51, 6945), (100, 7167), (144, 7386), (150, 7419), (175, 7524), (184, 7569), (196, 7650), (208, 7740), (209, 7752),

Gene: Argie_37 Start: 36368, Stop: 37990, Start Num: 5

Candidate Starts for Argie_37:

(Start: 5 @36368 has 26 MA's), (7, 36374), (10, 36437), (18, 36515), (21, 36533), (22, 36587), (28, 36635), (33, 36686), (36, 36722), (38, 36743), (47, 36797), (53, 36884), (55, 36923), (75, 37061), (80, 37100), (87, 37142), (96, 37205), (101, 37289), (121, 37436), (122, 37442), (139, 37568), (141, 37580), (147, 37610), (156, 37649), (161, 37670), (170, 37703), (172, 37712), (174, 37727), (182, 37775), (183, 37778), (192, 37826), (196, 37862), (200, 37877), (208, 37928),

Gene: Arissanae_9 Start: 4305, Stop: 5855, Start Num: 6

Candidate Starts for Arissanae_9:

(Start: 6 @4305 has 46 MA's), (18, 4446), (23, 4518), (36, 4635), (38, 4656), (46, 4707), (62, 4887), (67, 4917), (85, 5007), (98, 5130), (106, 5226), (131, 5367), (139, 5442), (152, 5514), (159, 5544), (167, 5574), (188, 5670), (195, 5730),

Gene: Ayanochan_12 Start: 6179, Stop: 7759, Start Num: 6

Candidate Starts for Ayanochan_12:

(Start: 6 @6179 has 46 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (36, 6509), (38, 6530), (67, 6791), (94, 6953), (98, 7004), (105, 7121), (139, 7346), (152, 7418), (167, 7478), (188, 7574), (193, 7619), (196, 7637),

Gene: Bachome_10 Start: 6221, Stop: 7621, Start Num: 5

Candidate Starts for Bachome_10:

(1, 6182), (Start: 5 @6221 has 26 MA's), (18, 6368), (21, 6386), (31, 6506), (36, 6557), (38, 6578), (43, 6611), (73, 6758), (85, 6821), (86, 6827), (111, 6971), (122, 7052), (128, 7079), (160, 7283), (164,

7304), (171, 7328), (178, 7388), (188, 7421), (197, 7487), (210, 7583),

Gene: Baehexic_10 Start: 5209, Stop: 6513, Start Num: 4

Candidate Starts for Baehexic_10:

(Start: 4 @5209 has 67 MA's), (7, 5221), (8, 5254), (15, 5341), (32, 5500), (40, 5560), (41, 5566), (43, 5587), (51, 5647), (63, 5746), (64, 5749), (88, 5821), (144, 6088), (150, 6121), (163, 6175), (175, 6226), (184, 6271), (188, 6289), (203, 6406),

Gene: Beemo_11 Start: 6180, Stop: 7760, Start Num: 6

Candidate Starts for Beemo_11:

(Start: 6 @6180 has 46 MA's), (9, 6231), (18, 6321), (19, 6324), (21, 6339), (36, 6510), (38, 6531), (67, 6792), (94, 6954), (98, 7005), (105, 7122), (139, 7347), (152, 7419), (167, 7479), (188, 7575), (193, 7620), (196, 7638),

Gene: Bellris_8 Start: 4273, Stop: 5823, Start Num: 6

Candidate Starts for Bellris_8:

(Start: 6 @4273 has 46 MA's), (12, 4366), (18, 4414), (21, 4432), (26, 4495), (36, 4603), (38, 4624), (49, 4714), (62, 4855), (67, 4885), (85, 4975), (98, 5098), (113, 5236), (152, 5482), (159, 5512), (167, 5542), (188, 5638),

Gene: BengiVuitton_10 Start: 5133, Stop: 6422, Start Num: 4

Candidate Starts for BengiVuitton_10:

(Start: 4 @5133 has 67 MA's), (8, 5178), (15, 5265), (27, 5382), (32, 5424), (34, 5439), (40, 5484), (41, 5490), (43, 5511), (45, 5517), (88, 5742), (100, 5790), (144, 6009), (150, 6042), (175, 6147), (197, 6276),

Gene: BogosyJay_11 Start: 5937, Stop: 7517, Start Num: 6

Candidate Starts for BogosyJay_11:

(Start: 6 @5937 has 46 MA's), (12, 6030), (18, 6078), (19, 6081), (21, 6096), (36, 6267), (38, 6288), (49, 6378), (67, 6549), (94, 6711), (98, 6762), (118, 6963), (122, 6987), (152, 7176), (167, 7236), (188, 7332), (193, 7377), (196, 7395),

Gene: Bowtie_10 Start: 6224, Stop: 7624, Start Num: 5

Candidate Starts for Bowtie_10:

(1, 6185), (Start: 5 @6224 has 26 MA's), (18, 6371), (21, 6389), (31, 6509), (36, 6560), (38, 6581), (43, 6614), (73, 6761), (85, 6824), (86, 6830), (111, 6974), (122, 7055), (128, 7082), (160, 7286), (164, 7307), (171, 7331), (178, 7391), (188, 7424), (197, 7490), (210, 7586),

Gene: Bradman_8 Start: 4332, Stop: 5210, Start Num: 4

Candidate Starts for Bradman_8:

(Start: 4 @4332 has 67 MA's), (8, 4377), (13, 4440), (15, 4464), (32, 4623), (40, 4683), (41, 4689), (43, 4710), (45, 4716), (74, 4869), (79, 4893), (109, 5010), (124, 5076), (125, 5079), (130, 5094), (132, 5100), (135, 5115), (142, 5172),

Gene: Bud_10 Start: 6230, Stop: 7630, Start Num: 5

Candidate Starts for Bud_10:

(1, 6191), (Start: 5 @6230 has 26 MA's), (18, 6377), (21, 6395), (31, 6515), (36, 6566), (38, 6587), (43, 6620), (73, 6767), (85, 6830), (111, 6980), (122, 7061), (128, 7088), (160, 7292), (164, 7313), (171, 7337), (178, 7397), (188, 7430), (197, 7496), (210, 7592),

Gene: C3_07 Start: 4696, Stop: 6177, Start Num: 4

Candidate Starts for C3_07:

(Start: 4 @4696 has 67 MA's), (8, 4741), (14, 4825), (32, 4987), (40, 5047), (41, 5053), (43, 5074), (50, 5128), (51, 5134), (76, 5302), (83, 5353), (103, 5503), (113, 5584), (150, 5815), (165, 5878), (187, 5977), (208, 6106),

Gene: CRB1_9 Start: 4679, Stop: 5974, Start Num: 4

Candidate Starts for CRB1_9:

(Start: 4 @4679 has 67 MA's), (8, 4724), (15, 4811), (32, 4970), (40, 5030), (41, 5036), (43, 5057), (45, 5063), (64, 5219), (88, 5291), (100, 5339), (144, 5558), (150, 5591), (175, 5696), (185, 5744),

Gene: Caraxes_9 Start: 4337, Stop: 5746, Start Num: 3

Candidate Starts for Caraxes_9:

(2, 4331), (Start: 3 @4337 has 1 MA's), (32, 4628), (40, 4688), (41, 4694), (43, 4715), (45, 4721), (51, 4769), (76, 4937), (84, 4988), (154, 5417), (168, 5468), (169, 5471), (179, 5531), (180, 5534), (210, 5717),

Gene: Catalina_11 Start: 6147, Stop: 7727, Start Num: 6

Candidate Starts for Catalina_11:

(Start: 6 @6147 has 46 MA's), (9, 6198), (18, 6288), (19, 6291), (36, 6477), (38, 6498), (67, 6759), (94, 6921), (98, 6972), (105, 7089), (139, 7314), (152, 7386), (167, 7446), (188, 7542), (193, 7587), (196, 7605),

Gene: Centaur_11 Start: 5188, Stop: 6492, Start Num: 4

Candidate Starts for Centaur_11:

(Start: 4 @5188 has 67 MA's), (8, 5233), (15, 5320), (32, 5479), (40, 5539), (41, 5545), (43, 5566), (44, 5569), (51, 5626), (63, 5725), (64, 5728), (88, 5800), (100, 5848), (144, 6067), (150, 6100), (163, 6154), (175, 6205), (184, 6250), (188, 6268),

Gene: Cepens_36 Start: 36083, Stop: 37705, Start Num: 5

Candidate Starts for Cepens_36:

(Start: 5 @36083 has 26 MA's), (7, 36089), (10, 36152), (18, 36230), (21, 36248), (22, 36302), (28, 36350), (33, 36401), (36, 36437), (38, 36458), (47, 36512), (49, 36551), (53, 36599), (55, 36638), (75, 36776), (80, 36815), (87, 36857), (96, 36920), (101, 37004), (121, 37151), (122, 37157), (139, 37283), (141, 37295), (147, 37325), (156, 37364), (161, 37385), (170, 37418), (172, 37427), (174, 37442), (182, 37490), (183, 37493), (186, 37502), (192, 37541), (196, 37577), (200, 37592), (208, 37643),

Gene: Changeling_12 Start: 6426, Stop: 7901, Start Num: 4

Candidate Starts for Changeling_12:

(Start: 4 @6426 has 67 MA's), (7, 6438), (15, 6558), (32, 6717), (40, 6777), (41, 6783), (43, 6804), (44, 6807), (59, 6942), (66, 6990), (72, 7011), (83, 7077), (102, 7224), (103, 7227), (113, 7308), (143, 7497), (150, 7539), (162, 7587), (165, 7602), (187, 7701), (196, 7764), (208, 7830),

Gene: Chargerpower_10 Start: 4583, Stop: 6187, Start Num: 6

Candidate Starts for Chargerpower_10:

(Start: 6 @4583 has 46 MA's), (18, 4724), (22, 4796), (36, 4931), (38, 4952), (46, 5003), (56, 5108), (85, 5303), (94, 5375), (98, 5426), (105, 5543), (139, 5768), (158, 5861), (167, 5906), (176, 5957), (188, 6002), (204, 6110),

Gene: Charm_10 Start: 4360, Stop: 5916, Start Num: 6

Candidate Starts for Charm_10:

(Start: 6 @4360 has 46 MA's), (18, 4501), (36, 4690), (38, 4711), (42, 4741), (98, 5185), (113, 5323), (131, 5422), (151, 5563), (152, 5569), (167, 5635), (188, 5731),

Gene: Che12_11 Start: 4473, Stop: 5840, Start Num: 4

Candidate Starts for Che12_11:

(Start: 4 @4473 has 67 MA's), (20, 4629), (32, 4764), (40, 4824), (41, 4830), (43, 4851), (45, 4857), (51, 4905), (69, 5055), (84, 5124), (115, 5286), (128, 5334), (138, 5397), (166, 5559), (168, 5562), (179, 5625), (180, 5628), (196, 5715),

Gene: CogOmlette_8 Start: 4273, Stop: 5823, Start Num: 6

Candidate Starts for CogOmlette_8:

(Start: 6 @4273 has 46 MA's), (12, 4366), (18, 4414), (21, 4432), (26, 4495), (36, 4603), (38, 4624), (49, 4714), (62, 4855), (67, 4885), (85, 4975), (98, 5098), (113, 5236), (152, 5482), (159, 5512), (167, 5542), (188, 5638),

Gene: Colin_13 Start: 6391, Stop: 7695, Start Num: 4

Candidate Starts for Colin_13:

(Start: 4 @6391 has 67 MA's), (7, 6403), (8, 6436), (15, 6523), (20, 6547), (32, 6682), (40, 6742), (41, 6748), (43, 6769), (44, 6772), (51, 6829), (54, 6868), (100, 7057), (144, 7276), (150, 7303), (162, 7348), (175, 7408), (196, 7534), (208, 7624), (209, 7636), (211, 7672),

Gene: Conquerage_11 Start: 6176, Stop: 7756, Start Num: 6

Candidate Starts for Conquerage_11:

(Start: 6 @6176 has 46 MA's), (9, 6227), (18, 6317), (19, 6320), (36, 6506), (38, 6527), (94, 6950), (98, 7001), (105, 7118), (118, 7202), (122, 7226), (128, 7253), (139, 7343), (152, 7415), (167, 7475), (188, 7571), (193, 7616), (196, 7634),

Gene: Crucio_9 Start: 4694, Stop: 5941, Start Num: 4

Candidate Starts for Crucio_9:

(Start: 4 @4694 has 67 MA's), (7, 4706), (8, 4739), (15, 4826), (20, 4850), (27, 4943), (32, 4985), (34, 5000), (40, 5045), (41, 5051), (43, 5072), (44, 5075), (64, 5222), (100, 5342), (144, 5561), (150, 5591), (157, 5615), (162, 5639), (187, 5738), (197, 5804), (199, 5810), (208, 5867),

Gene: D12_35 Start: 36653, Stop: 38275, Start Num: 5

Candidate Starts for D12_35:

(Start: 5 @36653 has 26 MA's), (7, 36659), (10, 36722), (18, 36800), (21, 36818), (22, 36872), (28, 36920), (33, 36971), (36, 37007), (38, 37028), (47, 37082), (53, 37169), (55, 37208), (75, 37346), (78, 37367), (80, 37385), (87, 37427), (96, 37490), (101, 37574), (121, 37721), (122, 37727), (139, 37853), (141, 37865), (147, 37895), (156, 37934), (161, 37955), (170, 37988), (172, 37997), (174, 38012), (182, 38060), (192, 38111), (196, 38147), (200, 38162), (208, 38213), (213, 38270),

Gene: D29_10 Start: 4697, Stop: 6178, Start Num: 4

Candidate Starts for D29_10:

(Start: 4 @4697 has 67 MA's), (8, 4742), (32, 4988), (40, 5048), (41, 5054), (43, 5075), (50, 5129), (51, 5135), (76, 5303), (83, 5354), (103, 5504), (113, 5585), (143, 5774), (150, 5816), (165, 5879), (187, 5978), (208, 6107),

Gene: D32_12 Start: 4697, Stop: 6178, Start Num: 4

Candidate Starts for D32_12:

(Start: 4 @4697 has 67 MA's), (8, 4742), (32, 4988), (40, 5048), (41, 5054), (43, 5075), (50, 5129), (51, 5135), (76, 5303), (83, 5354), (103, 5504), (113, 5585), (143, 5774), (150, 5816), (165, 5879), (187, 5978), (208, 6107),

Gene: DBQu4n_12 Start: 4697, Stop: 6178, Start Num: 4

Candidate Starts for DBQu4n_12:

(Start: 4 @4697 has 67 MA's), (8, 4742), (32, 4988), (40, 5048), (41, 5054), (43, 5075), (51, 5135), (76, 5303), (83, 5354), (103, 5504), (113, 5585), (143, 5774), (150, 5816), (165, 5879), (187, 5978), (208,

6107),

Gene: Dalmatian_9 Start: 4796, Stop: 6088, Start Num: 4

Candidate Starts for Dalmatian_9:

(Start: 4 @4796 has 67 MA's), (7, 4808), (8, 4841), (15, 4928), (20, 4952), (27, 5045), (32, 5087), (34, 5102), (40, 5147), (41, 5153), (43, 5174), (54, 5264), (64, 5324), (71, 5330), (100, 5444), (144, 5663), (150, 5696), (162, 5741), (175, 5801), (184, 5846), (196, 5927), (209, 6029),

Gene: Darrell_12 Start: 6369, Stop: 7949, Start Num: 6

Candidate Starts for Darrell_12:

(Start: 6 @6369 has 46 MA's), (9, 6420), (18, 6510), (19, 6513), (24, 6582), (36, 6699), (38, 6720), (49, 6810), (67, 6981), (85, 7071), (94, 7143), (98, 7194), (105, 7311), (122, 7419), (139, 7536), (152, 7608), (158, 7629), (167, 7668), (188, 7764), (196, 7827),

Gene: Deloris_10 Start: 5133, Stop: 6422, Start Num: 4

Candidate Starts for Deloris_10:

(Start: 4 @5133 has 67 MA's), (8, 5178), (15, 5265), (27, 5382), (32, 5424), (34, 5439), (40, 5484), (41, 5490), (43, 5511), (45, 5517), (88, 5742), (100, 5790), (144, 6009), (150, 6042), (175, 6147), (197, 6276),

Gene: Drake55_11 Start: 5205, Stop: 6509, Start Num: 4

Candidate Starts for Drake55_11:

(Start: 4 @5205 has 67 MA's), (8, 5250), (15, 5337), (32, 5496), (40, 5556), (41, 5562), (43, 5583), (51, 5643), (63, 5742), (64, 5745), (88, 5817), (144, 6084), (150, 6117), (163, 6171), (175, 6222), (184, 6267), (188, 6285),

Gene: DreamTeam1_10 Start: 4360, Stop: 5916, Start Num: 6

Candidate Starts for DreamTeam1_10:

(Start: 6 @4360 has 46 MA's), (18, 4501), (36, 4690), (38, 4711), (42, 4741), (98, 5185), (106, 5281), (131, 5422), (151, 5563), (152, 5569), (167, 5635), (188, 5731),

Gene: DudeLittle_9 Start: 4798, Stop: 6090, Start Num: 4

Candidate Starts for DudeLittle_9:

(Start: 4 @4798 has 67 MA's), (7, 4810), (8, 4843), (15, 4930), (20, 4954), (27, 5047), (32, 5089), (34, 5104), (40, 5149), (41, 5155), (43, 5176), (44, 5179), (54, 5266), (64, 5326), (71, 5332), (100, 5446), (144, 5665), (150, 5698), (162, 5743), (175, 5803), (184, 5848), (196, 5929), (209, 6031),

Gene: Duplo_12 Start: 4738, Stop: 6219, Start Num: 4

Candidate Starts for Duplo_12:

(Start: 4 @4738 has 67 MA's), (8, 4783), (32, 5029), (40, 5089), (41, 5095), (43, 5116), (50, 5170), (51, 5176), (76, 5344), (83, 5395), (103, 5545), (113, 5626), (143, 5815), (150, 5857), (165, 5920), (187, 6019), (208, 6148),

Gene: EZMoney23_13 Start: 6684, Stop: 7985, Start Num: 4

Candidate Starts for EZMoney23_13:

(Start: 4 @6684 has 67 MA's), (7, 6696), (8, 6729), (15, 6816), (27, 6933), (32, 6975), (40, 7035), (41, 7041), (43, 7062), (45, 7068), (54, 7161), (58, 7182), (71, 7230), (88, 7296), (144, 7563), (150, 7596), (175, 7701), (184, 7746), (196, 7827), (209, 7929),

Gene: EagleEye_12 Start: 5895, Stop: 7142, Start Num: 4

Candidate Starts for EagleEye_12:

(Start: 4 @5895 has 67 MA's), (8, 5940), (15, 6027), (29, 6159), (32, 6186), (34, 6201), (40, 6246), (41, 6252), (43, 6273), (45, 6279), (51, 6333), (54, 6372), (64, 6435), (71, 6441), (88, 6507), (100, 6555),

(144, 6774), (148, 6801), (157, 6825), (162, 6849), (187, 6942), (197, 7008), (201, 7026),

Gene: Ebony_10 Start: 6285, Stop: 7682, Start Num: 6

Candidate Starts for Ebony_10:

(Start: 6 @6285 has 46 MA's), (17, 6423), (18, 6429), (21, 6447), (31, 6567), (36, 6618), (38, 6639), (43, 6672), (73, 6819), (85, 6882), (86, 6888), (111, 7032), (122, 7113), (128, 7140), (160, 7344), (164, 7365), (171, 7389), (178, 7449), (188, 7482), (197, 7548), (210, 7644),

Gene: EdogawaKiddo_9 Start: 6146, Stop: 7726, Start Num: 6

Candidate Starts for EdogawaKiddo_9:

(Start: 6 @6146 has 46 MA's), (9, 6197), (18, 6287), (19, 6290), (21, 6305), (36, 6476), (37, 6488), (38, 6497), (67, 6758), (94, 6920), (98, 6971), (105, 7088), (139, 7313), (152, 7385), (167, 7445), (188, 7541), (193, 7586), (196, 7604),

Gene: Eidsmoe_11 Start: 6176, Stop: 7756, Start Num: 6

Candidate Starts for Eidsmoe_11:

(Start: 6 @6176 has 46 MA's), (9, 6227), (18, 6317), (19, 6320), (36, 6506), (38, 6527), (94, 6950), (98, 7001), (105, 7118), (118, 7202), (122, 7226), (128, 7253), (139, 7343), (152, 7415), (167, 7475), (188, 7571), (193, 7616), (196, 7634),

Gene: Elephantoon_11 Start: 5798, Stop: 7378, Start Num: 6

Candidate Starts for Elephantoon_11:

(Start: 6 @5798 has 46 MA's), (9, 5849), (18, 5939), (21, 5957), (24, 6011), (36, 6128), (38, 6149), (67, 6410), (85, 6500), (94, 6572), (98, 6623), (122, 6848), (139, 6965), (152, 7037), (158, 7058), (167, 7097), (188, 7193),

Gene: EmyBug_11 Start: 6176, Stop: 7756, Start Num: 6

Candidate Starts for EmyBug_11:

(Start: 6 @6176 has 46 MA's), (9, 6227), (18, 6317), (19, 6320), (21, 6335), (36, 6506), (38, 6527), (67, 6788), (94, 6950), (98, 7001), (105, 7118), (139, 7343), (152, 7415), (167, 7475), (188, 7571), (193, 7616), (196, 7634),

Gene: Equemioh13_11 Start: 5191, Stop: 6495, Start Num: 4

Candidate Starts for Equemioh13_11:

(Start: 4 @5191 has 67 MA's), (8, 5236), (15, 5323), (32, 5482), (40, 5542), (41, 5548), (43, 5569), (44, 5572), (51, 5629), (63, 5728), (64, 5731), (88, 5803), (100, 5851), (144, 6070), (150, 6103), (163, 6157), (175, 6208), (184, 6253), (188, 6271), (203, 6388),

Gene: Et2Brutus_9 Start: 6227, Stop: 7627, Start Num: 5

Candidate Starts for Et2Brutus_9:

(1, 6188), (Start: 5 @6227 has 26 MA's), (17, 6368), (18, 6374), (21, 6392), (31, 6512), (36, 6563), (38, 6584), (43, 6617), (73, 6764), (85, 6827), (86, 6833), (111, 6977), (122, 7058), (128, 7085), (160, 7289), (164, 7310), (171, 7334), (178, 7394), (188, 7427), (197, 7493), (210, 7589),

Gene: ExplosioNervosa_11 Start: 6179, Stop: 7759, Start Num: 6

Candidate Starts for ExplosioNervosa_11:

(Start: 6 @6179 has 46 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (36, 6509), (38, 6530), (67, 6791), (94, 6953), (98, 7004), (105, 7121), (139, 7346), (152, 7418), (167, 7478), (188, 7574), (193, 7619), (196, 7637),

Gene: Fameo_9 Start: 4800, Stop: 6035, Start Num: 4

Candidate Starts for Fameo_9:

(Start: 4 @4800 has 67 MA's), (7, 4812), (8, 4845), (15, 4932), (20, 4956), (27, 5049), (32, 5091), (40, 5151), (41, 5157), (43, 5178), (45, 5184), (54, 5268), (64, 5328), (71, 5334), (88, 5400), (100, 5448), (144, 5667), (150, 5697), (157, 5721), (187, 5835), (197, 5901), (202, 5925),

Gene: FatCactus_8 Start: 3796, Stop: 5175, Start Num: 4

Candidate Starts for FatCactus_8:

(Start: 4 @3796 has 67 MA's), (8, 3841), (20, 3952), (32, 4087), (35, 4120), (40, 4147), (41, 4153), (43, 4174), (58, 4294), (84, 4453), (115, 4615), (136, 4702), (168, 4894), (169, 4897), (179, 4957), (180, 4960),

Gene: Fayely_11 Start: 6179, Stop: 7759, Start Num: 6

Candidate Starts for Fayely_11:

(Start: 6 @6179 has 46 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (36, 6509), (38, 6530), (67, 6791), (94, 6953), (98, 7004), (105, 7121), (139, 7346), (152, 7418), (167, 7478), (188, 7574), (193, 7619), (196, 7637),

Gene: Fibonacci_10 Start: 6227, Stop: 7627, Start Num: 5

Candidate Starts for Fibonacci_10:

(1, 6188), (Start: 5 @6227 has 26 MA's), (17, 6368), (18, 6374), (21, 6392), (31, 6512), (36, 6563), (38, 6584), (43, 6617), (73, 6764), (85, 6827), (86, 6833), (111, 6977), (122, 7058), (128, 7085), (160, 7289), (164, 7310), (171, 7334), (178, 7394), (188, 7427), (197, 7493), (210, 7589),

Gene: FiringLine_9 Start: 4694, Stop: 5941, Start Num: 4

Candidate Starts for FiringLine_9:

(Start: 4 @4694 has 67 MA's), (7, 4706), (8, 4739), (14, 4823), (15, 4826), (20, 4850), (27, 4943), (32, 4985), (34, 5000), (40, 5045), (41, 5051), (43, 5072), (44, 5075), (64, 5222), (100, 5342), (144, 5561), (150, 5591), (157, 5615), (162, 5639), (187, 5738), (197, 5804), (199, 5810), (208, 5867),

Gene: First_009 Start: 4690, Stop: 5988, Start Num: 4

Candidate Starts for First_009:

(Start: 4 @4690 has 67 MA's), (8, 4735), (15, 4822), (20, 4846), (27, 4939), (32, 4981), (40, 5041), (41, 5047), (43, 5068), (45, 5074), (64, 5230), (88, 5302), (100, 5350), (144, 5569), (150, 5602), (175, 5707),

Gene: Flare16_9 Start: 4749, Stop: 6053, Start Num: 4

Candidate Starts for Flare16_9:

(Start: 4 @4749 has 67 MA's), (7, 4761), (8, 4794), (15, 4881), (29, 5013), (32, 5040), (40, 5100), (41, 5106), (43, 5127), (51, 5187), (63, 5286), (64, 5289), (88, 5361), (100, 5409), (144, 5628), (150, 5661), (163, 5715), (175, 5766), (184, 5811), (188, 5829),

Gene: Flaverint_10 Start: 6224, Stop: 7624, Start Num: 5

Candidate Starts for Flaverint_10:

(1, 6185), (Start: 5 @6224 has 26 MA's), (18, 6371), (21, 6389), (31, 6509), (36, 6560), (38, 6581), (43, 6614), (73, 6761), (85, 6824), (86, 6830), (111, 6974), (122, 7055), (128, 7082), (160, 7286), (164, 7307), (171, 7331), (178, 7391), (188, 7424), (197, 7490), (210, 7586),

Gene: FlyCatcher_12 Start: 5649, Stop: 7097, Start Num: 4

Candidate Starts for FlyCatcher_12:

(Start: 4 @5649 has 67 MA's), (8, 5694), (15, 5781), (27, 5898), (31, 5937), (32, 5940), (40, 6000), (41, 6006), (43, 6027), (45, 6033), (51, 6081), (60, 6174), (76, 6246), (83, 6297), (103, 6447), (112, 6507), (113, 6528), (129, 6618), (133, 6645), (145, 6732), (149, 6759), (155, 6780), (162, 6804), (178, 6864), (179, 6867), (187, 6897), (191, 6921), (197, 6963), (198, 6966), (205, 7002), (207, 7008), (212, 7080),

Gene: Gail_9 Start: 4567, Stop: 6147, Start Num: 6

Candidate Starts for Gail_9:

(Start: 6 @4567 has 46 MA's), (18, 4708), (19, 4711), (36, 4897), (38, 4918), (43, 4951), (46, 4969), (85, 5269), (93, 5329), (94, 5341), (98, 5392), (105, 5509), (126, 5635), (139, 5734), (152, 5806), (158, 5827), (167, 5869), (188, 5965),

Gene: Georgie2_9 Start: 4695, Stop: 5942, Start Num: 4

Candidate Starts for Georgie2_9:

(Start: 4 @4695 has 67 MA's), (7, 4707), (8, 4740), (15, 4827), (20, 4851), (27, 4944), (32, 4986), (34, 5001), (40, 5046), (41, 5052), (43, 5073), (44, 5076), (64, 5223), (100, 5343), (144, 5562), (150, 5592), (157, 5616), (162, 5640), (187, 5739), (197, 5805), (199, 5811), (208, 5868),

Gene: Gilberta_10 Start: 6221, Stop: 7621, Start Num: 5

Candidate Starts for Gilberta_10:

(1, 6182), (Start: 5 @6221 has 26 MA's), (18, 6368), (21, 6386), (31, 6506), (36, 6557), (38, 6578), (43, 6611), (73, 6758), (85, 6821), (86, 6827), (111, 6971), (122, 7052), (128, 7079), (160, 7283), (164, 7304), (171, 7328), (178, 7388), (188, 7421), (197, 7487), (210, 7583),

Gene: GodPhather_37 Start: 36847, Stop: 38469, Start Num: 5

Candidate Starts for GodPhather_37:

(Start: 5 @36847 has 26 MA's), (7, 36853), (10, 36916), (18, 36994), (21, 37012), (22, 37066), (28, 37114), (33, 37165), (36, 37201), (38, 37222), (47, 37276), (49, 37315), (53, 37363), (55, 37402), (75, 37540), (80, 37579), (87, 37621), (96, 37684), (101, 37768), (121, 37915), (122, 37921), (139, 38047), (141, 38059), (147, 38089), (156, 38128), (161, 38149), (170, 38182), (172, 38191), (174, 38206), (182, 38254), (192, 38305), (196, 38341), (200, 38356), (208, 38407),

Gene: Gratitude_10 Start: 5191, Stop: 6495, Start Num: 4

Candidate Starts for Gratitude_10:

(Start: 4 @5191 has 67 MA's), (8, 5236), (15, 5323), (32, 5482), (40, 5542), (41, 5548), (43, 5569), (44, 5572), (51, 5629), (63, 5728), (64, 5731), (88, 5803), (100, 5851), (144, 6070), (150, 6103), (163, 6157), (175, 6208), (184, 6253), (188, 6271), (203, 6388),

Gene: Hanray_10 Start: 6182, Stop: 7762, Start Num: 6

Candidate Starts for Hanray_10:

(Start: 6 @6182 has 46 MA's), (9, 6233), (18, 6323), (19, 6326), (21, 6341), (36, 6512), (37, 6524), (38, 6533), (67, 6794), (94, 6956), (98, 7007), (105, 7124), (139, 7349), (152, 7421), (167, 7481), (188, 7577), (193, 7622), (196, 7640),

Gene: HarryHoudini_11 Start: 5205, Stop: 6509, Start Num: 4

Candidate Starts for HarryHoudini_11:

(Start: 4 @5205 has 67 MA's), (8, 5250), (15, 5337), (32, 5496), (40, 5556), (41, 5562), (43, 5583), (51, 5643), (63, 5742), (64, 5745), (88, 5817), (144, 6084), (150, 6117), (163, 6171), (175, 6222), (184, 6267), (188, 6285),

Gene: Heffalump_11 Start: 6599, Stop: 7834, Start Num: 4

Candidate Starts for Heffalump_11:

(Start: 4 @6599 has 67 MA's), (7, 6611), (8, 6644), (15, 6731), (20, 6755), (27, 6848), (32, 6890), (40, 6950), (41, 6956), (43, 6977), (45, 6983), (54, 7067), (64, 7127), (71, 7133), (88, 7199), (100, 7247), (144, 7466), (150, 7496), (157, 7520), (187, 7634), (197, 7700), (202, 7724),

Gene: HippoHollow_10 Start: 6245, Stop: 7762, Start Num: 4

Candidate Starts for HippoHollow_10:

(Start: 4 @6245 has 67 MA's), (8, 6290), (15, 6377), (25, 6470), (32, 6536), (34, 6551), (40, 6596), (41, 6602), (43, 6623), (45, 6629), (81, 6878), (83, 6893), (117, 7151), (134, 7241), (150, 7370), (175, 7475), (184, 7520), (188, 7538), (196, 7601),

Gene: Horex_10 Start: 6182, Stop: 7762, Start Num: 6

Candidate Starts for Horex_10:

(Start: 6 @6182 has 46 MA's), (9, 6233), (18, 6323), (19, 6326), (21, 6341), (36, 6512), (37, 6524), (38, 6533), (67, 6794), (94, 6956), (98, 7007), (105, 7124), (139, 7349), (152, 7421), (167, 7481), (188, 7577), (193, 7622), (196, 7640),

Gene: HortumSL17_11 Start: 6146, Stop: 7726, Start Num: 6

Candidate Starts for HortumSL17_11:

(Start: 6 @6146 has 46 MA's), (9, 6197), (18, 6287), (19, 6290), (36, 6476), (38, 6497), (67, 6758), (94, 6920), (98, 6971), (105, 7088), (139, 7313), (152, 7385), (167, 7445), (188, 7541), (193, 7586), (196, 7604),

Gene: Hutc2_10 Start: 6227, Stop: 7627, Start Num: 5

Candidate Starts for Hutc2_10:

(1, 6188), (Start: 5 @6227 has 26 MA's), (17, 6368), (18, 6374), (21, 6392), (31, 6512), (36, 6563), (38, 6584), (43, 6617), (73, 6764), (85, 6827), (86, 6833), (111, 6977), (122, 7058), (128, 7085), (160, 7289), (164, 7310), (171, 7334), (178, 7394), (188, 7427), (197, 7493), (210, 7589),

Gene: Insomnia_10 Start: 6279, Stop: 7676, Start Num: 6

Candidate Starts for Insomnia_10:

(Start: 6 @6279 has 46 MA's), (17, 6417), (18, 6423), (21, 6441), (31, 6561), (36, 6612), (38, 6633), (43, 6666), (73, 6813), (85, 6876), (86, 6882), (111, 7026), (122, 7107), (128, 7134), (160, 7338), (164, 7359), (171, 7383), (178, 7443), (188, 7476), (197, 7542), (210, 7638),

Gene: Iwokeuplikedis_9 Start: 4489, Stop: 5760, Start Num: 4

Candidate Starts for Iwokeuplikedis_9:

(Start: 4 @4489 has 67 MA's), (8, 4534), (15, 4621), (32, 4780), (33, 4792), (35, 4813), (40, 4840), (41, 4846), (43, 4867), (45, 4873), (54, 4966), (88, 5098), (100, 5146), (144, 5365), (150, 5398), (157, 5422), (187, 5560), (189, 5569),

Gene: Jabith_10 Start: 6279, Stop: 7676, Start Num: 6

Candidate Starts for Jabith_10:

(Start: 6 @6279 has 46 MA's), (17, 6417), (18, 6423), (21, 6441), (31, 6561), (36, 6612), (38, 6633), (43, 6666), (73, 6813), (85, 6876), (86, 6882), (111, 7026), (122, 7107), (128, 7134), (160, 7338), (164, 7359), (171, 7383), (178, 7443), (188, 7476), (197, 7542), (210, 7638),

Gene: Jeeves_9 Start: 4583, Stop: 6160, Start Num: 6

Candidate Starts for Jeeves_9:

(Start: 6 @4583 has 46 MA's), (18, 4724), (19, 4727), (36, 4913), (38, 4934), (46, 4985), (78, 5246), (85, 5285), (94, 5357), (97, 5393), (98, 5408), (105, 5525), (126, 5651), (139, 5750), (152, 5822), (154, 5837), (167, 5882), (188, 5978), (193, 6023),

Gene: Jeon_36 Start: 36589, Stop: 38211, Start Num: 5

Candidate Starts for Jeon_36:

(Start: 5 @36589 has 26 MA's), (7, 36595), (10, 36658), (18, 36736), (21, 36754), (22, 36808), (28, 36856), (33, 36907), (36, 36943), (38, 36964), (47, 37018), (49, 37057), (53, 37105), (55, 37144), (75, 37282), (80, 37321), (87, 37363), (96, 37426), (101, 37510), (121, 37657), (122, 37663), (139, 37789), (141, 37801), (147, 37831), (156, 37870), (161, 37891), (170, 37924), (172, 37933), (174, 37948), (182, 37996), (192, 38047), (196, 38083), (200, 38098), (208, 38149),

Gene: Jiawan_10 Start: 6182, Stop: 7762, Start Num: 6

Candidate Starts for Jiawan_10:

(Start: 6 @6182 has 46 MA's), (9, 6233), (18, 6323), (19, 6326), (21, 6341), (36, 6512), (37, 6524), (38, 6533), (67, 6794), (94, 6956), (98, 7007), (105, 7124), (139, 7349), (152, 7421), (167, 7481), (188, 7577), (193, 7622), (196, 7640),

Gene: Joselito_10 Start: 6224, Stop: 7624, Start Num: 5

Candidate Starts for Joselito_10:

(1, 6185), (Start: 5 @6224 has 26 MA's), (18, 6371), (21, 6389), (31, 6509), (36, 6560), (38, 6581), (43, 6614), (73, 6761), (85, 6824), (86, 6830), (111, 6974), (122, 7055), (128, 7082), (160, 7286), (164, 7307), (171, 7331), (178, 7391), (188, 7424), (197, 7490), (210, 7586),

Gene: Journey13_7 Start: 4346, Stop: 5233, Start Num: 4

Candidate Starts for Journey13_7:

(Start: 4 @4346 has 67 MA's), (8, 4391), (15, 4478), (20, 4502), (27, 4595), (32, 4637), (40, 4697), (41, 4703), (43, 4724), (45, 4730), (51, 4778), (70, 4877), (76, 4886), (89, 4943), (107, 5024), (110, 5033), (124, 5099),

Gene: Jsquared_8 Start: 4286, Stop: 5164, Start Num: 4

Candidate Starts for Jsquared_8:

(Start: 4 @4286 has 67 MA's), (8, 4331), (13, 4394), (15, 4418), (32, 4577), (40, 4637), (41, 4643), (43, 4664), (45, 4670), (74, 4823), (79, 4847), (109, 4964), (124, 5030), (125, 5033), (130, 5048), (132, 5054), (135, 5069), (142, 5126),

Gene: Kalpine_12 Start: 6504, Stop: 7799, Start Num: 4

Candidate Starts for Kalpine_12:

(Start: 4 @6504 has 67 MA's), (7, 6516), (8, 6549), (15, 6636), (20, 6660), (27, 6753), (32, 6795), (34, 6810), (40, 6855), (41, 6861), (43, 6882), (45, 6888), (100, 7161), (144, 7380), (150, 7407), (162, 7452), (173, 7494), (175, 7512), (184, 7557), (196, 7638), (208, 7728), (209, 7740),

Gene: Kerberos_12 Start: 4697, Stop: 6178, Start Num: 4

Candidate Starts for Kerberos_12:

(Start: 4 @4697 has 67 MA's), (8, 4742), (32, 4988), (40, 5048), (41, 5054), (43, 5075), (51, 5135), (76, 5303), (83, 5354), (103, 5504), (113, 5585), (143, 5774), (150, 5816), (165, 5879), (187, 5978), (208, 6107),

Gene: Keziacharles14_9 Start: 4347, Stop: 5900, Start Num: 6

Candidate Starts for Keziacharles14_9:

(Start: 6 @4347 has 46 MA's), (10, 4413), (18, 4488), (21, 4506), (36, 4677), (38, 4698), (78, 5010), (85, 5049), (97, 5157), (98, 5172), (106, 5268), (113, 5310), (123, 5379), (128, 5394), (131, 5409), (167, 5619), (188, 5715), (190, 5736), (193, 5760),

Gene: Kimba_10 Start: 6279, Stop: 7676, Start Num: 6

Candidate Starts for Kimba_10:

(Start: 6 @6279 has 46 MA's), (17, 6417), (18, 6423), (21, 6441), (31, 6561), (36, 6612), (38, 6633), (43, 6666), (73, 6813), (85, 6876), (86, 6882), (111, 7026), (122, 7107), (128, 7134), (160, 7338), (164, 7359), (171, 7383), (178, 7443), (188, 7476), (197, 7542), (210, 7638),

Gene: Klodlith_10 Start: 4360, Stop: 5916, Start Num: 6

Candidate Starts for Klodlith_10:

(Start: 6 @4360 has 46 MA's), (18, 4501), (36, 4690), (38, 4711), (42, 4741), (98, 5185), (106, 5281), (131, 5422), (151, 5563), (152, 5569), (167, 5635), (188, 5731),

Gene: Koduck_9 Start: 4573, Stop: 5451, Start Num: 4

Candidate Starts for Koduck_9:

(Start: 4 @4573 has 67 MA's), (8, 4618), (13, 4681), (15, 4705), (27, 4822), (30, 4846), (31, 4861), (32, 4864), (39, 4921), (40, 4924), (41, 4930), (45, 4957), (74, 5110), (79, 5134), (109, 5251), (124, 5317), (125, 5320), (130, 5335), (132, 5341), (135, 5356),

Gene: L5_10 Start: 4581, Stop: 5459, Start Num: 4

Candidate Starts for L5_10:

(Start: 4 @4581 has 67 MA's), (8, 4626), (13, 4689), (15, 4713), (27, 4830), (30, 4854), (31, 4869), (32, 4872), (39, 4929), (40, 4932), (41, 4938), (45, 4965), (74, 5118), (79, 5142), (109, 5259), (124, 5325), (125, 5328), (130, 5343), (132, 5349), (135, 5364),

Gene: LadyBird_9 Start: 4681, Stop: 5976, Start Num: 4

Candidate Starts for LadyBird_9:

(Start: 4 @4681 has 67 MA's), (8, 4726), (15, 4813), (20, 4837), (32, 4972), (40, 5032), (41, 5038), (43, 5059), (45, 5065), (88, 5293), (100, 5341), (144, 5560), (150, 5593), (175, 5698), (185, 5746),

Gene: Lilleskat_9 Start: 6146, Stop: 7726, Start Num: 6

Candidate Starts for Lilleskat_9:

(Start: 6 @6146 has 46 MA's), (18, 6287), (19, 6290), (21, 6305), (36, 6476), (37, 6488), (38, 6497), (67, 6758), (94, 6920), (98, 6971), (105, 7088), (139, 7313), (152, 7385), (167, 7445), (188, 7541), (193, 7586), (196, 7604),

Gene: LionsBait_10 Start: 6239, Stop: 7756, Start Num: 4

Candidate Starts for LionsBait_10:

(Start: 4 @6239 has 67 MA's), (8, 6284), (15, 6371), (25, 6464), (32, 6530), (34, 6545), (40, 6590), (41, 6596), (43, 6617), (45, 6623), (81, 6872), (83, 6887), (117, 7145), (134, 7235), (150, 7364), (175, 7469), (184, 7514), (188, 7532), (196, 7595),

Gene: LoneWolf_11 Start: 5993, Stop: 7573, Start Num: 6

Candidate Starts for LoneWolf_11:

(Start: 6 @5993 has 46 MA's), (9, 6044), (18, 6134), (19, 6137), (21, 6152), (24, 6206), (36, 6323), (37, 6335), (38, 6344), (67, 6605), (94, 6767), (98, 6818), (105, 6935), (139, 7160), (152, 7232), (167, 7292), (188, 7388), (193, 7433), (196, 7451),

Gene: Loser_12 Start: 6404, Stop: 7858, Start Num: 4

Candidate Starts for Loser_12:

(Start: 4 @6404 has 67 MA's), (7, 6416), (15, 6536), (27, 6653), (32, 6695), (40, 6755), (41, 6761), (43, 6782), (44, 6785), (66, 6968), (83, 7055), (102, 7202), (103, 7205), (113, 7286), (143, 7475), (150, 7517), (153, 7535), (157, 7541), (187, 7658), (197, 7724), (205, 7763),

Gene: Luchador_9 Start: 4568, Stop: 6148, Start Num: 6

Candidate Starts for Luchador_9:

(Start: 6 @4568 has 46 MA's), (18, 4709), (19, 4712), (36, 4898), (38, 4919), (43, 4952), (46, 4970), (78, 5231), (85, 5270), (93, 5330), (94, 5342), (98, 5393), (105, 5510), (126, 5636), (139, 5735), (152, 5807), (158, 5828), (167, 5870), (188, 5966), (193, 6011),

Gene: Lucivia_10 Start: 6276, Stop: 7673, Start Num: 6

Candidate Starts for Lucivia_10:

(Start: 6 @6276 has 46 MA's), (17, 6414), (18, 6420), (21, 6438), (31, 6558), (36, 6609), (38, 6630), (43, 6663), (73, 6810), (85, 6873), (86, 6879), (111, 7023), (122, 7104), (128, 7131), (160, 7335), (164, 7356), (171, 7380), (178, 7440), (188, 7473), (197, 7539), (210, 7635),

Gene: MaCh_10 Start: 6221, Stop: 7621, Start Num: 5

Candidate Starts for MaCh_10:

(1, 6182), (Start: 5 @6221 has 26 MA's), (18, 6368), (21, 6386), (31, 6506), (36, 6557), (38, 6578), (43, 6611), (73, 6758), (85, 6821), (86, 6827), (111, 6971), (122, 7052), (128, 7079), (160, 7283), (164, 7304), (171, 7328), (178, 7388), (188, 7421), (197, 7487), (210, 7583),

Gene: Mabel_10 Start: 6291, Stop: 7688, Start Num: 6

Candidate Starts for Mabel_10:

(Start: 6 @6291 has 46 MA's), (17, 6429), (18, 6435), (21, 6453), (31, 6573), (36, 6624), (38, 6645), (43, 6678), (73, 6825), (85, 6888), (86, 6894), (111, 7038), (122, 7119), (128, 7146), (160, 7350), (164, 7371), (171, 7395), (178, 7455), (188, 7488), (197, 7554), (210, 7650),

Gene: MajorMajor_8 Start: 4332, Stop: 5210, Start Num: 4

Candidate Starts for MajorMajor_8:

(Start: 4 @4332 has 67 MA's), (8, 4377), (13, 4440), (15, 4464), (32, 4623), (40, 4683), (41, 4689), (43, 4710), (45, 4716), (74, 4869), (79, 4893), (109, 5010), (124, 5076), (125, 5079), (130, 5094), (132, 5100), (135, 5115), (142, 5172),

Gene: Maminiaina_11 Start: 5916, Stop: 7496, Start Num: 6

Candidate Starts for Maminiaina_11:

(Start: 6 @5916 has 46 MA's), (9, 5967), (18, 6057), (21, 6075), (36, 6246), (38, 6267), (67, 6528), (94, 6690), (98, 6741), (105, 6858), (152, 7155), (167, 7215), (188, 7311), (193, 7356), (196, 7374),

Gene: Megabear_36 Start: 36026, Stop: 37648, Start Num: 5

Candidate Starts for Megabear_36:

(Start: 5 @36026 has 26 MA's), (7, 36032), (10, 36095), (18, 36173), (21, 36191), (22, 36245), (28, 36293), (33, 36344), (36, 36380), (38, 36401), (47, 36455), (53, 36542), (55, 36581), (75, 36719), (80, 36758), (87, 36800), (96, 36863), (101, 36947), (121, 37094), (122, 37100), (139, 37226), (141, 37238), (147, 37268), (156, 37307), (161, 37328), (170, 37361), (172, 37370), (174, 37385), (182, 37433), (192, 37484), (196, 37520), (200, 37535), (208, 37586), (213, 37643),

Gene: MiculUcigas_9 Start: 4749, Stop: 6053, Start Num: 4

Candidate Starts for MiculUcigas_9:

(Start: 4 @4749 has 67 MA's), (7, 4761), (8, 4794), (15, 4881), (29, 5013), (32, 5040), (40, 5100), (41, 5106), (43, 5127), (51, 5187), (63, 5286), (64, 5289), (88, 5361), (100, 5409), (144, 5628), (150, 5661), (163, 5715), (175, 5766), (184, 5811), (188, 5829),

Gene: Minispark_8 Start: 4273, Stop: 5823, Start Num: 6

Candidate Starts for Minispark_8:

(Start: 6 @4273 has 46 MA's), (12, 4366), (18, 4414), (21, 4432), (26, 4495), (36, 4603), (38, 4624), (67, 4885), (85, 4975), (98, 5098), (113, 5236), (131, 5335), (152, 5482), (159, 5512), (167, 5542), (188, 5638),

Gene: MissWhite_9 Start: 4390, Stop: 5277, Start Num: 4

Candidate Starts for MissWhite_9:

(Start: 4 @4390 has 67 MA's), (8, 4435), (15, 4522), (27, 4639), (31, 4678), (32, 4681), (40, 4741), (41, 4747), (43, 4768), (45, 4774), (51, 4822), (70, 4921), (76, 4930), (89, 4987), (107, 5068), (110, 5077),

Gene: Mulciber_10 Start: 6227, Stop: 7627, Start Num: 5

Candidate Starts for Mulciber_10:

(1, 6188), (Start: 5 @6227 has 26 MA's), (17, 6368), (18, 6374), (21, 6392), (31, 6512), (36, 6563), (38, 6584), (43, 6617), (73, 6764), (85, 6827), (86, 6833), (111, 6977), (122, 7058), (128, 7085), (160,

7289), (164, 7310), (171, 7334), (178, 7394), (188, 7427), (197, 7493), (210, 7589),

Gene: Munch_10 Start: 6224, Stop: 7624, Start Num: 5

Candidate Starts for Munch_10:

(1, 6185), (Start: 5 @6224 has 26 MA's), (18, 6371), (21, 6389), (31, 6509), (36, 6560), (38, 6581), (43, 6614), (73, 6761), (85, 6824), (86, 6830), (111, 6974), (122, 7055), (128, 7082), (160, 7286), (164, 7307), (171, 7331), (178, 7391), (188, 7424), (197, 7490), (210, 7586),

Gene: Myxus_11 Start: 6146, Stop: 7726, Start Num: 6

Candidate Starts for Myxus_11:

(Start: 6 @6146 has 46 MA's), (9, 6197), (18, 6287), (19, 6290), (36, 6476), (38, 6497), (67, 6758), (94, 6920), (98, 6971), (105, 7088), (139, 7313), (152, 7385), (167, 7445), (188, 7541), (193, 7586), (196, 7604),

Gene: NaSiaTalie_9 Start: 4749, Stop: 6050, Start Num: 4

Candidate Starts for NaSiaTalie_9:

(Start: 4 @4749 has 67 MA's), (8, 4794), (15, 4881), (32, 5040), (40, 5100), (41, 5106), (43, 5127), (63, 5283), (64, 5286), (88, 5358), (100, 5406), (144, 5625), (150, 5658), (163, 5712), (175, 5763), (184, 5808), (188, 5826),

Gene: Naji_12 Start: 4697, Stop: 6178, Start Num: 4

Candidate Starts for Naji_12:

(Start: 4 @4697 has 67 MA's), (8, 4742), (32, 4988), (40, 5048), (41, 5054), (43, 5075), (50, 5129), (51, 5135), (76, 5303), (83, 5354), (103, 5504), (113, 5585), (143, 5774), (150, 5816), (165, 5879), (187, 5978), (208, 6107),

Gene: NicoleTera_13 Start: 6467, Stop: 7756, Start Num: 4

Candidate Starts for NicoleTera_13:

(Start: 4 @6467 has 67 MA's), (8, 6512), (15, 6599), (27, 6716), (32, 6758), (35, 6791), (40, 6818), (41, 6824), (43, 6845), (45, 6851), (51, 6893), (88, 7064), (100, 7112), (144, 7331), (150, 7364), (175, 7469), (181, 7505), (185, 7517), (193, 7577), (196, 7595), (209, 7697),

Gene: Odin_9 Start: 4473, Stop: 5888, Start Num: 4

Candidate Starts for Odin_9:

(Start: 4 @4473 has 67 MA's), (32, 4764), (40, 4824), (41, 4830), (43, 4851), (45, 4857), (48, 4896), (76, 5079), (84, 5130), (154, 5559), (168, 5610), (169, 5613), (179, 5673), (180, 5676),

Gene: Onglai_10 Start: 4512, Stop: 6092, Start Num: 6

Candidate Starts for Onglai_10:

(Start: 6 @4512 has 46 MA's), (9, 4563), (18, 4653), (19, 4656), (21, 4671), (36, 4842), (37, 4854), (38, 4863), (67, 5124), (94, 5286), (98, 5337), (105, 5454), (139, 5679), (152, 5751), (167, 5811), (188, 5907), (193, 5952), (196, 5970),

Gene: Orange_10 Start: 6224, Stop: 7624, Start Num: 5

Candidate Starts for Orange_10:

(1, 6185), (Start: 5 @6224 has 26 MA's), (17, 6365), (18, 6371), (21, 6389), (31, 6509), (36, 6560), (38, 6581), (43, 6614), (73, 6761), (85, 6824), (86, 6830), (111, 6974), (122, 7055), (128, 7082), (160, 7286), (164, 7307), (171, 7331), (178, 7391), (188, 7424), (197, 7490), (210, 7586),

Gene: PR_36 Start: 36630, Stop: 38252, Start Num: 5

Candidate Starts for PR_36:

(Start: 5 @36630 has 26 MA's), (7, 36636), (10, 36699), (18, 36777), (21, 36795), (22, 36849), (28, 36897), (33, 36948), (36, 36984), (38, 37005), (47, 37059), (53, 37146), (55, 37185), (75, 37323), (78,

37344), (80, 37362), (87, 37404), (96, 37467), (101, 37551), (121, 37698), (122, 37704), (139, 37830), (141, 37842), (147, 37872), (156, 37911), (161, 37932), (170, 37965), (172, 37974), (174, 37989), (182, 38037), (192, 38088), (196, 38124), (200, 38139), (208, 38190), (213, 38247),

Gene: PackMan_11 Start: 6146, Stop: 7726, Start Num: 6

Candidate Starts for PackMan_11:

(Start: 6 @6146 has 46 MA's), (9, 6197), (18, 6287), (19, 6290), (36, 6476), (38, 6497), (67, 6758), (94, 6920), (98, 6971), (105, 7088), (139, 7313), (152, 7385), (167, 7445), (188, 7541), (193, 7586), (196, 7604),

Gene: Petersenfast_9 Start: 6227, Stop: 7627, Start Num: 5

Candidate Starts for Petersenfast_9:

(1, 6188), (Start: 5 @6227 has 26 MA's), (17, 6368), (18, 6374), (21, 6392), (31, 6512), (36, 6563), (38, 6584), (43, 6617), (73, 6764), (85, 6827), (86, 6833), (111, 6977), (122, 7058), (128, 7085), (160, 7289), (164, 7310), (171, 7334), (178, 7394), (188, 7427), (197, 7493), (210, 7589),

Gene: Ph8s_11 Start: 4474, Stop: 5847, Start Num: 4

Candidate Starts for Ph8s_11:

(Start: 4 @4474 has 67 MA's), (16, 4609), (20, 4630), (32, 4765), (35, 4798), (40, 4825), (41, 4831), (43, 4852), (45, 4858), (69, 5062), (84, 5131), (128, 5341), (138, 5404), (166, 5566), (168, 5569), (179, 5632), (180, 5635), (196, 5722),

Gene: Phaeder_11 Start: 6146, Stop: 7726, Start Num: 6

Candidate Starts for Phaeder_11:

(Start: 6 @6146 has 46 MA's), (9, 6197), (18, 6287), (19, 6290), (36, 6476), (38, 6497), (67, 6758), (94, 6920), (98, 6971), (105, 7088), (139, 7313), (152, 7385), (167, 7445), (188, 7541), (193, 7586), (196, 7604),

Gene: Phonnegut_11 Start: 6179, Stop: 7759, Start Num: 6

Candidate Starts for Phonnegut_11:

(Start: 6 @6179 has 46 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (36, 6509), (38, 6530), (67, 6791), (94, 6953), (98, 7004), (105, 7121), (139, 7346), (152, 7418), (167, 7478), (188, 7574), (193, 7619), (196, 7637),

Gene: Pioneer_11 Start: 6179, Stop: 7759, Start Num: 6

Candidate Starts for Pioneer_11:

(Start: 6 @6179 has 46 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (36, 6509), (38, 6530), (67, 6791), (94, 6953), (98, 7004), (105, 7121), (139, 7346), (152, 7418), (167, 7478), (188, 7574), (193, 7619), (196, 7637),

Gene: Piro94_10 Start: 5206, Stop: 6510, Start Num: 4

Candidate Starts for Piro94_10:

(Start: 4 @5206 has 67 MA's), (8, 5251), (15, 5338), (25, 5431), (32, 5497), (40, 5557), (41, 5563), (43, 5584), (51, 5644), (63, 5743), (64, 5746), (88, 5818), (144, 6085), (150, 6118), (163, 6172), (175, 6223), (184, 6268), (188, 6286),

Gene: Pomar16_12 Start: 4738, Stop: 6219, Start Num: 4

Candidate Starts for Pomar16_12:

(Start: 4 @4738 has 67 MA's), (8, 4783), (32, 5029), (40, 5089), (41, 5095), (43, 5116), (51, 5176), (76, 5344), (83, 5395), (103, 5545), (113, 5626), (143, 5815), (150, 5857), (165, 5920), (187, 6019), (208, 6148),

Gene: Power_9 Start: 4694, Stop: 5941, Start Num: 4

Candidate Starts for Power_9:

(Start: 4 @4694 has 67 MA's), (7, 4706), (8, 4739), (15, 4826), (20, 4850), (27, 4943), (32, 4985), (34, 5000), (40, 5045), (41, 5051), (43, 5072), (44, 5075), (64, 5222), (100, 5342), (144, 5561), (150, 5591), (157, 5615), (162, 5639), (187, 5738), (197, 5804), (199, 5810), (208, 5867),

Gene: Priya_11 Start: 6177, Stop: 7757, Start Num: 6

Candidate Starts for Priya_11:

(Start: 6 @6177 has 46 MA's), (9, 6228), (18, 6318), (19, 6321), (36, 6507), (38, 6528), (94, 6951), (98, 7002), (105, 7119), (118, 7203), (122, 7227), (128, 7254), (139, 7344), (152, 7416), (167, 7476), (188, 7572), (193, 7617), (196, 7635),

Gene: Prudy_11 Start: 6526, Stop: 7824, Start Num: 4

Candidate Starts for Prudy_11:

(Start: 4 @6526 has 67 MA's), (8, 6571), (29, 6790), (32, 6817), (40, 6877), (41, 6883), (43, 6904), (45, 6910), (51, 6958), (100, 7180), (144, 7399), (150, 7432), (175, 7537), (177, 7555), (181, 7573), (185, 7585), (196, 7663), (208, 7753), (209, 7765),

Gene: Qobbit_11 Start: 6176, Stop: 7756, Start Num: 6

Candidate Starts for Qobbit_11:

(Start: 6 @6176 has 46 MA's), (9, 6227), (18, 6317), (19, 6320), (21, 6335), (36, 6506), (38, 6527), (67, 6788), (94, 6950), (98, 7001), (105, 7118), (139, 7343), (152, 7415), (167, 7475), (188, 7571), (193, 7616), (196, 7634),

Gene: QueenB2_9 Start: 4800, Stop: 6035, Start Num: 4

Candidate Starts for QueenB2_9:

(Start: 4 @4800 has 67 MA's), (7, 4812), (8, 4845), (15, 4932), (20, 4956), (27, 5049), (32, 5091), (40, 5151), (41, 5157), (43, 5178), (45, 5184), (54, 5268), (64, 5328), (71, 5334), (88, 5400), (100, 5448), (144, 5667), (150, 5697), (157, 5721), (187, 5835), (197, 5901), (202, 5925),

Gene: QueenBeesly_9 Start: 4694, Stop: 5941, Start Num: 4

Candidate Starts for QueenBeesly_9:

(Start: 4 @4694 has 67 MA's), (7, 4706), (8, 4739), (14, 4823), (15, 4826), (20, 4850), (27, 4943), (32, 4985), (34, 5000), (40, 5045), (41, 5051), (43, 5072), (44, 5075), (64, 5222), (100, 5342), (144, 5561), (150, 5591), (157, 5615), (162, 5639), (187, 5738), (197, 5804), (199, 5810), (208, 5867),

Gene: Quokka_7 Start: 4332, Stop: 5210, Start Num: 4

Candidate Starts for Quokka_7:

(Start: 4 @4332 has 67 MA's), (8, 4377), (13, 4440), (15, 4464), (32, 4623), (40, 4683), (41, 4689), (43, 4710), (45, 4716), (74, 4869), (79, 4893), (109, 5010), (124, 5076), (125, 5079), (130, 5094), (132, 5100), (135, 5115), (142, 5172),

Gene: Rahalelujah_9 Start: 4273, Stop: 5823, Start Num: 6

Candidate Starts for Rahalelujah_9:

(Start: 6 @4273 has 46 MA's), (12, 4366), (18, 4414), (21, 4432), (26, 4495), (36, 4603), (38, 4624), (49, 4714), (62, 4855), (67, 4885), (85, 4975), (98, 5098), (113, 5236), (152, 5482), (159, 5512), (167, 5542), (188, 5638),

Gene: RedRock_12 Start: 6487, Stop: 7968, Start Num: 4

Candidate Starts for RedRock_12:

(Start: 4 @6487 has 67 MA's), (8, 6532), (15, 6619), (27, 6736), (32, 6778), (40, 6838), (41, 6844), (43, 6865), (44, 6868), (59, 7009), (66, 7057), (83, 7144), (102, 7291), (103, 7294), (113, 7375), (143, 7564), (150, 7606), (153, 7624), (157, 7630), (162, 7654), (187, 7768), (189, 7777), (208, 7897),

Gene: Retro23_9 Start: 4797, Stop: 6089, Start Num: 4

Candidate Starts for Retro23_9:

(Start: 4 @4797 has 67 MA's), (7, 4809), (8, 4842), (15, 4929), (20, 4953), (27, 5046), (32, 5088), (34, 5103), (40, 5148), (41, 5154), (43, 5175), (54, 5265), (64, 5325), (71, 5331), (100, 5445), (144, 5664), (150, 5697), (162, 5742), (175, 5802), (184, 5847), (196, 5928), (209, 6030),

Gene: RyeScarlet_12 Start: 6182, Stop: 7762, Start Num: 6

Candidate Starts for RyeScarlet_12:

(Start: 6 @6182 has 46 MA's), (9, 6233), (18, 6323), (19, 6326), (21, 6341), (36, 6512), (37, 6524), (38, 6533), (67, 6794), (94, 6956), (98, 7007), (105, 7124), (139, 7349), (152, 7421), (167, 7481), (188, 7577), (193, 7622), (196, 7640),

Gene: Sachima_9 Start: 6146, Stop: 7726, Start Num: 6

Candidate Starts for Sachima_9:

(Start: 6 @6146 has 46 MA's), (9, 6197), (18, 6287), (19, 6290), (21, 6305), (36, 6476), (37, 6488), (38, 6497), (67, 6758), (94, 6920), (98, 6971), (105, 7088), (139, 7313), (152, 7385), (167, 7445), (188, 7541), (193, 7586), (196, 7604),

Gene: Salz_10 Start: 6224, Stop: 7624, Start Num: 5

Candidate Starts for Salz_10:

(1, 6185), (Start: 5 @6224 has 26 MA's), (17, 6365), (18, 6371), (21, 6389), (31, 6509), (36, 6560), (38, 6581), (43, 6614), (73, 6761), (85, 6824), (86, 6830), (111, 6974), (122, 7055), (128, 7082), (160, 7286), (164, 7307), (171, 7331), (178, 7391), (188, 7424), (197, 7490), (210, 7586),

Gene: Saskia_9 Start: 6227, Stop: 7627, Start Num: 5

Candidate Starts for Saskia_9:

(1, 6188), (Start: 5 @6227 has 26 MA's), (10, 6296), (18, 6374), (21, 6392), (31, 6512), (36, 6563), (38, 6584), (43, 6617), (73, 6764), (85, 6827), (111, 6977), (122, 7058), (128, 7085), (160, 7289), (164, 7310), (171, 7334), (178, 7394), (188, 7427), (197, 7493), (210, 7589),

Gene: Scherzo_11 Start: 6179, Stop: 7759, Start Num: 6

Candidate Starts for Scherzo_11:

(Start: 6 @6179 has 46 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (36, 6509), (37, 6521), (38, 6530), (67, 6791), (94, 6953), (98, 7004), (105, 7121), (139, 7346), (152, 7418), (167, 7478), (188, 7574), (193, 7619), (196, 7637),

Gene: SemperFi_11 Start: 5122, Stop: 6369, Start Num: 4

Candidate Starts for SemperFi_11:

(Start: 4 @5122 has 67 MA's), (7, 5134), (8, 5167), (15, 5254), (20, 5278), (27, 5371), (32, 5413), (34, 5428), (40, 5473), (41, 5479), (43, 5500), (44, 5503), (64, 5650), (100, 5770), (144, 5989), (150, 6019), (157, 6043), (162, 6067), (187, 6166), (197, 6232), (199, 6238), (208, 6295),

Gene: Serenity_8 Start: 4332, Stop: 5210, Start Num: 4

Candidate Starts for Serenity_8:

(Start: 4 @4332 has 67 MA's), (8, 4377), (13, 4440), (15, 4464), (32, 4623), (40, 4683), (41, 4689), (43, 4710), (45, 4716), (74, 4869), (79, 4893), (109, 5010), (124, 5076), (125, 5079), (130, 5094), (132, 5100), (135, 5115), (142, 5172),

Gene: Sham4_10 Start: 6227, Stop: 7627, Start Num: 5

Candidate Starts for Sham4_10:

(1, 6188), (Start: 5 @6227 has 26 MA's), (17, 6368), (18, 6374), (21, 6392), (31, 6512), (36, 6563), (38, 6584), (43, 6617), (73, 6764), (85, 6827), (86, 6833), (111, 6977), (122, 7058), (128, 7085), (160, 7289), (164, 7310), (171, 7334), (178, 7394), (188, 7427), (197, 7493), (210, 7589),

Gene: SheaKeira_10 Start: 4377, Stop: 5927, Start Num: 6

Candidate Starts for SheaKeira_10:

(Start: 6 @4377 has 46 MA's), (18, 4518), (36, 4707), (38, 4728), (65, 4980), (98, 5202), (106, 5298), (113, 5340), (131, 5439), (152, 5586), (167, 5646), (188, 5742), (195, 5802),

Gene: Sheen_10 Start: 5731, Stop: 7155, Start Num: 4

Candidate Starts for Sheen_10:

(Start: 4 @5731 has 67 MA's), (8, 5776), (15, 5863), (27, 5980), (31, 6019), (32, 6022), (40, 6082), (41, 6088), (43, 6109), (45, 6115), (51, 6163), (60, 6256), (76, 6328), (78, 6346), (83, 6379), (112, 6550), (116, 6589), (145, 6790), (149, 6817), (155, 6838), (162, 6862), (178, 6922), (179, 6925), (187, 6955), (191, 6979), (197, 7021), (198, 7024), (205, 7060), (207, 7066), (212, 7138),

Gene: Sknot_9 Start: 4749, Stop: 6053, Start Num: 4

Candidate Starts for Sknot_9:

(Start: 4 @4749 has 67 MA's), (7, 4761), (8, 4794), (15, 4881), (29, 5013), (32, 5040), (40, 5100), (41, 5106), (43, 5127), (51, 5187), (63, 5286), (64, 5289), (88, 5361), (100, 5409), (144, 5628), (150, 5661), (163, 5715), (175, 5766), (184, 5811), (188, 5829),

Gene: SnapTap_9 Start: 4694, Stop: 5941, Start Num: 4

Candidate Starts for SnapTap_9:

(Start: 4 @4694 has 67 MA's), (7, 4706), (8, 4739), (15, 4826), (20, 4850), (27, 4943), (32, 4985), (34, 5000), (40, 5045), (41, 5051), (43, 5072), (44, 5075), (64, 5222), (100, 5342), (144, 5561), (150, 5591), (157, 5615), (162, 5639), (187, 5738), (197, 5804), (199, 5810), (208, 5867),

Gene: Snape_10 Start: 6230, Stop: 7630, Start Num: 5

Candidate Starts for Snape_10:

(1, 6191), (Start: 5 @6230 has 26 MA's), (17, 6371), (18, 6377), (21, 6395), (31, 6515), (36, 6566), (38, 6587), (43, 6620), (73, 6767), (85, 6830), (86, 6836), (111, 6980), (122, 7061), (128, 7088), (160, 7292), (164, 7313), (171, 7337), (178, 7397), (188, 7430), (197, 7496), (210, 7592),

Gene: SororFago_9 Start: 4555, Stop: 6138, Start Num: 6

Candidate Starts for SororFago_9:

(Start: 6 @4555 has 46 MA's), (18, 4696), (19, 4699), (24, 4768), (36, 4885), (38, 4906), (46, 4957), (78, 5218), (85, 5257), (93, 5317), (94, 5329), (98, 5380), (105, 5497), (126, 5623), (139, 5722), (152, 5794), (158, 5815), (167, 5860), (188, 5956), (193, 6001),

Gene: Spouty_11 Start: 6176, Stop: 7756, Start Num: 6

Candidate Starts for Spouty_11:

(Start: 6 @6176 has 46 MA's), (9, 6227), (18, 6317), (19, 6320), (36, 6506), (38, 6527), (94, 6950), (98, 7001), (105, 7118), (118, 7202), (122, 7226), (128, 7253), (139, 7343), (152, 7415), (167, 7475), (188, 7571), (193, 7616), (196, 7634),

Gene: StarStuff_12 Start: 4697, Stop: 6178, Start Num: 4

Candidate Starts for StarStuff_12:

(Start: 4 @4697 has 67 MA's), (8, 4742), (32, 4988), (40, 5048), (41, 5054), (43, 5075), (50, 5129), (51, 5135), (76, 5303), (83, 5354), (103, 5504), (113, 5585), (143, 5774), (150, 5816), (165, 5879), (187, 5978), (208, 6107),

Gene: Stellammi_35 Start: 25910, Stop: 27592, Start Num: 5

Candidate Starts for Stellammi_35:

(Start: 5 @25910 has 26 MA's), (11, 25994), (18, 26057), (21, 26075), (36, 26246), (38, 26267), (52, 26396), (55, 26444), (57, 26459), (62, 26528), (66, 26555), (68, 26561), (72, 26570), (82, 26633), (87,

26663), (90, 26690), (95, 26738), (98, 26777), (99, 26792), (114, 26954), (117, 26975), (119, 26984), (126, 27023), (137, 27083), (146, 27179), (160, 27260), (164, 27281), (188, 27398), (194, 27452), (196, 27461), (201, 27482), (206, 27509),

Gene: Sunhee_8 Start: 4574, Stop: 6157, Start Num: 6

Candidate Starts for Sunhee_8:

(Start: 6 @4574 has 46 MA's), (18, 4715), (19, 4718), (24, 4787), (36, 4904), (38, 4925), (43, 4958), (46, 4976), (85, 5276), (94, 5348), (98, 5399), (126, 5642), (128, 5651), (152, 5813), (158, 5834), (167, 5876), (188, 5972), (190, 5993), (193, 6017), (206, 6086),

Gene: Superchunk_9 Start: 4337, Stop: 5746, Start Num: 3

Candidate Starts for Superchunk_9:

(2, 4331), (Start: 3 @4337 has 1 MA's), (32, 4628), (40, 4688), (41, 4694), (43, 4715), (45, 4721), (51, 4769), (76, 4937), (84, 4988), (154, 5417), (168, 5468), (169, 5471), (179, 5531), (180, 5534), (210, 5717),

Gene: SweetiePie_9 Start: 4694, Stop: 5941, Start Num: 4

Candidate Starts for SweetiePie_9:

(Start: 4 @4694 has 67 MA's), (7, 4706), (8, 4739), (15, 4826), (20, 4850), (27, 4943), (32, 4985), (34, 5000), (40, 5045), (41, 5051), (43, 5072), (44, 5075), (64, 5222), (100, 5342), (144, 5561), (150, 5591), (157, 5615), (162, 5639), (187, 5738), (197, 5804), (199, 5810), (208, 5867),

Gene: SwirlSquare_12 Start: 4508, Stop: 5878, Start Num: 4

Candidate Starts for SwirlSquare_12:

(Start: 4 @4508 has 67 MA's), (20, 4664), (32, 4799), (40, 4859), (41, 4865), (43, 4886), (45, 4892), (51, 4940), (77, 5120), (84, 5159), (115, 5321), (136, 5408), (158, 5555), (168, 5600), (169, 5603), (179, 5663), (180, 5666), (210, 5849),

Gene: Taptic_36 Start: 36026, Stop: 37648, Start Num: 5

Candidate Starts for Taptic_36:

(Start: 5 @36026 has 26 MA's), (7, 36032), (10, 36095), (18, 36173), (21, 36191), (22, 36245), (28, 36293), (33, 36344), (36, 36380), (38, 36401), (47, 36455), (53, 36542), (55, 36581), (75, 36719), (80, 36758), (87, 36800), (96, 36863), (101, 36947), (121, 37094), (122, 37100), (139, 37226), (141, 37238), (147, 37268), (156, 37307), (161, 37328), (170, 37361), (172, 37370), (174, 37385), (182, 37433), (192, 37484), (196, 37520), (200, 37535), (208, 37586), (213, 37643),

Gene: Terrific_13 Start: 5203, Stop: 6507, Start Num: 4

Candidate Starts for Terrific_13:

(Start: 4 @5203 has 67 MA's), (8, 5248), (15, 5335), (32, 5494), (40, 5554), (41, 5560), (43, 5581), (51, 5641), (63, 5740), (64, 5743), (88, 5815), (144, 6082), (150, 6115), (163, 6169), (175, 6220), (184, 6265), (188, 6283),

Gene: Timothy_10 Start: 6224, Stop: 7624, Start Num: 5

Candidate Starts for Timothy_10:

(1, 6185), (Start: 5 @6224 has 26 MA's), (18, 6371), (21, 6389), (31, 6509), (36, 6560), (38, 6581), (43, 6614), (73, 6761), (85, 6824), (86, 6830), (111, 6974), (122, 7055), (128, 7082), (160, 7286), (164, 7307), (171, 7331), (178, 7391), (188, 7424), (197, 7490), (210, 7586),

Gene: TinyTimmy_10 Start: 6279, Stop: 7676, Start Num: 6

Candidate Starts for TinyTimmy_10:

(Start: 6 @6279 has 46 MA's), (17, 6417), (18, 6423), (21, 6441), (31, 6561), (36, 6612), (38, 6633), (43, 6666), (73, 6813), (85, 6876), (86, 6882), (111, 7026), (122, 7107), (128, 7134), (160, 7338), (164, 7359), (171, 7383), (178, 7443), (188, 7476), (197, 7542), (210, 7638),

Gene: TipsytheTRex_8 Start: 4285, Stop: 5163, Start Num: 4

Candidate Starts for TipsytheTRex_8:

(Start: 4 @4285 has 67 MA's), (8, 4330), (13, 4393), (15, 4417), (16, 4420), (27, 4534), (32, 4576), (40, 4636), (41, 4642), (45, 4669), (74, 4822), (79, 4846), (109, 4963), (124, 5029), (130, 5047), (132, 5053), (135, 5068), (142, 5125),

Gene: Toaka_9 Start: 4553, Stop: 6103, Start Num: 6

Candidate Starts for Toaka_9:

(Start: 6 @4553 has 46 MA's), (12, 4646), (18, 4694), (36, 4883), (38, 4904), (49, 4994), (63, 5138), (67, 5165), (85, 5255), (97, 5363), (98, 5378), (106, 5474), (131, 5615), (139, 5690), (152, 5762), (159, 5792), (167, 5822), (188, 5918), (196, 5981),

Gene: Tomathan_12 Start: 4697, Stop: 6178, Start Num: 4

Candidate Starts for Tomathan_12:

(Start: 4 @4697 has 67 MA's), (8, 4742), (32, 4988), (40, 5048), (41, 5054), (43, 5075), (50, 5129), (51, 5135), (76, 5303), (83, 5354), (103, 5504), (113, 5585), (143, 5774), (150, 5816), (165, 5879), (187, 5978), (208, 6107),

Gene: Toro_11 Start: 5649, Stop: 7097, Start Num: 4

Candidate Starts for Toro_11:

(Start: 4 @5649 has 67 MA's), (8, 5694), (15, 5781), (27, 5898), (31, 5937), (32, 5940), (40, 6000), (41, 6006), (43, 6027), (45, 6033), (51, 6081), (60, 6174), (76, 6246), (83, 6297), (103, 6447), (112, 6507), (113, 6528), (129, 6618), (133, 6645), (145, 6732), (149, 6759), (155, 6780), (162, 6804), (178, 6864), (179, 6867), (187, 6897), (191, 6921), (197, 6963), (198, 6966), (205, 7002), (207, 7008), (212, 7080),

Gene: Travvers_12 Start: 4697, Stop: 6178, Start Num: 4

Candidate Starts for Travvers_12:

(Start: 4 @4697 has 67 MA's), (8, 4742), (32, 4988), (40, 5048), (41, 5054), (43, 5075), (50, 5129), (51, 5135), (76, 5303), (83, 5354), (103, 5504), (113, 5585), (143, 5774), (150, 5816), (165, 5879), (187, 5978), (208, 6107),

Gene: Trixie_12 Start: 6376, Stop: 7671, Start Num: 4

Candidate Starts for Trixie_12:

(Start: 4 @6376 has 67 MA's), (7, 6388), (8, 6421), (15, 6508), (20, 6532), (27, 6625), (32, 6667), (34, 6682), (40, 6727), (41, 6733), (43, 6754), (45, 6760), (100, 7033), (144, 7252), (150, 7279), (162, 7324), (175, 7384), (196, 7510), (208, 7600), (209, 7612),

Gene: Tubs_11 Start: 6146, Stop: 7726, Start Num: 6

Candidate Starts for Tubs_11:

(Start: 6 @6146 has 46 MA's), (9, 6197), (18, 6287), (19, 6290), (36, 6476), (38, 6497), (67, 6758), (94, 6920), (98, 6971), (105, 7088), (139, 7313), (152, 7385), (167, 7445), (188, 7541), (193, 7586), (196, 7604),

Gene: Ugenie5_8 Start: 6179, Stop: 7759, Start Num: 6

Candidate Starts for Ugenie5_8:

(Start: 6 @6179 has 46 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (36, 6509), (37, 6521), (38, 6530), (67, 6791), (94, 6953), (98, 7004), (105, 7121), (139, 7346), (152, 7418), (167, 7478), (188, 7574), (193, 7619), (196, 7637),

Gene: Updawg_11 Start: 5191, Stop: 6495, Start Num: 4

Candidate Starts for Updawg_11:

(Start: 4 @5191 has 67 MA's), (8, 5236), (15, 5323), (32, 5482), (40, 5542), (41, 5548), (43, 5569), (44, 5572), (51, 5629), (63, 5728), (64, 5731), (88, 5803), (100, 5851), (144, 6070), (150, 6103), (163, 6157), (175, 6208), (184, 6253), (188, 6271), (203, 6388),

Gene: VA6_9 Start: 4672, Stop: 5973, Start Num: 4

Candidate Starts for VA6_9:

(Start: 4 @4672 has 67 MA's), (8, 4717), (15, 4804), (20, 4828), (27, 4921), (32, 4963), (34, 4978), (40, 5023), (41, 5029), (43, 5050), (45, 5056), (64, 5212), (88, 5284), (100, 5332), (127, 5455), (144, 5551), (150, 5584), (175, 5689), (181, 5725), (196, 5815), (209, 5917),

Gene: VC3_12 Start: 4696, Stop: 6177, Start Num: 4

Candidate Starts for VC3_12:

(Start: 4 @4696 has 67 MA's), (8, 4741), (14, 4825), (32, 4987), (40, 5047), (41, 5053), (43, 5074), (50, 5128), (51, 5134), (76, 5302), (83, 5353), (103, 5503), (113, 5584), (150, 5815), (165, 5878), (187, 5977), (208, 6106),

Gene: Vanisoa_9 Start: 4264, Stop: 5814, Start Num: 6

Candidate Starts for Vanisoa_9:

(Start: 6 @4264 has 46 MA's), (18, 4405), (19, 4408), (21, 4423), (36, 4594), (38, 4615), (42, 4645), (62, 4846), (67, 4876), (85, 4966), (97, 5074), (98, 5089), (106, 5185), (113, 5227), (131, 5326), (152, 5473), (159, 5503), (167, 5533), (188, 5629), (195, 5689),

Gene: WeiHuaDA_15 Start: 6986, Stop: 8281, Start Num: 4

Candidate Starts for WeiHuaDA_15:

(Start: 4 @6986 has 67 MA's), (7, 6998), (8, 7031), (15, 7118), (20, 7142), (27, 7235), (32, 7277), (40, 7337), (41, 7343), (43, 7364), (45, 7370), (54, 7454), (61, 7511), (100, 7643), (144, 7862), (150, 7889), (162, 7934), (173, 7976), (175, 7994), (184, 8039), (196, 8120), (206, 8192), (209, 8222),

Gene: WideWale_11 Start: 5191, Stop: 6495, Start Num: 4

Candidate Starts for WideWale_11:

(Start: 4 @5191 has 67 MA's), (8, 5236), (15, 5323), (32, 5482), (40, 5542), (41, 5548), (43, 5569), (44, 5572), (51, 5629), (63, 5728), (64, 5731), (88, 5803), (100, 5851), (144, 6070), (150, 6103), (163, 6157), (175, 6208), (184, 6253), (188, 6271), (203, 6388),

Gene: Wolpertinger_9 Start: 6227, Stop: 7627, Start Num: 5

Candidate Starts for Wolpertinger_9:

(1, 6188), (Start: 5 @6227 has 26 MA's), (17, 6368), (18, 6374), (21, 6392), (31, 6512), (36, 6563), (38, 6584), (43, 6617), (73, 6764), (85, 6827), (86, 6833), (111, 6977), (122, 7058), (128, 7085), (160, 7289), (164, 7310), (171, 7334), (178, 7394), (188, 7427), (197, 7493), (210, 7589),

Gene: WorldCup_8 Start: 4273, Stop: 5823, Start Num: 6

Candidate Starts for WorldCup_8:

(Start: 6 @4273 has 46 MA's), (12, 4366), (18, 4414), (21, 4432), (26, 4495), (36, 4603), (38, 4624), (49, 4714), (62, 4855), (67, 4885), (85, 4975), (98, 5098), (113, 5236), (131, 5335), (152, 5482), (159, 5512), (167, 5542), (188, 5638),

Gene: Yecey3_10 Start: 4341, Stop: 5915, Start Num: 6

Candidate Starts for Yecey3_10:

(Start: 6 @4341 has 46 MA's), (12, 4434), (18, 4482), (19, 4485), (22, 4554), (36, 4689), (38, 4710), (46, 4761), (67, 4971), (91, 5103), (94, 5133), (98, 5184), (113, 5322), (128, 5406), (131, 5421), (152, 5568), (167, 5634), (188, 5730), (190, 5751), (204, 5838),