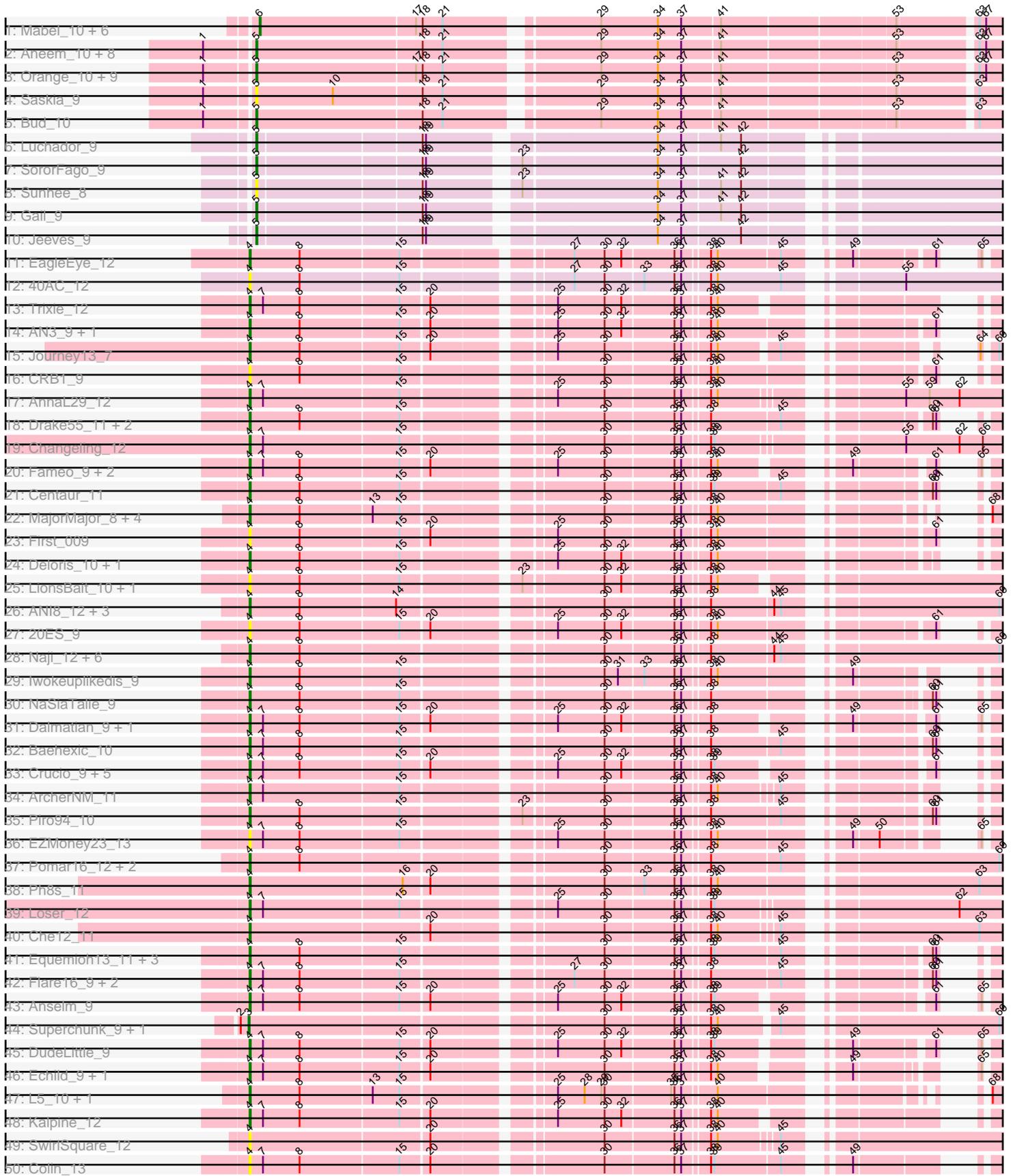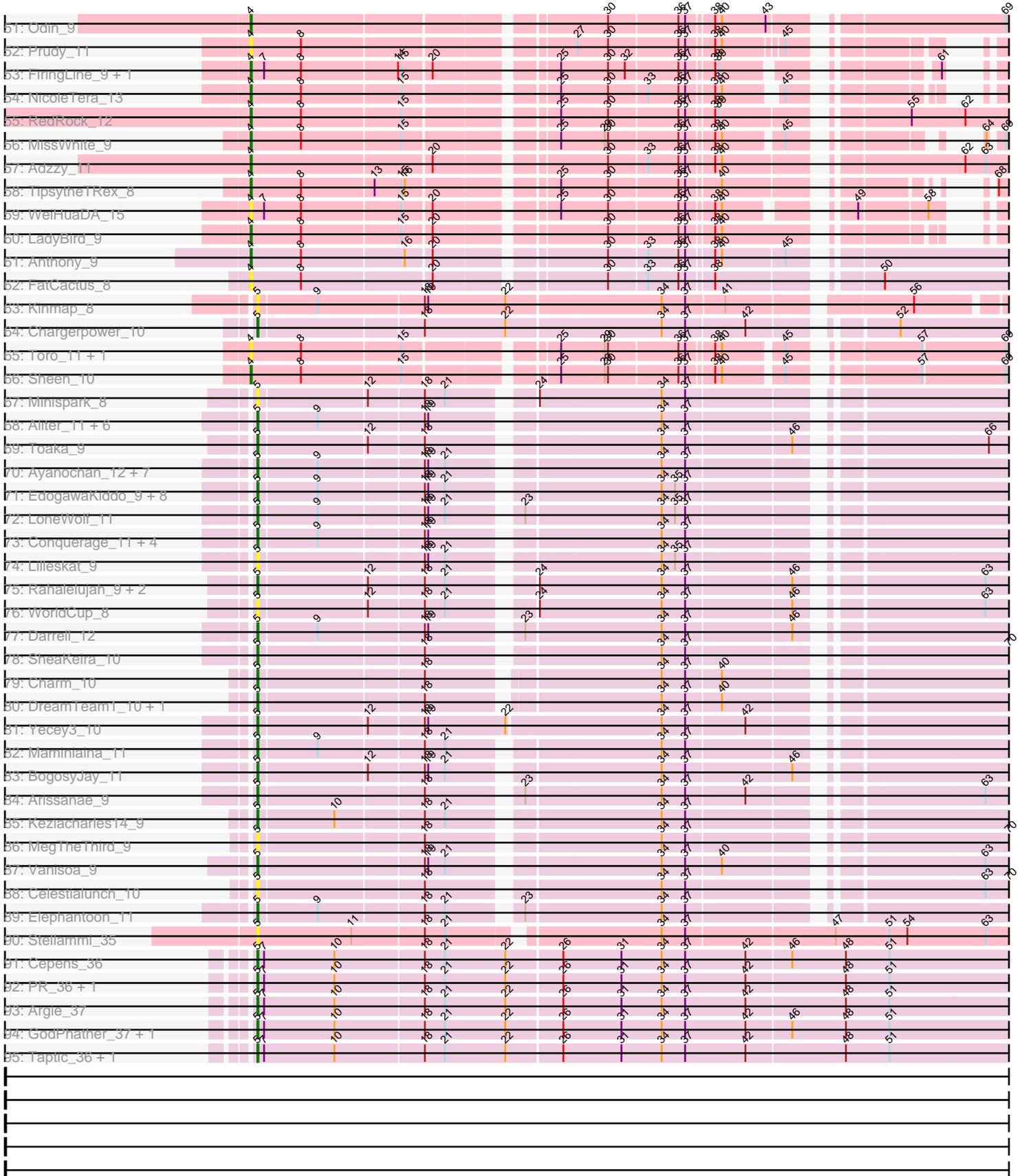# Zoomed Pham 283514

Zoomed Pham 283514

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 283514 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283514 has 187 members, 45 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 : Echild_9, Benvolio_9
- Track 47 : L5_10, Koduck_9
- Track 48 : Kalpine_12
- Track 49 : SwirlSquare_12
- Track 50 : Colin_13
- Track 51 : Odin_9
- Track 52 : Prudy_11
- Track 53 : FiringLine_9, QueenBeesly_9
- Track 54 : NicoleTera_13
- Track 55 : RedRock_12
- Track 56 : MissWhite_9
- Track 57 : Adzzy_11
- Track 58 : TipsytheTRex_8
- Track 59 : WeiHuaDA_15
- Track 60 : LadyBird_9
- Track 61 : Anthony_9
- Track 62 : FatCactus_8
- Track 63 : Kinmap_8
- Track 64 : Chargerpower_10
- Track 65 : Toro_11, FlyCatcher_12
- Track 66 : Sheen_10
- Track 67 : Minispark_8
- Track 68 : Aliter_11, HortumSL17_11, Catalina_11, Phaeder_11, Tubs_11, Myxus_11, PackMan_11
- Track 69 : Toaka_9
- Track 70 : Ayanochan_12, Qobbit_11, Fayely_11, Phonnegut_11, EmyBug_11, Pioneer_11, Beemo_11, ExplosioNervosa_11
- Track 71 : EdogawaKiddo_9, Scherzo_11, Hanray_10, Holex_10, Onglai_10, RyeScarlet_12, Jiawan_10, Ugenie5_8, Sachima_9
- Track 72 : LoneWolf_11
- Track 73 : Conquerage_11, Alma_11, Spouty_11, Priya_11, Eidsmoe_11
- Track 74 : Lilleskat_9
- Track 75 : Rahalelujah_9, Bellris_8, CogOmlette_8
- Track 76 : WorldCup_8
- Track 77 : Darrell_12
- Track 78 : SheaKeira_10
- Track 79 : Charm_10
- Track 80 : DreamTeam1_10, Klodlith_10
- Track 81 : Yecey3_10

- Track 82 : Maminiaina_11
- Track 83 : BogosyJay_11
- Track 84 : Arissanae_9
- Track 85 : Keziacharles14_9
- Track 86 : MegTheThird_9
- Track 87 : Vanisoa_9
- Track 88 : Celestialunch_10
- Track 89 : Elephantoon_11
- Track 90 : Stellammi_35
- Track 91 : Cepens_36
- Track 92 : PR_36, D12_35
- Track 93 : Argie_37
- Track 94 : GodPhather_37, Jeon_36
- Track 95 : 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 69 of the 142 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, Benvolio_9, 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, Echild_9, 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, Celestialunch_10, 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, Holex_10, HortumSL17_11, Hutc2_10, Insomnia_10, Jabith_10, Jeeves_9, Jeon_36, Jiawan_10, Joselito_10, Keziacharles14_9, Kimba_10, Kinmap_8, Klodlith_10, Lilleskat_9, LoneWolf_11, Luchador_9,

Lucivia_10, MaCh_10, Mabel_10, Maminiaina_11, MegTheThird_9, 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 187 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 142
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Caraxes_9 (A2), Superchunk_9 (A2),

Start 4:
• Found in 90 of 187 (48.1%) of genes in pham
• Manual Annotations of this start: 69 of 142
• 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), Benvolio_9 (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), Echild_9 (A2), 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), TipsytheTRex_8 (A2), Tomathan_12 (A2), Toro_11 (A7), Travvers_12 (A2), Trixie_12 (A2), Updawg_11 (A2), VA6_9 (A2), VC3_12 (A2), WeiHuaDA_15 (A2), WideWale_11 (A2),

Start 5:
• Found in 88 of 187 (47.1%) of genes in pham
• Manual Annotations of this start: 66 of 142
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aliter_11 (A9), Alma_11 (A9), Aneem_10 (A11), Argie_37 (W), Arissanae_9 (A9), Ayanochan_12 (A9), Bachome_10 (A11), Beemo_11 (A9), Bellris_8 (A9), BogosyJay_11 (A9), Bowtie_10 (A11), Bud_10 (A11), Catalina_11 (A9), Celestialunch_10 (A9), Cepens_36 (W), Chargerpower_10 (A22), Charm_10 (A9), CogOmlette_8 (A9), Conquerage_11 (A9), D12_35 (W), Darrell_12 (A9), DreamTeam1_10 (A9), EdogawaKiddo_9 (A9), Eidsmoe_11 (A9),

Elephantoon_11 (A9), EmyBug_11 (A9), Et2Brutus_9 (A11), ExplosioNervosa_11 (A9), Fayely_11 (A9), Fibonacci_10 (A11), Flaverint_10 (A11), Gail_9 (A14), Gilberta_10 (A11), GodPhather_37 (W), Hanray_10 (A9), Holex_10 (A9), HortumSL17_11 (A9), Hutc2_10 (A11), Jeeves_9 (A14), Jeon_36 (W), Jiawan_10 (A9), Joselito_10 (A11), Keziacharles14_9 (A9), Kinmap_8 (A21), Klodlith_10 (A9), Lilleskat_9 (A9), LoneWolf_11 (A9), Luchador_9 (A14), MaCh_10 (A11), Maminiaina_11 (A9), MegTheThird_9 (A9), Megabear_36 (W), Minispark_8 (A9), Mulciber_10 (A11), Munch_10 (A11), Myxus_11 (A9), Onglai_10 (A9), Orange_10 (A11), PR_36 (W), PackMan_11 (A9), Petersenfast_9 (A11), Phaeder_11 (A9), Phonnegut_11 (A9), Pioneer_11 (A9), Priya_11 (A9), Qobbit_11 (A9), Rahalelujah_9 (A9), RyeScarlet_12 (A9), Sachima_9 (A9), Salz_10 (A11), Saskia_9 (A11), Scherzo_11 (A9), Sham4_10 (A11), SheaKeira_10 (A9), Snape_10 (A11), SororFago_9 (A14), Spouty_11 (A9), Stellammi_35 (UNK), Sunhee_8 (A14), Taptic_36 (W), Timothy_10 (A11), Toaka_9 (A9), Tubs_11 (A9), Ugenie5_8 (A9), Vanisoa_9 (A9), Wolpertinger_9 (A11), WorldCup_8 (A9), Yecey3_10 (A9),

Start 6:
• Found in 7 of 187 (3.7%) of genes in pham
• Manual Annotations of this start: 6 of 142
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ebony_10 (A11), Insomnia_10 (A11), Jabith_10 (A11), Kimba_10 (A11), Lucivia_10 (A11), Mabel_10 (A11), TinyTimmy_10 (A11),

Summary by clusters:

There are 12 clusters represented in this pham: A20, A14, A17, A16, A11, A7, A21, 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 5 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 66 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 5 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 5 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 69 MA's), (8, 4735), (15, 4822), (20, 4846), (25, 4939), (30, 4981), (32, 4996), (36, 5041), (37, 5047), (38, 5068), (40, 5074), (61, 5230), (82, 5302), (91, 5350), (144, 5569), (153, 5602), (168, 5707),

Gene: 40AC_12 Start: 6575, Stop: 8080, Start Num: 4
Candidate Starts for 40AC_12:
(Start: 4 @6575 has 69 MA's), (8, 6620), (15, 6707), (27, 6839), (30, 6866), (33, 6899), (36, 6926), (37, 6932), (38, 6953), (40, 6959), (45, 7016), (55, 7100), (102, 7397), (108, 7421), (118, 7496), (140, 7637), (153, 7688), (161, 7733), (168, 7793), (175, 7829), (179, 7841), (190, 7901), (192, 7919), (209, 8009), (210, 8021),

Gene: AN3_9 Start: 4672, Stop: 5973, Start Num: 4
Candidate Starts for AN3_9:
(Start: 4 @4672 has 69 MA's), (8, 4717), (15, 4804), (20, 4828), (25, 4921), (30, 4963), (32, 4978), (36, 5023), (37, 5029), (38, 5050), (40, 5056), (61, 5212), (82, 5284), (91, 5332), (123, 5455), (144, 5551), (153, 5584), (168, 5689), (175, 5725), (192, 5815), (210, 5917),

Gene: AN9_12 Start: 4696, Stop: 6177, Start Num: 4
Candidate Starts for AN9_12:
(Start: 4 @4696 has 69 MA's), (8, 4741), (14, 4825), (30, 4987), (36, 5047), (37, 5053), (38, 5074), (44, 5128), (45, 5134), (69, 5302), (80, 5353), (98, 5503), (113, 5584), (153, 5815), (163, 5878), (180, 5977), (209, 6106),

Gene: ANI8_12 Start: 4696, Stop: 6177, Start Num: 4
Candidate Starts for ANI8_12:
(Start: 4 @4696 has 69 MA's), (8, 4741), (14, 4825), (30, 4987), (36, 5047), (37, 5053), (38, 5074), (44, 5128), (45, 5134), (69, 5302), (80, 5353), (98, 5503), (113, 5584), (153, 5815), (163, 5878), (180, 5977), (209, 6106),

Gene: Adzzy_11 Start: 4473, Stop: 5846, Start Num: 4
Candidate Starts for Adzzy_11:
(Start: 4 @4473 has 69 MA's), (20, 4629), (30, 4764), (33, 4797), (36, 4824), (37, 4830), (38, 4851), (40, 4857), (62, 5043), (63, 5061), (80, 5130), (111, 5292), (116, 5340), (125, 5403), (156, 5565), (157, 5568), (175, 5631), (176, 5634), (192, 5721),

Gene: Aliter_11 Start: 6074, Stop: 7654, Start Num: 5
Candidate Starts for Aliter_11:
(Start: 5 @6074 has 66 MA's), (9, 6125), (18, 6215), (19, 6218), (34, 6404), (37, 6425), (72, 6686), (96, 6848), (104, 6899), (121, 7016), (160, 7241), (173, 7313), (188, 7373), (206, 7469), (212, 7514), (217,

7532),

Gene: Alma_11 Start: 6153, Stop: 7733, Start Num: 5
Candidate Starts for Alma_11:
(Start: 5 @6153 has 66 MA's), (9, 6204), (18, 6294), (19, 6297), (34, 6483), (37, 6504), (96, 6927), (104, 6978), (121, 7095), (135, 7179), (138, 7203), (145, 7230), (160, 7320), (173, 7392), (188, 7452), (206, 7548), (212, 7593), (217, 7611),

Gene: Aneem_10 Start: 6224, Stop: 7624, Start Num: 5
Candidate Starts for Aneem_10:
(1, 6185), (Start: 5 @6224 has 66 MA's), (18, 6371), (21, 6389), (29, 6509), (34, 6560), (37, 6581), (41, 6614), (53, 6761), (63, 6824), (67, 6830), (92, 6974), (103, 7055), (112, 7082), (139, 7286), (146, 7307), (151, 7331), (159, 7391), (164, 7424), (172, 7490), (191, 7586),

Gene: AnnaL29_12 Start: 6416, Stop: 7891, Start Num: 4
Candidate Starts for AnnaL29_12:
(Start: 4 @6416 has 69 MA's), (7, 6428), (15, 6548), (25, 6665), (30, 6707), (36, 6767), (37, 6773), (38, 6794), (40, 6800), (55, 6932), (59, 6953), (62, 6980), (80, 7067), (97, 7214), (98, 7217), (113, 7298), (143, 7487), (153, 7529), (155, 7547), (156, 7553), (161, 7577), (180, 7691), (183, 7700), (209, 7820), (213, 7853),

Gene: Anselm_9 Start: 4805, Stop: 6097, Start Num: 4
Candidate Starts for Anselm_9:
(Start: 4 @4805 has 69 MA's), (7, 4817), (8, 4850), (15, 4937), (20, 4961), (25, 5054), (30, 5096), (32, 5111), (36, 5156), (37, 5162), (38, 5183), (39, 5186), (61, 5333), (65, 5339), (91, 5453), (144, 5672), (153, 5705), (161, 5750), (168, 5810), (192, 5936), (210, 6038),

Gene: Anthony_9 Start: 3885, Stop: 5264, Start Num: 4
Candidate Starts for Anthony_9:
(Start: 4 @3885 has 69 MA's), (8, 3930), (16, 4020), (20, 4041), (30, 4176), (33, 4209), (36, 4236), (37, 4242), (38, 4263), (40, 4269), (45, 4323), (80, 4542), (83, 4572), (111, 4704), (116, 4752), (157, 4983), (158, 4986), (175, 5046), (176, 5049),

Gene: ArcherNM_11 Start: 6513, Stop: 7808, Start Num: 4
Candidate Starts for ArcherNM_11:
(Start: 4 @6513 has 69 MA's), (7, 6525), (15, 6645), (30, 6804), (36, 6864), (37, 6870), (38, 6891), (40, 6897), (45, 6945), (91, 7167), (144, 7386), (153, 7419), (168, 7524), (178, 7569), (192, 7650), (209, 7740), (210, 7752),

Gene: Argie_37 Start: 36368, Stop: 37990, Start Num: 5
Candidate Starts for Argie_37:
(Start: 5 @36368 has 66 MA's), (7, 36374), (10, 36437), (18, 36515), (21, 36533), (22, 36587), (26, 36635), (31, 36686), (34, 36722), (37, 36743), (42, 36797), (48, 36884), (51, 36923), (79, 37061), (84, 37100), (89, 37142), (100, 37205), (114, 37289), (137, 37436), (138, 37442), (160, 37568), (162, 37580), (165, 37610), (171, 37649), (177, 37670), (184, 37703), (186, 37712), (189, 37727), (197, 37775), (199, 37778), (208, 37826), (211, 37862), (214, 37877), (222, 37928),

Gene: Arissanae_9 Start: 4305, Stop: 5855, Start Num: 5
Candidate Starts for Arissanae_9:
(Start: 5 @4305 has 66 MA's), (18, 4446), (23, 4518), (34, 4635), (37, 4656), (42, 4707), (63, 4887), (72, 4917), (86, 5007), (104, 5130), (124, 5226), (148, 5367), (160, 5442), (173, 5514), (180, 5544), (188, 5574), (206, 5670), (216, 5730),

Gene: Ayanochan_12 Start: 6179, Stop: 7759, Start Num: 5
Candidate Starts for Ayanochan_12:
(Start: 5 @6179 has 66 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (34, 6509), (37, 6530), (72, 6791), (96, 6953), (104, 7004), (121, 7121), (160, 7346), (173, 7418), (188, 7478), (206, 7574), (212, 7619), (217, 7637),

Gene: Bachome_10 Start: 6221, Stop: 7621, Start Num: 5
Candidate Starts for Bachome_10:
(1, 6182), (Start: 5 @6221 has 66 MA's), (18, 6368), (21, 6386), (29, 6506), (34, 6557), (37, 6578), (41, 6611), (53, 6758), (63, 6821), (67, 6827), (92, 6971), (103, 7052), (112, 7079), (139, 7283), (146, 7304), (151, 7328), (159, 7388), (164, 7421), (172, 7487), (191, 7583),

Gene: Baehexic_10 Start: 5209, Stop: 6513, Start Num: 4
Candidate Starts for Baehexic_10:
(Start: 4 @5209 has 69 MA's), (7, 5221), (8, 5254), (15, 5341), (30, 5500), (36, 5560), (37, 5566), (38, 5587), (45, 5647), (60, 5746), (61, 5749), (82, 5821), (144, 6088), (153, 6121), (162, 6175), (168, 6226), (178, 6271), (181, 6289), (201, 6406),

Gene: Beemo_11 Start: 6180, Stop: 7760, Start Num: 5
Candidate Starts for Beemo_11:
(Start: 5 @6180 has 66 MA's), (9, 6231), (18, 6321), (19, 6324), (21, 6339), (34, 6510), (37, 6531), (72, 6792), (96, 6954), (104, 7005), (121, 7122), (160, 7347), (173, 7419), (188, 7479), (206, 7575), (212, 7620), (217, 7638),

Gene: Bellris_8 Start: 4273, Stop: 5823, Start Num: 5
Candidate Starts for Bellris_8:
(Start: 5 @4273 has 66 MA's), (12, 4366), (18, 4414), (21, 4432), (24, 4495), (34, 4603), (37, 4624), (46, 4714), (63, 4855), (72, 4885), (86, 4975), (104, 5098), (132, 5236), (173, 5482), (180, 5512), (188, 5542), (206, 5638),

Gene: BengiVuitton_10 Start: 5133, Stop: 6422, Start Num: 4
Candidate Starts for BengiVuitton_10:
(Start: 4 @5133 has 69 MA's), (8, 5178), (15, 5265), (25, 5382), (30, 5424), (32, 5439), (36, 5484), (37, 5490), (38, 5511), (40, 5517), (82, 5742), (91, 5790), (144, 6009), (153, 6042), (168, 6147), (193, 6276),

Gene: Benvolio_9 Start: 4797, Stop: 6086, Start Num: 4
Candidate Starts for Benvolio_9:
(Start: 4 @4797 has 69 MA's), (7, 4809), (8, 4842), (15, 4929), (20, 4953), (30, 5088), (36, 5148), (37, 5154), (38, 5175), (40, 5181), (49, 5265), (65, 5331), (91, 5445), (144, 5664), (153, 5697), (168, 5802), (175, 5838), (192, 5928), (210, 6030),

Gene: BogosyJay_11 Start: 5937, Stop: 7517, Start Num: 5
Candidate Starts for BogosyJay_11:
(Start: 5 @5937 has 66 MA's), (12, 6030), (18, 6078), (19, 6081), (21, 6096), (34, 6267), (37, 6288), (46, 6378), (72, 6549), (96, 6711), (104, 6762), (135, 6963), (138, 6987), (173, 7176), (188, 7236), (206, 7332), (212, 7377), (217, 7395),

Gene: Bowtie_10 Start: 6224, Stop: 7624, Start Num: 5
Candidate Starts for Bowtie_10:
(1, 6185), (Start: 5 @6224 has 66 MA's), (18, 6371), (21, 6389), (29, 6509), (34, 6560), (37, 6581), (41, 6614), (53, 6761), (63, 6824), (67, 6830), (92, 6974), (103, 7055), (112, 7082), (139, 7286), (146, 7307), (151, 7331), (159, 7391), (164, 7424), (172, 7490), (191, 7586),

Gene: Bradman_8 Start: 4332, Stop: 5210, Start Num: 4
Candidate Starts for Bradman_8:
(Start: 4 @4332 has 69 MA's), (8, 4377), (13, 4440), (15, 4464), (30, 4623), (36, 4683), (37, 4689), (38, 4710), (40, 4716), (68, 4869), (75, 4893), (109, 5010), (120, 5076), (122, 5079), (126, 5094), (127, 5100), (131, 5115), (142, 5172),

Gene: Bud_10 Start: 6230, Stop: 7630, Start Num: 5
Candidate Starts for Bud_10:
(1, 6191), (Start: 5 @6230 has 66 MA's), (18, 6377), (21, 6395), (29, 6515), (34, 6566), (37, 6587), (41, 6620), (53, 6767), (63, 6830), (92, 6980), (103, 7061), (112, 7088), (139, 7292), (146, 7313), (151, 7337), (159, 7397), (164, 7430), (172, 7496), (191, 7592),

Gene: C3_07 Start: 4696, Stop: 6177, Start Num: 4
Candidate Starts for C3_07:
(Start: 4 @4696 has 69 MA's), (8, 4741), (14, 4825), (30, 4987), (36, 5047), (37, 5053), (38, 5074), (44, 5128), (45, 5134), (69, 5302), (80, 5353), (98, 5503), (113, 5584), (153, 5815), (163, 5878), (180, 5977), (209, 6106),

Gene: CRB1_9 Start: 4679, Stop: 5974, Start Num: 4
Candidate Starts for CRB1_9:
(Start: 4 @4679 has 69 MA's), (8, 4724), (15, 4811), (30, 4970), (36, 5030), (37, 5036), (38, 5057), (40, 5063), (61, 5219), (82, 5291), (91, 5339), (144, 5558), (153, 5591), (168, 5696), (179, 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), (30, 4628), (36, 4688), (37, 4694), (38, 4715), (40, 4721), (45, 4769), (69, 4937), (80, 4988), (147, 5417), (157, 5468), (158, 5471), (175, 5531), (176, 5534), (213, 5717),

Gene: Catalina_11 Start: 6147, Stop: 7727, Start Num: 5
Candidate Starts for Catalina_11:
(Start: 5 @6147 has 66 MA's), (9, 6198), (18, 6288), (19, 6291), (34, 6477), (37, 6498), (72, 6759), (96, 6921), (104, 6972), (121, 7089), (160, 7314), (173, 7386), (188, 7446), (206, 7542), (212, 7587), (217, 7605),

Gene: Celestialunch_10 Start: 4281, Stop: 5834, Start Num: 5
Candidate Starts for Celestialunch_10:
(Start: 5 @4281 has 66 MA's), (18, 4422), (34, 4611), (37, 4632), (63, 4863), (70, 4884), (86, 4983), (101, 5091), (104, 5106), (106, 5112), (124, 5202), (132, 5244), (148, 5343), (188, 5553), (198, 5604), (203, 5640), (206, 5649), (209, 5670),

Gene: Centaur_11 Start: 5188, Stop: 6492, Start Num: 4
Candidate Starts for Centaur_11:
(Start: 4 @5188 has 69 MA's), (8, 5233), (15, 5320), (30, 5479), (36, 5539), (37, 5545), (38, 5566), (39, 5569), (45, 5626), (60, 5725), (61, 5728), (82, 5800), (91, 5848), (144, 6067), (153, 6100), (162, 6154), (168, 6205), (178, 6250), (181, 6268),

Gene: Cepens_36 Start: 36083, Stop: 37705, Start Num: 5
Candidate Starts for Cepens_36:
(Start: 5 @36083 has 66 MA's), (7, 36089), (10, 36152), (18, 36230), (21, 36248), (22, 36302), (26, 36350), (31, 36401), (34, 36437), (37, 36458), (42, 36512), (46, 36551), (48, 36599), (51, 36638), (79, 36776), (84, 36815), (89, 36857), (100, 36920), (114, 37004), (137, 37151), (138, 37157), (160,

37283), (162, 37295), (165, 37325), (171, 37364), (177, 37385), (184, 37418), (186, 37427), (189, 37442), (197, 37490), (199, 37493), (200, 37502), (208, 37541), (211, 37577), (214, 37592), (222, 37643),

Gene: Changeling_12 Start: 6426, Stop: 7901, Start Num: 4
Candidate Starts for Changeling_12:
(Start: 4 @6426 has 69 MA's), (7, 6438), (15, 6558), (30, 6717), (36, 6777), (37, 6783), (38, 6804), (39, 6807), (55, 6942), (62, 6990), (66, 7011), (80, 7077), (97, 7224), (98, 7227), (113, 7308), (143, 7497), (153, 7539), (161, 7587), (163, 7602), (180, 7701), (192, 7764), (209, 7830),

Gene: Chargerpower_10 Start: 4583, Stop: 6187, Start Num: 5
Candidate Starts for Chargerpower_10:
(Start: 5 @4583 has 66 MA's), (18, 4724), (22, 4796), (34, 4931), (37, 4952), (42, 5003), (52, 5108), (86, 5303), (96, 5375), (104, 5426), (121, 5543), (160, 5768), (179, 5861), (188, 5906), (198, 5957), (206, 6002), (222, 6110),

Gene: Charm_10 Start: 4360, Stop: 5916, Start Num: 5
Candidate Starts for Charm_10:
(Start: 5 @4360 has 66 MA's), (18, 4501), (34, 4690), (37, 4711), (40, 4741), (104, 5185), (132, 5323), (148, 5422), (171, 5563), (173, 5569), (188, 5635), (206, 5731),

Gene: Che12_11 Start: 4473, Stop: 5840, Start Num: 4
Candidate Starts for Che12_11:
(Start: 4 @4473 has 69 MA's), (20, 4629), (30, 4764), (36, 4824), (37, 4830), (38, 4851), (40, 4857), (45, 4905), (63, 5055), (80, 5124), (111, 5286), (116, 5334), (125, 5397), (156, 5559), (157, 5562), (175, 5625), (176, 5628), (192, 5715),

Gene: CogOmlette_8 Start: 4273, Stop: 5823, Start Num: 5
Candidate Starts for CogOmlette_8:
(Start: 5 @4273 has 66 MA's), (12, 4366), (18, 4414), (21, 4432), (24, 4495), (34, 4603), (37, 4624), (46, 4714), (63, 4855), (72, 4885), (86, 4975), (104, 5098), (132, 5236), (173, 5482), (180, 5512), (188, 5542), (206, 5638),

Gene: Colin_13 Start: 6391, Stop: 7695, Start Num: 4
Candidate Starts for Colin_13:
(Start: 4 @6391 has 69 MA's), (7, 6403), (8, 6436), (15, 6523), (20, 6547), (30, 6682), (36, 6742), (37, 6748), (38, 6769), (39, 6772), (45, 6829), (49, 6868), (91, 7057), (144, 7276), (153, 7303), (161, 7348), (168, 7408), (192, 7534), (209, 7624), (210, 7636), (219, 7672),

Gene: Conquerage_11 Start: 6176, Stop: 7756, Start Num: 5
Candidate Starts for Conquerage_11:
(Start: 5 @6176 has 66 MA's), (9, 6227), (18, 6317), (19, 6320), (34, 6506), (37, 6527), (96, 6950), (104, 7001), (121, 7118), (135, 7202), (138, 7226), (145, 7253), (160, 7343), (173, 7415), (188, 7475), (206, 7571), (212, 7616), (217, 7634),

Gene: Crucio_9 Start: 4694, Stop: 5941, Start Num: 4
Candidate Starts for Crucio_9:
(Start: 4 @4694 has 69 MA's), (7, 4706), (8, 4739), (15, 4826), (20, 4850), (25, 4943), (30, 4985), (32, 5000), (36, 5045), (37, 5051), (38, 5072), (39, 5075), (61, 5222), (91, 5342), (144, 5561), (153, 5591), (156, 5615), (161, 5639), (180, 5738), (193, 5804), (195, 5810), (209, 5867),

Gene: D12_35 Start: 36653, Stop: 38275, Start Num: 5
Candidate Starts for D12_35:

(Start: 5 @36653 has 66 MA's), (7, 36659), (10, 36722), (18, 36800), (21, 36818), (22, 36872), (26, 36920), (31, 36971), (34, 37007), (37, 37028), (42, 37082), (48, 37169), (51, 37208), (79, 37346), (81, 37367), (84, 37385), (89, 37427), (100, 37490), (114, 37574), (137, 37721), (138, 37727), (160, 37853), (162, 37865), (165, 37895), (171, 37934), (177, 37955), (184, 37988), (186, 37997), (189, 38012), (197, 38060), (208, 38111), (211, 38147), (214, 38162), (222, 38213), (224, 38270),

Gene: D29_10 Start: 4697, Stop: 6178, Start Num: 4
Candidate Starts for D29_10:
(Start: 4 @4697 has 69 MA's), (8, 4742), (30, 4988), (36, 5048), (37, 5054), (38, 5075), (44, 5129), (45, 5135), (69, 5303), (80, 5354), (98, 5504), (113, 5585), (143, 5774), (153, 5816), (163, 5879), (180, 5978), (209, 6107),

Gene: D32_12 Start: 4697, Stop: 6178, Start Num: 4
Candidate Starts for D32_12:
(Start: 4 @4697 has 69 MA's), (8, 4742), (30, 4988), (36, 5048), (37, 5054), (38, 5075), (44, 5129), (45, 5135), (69, 5303), (80, 5354), (98, 5504), (113, 5585), (143, 5774), (153, 5816), (163, 5879), (180, 5978), (209, 6107),

Gene: DBQu4n_12 Start: 4697, Stop: 6178, Start Num: 4
Candidate Starts for DBQu4n_12:
(Start: 4 @4697 has 69 MA's), (8, 4742), (30, 4988), (36, 5048), (37, 5054), (38, 5075), (45, 5135), (69, 5303), (80, 5354), (98, 5504), (113, 5585), (143, 5774), (153, 5816), (163, 5879), (180, 5978), (209, 6107),

Gene: Dalmatian_9 Start: 4796, Stop: 6088, Start Num: 4
Candidate Starts for Dalmatian_9:
(Start: 4 @4796 has 69 MA's), (7, 4808), (8, 4841), (15, 4928), (20, 4952), (25, 5045), (30, 5087), (32, 5102), (36, 5147), (37, 5153), (38, 5174), (49, 5264), (61, 5324), (65, 5330), (91, 5444), (144, 5663), (153, 5696), (161, 5741), (168, 5801), (178, 5846), (192, 5927), (210, 6029),

Gene: Darrell_12 Start: 6369, Stop: 7949, Start Num: 5
Candidate Starts for Darrell_12:
(Start: 5 @6369 has 66 MA's), (9, 6420), (18, 6510), (19, 6513), (23, 6582), (34, 6699), (37, 6720), (46, 6810), (72, 6981), (86, 7071), (96, 7143), (104, 7194), (121, 7311), (138, 7419), (160, 7536), (173, 7608), (179, 7629), (188, 7668), (206, 7764), (217, 7827),

Gene: Deloris_10 Start: 5133, Stop: 6422, Start Num: 4
Candidate Starts for Deloris_10:
(Start: 4 @5133 has 69 MA's), (8, 5178), (15, 5265), (25, 5382), (30, 5424), (32, 5439), (36, 5484), (37, 5490), (38, 5511), (40, 5517), (82, 5742), (91, 5790), (144, 6009), (153, 6042), (168, 6147), (193, 6276),

Gene: Drake55_11 Start: 5205, Stop: 6509, Start Num: 4
Candidate Starts for Drake55_11:
(Start: 4 @5205 has 69 MA's), (8, 5250), (15, 5337), (30, 5496), (36, 5556), (37, 5562), (38, 5583), (45, 5643), (60, 5742), (61, 5745), (82, 5817), (144, 6084), (153, 6117), (162, 6171), (168, 6222), (178, 6267), (181, 6285),

Gene: DreamTeam1_10 Start: 4360, Stop: 5916, Start Num: 5
Candidate Starts for DreamTeam1_10:
(Start: 5 @4360 has 66 MA's), (18, 4501), (34, 4690), (37, 4711), (40, 4741), (104, 5185), (124, 5281), (148, 5422), (171, 5563), (173, 5569), (188, 5635), (206, 5731),

Gene: DudeLittle_9 Start: 4798, Stop: 6090, Start Num: 4
Candidate Starts for DudeLittle_9:
(Start: 4 @4798 has 69 MA's), (7, 4810), (8, 4843), (15, 4930), (20, 4954), (25, 5047), (30, 5089), (32, 5104), (36, 5149), (37, 5155), (38, 5176), (39, 5179), (49, 5266), (61, 5326), (65, 5332), (91, 5446), (144, 5665), (153, 5698), (161, 5743), (168, 5803), (178, 5848), (192, 5929), (210, 6031),

Gene: Duplo_12 Start: 4738, Stop: 6219, Start Num: 4
Candidate Starts for Duplo_12:
(Start: 4 @4738 has 69 MA's), (8, 4783), (30, 5029), (36, 5089), (37, 5095), (38, 5116), (44, 5170), (45, 5176), (69, 5344), (80, 5395), (98, 5545), (113, 5626), (143, 5815), (153, 5857), (163, 5920), (180, 6019), (209, 6148),

Gene: EZMoney23_13 Start: 6684, Stop: 7985, Start Num: 4
Candidate Starts for EZMoney23_13:
(Start: 4 @6684 has 69 MA's), (7, 6696), (8, 6729), (15, 6816), (25, 6933), (30, 6975), (36, 7035), (37, 7041), (38, 7062), (40, 7068), (49, 7161), (50, 7182), (65, 7230), (82, 7296), (144, 7563), (153, 7596), (168, 7701), (178, 7746), (192, 7827), (210, 7929),

Gene: EagleEye_12 Start: 5895, Stop: 7142, Start Num: 4
Candidate Starts for EagleEye_12:
(Start: 4 @5895 has 69 MA's), (8, 5940), (15, 6027), (27, 6159), (30, 6186), (32, 6201), (36, 6246), (37, 6252), (38, 6273), (40, 6279), (45, 6333), (49, 6372), (61, 6435), (65, 6441), (82, 6507), (91, 6555), (144, 6774), (152, 6801), (156, 6825), (161, 6849), (180, 6942), (193, 7008), (196, 7026),

Gene: Ebony_10 Start: 6285, Stop: 7682, Start Num: 6
Candidate Starts for Ebony_10:
(Start: 6 @6285 has 6 MA's), (17, 6423), (18, 6429), (21, 6447), (29, 6567), (34, 6618), (37, 6639), (41, 6672), (53, 6819), (63, 6882), (67, 6888), (92, 7032), (103, 7113), (112, 7140), (139, 7344), (146, 7365), (151, 7389), (159, 7449), (164, 7482), (172, 7548), (191, 7644),

Gene: Echild_9 Start: 4797, Stop: 6086, Start Num: 4
Candidate Starts for Echild_9:
(Start: 4 @4797 has 69 MA's), (7, 4809), (8, 4842), (15, 4929), (20, 4953), (30, 5088), (36, 5148), (37, 5154), (38, 5175), (40, 5181), (49, 5265), (65, 5331), (91, 5445), (144, 5664), (153, 5697), (168, 5802), (175, 5838), (192, 5928), (210, 6030),

Gene: EdogawaKiddo_9 Start: 6146, Stop: 7726, Start Num: 5
Candidate Starts for EdogawaKiddo_9:
(Start: 5 @6146 has 66 MA's), (9, 6197), (18, 6287), (19, 6290), (21, 6305), (34, 6476), (35, 6488), (37, 6497), (72, 6758), (96, 6920), (104, 6971), (121, 7088), (160, 7313), (173, 7385), (188, 7445), (206, 7541), (212, 7586), (217, 7604),

Gene: Eidsmoe_11 Start: 6176, Stop: 7756, Start Num: 5
Candidate Starts for Eidsmoe_11:
(Start: 5 @6176 has 66 MA's), (9, 6227), (18, 6317), (19, 6320), (34, 6506), (37, 6527), (96, 6950), (104, 7001), (121, 7118), (135, 7202), (138, 7226), (145, 7253), (160, 7343), (173, 7415), (188, 7475), (206, 7571), (212, 7616), (217, 7634),

Gene: Elephantoon_11 Start: 5798, Stop: 7378, Start Num: 5
Candidate Starts for Elephantoon_11:
(Start: 5 @5798 has 66 MA's), (9, 5849), (18, 5939), (21, 5957), (23, 6011), (34, 6128), (37, 6149), (72, 6410), (86, 6500), (96, 6572), (104, 6623), (138, 6848), (160, 6965), (173, 7037), (179, 7058), (188, 7097), (206, 7193),

Gene: EmyBug_11 Start: 6176, Stop: 7756, Start Num: 5
Candidate Starts for EmyBug_11:
(Start: 5 @6176 has 66 MA's), (9, 6227), (18, 6317), (19, 6320), (21, 6335), (34, 6506), (37, 6527), (72, 6788), (96, 6950), (104, 7001), (121, 7118), (160, 7343), (173, 7415), (188, 7475), (206, 7571), (212, 7616), (217, 7634),

Gene: Equemioh13_11 Start: 5191, Stop: 6495, Start Num: 4
Candidate Starts for Equemioh13_11:
(Start: 4 @5191 has 69 MA's), (8, 5236), (15, 5323), (30, 5482), (36, 5542), (37, 5548), (38, 5569), (39, 5572), (45, 5629), (60, 5728), (61, 5731), (82, 5803), (91, 5851), (144, 6070), (153, 6103), (162, 6157), (168, 6208), (178, 6253), (181, 6271), (201, 6388),

Gene: Et2Brutus_9 Start: 6227, Stop: 7627, Start Num: 5
Candidate Starts for Et2Brutus_9:
(1, 6188), (Start: 5 @6227 has 66 MA's), (17, 6368), (18, 6374), (21, 6392), (29, 6512), (34, 6563), (37, 6584), (41, 6617), (53, 6764), (63, 6827), (67, 6833), (92, 6977), (103, 7058), (112, 7085), (139, 7289), (146, 7310), (151, 7334), (159, 7394), (164, 7427), (172, 7493), (191, 7589),

Gene: ExplosioNervosa_11 Start: 6179, Stop: 7759, Start Num: 5
Candidate Starts for ExplosioNervosa_11:
(Start: 5 @6179 has 66 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (34, 6509), (37, 6530), (72, 6791), (96, 6953), (104, 7004), (121, 7121), (160, 7346), (173, 7418), (188, 7478), (206, 7574), (212, 7619), (217, 7637),

Gene: Fameo_9 Start: 4800, Stop: 6035, Start Num: 4
Candidate Starts for Fameo_9:
(Start: 4 @4800 has 69 MA's), (7, 4812), (8, 4845), (15, 4932), (20, 4956), (25, 5049), (30, 5091), (36, 5151), (37, 5157), (38, 5178), (40, 5184), (49, 5268), (61, 5328), (65, 5334), (82, 5400), (91, 5448), (144, 5667), (153, 5697), (156, 5721), (180, 5835), (193, 5901), (198, 5925),

Gene: FatCactus_8 Start: 3796, Stop: 5175, Start Num: 4
Candidate Starts for FatCactus_8:
(Start: 4 @3796 has 69 MA's), (8, 3841), (20, 3952), (30, 4087), (33, 4120), (36, 4147), (37, 4153), (38, 4174), (50, 4294), (80, 4453), (111, 4615), (119, 4702), (157, 4894), (158, 4897), (175, 4957), (176, 4960),

Gene: Fayely_11 Start: 6179, Stop: 7759, Start Num: 5
Candidate Starts for Fayely_11:
(Start: 5 @6179 has 66 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (34, 6509), (37, 6530), (72, 6791), (96, 6953), (104, 7004), (121, 7121), (160, 7346), (173, 7418), (188, 7478), (206, 7574), (212, 7619), (217, 7637),

Gene: Fibonacci_10 Start: 6227, Stop: 7627, Start Num: 5
Candidate Starts for Fibonacci_10:
(1, 6188), (Start: 5 @6227 has 66 MA's), (17, 6368), (18, 6374), (21, 6392), (29, 6512), (34, 6563), (37, 6584), (41, 6617), (53, 6764), (63, 6827), (67, 6833), (92, 6977), (103, 7058), (112, 7085), (139, 7289), (146, 7310), (151, 7334), (159, 7394), (164, 7427), (172, 7493), (191, 7589),

Gene: FiringLine_9 Start: 4694, Stop: 5941, Start Num: 4
Candidate Starts for FiringLine_9:
(Start: 4 @4694 has 69 MA's), (7, 4706), (8, 4739), (14, 4823), (15, 4826), (20, 4850), (25, 4943), (30, 4985), (32, 5000), (36, 5045), (37, 5051), (38, 5072), (39, 5075), (61, 5222), (91, 5342), (144, 5561),

(153, 5591), (156, 5615), (161, 5639), (180, 5738), (193, 5804), (195, 5810), (209, 5867),

Gene: First_009 Start: 4690, Stop: 5988, Start Num: 4
Candidate Starts for First_009:
(Start: 4 @4690 has 69 MA's), (8, 4735), (15, 4822), (20, 4846), (25, 4939), (30, 4981), (36, 5041), (37, 5047), (38, 5068), (40, 5074), (61, 5230), (82, 5302), (91, 5350), (144, 5569), (153, 5602), (168, 5707),

Gene: Flare16_9 Start: 4749, Stop: 6053, Start Num: 4
Candidate Starts for Flare16_9:
(Start: 4 @4749 has 69 MA's), (7, 4761), (8, 4794), (15, 4881), (27, 5013), (30, 5040), (36, 5100), (37, 5106), (38, 5127), (45, 5187), (60, 5286), (61, 5289), (82, 5361), (91, 5409), (144, 5628), (153, 5661), (162, 5715), (168, 5766), (178, 5811), (181, 5829),

Gene: Flaverint_10 Start: 6224, Stop: 7624, Start Num: 5
Candidate Starts for Flaverint_10:
(1, 6185), (Start: 5 @6224 has 66 MA's), (18, 6371), (21, 6389), (29, 6509), (34, 6560), (37, 6581), (41, 6614), (53, 6761), (63, 6824), (67, 6830), (92, 6974), (103, 7055), (112, 7082), (139, 7286), (146, 7307), (151, 7331), (159, 7391), (164, 7424), (172, 7490), (191, 7586),

Gene: FlyCatcher_12 Start: 5649, Stop: 7097, Start Num: 4
Candidate Starts for FlyCatcher_12:
(Start: 4 @5649 has 69 MA's), (8, 5694), (15, 5781), (25, 5898), (29, 5937), (30, 5940), (36, 6000), (37, 6006), (38, 6027), (40, 6033), (45, 6081), (57, 6174), (69, 6246), (80, 6297), (98, 6447), (111, 6507), (113, 6528), (125, 6618), (129, 6645), (147, 6732), (153, 6759), (156, 6780), (161, 6804), (173, 6864), (174, 6867), (180, 6897), (185, 6921), (193, 6963), (194, 6966), (204, 7002), (207, 7008), (220, 7080),

Gene: Gail_9 Start: 4567, Stop: 6147, Start Num: 5
Candidate Starts for Gail_9:
(Start: 5 @4567 has 66 MA's), (18, 4708), (19, 4711), (34, 4897), (37, 4918), (41, 4951), (42, 4969), (86, 5269), (94, 5329), (96, 5341), (104, 5392), (121, 5509), (141, 5635), (160, 5734), (173, 5806), (179, 5827), (188, 5869), (206, 5965),

Gene: Georgie2_9 Start: 4695, Stop: 5942, Start Num: 4
Candidate Starts for Georgie2_9:
(Start: 4 @4695 has 69 MA's), (7, 4707), (8, 4740), (15, 4827), (20, 4851), (25, 4944), (30, 4986), (32, 5001), (36, 5046), (37, 5052), (38, 5073), (39, 5076), (61, 5223), (91, 5343), (144, 5562), (153, 5592), (156, 5616), (161, 5640), (180, 5739), (193, 5805), (195, 5811), (209, 5868),

Gene: Gilberta_10 Start: 6221, Stop: 7621, Start Num: 5
Candidate Starts for Gilberta_10:
(1, 6182), (Start: 5 @6221 has 66 MA's), (18, 6368), (21, 6386), (29, 6506), (34, 6557), (37, 6578), (41, 6611), (53, 6758), (63, 6821), (67, 6827), (92, 6971), (103, 7052), (112, 7079), (139, 7283), (146, 7304), (151, 7328), (159, 7388), (164, 7421), (172, 7487), (191, 7583),

Gene: GodPhather_37 Start: 36847, Stop: 38469, Start Num: 5
Candidate Starts for GodPhather_37:
(Start: 5 @36847 has 66 MA's), (7, 36853), (10, 36916), (18, 36994), (21, 37012), (22, 37066), (26, 37114), (31, 37165), (34, 37201), (37, 37222), (42, 37276), (46, 37315), (48, 37363), (51, 37402), (79, 37540), (84, 37579), (89, 37621), (100, 37684), (114, 37768), (137, 37915), (138, 37921), (160, 38047), (162, 38059), (165, 38089), (171, 38128), (177, 38149), (184, 38182), (186, 38191), (189, 38206), (197, 38254), (208, 38305), (211, 38341), (214, 38356), (222, 38407),

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

Candidate Starts for Gratitude_10:
(Start: 4 @5191 has 69 MA's), (8, 5236), (15, 5323), (30, 5482), (36, 5542), (37, 5548), (38, 5569), (39, 5572), (45, 5629), (60, 5728), (61, 5731), (82, 5803), (91, 5851), (144, 6070), (153, 6103), (162, 6157), (168, 6208), (178, 6253), (181, 6271), (201, 6388),

Gene: Hanray_10 Start: 6182, Stop: 7762, Start Num: 5
Candidate Starts for Hanray_10:
(Start: 5 @6182 has 66 MA's), (9, 6233), (18, 6323), (19, 6326), (21, 6341), (34, 6512), (35, 6524), (37, 6533), (72, 6794), (96, 6956), (104, 7007), (121, 7124), (160, 7349), (173, 7421), (188, 7481), (206, 7577), (212, 7622), (217, 7640),

Gene: HarryHoudini_11 Start: 5205, Stop: 6509, Start Num: 4
Candidate Starts for HarryHoudini_11:
(Start: 4 @5205 has 69 MA's), (8, 5250), (15, 5337), (30, 5496), (36, 5556), (37, 5562), (38, 5583), (45, 5643), (60, 5742), (61, 5745), (82, 5817), (144, 6084), (153, 6117), (162, 6171), (168, 6222), (178, 6267), (181, 6285),

Gene: Heffalump_11 Start: 6599, Stop: 7834, Start Num: 4
Candidate Starts for Heffalump_11:
(Start: 4 @6599 has 69 MA's), (7, 6611), (8, 6644), (15, 6731), (20, 6755), (25, 6848), (30, 6890), (36, 6950), (37, 6956), (38, 6977), (40, 6983), (49, 7067), (61, 7127), (65, 7133), (82, 7199), (91, 7247), (144, 7466), (153, 7496), (156, 7520), (180, 7634), (193, 7700), (198, 7724),

Gene: HippoHollow_10 Start: 6245, Stop: 7762, Start Num: 4
Candidate Starts for HippoHollow_10:
(Start: 4 @6245 has 69 MA's), (8, 6290), (15, 6377), (23, 6470), (30, 6536), (32, 6551), (36, 6596), (37, 6602), (38, 6623), (40, 6629), (77, 6878), (80, 6893), (116, 7151), (130, 7241), (153, 7370), (168, 7475), (178, 7520), (181, 7538), (192, 7601),

Gene: Holex_10 Start: 6182, Stop: 7762, Start Num: 5
Candidate Starts for Holex_10:
(Start: 5 @6182 has 66 MA's), (9, 6233), (18, 6323), (19, 6326), (21, 6341), (34, 6512), (35, 6524), (37, 6533), (72, 6794), (96, 6956), (104, 7007), (121, 7124), (160, 7349), (173, 7421), (188, 7481), (206, 7577), (212, 7622), (217, 7640),

Gene: HortumSL17_11 Start: 6146, Stop: 7726, Start Num: 5
Candidate Starts for HortumSL17_11:
(Start: 5 @6146 has 66 MA's), (9, 6197), (18, 6287), (19, 6290), (34, 6476), (37, 6497), (72, 6758), (96, 6920), (104, 6971), (121, 7088), (160, 7313), (173, 7385), (188, 7445), (206, 7541), (212, 7586), (217, 7604),

Gene: Hutc2_10 Start: 6227, Stop: 7627, Start Num: 5
Candidate Starts for Hutc2_10:
(1, 6188), (Start: 5 @6227 has 66 MA's), (17, 6368), (18, 6374), (21, 6392), (29, 6512), (34, 6563), (37, 6584), (41, 6617), (53, 6764), (63, 6827), (67, 6833), (92, 6977), (103, 7058), (112, 7085), (139, 7289), (146, 7310), (151, 7334), (159, 7394), (164, 7427), (172, 7493), (191, 7589),

Gene: Insomnia_10 Start: 6279, Stop: 7676, Start Num: 6
Candidate Starts for Insomnia_10:
(Start: 6 @6279 has 6 MA's), (17, 6417), (18, 6423), (21, 6441), (29, 6561), (34, 6612), (37, 6633), (41, 6666), (53, 6813), (63, 6876), (67, 6882), (92, 7026), (103, 7107), (112, 7134), (139, 7338), (146, 7359), (151, 7383), (159, 7443), (164, 7476), (172, 7542), (191, 7638),

Gene: Iwokeuplikedis_9 Start: 4489, Stop: 5760, Start Num: 4
Candidate Starts for Iwokeuplikedis_9:
(Start: 4 @4489 has 69 MA's), (8, 4534), (15, 4621), (30, 4780), (31, 4792), (33, 4813), (36, 4840), (37, 4846), (38, 4867), (40, 4873), (49, 4966), (82, 5098), (91, 5146), (144, 5365), (153, 5398), (156, 5422), (180, 5560), (183, 5569),

Gene: Jabith_10 Start: 6279, Stop: 7676, Start Num: 6
Candidate Starts for Jabith_10:
(Start: 6 @6279 has 6 MA's), (17, 6417), (18, 6423), (21, 6441), (29, 6561), (34, 6612), (37, 6633), (41, 6666), (53, 6813), (63, 6876), (67, 6882), (92, 7026), (103, 7107), (112, 7134), (139, 7338), (146, 7359), (151, 7383), (159, 7443), (164, 7476), (172, 7542), (191, 7638),

Gene: Jeeves_9 Start: 4583, Stop: 6160, Start Num: 5
Candidate Starts for Jeeves_9:
(Start: 5 @4583 has 66 MA's), (18, 4724), (19, 4727), (34, 4913), (37, 4934), (42, 4985), (81, 5246), (86, 5285), (96, 5357), (101, 5393), (104, 5408), (121, 5525), (141, 5651), (160, 5750), (173, 5822), (177, 5837), (188, 5882), (206, 5978), (212, 6023),

Gene: Jeon_36 Start: 36589, Stop: 38211, Start Num: 5
Candidate Starts for Jeon_36:
(Start: 5 @36589 has 66 MA's), (7, 36595), (10, 36658), (18, 36736), (21, 36754), (22, 36808), (26, 36856), (31, 36907), (34, 36943), (37, 36964), (42, 37018), (46, 37057), (48, 37105), (51, 37144), (79, 37282), (84, 37321), (89, 37363), (100, 37426), (114, 37510), (137, 37657), (138, 37663), (160, 37789), (162, 37801), (165, 37831), (171, 37870), (177, 37891), (184, 37924), (186, 37933), (189, 37948), (197, 37996), (208, 38047), (211, 38083), (214, 38098), (222, 38149),

Gene: Jiawan_10 Start: 6182, Stop: 7762, Start Num: 5
Candidate Starts for Jiawan_10:
(Start: 5 @6182 has 66 MA's), (9, 6233), (18, 6323), (19, 6326), (21, 6341), (34, 6512), (35, 6524), (37, 6533), (72, 6794), (96, 6956), (104, 7007), (121, 7124), (160, 7349), (173, 7421), (188, 7481), (206, 7577), (212, 7622), (217, 7640),

Gene: Joselito_10 Start: 6224, Stop: 7624, Start Num: 5
Candidate Starts for Joselito_10:
(1, 6185), (Start: 5 @6224 has 66 MA's), (18, 6371), (21, 6389), (29, 6509), (34, 6560), (37, 6581), (41, 6614), (53, 6761), (63, 6824), (67, 6830), (92, 6974), (103, 7055), (112, 7082), (139, 7286), (146, 7307), (151, 7331), (159, 7391), (164, 7424), (172, 7490), (191, 7586),

Gene: Journey13_7 Start: 4346, Stop: 5233, Start Num: 4
Candidate Starts for Journey13_7:
(Start: 4 @4346 has 69 MA's), (8, 4391), (15, 4478), (20, 4502), (25, 4595), (30, 4637), (36, 4697), (37, 4703), (38, 4724), (40, 4730), (45, 4778), (64, 4877), (69, 4886), (83, 4943), (105, 5024), (110, 5033), (120, 5099),

Gene: Jsquared_8 Start: 4286, Stop: 5164, Start Num: 4
Candidate Starts for Jsquared_8:
(Start: 4 @4286 has 69 MA's), (8, 4331), (13, 4394), (15, 4418), (30, 4577), (36, 4637), (37, 4643), (38, 4664), (40, 4670), (68, 4823), (75, 4847), (109, 4964), (120, 5030), (122, 5033), (126, 5048), (127, 5054), (131, 5069), (142, 5126),

Gene: Kalpine_12 Start: 6504, Stop: 7799, Start Num: 4
Candidate Starts for Kalpine_12:

(Start: 4 @6504 has 69 MA's), (7, 6516), (8, 6549), (15, 6636), (20, 6660), (25, 6753), (30, 6795), (32, 6810), (36, 6855), (37, 6861), (38, 6882), (40, 6888), (91, 7161), (144, 7380), (153, 7407), (161, 7452), (166, 7494), (168, 7512), (178, 7557), (192, 7638), (209, 7728), (210, 7740),

Gene: Kerberos_12 Start: 4697, Stop: 6178, Start Num: 4
Candidate Starts for Kerberos_12:
(Start: 4 @4697 has 69 MA's), (8, 4742), (30, 4988), (36, 5048), (37, 5054), (38, 5075), (45, 5135), (69, 5303), (80, 5354), (98, 5504), (113, 5585), (143, 5774), (153, 5816), (163, 5879), (180, 5978), (209, 6107),

Gene: Keziacharles14_9 Start: 4347, Stop: 5900, Start Num: 5
Candidate Starts for Keziacharles14_9:
(Start: 5 @4347 has 66 MA's), (10, 4413), (18, 4488), (21, 4506), (34, 4677), (37, 4698), (81, 5010), (86, 5049), (101, 5157), (104, 5172), (124, 5268), (132, 5310), (139, 5379), (145, 5394), (148, 5409), (188, 5619), (206, 5715), (209, 5736), (212, 5760),

Gene: Kimba_10 Start: 6279, Stop: 7676, Start Num: 6
Candidate Starts for Kimba_10:
(Start: 6 @6279 has 6 MA's), (17, 6417), (18, 6423), (21, 6441), (29, 6561), (34, 6612), (37, 6633), (41, 6666), (53, 6813), (63, 6876), (67, 6882), (92, 7026), (103, 7107), (112, 7134), (139, 7338), (146, 7359), (151, 7383), (159, 7443), (164, 7476), (172, 7542), (191, 7638),

Gene: Kinmap_8 Start: 4508, Stop: 5944, Start Num: 5
Candidate Starts for Kinmap_8:
(Start: 5 @4508 has 66 MA's), (9, 4559), (18, 4652), (19, 4655), (22, 4724), (34, 4859), (37, 4880), (41, 4913), (56, 5060), (78, 5159), (79, 5162), (88, 5231), (93, 5267), (95, 5279), (101, 5321), (107, 5348), (113, 5372), (117, 5414), (128, 5468), (136, 5513), (149, 5573), (160, 5648), (169, 5705), (182, 5762), (202, 5873),

Gene: Klodlith_10 Start: 4360, Stop: 5916, Start Num: 5
Candidate Starts for Klodlith_10:
(Start: 5 @4360 has 66 MA's), (18, 4501), (34, 4690), (37, 4711), (40, 4741), (104, 5185), (124, 5281), (148, 5422), (171, 5563), (173, 5569), (188, 5635), (206, 5731),

Gene: Koduck_9 Start: 4573, Stop: 5451, Start Num: 4
Candidate Starts for Koduck_9:
(Start: 4 @4573 has 69 MA's), (8, 4618), (13, 4681), (15, 4705), (25, 4822), (28, 4846), (29, 4861), (30, 4864), (35, 4921), (36, 4924), (37, 4930), (40, 4957), (68, 5110), (75, 5134), (109, 5251), (120, 5317), (122, 5320), (126, 5335), (127, 5341), (131, 5356),

Gene: L5_10 Start: 4581, Stop: 5459, Start Num: 4
Candidate Starts for L5_10:
(Start: 4 @4581 has 69 MA's), (8, 4626), (13, 4689), (15, 4713), (25, 4830), (28, 4854), (29, 4869), (30, 4872), (35, 4929), (36, 4932), (37, 4938), (40, 4965), (68, 5118), (75, 5142), (109, 5259), (120, 5325), (122, 5328), (126, 5343), (127, 5349), (131, 5364),

Gene: LadyBird_9 Start: 4681, Stop: 5976, Start Num: 4
Candidate Starts for LadyBird_9:
(Start: 4 @4681 has 69 MA's), (8, 4726), (15, 4813), (20, 4837), (30, 4972), (36, 5032), (37, 5038), (38, 5059), (40, 5065), (82, 5293), (91, 5341), (144, 5560), (153, 5593), (168, 5698), (179, 5746),

Gene: Lilleskat_9 Start: 6146, Stop: 7726, Start Num: 5
Candidate Starts for Lilleskat_9:

(Start: 5 @6146 has 66 MA's), (18, 6287), (19, 6290), (21, 6305), (34, 6476), (35, 6488), (37, 6497), (72, 6758), (96, 6920), (104, 6971), (121, 7088), (160, 7313), (173, 7385), (188, 7445), (206, 7541), (212, 7586), (217, 7604),

Gene: LionsBait_10 Start: 6239, Stop: 7756, Start Num: 4
Candidate Starts for LionsBait_10:
(Start: 4 @6239 has 69 MA's), (8, 6284), (15, 6371), (23, 6464), (30, 6530), (32, 6545), (36, 6590), (37, 6596), (38, 6617), (40, 6623), (77, 6872), (80, 6887), (116, 7145), (130, 7235), (153, 7364), (168, 7469), (178, 7514), (181, 7532), (192, 7595),

Gene: LoneWolf_11 Start: 5993, Stop: 7573, Start Num: 5
Candidate Starts for LoneWolf_11:
(Start: 5 @5993 has 66 MA's), (9, 6044), (18, 6134), (19, 6137), (21, 6152), (23, 6206), (34, 6323), (35, 6335), (37, 6344), (72, 6605), (96, 6767), (104, 6818), (121, 6935), (160, 7160), (173, 7232), (188, 7292), (206, 7388), (212, 7433), (217, 7451),

Gene: Loser_12 Start: 6404, Stop: 7858, Start Num: 4
Candidate Starts for Loser_12:
(Start: 4 @6404 has 69 MA's), (7, 6416), (15, 6536), (25, 6653), (30, 6695), (36, 6755), (37, 6761), (38, 6782), (39, 6785), (62, 6968), (80, 7055), (97, 7202), (98, 7205), (113, 7286), (143, 7475), (153, 7517), (155, 7535), (156, 7541), (180, 7658), (193, 7724), (205, 7763),

Gene: Luchador_9 Start: 4568, Stop: 6148, Start Num: 5
Candidate Starts for Luchador_9:
(Start: 5 @4568 has 66 MA's), (18, 4709), (19, 4712), (34, 4898), (37, 4919), (41, 4952), (42, 4970), (81, 5231), (86, 5270), (94, 5330), (96, 5342), (104, 5393), (121, 5510), (141, 5636), (160, 5735), (173, 5807), (179, 5828), (188, 5870), (206, 5966), (212, 6011),

Gene: Lucivia_10 Start: 6276, Stop: 7673, Start Num: 6
Candidate Starts for Lucivia_10:
(Start: 6 @6276 has 6 MA's), (17, 6414), (18, 6420), (21, 6438), (29, 6558), (34, 6609), (37, 6630), (41, 6663), (53, 6810), (63, 6873), (67, 6879), (92, 7023), (103, 7104), (112, 7131), (139, 7335), (146, 7356), (151, 7380), (159, 7440), (164, 7473), (172, 7539), (191, 7635),

Gene: MaCh_10 Start: 6221, Stop: 7621, Start Num: 5
Candidate Starts for MaCh_10:
(1, 6182), (Start: 5 @6221 has 66 MA's), (18, 6368), (21, 6386), (29, 6506), (34, 6557), (37, 6578), (41, 6611), (53, 6758), (63, 6821), (67, 6827), (92, 6971), (103, 7052), (112, 7079), (139, 7283), (146, 7304), (151, 7328), (159, 7388), (164, 7421), (172, 7487), (191, 7583),

Gene: Mabel_10 Start: 6291, Stop: 7688, Start Num: 6
Candidate Starts for Mabel_10:
(Start: 6 @6291 has 6 MA's), (17, 6429), (18, 6435), (21, 6453), (29, 6573), (34, 6624), (37, 6645), (41, 6678), (53, 6825), (63, 6888), (67, 6894), (92, 7038), (103, 7119), (112, 7146), (139, 7350), (146, 7371), (151, 7395), (159, 7455), (164, 7488), (172, 7554), (191, 7650),

Gene: MajorMajor_8 Start: 4332, Stop: 5210, Start Num: 4
Candidate Starts for MajorMajor_8:
(Start: 4 @4332 has 69 MA's), (8, 4377), (13, 4440), (15, 4464), (30, 4623), (36, 4683), (37, 4689), (38, 4710), (40, 4716), (68, 4869), (75, 4893), (109, 5010), (120, 5076), (122, 5079), (126, 5094), (127, 5100), (131, 5115), (142, 5172),

Gene: Maminiaina_11 Start: 5916, Stop: 7496, Start Num: 5

Candidate Starts for Maminiaina_11:
(Start: 5 @5916 has 66 MA's), (9, 5967), (18, 6057), (21, 6075), (34, 6246), (37, 6267), (72, 6528), (96, 6690), (104, 6741), (121, 6858), (173, 7155), (188, 7215), (206, 7311), (212, 7356), (217, 7374),

Gene: MegTheThird_9 Start: 4281, Stop: 5834, Start Num: 5
Candidate Starts for MegTheThird_9:
(Start: 5 @4281 has 66 MA's), (18, 4422), (34, 4611), (37, 4632), (70, 4884), (86, 4983), (101, 5091), (104, 5106), (106, 5112), (124, 5202), (132, 5244), (148, 5343), (188, 5553), (198, 5604), (203, 5640), (206, 5649), (209, 5670),

Gene: Megabear_36 Start: 36026, Stop: 37648, Start Num: 5
Candidate Starts for Megabear_36:
(Start: 5 @36026 has 66 MA's), (7, 36032), (10, 36095), (18, 36173), (21, 36191), (22, 36245), (26, 36293), (31, 36344), (34, 36380), (37, 36401), (42, 36455), (48, 36542), (51, 36581), (79, 36719), (84, 36758), (89, 36800), (100, 36863), (114, 36947), (137, 37094), (138, 37100), (160, 37226), (162, 37238), (165, 37268), (171, 37307), (177, 37328), (184, 37361), (186, 37370), (189, 37385), (197, 37433), (208, 37484), (211, 37520), (214, 37535), (222, 37586), (224, 37643),

Gene: MiculUcigas_9 Start: 4749, Stop: 6053, Start Num: 4
Candidate Starts for MiculUcigas_9:
(Start: 4 @4749 has 69 MA's), (7, 4761), (8, 4794), (15, 4881), (27, 5013), (30, 5040), (36, 5100), (37, 5106), (38, 5127), (45, 5187), (60, 5286), (61, 5289), (82, 5361), (91, 5409), (144, 5628), (153, 5661), (162, 5715), (168, 5766), (178, 5811), (181, 5829),

Gene: Minispark_8 Start: 4273, Stop: 5823, Start Num: 5
Candidate Starts for Minispark_8:
(Start: 5 @4273 has 66 MA's), (12, 4366), (18, 4414), (21, 4432), (24, 4495), (34, 4603), (37, 4624), (72, 4885), (86, 4975), (104, 5098), (132, 5236), (148, 5335), (173, 5482), (180, 5512), (188, 5542), (206, 5638),

Gene: MissWhite_9 Start: 4390, Stop: 5277, Start Num: 4
Candidate Starts for MissWhite_9:
(Start: 4 @4390 has 69 MA's), (8, 4435), (15, 4522), (25, 4639), (29, 4678), (30, 4681), (36, 4741), (37, 4747), (38, 4768), (40, 4774), (45, 4822), (64, 4921), (69, 4930), (83, 4987), (105, 5068), (110, 5077),

Gene: Mulciber_10 Start: 6227, Stop: 7627, Start Num: 5
Candidate Starts for Mulciber_10:
(1, 6188), (Start: 5 @6227 has 66 MA's), (17, 6368), (18, 6374), (21, 6392), (29, 6512), (34, 6563), (37, 6584), (41, 6617), (53, 6764), (63, 6827), (67, 6833), (92, 6977), (103, 7058), (112, 7085), (139, 7289), (146, 7310), (151, 7334), (159, 7394), (164, 7427), (172, 7493), (191, 7589),

Gene: Munch_10 Start: 6224, Stop: 7624, Start Num: 5
Candidate Starts for Munch_10:
(1, 6185), (Start: 5 @6224 has 66 MA's), (18, 6371), (21, 6389), (29, 6509), (34, 6560), (37, 6581), (41, 6614), (53, 6761), (63, 6824), (67, 6830), (92, 6974), (103, 7055), (112, 7082), (139, 7286), (146, 7307), (151, 7331), (159, 7391), (164, 7424), (172, 7490), (191, 7586),

Gene: Myxus_11 Start: 6146, Stop: 7726, Start Num: 5
Candidate Starts for Myxus_11:
(Start: 5 @6146 has 66 MA's), (9, 6197), (18, 6287), (19, 6290), (34, 6476), (37, 6497), (72, 6758), (96, 6920), (104, 6971), (121, 7088), (160, 7313), (173, 7385), (188, 7445), (206, 7541), (212, 7586), (217, 7604),

Gene: NaSiaTalie_9 Start: 4749, Stop: 6050, Start Num: 4
Candidate Starts for NaSiaTalie_9:
(Start: 4 @4749 has 69 MA's), (8, 4794), (15, 4881), (30, 5040), (36, 5100), (37, 5106), (38, 5127), (60, 5283), (61, 5286), (82, 5358), (91, 5406), (144, 5625), (153, 5658), (162, 5712), (168, 5763), (178, 5808), (181, 5826),

Gene: Naji_12 Start: 4697, Stop: 6178, Start Num: 4
Candidate Starts for Naji_12:
(Start: 4 @4697 has 69 MA's), (8, 4742), (30, 4988), (36, 5048), (37, 5054), (38, 5075), (44, 5129), (45, 5135), (69, 5303), (80, 5354), (98, 5504), (113, 5585), (143, 5774), (153, 5816), (163, 5879), (180, 5978), (209, 6107),

Gene: NicoleTera_13 Start: 6467, Stop: 7756, Start Num: 4
Candidate Starts for NicoleTera_13:
(Start: 4 @6467 has 69 MA's), (8, 6512), (15, 6599), (25, 6716), (30, 6758), (33, 6791), (36, 6818), (37, 6824), (38, 6845), (40, 6851), (45, 6893), (82, 7064), (91, 7112), (144, 7331), (153, 7364), (168, 7469), (175, 7505), (179, 7517), (190, 7577), (192, 7595), (210, 7697),

Gene: Odin_9 Start: 4473, Stop: 5888, Start Num: 4
Candidate Starts for Odin_9:
(Start: 4 @4473 has 69 MA's), (30, 4764), (36, 4824), (37, 4830), (38, 4851), (40, 4857), (43, 4896), (69, 5079), (80, 5130), (147, 5559), (157, 5610), (158, 5613), (175, 5673), (176, 5676),

Gene: Onglai_10 Start: 4512, Stop: 6092, Start Num: 5
Candidate Starts for Onglai_10:
(Start: 5 @4512 has 66 MA's), (9, 4563), (18, 4653), (19, 4656), (21, 4671), (34, 4842), (35, 4854), (37, 4863), (72, 5124), (96, 5286), (104, 5337), (121, 5454), (160, 5679), (173, 5751), (188, 5811), (206, 5907), (212, 5952), (217, 5970),

Gene: Orange_10 Start: 6224, Stop: 7624, Start Num: 5
Candidate Starts for Orange_10:
(1, 6185), (Start: 5 @6224 has 66 MA's), (17, 6365), (18, 6371), (21, 6389), (29, 6509), (34, 6560), (37, 6581), (41, 6614), (53, 6761), (63, 6824), (67, 6830), (92, 6974), (103, 7055), (112, 7082), (139, 7286), (146, 7307), (151, 7331), (159, 7391), (164, 7424), (172, 7490), (191, 7586),

Gene: PR_36 Start: 36630, Stop: 38252, Start Num: 5
Candidate Starts for PR_36:
(Start: 5 @36630 has 66 MA's), (7, 36636), (10, 36699), (18, 36777), (21, 36795), (22, 36849), (26, 36897), (31, 36948), (34, 36984), (37, 37005), (42, 37059), (48, 37146), (51, 37185), (79, 37323), (81, 37344), (84, 37362), (89, 37404), (100, 37467), (114, 37551), (137, 37698), (138, 37704), (160, 37830), (162, 37842), (165, 37872), (171, 37911), (177, 37932), (184, 37965), (186, 37974), (189, 37989), (197, 38037), (208, 38088), (211, 38124), (214, 38139), (222, 38190), (224, 38247),

Gene: PackMan_11 Start: 6146, Stop: 7726, Start Num: 5
Candidate Starts for PackMan_11:
(Start: 5 @6146 has 66 MA's), (9, 6197), (18, 6287), (19, 6290), (34, 6476), (37, 6497), (72, 6758), (96, 6920), (104, 6971), (121, 7088), (160, 7313), (173, 7385), (188, 7445), (206, 7541), (212, 7586), (217, 7604),

Gene: Petersenfast_9 Start: 6227, Stop: 7627, Start Num: 5
Candidate Starts for Petersenfast_9:
(1, 6188), (Start: 5 @6227 has 66 MA's), (17, 6368), (18, 6374), (21, 6392), (29, 6512), (34, 6563), (37, 6584), (41, 6617), (53, 6764), (63, 6827), (67, 6833), (92, 6977), (103, 7058), (112, 7085), (139, 7289),

(146, 7310), (151, 7334), (159, 7394), (164, 7427), (172, 7493), (191, 7589),

Gene: Ph8s_11 Start: 4474, Stop: 5847, Start Num: 4
Candidate Starts for Ph8s_11:
(Start: 4 @4474 has 69 MA's), (16, 4609), (20, 4630), (30, 4765), (33, 4798), (36, 4825), (37, 4831), (38, 4852), (40, 4858), (63, 5062), (80, 5131), (116, 5341), (125, 5404), (156, 5566), (157, 5569), (175, 5632), (176, 5635), (192, 5722),

Gene: Phaeder_11 Start: 6146, Stop: 7726, Start Num: 5
Candidate Starts for Phaeder_11:
(Start: 5 @6146 has 66 MA's), (9, 6197), (18, 6287), (19, 6290), (34, 6476), (37, 6497), (72, 6758), (96, 6920), (104, 6971), (121, 7088), (160, 7313), (173, 7385), (188, 7445), (206, 7541), (212, 7586), (217, 7604),

Gene: Phonnegut_11 Start: 6179, Stop: 7759, Start Num: 5
Candidate Starts for Phonnegut_11:
(Start: 5 @6179 has 66 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (34, 6509), (37, 6530), (72, 6791), (96, 6953), (104, 7004), (121, 7121), (160, 7346), (173, 7418), (188, 7478), (206, 7574), (212, 7619), (217, 7637),

Gene: Pioneer_11 Start: 6179, Stop: 7759, Start Num: 5
Candidate Starts for Pioneer_11:
(Start: 5 @6179 has 66 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (34, 6509), (37, 6530), (72, 6791), (96, 6953), (104, 7004), (121, 7121), (160, 7346), (173, 7418), (188, 7478), (206, 7574), (212, 7619), (217, 7637),

Gene: Piro94_10 Start: 5206, Stop: 6510, Start Num: 4
Candidate Starts for Piro94_10:
(Start: 4 @5206 has 69 MA's), (8, 5251), (15, 5338), (23, 5431), (30, 5497), (36, 5557), (37, 5563), (38, 5584), (45, 5644), (60, 5743), (61, 5746), (82, 5818), (144, 6085), (153, 6118), (162, 6172), (168, 6223), (178, 6268), (181, 6286),

Gene: Pomar16_12 Start: 4738, Stop: 6219, Start Num: 4
Candidate Starts for Pomar16_12:
(Start: 4 @4738 has 69 MA's), (8, 4783), (30, 5029), (36, 5089), (37, 5095), (38, 5116), (45, 5176), (69, 5344), (80, 5395), (98, 5545), (113, 5626), (143, 5815), (153, 5857), (163, 5920), (180, 6019), (209, 6148),

Gene: Power_9 Start: 4694, Stop: 5941, Start Num: 4
Candidate Starts for Power_9:
(Start: 4 @4694 has 69 MA's), (7, 4706), (8, 4739), (15, 4826), (20, 4850), (25, 4943), (30, 4985), (32, 5000), (36, 5045), (37, 5051), (38, 5072), (39, 5075), (61, 5222), (91, 5342), (144, 5561), (153, 5591), (156, 5615), (161, 5639), (180, 5738), (193, 5804), (195, 5810), (209, 5867),

Gene: Priya_11 Start: 6177, Stop: 7757, Start Num: 5
Candidate Starts for Priya_11:
(Start: 5 @6177 has 66 MA's), (9, 6228), (18, 6318), (19, 6321), (34, 6507), (37, 6528), (96, 6951), (104, 7002), (121, 7119), (135, 7203), (138, 7227), (145, 7254), (160, 7344), (173, 7416), (188, 7476), (206, 7572), (212, 7617), (217, 7635),

Gene: Prudy_11 Start: 6526, Stop: 7824, Start Num: 4
Candidate Starts for Prudy_11:

(Start: 4 @6526 has 69 MA's), (8, 6571), (27, 6790), (30, 6817), (36, 6877), (37, 6883), (38, 6904), (40, 6910), (45, 6958), (91, 7180), (144, 7399), (153, 7432), (168, 7537), (170, 7555), (175, 7573), (179, 7585), (192, 7663), (209, 7753), (210, 7765),

Gene: Qobbit_11 Start: 6176, Stop: 7756, Start Num: 5
Candidate Starts for Qobbit_11:
(Start: 5 @6176 has 66 MA's), (9, 6227), (18, 6317), (19, 6320), (21, 6335), (34, 6506), (37, 6527), (72, 6788), (96, 6950), (104, 7001), (121, 7118), (160, 7343), (173, 7415), (188, 7475), (206, 7571), (212, 7616), (217, 7634),

Gene: QueenB2_9 Start: 4800, Stop: 6035, Start Num: 4
Candidate Starts for QueenB2_9:
(Start: 4 @4800 has 69 MA's), (7, 4812), (8, 4845), (15, 4932), (20, 4956), (25, 5049), (30, 5091), (36, 5151), (37, 5157), (38, 5178), (40, 5184), (49, 5268), (61, 5328), (65, 5334), (82, 5400), (91, 5448), (144, 5667), (153, 5697), (156, 5721), (180, 5835), (193, 5901), (198, 5925),

Gene: QueenBeesly_9 Start: 4694, Stop: 5941, Start Num: 4
Candidate Starts for QueenBeesly_9:
(Start: 4 @4694 has 69 MA's), (7, 4706), (8, 4739), (14, 4823), (15, 4826), (20, 4850), (25, 4943), (30, 4985), (32, 5000), (36, 5045), (37, 5051), (38, 5072), (39, 5075), (61, 5222), (91, 5342), (144, 5561), (153, 5591), (156, 5615), (161, 5639), (180, 5738), (193, 5804), (195, 5810), (209, 5867),

Gene: Quokka_7 Start: 4332, Stop: 5210, Start Num: 4
Candidate Starts for Quokka_7:
(Start: 4 @4332 has 69 MA's), (8, 4377), (13, 4440), (15, 4464), (30, 4623), (36, 4683), (37, 4689), (38, 4710), (40, 4716), (68, 4869), (75, 4893), (109, 5010), (120, 5076), (122, 5079), (126, 5094), (127, 5100), (131, 5115), (142, 5172),

Gene: Rahalelujah_9 Start: 4273, Stop: 5823, Start Num: 5
Candidate Starts for Rahalelujah_9:
(Start: 5 @4273 has 66 MA's), (12, 4366), (18, 4414), (21, 4432), (24, 4495), (34, 4603), (37, 4624), (46, 4714), (63, 4855), (72, 4885), (86, 4975), (104, 5098), (132, 5236), (173, 5482), (180, 5512), (188, 5542), (206, 5638),

Gene: RedRock_12 Start: 6487, Stop: 7968, Start Num: 4
Candidate Starts for RedRock_12:
(Start: 4 @6487 has 69 MA's), (8, 6532), (15, 6619), (25, 6736), (30, 6778), (36, 6838), (37, 6844), (38, 6865), (39, 6868), (55, 7009), (62, 7057), (80, 7144), (97, 7291), (98, 7294), (113, 7375), (143, 7564), (153, 7606), (155, 7624), (156, 7630), (161, 7654), (180, 7768), (183, 7777), (209, 7897),

Gene: Retro23_9 Start: 4797, Stop: 6089, Start Num: 4
Candidate Starts for Retro23_9:
(Start: 4 @4797 has 69 MA's), (7, 4809), (8, 4842), (15, 4929), (20, 4953), (25, 5046), (30, 5088), (32, 5103), (36, 5148), (37, 5154), (38, 5175), (49, 5265), (61, 5325), (65, 5331), (91, 5445), (144, 5664), (153, 5697), (161, 5742), (168, 5802), (178, 5847), (192, 5928), (210, 6030),

Gene: RyeScarlet_12 Start: 6182, Stop: 7762, Start Num: 5
Candidate Starts for RyeScarlet_12:
(Start: 5 @6182 has 66 MA's), (9, 6233), (18, 6323), (19, 6326), (21, 6341), (34, 6512), (35, 6524), (37, 6533), (72, 6794), (96, 6956), (104, 7007), (121, 7124), (160, 7349), (173, 7421), (188, 7481), (206, 7577), (212, 7622), (217, 7640),

Gene: Sachima_9 Start: 6146, Stop: 7726, Start Num: 5

Candidate Starts for Sachima_9:
(Start: 5 @6146 has 66 MA's), (9, 6197), (18, 6287), (19, 6290), (21, 6305), (34, 6476), (35, 6488), (37, 6497), (72, 6758), (96, 6920), (104, 6971), (121, 7088), (160, 7313), (173, 7385), (188, 7445), (206, 7541), (212, 7586), (217, 7604),

Gene: Salz_10 Start: 6224, Stop: 7624, Start Num: 5
Candidate Starts for Salz_10:
(1, 6185), (Start: 5 @6224 has 66 MA's), (17, 6365), (18, 6371), (21, 6389), (29, 6509), (34, 6560), (37, 6581), (41, 6614), (53, 6761), (63, 6824), (67, 6830), (92, 6974), (103, 7055), (112, 7082), (139, 7286), (146, 7307), (151, 7331), (159, 7391), (164, 7424), (172, 7490), (191, 7586),

Gene: Saskia_9 Start: 6227, Stop: 7627, Start Num: 5
Candidate Starts for Saskia_9:
(1, 6188), (Start: 5 @6227 has 66 MA's), (10, 6296), (18, 6374), (21, 6392), (29, 6512), (34, 6563), (37, 6584), (41, 6617), (53, 6764), (63, 6827), (92, 6977), (103, 7058), (112, 7085), (139, 7289), (146, 7310), (151, 7334), (159, 7394), (164, 7427), (172, 7493), (191, 7589),

Gene: Scherzo_11 Start: 6179, Stop: 7759, Start Num: 5
Candidate Starts for Scherzo_11:
(Start: 5 @6179 has 66 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (34, 6509), (35, 6521), (37, 6530), (72, 6791), (96, 6953), (104, 7004), (121, 7121), (160, 7346), (173, 7418), (188, 7478), (206, 7574), (212, 7619), (217, 7637),

Gene: SemperFi_11 Start: 5122, Stop: 6369, Start Num: 4
Candidate Starts for SemperFi_11:
(Start: 4 @5122 has 69 MA's), (7, 5134), (8, 5167), (15, 5254), (20, 5278), (25, 5371), (30, 5413), (32, 5428), (36, 5473), (37, 5479), (38, 5500), (39, 5503), (61, 5650), (91, 5770), (144, 5989), (153, 6019), (156, 6043), (161, 6067), (180, 6166), (193, 6232), (195, 6238), (209, 6295),

Gene: Serenity_8 Start: 4332, Stop: 5210, Start Num: 4
Candidate Starts for Serenity_8:
(Start: 4 @4332 has 69 MA's), (8, 4377), (13, 4440), (15, 4464), (30, 4623), (36, 4683), (37, 4689), (38, 4710), (40, 4716), (68, 4869), (75, 4893), (109, 5010), (120, 5076), (122, 5079), (126, 5094), (127, 5100), (131, 5115), (142, 5172),

Gene: Sham4_10 Start: 6227, Stop: 7627, Start Num: 5
Candidate Starts for Sham4_10:
(1, 6188), (Start: 5 @6227 has 66 MA's), (17, 6368), (18, 6374), (21, 6392), (29, 6512), (34, 6563), (37, 6584), (41, 6617), (53, 6764), (63, 6827), (67, 6833), (92, 6977), (103, 7058), (112, 7085), (139, 7289), (146, 7310), (151, 7334), (159, 7394), (164, 7427), (172, 7493), (191, 7589),

Gene: SheaKeira_10 Start: 4377, Stop: 5927, Start Num: 5
Candidate Starts for SheaKeira_10:
(Start: 5 @4377 has 66 MA's), (18, 4518), (34, 4707), (37, 4728), (70, 4980), (104, 5202), (124, 5298), (132, 5340), (148, 5439), (173, 5586), (188, 5646), (206, 5742), (216, 5802),

Gene: Sheen_10 Start: 5731, Stop: 7155, Start Num: 4
Candidate Starts for Sheen_10:
(Start: 4 @5731 has 69 MA's), (8, 5776), (15, 5863), (25, 5980), (29, 6019), (30, 6022), (36, 6082), (37, 6088), (38, 6109), (40, 6115), (45, 6163), (57, 6256), (69, 6328), (74, 6346), (80, 6379), (111, 6550), (115, 6589), (147, 6790), (153, 6817), (156, 6838), (161, 6862), (173, 6922), (174, 6925), (180, 6955), (185, 6979), (193, 7021), (194, 7024), (204, 7060), (207, 7066), (220, 7138),

Gene: Sknot_9 Start: 4749, Stop: 6053, Start Num: 4
Candidate Starts for Sknot_9:
(Start: 4 @4749 has 69 MA's), (7, 4761), (8, 4794), (15, 4881), (27, 5013), (30, 5040), (36, 5100), (37, 5106), (38, 5127), (45, 5187), (60, 5286), (61, 5289), (82, 5361), (91, 5409), (144, 5628), (153, 5661), (162, 5715), (168, 5766), (178, 5811), (181, 5829),

Gene: SnapTap_9 Start: 4694, Stop: 5941, Start Num: 4
Candidate Starts for SnapTap_9:
(Start: 4 @4694 has 69 MA's), (7, 4706), (8, 4739), (15, 4826), (20, 4850), (25, 4943), (30, 4985), (32, 5000), (36, 5045), (37, 5051), (38, 5072), (39, 5075), (61, 5222), (91, 5342), (144, 5561), (153, 5591), (156, 5615), (161, 5639), (180, 5738), (193, 5804), (195, 5810), (209, 5867),

Gene: Snape_10 Start: 6230, Stop: 7630, Start Num: 5
Candidate Starts for Snape_10:
(1, 6191), (Start: 5 @6230 has 66 MA's), (17, 6371), (18, 6377), (21, 6395), (29, 6515), (34, 6566), (37, 6587), (41, 6620), (53, 6767), (63, 6830), (67, 6836), (92, 6980), (103, 7061), (112, 7088), (139, 7292), (146, 7313), (151, 7337), (159, 7397), (164, 7430), (172, 7496), (191, 7592),

Gene: SororFago_9 Start: 4555, Stop: 6138, Start Num: 5
Candidate Starts for SororFago_9:
(Start: 5 @4555 has 66 MA's), (18, 4696), (19, 4699), (23, 4768), (34, 4885), (37, 4906), (42, 4957), (81, 5218), (86, 5257), (94, 5317), (96, 5329), (104, 5380), (121, 5497), (141, 5623), (160, 5722), (173, 5794), (179, 5815), (188, 5860), (206, 5956), (212, 6001),

Gene: Spouty_11 Start: 6176, Stop: 7756, Start Num: 5
Candidate Starts for Spouty_11:
(Start: 5 @6176 has 66 MA's), (9, 6227), (18, 6317), (19, 6320), (34, 6506), (37, 6527), (96, 6950), (104, 7001), (121, 7118), (135, 7202), (138, 7226), (145, 7253), (160, 7343), (173, 7415), (188, 7475), (206, 7571), (212, 7616), (217, 7634),

Gene: StarStuff_12 Start: 4697, Stop: 6178, Start Num: 4
Candidate Starts for StarStuff_12:
(Start: 4 @4697 has 69 MA's), (8, 4742), (30, 4988), (36, 5048), (37, 5054), (38, 5075), (44, 5129), (45, 5135), (69, 5303), (80, 5354), (98, 5504), (113, 5585), (143, 5774), (153, 5816), (163, 5879), (180, 5978), (209, 6107),

Gene: Stellammi_35 Start: 25910, Stop: 27592, Start Num: 5
Candidate Starts for Stellammi_35:
(Start: 5 @25910 has 66 MA's), (11, 25994), (18, 26057), (21, 26075), (34, 26246), (37, 26267), (47, 26396), (51, 26444), (54, 26459), (63, 26528), (71, 26555), (73, 26561), (76, 26570), (85, 26633), (87, 26663), (90, 26690), (99, 26738), (104, 26777), (110, 26792), (133, 26954), (134, 26975), (136, 26984), (141, 27023), (154, 27083), (167, 27179), (183, 27260), (187, 27281), (207, 27398), (215, 27452), (218, 27461), (221, 27482), (223, 27509),

Gene: Sunhee_8 Start: 4574, Stop: 6157, Start Num: 5
Candidate Starts for Sunhee_8:
(Start: 5 @4574 has 66 MA's), (18, 4715), (19, 4718), (23, 4787), (34, 4904), (37, 4925), (41, 4958), (42, 4976), (86, 5276), (96, 5348), (104, 5399), (141, 5642), (145, 5651), (173, 5813), (179, 5834), (188, 5876), (206, 5972), (209, 5993), (212, 6017), (223, 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), (30, 4628), (36, 4688), (37, 4694), (38, 4715), (40, 4721), (45, 4769), (69, 4937), (80, 4988), (147, 5417), (157, 5468), (158, 5471), (175, 5531), (176, 5534), (213, 5717),

Gene: SweetiePie_9 Start: 4694, Stop: 5941, Start Num: 4
Candidate Starts for SweetiePie_9:
(Start: 4 @4694 has 69 MA's), (7, 4706), (8, 4739), (15, 4826), (20, 4850), (25, 4943), (30, 4985), (32, 5000), (36, 5045), (37, 5051), (38, 5072), (39, 5075), (61, 5222), (91, 5342), (144, 5561), (153, 5591), (156, 5615), (161, 5639), (180, 5738), (193, 5804), (195, 5810), (209, 5867),

Gene: SwirlSquare_12 Start: 4508, Stop: 5878, Start Num: 4
Candidate Starts for SwirlSquare_12:
(Start: 4 @4508 has 69 MA's), (20, 4664), (30, 4799), (36, 4859), (37, 4865), (38, 4886), (40, 4892), (45, 4940), (72, 5120), (80, 5159), (111, 5321), (119, 5408), (150, 5555), (157, 5600), (158, 5603), (175, 5663), (176, 5666), (213, 5849),

Gene: Taptic_36 Start: 36026, Stop: 37648, Start Num: 5
Candidate Starts for Taptic_36:
(Start: 5 @36026 has 66 MA's), (7, 36032), (10, 36095), (18, 36173), (21, 36191), (22, 36245), (26, 36293), (31, 36344), (34, 36380), (37, 36401), (42, 36455), (48, 36542), (51, 36581), (79, 36719), (84, 36758), (89, 36800), (100, 36863), (114, 36947), (137, 37094), (138, 37100), (160, 37226), (162, 37238), (165, 37268), (171, 37307), (177, 37328), (184, 37361), (186, 37370), (189, 37385), (197, 37433), (208, 37484), (211, 37520), (214, 37535), (222, 37586), (224, 37643),

Gene: Terrific_13 Start: 5203, Stop: 6507, Start Num: 4
Candidate Starts for Terrific_13:
(Start: 4 @5203 has 69 MA's), (8, 5248), (15, 5335), (30, 5494), (36, 5554), (37, 5560), (38, 5581), (45, 5641), (60, 5740), (61, 5743), (82, 5815), (144, 6082), (153, 6115), (162, 6169), (168, 6220), (178, 6265), (181, 6283),

Gene: Timothy_10 Start: 6224, Stop: 7624, Start Num: 5
Candidate Starts for Timothy_10:
(1, 6185), (Start: 5 @6224 has 66 MA's), (18, 6371), (21, 6389), (29, 6509), (34, 6560), (37, 6581), (41, 6614), (53, 6761), (63, 6824), (67, 6830), (92, 6974), (103, 7055), (112, 7082), (139, 7286), (146, 7307), (151, 7331), (159, 7391), (164, 7424), (172, 7490), (191, 7586),

Gene: TinyTimmy_10 Start: 6279, Stop: 7676, Start Num: 6
Candidate Starts for TinyTimmy_10:
(Start: 6 @6279 has 6 MA's), (17, 6417), (18, 6423), (21, 6441), (29, 6561), (34, 6612), (37, 6633), (41, 6666), (53, 6813), (63, 6876), (67, 6882), (92, 7026), (103, 7107), (112, 7134), (139, 7338), (146, 7359), (151, 7383), (159, 7443), (164, 7476), (172, 7542), (191, 7638),

Gene: TipsytheTRex_8 Start: 4285, Stop: 5163, Start Num: 4
Candidate Starts for TipsytheTRex_8:
(Start: 4 @4285 has 69 MA's), (8, 4330), (13, 4393), (15, 4417), (16, 4420), (25, 4534), (30, 4576), (36, 4636), (37, 4642), (40, 4669), (68, 4822), (75, 4846), (109, 4963), (120, 5029), (126, 5047), (127, 5053), (131, 5068), (142, 5125),

Gene: Toaka_9 Start: 4553, Stop: 6103, Start Num: 5
Candidate Starts for Toaka_9:
(Start: 5 @4553 has 66 MA's), (12, 4646), (18, 4694), (34, 4883), (37, 4904), (46, 4994), (66, 5138), (72, 5165), (86, 5255), (101, 5363), (104, 5378), (124, 5474), (148, 5615), (160, 5690), (173, 5762), (180, 5792), (188, 5822), (206, 5918), (217, 5981),

Gene: Tomathan_12 Start: 4697, Stop: 6178, Start Num: 4
Candidate Starts for Tomathan_12:
(Start: 4 @4697 has 69 MA's), (8, 4742), (30, 4988), (36, 5048), (37, 5054), (38, 5075), (44, 5129), (45, 5135), (69, 5303), (80, 5354), (98, 5504), (113, 5585), (143, 5774), (153, 5816), (163, 5879), (180, 5978), (209, 6107),

Gene: Toro_11 Start: 5649, Stop: 7097, Start Num: 4
Candidate Starts for Toro_11:
(Start: 4 @5649 has 69 MA's), (8, 5694), (15, 5781), (25, 5898), (29, 5937), (30, 5940), (36, 6000), (37, 6006), (38, 6027), (40, 6033), (45, 6081), (57, 6174), (69, 6246), (80, 6297), (98, 6447), (111, 6507), (113, 6528), (125, 6618), (129, 6645), (147, 6732), (153, 6759), (156, 6780), (161, 6804), (173, 6864), (174, 6867), (180, 6897), (185, 6921), (193, 6963), (194, 6966), (204, 7002), (207, 7008), (220, 7080),

Gene: Travvers_12 Start: 4697, Stop: 6178, Start Num: 4
Candidate Starts for Travvers_12:
(Start: 4 @4697 has 69 MA's), (8, 4742), (30, 4988), (36, 5048), (37, 5054), (38, 5075), (44, 5129), (45, 5135), (69, 5303), (80, 5354), (98, 5504), (113, 5585), (143, 5774), (153, 5816), (163, 5879), (180, 5978), (209, 6107),

Gene: Trixie_12 Start: 6376, Stop: 7671, Start Num: 4
Candidate Starts for Trixie_12:
(Start: 4 @6376 has 69 MA's), (7, 6388), (8, 6421), (15, 6508), (20, 6532), (25, 6625), (30, 6667), (32, 6682), (36, 6727), (37, 6733), (38, 6754), (40, 6760), (91, 7033), (144, 7252), (153, 7279), (161, 7324), (168, 7384), (192, 7510), (209, 7600), (210, 7612),

Gene: Tubs_11 Start: 6146, Stop: 7726, Start Num: 5
Candidate Starts for Tubs_11:
(Start: 5 @6146 has 66 MA's), (9, 6197), (18, 6287), (19, 6290), (34, 6476), (37, 6497), (72, 6758), (96, 6920), (104, 6971), (121, 7088), (160, 7313), (173, 7385), (188, 7445), (206, 7541), (212, 7586), (217, 7604),

Gene: Ugenie5_8 Start: 6179, Stop: 7759, Start Num: 5
Candidate Starts for Ugenie5_8:
(Start: 5 @6179 has 66 MA's), (9, 6230), (18, 6320), (19, 6323), (21, 6338), (34, 6509), (35, 6521), (37, 6530), (72, 6791), (96, 6953), (104, 7004), (121, 7121), (160, 7346), (173, 7418), (188, 7478), (206, 7574), (212, 7619), (217, 7637),

Gene: Updawg_11 Start: 5191, Stop: 6495, Start Num: 4
Candidate Starts for Updawg_11:
(Start: 4 @5191 has 69 MA's), (8, 5236), (15, 5323), (30, 5482), (36, 5542), (37, 5548), (38, 5569), (39, 5572), (45, 5629), (60, 5728), (61, 5731), (82, 5803), (91, 5851), (144, 6070), (153, 6103), (162, 6157), (168, 6208), (178, 6253), (181, 6271), (201, 6388),

Gene: VA6_9 Start: 4672, Stop: 5973, Start Num: 4
Candidate Starts for VA6_9:
(Start: 4 @4672 has 69 MA's), (8, 4717), (15, 4804), (20, 4828), (25, 4921), (30, 4963), (32, 4978), (36, 5023), (37, 5029), (38, 5050), (40, 5056), (61, 5212), (82, 5284), (91, 5332), (123, 5455), (144, 5551), (153, 5584), (168, 5689), (175, 5725), (192, 5815), (210, 5917),

Gene: VC3_12 Start: 4696, Stop: 6177, Start Num: 4
Candidate Starts for VC3_12:

(Start: 4 @4696 has 69 MA's), (8, 4741), (14, 4825), (30, 4987), (36, 5047), (37, 5053), (38, 5074), (44, 5128), (45, 5134), (69, 5302), (80, 5353), (98, 5503), (113, 5584), (153, 5815), (163, 5878), (180, 5977), (209, 6106),

Gene: Vanisoa_9 Start: 4264, Stop: 5814, Start Num: 5
Candidate Starts for Vanisoa_9:
(Start: 5 @4264 has 66 MA's), (18, 4405), (19, 4408), (21, 4423), (34, 4594), (37, 4615), (40, 4645), (63, 4846), (72, 4876), (86, 4966), (101, 5074), (104, 5089), (124, 5185), (132, 5227), (148, 5326), (173, 5473), (180, 5503), (188, 5533), (206, 5629), (216, 5689),

Gene: WeiHuaDA_15 Start: 6986, Stop: 8281, Start Num: 4
Candidate Starts for WeiHuaDA_15:
(Start: 4 @6986 has 69 MA's), (7, 6998), (8, 7031), (15, 7118), (20, 7142), (25, 7235), (30, 7277), (36, 7337), (37, 7343), (38, 7364), (40, 7370), (49, 7454), (58, 7511), (91, 7643), (144, 7862), (153, 7889), (161, 7934), (166, 7976), (168, 7994), (178, 8039), (192, 8120), (206, 8192), (210, 8222),

Gene: WideWale_11 Start: 5191, Stop: 6495, Start Num: 4
Candidate Starts for WideWale_11:
(Start: 4 @5191 has 69 MA's), (8, 5236), (15, 5323), (30, 5482), (36, 5542), (37, 5548), (38, 5569), (39, 5572), (45, 5629), (60, 5728), (61, 5731), (82, 5803), (91, 5851), (144, 6070), (153, 6103), (162, 6157), (168, 6208), (178, 6253), (181, 6271), (201, 6388),

Gene: Wolpertinger_9 Start: 6227, Stop: 7627, Start Num: 5
Candidate Starts for Wolpertinger_9:
(1, 6188), (Start: 5 @6227 has 66 MA's), (17, 6368), (18, 6374), (21, 6392), (29, 6512), (34, 6563), (37, 6584), (41, 6617), (53, 6764), (63, 6827), (67, 6833), (92, 6977), (103, 7058), (112, 7085), (139, 7289), (146, 7310), (151, 7334), (159, 7394), (164, 7427), (172, 7493), (191, 7589),

Gene: WorldCup_8 Start: 4273, Stop: 5823, Start Num: 5
Candidate Starts for WorldCup_8:
(Start: 5 @4273 has 66 MA's), (12, 4366), (18, 4414), (21, 4432), (24, 4495), (34, 4603), (37, 4624), (46, 4714), (63, 4855), (72, 4885), (86, 4975), (104, 5098), (132, 5236), (148, 5335), (173, 5482), (180, 5512), (188, 5542), (206, 5638),

Gene: Yecey3_10 Start: 4341, Stop: 5915, Start Num: 5
Candidate Starts for Yecey3_10:
(Start: 5 @4341 has 66 MA's), (12, 4434), (18, 4482), (19, 4485), (22, 4554), (34, 4689), (37, 4710), (42, 4761), (72, 4971), (91, 5103), (96, 5133), (104, 5184), (132, 5322), (145, 5406), (148, 5421), (173, 5568), (188, 5634), (206, 5730), (209, 5751), (222, 5838),