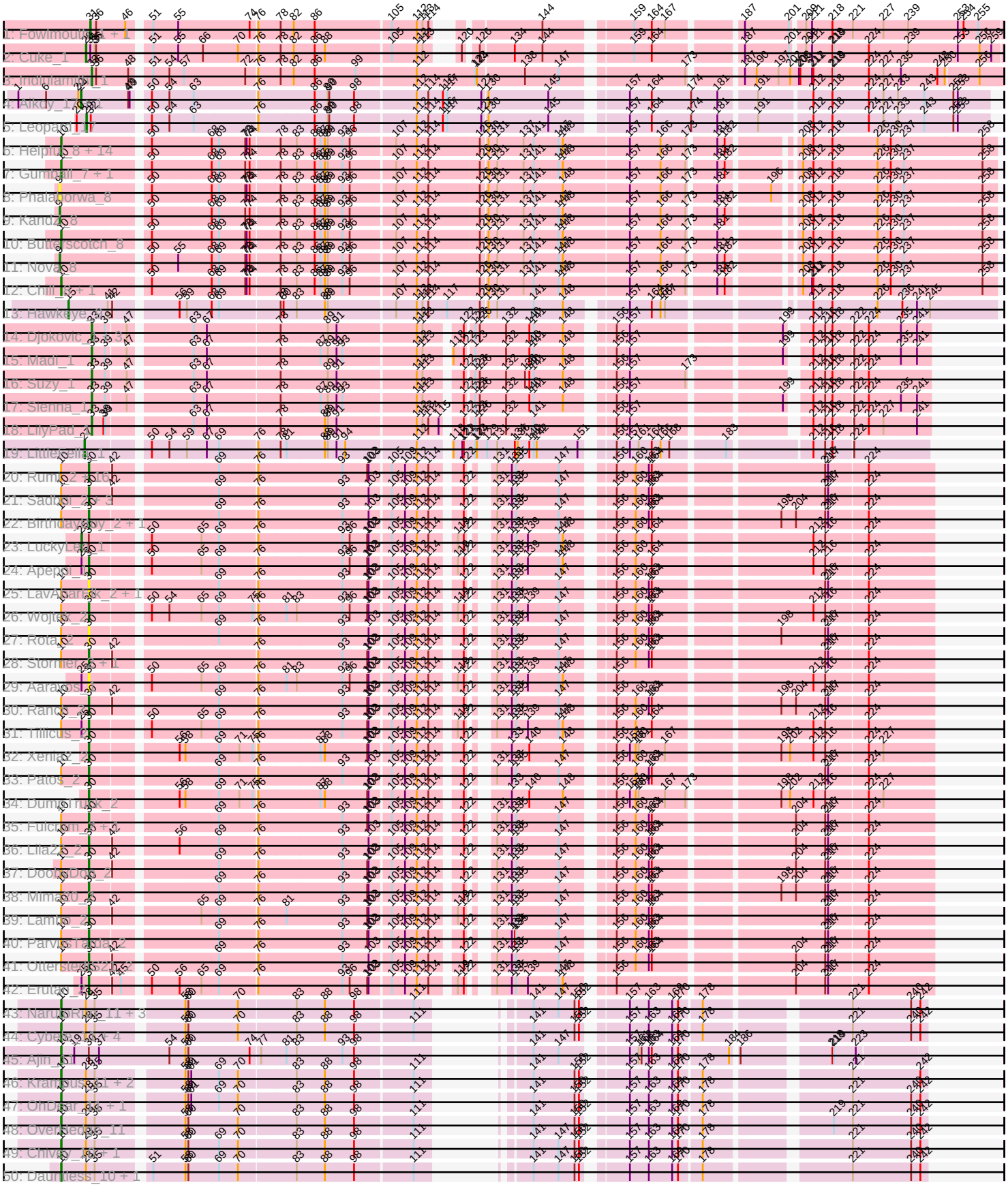
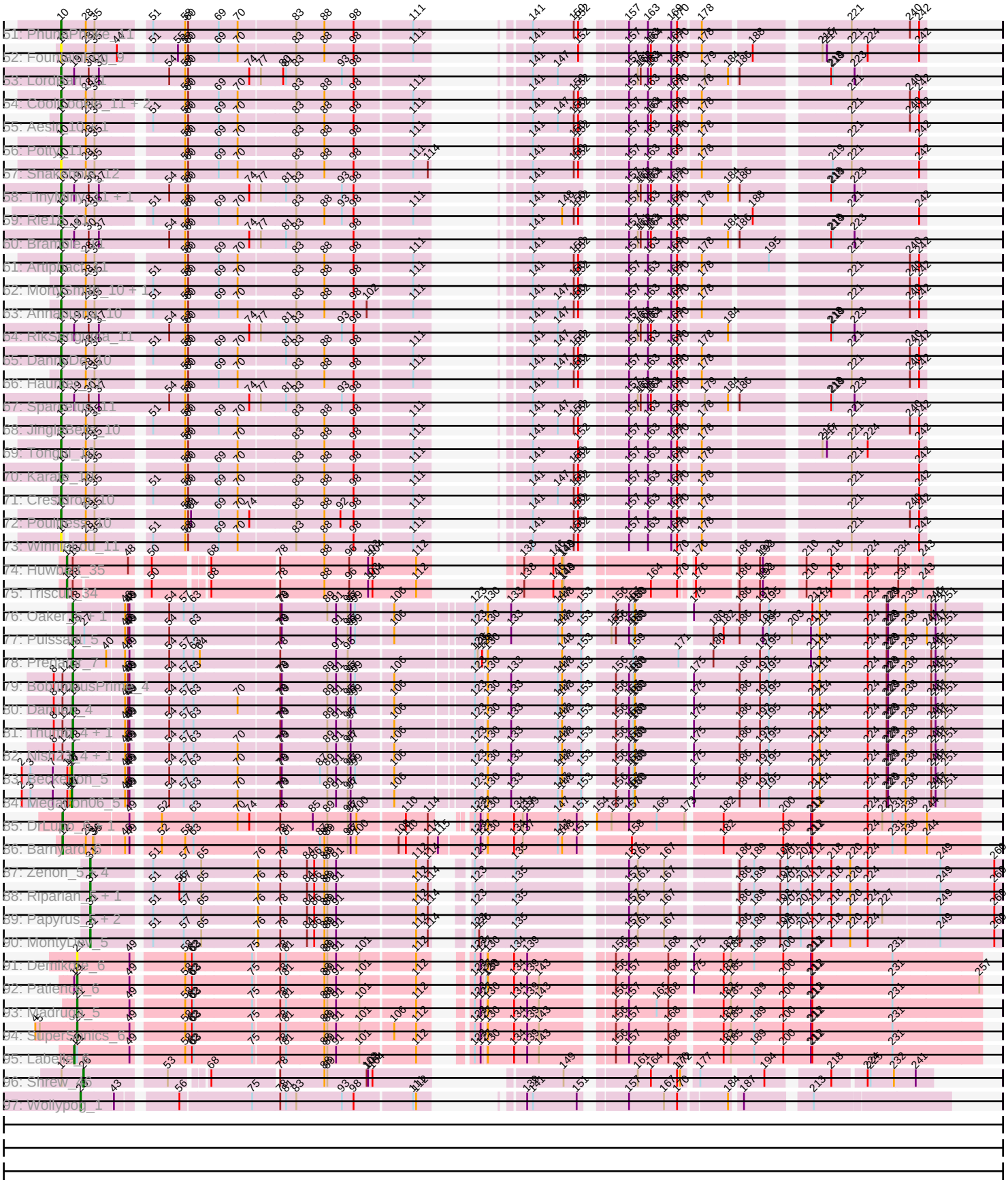
Pham 343689



Pham 343689



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 343689 Report

This analysis was run 11/14/26 on database version 672.

Pham number 343689 has 169 members, 15 are drafts.

Phages represented in each track:
• Track 1 : Fowlmouth_1, MrMiyagi_1
• Track 2 : Cuke_1
• Track 3 : Indlulamithi_1
• Track 4 : Aikoy_17, Onyinye_18
• Track 5 : Leopard_17
• Track 6 : Helpful_8, Delton_8, SirHarley_7, SuperheroCarly_8, Penelope2018_8, Visconti_8, Mopey_8, BigMama_7, Thoth_8, Adjutor_8, Erk16_8, PBI1_8, Troll4_8, Giuseppe_8, Prager_8
• Track 7 : Gumball_7, PLot_8
• Track 8 : Phalaborwa_8
• Track 9 : KandZ_8
• Track 10 : Butterscotch_8
• Track 11 : Nova_8
• Track 12 : Chill_8, WaldoWhy_8
• Track 13 : Hawkeye_9
• Track 14 : Djokovic_1, BiteSize_1, Terapin_1, Beyoncage_1
• Track 15 : Madi_1
• Track 16 : Suzy_1
• Track 17 : Sienna_1
• Track 18 : LilyPad_1
• Track 19 : LittleFella_1
• Track 20 : Rumi_2, Zany_2, Riduram_2, Jalebi_2, DaviePasture_2, Genamy16_2, Rukungu_2, NovaSharks_2, Jamemuya19_2, Pywacket_2, Alephilan_2, Sampudon_2, Avian_2, Alyssamiracle_2, MoiGyank_2, Charminar_2, RazorC_2
• Track 21 : Sadboi_2, Yikes_2, Gibbin_2, GretelLyn_2
• Track 22 : BirthdayBoy_2, NorManre_2
• Track 23 : LuckyLeo_1
• Track 24 : Apeppi_1
• Track 25 : LavAbarElk_2, Nettle_2
• Track 26 : Wojtek_2
• Track 27 : Rota_2
• Track 28 : Stormer_2, Astralis_2
• Track 29 : Aaravos_1
• Track 30 : Ranch_2
• Track 31 : Tillicus_2
• Track 32 : Xenia2_2
• Track 33 : Patos_2

• Track 34 : DumpTruck_2
• Track 35 : Fulcrum_2, GOATification_2
• Track 36 : Lila22_2
• Track 37 : DoobyDoo_2
• Track 38 : Mima20_2
• Track 39 : Lambo_2
• Track 40 : ParvusTarda_2
• Track 41 : OtterstedtS21_2
• Track 42 : Erutan_2
• Track 43 : NarutoRun_11, Tedro_11, Anakin_11, Tiggy93_11
• Track 44 : Cybele_11, SafetyGuy_11, Rachella_11, Kate_11, Neptune_11
• Track 45 : Ajin_11
• Track 46 : Krampus_11, FreddieHg_10, Hager_11
• Track 47 : OhDear_11, AnnaSerena_11
• Track 48 : OverHedge_11
• Track 49 : Chivey_10, Hiddenleaf_10
• Track 50 : Dauntless_10, Erudite_10
• Track 51 : PhunaPhoke_11
• Track 52 : FountainFog_9
• Track 53 : LordBart_11
• Track 54 : CoolCookie_11, Pharpay_11, Gilda_11
• Track 55 : Aesir_10, JDawG_11
• Track 56 : Potty_11
• Track 57 : Snakehole_12
• Track 58 : TinyMiny_11, Kors_11
• Track 59 : Rie18_11
• Track 60 : Bramble_11
• Track 61 : Artiphact_11
• Track 62 : MortySmith_10, SilentWarrior_10
• Track 63 : Annapurna_10
• Track 64 : RikSengupta_11
• Track 65 : DannyDe_10
• Track 66 : Haunter_11
• Track 67 : Sparcetus_11
• Track 68 : JingleBells_10
• Track 69 : Tongui_10
• Track 70 : Karate_10
• Track 71 : Crestdrop_10
• Track 72 : Poultress_10
• Track 73 : WinnieLou_11
• Track 74 : Huwbert_35
• Track 75 : Triscuit_34
• Track 76 : Oaker_5, Konstantine_5
• Track 77 : Puissant_5
• Track 78 : Predator_7
• Track 79 : BobtimousPrime_4
• Track 80 : Damien_4
• Track 81 : Thumb_4, Phreeze_4
• Track 82 : Nish23_4, Cborch11_4
• Track 83 : Beckerton_5
• Track 84 : Megatron06_5
• Track 85 : DrLupo_6, AmandaPanda_6
• Track 86 : Barnyard_6

• Track 87 : Zenon_5, Nilo_5, Gimesa_5, Candle_4, Weiss13_5
• Track 88 : Riparian_5, Send513_4
• Track 89 : Papyrus_5, Rope_5, Yelo_4
• Track 90 : MontyDev_5
• Track 91 : Demikore_6
• Track 92 : Patience_6
• Track 93 : Madruga_5
• Track 94 : SuperSonics_6
• Track 95 : Labelle_6
• Track 96 : Shrew_46
• Track 97 : Wollypog_1

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

The start number called the most often in the published annotations is 10, it was called in 64 of the 154 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adjutor_8, Aesir_10, Ajin_11, Anakin_11, AnnaSerena_11, Annapurna_10, Artiphact_11, BigMama_7, Bramble_11, Butterscotch_8, Chill_8, Chivey_10, CoolCookie_11, Crestdrop_10, Cybele_11, DannyDe_10, Dauntless_10, Delton_8, Erk16_8, Erudite_10, FountainFog_9, FreddieHg_10, Gilda_11, Giuseppe_8, Gumball_7, Hager_11, Haunter_11, Helpful_8, Hiddenleaf_10, JDawG_11, JingleBells_10, Karate_10, Kate_11, Kors_11, Krampus_11, LordBart_11, Mopey_8, MortySmith_10, NarutoRun_11, Neptune_11, OhDear_11, OverHedge_11, PBI1_8, PLot_8, Penelope2018_8, Pharpay_11, PhunaPhoke_11, Potty_11, Poultress_10, Prager_8, Rachella_11, Rie18_11, RikSengupta_11, SafetyGuy_11, SilentWarrior_10, SirHarley_7, Snakehole_12, Sparcetus_11, SuperheroCarly_8, Tedro_11, Thoth_8, Tiggy93_11, TinyMiny_11, Tongui_10, Troll4_8, Visconti_8, WaldoWhy_8, WinnieLou_11,

Genes that have the "Most Annotated" start but do not call it:
• Alephilan_2, Alyssamiracle_2, Astralis_2, Avian_2, BirthdayBoy_2, Charminar_2, DaviePasture_2, DoobyDoo_2, Fulcrum_2, GOATification_2, Genamy16_2, Gibbin_2, GretelLyn_2, Jalebi_2, Jamemuya19_2, Lambo_2, LavAbarElk_2, Lila22_2, Mima20_2, MoiGyank_2, Nettle_2, NorManre_2, NovaSharks_2, OtterstedtS21_2, ParvusTarda_2, Patos_2, Pywacket_2, Ranch_2, RazorC_2, Riduram_2, Rota_2, Rukungu_2, Rumi_2, Sadboi_2, Sampudon_2, Stormer_2, Tillicus_2, Wojtek_2, Yikes_2, Zany_2,

Genes that do not have the "Most Annotated" start:
• Aaravos_1, Aikoy_17, AmandaPanda_6, Apeppi_1, Barnyard_6, Beckerton_5, Beyoncage_1, BiteSize_1, BobtimousPrime_4, Candle_4, Cborch11_4, Cuke_1, Damien_4, Demikore_6, Djokovic_1, DrLupo_6, DumpTruck_2, Erutan_2, Fowlmouth_1, Gimesa_5, Hawkeye_9, Huwbert_35, Indlulamithi_1, KandZ_8, Konstantine_5, Labelle_6, Leopard_17, LilyPad_1, LittleFella_1, LuckyLeo_1, Madi_1, Madruga_5, Megatron06_5, MontyDev_5, MrMiyagi_1, Nilo_5, Nish23_4, Nova_8, Oaker_5, Onyinye_18, Papyrus_5, Patience_6, Phalaborwa_8, Phreeze_4, Predator_7, Puissant_5, Riparian_5, Rope_5, Send513_4, Shrew_46, Sienna_1, SuperSonics_6, Suzy_1, Terapin_1, Thumb_4, Triscuit_34, Weiss13_5, Wollypog_1,

Xenia2_2, Yelo_4, Zenon_5,

Summary by start number:

Start 9:
• Found in 3 of 169 (1.8%) of genes in pham
• Manual Annotations of this start: 2 of 154
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KandZ_8 (D1), Nova_8 (D1), Phalaborwa_8 (D1),

Start 10:
• Found in 108 of 169 (63.9%) of genes in pham
• Manual Annotations of this start: 64 of 154
• Called 63.0% of time when present
• Phage (with cluster) where this start called: Adjutor_8 (D1), Aesir_10 (EF), Ajin_11 (EF), Anakin_11 (EF), AnnaSerena_11 (EF), Annapurna_10 (EF), Artiphact_11 (EF), BigMama_7 (D1), Bramble_11 (EF), Butterscotch_8 (D1), Chill_8 (D1), Chivey_10 (EF), CoolCookie_11 (EF), Crestdrop_10 (EF), Cybele_11 (EF), DannyDe_10 (EF), Dauntless_10 (EF), Delton_8 (D1), Erk16_8 (D1), Erudite_10 (EF), FountainFog_9 (EF), FreddieHg_10 (EF), Gilda_11 (EF), Giuseppe_8 (D1), Gumball_7 (D1), Hager_11 (EF), Haunter_11 (EF), Helpful_8 (D1), Hiddenleaf_10 (EF), JDawG_11 (EF), JingleBells_10 (EF), Karate_10 (EF), Kate_11 (EF), Kors_11 (EF), Krampus_11 (EF), LordBart_11 (EF), Mopey_8 (D1), MortySmith_10 (EF), NarutoRun_11 (EF), Neptune_11 (EF), OhDear_11 (EF), OverHedge_11 (EF), PBI1_8 (D1), PLot_8 (D1), Penelope2018_8 (D1), Pharpay_11 (EF), PhunaPhoke_11 (EF), Potty_11 (EF), Poultress_10 (EF), Prager_8 (D1), Rachella_11 (EF), Rie18_11 (EF), RikSengupta_11 (EF), SafetyGuy_11 (EF), SilentWarrior_10 (EF), SirHarley_7 (D1), Snakehole_12 (EF), Sparcetus_11 (EF), SuperheroCarly_8 (D1), Tedro_11 (EF), Thoth_8 (D1), Tiggy93_11 (EF), TinyMiny_11 (EF), Tongui_10 (EF), Troll4_8 (D1), Visconti_8 (D1), WaldoWhy_8 (D1), WinnieLou_11 (EF),

Start 12:
• Found in 9 of 169 (5.3%) of genes in pham
• Manual Annotations of this start: 2 of 154
• Called 33.3% of time when present
• Phage (with cluster) where this start called: AmandaPanda_6 (H2), Barnyard_6 (H2), DrLupo_6 (H2),

Start 13:
• Found in 2 of 169 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 154
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Huwbert_35 (GG), Triscuit_34 (GG),

Start 15:
• Found in 1 of 169 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 154
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hawkeye_9 (D2),

Start 17:
• Found in 2 of 169 (1.2%) of genes in pham

• Manual Annotations of this start: 2 of 154
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beckerton_5 (H1), Megatron06_5 (H1),

Start 18:
• Found in 12 of 169 (7.1%) of genes in pham
• Manual Annotations of this start: 9 of 154
• Called 83.3% of time when present
• Phage (with cluster) where this start called: BobtimousPrime_4 (H1), Cborch11_4 (H1), Damien_4 (H1), Konstantine_5 (H1), Nish23_4 (H1), Oaker_5 (H1), Phreeze_4 (H1), Predator_7 (H1), Puissant_5 (H1), Thumb_4 (H1),

Start 19:
• Found in 9 of 169 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 154
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Labelle_6 (U),

Start 21:
• Found in 5 of 169 (3.0%) of genes in pham
• Manual Annotations of this start: 3 of 154
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Demikore_6 (U), Madruga_5 (U), Patience_6 (U), SuperSonics_6 (U),

Start 23:
• Found in 1 of 169 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 154
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wollypog_1 (singleton),

Start 24:
• Found in 2 of 169 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 154
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikoy_17 (AE), Onyinye_18 (AE),

Start 25:
• Found in 5 of 169 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 154
• Called 20.0% of time when present
• Phage (with cluster) where this start called: LuckyLeo_1 (DV),

Start 26:
• Found in 1 of 169 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 154
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shrew_46 (singleton),

Start 27:
• Found in 2 of 169 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 154
• Called 50.0% of time when present

• Phage (with cluster) where this start called: LittleFella_1 (DG2),

Start 28:
• Found in 43 of 169 (25.4%) of genes in pham
• Manual Annotations of this start: 1 of 154
• Called 2.3% of time when present
• Phage (with cluster) where this start called: Cuke_1 (AC),

Start 29:
• Found in 1 of 169 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 154
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Leopard_17 (AE),

Start 30:
• Found in 53 of 169 (31.4%) of genes in pham
• Manual Annotations of this start: 39 of 154
• Called 84.9% of time when present
• Phage (with cluster) where this start called: Aaravos_1 (DV), Alephilan_2 (DV), Alyssamiracle_2 (DV), Apeppi_1 (DV), Astralis_2 (DV), Avian_2 (DV), BirthdayBoy_2 (DV), Charminar_2 (DV), DaviePasture_2 (DV), DoobyDoo_2 (DV), DumpTruck_2 (DV), Erutan_2 (DV), Fulcrum_2 (DV), GOATification_2 (DV), Genamy16_2 (DV), Gibbin_2 (DV), GretelLyn_2 (DV), Jalebi_2 (DV), Jamemuya19_2 (DV), Lambo_2 (DV), LavAbarElk_2 (DV), Lila22_2 (DV), Mima20_2 (DV), MoiGyank_2 (DV), Nettle_2 (DV), NorManre_2 (DV), NovaSharks_2 (DV), OtterstedtS21_2 (DV), ParvusTarda_2 (DV), Patos_2 (DV), Pywacket_2 (DV), Ranch_2 (DV), RazorC_2 (DV), Riduram_2 (DV), Rota_2 (DV), Rukungu_2 (DV), Rumi_2 (DV), Sadboi_2 (DV), Sampudon_2 (DV), Stormer_2 (DV), Tillicus_2 (DV), Wojtek_2 (DV), Xenia2_2 (DV), Yikes_2 (DV), Zany_2 (DV),

Start 31:
• Found in 14 of 169 (8.3%) of genes in pham
• Manual Annotations of this start: 12 of 154
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Candle_4 (R), Fowlmouth_1 (AC), Gimesa_5 (R), MontyDev_5 (R), MrMiyagi_1 (AC), Nilo_5 (R), Papyrus_5 (R), Riparian_5 (R), Rope_5 (R), Send513_4 (R), Weiss13_5 (R), Yelo_4 (R), Zenon_5 (R),

Start 33:
• Found in 9 of 169 (5.3%) of genes in pham
• Manual Annotations of this start: 9 of 154
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beyoncage_1 (DG1), BiteSize_1 (DG1), Djokovic_1 (DG1), Indlulamithi_1 (AC), LilyPad_1 (DG1), Madi_1 (DG1), Sienna_1 (DG1), Suzy_1 (DG1), Terapin_1 (DG1),

Summary by clusters:

There are 14 clusters represented in this pham: DG2, AC, H1, AE, H2, EF, singleton, GG, R, U, DV, DG1, D2, D1,

Info for manual annotations of cluster AC:

•Start number 28 was manually annotated 1 time for cluster AC.
•Start number 31 was manually annotated 2 times for cluster AC.
•Start number 33 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:
•Start number 24 was manually annotated 2 times for cluster AE.
•Start number 29 was manually annotated 1 time for cluster AE.

Info for manual annotations of cluster D1:
•Start number 9 was manually annotated 2 times for cluster D1.
•Start number 10 was manually annotated 20 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 15 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DG1:
•Start number 33 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:
•Start number 27 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DV:
•Start number 25 was manually annotated 1 time for cluster DV.
•Start number 30 was manually annotated 39 times for cluster DV.

Info for manual annotations of cluster EF:
•Start number 10 was manually annotated 44 times for cluster EF.

Info for manual annotations of cluster GG:
•Start number 13 was manually annotated 2 times for cluster GG.

Info for manual annotations of cluster H1:
•Start number 17 was manually annotated 2 times for cluster H1.
•Start number 18 was manually annotated 9 times for cluster H1.

Info for manual annotations of cluster H2:
•Start number 12 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster R:
•Start number 31 was manually annotated 10 times for cluster R.

Info for manual annotations of cluster U:
•Start number 19 was manually annotated 1 time for cluster U.
•Start number 21 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Aaravos_1 Start: 48, Stop: 1556, Start Num: 30
Candidate Starts for Aaravos_1:
(Start: 25 @33 has 1 MA's), (Start: 30 @48 has 39 MA's), (50, 147), (65, 243), (69, 276), (76, 351), (81, 405), (83, 426), (93, 519), (96, 534), (102, 570), (103, 573), (105, 612), (109, 639), (112, 663), (114,

687), (119, 726), (122, 738), (131, 762), (133, 789), (135, 798), (139, 822), (147, 885), (148, 894), (156, 969), (212, 1335), (216, 1356), (224, 1434),

Gene: Adjutor_8 Start: 4540, Stop: 6306, Start Num: 10
Candidate Starts for Adjutor_8:
(Start: 10 @4540 has 64 MA's), (50, 4699), (68, 4813), (69, 4828), (72, 4882), (73, 4885), (74, 4891), (78, 4945), (83, 4978), (86, 5014), (87, 5026), (88, 5035), (89, 5041), (93, 5071), (96, 5086), (107, 5173), (112, 5215), (114, 5239), (126, 5338), (130, 5350), (131, 5368), (137, 5419), (141, 5440), (147, 5491), (148, 5500), (157, 5632), (166, 5692), (173, 5740), (181, 5791), (182, 5806), (208, 5926), (212, 5947), (218, 5983), (226, 6070), (230, 6097), (237, 6124), (258, 6277),

Gene: Aesir_10 Start: 2925, Stop: 4385, Start Num: 10
Candidate Starts for Aesir_10:
(Start: 10 @2925 has 64 MA's), (Start: 28 @2976 has 1 MA's), (35, 2994), (51, 3084), (58, 3147), (60, 3153), (69, 3216), (70, 3255), (83, 3366), (88, 3423), (98, 3483), (111, 3597), (141, 3678), (147, 3729), (150, 3762), (152, 3771), (157, 3840), (163, 3876), (164, 3882), (169, 3924), (170, 3936), (178, 3978), (221, 4236), (240, 4356), (242, 4371),

Gene: Aikoy_17 Start: 9842, Stop: 11560, Start Num: 24
Candidate Starts for Aikoy_17:
(1, 9713), (6, 9770), (22, 9836), (Start: 24 @9842 has 2 MA's), (48, 9935), (49, 9938), (50, 9962), (54, 9998), (63, 10043), (76, 10166), (86, 10277), (89, 10304), (90, 10307), (98, 10358), (112, 10478), (114, 10502), (116, 10532), (117, 10541), (127, 10604), (130, 10613), (145, 10733), (157, 10865), (164, 10907), (174, 10988), (181, 11042), (191, 11111), (212, 11213), (218, 11249), (224, 11318), (227, 11348), (233, 11378), (243, 11426), (252, 11486), (253, 11495),

Gene: Ajin_11 Start: 2960, Stop: 4441, Start Num: 10
Candidate Starts for Ajin_11:
(Start: 10 @2960 has 64 MA's), (Start: 19 @2987 has 1 MA's), (Start: 30 @3017 has 39 MA's), (37, 3035), (54, 3179), (58, 3209), (60, 3215), (74, 3341), (77, 3359), (81, 3407), (83, 3428), (93, 3521), (98, 3545), (141, 3740), (147, 3791), (157, 3902), (161, 3920), (162, 3926), (163, 3938), (164, 3944), (169, 3986), (170, 3998), (184, 4094), (186, 4103), (218, 4259), (219, 4262), (223, 4304),

Gene: Alephilan_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Alephilan_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Alyssamiracle_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Alyssamiracle_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: AmandaPanda_6 Start: 2630, Stop: 4312, Start Num: 12
Candidate Starts for AmandaPanda_6:
(Start: 12 @2630 has 2 MA's), (49, 2756), (52, 2801), (63, 2861), (70, 2948), (74, 2972), (78, 3026), (85, 3092), (89, 3122), (95, 3164), (97, 3170), (100, 3182), (110, 3275), (114, 3320), (123, 3350), (127, 3362), (130, 3371), (134, 3422), (137, 3440), (139, 3449), (147, 3512), (151, 3551), (154, 3563), (155, 3593), (157, 3629), (165, 3683), (173, 3740), (182, 3803), (200, 3926), (211, 3983), (212, 3986), (224,

4094), (227, 4124), (231, 4145), (238, 4169), (244, 4205),

Gene: Anakin_11 Start: 3139, Stop: 4599, Start Num: 10
Candidate Starts for Anakin_11:
(Start: 10 @3139 has 64 MA's), (Start: 28 @3190 has 1 MA's), (35, 3208), (58, 3361), (60, 3367), (70, 3469), (83, 3580), (88, 3637), (98, 3697), (111, 3811), (141, 3892), (147, 3943), (150, 3976), (152, 3985), (157, 4054), (163, 4090), (169, 4138), (170, 4150), (178, 4192), (221, 4450), (240, 4570), (242, 4585),

Gene: AnnaSerena_11 Start: 3136, Stop: 4596, Start Num: 10
Candidate Starts for AnnaSerena_11:
(Start: 10 @3136 has 64 MA's), (Start: 28 @3187 has 1 MA's), (35, 3205), (58, 3358), (60, 3364), (61, 3370), (69, 3427), (70, 3466), (83, 3577), (88, 3634), (98, 3694), (111, 3808), (141, 3889), (150, 3973), (152, 3982), (157, 4051), (163, 4087), (169, 4135), (170, 4147), (178, 4189), (221, 4447), (240, 4567), (242, 4582),

Gene: Annapurna_10 Start: 2869, Stop: 4329, Start Num: 10
Candidate Starts for Annapurna_10:
(Start: 10 @2869 has 64 MA's), (Start: 28 @2920 has 1 MA's), (35, 2938), (51, 3028), (58, 3091), (60, 3097), (69, 3160), (70, 3199), (83, 3310), (88, 3367), (98, 3427), (102, 3454), (111, 3541), (141, 3622), (147, 3673), (150, 3706), (152, 3715), (157, 3784), (163, 3820), (169, 3868), (170, 3880), (178, 3922), (221, 4180), (240, 4300), (242, 4315),

Gene: Apeppi_1 Start: 48, Stop: 1556, Start Num: 30
Candidate Starts for Apeppi_1:
(Start: 25 @33 has 1 MA's), (Start: 30 @48 has 39 MA's), (50, 147), (65, 243), (69, 276), (76, 351), (93, 519), (96, 534), (102, 570), (103, 573), (105, 612), (109, 639), (112, 663), (114, 687), (119, 726), (122, 738), (131, 762), (133, 789), (135, 798), (139, 822), (147, 885), (148, 894), (156, 969), (160, 1008), (164, 1038), (212, 1335), (216, 1356), (224, 1434),

Gene: Artiphact_11 Start: 3128, Stop: 4588, Start Num: 10
Candidate Starts for Artiphact_11:
(Start: 10 @3128 has 64 MA's), (Start: 28 @3179 has 1 MA's), (35, 3197), (58, 3350), (60, 3356), (69, 3419), (70, 3458), (83, 3569), (88, 3626), (98, 3686), (111, 3800), (141, 3881), (150, 3965), (152, 3974), (157, 4043), (163, 4079), (169, 4127), (170, 4139), (178, 4181), (195, 4304), (221, 4439), (240, 4559), (242, 4574),

Gene: Astralis_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Astralis_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Avian_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Avian_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Barnyard_6 Start: 2659, Stop: 4404, Start Num: 12
Candidate Starts for Barnyard_6:

(Start: 12 @2659 has 2 MA's), (Start: 28 @2707 has 1 MA's), (34, 2719), (35, 2722), (46, 2779), (49, 2788), (52, 2833), (58, 2878), (63, 2893), (78, 3058), (81, 3070), (87, 3139), (88, 3148), (89, 3154), (95, 3196), (97, 3202), (100, 3214), (108, 3292), (110, 3307), (114, 3352), (115, 3373), (123, 3442), (127, 3454), (130, 3463), (134, 3514), (137, 3532), (147, 3604), (148, 3613), (151, 3643), (158, 3727), (182, 3895), (200, 4018), (211, 4075), (212, 4078), (224, 4186), (231, 4237), (238, 4261), (244, 4297),

Gene: Beckerton_5 Start: 2668, Stop: 4377, Start Num: 17
Candidate Starts for Beckerton_5:
(2, 2566), (3, 2584), (7, 2629), (14, 2659), (16, 2665), (Start: 17 @2668 has 2 MA's), (46, 2761), (48, 2767), (49, 2770), (54, 2830), (57, 2860), (63, 2878), (70, 2965), (78, 3046), (79, 3049), (87, 3127), (89, 3142), (91, 3160), (95, 3184), (97, 3190), (99, 3199), (106, 3271), (123, 3409), (130, 3430), (133, 3475), (147, 3571), (148, 3580), (153, 3619), (156, 3661), (157, 3688), (159, 3697), (160, 3700), (175, 3802), (186, 3895), (192, 3937), (195, 3955), (212, 4045), (214, 4060), (224, 4156), (228, 4195), (229, 4198), (238, 4231), (246, 4276), (247, 4285), (251, 4303),

Gene: Beyoncage_1 Start: 1, Stop: 1509, Start Num: 33
Candidate Starts for Beyoncage_1:
(Start: 33 @1 has 9 MA's), (39, 28), (47, 67), (63, 178), (67, 202), (78, 343), (89, 439), (91, 457), (112, 613), (113, 625), (122, 688), (123, 703), (126, 712), (132, 766), (140, 814), (141, 823), (148, 883), (156, 958), (157, 985), (199, 1261), (212, 1294), (216, 1315), (218, 1330), (222, 1363), (224, 1393), (235, 1453), (241, 1483),

Gene: BigMama_7 Start: 4616, Stop: 6382, Start Num: 10
Candidate Starts for BigMama_7:
(Start: 10 @4616 has 64 MA's), (50, 4775), (68, 4889), (69, 4904), (72, 4958), (73, 4961), (74, 4967), (78, 5021), (83, 5054), (86, 5090), (87, 5102), (88, 5111), (89, 5117), (93, 5147), (96, 5162), (107, 5249), (112, 5291), (114, 5315), (126, 5414), (130, 5426), (131, 5444), (137, 5495), (141, 5516), (147, 5567), (148, 5576), (157, 5708), (166, 5768), (173, 5816), (181, 5867), (182, 5882), (208, 6002), (212, 6023), (218, 6059), (226, 6146), (230, 6173), (237, 6200), (258, 6353),

Gene: BirthdayBoy_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for BirthdayBoy_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (198, 1428), (204, 1458), (216, 1512), (217, 1518), (224, 1590),

Gene: BiteSize_1 Start: 1, Stop: 1509, Start Num: 33
Candidate Starts for BiteSize_1:
(Start: 33 @1 has 9 MA's), (39, 28), (47, 67), (63, 178), (67, 202), (78, 343), (89, 439), (91, 457), (112, 613), (113, 625), (122, 688), (123, 703), (126, 712), (132, 766), (140, 814), (141, 823), (148, 883), (156, 958), (157, 985), (199, 1261), (212, 1294), (216, 1315), (218, 1330), (222, 1363), (224, 1393), (235, 1453), (241, 1483),

Gene: BobtimousPrime_4 Start: 2133, Stop: 3842, Start Num: 18
Candidate Starts for BobtimousPrime_4:
(8, 2094), (Start: 12 @2112 has 2 MA's), (Start: 18 @2133 has 9 MA's), (46, 2226), (48, 2232), (49, 2235), (54, 2295), (57, 2325), (63, 2343), (78, 2511), (79, 2514), (89, 2607), (91, 2625), (95, 2649), (97, 2655), (99, 2664), (106, 2736), (123, 2874), (130, 2895), (133, 2940), (147, 3036), (148, 3045), (153, 3084), (156, 3126), (157, 3153), (159, 3162), (160, 3165), (175, 3267), (186, 3360), (192, 3402), (195, 3420), (212, 3510), (214, 3525), (224, 3621), (228, 3660), (229, 3663), (238, 3696), (246, 3741), (247, 3750), (251, 3768),

Gene: Bramble_11 Start: 2893, Stop: 4374, Start Num: 10
Candidate Starts for Bramble_11:
(Start: 10 @2893 has 64 MA's), (Start: 19 @2920 has 1 MA's), (Start: 30 @2950 has 39 MA's), (37, 2968), (54, 3112), (58, 3142), (60, 3148), (74, 3274), (77, 3292), (81, 3340), (83, 3361), (98, 3478), (141, 3673), (157, 3835), (161, 3853), (162, 3859), (163, 3871), (164, 3877), (169, 3919), (170, 3931), (184, 4027), (186, 4036), (218, 4192), (219, 4195), (223, 4237),

Gene: Butterscotch_8 Start: 4603, Stop: 6369, Start Num: 10
Candidate Starts for Butterscotch_8:
(Start: 10 @4603 has 64 MA's), (50, 4762), (68, 4876), (69, 4891), (72, 4945), (73, 4948), (74, 4954), (78, 5008), (83, 5041), (86, 5077), (87, 5089), (88, 5098), (89, 5104), (93, 5134), (96, 5149), (107, 5236), (112, 5278), (114, 5302), (126, 5401), (130, 5413), (131, 5431), (137, 5482), (141, 5503), (147, 5554), (148, 5563), (157, 5695), (166, 5755), (173, 5803), (181, 5854), (208, 5989), (212, 6010), (218, 6046), (226, 6133), (230, 6160), (237, 6187), (258, 6340),

Gene: Candle_4 Start: 1624, Stop: 3276, Start Num: 31
Candidate Starts for Candle_4:
(Start: 31 @1624 has 12 MA's), (51, 1732), (57, 1795), (65, 1828), (76, 1936), (78, 1975), (84, 2029), (86, 2044), (88, 2065), (89, 2071), (91, 2089), (112, 2245), (114, 2269), (123, 2299), (135, 2371), (157, 2569), (161, 2587), (167, 2638), (186, 2761), (189, 2791), (198, 2845), (201, 2860), (207, 2887), (212, 2911), (218, 2947), (220, 2980), (224, 3016), (249, 3148), (260, 3259),

Gene: Cborch11_4 Start: 2133, Stop: 3842, Start Num: 18
Candidate Starts for Cborch11_4:
(8, 2094), (Start: 12 @2112 has 2 MA's), (Start: 18 @2133 has 9 MA's), (46, 2226), (48, 2232), (49, 2235), (54, 2295), (57, 2325), (63, 2343), (70, 2430), (78, 2511), (79, 2514), (89, 2607), (91, 2625), (95, 2649), (97, 2655), (106, 2736), (123, 2874), (130, 2895), (133, 2940), (147, 3036), (148, 3045), (153, 3084), (156, 3126), (157, 3153), (159, 3162), (160, 3165), (175, 3267), (186, 3360), (192, 3402), (195, 3420), (212, 3510), (214, 3525), (224, 3621), (228, 3660), (229, 3663), (238, 3696), (246, 3741), (247, 3750), (251, 3768),

Gene: Charminar_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Charminar_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Chill_8 Start: 4606, Stop: 6372, Start Num: 10
Candidate Starts for Chill_8:
(Start: 10 @4606 has 64 MA's), (50, 4765), (68, 4879), (69, 4894), (72, 4948), (73, 4951), (74, 4957), (78, 5011), (83, 5044), (86, 5080), (87, 5092), (88, 5101), (89, 5107), (93, 5137), (96, 5152), (107, 5239), (112, 5281), (114, 5305), (126, 5404), (130, 5416), (131, 5434), (137, 5485), (141, 5506), (147, 5557), (148, 5566), (157, 5698), (166, 5758), (173, 5806), (181, 5857), (182, 5872), (208, 5992), (211, 6010), (212, 6013), (218, 6049), (226, 6136), (230, 6163), (237, 6190), (258, 6343),

Gene: Chivey_10 Start: 2862, Stop: 4322, Start Num: 10
Candidate Starts for Chivey_10:
(Start: 10 @2862 has 64 MA's), (Start: 28 @2913 has 1 MA's), (35, 2931), (58, 3084), (60, 3090), (69, 3153), (70, 3192), (83, 3303), (88, 3360), (98, 3420), (111, 3534), (141, 3615), (147, 3666), (150, 3699), (152, 3708), (157, 3777), (163, 3813), (169, 3861), (170, 3873), (178, 3915), (221, 4173), (240, 4293), (242, 4308),

Gene: CoolCookie_11 Start: 3131, Stop: 4591, Start Num: 10
Candidate Starts for CoolCookie_11:
(Start: 10 @3131 has 64 MA's), (Start: 28 @3182 has 1 MA's), (35, 3200), (58, 3353), (60, 3359), (69, 3422), (70, 3461), (83, 3572), (88, 3629), (98, 3689), (111, 3803), (141, 3884), (150, 3968), (152, 3977), (157, 4046), (163, 4082), (169, 4130), (170, 4142), (178, 4184), (221, 4442), (240, 4562), (242, 4577),

Gene: Crestdrop_10 Start: 2735, Stop: 4195, Start Num: 10
Candidate Starts for Crestdrop_10:
(Start: 10 @2735 has 64 MA's), (Start: 28 @2786 has 1 MA's), (35, 2804), (51, 2894), (58, 2957), (60, 2963), (69, 3026), (70, 3065), (83, 3176), (88, 3233), (98, 3293), (111, 3407), (141, 3488), (147, 3539), (150, 3572), (152, 3581), (157, 3650), (163, 3686), (169, 3734), (170, 3746), (178, 3788), (221, 4046), (242, 4181),

Gene: Cuke_1 Start: 1, Stop: 1644, Start Num: 28
Candidate Starts for Cuke_1:
(Start: 28 @1 has 1 MA's), (Start: 31 @10 has 12 MA's), (35, 19), (36, 22), (51, 118), (55, 166), (66, 214), (70, 283), (76, 319), (78, 361), (82, 388), (86, 430), (88, 451), (105, 580), (112, 631), (113, 643), (120, 673), (126, 694), (134, 754), (144, 811), (159, 964), (164, 997), (187, 1156), (201, 1243), (209, 1264), (211, 1276), (218, 1315), (219, 1318), (224, 1384), (239, 1459), (253, 1555), (256, 1600), (259, 1624),

Gene: Cybele_11 Start: 3104, Stop: 4564, Start Num: 10
Candidate Starts for Cybele_11:
(Start: 10 @3104 has 64 MA's), (Start: 28 @3155 has 1 MA's), (35, 3173), (58, 3326), (60, 3332), (70, 3434), (83, 3545), (88, 3602), (98, 3662), (111, 3776), (141, 3857), (150, 3941), (152, 3950), (157, 4019), (163, 4055), (169, 4103), (170, 4115), (178, 4157), (221, 4415), (240, 4535), (242, 4550),

Gene: Damien_4 Start: 2133, Stop: 3842, Start Num: 18
Candidate Starts for Damien_4:
(8, 2094), (Start: 12 @2112 has 2 MA's), (Start: 18 @2133 has 9 MA's), (46, 2226), (48, 2232), (49, 2235), (54, 2295), (57, 2325), (63, 2343), (70, 2430), (78, 2511), (79, 2514), (89, 2607), (91, 2625), (95, 2649), (97, 2655), (99, 2664), (106, 2736), (123, 2874), (130, 2895), (133, 2940), (147, 3036), (148, 3045), (153, 3084), (156, 3126), (157, 3153), (159, 3162), (160, 3165), (175, 3267), (186, 3360), (192, 3402), (195, 3420), (212, 3510), (214, 3525), (224, 3621), (228, 3660), (229, 3663), (238, 3696), (246, 3741), (247, 3750), (251, 3768),

Gene: DannyDe_10 Start: 2853, Stop: 4313, Start Num: 10
Candidate Starts for DannyDe_10:
(Start: 10 @2853 has 64 MA's), (Start: 28 @2904 has 1 MA's), (35, 2922), (51, 3012), (58, 3075), (60, 3081), (69, 3144), (70, 3183), (81, 3273), (83, 3294), (88, 3351), (98, 3411), (111, 3525), (141, 3606), (147, 3657), (150, 3690), (152, 3699), (157, 3768), (163, 3804), (169, 3852), (170, 3864), (178, 3906), (221, 4164), (240, 4284), (242, 4299),

Gene: Dauntless_10 Start: 2854, Stop: 4314, Start Num: 10
Candidate Starts for Dauntless_10:
(Start: 10 @2854 has 64 MA's), (Start: 28 @2905 has 1 MA's), (35, 2923), (51, 3013), (58, 3076), (60, 3082), (69, 3145), (70, 3184), (83, 3295), (88, 3352), (98, 3412), (111, 3526), (141, 3607), (147, 3658), (150, 3691), (152, 3700), (157, 3769), (163, 3805), (169, 3853), (170, 3865), (178, 3907), (221, 4165), (240, 4285), (242, 4300),

Gene: DaviePasture_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for DaviePasture_2:

(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Delton_8 Start: 4612, Stop: 6378, Start Num: 10
Candidate Starts for Delton_8:
(Start: 10 @4612 has 64 MA's), (50, 4771), (68, 4885), (69, 4900), (72, 4954), (73, 4957), (74, 4963), (78, 5017), (83, 5050), (86, 5086), (87, 5098), (88, 5107), (89, 5113), (93, 5143), (96, 5158), (107, 5245), (112, 5287), (114, 5311), (126, 5410), (130, 5422), (131, 5440), (137, 5491), (141, 5512), (147, 5563), (148, 5572), (157, 5704), (166, 5764), (173, 5812), (181, 5863), (182, 5878), (208, 5998), (212, 6019), (218, 6055), (226, 6142), (230, 6169), (237, 6196), (258, 6349),

Gene: Demikore_6 Start: 2636, Stop: 4303, Start Num: 21
Candidate Starts for Demikore_6:
(Start: 21 @2636 has 3 MA's), (49, 2744), (58, 2834), (62, 2846), (63, 2849), (75, 2966), (78, 3014), (81, 3026), (88, 3104), (89, 3110), (91, 3128), (101, 3176), (112, 3284), (123, 3338), (127, 3350), (130, 3359), (134, 3410), (139, 3437), (156, 3584), (157, 3611), (168, 3689), (175, 3725), (182, 3785), (185, 3800), (189, 3848), (200, 3908), (211, 3965), (212, 3968), (231, 4127),

Gene: Djokovic_1 Start: 1, Stop: 1509, Start Num: 33
Candidate Starts for Djokovic_1:
(Start: 33 @1 has 9 MA's), (39, 28), (47, 67), (63, 178), (67, 202), (78, 343), (89, 439), (91, 457), (112, 613), (113, 625), (122, 688), (123, 703), (126, 712), (132, 766), (140, 814), (141, 823), (148, 883), (156, 958), (157, 985), (199, 1261), (212, 1294), (216, 1315), (218, 1330), (222, 1363), (224, 1393), (235, 1453), (241, 1483),

Gene: DoobyDoo_2 Start: 201, Stop: 1709, Start Num: 30
Candidate Starts for DoobyDoo_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 240), (69, 429), (76, 504), (93, 672), (102, 723), (103, 726), (105, 765), (109, 792), (112, 816), (114, 840), (122, 891), (131, 915), (133, 942), (135, 951), (147, 1038), (156, 1122), (160, 1161), (163, 1185), (164, 1191), (204, 1455), (216, 1509), (217, 1515), (224, 1587),

Gene: DrLupo_6 Start: 2630, Stop: 4312, Start Num: 12
Candidate Starts for DrLupo_6:
(Start: 12 @2630 has 2 MA's), (49, 2756), (52, 2801), (63, 2861), (70, 2948), (74, 2972), (78, 3026), (85, 3092), (89, 3122), (95, 3164), (97, 3170), (100, 3182), (110, 3275), (114, 3320), (123, 3350), (127, 3362), (130, 3371), (134, 3422), (137, 3440), (139, 3449), (147, 3512), (151, 3551), (154, 3563), (155, 3593), (157, 3629), (165, 3683), (173, 3740), (182, 3803), (200, 3926), (211, 3983), (212, 3986), (224, 4094), (227, 4124), (231, 4145), (238, 4169), (244, 4205),

Gene: DumpTruck_2 Start: 204, Stop: 1715, Start Num: 30
Candidate Starts for DumpTruck_2:
(Start: 30 @204 has 39 MA's), (56, 357), (58, 369), (69, 432), (71, 474), (75, 501), (76, 507), (87, 630), (88, 639), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (133, 945), (140, 981), (148, 1050), (156, 1125), (157, 1152), (160, 1164), (161, 1170), (167, 1221), (173, 1263), (198, 1428), (202, 1446), (212, 1494), (216, 1515), (224, 1593), (227, 1623),

Gene: Erk16_8 Start: 4612, Stop: 6378, Start Num: 10
Candidate Starts for Erk16_8:
(Start: 10 @4612 has 64 MA's), (50, 4771), (68, 4885), (69, 4900), (72, 4954), (73, 4957), (74, 4963), (78, 5017), (83, 5050), (86, 5086), (87, 5098), (88, 5107), (89, 5113), (93, 5143), (96, 5158), (107,

5245), (112, 5287), (114, 5311), (126, 5410), (130, 5422), (131, 5440), (137, 5491), (141, 5512), (147, 5563), (148, 5572), (157, 5704), (166, 5764), (173, 5812), (181, 5863), (182, 5878), (208, 5998), (212, 6019), (218, 6055), (226, 6142), (230, 6169), (237, 6196), (258, 6349),

Gene: Erudite_10 Start: 2854, Stop: 4314, Start Num: 10
Candidate Starts for Erudite_10:
(Start: 10 @2854 has 64 MA's), (Start: 28 @2905 has 1 MA's), (35, 2923), (51, 3013), (58, 3076), (60, 3082), (69, 3145), (70, 3184), (83, 3295), (88, 3352), (98, 3412), (111, 3526), (141, 3607), (147, 3658), (150, 3691), (152, 3700), (157, 3769), (163, 3805), (169, 3853), (170, 3865), (178, 3907), (221, 4165), (240, 4285), (242, 4300),

Gene: Erutan_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Erutan_2:
(Start: 25 @186 has 1 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (45, 261), (50, 303), (56, 357), (65, 399), (69, 432), (76, 507), (93, 675), (96, 690), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (119, 882), (122, 894), (131, 918), (133, 945), (135, 954), (139, 978), (147, 1041), (148, 1050), (156, 1125), (204, 1458), (216, 1512), (217, 1518), (224, 1590),

Gene: FountainFog_9 Start: 2861, Stop: 4321, Start Num: 10
Candidate Starts for FountainFog_9:
(Start: 10 @2861 has 64 MA's), (Start: 28 @2912 has 1 MA's), (35, 2930), (44, 2975), (51, 3020), (55, 3068), (58, 3083), (60, 3089), (69, 3152), (70, 3191), (83, 3302), (88, 3359), (98, 3419), (111, 3533), (141, 3614), (152, 3707), (157, 3776), (163, 3812), (164, 3818), (169, 3860), (170, 3872), (178, 3914), (188, 4004), (215, 4115), (217, 4124), (221, 4172), (224, 4205), (242, 4307),

Gene: Fowlmouth_1 Start: 1, Stop: 1638, Start Num: 31
Candidate Starts for Fowlmouth_1:
(Start: 31 @1 has 12 MA's), (36, 13), (46, 73), (51, 109), (55, 157), (74, 298), (76, 310), (78, 352), (82, 379), (86, 421), (105, 571), (112, 622), (113, 634), (114, 646), (144, 802), (159, 955), (164, 988), (167, 1015), (187, 1147), (201, 1234), (209, 1255), (211, 1267), (218, 1306), (221, 1342), (227, 1405), (239, 1450), (253, 1549), (254, 1561), (255, 1591),

Gene: FreddieHg_10 Start: 2875, Stop: 4335, Start Num: 10
Candidate Starts for FreddieHg_10:
(Start: 10 @2875 has 64 MA's), (Start: 28 @2926 has 1 MA's), (35, 2944), (58, 3097), (60, 3103), (61, 3109), (69, 3166), (70, 3205), (83, 3316), (88, 3373), (98, 3433), (111, 3547), (141, 3628), (150, 3712), (152, 3721), (157, 3790), (163, 3826), (169, 3874), (170, 3886), (178, 3928), (221, 4186), (242, 4321),

Gene: Fulcrum_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Fulcrum_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (204, 1458), (216, 1512), (217, 1518), (224, 1590),

Gene: GOATification_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for GOATification_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (204, 1458), (216, 1512), (217, 1518), (224, 1590),

Gene: Genamy16_2 Start: 201, Stop: 1712, Start Num: 30

Candidate Starts for Genamy16_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Gibbin_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Gibbin_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Gilda_11 Start: 3128, Stop: 4588, Start Num: 10
Candidate Starts for Gilda_11:
(Start: 10 @3128 has 64 MA's), (Start: 28 @3179 has 1 MA's), (35, 3197), (58, 3350), (60, 3356), (69, 3419), (70, 3458), (83, 3569), (88, 3626), (98, 3686), (111, 3800), (141, 3881), (150, 3965), (152, 3974), (157, 4043), (163, 4079), (169, 4127), (170, 4139), (178, 4181), (221, 4439), (240, 4559), (242, 4574),

Gene: Gimesa_5 Start: 1624, Stop: 3276, Start Num: 31
Candidate Starts for Gimesa_5:
(Start: 31 @1624 has 12 MA's), (51, 1732), (57, 1795), (65, 1828), (76, 1936), (78, 1975), (84, 2029), (86, 2044), (88, 2065), (89, 2071), (91, 2089), (112, 2245), (114, 2269), (123, 2299), (135, 2371), (157, 2569), (161, 2587), (167, 2638), (186, 2761), (189, 2791), (198, 2845), (201, 2860), (207, 2887), (212, 2911), (218, 2947), (220, 2980), (224, 3016), (249, 3148), (260, 3259),

Gene: Giuseppe_8 Start: 4595, Stop: 6361, Start Num: 10
Candidate Starts for Giuseppe_8:
(Start: 10 @4595 has 64 MA's), (50, 4754), (68, 4868), (69, 4883), (72, 4937), (73, 4940), (74, 4946), (78, 5000), (83, 5033), (86, 5069), (87, 5081), (88, 5090), (89, 5096), (93, 5126), (96, 5141), (107, 5228), (112, 5270), (114, 5294), (126, 5393), (130, 5405), (131, 5423), (137, 5474), (141, 5495), (147, 5546), (148, 5555), (157, 5687), (166, 5747), (173, 5795), (181, 5846), (182, 5861), (208, 5981), (212, 6002), (218, 6038), (226, 6125), (230, 6152), (237, 6179), (258, 6332),

Gene: GretelLyn_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for GretelLyn_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Gumball_7 Start: 4550, Stop: 6316, Start Num: 10
Candidate Starts for Gumball_7:
(Start: 10 @4550 has 64 MA's), (50, 4709), (68, 4823), (69, 4838), (72, 4892), (74, 4901), (78, 4955), (83, 4988), (86, 5024), (87, 5036), (88, 5045), (89, 5051), (93, 5081), (96, 5096), (107, 5183), (112, 5225), (114, 5249), (126, 5348), (130, 5360), (131, 5378), (137, 5429), (141, 5450), (147, 5501), (148, 5510), (157, 5642), (166, 5702), (173, 5750), (181, 5801), (182, 5816), (208, 5936), (212, 5957), (218, 5993), (226, 6080), (230, 6107), (237, 6134), (258, 6287),

Gene: Hager_11 Start: 3129, Stop: 4577, Start Num: 10
Candidate Starts for Hager_11:
(Start: 10 @3129 has 64 MA's), (Start: 28 @3168 has 1 MA's), (35, 3186), (58, 3339), (60, 3345), (61, 3351), (69, 3408), (70, 3447), (83, 3558), (88, 3615), (98, 3675), (111, 3789), (141, 3870), (150, 3954), (152, 3963), (157, 4032), (163, 4068), (169, 4116), (170, 4128), (178, 4170), (221, 4428), (242, 4563),

Gene: Haunter_11 Start: 3078, Stop: 4538, Start Num: 10
Candidate Starts for Haunter_11:
(Start: 10 @3078 has 64 MA's), (Start: 28 @3129 has 1 MA's), (35, 3147), (58, 3300), (60, 3306), (69, 3369), (70, 3408), (83, 3519), (88, 3576), (98, 3636), (111, 3750), (141, 3831), (147, 3882), (150, 3915), (152, 3924), (157, 3993), (163, 4029), (169, 4077), (170, 4089), (178, 4131), (221, 4389), (240, 4509), (242, 4524),

Gene: Hawkeye_9 Start: 4326, Stop: 6050, Start Num: 15
Candidate Starts for Hawkeye_9:
(Start: 15 @4326 has 1 MA's), (41, 4404), (42, 4413), (56, 4524), (59, 4539), (68, 4584), (69, 4599), (78, 4716), (80, 4722), (83, 4749), (88, 4806), (89, 4812), (107, 4944), (112, 4986), (113, 4998), (114, 5010), (117, 5049), (126, 5109), (130, 5121), (131, 5139), (141, 5211), (148, 5271), (157, 5373), (164, 5415), (166, 5433), (167, 5442), (212, 5688), (218, 5724), (226, 5811), (236, 5862), (241, 5892), (245, 5916),

Gene: Helpful_8 Start: 4603, Stop: 6369, Start Num: 10
Candidate Starts for Helpful_8:
(Start: 10 @4603 has 64 MA's), (50, 4762), (68, 4876), (69, 4891), (72, 4945), (73, 4948), (74, 4954), (78, 5008), (83, 5041), (86, 5077), (87, 5089), (88, 5098), (89, 5104), (93, 5134), (96, 5149), (107, 5236), (112, 5278), (114, 5302), (126, 5401), (130, 5413), (131, 5431), (137, 5482), (141, 5503), (147, 5554), (148, 5563), (157, 5695), (166, 5755), (173, 5803), (181, 5854), (182, 5869), (208, 5989), (212, 6010), (218, 6046), (226, 6133), (230, 6160), (237, 6187), (258, 6340),

Gene: Hiddenleaf_10 Start: 2862, Stop: 4322, Start Num: 10
Candidate Starts for Hiddenleaf_10:
(Start: 10 @2862 has 64 MA's), (Start: 28 @2913 has 1 MA's), (35, 2931), (58, 3084), (60, 3090), (69, 3153), (70, 3192), (83, 3303), (88, 3360), (98, 3420), (111, 3534), (141, 3615), (147, 3666), (150, 3699), (152, 3708), (157, 3777), (163, 3813), (169, 3861), (170, 3873), (178, 3915), (221, 4173), (240, 4293), (242, 4308),

Gene: Huwbert_35 Start: 15707, Stop: 17137, Start Num: 13
Candidate Starts for Huwbert_35:
(Start: 13 @15707 has 2 MA's), (Start: 18 @15719 has 9 MA's), (48, 15833), (50, 15860), (68, 15953), (78, 16085), (88, 16172), (96, 16223), (103, 16262), (104, 16271), (112, 16361), (138, 16418), (146, 16478), (148, 16496), (149, 16499), (170, 16697), (176, 16715), (186, 16790), (192, 16832), (193, 16838), (210, 16898), (218, 16946), (224, 17009), (234, 17072), (243, 17117),

Gene: Indlulamithi_1 Start: 1, Stop: 1710, Start Num: 33
Candidate Starts for Indlulamithi_1:
(Start: 33 @1 has 9 MA's), (36, 10), (48, 76), (51, 106), (54, 139), (57, 169), (72, 289), (76, 310), (78, 352), (82, 379), (86, 421), (99, 505), (112, 622), (123, 739), (124, 742), (138, 829), (147, 898), (173, 1120), (187, 1210), (190, 1234), (197, 1279), (202, 1300), (205, 1318), (206, 1321), (211, 1345), (212, 1348), (218, 1384), (219, 1387), (224, 1453), (227, 1483), (235, 1513), (248, 1582), (250, 1597), (256, 1663),

Gene: JDawG_11 Start: 2919, Stop: 4379, Start Num: 10
Candidate Starts for JDawG_11:
(Start: 10 @2919 has 64 MA's), (Start: 28 @2970 has 1 MA's), (35, 2988), (51, 3078), (58, 3141), (60, 3147), (69, 3210), (70, 3249), (83, 3360), (88, 3417), (98, 3477), (111, 3591), (141, 3672), (147, 3723), (150, 3756), (152, 3765), (157, 3834), (163, 3870), (164, 3876), (169, 3918), (170, 3930), (178, 3972), (221, 4230), (240, 4350), (242, 4365),

Gene: Jalebi_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Jalebi_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Jamemuya19_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Jamemuya19_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: JingleBells_10 Start: 2931, Stop: 4391, Start Num: 10
Candidate Starts for JingleBells_10:
(Start: 10 @2931 has 64 MA's), (Start: 28 @2982 has 1 MA's), (35, 3000), (51, 3090), (58, 3153), (60, 3159), (69, 3222), (70, 3261), (83, 3372), (88, 3429), (98, 3489), (111, 3603), (141, 3684), (147, 3735), (150, 3768), (152, 3777), (157, 3846), (163, 3882), (169, 3930), (170, 3942), (178, 3984), (221, 4242), (240, 4362), (242, 4377),

Gene: KandZ_8 Start: 4697, Stop: 6466, Start Num: 9
Candidate Starts for KandZ_8:
(Start: 9 @4697 has 2 MA's), (50, 4859), (68, 4973), (69, 4988), (72, 5042), (74, 5051), (78, 5105), (83, 5138), (86, 5174), (87, 5186), (88, 5195), (89, 5201), (93, 5231), (96, 5246), (107, 5333), (112, 5375), (114, 5399), (126, 5498), (130, 5510), (131, 5528), (137, 5579), (141, 5600), (147, 5651), (148, 5660), (157, 5792), (166, 5852), (173, 5900), (181, 5951), (182, 5966), (208, 6086), (212, 6107), (218, 6143), (226, 6230), (230, 6257), (237, 6284), (258, 6437),

Gene: Karate_10 Start: 3083, Stop: 4543, Start Num: 10
Candidate Starts for Karate_10:
(Start: 10 @3083 has 64 MA's), (Start: 28 @3134 has 1 MA's), (35, 3152), (58, 3305), (60, 3311), (69, 3374), (70, 3413), (83, 3524), (88, 3581), (98, 3641), (111, 3755), (141, 3836), (150, 3920), (152, 3929), (157, 3998), (163, 4034), (169, 4082), (170, 4094), (178, 4136), (221, 4394), (242, 4529),

Gene: Kate_11 Start: 3136, Stop: 4596, Start Num: 10
Candidate Starts for Kate_11:
(Start: 10 @3136 has 64 MA's), (Start: 28 @3187 has 1 MA's), (35, 3205), (58, 3358), (60, 3364), (70, 3466), (83, 3577), (88, 3634), (98, 3694), (111, 3808), (141, 3889), (150, 3973), (152, 3982), (157, 4051), (163, 4087), (169, 4135), (170, 4147), (178, 4189), (221, 4447), (240, 4567), (242, 4582),

Gene: Konstantine_5 Start: 2389, Stop: 4098, Start Num: 18
Candidate Starts for Konstantine_5:
(Start: 18 @2389 has 9 MA's), (46, 2482), (48, 2488), (49, 2491), (54, 2551), (57, 2581), (63, 2599), (78, 2767), (79, 2770), (89, 2863), (91, 2881), (95, 2905), (97, 2911), (99, 2920), (106, 2992), (123, 3130), (130, 3151), (133, 3196), (147, 3292), (148, 3301), (153, 3340), (156, 3382), (157, 3409), (159, 3418), (160, 3421), (175, 3523), (186, 3616), (192, 3658), (195, 3676), (212, 3766), (214, 3781), (224, 3877), (228, 3916), (229, 3919), (238, 3952), (246, 3997), (247, 4006), (251, 4024),

Gene: Kors_11 Start: 2993, Stop: 4474, Start Num: 10
Candidate Starts for Kors_11:
(Start: 10 @2993 has 64 MA's), (Start: 19 @3020 has 1 MA's), (Start: 30 @3050 has 39 MA's), (37, 3068), (54, 3212), (58, 3242), (60, 3248), (74, 3374), (77, 3392), (81, 3440), (83, 3461), (93, 3554), (98,

3578), (141, 3773), (157, 3935), (161, 3953), (162, 3959), (163, 3971), (164, 3977), (169, 4019), (170, 4031), (184, 4127), (186, 4136), (218, 4292), (219, 4295), (223, 4337),

Gene: Krampus_11 Start: 3134, Stop: 4594, Start Num: 10
Candidate Starts for Krampus_11:
(Start: 10 @3134 has 64 MA's), (Start: 28 @3185 has 1 MA's), (35, 3203), (58, 3356), (60, 3362), (61, 3368), (69, 3425), (70, 3464), (83, 3575), (88, 3632), (98, 3692), (111, 3806), (141, 3887), (150, 3971), (152, 3980), (157, 4049), (163, 4085), (169, 4133), (170, 4145), (178, 4187), (221, 4445), (242, 4580),

Gene: Labelle_6 Start: 3029, Stop: 4702, Start Num: 19
Candidate Starts for Labelle_6:
(Start: 19 @3029 has 1 MA's), (Start: 21 @3035 has 3 MA's), (49, 3143), (58, 3233), (62, 3245), (63, 3248), (75, 3365), (78, 3413), (81, 3425), (88, 3503), (89, 3509), (91, 3527), (101, 3575), (112, 3683), (123, 3737), (127, 3749), (130, 3758), (134, 3809), (139, 3836), (143, 3860), (156, 3983), (157, 4010), (168, 4088), (182, 4184), (185, 4199), (189, 4247), (200, 4307), (211, 4364), (212, 4367), (231, 4526),

Gene: Lambo_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Lambo_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (65, 399), (69, 432), (76, 507), (81, 561), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (119, 882), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: LavAbarElk_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for LavAbarElk_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Leopard_17 Start: 10136, Stop: 11845, Start Num: 29
Candidate Starts for Leopard_17:
(20, 10121), (Start: 29 @10136 has 1 MA's), (32, 10145), (50, 10247), (54, 10283), (63, 10328), (76, 10451), (86, 10562), (89, 10589), (90, 10592), (98, 10643), (112, 10763), (114, 10787), (116, 10817), (117, 10826), (127, 10889), (130, 10898), (145, 11018), (157, 11150), (164, 11192), (174, 11273), (181, 11327), (191, 11396), (212, 11498), (218, 11534), (224, 11603), (227, 11633), (233, 11663), (243, 11711), (252, 11771), (253, 11780),

Gene: Lila22_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Lila22_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (56, 357), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (204, 1458), (216, 1512), (217, 1518), (224, 1590),

Gene: LilyPad_1 Start: 1, Stop: 1509, Start Num: 33
Candidate Starts for LilyPad_1:
(Start: 33 @1 has 9 MA's), (38, 25), (39, 28), (63, 178), (67, 202), (78, 343), (88, 433), (89, 439), (91, 457), (112, 613), (113, 625), (114, 637), (115, 658), (122, 688), (123, 703), (126, 712), (132, 766), (141, 823), (156, 958), (157, 985), (212, 1294), (216, 1315), (218, 1330), (222, 1363), (224, 1393), (227, 1423), (241, 1483),

Gene: LittleFella_1 Start: 1, Stop: 1548, Start Num: 27

Candidate Starts for LittleFella_1:
(Start: 27 @1 has 1 MA's), (50, 112), (54, 148), (59, 181), (67, 217), (69, 241), (76, 316), (78, 358), (81, 370), (88, 448), (89, 454), (91, 472), (94, 490), (112, 628), (118, 682), (121, 700), (122, 703), (123, 727), (124, 730), (129, 751), (131, 772), (134, 808), (136, 814), (140, 838), (141, 847), (142, 853), (151, 937), (156, 982), (157, 1009), (161, 1027), (164, 1051), (166, 1069), (168, 1087), (183, 1183), (212, 1336), (216, 1357), (218, 1372), (222, 1405),

Gene: LordBart_11 Start: 2966, Stop: 4447, Start Num: 10
Candidate Starts for LordBart_11:
(Start: 10 @2966 has 64 MA's), (Start: 19 @2993 has 1 MA's), (Start: 30 @3023 has 39 MA's), (37, 3041), (54, 3185), (58, 3215), (60, 3221), (74, 3347), (77, 3365), (80, 3407), (81, 3413), (83, 3434), (93, 3527), (98, 3551), (141, 3746), (147, 3797), (157, 3908), (161, 3926), (162, 3932), (163, 3944), (164, 3950), (169, 3992), (170, 4004), (179, 4052), (184, 4100), (186, 4109), (218, 4265), (219, 4268), (223, 4310),

Gene: LuckyLeo_1 Start: 33, Stop: 1556, Start Num: 25
Candidate Starts for LuckyLeo_1:
(Start: 25 @33 has 1 MA's), (Start: 30 @48 has 39 MA's), (50, 147), (65, 243), (69, 276), (76, 351), (93, 519), (96, 534), (102, 570), (103, 573), (105, 612), (109, 639), (112, 663), (114, 687), (119, 726), (122, 738), (131, 762), (133, 789), (135, 798), (139, 822), (147, 885), (148, 894), (156, 969), (160, 1008), (164, 1038), (212, 1335), (216, 1356), (224, 1434),

Gene: Madi_1 Start: 1, Stop: 1509, Start Num: 33
Candidate Starts for Madi_1:
(Start: 33 @1 has 9 MA's), (39, 28), (47, 67), (63, 178), (67, 202), (78, 343), (87, 424), (89, 439), (91, 457), (93, 469), (112, 613), (113, 625), (118, 667), (122, 688), (123, 703), (132, 766), (140, 814), (141, 823), (148, 883), (156, 958), (157, 985), (199, 1261), (212, 1294), (216, 1315), (218, 1330), (222, 1363), (224, 1393), (235, 1453), (241, 1483),

Gene: Madruga_5 Start: 2636, Stop: 4303, Start Num: 21
Candidate Starts for Madruga_5:
(Start: 21 @2636 has 3 MA's), (49, 2744), (58, 2834), (62, 2846), (63, 2849), (75, 2966), (78, 3014), (81, 3026), (88, 3104), (89, 3110), (91, 3128), (101, 3176), (112, 3284), (123, 3338), (127, 3350), (130, 3359), (134, 3410), (139, 3437), (143, 3461), (156, 3584), (157, 3611), (165, 3665), (168, 3689), (182, 3785), (185, 3800), (189, 3848), (200, 3908), (211, 3965), (212, 3968), (231, 4127),

Gene: Megatron06_5 Start: 2668, Stop: 4377, Start Num: 17
Candidate Starts for Megatron06_5:
(2, 2566), (3, 2584), (7, 2629), (14, 2659), (16, 2665), (Start: 17 @2668 has 2 MA's), (46, 2761), (48, 2767), (49, 2770), (54, 2830), (57, 2860), (63, 2878), (70, 2965), (78, 3046), (79, 3049), (89, 3142), (91, 3160), (95, 3184), (97, 3190), (106, 3271), (123, 3409), (130, 3430), (133, 3475), (147, 3571), (148, 3580), (153, 3619), (156, 3661), (157, 3688), (159, 3697), (160, 3700), (175, 3802), (186, 3895), (192, 3937), (195, 3955), (212, 4045), (214, 4060), (224, 4156), (228, 4195), (229, 4198), (238, 4231), (246, 4276), (247, 4285), (251, 4303),

Gene: Mima20_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Mima20_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (198, 1428), (204, 1458), (216, 1512), (217, 1518), (224, 1590),

Gene: MoiGyank_2 Start: 201, Stop: 1712, Start Num: 30

Candidate Starts for MoiGyank_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: MontyDev_5 Start: 1623, Stop: 3275, Start Num: 31
Candidate Starts for MontyDev_5:
(Start: 31 @1623 has 12 MA's), (51, 1731), (57, 1794), (65, 1827), (76, 1935), (78, 1974), (84, 2028), (86, 2043), (88, 2064), (89, 2070), (91, 2088), (112, 2244), (114, 2268), (123, 2298), (126, 2307), (135, 2370), (157, 2568), (161, 2586), (167, 2637), (186, 2760), (189, 2790), (198, 2844), (201, 2859), (207, 2886), (212, 2910), (218, 2946), (220, 2979), (224, 3015), (249, 3147), (260, 3258),

Gene: Mopey_8 Start: 4603, Stop: 6369, Start Num: 10
Candidate Starts for Mopey_8:
(Start: 10 @4603 has 64 MA's), (50, 4762), (68, 4876), (69, 4891), (72, 4945), (73, 4948), (74, 4954), (78, 5008), (83, 5041), (86, 5077), (87, 5089), (88, 5098), (89, 5104), (93, 5134), (96, 5149), (107, 5236), (112, 5278), (114, 5302), (126, 5401), (130, 5413), (131, 5431), (137, 5482), (141, 5503), (147, 5554), (148, 5563), (157, 5695), (166, 5755), (173, 5803), (181, 5854), (182, 5869), (208, 5989), (212, 6010), (218, 6046), (226, 6133), (230, 6160), (237, 6187), (258, 6340),

Gene: MortySmith_10 Start: 2836, Stop: 4296, Start Num: 10
Candidate Starts for MortySmith_10:
(Start: 10 @2836 has 64 MA's), (Start: 28 @2887 has 1 MA's), (35, 2905), (51, 2995), (58, 3058), (60, 3064), (69, 3127), (70, 3166), (83, 3277), (88, 3334), (98, 3394), (111, 3508), (141, 3589), (150, 3673), (152, 3682), (157, 3751), (163, 3787), (169, 3835), (170, 3847), (178, 3889), (221, 4147), (240, 4267), (242, 4282),

Gene: MrMiyagi_1 Start: 1, Stop: 1638, Start Num: 31
Candidate Starts for MrMiyagi_1:
(Start: 31 @1 has 12 MA's), (36, 13), (46, 73), (51, 109), (55, 157), (74, 298), (76, 310), (78, 352), (82, 379), (86, 421), (105, 571), (112, 622), (113, 634), (114, 646), (144, 802), (159, 955), (164, 988), (167, 1015), (187, 1147), (201, 1234), (209, 1255), (211, 1267), (218, 1306), (221, 1342), (227, 1405), (239, 1450), (253, 1549), (254, 1561), (255, 1591),

Gene: NarutoRun_11 Start: 3139, Stop: 4599, Start Num: 10
Candidate Starts for NarutoRun_11:
(Start: 10 @3139 has 64 MA's), (Start: 28 @3190 has 1 MA's), (35, 3208), (58, 3361), (60, 3367), (70, 3469), (83, 3580), (88, 3637), (98, 3697), (111, 3811), (141, 3892), (147, 3943), (150, 3976), (152, 3985), (157, 4054), (163, 4090), (169, 4138), (170, 4150), (178, 4192), (221, 4450), (240, 4570), (242, 4585),

Gene: Neptune_11 Start: 3104, Stop: 4564, Start Num: 10
Candidate Starts for Neptune_11:
(Start: 10 @3104 has 64 MA's), (Start: 28 @3155 has 1 MA's), (35, 3173), (58, 3326), (60, 3332), (70, 3434), (83, 3545), (88, 3602), (98, 3662), (111, 3776), (141, 3857), (150, 3941), (152, 3950), (157, 4019), (163, 4055), (169, 4103), (170, 4115), (178, 4157), (221, 4415), (240, 4535), (242, 4550),

Gene: Nettle_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Nettle_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224,

1590),

Gene: Nilo_5 Start: 1624, Stop: 3276, Start Num: 31
Candidate Starts for Nilo_5:
(Start: 31 @1624 has 12 MA's), (51, 1732), (57, 1795), (65, 1828), (76, 1936), (78, 1975), (84, 2029), (86, 2044), (88, 2065), (89, 2071), (91, 2089), (112, 2245), (114, 2269), (123, 2299), (135, 2371), (157, 2569), (161, 2587), (167, 2638), (186, 2761), (189, 2791), (198, 2845), (201, 2860), (207, 2887), (212, 2911), (218, 2947), (220, 2980), (224, 3016), (249, 3148), (260, 3259),

Gene: Nish23_4 Start: 2133, Stop: 3842, Start Num: 18
Candidate Starts for Nish23_4:
(8, 2094), (Start: 12 @2112 has 2 MA's), (Start: 18 @2133 has 9 MA's), (46, 2226), (48, 2232), (49, 2235), (54, 2295), (57, 2325), (63, 2343), (70, 2430), (78, 2511), (79, 2514), (89, 2607), (91, 2625), (95, 2649), (97, 2655), (106, 2736), (123, 2874), (130, 2895), (133, 2940), (147, 3036), (148, 3045), (153, 3084), (156, 3126), (157, 3153), (159, 3162), (160, 3165), (175, 3267), (186, 3360), (192, 3402), (195, 3420), (212, 3510), (214, 3525), (224, 3621), (228, 3660), (229, 3663), (238, 3696), (246, 3741), (247, 3750), (251, 3768),

Gene: NorManre_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for NorManre_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (198, 1428), (204, 1458), (216, 1512), (217, 1518), (224, 1590),

Gene: Nova_8 Start: 5024, Stop: 6793, Start Num: 9
Candidate Starts for Nova_8:
(Start: 9 @5024 has 2 MA's), (50, 5186), (55, 5237), (68, 5300), (69, 5315), (72, 5369), (73, 5372), (74, 5378), (78, 5432), (83, 5465), (86, 5501), (87, 5513), (88, 5522), (89, 5528), (93, 5558), (96, 5573), (107, 5660), (112, 5702), (114, 5726), (126, 5825), (130, 5837), (131, 5855), (137, 5906), (141, 5927), (147, 5978), (148, 5987), (157, 6119), (166, 6179), (173, 6227), (181, 6278), (182, 6293), (208, 6413), (212, 6434), (218, 6470), (226, 6557), (230, 6584), (237, 6611), (258, 6764),

Gene: NovaSharks_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for NovaSharks_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Oaker_5 Start: 2389, Stop: 4098, Start Num: 18
Candidate Starts for Oaker_5:
(Start: 18 @2389 has 9 MA's), (46, 2482), (48, 2488), (49, 2491), (54, 2551), (57, 2581), (63, 2599), (78, 2767), (79, 2770), (89, 2863), (91, 2881), (95, 2905), (97, 2911), (99, 2920), (106, 2992), (123, 3130), (130, 3151), (133, 3196), (147, 3292), (148, 3301), (153, 3340), (156, 3382), (157, 3409), (159, 3418), (160, 3421), (175, 3523), (186, 3616), (192, 3658), (195, 3676), (212, 3766), (214, 3781), (224, 3877), (228, 3916), (229, 3919), (238, 3952), (246, 3997), (247, 4006), (251, 4024),

Gene: OhDear_11 Start: 3133, Stop: 4593, Start Num: 10
Candidate Starts for OhDear_11:
(Start: 10 @3133 has 64 MA's), (Start: 28 @3184 has 1 MA's), (35, 3202), (58, 3355), (60, 3361), (61, 3367), (69, 3424), (70, 3463), (83, 3574), (88, 3631), (98, 3691), (111, 3805), (141, 3886), (150, 3970), (152, 3979), (157, 4048), (163, 4084), (169, 4132), (170, 4144), (178, 4186), (221, 4444), (240, 4564),

(242, 4579),

Gene: Onyinye_18 Start: 10008, Stop: 11726, Start Num: 24
Candidate Starts for Onyinye_18:
(1, 9879), (6, 9936), (22, 10002), (Start: 24 @10008 has 2 MA's), (48, 10101), (49, 10104), (50, 10128), (54, 10164), (63, 10209), (76, 10332), (86, 10443), (89, 10470), (90, 10473), (98, 10524), (112, 10644), (114, 10668), (116, 10698), (117, 10707), (127, 10770), (130, 10779), (145, 10899), (157, 11031), (164, 11073), (174, 11154), (181, 11208), (191, 11277), (212, 11379), (218, 11415), (224, 11484), (227, 11514), (233, 11544), (243, 11592), (252, 11652), (253, 11661),

Gene: OtterstedtS21_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for OtterstedtS21_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (204, 1458), (216, 1512), (217, 1518), (224, 1590),

Gene: OverHedge_11 Start: 3101, Stop: 4561, Start Num: 10
Candidate Starts for OverHedge_11:
(Start: 10 @3101 has 64 MA's), (Start: 28 @3152 has 1 MA's), (35, 3170), (58, 3323), (60, 3329), (70, 3431), (83, 3542), (88, 3599), (98, 3659), (111, 3773), (141, 3854), (150, 3938), (152, 3947), (157, 4016), (163, 4052), (169, 4100), (170, 4112), (178, 4154), (219, 4376), (221, 4412), (240, 4532), (242, 4547),

Gene: PBI1_8 Start: 4540, Stop: 6306, Start Num: 10
Candidate Starts for PBI1_8:
(Start: 10 @4540 has 64 MA's), (50, 4699), (68, 4813), (69, 4828), (72, 4882), (73, 4885), (74, 4891), (78, 4945), (83, 4978), (86, 5014), (87, 5026), (88, 5035), (89, 5041), (93, 5071), (96, 5086), (107, 5173), (112, 5215), (114, 5239), (126, 5338), (130, 5350), (131, 5368), (137, 5419), (141, 5440), (147, 5491), (148, 5500), (157, 5632), (166, 5692), (173, 5740), (181, 5791), (182, 5806), (208, 5926), (212, 5947), (218, 5983), (226, 6070), (230, 6097), (237, 6124), (258, 6277),

Gene: PLot_8 Start: 4612, Stop: 6378, Start Num: 10
Candidate Starts for PLot_8:
(Start: 10 @4612 has 64 MA's), (50, 4771), (68, 4885), (69, 4900), (72, 4954), (74, 4963), (78, 5017), (83, 5050), (86, 5086), (87, 5098), (88, 5107), (89, 5113), (93, 5143), (96, 5158), (107, 5245), (112, 5287), (114, 5311), (126, 5410), (130, 5422), (131, 5440), (137, 5491), (141, 5512), (147, 5563), (148, 5572), (157, 5704), (166, 5764), (173, 5812), (181, 5863), (182, 5878), (208, 5998), (212, 6019), (218, 6055), (226, 6142), (230, 6169), (237, 6196), (258, 6349),

Gene: Papyrus_5 Start: 1624, Stop: 3276, Start Num: 31
Candidate Starts for Papyrus_5:
(Start: 31 @1624 has 12 MA's), (51, 1732), (57, 1795), (65, 1828), (76, 1936), (78, 1975), (84, 2029), (86, 2044), (88, 2065), (89, 2071), (91, 2089), (112, 2245), (114, 2269), (123, 2299), (135, 2371), (157, 2569), (161, 2587), (167, 2638), (186, 2761), (189, 2791), (198, 2845), (201, 2860), (207, 2887), (212, 2911), (218, 2947), (220, 2980), (224, 3016), (227, 3046), (249, 3148), (260, 3259),

Gene: ParvusTarda_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for ParvusTarda_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (134, 951), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Patience_6 Start: 3035, Stop: 4702, Start Num: 21
Candidate Starts for Patience_6:
(Start: 19 @3029 has 1 MA's), (Start: 21 @3035 has 3 MA's), (49, 3143), (58, 3233), (62, 3245), (63, 3248), (75, 3365), (78, 3413), (81, 3425), (88, 3503), (89, 3509), (91, 3527), (101, 3575), (112, 3683), (123, 3737), (127, 3749), (129, 3755), (130, 3758), (134, 3809), (139, 3836), (143, 3860), (156, 3983), (157, 4010), (168, 4088), (175, 4124), (182, 4184), (185, 4199), (200, 4307), (211, 4364), (212, 4367), (231, 4526), (257, 4697),

Gene: Patos_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Patos_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Penelope2018_8 Start: 4603, Stop: 6369, Start Num: 10
Candidate Starts for Penelope2018_8:
(Start: 10 @4603 has 64 MA's), (50, 4762), (68, 4876), (69, 4891), (72, 4945), (73, 4948), (74, 4954), (78, 5008), (83, 5041), (86, 5077), (87, 5089), (88, 5098), (89, 5104), (93, 5134), (96, 5149), (107, 5236), (112, 5278), (114, 5302), (126, 5401), (130, 5413), (131, 5431), (137, 5482), (141, 5503), (147, 5554), (148, 5563), (157, 5695), (166, 5755), (173, 5803), (181, 5854), (182, 5869), (208, 5989), (212, 6010), (218, 6046), (226, 6133), (230, 6160), (237, 6187), (258, 6340),

Gene: Phalaborwa_8 Start: 4642, Stop: 6411, Start Num: 9
Candidate Starts for Phalaborwa_8:
(Start: 9 @4642 has 2 MA's), (50, 4804), (68, 4918), (69, 4933), (72, 4987), (73, 4990), (74, 4996), (78, 5050), (83, 5083), (86, 5119), (87, 5131), (88, 5140), (89, 5146), (93, 5176), (96, 5191), (107, 5278), (112, 5320), (114, 5344), (126, 5443), (130, 5455), (131, 5473), (137, 5524), (141, 5545), (148, 5605), (157, 5737), (166, 5797), (173, 5845), (181, 5896), (196, 5992), (208, 6031), (212, 6052), (218, 6088), (226, 6175), (230, 6202), (237, 6229), (258, 6382),

Gene: Pharpay_11 Start: 3149, Stop: 4609, Start Num: 10
Candidate Starts for Pharpay_11:
(Start: 10 @3149 has 64 MA's), (Start: 28 @3200 has 1 MA's), (35, 3218), (58, 3371), (60, 3377), (69, 3440), (70, 3479), (83, 3590), (88, 3647), (98, 3707), (111, 3821), (141, 3902), (150, 3986), (152, 3995), (157, 4064), (163, 4100), (169, 4148), (170, 4160), (178, 4202), (221, 4460), (240, 4580), (242, 4595),

Gene: Phreeze_4 Start: 2133, Stop: 3842, Start Num: 18
Candidate Starts for Phreeze_4:
(8, 2094), (Start: 12 @2112 has 2 MA's), (Start: 18 @2133 has 9 MA's), (46, 2226), (48, 2232), (49, 2235), (54, 2295), (57, 2325), (63, 2343), (78, 2511), (79, 2514), (89, 2607), (91, 2625), (95, 2649), (97, 2655), (106, 2736), (123, 2874), (130, 2895), (133, 2940), (147, 3036), (148, 3045), (153, 3084), (156, 3126), (157, 3153), (159, 3162), (160, 3165), (175, 3267), (186, 3360), (192, 3402), (195, 3420), (212, 3510), (214, 3525), (224, 3621), (228, 3660), (229, 3663), (238, 3696), (246, 3741), (247, 3750), (251, 3768),

Gene: PhunaPhoke_11 Start: 3122, Stop: 4582, Start Num: 10
Candidate Starts for PhunaPhoke_11:
(Start: 10 @3122 has 64 MA's), (Start: 28 @3173 has 1 MA's), (35, 3191), (51, 3281), (58, 3344), (60, 3350), (69, 3413), (70, 3452), (83, 3563), (88, 3620), (98, 3680), (111, 3794), (141, 3875), (150, 3959), (152, 3968), (157, 4037), (163, 4073), (169, 4121), (170, 4133), (178, 4175), (221, 4433), (240, 4553), (242, 4568),

Gene: Potty_11 Start: 3127, Stop: 4587, Start Num: 10
Candidate Starts for Potty_11:
(Start: 10 @3127 has 64 MA's), (Start: 28 @3178 has 1 MA's), (35, 3196), (58, 3349), (60, 3355), (69, 3418), (70, 3457), (83, 3568), (88, 3625), (98, 3685), (111, 3799), (141, 3880), (150, 3964), (152, 3973), (157, 4042), (163, 4078), (169, 4126), (170, 4138), (178, 4180), (221, 4438), (242, 4573),

Gene: Poultress_10 Start: 2901, Stop: 4361, Start Num: 10
Candidate Starts for Poultress_10:
(Start: 10 @2901 has 64 MA's), (Start: 28 @2952 has 1 MA's), (35, 2970), (58, 3123), (60, 3129), (61, 3135), (69, 3192), (70, 3231), (74, 3255), (83, 3342), (88, 3399), (92, 3432), (98, 3459), (111, 3573), (141, 3654), (150, 3738), (152, 3747), (157, 3816), (163, 3852), (169, 3900), (170, 3912), (178, 3954), (221, 4212), (240, 4332), (242, 4347),

Gene: Prager_8 Start: 4612, Stop: 6378, Start Num: 10
Candidate Starts for Prager_8:
(Start: 10 @4612 has 64 MA's), (50, 4771), (68, 4885), (69, 4900), (72, 4954), (73, 4957), (74, 4963), (78, 5017), (83, 5050), (86, 5086), (87, 5098), (88, 5107), (89, 5113), (93, 5143), (96, 5158), (107, 5245), (112, 5287), (114, 5311), (126, 5410), (130, 5422), (131, 5440), (137, 5491), (141, 5512), (147, 5563), (148, 5572), (157, 5704), (166, 5764), (173, 5812), (181, 5863), (182, 5878), (208, 5998), (212, 6019), (218, 6055), (226, 6142), (230, 6169), (237, 6196), (258, 6349),

Gene: Predator_7 Start: 3130, Stop: 4839, Start Num: 18
Candidate Starts for Predator_7:
(Start: 18 @3130 has 9 MA's), (40, 3190), (46, 3223), (49, 3232), (54, 3292), (57, 3322), (63, 3340), (64, 3352), (78, 3508), (91, 3622), (95, 3646), (123, 3871), (125, 3877), (128, 3886), (130, 3892), (148, 4042), (153, 4081), (159, 4159), (171, 4249), (180, 4303), (192, 4399), (195, 4417), (211, 4504), (214, 4522), (224, 4618), (228, 4657), (229, 4660), (238, 4693), (246, 4738), (247, 4747), (251, 4765),

Gene: Puissant_5 Start: 2482, Stop: 4191, Start Num: 18
Candidate Starts for Puissant_5:
(Start: 18 @2482 has 9 MA's), (Start: 27 @2506 has 1 MA's), (46, 2575), (48, 2581), (49, 2584), (54, 2644), (63, 2692), (78, 2860), (79, 2863), (91, 2974), (95, 2998), (97, 3004), (99, 3013), (106, 3085), (123, 3223), (130, 3244), (133, 3289), (147, 3385), (148, 3394), (153, 3433), (155, 3466), (156, 3475), (157, 3502), (159, 3511), (160, 3514), (180, 3655), (182, 3676), (186, 3709), (193, 3757), (195, 3769), (203, 3817), (211, 3856), (214, 3874), (224, 3970), (228, 4009), (229, 4012), (238, 4045), (244, 4081), (247, 4099), (251, 4117),

Gene: Pywacket_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Pywacket_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Rachella_11 Start: 3133, Stop: 4593, Start Num: 10
Candidate Starts for Rachella_11:
(Start: 10 @3133 has 64 MA's), (Start: 28 @3184 has 1 MA's), (35, 3202), (58, 3355), (60, 3361), (70, 3463), (83, 3574), (88, 3631), (98, 3691), (111, 3805), (141, 3886), (150, 3970), (152, 3979), (157, 4048), (163, 4084), (169, 4132), (170, 4144), (178, 4186), (221, 4444), (240, 4564), (242, 4579),

Gene: Ranch_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Ranch_2:

(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (198, 1428), (204, 1458), (216, 1512), (217, 1518), (224, 1590),

Gene: RazorC_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for RazorC_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Riduram_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Riduram_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Rie18_11 Start: 3036, Stop: 4496, Start Num: 10
Candidate Starts for Rie18_11:
(Start: 10 @3036 has 64 MA's), (Start: 28 @3087 has 1 MA's), (35, 3105), (51, 3195), (58, 3258), (60, 3264), (69, 3327), (70, 3366), (83, 3477), (88, 3534), (93, 3570), (98, 3594), (111, 3708), (141, 3789), (148, 3849), (150, 3873), (152, 3882), (157, 3951), (163, 3987), (169, 4035), (170, 4047), (178, 4089), (188, 4179), (221, 4347), (242, 4482),

Gene: RikSengupta_11 Start: 3063, Stop: 4544, Start Num: 10
Candidate Starts for RikSengupta_11:
(Start: 10 @3063 has 64 MA's), (Start: 19 @3090 has 1 MA's), (Start: 30 @3120 has 39 MA's), (37, 3138), (54, 3282), (58, 3312), (60, 3318), (74, 3444), (77, 3462), (81, 3510), (83, 3531), (93, 3624), (98, 3648), (141, 3843), (147, 3894), (157, 4005), (161, 4023), (162, 4029), (163, 4041), (164, 4047), (169, 4089), (170, 4101), (184, 4197), (218, 4362), (219, 4365), (223, 4407),

Gene: Riparian_5 Start: 1624, Stop: 3276, Start Num: 31
Candidate Starts for Riparian_5:
(Start: 31 @1624 has 12 MA's), (51, 1732), (56, 1786), (57, 1795), (65, 1828), (76, 1936), (78, 1975), (84, 2029), (86, 2044), (88, 2065), (89, 2071), (91, 2089), (112, 2245), (114, 2269), (123, 2299), (135, 2371), (157, 2569), (161, 2587), (167, 2638), (186, 2761), (189, 2791), (198, 2845), (201, 2860), (207, 2887), (212, 2911), (218, 2947), (220, 2980), (224, 3016), (249, 3148), (260, 3259),

Gene: Rope_5 Start: 1623, Stop: 3275, Start Num: 31
Candidate Starts for Rope_5:
(Start: 31 @1623 has 12 MA's), (51, 1731), (57, 1794), (65, 1827), (76, 1935), (78, 1974), (84, 2028), (86, 2043), (88, 2064), (89, 2070), (91, 2088), (112, 2244), (114, 2268), (123, 2298), (135, 2370), (157, 2568), (161, 2586), (167, 2637), (186, 2760), (189, 2790), (198, 2844), (201, 2859), (207, 2886), (212, 2910), (218, 2946), (220, 2979), (224, 3015), (227, 3045), (249, 3147), (260, 3258),

Gene: Rota_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Rota_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (198, 1428), (216, 1512), (217, 1518), (224, 1590),

Gene: Rukungu_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Rukungu_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Rumi_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Rumi_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Sadboi_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Sadboi_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: SafetyGuy_11 Start: 3133, Stop: 4593, Start Num: 10
Candidate Starts for SafetyGuy_11:
(Start: 10 @3133 has 64 MA's), (Start: 28 @3184 has 1 MA's), (35, 3202), (58, 3355), (60, 3361), (70, 3463), (83, 3574), (88, 3631), (98, 3691), (111, 3805), (141, 3886), (150, 3970), (152, 3979), (157, 4048), (163, 4084), (169, 4132), (170, 4144), (178, 4186), (221, 4444), (240, 4564), (242, 4579),

Gene: Sampudon_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Sampudon_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Send513_4 Start: 1624, Stop: 3276, Start Num: 31
Candidate Starts for Send513_4:
(Start: 31 @1624 has 12 MA's), (51, 1732), (56, 1786), (57, 1795), (65, 1828), (76, 1936), (78, 1975), (84, 2029), (86, 2044), (88, 2065), (89, 2071), (91, 2089), (112, 2245), (114, 2269), (123, 2299), (135, 2371), (157, 2569), (161, 2587), (167, 2638), (186, 2761), (189, 2791), (198, 2845), (201, 2860), (207, 2887), (212, 2911), (218, 2947), (220, 2980), (224, 3016), (249, 3148), (260, 3259),

Gene: Shrew_46 Start: 20151, Stop: 21551, Start Num: 26
Candidate Starts for Shrew_46:
(11, 20106), (Start: 26 @20151 has 1 MA's), (53, 20301), (68, 20361), (78, 20493), (88, 20580), (89, 20586), (102, 20667), (103, 20670), (104, 20679), (149, 20907), (161, 21024), (164, 21051), (170, 21105), (172, 21111), (177, 21138), (194, 21255), (218, 21360), (224, 21423), (225, 21429), (232, 21477), (241, 21516),

Gene: Sienna_1 Start: 1, Stop: 1509, Start Num: 33
Candidate Starts for Sienna_1:
(Start: 33 @1 has 9 MA's), (39, 28), (47, 67), (63, 178), (67, 202), (78, 343), (87, 424), (89, 439), (91, 457), (93, 469), (112, 613), (113, 625), (122, 688), (123, 703), (126, 712), (132, 766), (140, 814), (141, 823), (148, 883), (156, 958), (157, 985), (199, 1261), (212, 1294), (216, 1315), (218, 1330), (222,

1363), (224, 1393), (235, 1453), (241, 1483),

Gene: SilentWarrior_10 Start: 2869, Stop: 4329, Start Num: 10
Candidate Starts for SilentWarrior_10:
(Start: 10 @2869 has 64 MA's), (Start: 28 @2920 has 1 MA's), (35, 2938), (51, 3028), (58, 3091), (60, 3097), (69, 3160), (70, 3199), (83, 3310), (88, 3367), (98, 3427), (111, 3541), (141, 3622), (150, 3706), (152, 3715), (157, 3784), (163, 3820), (169, 3868), (170, 3880), (178, 3922), (221, 4180), (240, 4300), (242, 4315),

Gene: SirHarley_7 Start: 4532, Stop: 6298, Start Num: 10
Candidate Starts for SirHarley_7:
(Start: 10 @4532 has 64 MA's), (50, 4691), (68, 4805), (69, 4820), (72, 4874), (73, 4877), (74, 4883), (78, 4937), (83, 4970), (86, 5006), (87, 5018), (88, 5027), (89, 5033), (93, 5063), (96, 5078), (107, 5165), (112, 5207), (114, 5231), (126, 5330), (130, 5342), (131, 5360), (137, 5411), (141, 5432), (147, 5483), (148, 5492), (157, 5624), (166, 5684), (173, 5732), (181, 5783), (182, 5798), (208, 5918), (212, 5939), (218, 5975), (226, 6062), (230, 6089), (237, 6116), (258, 6269),

Gene: Snakehole_12 Start: 2957, Stop: 4417, Start Num: 10
Candidate Starts for Snakehole_12:
(Start: 10 @2957 has 64 MA's), (Start: 28 @3008 has 1 MA's), (35, 3026), (58, 3179), (60, 3185), (69, 3248), (70, 3287), (83, 3398), (88, 3455), (98, 3515), (111, 3629), (114, 3659), (141, 3710), (150, 3794), (152, 3803), (157, 3872), (163, 3908), (169, 3956), (178, 4010), (219, 4232), (221, 4268), (242, 4403),

Gene: Sparcetus_11 Start: 2899, Stop: 4380, Start Num: 10
Candidate Starts for Sparcetus_11:
(Start: 10 @2899 has 64 MA's), (Start: 19 @2926 has 1 MA's), (Start: 30 @2956 has 39 MA's), (37, 2974), (54, 3118), (58, 3148), (60, 3154), (74, 3280), (77, 3298), (81, 3346), (83, 3367), (93, 3460), (98, 3484), (141, 3679), (157, 3841), (161, 3859), (162, 3865), (163, 3877), (164, 3883), (169, 3925), (170, 3937), (179, 3985), (184, 4033), (186, 4042), (218, 4198), (219, 4201), (223, 4243),

Gene: Stormer_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Stormer_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: SuperSonics_6 Start: 2774, Stop: 4441, Start Num: 21
Candidate Starts for SuperSonics_6:
(4, 2690), (5, 2699), (Start: 21 @2774 has 3 MA's), (49, 2882), (58, 2972), (62, 2984), (63, 2987), (75, 3104), (78, 3152), (81, 3164), (88, 3242), (89, 3248), (91, 3266), (101, 3314), (106, 3377), (112, 3422), (123, 3476), (127, 3488), (130, 3497), (134, 3548), (139, 3575), (143, 3599), (156, 3722), (157, 3749), (168, 3827), (182, 3923), (185, 3938), (189, 3986), (200, 4046), (211, 4103), (212, 4106), (231, 4265),

Gene: SuperheroCarly_8 Start: 4465, Stop: 6231, Start Num: 10
Candidate Starts for SuperheroCarly_8:
(Start: 10 @4465 has 64 MA's), (50, 4624), (68, 4738), (69, 4753), (72, 4807), (73, 4810), (74, 4816), (78, 4870), (83, 4903), (86, 4939), (87, 4951), (88, 4960), (89, 4966), (93, 4996), (96, 5011), (107, 5098), (112, 5140), (114, 5164), (126, 5263), (130, 5275), (131, 5293), (137, 5344), (141, 5365), (147, 5416), (148, 5425), (157, 5557), (166, 5617), (173, 5665), (181, 5716), (182, 5731), (208, 5851), (212, 5872), (218, 5908), (226, 5995), (230, 6022), (237, 6049), (258, 6202),

Gene: Suzy_1 Start: 1, Stop: 1509, Start Num: 33
Candidate Starts for Suzy_1:
(Start: 33 @1 has 9 MA's), (39, 28), (47, 67), (63, 178), (67, 202), (78, 343), (89, 439), (91, 457), (112, 613), (113, 625), (122, 688), (123, 703), (126, 712), (132, 766), (138, 805), (140, 814), (141, 823), (148, 883), (156, 958), (157, 985), (173, 1096), (212, 1294), (216, 1315), (218, 1330), (222, 1363), (224, 1393),

Gene: Tedro_11 Start: 3134, Stop: 4594, Start Num: 10
Candidate Starts for Tedro_11:
(Start: 10 @3134 has 64 MA's), (Start: 28 @3185 has 1 MA's), (35, 3203), (58, 3356), (60, 3362), (70, 3464), (83, 3575), (88, 3632), (98, 3692), (111, 3806), (141, 3887), (147, 3938), (150, 3971), (152, 3980), (157, 4049), (163, 4085), (169, 4133), (170, 4145), (178, 4187), (221, 4445), (240, 4565), (242, 4580),

Gene: Terapin_1 Start: 1, Stop: 1509, Start Num: 33
Candidate Starts for Terapin_1:
(Start: 33 @1 has 9 MA's), (39, 28), (47, 67), (63, 178), (67, 202), (78, 343), (89, 439), (91, 457), (112, 613), (113, 625), (122, 688), (123, 703), (126, 712), (132, 766), (140, 814), (141, 823), (148, 883), (156, 958), (157, 985), (199, 1261), (212, 1294), (216, 1315), (218, 1330), (222, 1363), (224, 1393), (235, 1453), (241, 1483),

Gene: Thoth_8 Start: 4600, Stop: 6366, Start Num: 10
Candidate Starts for Thoth_8:
(Start: 10 @4600 has 64 MA's), (50, 4759), (68, 4873), (69, 4888), (72, 4942), (73, 4945), (74, 4951), (78, 5005), (83, 5038), (86, 5074), (87, 5086), (88, 5095), (89, 5101), (93, 5131), (96, 5146), (107, 5233), (112, 5275), (114, 5299), (126, 5398), (130, 5410), (131, 5428), (137, 5479), (141, 5500), (147, 5551), (148, 5560), (157, 5692), (166, 5752), (173, 5800), (181, 5851), (182, 5866), (208, 5986), (212, 6007), (218, 6043), (226, 6130), (230, 6157), (237, 6184), (258, 6337),

Gene: Thumb_4 Start: 2133, Stop: 3842, Start Num: 18
Candidate Starts for Thumb_4:
(8, 2094), (Start: 12 @2112 has 2 MA's), (Start: 18 @2133 has 9 MA's), (46, 2226), (48, 2232), (49, 2235), (54, 2295), (57, 2325), (63, 2343), (78, 2511), (79, 2514), (89, 2607), (91, 2625), (95, 2649), (97, 2655), (106, 2736), (123, 2874), (130, 2895), (133, 2940), (147, 3036), (148, 3045), (153, 3084), (156, 3126), (157, 3153), (159, 3162), (160, 3165), (175, 3267), (186, 3360), (192, 3402), (195, 3420), (212, 3510), (214, 3525), (224, 3621), (228, 3660), (229, 3663), (238, 3696), (246, 3741), (247, 3750), (251, 3768),

Gene: Tiggy93_11 Start: 3133, Stop: 4593, Start Num: 10
Candidate Starts for Tiggy93_11:
(Start: 10 @3133 has 64 MA's), (Start: 28 @3184 has 1 MA's), (35, 3202), (58, 3355), (60, 3361), (70, 3463), (83, 3574), (88, 3631), (98, 3691), (111, 3805), (141, 3886), (147, 3937), (150, 3970), (152, 3979), (157, 4048), (163, 4084), (169, 4132), (170, 4144), (178, 4186), (221, 4444), (240, 4564), (242, 4579),

Gene: Tillicus_2 Start: 201, Stop: 1709, Start Num: 30
Candidate Starts for Tillicus_2:
(Start: 10 @144 has 64 MA's), (Start: 25 @186 has 1 MA's), (Start: 30 @201 has 39 MA's), (50, 300), (65, 396), (69, 429), (76, 504), (93, 672), (102, 723), (103, 726), (105, 765), (109, 792), (112, 816), (114, 840), (119, 879), (122, 891), (131, 915), (133, 942), (135, 951), (139, 975), (147, 1038), (148, 1047), (156, 1122), (160, 1161), (164, 1191), (212, 1488), (216, 1509), (224, 1587),

Gene: TinyMiny_11 Start: 2897, Stop: 4378, Start Num: 10

Candidate Starts for TinyMiny_11:
(Start: 10 @2897 has 64 MA's), (Start: 19 @2924 has 1 MA's), (Start: 30 @2954 has 39 MA's), (37, 2972), (54, 3116), (58, 3146), (60, 3152), (74, 3278), (77, 3296), (81, 3344), (83, 3365), (93, 3458), (98, 3482), (141, 3677), (157, 3839), (161, 3857), (162, 3863), (163, 3875), (164, 3881), (169, 3923), (170, 3935), (184, 4031), (186, 4040), (218, 4196), (219, 4199), (223, 4241),

Gene: Tongui_10 Start: 2960, Stop: 4420, Start Num: 10
Candidate Starts for Tongui_10:
(Start: 10 @2960 has 64 MA's), (Start: 28 @3011 has 1 MA's), (35, 3029), (58, 3182), (60, 3188), (70, 3290), (83, 3401), (88, 3458), (98, 3518), (111, 3632), (141, 3713), (152, 3806), (157, 3875), (163, 3911), (169, 3959), (170, 3971), (178, 4013), (215, 4214), (217, 4223), (221, 4271), (224, 4304), (242, 4406),

Gene: Triscuit_34 Start: 15622, Stop: 17043, Start Num: 13
Candidate Starts for Triscuit_34:
(Start: 13 @15622 has 2 MA's), (Start: 18 @15634 has 9 MA's), (50, 15766), (68, 15859), (78, 15991), (88, 16078), (96, 16129), (103, 16168), (104, 16177), (112, 16267), (138, 16324), (146, 16384), (148, 16402), (149, 16405), (164, 16549), (170, 16603), (176, 16621), (186, 16696), (192, 16738), (193, 16744), (210, 16804), (218, 16852), (224, 16915), (234, 16978), (243, 17023),

Gene: Troll4_8 Start: 4604, Stop: 6370, Start Num: 10
Candidate Starts for Troll4_8:
(Start: 10 @4604 has 64 MA's), (50, 4763), (68, 4877), (69, 4892), (72, 4946), (73, 4949), (74, 4955), (78, 5009), (83, 5042), (86, 5078), (87, 5090), (88, 5099), (89, 5105), (93, 5135), (96, 5150), (107, 5237), (112, 5279), (114, 5303), (126, 5402), (130, 5414), (131, 5432), (137, 5483), (141, 5504), (147, 5555), (148, 5564), (157, 5696), (166, 5756), (173, 5804), (181, 5855), (182, 5870), (208, 5990), (212, 6011), (218, 6047), (226, 6134), (230, 6161), (237, 6188), (258, 6341),

Gene: Visconti_8 Start: 4613, Stop: 6379, Start Num: 10
Candidate Starts for Visconti_8:
(Start: 10 @4613 has 64 MA's), (50, 4772), (68, 4886), (69, 4901), (72, 4955), (73, 4958), (74, 4964), (78, 5018), (83, 5051), (86, 5087), (87, 5099), (88, 5108), (89, 5114), (93, 5144), (96, 5159), (107, 5246), (112, 5288), (114, 5312), (126, 5411), (130, 5423), (131, 5441), (137, 5492), (141, 5513), (147, 5564), (148, 5573), (157, 5705), (166, 5765), (173, 5813), (181, 5864), (182, 5879), (208, 5999), (212, 6020), (218, 6056), (226, 6143), (230, 6170), (237, 6197), (258, 6350),

Gene: WaldoWhy_8 Start: 4606, Stop: 6372, Start Num: 10
Candidate Starts for WaldoWhy_8:
(Start: 10 @4606 has 64 MA's), (50, 4765), (68, 4879), (69, 4894), (72, 4948), (73, 4951), (74, 4957), (78, 5011), (83, 5044), (86, 5080), (87, 5092), (88, 5101), (89, 5107), (93, 5137), (96, 5152), (107, 5239), (112, 5281), (114, 5305), (126, 5404), (130, 5416), (131, 5434), (137, 5485), (141, 5506), (147, 5557), (148, 5566), (157, 5698), (166, 5758), (173, 5806), (181, 5857), (182, 5872), (208, 5992), (211, 6010), (212, 6013), (218, 6049), (226, 6136), (230, 6163), (237, 6190), (258, 6343),

Gene: Weiss13_5 Start: 1624, Stop: 3276, Start Num: 31
Candidate Starts for Weiss13_5:
(Start: 31 @1624 has 12 MA's), (51, 1732), (57, 1795), (65, 1828), (76, 1936), (78, 1975), (84, 2029), (86, 2044), (88, 2065), (89, 2071), (91, 2089), (112, 2245), (114, 2269), (123, 2299), (135, 2371), (157, 2569), (161, 2587), (167, 2638), (186, 2761), (189, 2791), (198, 2845), (201, 2860), (207, 2887), (212, 2911), (218, 2947), (220, 2980), (224, 3016), (249, 3148), (260, 3259),

Gene: WinnieLou_11 Start: 3198, Stop: 4646, Start Num: 10
Candidate Starts for WinnieLou_11:

(Start: 10 @3198 has 64 MA's), (Start: 28 @3237 has 1 MA's), (35, 3255), (51, 3345), (58, 3408), (60, 3414), (69, 3477), (70, 3516), (83, 3627), (88, 3684), (98, 3744), (111, 3858), (141, 3939), (150, 4023), (152, 4032), (157, 4101), (163, 4137), (169, 4185), (170, 4197), (178, 4239), (221, 4497), (242, 4632),

Gene: Wojtek_2 Start: 201, Stop: 1709, Start Num: 30
Candidate Starts for Wojtek_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (50, 300), (54, 336), (65, 396), (69, 429), (75, 498), (76, 504), (81, 558), (83, 579), (93, 672), (96, 687), (102, 723), (103, 726), (105, 765), (109, 792), (112, 816), (114, 840), (119, 879), (122, 891), (131, 915), (133, 942), (135, 951), (139, 975), (147, 1038), (156, 1122), (160, 1161), (163, 1185), (164, 1191), (212, 1488), (216, 1509), (224, 1587),

Gene: Wollypog_1 Start: 1, Stop: 1452, Start Num: 23
Candidate Starts for Wollypog_1:
(Start: 23 @1 has 1 MA's), (43, 67), (56, 166), (75, 307), (78, 361), (81, 373), (83, 394), (93, 487), (98, 511), (111, 625), (112, 631), (139, 694), (141, 706), (151, 796), (157, 868), (167, 937), (170, 964), (184, 1051), (187, 1069), (213, 1186),

Gene: Xenia2_2 Start: 204, Stop: 1715, Start Num: 30
Candidate Starts for Xenia2_2:
(Start: 30 @204 has 39 MA's), (56, 357), (58, 369), (69, 432), (71, 474), (75, 501), (76, 507), (87, 630), (88, 639), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (133, 945), (140, 981), (148, 1050), (156, 1125), (157, 1152), (160, 1164), (161, 1170), (167, 1221), (198, 1428), (202, 1446), (212, 1494), (216, 1515), (224, 1593), (227, 1623),

Gene: Yelo_4 Start: 1624, Stop: 3276, Start Num: 31
Candidate Starts for Yelo_4:
(Start: 31 @1624 has 12 MA's), (51, 1732), (57, 1795), (65, 1828), (76, 1936), (78, 1975), (84, 2029), (86, 2044), (88, 2065), (89, 2071), (91, 2089), (112, 2245), (114, 2269), (123, 2299), (135, 2371), (157, 2569), (161, 2587), (167, 2638), (186, 2761), (189, 2791), (198, 2845), (201, 2860), (207, 2887), (212, 2911), (218, 2947), (220, 2980), (224, 3016), (227, 3046), (249, 3148), (260, 3259),

Gene: Yikes_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Yikes_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Zany_2 Start: 201, Stop: 1712, Start Num: 30
Candidate Starts for Zany_2:
(Start: 10 @144 has 64 MA's), (Start: 30 @201 has 39 MA's), (42, 243), (69, 432), (76, 507), (93, 675), (102, 726), (103, 729), (105, 768), (109, 795), (112, 819), (114, 843), (122, 894), (131, 918), (133, 945), (135, 954), (147, 1041), (156, 1125), (160, 1164), (163, 1188), (164, 1194), (216, 1512), (217, 1518), (224, 1590),

Gene: Zenon_5 Start: 1624, Stop: 3276, Start Num: 31
Candidate Starts for Zenon_5:
(Start: 31 @1624 has 12 MA's), (51, 1732), (57, 1795), (65, 1828), (76, 1936), (78, 1975), (84, 2029), (86, 2044), (88, 2065), (89, 2071), (91, 2089), (112, 2245), (114, 2269), (123, 2299), (135, 2371), (157, 2569), (161, 2587), (167, 2638), (186, 2761), (189, 2791), (198, 2845), (201, 2860), (207, 2887), (212, 2911), (218, 2947), (220, 2980), (224, 3016), (249, 3148), (260, 3259),