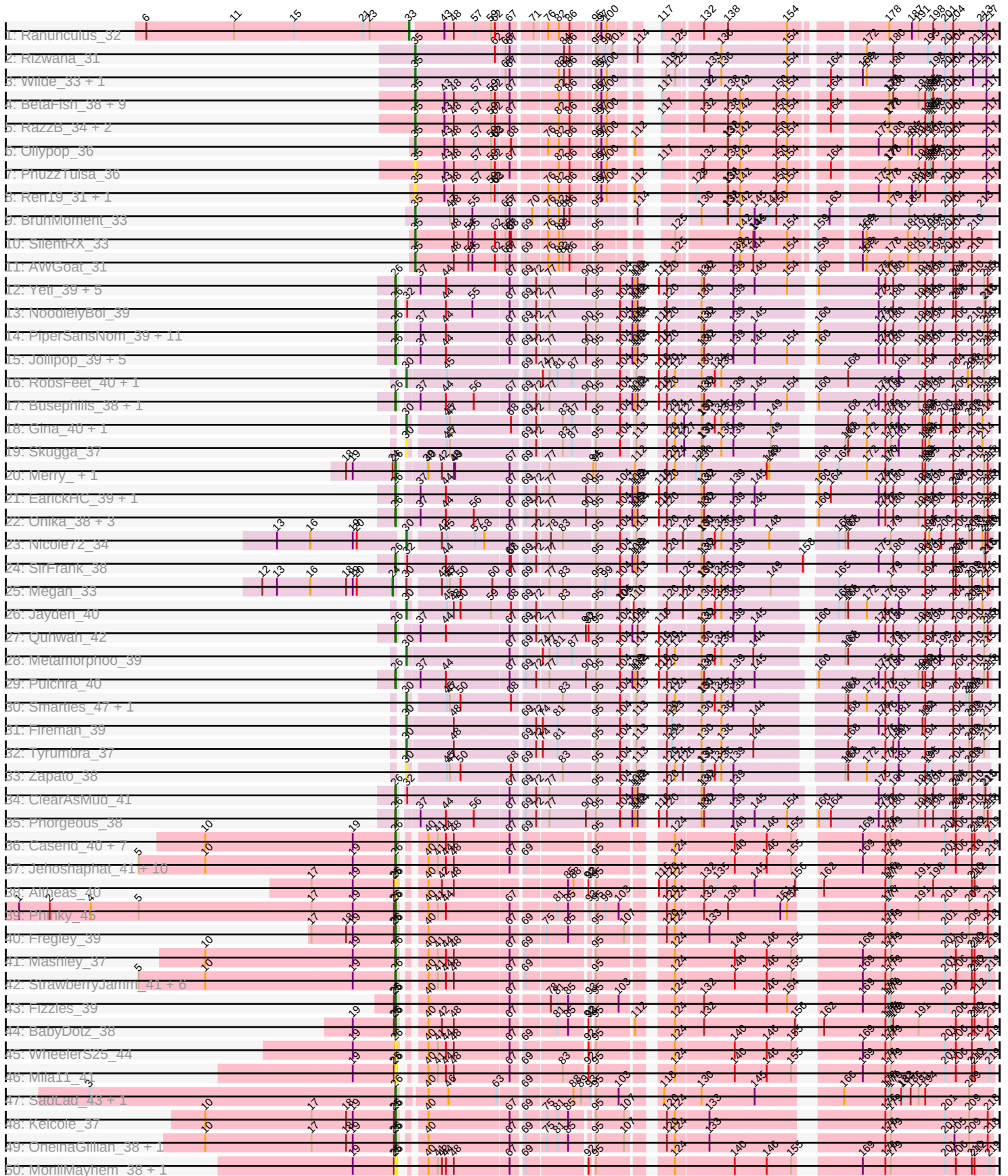
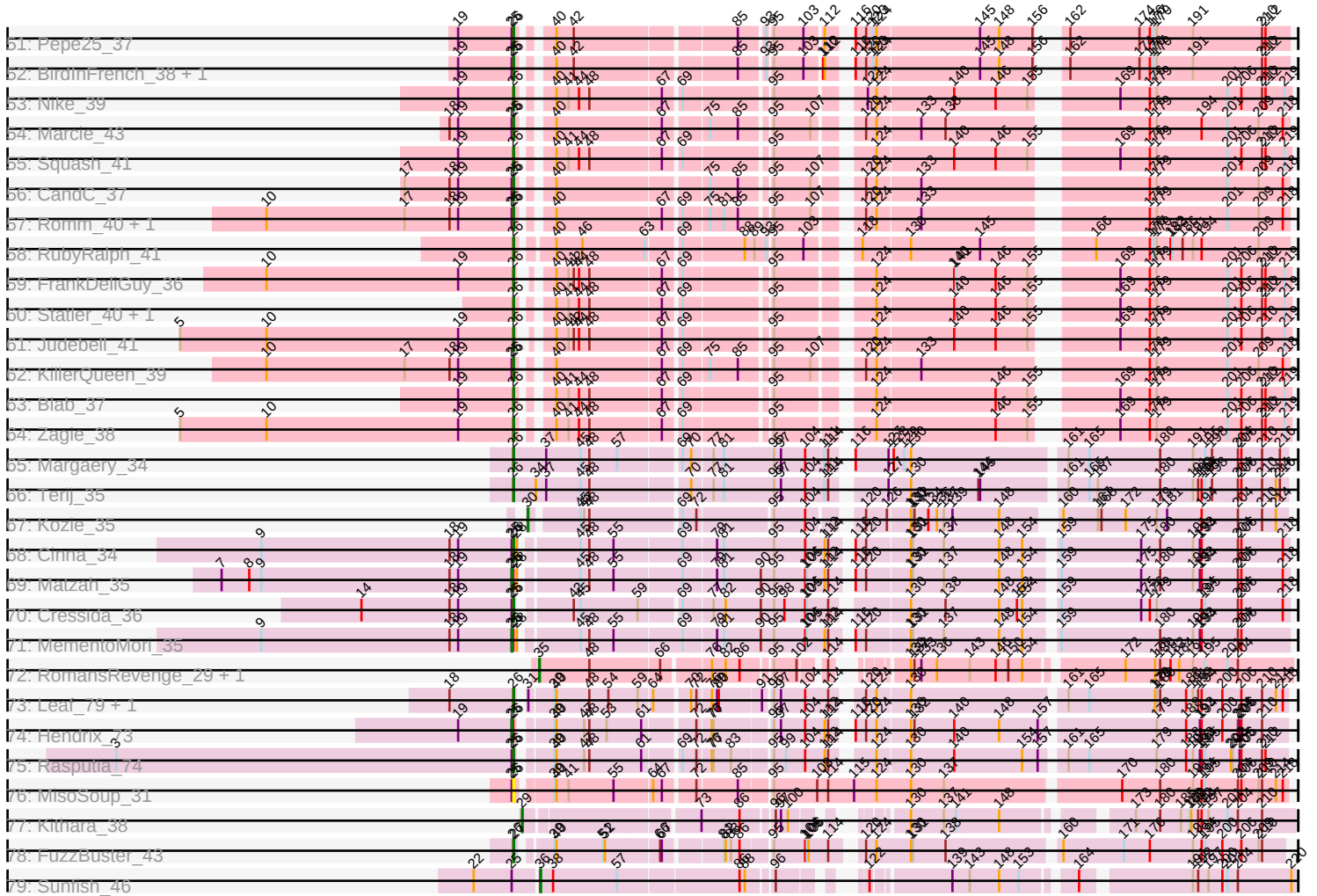


Pham 280160



Pham 280160



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 280160 Report

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

Pham number 280160 has 153 members, 24 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_32
- Track 2 : Rizwana_31
- Track 3 : Wilde_33, Tank_33
- Track 4 : BetaFish_38, Pointis_38, Beagle_39, Pureglobe5_40, MellowYellow_35, DogYard_38, Hive_38, Odyssey395_40, Popstraw_36, Kubulix_39
- Track 5 : RazzB_34, Forrestell_35, NyleyClemson_34
- Track 6 : Ollypop_36
- Track 7 : PhuzzTulsa_36
- Track 8 : Ren19_31, Nikan_33
- Track 9 : BruhMoment_33
- Track 10 : SilentRX_33
- Track 11 : AWGoat_31
- Track 12 : Yeti_39, Glorp_40, Honeyfin_40, Jefe_39, Selwyn23_40, Piperis_39
- Track 13 : NoodlelyBoi_39
- Track 14 : PiperSansNom_39, Ganandorf_38, Hermeonysus_38, BrazzalePHS_38, Lucretia_39, BeagleBug_38, Crisis_40, PhedwardCullen_37, CrazyRich_38, PierreOrion_39, Scumberland_40, Rockwell_38
- Track 15 : Jollipop_39, Paschalis_38, Ramiel05_38, Cranjis_40, Phrancesco_39, Kowalski_38
- Track 16 : RobsFeet_40, Shrubaron_39
- Track 17 : Busephilis_38, LittleFortune_40
- Track 18 : Gina_40, Teamocil_40
- Track 19 : Skugga_37
- Track 20 : Merry_, Sunny_
- Track 21 : EarickHC_39, KaiHaiDragon_39
- Track 22 : Onika_38, Savannah_38, Antares_39, Shotgun_38
- Track 23 : Nicole72_34
- Track 24 : SirFrank_38
- Track 25 : Megan_33
- Track 26 : Jayden_40
- Track 27 : Quhwah_42
- Track 28 : Metamorphoo_39
- Track 29 : Pulchra_40
- Track 30 : Smarties_47, Ariadne_47
- Track 31 : Fireman_39
- Track 32 : Tyumbra_37
- Track 33 : Zapato_38

- Track 34 : ClearAsMud_41
- Track 35 : Phorgeous_38
- Track 36 : Casend_40, Phabia_39, Wayne3_40, Lonelysoil_38, Viceroy_37, Rudy_37, Quammi_37, Teehee_40
- Track 37 : Jehoshaphat_41, Grassboy_40, DonaldDuck_38, SallyK_40, Wheelie_38, Llemily_38, Tissue_39, Kyva_41, Zhafia_41, Namago_39, Sillytadpoles_39
- Track 38 : Altheas_40
- Track 39 : Phinky_45
- Track 40 : Fregley_39
- Track 41 : Mashley_37
- Track 42 : StrawberryJamm_41, Gazebo_37, Rowlf_35, Hyperion_38, EverythinBagel_38, SlySloth_41, AluminumJesus_37
- Track 43 : Fizzles_39
- Track 44 : BabyDotz_38
- Track 45 : WheelerS25_44
- Track 46 : Mila11_41
- Track 47 : SadLad_43, Fransoyer_41
- Track 48 : Kelcole_37
- Track 49 : OneinaGillian_38, RobinRose_40
- Track 50 : MorillMayhem_38, BaconCheese_42
- Track 51 : Pepe25_37
- Track 52 : BirdInFrench_38, Wilca_38
- Track 53 : Nike_39
- Track 54 : Marcie_43
- Track 55 : Squash_41
- Track 56 : CandC_37
- Track 57 : Romm_40, Tempo_38
- Track 58 : RubyRalph_41
- Track 59 : FrankDeliGuy_36
- Track 60 : Statler_40, Mentos_43
- Track 61 : Judebell_41
- Track 62 : KillerQueen_39
- Track 63 : Blab_37
- Track 64 : Zagie_38
- Track 65 : Margaery_34
- Track 66 : Terij_35
- Track 67 : Kozie_35
- Track 68 : Cinna_34
- Track 69 : Matzah_35
- Track 70 : Cressida_36
- Track 71 : MementoMori_35
- Track 72 : RomansRevenge_29, Boise_28
- Track 73 : Leaf_79, Dewdrop_79
- Track 74 : Hendrix_73
- Track 75 : Rasputia_74
- Track 76 : MisoSoup_31
- Track 77 : Kithara_38
- Track 78 : FuzzBuster_43
- Track 79 : Sunfish_46

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

The start number called the most often in the published annotations is 26, it was called in 93 of the 129 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altheas_40, AluminumJesus_37, Antares_39, BabyDotz_38, BaconCheese_42, BeagleBug_38, BirdInFrench_38, Blab_37, BrazzalePHS_38, Busephilis_38, CandC_37, Casend_40, Cinna_34, ClearAsMud_41, Cranjis_40, CrazyRich_38, Cressida_36, Crisis_40, Dewdrop_79, DonaldDuck_38, EarickHC_39, EverythinBagel_38, Fizzles_39, FrankDeliGuy_36, Fransoyer_41, Fregley_39, FuzzBuster_43, Ganandorf_38, Gazebo_37, Glorp_40, Grassboy_40, Hermeonysus_38, Honeyfin_40, Hyperion_38, Jefe_39, Jehoshaphat_41, Jollipop_39, Judebell_41, KaiHaiDragon_39, Kelcolé_37, KillerQueen_39, Kowalski_38, Kyva_41, Leaf_79, LittleFortune_40, Llemily_38, Lonelysoil_38, Lucretia_39, Marcie_43, Margaery_34, Mashley_37, Mentos_43, Merry_, Mila11_41, MisoSoup_31, MorilMayhem_38, Namago_39, Nike_39, NoodlelyBoi_39, OneinaGillian_38, Onika_38, Paschalis_38, Pepe25_37, Phabia_39, PhedwardCullen_37, Phinky_45, Phorgeous_38, Phrancesco_39, PierreOrion_39, PiperSansNom_39, Piperis_39, Pulchra_40, Quammi_37, Quhwah_42, Ramiel05_38, Rasputia_74, RobinRose_40, Rockwell_38, Romm_40, Rowlf_35, RubyRalph_41, Rudy_37, SadLad_43, SallyK_40, Savannah_38, Scumberland_40, Selwyn23_40, Shotgun_38, Sillytadpoles_39, SirFrank_38, SlySloth_41, Squash_41, Statler_40, StrawberryJamm_41, Sunny_, Teehee_40, Tempo_38, Terij_35, Tissue_39, Viceroy_37, Wayne3_40, WheelerS25_44, Wheelie_38, Wilca_38, Yeti_39, Zagie_38, Zhafia_41,

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

- Hendrix_73, Matzah_35, MementoMori_35,

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

- AWGoat_31, Ariadne_47, Beagle_39, BetaFish_38, Boise_28, BruhMoment_33, DogYard_38, Fireman_39, Forrestell_35, Gina_40, Hive_38, Jayden_40, Kithara_38, Kozie_35, Kubulix_39, Megan_33, MellowYellow_35, Metamorphoo_39, Nicole72_34, Nikan_33, NyleyClemson_34, Odyssey395_40, Ollypop_36, PhuzzTulsa_36, Pointis_38, Popstraw_36, Pureglobe5_40, Ranunculus_32, RazzB_34, Ren19_31, Rizwana_31, RobsFeet_40, RomansRevenge_29, Shrubaron_39, SilentRX_33, Skugga_37, Smarties_47, Sunfish_46, Tank_33, Teamocil_40, Tyrumbra_37, Wilde_33, Zapato_38,

Summary by start number:

Start 24:

- Found in 3 of 153 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 129
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Megan_33 (EC),

Start 25:

- Found in 27 of 153 (17.6%) of genes in pham
- Manual Annotations of this start: 3 of 129
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Hendrix_73 (GC), Matzah_35 (EI), MementoMori_35 (EI),

Start 26:

- Found in 110 of 153 (71.9%) of genes in pham
- Manual Annotations of this start: 93 of 129
- Called 97.3% of time when present
- Phage (with cluster) where this start called: Altheas_40 (EG), AluminumJesus_37 (EG), Antares_39 (EC), BabyDotz_38 (EG), BaconCheese_42 (EG), BeagleBug_38 (EC), BirdInFrench_38 (EG), Blab_37 (EG), BrazzalePHS_38 (EC), Busephilis_38 (EC), CandC_37 (EG), Casend_40 (EG), Cinna_34 (EI), ClearAsMud_41 (EC), Cranjis_40 (EC), CrazyRich_38 (EC), Cressida_36 (EI), Crisis_40 (EC), Dewdrop_79 (GC), DonaldDuck_38 (EG), EarickHC_39 (EC), EverythinBagel_38 (EG), Fizzles_39 (EG), FrankDeliGuy_36 (EG), Fransoyer_41 (EG), Fregley_39 (EG), FuzzBuster_43 (singleton), Ganandorf_38 (EC), Gazebo_37 (EG), Glorp_40 (EC), Grassboy_40 (EG), Hermeonysus_38 (EC), Honeyfin_40 (EC), Hyperion_38 (EG), Jefe_39 (EC), Jehoshaphat_41 (EG), Jollipop_39 (EC), Judebell_41 (EG), KaiHaiDragon_39 (EC), Kelcole_37 (EG), KillerQueen_39 (EG), Kowalski_38 (EC), Kyva_41 (EG), Leaf_79 (GC), LittleFortune_40 (EC), Llemily_38 (EG), Lonelysoil_38 (EG), Lucretia_39 (EC), Marcie_43 (EG), Margaery_34 (EI), Mashley_37 (EG), Mentos_43 (EG), Merry_ (EC), Mila11_41 (EG), MisoSoup_31 (UNK), MorillMayhem_38 (EG), Namago_39 (EG), Nike_39 (EG), NoodlelyBoi_39 (EC), OneinaGillian_38 (EG), Onika_38 (EC), Paschalis_38 (EC), Pepe25_37 (EG), Phabia_39 (EG), PhedwardCullen_37 (EC), Phinky_45 (EG), Phorgeous_38 (EC), Phrancesco_39 (EC), PierreOrion_39 (EC), PiperSansNom_39 (EC), Piperis_39 (EC), Pulchra_40 (EC), Quammi_37 (EG), Quhwah_42 (EC), Ramiel05_38 (EC), Rasputia_74 (GC), RobinRose_40 (EG), Rockwell_38 (EC), Romm_40 (EG), Rowlf_35 (EG), RubyRalph_41 (EG), Rudy_37 (EG), SadLad_43 (EG), SallyK_40 (EG), Savannah_38 (EC), Scumberland_40 (EC), Selwyn23_40 (EC), Shotgun_38 (EC), Sillytadpoles_39 (EG), SirFrank_38 (EC), SlySloth_41 (EG), Squash_41 (EG), Statler_40 (EG), StrawberryJamm_41 (EG), Sunny_ (EC), Teehee_40 (EG), Tempo_38 (EG), Terij_35 (EI), Tissue_39 (EG), Viceroy_37 (EG), Wayne3_40 (EG), WheelersS25_44 (EG), Wheelie_38 (EG), Wilca_38 (EG), Yeti_39 (EC), Zagie_38 (EG), Zhafia_41 (EG),

Start 29:

- Found in 1 of 153 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 129
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kithara_38 (singleton),

Start 30:

- Found in 15 of 153 (9.8%) of genes in pham
- Manual Annotations of this start: 12 of 129
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Ariadne_47 (EC), Fireman_39 (EC), Gina_40 (EC), Jayden_40 (EC), Kozie_35 (EI), Metamorphoo_39 (EC), Nicole72_34 (EC), RobsFeet_40 (EC), Shrubaron_39 (EC), Skugga_37 (EC), Smarties_47 (EC), Teamocil_40 (EC), Tyumbra_37 (EC), Zapato_38 (EC),

Start 33:

- Found in 1 of 153 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 129
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ranunculus_32 (AP),

Start 35:

- Found in 25 of 153 (16.3%) of genes in pham
- Manual Annotations of this start: 17 of 129
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_31 (AP4), Beagle_39 (AP2), BetaFish_38 (AP2), Boise_28 (FT), BruhMoment_33 (AP3), DogYard_38 (AP2), Forrestell_35 (AP2), Hive_38 (AP2), Kubulix_39 (AP2), MellowYellow_35 (AP2), Nikan_33 (AP2), NyleyClemson_34 (AP2), Odyssey395_40 (AP2), Ollypop_36 (AP2), PhuzzTulsa_36 (AP2), Pointis_38 (AP2), Popstraw_36 (AP2), Pureglobe5_40 (AP2), RazzB_34 (AP2), Ren19_31 (AP2), Rizwana_31 (AP1), RomansRevenge_29 (FT), SilentRX_33 (AP4), Tank_33 (AP1), Wilde_33 (AP1),

Start 36:

- Found in 1 of 153 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 129
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sunfish_46 (singleton),

Summary by clusters:

There are 12 clusters represented in this pham: singleton, EI, AP2, AP3, EG, AP1, AP4, AP, GC, EC, FT, UNK,

Info for manual annotations of cluster AP:

- Start number 33 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 35 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 35 was manually annotated 10 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 35 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 35 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster EC:

- Start number 24 was manually annotated 1 time for cluster EC.
- Start number 26 was manually annotated 35 times for cluster EC.
- Start number 30 was manually annotated 11 times for cluster EC.

Info for manual annotations of cluster EG:

- Start number 26 was manually annotated 50 times for cluster EG.

Info for manual annotations of cluster EI:

- Start number 25 was manually annotated 2 times for cluster EI.
- Start number 26 was manually annotated 4 times for cluster EI.
- Start number 30 was manually annotated 1 time for cluster EI.

Info for manual annotations of cluster FT:

- Start number 35 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster GC:

- Start number 25 was manually annotated 1 time for cluster GC.
- Start number 26 was manually annotated 3 times for cluster GC.

Gene Information:

Gene: AWGoat_31 Start: 27403, Stop: 28518, Start Num: 35

Candidate Starts for AWGoat_31:

(Start: 35 @27403 has 17 MA's), (48, 27490), (54, 27523), (55, 27532), (62, 27577), (65, 27595), (67, 27604), (69, 27628), (76, 27673), (82, 27697), (83, 27706), (86, 27721), (95, 27763), (125, 27877), (139, 27991), (142, 28006), (144, 28033), (154, 28108), (159, 28147), (169, 28234), (172, 28243), (178, 28294), (184, 28336), (191, 28357), (198, 28390), (201, 28414), (204, 28432), (210, 28474),

Gene: Altheas_40 Start: 31029, Stop: 32177, Start Num: 26

Candidate Starts for Altheas_40:

(17, 30843), (19, 30933), (Start: 25 @31026 has 3 MA's), (Start: 26 @31029 has 93 MA's), (40, 31062), (42, 31092), (48, 31119), (85, 31353), (88, 31365), (92, 31386), (93, 31389), (95, 31395), (116, 31497), (120, 31515), (124, 31533), (132, 31593), (135, 31623), (145, 31704), (156, 31794), (162, 31809), (176, 31944), (177, 31950), (179, 31956), (191, 32016), (198, 32049), (210, 32130), (212, 32136),

Gene: AluminumJesus_37 Start: 30626, Stop: 31777, Start Num: 26

Candidate Starts for AluminumJesus_37:

(5, 30050), (10, 30200), (19, 30530), (Start: 26 @30626 has 93 MA's), (40, 30659), (41, 30680), (44, 30698), (48, 30716), (67, 30836), (69, 30860), (95, 30992), (124, 31130), (140, 31259), (146, 31328), (155, 31382), (169, 31490), (176, 31541), (179, 31553), (201, 31670), (206, 31694), (210, 31727), (212, 31733), (219, 31766),

Gene: Antares_39 Start: 27860, Stop: 29062, Start Num: 26

Candidate Starts for Antares_39:

(Start: 26 @27860 has 93 MA's), (37, 27896), (44, 27953), (56, 28016), (67, 28088), (69, 28112), (72, 28136), (77, 28160), (90, 28241), (95, 28262), (104, 28316), (109, 28343), (112, 28349), (114, 28355), (116, 28373), (120, 28391), (130, 28460), (132, 28466), (139, 28529), (145, 28574), (160, 28685), (175, 28820), (176, 28835), (180, 28853), (191, 28907), (194, 28922), (198, 28940), (206, 28988), (210, 29021), (215, 29048), (218, 29054),

Gene: Ariadne_47 Start: 29437, Stop: 30585, Start Num: 30

Candidate Starts for Ariadne_47:

(Start: 30 @29437 has 12 MA's), (45, 29512), (47, 29518), (50, 29542), (68, 29653), (83, 29752), (95, 29812), (104, 29866), (113, 29893), (120, 29929), (124, 29947), (130, 29995), (131, 29998), (134, 30025), (136, 30037), (139, 30064), (167, 30271), (168, 30277), (172, 30319), (176, 30361), (181, 30391), (194, 30448), (204, 30508), (207, 30535), (209, 30541), (210, 30547),

Gene: BabyDotz_38 Start: 31396, Stop: 32544, Start Num: 26

Candidate Starts for BabyDotz_38:

(19, 31300), (Start: 25 @31393 has 3 MA's), (Start: 26 @31396 has 93 MA's), (40, 31429), (42, 31459), (48, 31486), (67, 31606), (81, 31696), (85, 31720), (92, 31753), (93, 31756), (95, 31762), (112, 31840), (124, 31900), (132, 31960), (156, 32161), (162, 32176), (176, 32311), (177, 32317), (179, 32323), (180, 32329), (191, 32383), (206, 32464), (210, 32497), (212, 32503), (218, 32533),

Gene: BaconCheese_42 Start: 32018, Stop: 33163, Start Num: 26

Candidate Starts for BaconCheese_42:

(19, 31922), (Start: 25 @32015 has 3 MA's), (Start: 26 @32018 has 93 MA's), (40, 32045), (41, 32066), (42, 32075), (44, 32084), (48, 32102), (67, 32222), (69, 32246), (92, 32369), (95, 32378), (124, 32516), (140, 32645), (146, 32714), (155, 32768), (169, 32876), (176, 32927), (179, 32939), (201, 33056), (206, 33080), (210, 33113), (212, 33119), (219, 33152),

Gene: Beagle_39 Start: 27630, Stop: 28763, Start Num: 35

Candidate Starts for Beagle_39:

(Start: 35 @27630 has 17 MA's), (43, 27696), (48, 27717), (57, 27765), (59, 27795), (62, 27804), (67, 27831), (82, 27924), (86, 27948), (95, 27990), (97, 28002), (100, 28014), (117, 28074), (132, 28152), (138, 28206), (142, 28233), (150, 28311), (154, 28335), (164, 28404), (177, 28518), (178, 28521), (180, 28530), (191, 28584), (194, 28599), (195, 28605), (197, 28611), (198, 28617), (201, 28641), (204, 28659), (217, 28734),

Gene: BeagleBug_38 Start: 27641, Stop: 28843, Start Num: 26

Candidate Starts for BeagleBug_38:

(Start: 26 @27641 has 93 MA's), (37, 27677), (44, 27734), (67, 27869), (69, 27893), (72, 27917), (77, 27941), (90, 28022), (95, 28043), (104, 28097), (109, 28124), (112, 28130), (114, 28136), (116, 28154), (120, 28172), (130, 28241), (132, 28247), (139, 28310), (145, 28355), (160, 28466), (175, 28601), (176, 28616), (180, 28634), (191, 28688), (194, 28703), (198, 28721), (206, 28769), (210, 28802), (215, 28829), (218, 28835),

Gene: BetaFish_38 Start: 27824, Stop: 28957, Start Num: 35

Candidate Starts for BetaFish_38:

(Start: 35 @27824 has 17 MA's), (43, 27890), (48, 27911), (57, 27959), (59, 27989), (62, 27998), (67, 28025), (82, 28118), (86, 28142), (95, 28184), (97, 28196), (100, 28208), (117, 28268), (132, 28346), (138, 28400), (142, 28427), (150, 28505), (154, 28529), (164, 28598), (177, 28712), (178, 28715), (180, 28724), (191, 28778), (194, 28793), (195, 28799), (197, 28805), (198, 28811), (201, 28835), (204, 28853), (217, 28928),

Gene: BirdInFrench_38 Start: 29203, Stop: 30351, Start Num: 26

Candidate Starts for BirdInFrench_38:

(19, 29107), (Start: 25 @29200 has 3 MA's), (Start: 26 @29203 has 93 MA's), (40, 29236), (42, 29266), (85, 29527), (93, 29563), (95, 29569), (103, 29620), (110, 29644), (112, 29647), (116, 29671), (120, 29689), (123, 29701), (124, 29707), (145, 29878), (148, 29911), (156, 29968), (162, 29983), (174, 30100), (176, 30118), (177, 30124), (179, 30130), (191, 30190), (210, 30304), (212, 30310),

Gene: Blab_37 Start: 30539, Stop: 31690, Start Num: 26

Candidate Starts for Blab_37:

(19, 30443), (Start: 26 @30539 has 93 MA's), (40, 30572), (41, 30593), (44, 30611), (48, 30629), (67, 30749), (69, 30773), (95, 30905), (124, 31043), (146, 31241), (155, 31295), (169, 31403), (176, 31454), (179, 31466), (201, 31583), (206, 31607), (210, 31640), (212, 31646), (219, 31679),

Gene: Boise_28 Start: 24847, Stop: 25974, Start Num: 35

Candidate Starts for Boise_28:

(Start: 35 @24847 has 17 MA's), (48, 24934), (66, 25045), (76, 25117), (82, 25141), (86, 25165), (95, 25207), (102, 25246), (114, 25279), (130, 25351), (132, 25357), (133, 25369), (136, 25396), (143, 25453), (146, 25498), (150, 25519), (154, 25543), (172, 25693), (178, 25744), (180, 25753), (182, 25771), (184, 25786), (191, 25807), (195, 25828), (201, 25864), (204, 25882),

Gene: BrazzalePHS_38 Start: 27655, Stop: 28857, Start Num: 26

Candidate Starts for BrazzalePHS_38:

(Start: 26 @27655 has 93 MA's), (37, 27691), (44, 27748), (67, 27883), (69, 27907), (72, 27931), (77, 27955), (90, 28036), (95, 28057), (104, 28111), (109, 28138), (112, 28144), (114, 28150), (116, 28168), (120, 28186), (130, 28255), (132, 28261), (139, 28324), (145, 28369), (160, 28480), (175, 28615), (176, 28630), (180, 28648), (191, 28702), (194, 28717), (198, 28735), (206, 28783), (210, 28816), (215, 28843), (218, 28849),

Gene: BruhMoment_33 Start: 27211, Stop: 28335, Start Num: 35

Candidate Starts for BruhMoment_33:

(Start: 35 @27211 has 17 MA's), (47, 27289), (48, 27298), (55, 27340), (65, 27403), (67, 27412), (70, 27451), (76, 27481), (82, 27505), (84, 27517), (86, 27529), (95, 27571), (114, 27643), (130, 27727), (137, 27784), (138, 27787), (142, 27814), (145, 27844), (147, 27874), (150, 27892), (163, 27982), (179, 28105), (185, 28147), (201, 28222), (204, 28240), (213, 28303),

Gene: Busephilis_38 Start: 27596, Stop: 28798, Start Num: 26

Candidate Starts for Busephilis_38:

(Start: 26 @27596 has 93 MA's), (37, 27632), (44, 27689), (56, 27752), (67, 27824), (69, 27848), (72, 27872), (77, 27896), (90, 27977), (95, 27998), (104, 28052), (109, 28079), (112, 28085), (114, 28091), (116, 28109), (120, 28127), (130, 28196), (132, 28202), (139, 28265), (145, 28310), (154, 28382), (160, 28421), (175, 28556), (176, 28571), (180, 28589), (191, 28643), (194, 28658), (198, 28676), (206, 28724), (210, 28757), (215, 28784), (218, 28790),

Gene: CandC_37 Start: 29528, Stop: 30676, Start Num: 26

Candidate Starts for CandC_37:

(17, 29342), (18, 29417), (19, 29432), (Start: 25 @29525 has 3 MA's), (Start: 26 @29528 has 93 MA's), (40, 29561), (75, 29804), (85, 29852), (95, 29894), (107, 29957), (120, 30014), (124, 30032), (133, 30104), (176, 30443), (179, 30455), (201, 30572), (209, 30623), (218, 30665),

Gene: Casend_40 Start: 31178, Stop: 32329, Start Num: 26

Candidate Starts for Casend_40:

(10, 30752), (19, 31082), (Start: 26 @31178 has 93 MA's), (40, 31211), (41, 31232), (44, 31250), (48, 31268), (67, 31388), (69, 31412), (95, 31544), (124, 31682), (140, 31811), (146, 31880), (155, 31934), (169, 32042), (176, 32093), (179, 32105), (201, 32222), (206, 32246), (210, 32279), (212, 32285), (219, 32318),

Gene: Cinna_34 Start: 27575, Stop: 28801, Start Num: 26

Candidate Starts for Cinna_34:

(9, 27140), (18, 27464), (19, 27479), (Start: 25 @27572 has 3 MA's), (Start: 26 @27575 has 93 MA's), (28, 27581), (45, 27668), (48, 27683), (55, 27725), (69, 27836), (79, 27890), (81, 27902), (95, 27986), (104, 28040), (112, 28073), (114, 28079), (116, 28103), (120, 28121), (130, 28190), (131, 28193), (137, 28244), (148, 28337), (154, 28376), (159, 28418), (175, 28556), (180, 28589), (191, 28643), (193, 28655), (194, 28658), (204, 28718), (206, 28724), (218, 28790),

Gene: ClearAsMud_41 Start: 27780, Stop: 28979, Start Num: 26

Candidate Starts for ClearAsMud_41:

(Start: 26 @27780 has 93 MA's), (32, 27792), (67, 28008), (69, 28032), (72, 28056), (77, 28080), (95, 28182), (104, 28236), (109, 28263), (112, 28269), (114, 28275), (120, 28311), (130, 28380), (132, 28386), (139, 28449), (175, 28740), (180, 28773), (191, 28827), (194, 28842), (198, 28860), (204, 28902), (206, 28908), (210, 28941), (215, 28968), (216, 28971),

Gene: Cranjis_40 Start: 27815, Stop: 29017, Start Num: 26

Candidate Starts for Cranjis_40:

(Start: 26 @27815 has 93 MA's), (37, 27851), (44, 27908), (67, 28043), (69, 28067), (72, 28091), (77, 28115), (90, 28196), (95, 28217), (104, 28271), (109, 28298), (112, 28304), (114, 28310), (116,

28328), (120, 28346), (130, 28415), (132, 28421), (139, 28484), (145, 28529), (154, 28601), (160, 28640), (175, 28775), (176, 28790), (180, 28808), (191, 28862), (194, 28877), (198, 28895), (206, 28943), (210, 28976), (215, 29003), (218, 29009),

Gene: CrazyRich_38 Start: 27624, Stop: 28826, Start Num: 26

Candidate Starts for CrazyRich_38:

(Start: 26 @27624 has 93 MA's), (37, 27660), (44, 27717), (67, 27852), (69, 27876), (72, 27900), (77, 27924), (90, 28005), (95, 28026), (104, 28080), (109, 28107), (112, 28113), (114, 28119), (116, 28137), (120, 28155), (130, 28224), (132, 28230), (139, 28293), (145, 28338), (160, 28449), (175, 28584), (176, 28599), (180, 28617), (191, 28671), (194, 28686), (198, 28704), (206, 28752), (210, 28785), (215, 28812), (218, 28818),

Gene: Cressida_36 Start: 27050, Stop: 28252, Start Num: 26

Candidate Starts for Cressida_36:

(14, 26789), (18, 26939), (19, 26954), (Start: 25 @27047 has 3 MA's), (Start: 26 @27050 has 93 MA's), (42, 27125), (45, 27137), (59, 27233), (69, 27293), (77, 27341), (82, 27362), (90, 27422), (95, 27443), (98, 27461), (104, 27497), (105, 27500), (114, 27536), (130, 27641), (138, 27698), (148, 27788), (152, 27818), (154, 27827), (159, 27869), (175, 28007), (176, 28022), (179, 28034), (194, 28109), (195, 28115), (204, 28169), (206, 28175), (218, 28241),

Gene: Crisis_40 Start: 27615, Stop: 28817, Start Num: 26

Candidate Starts for Crisis_40:

(Start: 26 @27615 has 93 MA's), (37, 27651), (44, 27708), (67, 27843), (69, 27867), (72, 27891), (77, 27915), (90, 27996), (95, 28017), (104, 28071), (109, 28098), (112, 28104), (114, 28110), (116, 28128), (120, 28146), (130, 28215), (132, 28221), (139, 28284), (145, 28329), (160, 28440), (175, 28575), (176, 28590), (180, 28608), (191, 28662), (194, 28677), (198, 28695), (206, 28743), (210, 28776), (215, 28803), (218, 28809),

Gene: Dewdrop_79 Start: 50740, Stop: 51936, Start Num: 26

Candidate Starts for Dewdrop_79:

(18, 50629), (Start: 26 @50740 has 93 MA's), (31, 50746), (39, 50785), (40, 50788), (48, 50845), (54, 50878), (59, 50929), (64, 50950), (70, 51004), (72, 51013), (76, 51034), (79, 51043), (80, 51046), (91, 51115), (95, 51127), (97, 51139), (104, 51181), (114, 51220), (120, 51256), (124, 51274), (130, 51325), (161, 51568), (165, 51604), (178, 51718), (179, 51721), (180, 51727), (188, 51772), (191, 51781), (192, 51790), (194, 51796), (200, 51829), (206, 51862), (210, 51895), (214, 51919), (218, 51928),

Gene: DogYard_38 Start: 27524, Stop: 28657, Start Num: 35

Candidate Starts for DogYard_38:

(Start: 35 @27524 has 17 MA's), (43, 27590), (48, 27611), (57, 27659), (59, 27689), (62, 27698), (67, 27725), (82, 27818), (86, 27842), (95, 27884), (97, 27896), (100, 27908), (117, 27968), (132, 28046), (138, 28100), (142, 28127), (150, 28205), (154, 28229), (164, 28298), (177, 28412), (178, 28415), (180, 28424), (191, 28478), (194, 28493), (195, 28499), (197, 28505), (198, 28511), (201, 28535), (204, 28553), (217, 28628),

Gene: DonaldDuck_38 Start: 30527, Stop: 31678, Start Num: 26

Candidate Starts for DonaldDuck_38:

(5, 29951), (10, 30101), (19, 30431), (Start: 26 @30527 has 93 MA's), (40, 30560), (41, 30581), (44, 30599), (48, 30617), (67, 30737), (69, 30761), (95, 30893), (124, 31031), (140, 31160), (146, 31229), (155, 31283), (169, 31391), (176, 31442), (179, 31454), (201, 31571), (206, 31595), (210, 31628), (219, 31667),

Gene: EarickHC_39 Start: 27541, Stop: 28743, Start Num: 26

Candidate Starts for EarickHC_39:

(Start: 26 @27541 has 93 MA's), (37, 27577), (44, 27634), (67, 27769), (69, 27793), (72, 27817), (77, 27841), (90, 27922), (95, 27943), (104, 27997), (109, 28024), (112, 28030), (114, 28036), (116, 28054), (120, 28072), (130, 28141), (132, 28147), (139, 28210), (145, 28255), (160, 28366), (164, 28393), (175, 28501), (176, 28516), (180, 28534), (191, 28588), (194, 28603), (198, 28621), (204, 28663), (206, 28669), (210, 28702), (215, 28729), (218, 28735),

Gene: EverythinBagel_38 Start: 30915, Stop: 32066, Start Num: 26

Candidate Starts for EverythinBagel_38:

(5, 30339), (10, 30489), (19, 30819), (Start: 26 @30915 has 93 MA's), (40, 30948), (41, 30969), (44, 30987), (48, 31005), (67, 31125), (69, 31149), (95, 31281), (124, 31419), (140, 31548), (146, 31617), (155, 31671), (169, 31779), (176, 31830), (179, 31842), (201, 31959), (206, 31983), (210, 32016), (212, 32022), (219, 32055),

Gene: Fireman_39 Start: 28715, Stop: 29872, Start Num: 30

Candidate Starts for Fireman_39:

(Start: 30 @28715 has 12 MA's), (48, 28817), (69, 28964), (72, 28988), (74, 28997), (81, 29030), (95, 29102), (104, 29156), (113, 29183), (120, 29219), (123, 29231), (130, 29285), (136, 29327), (144, 29396), (168, 29567), (175, 29636), (176, 29651), (181, 29681), (192, 29732), (194, 29738), (204, 29798), (209, 29831), (210, 29837), (215, 29864),

Gene: Fizzles_39 Start: 30158, Stop: 31312, Start Num: 26

Candidate Starts for Fizzles_39:

(Start: 25 @30155 has 3 MA's), (Start: 26 @30158 has 93 MA's), (40, 30194), (67, 30371), (78, 30446), (81, 30461), (85, 30485), (93, 30521), (95, 30527), (103, 30578), (124, 30665), (132, 30725), (146, 30863), (154, 30908), (169, 31025), (176, 31076), (177, 31082), (179, 31088), (201, 31205), (212, 31268),

Gene: Forrestell_35 Start: 26317, Stop: 27450, Start Num: 35

Candidate Starts for Forrestell_35:

(Start: 35 @26317 has 17 MA's), (43, 26383), (48, 26404), (57, 26452), (59, 26482), (62, 26491), (67, 26518), (82, 26611), (86, 26635), (95, 26677), (97, 26689), (100, 26701), (117, 26761), (132, 26839), (138, 26893), (142, 26920), (150, 26998), (154, 27022), (164, 27091), (177, 27205), (178, 27208), (194, 27286), (195, 27292), (197, 27298), (198, 27304), (201, 27328), (204, 27346), (217, 27421),

Gene: FrankDeliGuy_36 Start: 30484, Stop: 31629, Start Num: 26

Candidate Starts for FrankDeliGuy_36:

(10, 30058), (19, 30388), (Start: 26 @30484 has 93 MA's), (40, 30511), (41, 30532), (42, 30541), (44, 30550), (48, 30568), (67, 30688), (69, 30712), (95, 30844), (124, 30982), (140, 31111), (141, 31114), (146, 31180), (155, 31234), (169, 31342), (176, 31393), (179, 31405), (201, 31522), (206, 31546), (210, 31579), (212, 31585), (219, 31618),

Gene: Fransoyer_41 Start: 31071, Stop: 32240, Start Num: 26

Candidate Starts for Fransoyer_41:

(3, 30381), (Start: 26 @31071 has 93 MA's), (40, 31116), (46, 31161), (63, 31269), (69, 31317), (88, 31419), (89, 31434), (93, 31452), (95, 31458), (103, 31509), (118, 31572), (130, 31650), (145, 31767), (166, 31914), (176, 32007), (177, 32013), (179, 32019), (182, 32043), (183, 32046), (186, 32064), (191, 32079), (194, 32094), (209, 32187),

Gene: Fregley_39 Start: 30098, Stop: 31246, Start Num: 26

Candidate Starts for Fregley_39:

(17, 29912), (18, 29987), (19, 30002), (Start: 25 @30095 has 3 MA's), (Start: 26 @30098 has 93 MA's), (40, 30131), (67, 30308), (69, 30332), (75, 30374), (85, 30422), (95, 30464), (107, 30527), (120,

30584), (124, 30602), (133, 30674), (176, 31013), (179, 31025), (201, 31142), (209, 31193), (218, 31235),

Gene: FuzzBuster_43 Start: 27006, Stop: 28205, Start Num: 26

Candidate Starts for FuzzBuster_43:

(Start: 26 @27006 has 93 MA's), (27, 27009), (39, 27051), (40, 27054), (51, 27135), (52, 27138), (66, 27225), (67, 27228), (81, 27318), (82, 27321), (83, 27330), (86, 27345), (95, 27390), (104, 27444), (105, 27447), (106, 27450), (114, 27483), (120, 27519), (124, 27537), (130, 27597), (131, 27600), (138, 27654), (160, 27831), (171, 27936), (176, 27981), (191, 28053), (194, 28068), (195, 28074), (200, 28101), (206, 28134), (209, 28161), (210, 28167),

Gene: Ganandorf_38 Start: 27677, Stop: 28879, Start Num: 26

Candidate Starts for Ganandorf_38:

(Start: 26 @27677 has 93 MA's), (37, 27713), (44, 27770), (67, 27905), (69, 27929), (72, 27953), (77, 27977), (90, 28058), (95, 28079), (104, 28133), (109, 28160), (112, 28166), (114, 28172), (116, 28190), (120, 28208), (130, 28277), (132, 28283), (139, 28346), (145, 28391), (160, 28502), (175, 28637), (176, 28652), (180, 28670), (191, 28724), (194, 28739), (198, 28757), (206, 28805), (210, 28838), (215, 28865), (218, 28871),

Gene: Gazebo_37 Start: 31089, Stop: 32240, Start Num: 26

Candidate Starts for Gazebo_37:

(5, 30513), (10, 30663), (19, 30993), (Start: 26 @31089 has 93 MA's), (40, 31122), (41, 31143), (44, 31161), (48, 31179), (67, 31299), (69, 31323), (95, 31455), (124, 31593), (140, 31722), (146, 31791), (155, 31845), (169, 31953), (176, 32004), (179, 32016), (201, 32133), (206, 32157), (210, 32190), (212, 32196), (219, 32229),

Gene: Gina_40 Start: 27318, Stop: 28469, Start Num: 30

Candidate Starts for Gina_40:

(Start: 30 @27318 has 12 MA's), (45, 27393), (47, 27399), (68, 27534), (69, 27555), (72, 27579), (83, 27633), (87, 27654), (95, 27693), (104, 27747), (113, 27774), (120, 27810), (124, 27828), (127, 27846), (130, 27876), (131, 27879), (134, 27906), (136, 27918), (139, 27945), (149, 28026), (168, 28158), (172, 28200), (176, 28242), (179, 28254), (181, 28272), (192, 28323), (194, 28329), (196, 28338), (200, 28362), (204, 28389), (206, 28395), (209, 28422), (210, 28428), (214, 28452),

Gene: Glorp_40 Start: 27678, Stop: 28880, Start Num: 26

Candidate Starts for Glorp_40:

(Start: 26 @27678 has 93 MA's), (37, 27714), (44, 27771), (67, 27906), (69, 27930), (72, 27954), (77, 27978), (90, 28059), (95, 28080), (104, 28134), (109, 28161), (112, 28167), (114, 28173), (116, 28191), (120, 28209), (130, 28278), (132, 28284), (139, 28347), (145, 28392), (154, 28464), (160, 28503), (175, 28638), (176, 28653), (180, 28671), (191, 28725), (194, 28740), (198, 28758), (204, 28800), (206, 28806), (210, 28839), (215, 28866), (218, 28872),

Gene: Grassboy_40 Start: 31141, Stop: 32292, Start Num: 26

Candidate Starts for Grassboy_40:

(5, 30565), (10, 30715), (19, 31045), (Start: 26 @31141 has 93 MA's), (40, 31174), (41, 31195), (44, 31213), (48, 31231), (67, 31351), (69, 31375), (95, 31507), (124, 31645), (140, 31774), (146, 31843), (155, 31897), (169, 32005), (176, 32056), (179, 32068), (201, 32185), (206, 32209), (210, 32242), (219, 32281),

Gene: Hendrix_73 Start: 49522, Stop: 50718, Start Num: 25

Candidate Starts for Hendrix_73:

(19, 49429), (Start: 25 @49522 has 3 MA's), (Start: 26 @49525 has 93 MA's), (39, 49567), (40, 49570), (47, 49618), (48, 49627), (53, 49657), (61, 49717), (72, 49795), (76, 49816), (77, 49819), (95, 49909),

(97, 49921), (104, 49963), (112, 49996), (114, 50002), (116, 50020), (120, 50038), (124, 50056), (130, 50107), (132, 50113), (140, 50179), (148, 50254), (157, 50317), (179, 50503), (188, 50554), (193, 50575), (194, 50578), (200, 50611), (204, 50638), (205, 50641), (206, 50644), (210, 50677),

Gene: Hermeonysus_38 Start: 27544, Stop: 28746, Start Num: 26

Candidate Starts for Hermeonysus_38:

(Start: 26 @27544 has 93 MA's), (37, 27580), (44, 27637), (67, 27772), (69, 27796), (72, 27820), (77, 27844), (90, 27925), (95, 27946), (104, 28000), (109, 28027), (112, 28033), (114, 28039), (116, 28057), (120, 28075), (130, 28144), (132, 28150), (139, 28213), (145, 28258), (160, 28369), (175, 28504), (176, 28519), (180, 28537), (191, 28591), (194, 28606), (198, 28624), (206, 28672), (210, 28705), (215, 28732), (218, 28738),

Gene: Hive_38 Start: 27705, Stop: 28838, Start Num: 35

Candidate Starts for Hive_38:

(Start: 35 @27705 has 17 MA's), (43, 27771), (48, 27792), (57, 27840), (59, 27870), (62, 27879), (67, 27906), (82, 27999), (86, 28023), (95, 28065), (97, 28077), (100, 28089), (117, 28149), (132, 28227), (138, 28281), (142, 28308), (150, 28386), (154, 28410), (164, 28479), (177, 28593), (178, 28596), (180, 28605), (191, 28659), (194, 28674), (195, 28680), (197, 28686), (198, 28692), (201, 28716), (204, 28734), (217, 28809),

Gene: Honeyfin_40 Start: 27865, Stop: 29067, Start Num: 26

Candidate Starts for Honeyfin_40:

(Start: 26 @27865 has 93 MA's), (37, 27901), (44, 27958), (67, 28093), (69, 28117), (72, 28141), (77, 28165), (90, 28246), (95, 28267), (104, 28321), (109, 28348), (112, 28354), (114, 28360), (116, 28378), (120, 28396), (130, 28465), (132, 28471), (139, 28534), (145, 28579), (154, 28651), (160, 28690), (175, 28825), (176, 28840), (180, 28858), (191, 28912), (194, 28927), (198, 28945), (204, 28987), (206, 28993), (210, 29026), (215, 29053), (218, 29059),

Gene: Hyperion_38 Start: 31045, Stop: 32196, Start Num: 26

Candidate Starts for Hyperion_38:

(5, 30469), (10, 30619), (19, 30949), (Start: 26 @31045 has 93 MA's), (40, 31078), (41, 31099), (44, 31117), (48, 31135), (67, 31255), (69, 31279), (95, 31411), (124, 31549), (140, 31678), (146, 31747), (155, 31801), (169, 31909), (176, 31960), (179, 31972), (201, 32089), (206, 32113), (210, 32146), (212, 32152), (219, 32185),

Gene: Jayden_40 Start: 28060, Stop: 29211, Start Num: 30

Candidate Starts for Jayden_40:

(Start: 30 @28060 has 12 MA's), (45, 28135), (48, 28150), (50, 28165), (59, 28231), (68, 28276), (69, 28297), (72, 28321), (83, 28375), (95, 28435), (104, 28489), (105, 28492), (110, 28510), (120, 28552), (126, 28585), (130, 28618), (134, 28648), (136, 28660), (139, 28687), (165, 28879), (167, 28894), (168, 28900), (172, 28942), (176, 28984), (181, 29014), (194, 29071), (204, 29131), (209, 29164), (210, 29170), (214, 29194),

Gene: Jefe_39 Start: 27602, Stop: 28804, Start Num: 26

Candidate Starts for Jefe_39:

(Start: 26 @27602 has 93 MA's), (37, 27638), (44, 27695), (67, 27830), (69, 27854), (72, 27878), (77, 27902), (90, 27983), (95, 28004), (104, 28058), (109, 28085), (112, 28091), (114, 28097), (116, 28115), (120, 28133), (130, 28202), (132, 28208), (139, 28271), (145, 28316), (154, 28388), (160, 28427), (175, 28562), (176, 28577), (180, 28595), (191, 28649), (194, 28664), (198, 28682), (204, 28724), (206, 28730), (210, 28763), (215, 28790), (218, 28796),

Gene: Jehoshaphat_41 Start: 31446, Stop: 32597, Start Num: 26

Candidate Starts for Jehoshaphat_41:

(5, 30870), (10, 31020), (19, 31350), (Start: 26 @31446 has 93 MA's), (40, 31479), (41, 31500), (44, 31518), (48, 31536), (67, 31656), (69, 31680), (95, 31812), (124, 31950), (140, 32079), (146, 32148), (155, 32202), (169, 32310), (176, 32361), (179, 32373), (201, 32490), (206, 32514), (210, 32547), (219, 32586),

Gene: Jollipop_39 Start: 27941, Stop: 29143, Start Num: 26

Candidate Starts for Jollipop_39:

(Start: 26 @27941 has 93 MA's), (37, 27977), (44, 28034), (67, 28169), (69, 28193), (72, 28217), (77, 28241), (90, 28322), (95, 28343), (104, 28397), (109, 28424), (112, 28430), (114, 28436), (116, 28454), (120, 28472), (130, 28541), (132, 28547), (139, 28610), (145, 28655), (154, 28727), (160, 28766), (175, 28901), (176, 28916), (180, 28934), (191, 28988), (194, 29003), (198, 29021), (206, 29069), (210, 29102), (215, 29129), (218, 29135),

Gene: Judebell_41 Start: 30949, Stop: 32094, Start Num: 26

Candidate Starts for Judebell_41:

(5, 30373), (10, 30523), (19, 30853), (Start: 26 @30949 has 93 MA's), (40, 30976), (41, 30997), (42, 31006), (44, 31015), (48, 31033), (67, 31153), (69, 31177), (95, 31309), (124, 31447), (140, 31576), (146, 31645), (155, 31699), (169, 31807), (176, 31858), (179, 31870), (201, 31987), (206, 32011), (210, 32044), (219, 32083),

Gene: KaiHaiDragon_39 Start: 27541, Stop: 28743, Start Num: 26

Candidate Starts for KaiHaiDragon_39:

(Start: 26 @27541 has 93 MA's), (37, 27577), (44, 27634), (67, 27769), (69, 27793), (72, 27817), (77, 27841), (90, 27922), (95, 27943), (104, 27997), (109, 28024), (112, 28030), (114, 28036), (116, 28054), (120, 28072), (130, 28141), (132, 28147), (139, 28210), (145, 28255), (160, 28366), (164, 28393), (175, 28501), (176, 28516), (180, 28534), (191, 28588), (194, 28603), (198, 28621), (204, 28663), (206, 28669), (210, 28702), (215, 28729), (218, 28735),

Gene: Kelcole_37 Start: 29980, Stop: 31128, Start Num: 26

Candidate Starts for Kelcole_37:

(10, 29554), (17, 29794), (18, 29869), (19, 29884), (Start: 25 @29977 has 3 MA's), (Start: 26 @29980 has 93 MA's), (40, 30013), (67, 30190), (69, 30214), (75, 30256), (81, 30280), (85, 30304), (95, 30346), (107, 30409), (120, 30466), (124, 30484), (133, 30556), (176, 30895), (179, 30907), (201, 31024), (209, 31075), (218, 31117),

Gene: KillerQueen_39 Start: 29775, Stop: 30923, Start Num: 26

Candidate Starts for KillerQueen_39:

(10, 29349), (17, 29589), (18, 29664), (19, 29679), (Start: 25 @29772 has 3 MA's), (Start: 26 @29775 has 93 MA's), (40, 29808), (67, 29985), (69, 30009), (75, 30051), (85, 30099), (95, 30141), (107, 30204), (120, 30261), (124, 30279), (133, 30351), (176, 30690), (179, 30702), (201, 30819), (209, 30870), (218, 30912),

Gene: Kithara_38 Start: 32039, Stop: 33163, Start Num: 29

Candidate Starts for Kithara_38:

(Start: 29 @32039 has 1 MA's), (73, 32315), (86, 32381), (96, 32426), (97, 32435), (100, 32447), (130, 32561), (137, 32618), (141, 32639), (148, 32714), (173, 32894), (180, 32936), (185, 32972), (189, 32987), (190, 32990), (192, 33002), (194, 33008), (197, 33020), (201, 33053), (204, 33071), (210, 33110),

Gene: Kowalski_38 Start: 27651, Stop: 28853, Start Num: 26

Candidate Starts for Kowalski_38:

(Start: 26 @27651 has 93 MA's), (37, 27687), (44, 27744), (67, 27879), (69, 27903), (72, 27927), (77, 27951), (90, 28032), (95, 28053), (104, 28107), (109, 28134), (112, 28140), (114, 28146), (116,

28164), (120, 28182), (130, 28251), (132, 28257), (139, 28320), (145, 28365), (154, 28437), (160, 28476), (175, 28611), (176, 28626), (180, 28644), (191, 28698), (194, 28713), (198, 28731), (206, 28779), (210, 28812), (215, 28839), (218, 28845),

Gene: Kozie_35 Start: 27238, Stop: 28389, Start Num: 30

Candidate Starts for Kozie_35:

(Start: 30 @27238 has 12 MA's), (45, 27313), (47, 27319), (48, 27328), (69, 27475), (72, 27499), (95, 27613), (104, 27667), (120, 27730), (126, 27763), (130, 27796), (131, 27799), (132, 27802), (134, 27826), (136, 27838), (137, 27850), (139, 27865), (148, 27943), (160, 28012), (167, 28072), (168, 28078), (172, 28120), (179, 28174), (181, 28192), (194, 28249), (204, 28309), (210, 28348), (214, 28372),

Gene: Kubulix_39 Start: 27820, Stop: 28953, Start Num: 35

Candidate Starts for Kubulix_39:

(Start: 35 @27820 has 17 MA's), (43, 27886), (48, 27907), (57, 27955), (59, 27985), (62, 27994), (67, 28021), (82, 28114), (86, 28138), (95, 28180), (97, 28192), (100, 28204), (117, 28264), (132, 28342), (138, 28396), (142, 28423), (150, 28501), (154, 28525), (164, 28594), (177, 28708), (178, 28711), (180, 28720), (191, 28774), (194, 28789), (195, 28795), (197, 28801), (198, 28807), (201, 28831), (204, 28849), (217, 28924),

Gene: Kyva_41 Start: 31176, Stop: 32327, Start Num: 26

Candidate Starts for Kyva_41:

(5, 30600), (10, 30750), (19, 31080), (Start: 26 @31176 has 93 MA's), (40, 31209), (41, 31230), (44, 31248), (48, 31266), (67, 31386), (69, 31410), (95, 31542), (124, 31680), (140, 31809), (146, 31878), (155, 31932), (169, 32040), (176, 32091), (179, 32103), (201, 32220), (206, 32244), (210, 32277), (219, 32316),

Gene: Leaf_79 Start: 50740, Stop: 51936, Start Num: 26

Candidate Starts for Leaf_79:

(18, 50629), (Start: 26 @50740 has 93 MA's), (31, 50746), (39, 50785), (40, 50788), (48, 50845), (54, 50878), (59, 50929), (64, 50950), (70, 51004), (72, 51013), (76, 51034), (79, 51043), (80, 51046), (91, 51115), (95, 51127), (97, 51139), (104, 51181), (114, 51220), (120, 51256), (124, 51274), (130, 51325), (161, 51568), (165, 51604), (178, 51718), (179, 51721), (180, 51727), (188, 51772), (191, 51781), (192, 51790), (194, 51796), (200, 51829), (206, 51862), (210, 51895), (214, 51919), (218, 51928),

Gene: LittleFortune_40 Start: 27907, Stop: 29109, Start Num: 26

Candidate Starts for LittleFortune_40:

(Start: 26 @27907 has 93 MA's), (37, 27943), (44, 28000), (56, 28063), (67, 28135), (69, 28159), (72, 28183), (77, 28207), (90, 28288), (95, 28309), (104, 28363), (109, 28390), (112, 28396), (114, 28402), (116, 28420), (120, 28438), (130, 28507), (132, 28513), (139, 28576), (145, 28621), (154, 28693), (160, 28732), (175, 28867), (176, 28882), (180, 28900), (191, 28954), (194, 28969), (198, 28987), (206, 29035), (210, 29068), (215, 29095), (218, 29101),

Gene: Llemily_38 Start: 30222, Stop: 31373, Start Num: 26

Candidate Starts for Llemily_38:

(5, 29646), (10, 29796), (19, 30126), (Start: 26 @30222 has 93 MA's), (40, 30255), (41, 30276), (44, 30294), (48, 30312), (67, 30432), (69, 30456), (95, 30588), (124, 30726), (140, 30855), (146, 30924), (155, 30978), (169, 31086), (176, 31137), (179, 31149), (201, 31266), (206, 31290), (210, 31323), (219, 31362),

Gene: Lonelysoil_38 Start: 30464, Stop: 31615, Start Num: 26

Candidate Starts for Lonelysoil_38:

(10, 30038), (19, 30368), (Start: 26 @30464 has 93 MA's), (40, 30497), (41, 30518), (44, 30536), (48, 30554), (67, 30674), (69, 30698), (95, 30830), (124, 30968), (140, 31097), (146, 31166), (155, 31220), (169, 31328), (176, 31379), (179, 31391), (201, 31508), (206, 31532), (210, 31565), (212, 31571), (219, 31604),

Gene: Lucretia_39 Start: 27594, Stop: 28796, Start Num: 26

Candidate Starts for Lucretia_39:

(Start: 26 @27594 has 93 MA's), (37, 27630), (44, 27687), (67, 27822), (69, 27846), (72, 27870), (77, 27894), (90, 27975), (95, 27996), (104, 28050), (109, 28077), (112, 28083), (114, 28089), (116, 28107), (120, 28125), (130, 28194), (132, 28200), (139, 28263), (145, 28308), (160, 28419), (175, 28554), (176, 28569), (180, 28587), (191, 28641), (194, 28656), (198, 28674), (206, 28722), (210, 28755), (215, 28782), (218, 28788),

Gene: Marcie_43 Start: 30639, Stop: 31787, Start Num: 26

Candidate Starts for Marcie_43:

(18, 30528), (19, 30543), (Start: 25 @30636 has 3 MA's), (Start: 26 @30639 has 93 MA's), (40, 30672), (67, 30849), (75, 30915), (85, 30963), (95, 31005), (107, 31068), (120, 31125), (124, 31143), (133, 31215), (138, 31257), (176, 31554), (179, 31566), (194, 31641), (201, 31683), (209, 31734), (218, 31776),

Gene: Margaery_34 Start: 26844, Stop: 28079, Start Num: 26

Candidate Starts for Margaery_34:

(Start: 26 @26844 has 93 MA's), (37, 26901), (45, 26961), (48, 26976), (57, 27024), (69, 27117), (70, 27132), (77, 27165), (81, 27183), (95, 27267), (97, 27279), (104, 27321), (111, 27354), (114, 27360), (116, 27378), (127, 27432), (128, 27435), (129, 27453), (130, 27465), (161, 27711), (165, 27747), (180, 27870), (191, 27924), (195, 27945), (198, 27957), (204, 27999), (206, 28005), (210, 28038), (216, 28068),

Gene: Mashley_37 Start: 30861, Stop: 32012, Start Num: 26

Candidate Starts for Mashley_37:

(10, 30435), (19, 30765), (Start: 26 @30861 has 93 MA's), (40, 30894), (41, 30915), (44, 30933), (48, 30951), (67, 31071), (69, 31095), (95, 31227), (124, 31365), (140, 31494), (146, 31563), (155, 31617), (169, 31725), (176, 31776), (179, 31788), (201, 31905), (206, 31929), (210, 31962), (212, 31968), (219, 32001),

Gene: Matzah_35 Start: 27512, Stop: 28741, Start Num: 25

Candidate Starts for Matzah_35:

(7, 27011), (8, 27059), (9, 27080), (18, 27404), (19, 27419), (Start: 25 @27512 has 3 MA's), (Start: 26 @27515 has 93 MA's), (28, 27521), (45, 27608), (48, 27623), (55, 27665), (69, 27776), (79, 27830), (81, 27842), (90, 27905), (95, 27926), (104, 27980), (105, 27983), (112, 28013), (114, 28019), (116, 28043), (120, 28061), (130, 28130), (131, 28133), (137, 28184), (148, 28277), (154, 28316), (159, 28358), (175, 28496), (180, 28529), (191, 28583), (193, 28595), (194, 28598), (204, 28658), (206, 28664), (218, 28730),

Gene: Megan_33 Start: 28385, Stop: 29542, Start Num: 24

Candidate Starts for Megan_33:

(12, 28094), (13, 28127), (16, 28202), (18, 28280), (19, 28295), (20, 28304), (Start: 24 @28385 has 1 MA's), (Start: 30 @28391 has 12 MA's), (42, 28451), (45, 28463), (47, 28469), (50, 28493), (60, 28562), (67, 28601), (69, 28625), (77, 28673), (83, 28703), (95, 28763), (99, 28784), (104, 28817), (113, 28844), (126, 28913), (130, 28946), (131, 28949), (134, 28976), (136, 28988), (139, 29015), (149, 29096), (165, 29207), (179, 29324), (194, 29399), (204, 29459), (206, 29465), (209, 29492), (210, 29498), (214, 29522), (218, 29531),

Gene: MellowYellow_35 Start: 26365, Stop: 27498, Start Num: 35

Candidate Starts for MellowYellow_35:

(Start: 35 @26365 has 17 MA's), (43, 26431), (48, 26452), (57, 26500), (59, 26530), (62, 26539), (67, 26566), (82, 26659), (86, 26683), (95, 26725), (97, 26737), (100, 26749), (117, 26809), (132, 26887), (138, 26941), (142, 26968), (150, 27046), (154, 27070), (164, 27139), (177, 27253), (178, 27256), (180, 27265), (191, 27319), (194, 27334), (195, 27340), (197, 27346), (198, 27352), (201, 27376), (204, 27394), (217, 27469),

Gene: MementoMori_35 Start: 27260, Stop: 28489, Start Num: 25

Candidate Starts for MementoMori_35:

(9, 26828), (18, 27152), (19, 27167), (Start: 25 @27260 has 3 MA's), (Start: 26 @27263 has 93 MA's), (28, 27269), (45, 27356), (48, 27371), (55, 27413), (69, 27524), (79, 27578), (81, 27590), (90, 27653), (95, 27674), (104, 27728), (105, 27731), (112, 27761), (114, 27767), (116, 27791), (120, 27809), (130, 27878), (131, 27881), (137, 27932), (148, 28025), (154, 28064), (159, 28106), (180, 28277), (191, 28331), (193, 28343), (194, 28346), (204, 28406), (206, 28412),

Gene: Mentos_43 Start: 31954, Stop: 33105, Start Num: 26

Candidate Starts for Mentos_43:

(Start: 26 @31954 has 93 MA's), (40, 31987), (41, 32008), (44, 32026), (48, 32044), (67, 32164), (69, 32188), (95, 32320), (124, 32458), (140, 32587), (146, 32656), (155, 32710), (169, 32818), (176, 32869), (179, 32881), (201, 32998), (206, 33022), (210, 33055), (212, 33061), (219, 33094),

Gene: Merry_ Start: 29430, Stop: 30674, Start Num: 26

Candidate Starts for Merry_:

(18, 29322), (19, 29337), (Start: 24 @29427 has 1 MA's), (Start: 26 @29430 has 93 MA's), (39, 29481), (40, 29484), (42, 29514), (48, 29541), (49, 29544), (67, 29664), (69, 29688), (77, 29736), (94, 29835), (95, 29841), (112, 29928), (120, 29970), (124, 29988), (129, 30027), (130, 30039), (146, 30180), (148, 30186), (160, 30294), (165, 30339), (172, 30402), (176, 30444), (177, 30450), (192, 30525), (194, 30531), (195, 30537), (204, 30591), (210, 30630), (215, 30657), (218, 30663),

Gene: Metamorphoo_39 Start: 27995, Stop: 29152, Start Num: 30

Candidate Starts for Metamorphoo_39:

(Start: 30 @27995 has 12 MA's), (67, 28220), (69, 28244), (74, 28277), (77, 28292), (81, 28310), (87, 28343), (95, 28382), (104, 28436), (113, 28463), (116, 28481), (120, 28499), (124, 28517), (130, 28565), (134, 28595), (136, 28607), (144, 28676), (167, 28841), (168, 28847), (179, 28943), (181, 28961), (194, 29018), (199, 29048), (204, 29078), (210, 29117), (215, 29144),

Gene: Mila11_41 Start: 31836, Stop: 32981, Start Num: 26

Candidate Starts for Mila11_41:

(19, 31740), (Start: 25 @31833 has 3 MA's), (Start: 26 @31836 has 93 MA's), (40, 31863), (41, 31884), (44, 31902), (48, 31920), (67, 32040), (69, 32064), (83, 32142), (92, 32187), (95, 32196), (124, 32334), (140, 32463), (146, 32532), (155, 32586), (169, 32694), (176, 32745), (179, 32757), (201, 32874), (206, 32898), (210, 32931), (212, 32937), (219, 32970),

Gene: MisoSoup_31 Start: 23960, Stop: 25195, Start Num: 26

Candidate Starts for MisoSoup_31:

(Start: 25 @23957 has 3 MA's), (Start: 26 @23960 has 93 MA's), (39, 24011), (40, 24014), (41, 24035), (55, 24113), (64, 24173), (67, 24188), (72, 24236), (85, 24302), (95, 24350), (108, 24425), (114, 24443), (115, 24488), (124, 24527), (130, 24587), (137, 24641), (170, 24920), (180, 24986), (191, 25040), (194, 25055), (195, 25061), (204, 25115), (206, 25121), (209, 25148), (210, 25154), (214, 25178), (218, 25187),

Gene: MorillMayhem_38 Start: 30734, Stop: 31879, Start Num: 26

Candidate Starts for MorillMayhem_38:

(19, 30638), (Start: 25 @30731 has 3 MA's), (Start: 26 @30734 has 93 MA's), (40, 30761), (41, 30782), (42, 30791), (44, 30800), (48, 30818), (67, 30938), (69, 30962), (92, 31085), (95, 31094), (124, 31232), (140, 31361), (146, 31430), (155, 31484), (169, 31592), (176, 31643), (179, 31655), (201, 31772), (206, 31796), (210, 31829), (212, 31835), (219, 31868),

Gene: Namago_39 Start: 30306, Stop: 31457, Start Num: 26

Candidate Starts for Namago_39:

(5, 29730), (10, 29880), (19, 30210), (Start: 26 @30306 has 93 MA's), (40, 30339), (41, 30360), (44, 30378), (48, 30396), (67, 30516), (69, 30540), (95, 30672), (124, 30810), (140, 30939), (146, 31008), (155, 31062), (169, 31170), (176, 31221), (179, 31233), (201, 31350), (206, 31374), (210, 31407), (219, 31446),

Gene: Nicole72_34 Start: 29308, Stop: 30459, Start Num: 30

Candidate Starts for Nicole72_34:

(13, 29044), (16, 29119), (19, 29212), (20, 29221), (Start: 30 @29308 has 12 MA's), (42, 29368), (45, 29380), (57, 29443), (58, 29461), (67, 29518), (72, 29566), (78, 29593), (83, 29620), (95, 29680), (104, 29734), (113, 29761), (120, 29797), (126, 29830), (130, 29863), (131, 29866), (134, 29893), (136, 29905), (139, 29932), (148, 30010), (165, 30124), (167, 30139), (168, 30145), (179, 30241), (194, 30316), (196, 30325), (200, 30349), (206, 30382), (209, 30409), (210, 30415), (214, 30439), (216, 30445), (218, 30448),

Gene: Nikan_33 Start: 26619, Stop: 27752, Start Num: 35

Candidate Starts for Nikan_33:

(Start: 35 @26619 has 17 MA's), (43, 26685), (48, 26706), (57, 26754), (59, 26784), (62, 26793), (63, 26796), (76, 26889), (82, 26913), (86, 26937), (95, 26979), (97, 26991), (100, 27003), (112, 27045), (129, 27123), (137, 27192), (138, 27195), (142, 27222), (150, 27300), (154, 27324), (175, 27486), (178, 27510), (187, 27561), (191, 27573), (194, 27588), (201, 27630), (204, 27648), (217, 27723),

Gene: Nike_39 Start: 31261, Stop: 32412, Start Num: 26

Candidate Starts for Nike_39:

(19, 31165), (Start: 26 @31261 has 93 MA's), (40, 31294), (41, 31315), (44, 31333), (48, 31351), (67, 31471), (69, 31495), (95, 31627), (121, 31750), (124, 31765), (140, 31894), (146, 31963), (155, 32017), (169, 32125), (176, 32176), (179, 32188), (201, 32305), (206, 32329), (210, 32362), (212, 32368), (219, 32401),

Gene: NoodlelyBoi_39 Start: 27978, Stop: 29177, Start Num: 26

Candidate Starts for NoodlelyBoi_39:

(Start: 26 @27978 has 93 MA's), (32, 27990), (44, 28071), (55, 28131), (67, 28206), (69, 28230), (72, 28254), (77, 28278), (95, 28380), (104, 28434), (109, 28461), (112, 28467), (114, 28473), (120, 28509), (130, 28578), (139, 28647), (175, 28938), (180, 28971), (191, 29025), (194, 29040), (198, 29058), (204, 29100), (206, 29106), (215, 29166), (216, 29169),

Gene: NyleyClemson_34 Start: 26298, Stop: 27431, Start Num: 35

Candidate Starts for NyleyClemson_34:

(Start: 35 @26298 has 17 MA's), (43, 26364), (48, 26385), (57, 26433), (59, 26463), (62, 26472), (67, 26499), (82, 26592), (86, 26616), (95, 26658), (97, 26670), (100, 26682), (117, 26742), (132, 26820), (138, 26874), (142, 26901), (150, 26979), (154, 27003), (164, 27072), (177, 27186), (178, 27189), (194, 27267), (195, 27273), (197, 27279), (198, 27285), (201, 27309), (204, 27327), (217, 27402),

Gene: Odyssey395_40 Start: 27649, Stop: 28782, Start Num: 35

Candidate Starts for Odyssey395_40:

(Start: 35 @27649 has 17 MA's), (43, 27715), (48, 27736), (57, 27784), (59, 27814), (62, 27823), (67, 27850), (82, 27943), (86, 27967), (95, 28009), (97, 28021), (100, 28033), (117, 28093), (132, 28171), (138, 28225), (142, 28252), (150, 28330), (154, 28354), (164, 28423), (177, 28537), (178, 28540), (180, 28549), (191, 28603), (194, 28618), (195, 28624), (197, 28630), (198, 28636), (201, 28660), (204, 28678), (217, 28753),

Gene: Ollypop_36 Start: 26725, Stop: 27858, Start Num: 35

Candidate Starts for Ollypop_36:

(Start: 35 @26725 has 17 MA's), (43, 26791), (48, 26812), (57, 26860), (59, 26890), (62, 26899), (63, 26902), (68, 26929), (76, 26995), (82, 27019), (86, 27043), (95, 27085), (97, 27097), (100, 27109), (112, 27151), (137, 27298), (138, 27301), (142, 27328), (150, 27406), (154, 27430), (175, 27592), (180, 27625), (184, 27658), (187, 27667), (191, 27679), (194, 27694), (198, 27712), (201, 27736), (204, 27754), (217, 27829),

Gene: OneinaGillian_38 Start: 29630, Stop: 30778, Start Num: 26

Candidate Starts for OneinaGillian_38:

(10, 29204), (17, 29444), (18, 29519), (19, 29534), (Start: 25 @29627 has 3 MA's), (Start: 26 @29630 has 93 MA's), (40, 29663), (67, 29840), (69, 29864), (75, 29906), (81, 29930), (85, 29954), (95, 29996), (107, 30059), (120, 30116), (124, 30134), (133, 30206), (176, 30545), (179, 30557), (201, 30674), (205, 30695), (209, 30725), (218, 30767),

Gene: Onika_38 Start: 27626, Stop: 28828, Start Num: 26

Candidate Starts for Onika_38:

(Start: 26 @27626 has 93 MA's), (37, 27662), (44, 27719), (56, 27782), (67, 27854), (69, 27878), (72, 27902), (77, 27926), (90, 28007), (95, 28028), (104, 28082), (109, 28109), (112, 28115), (114, 28121), (116, 28139), (120, 28157), (130, 28226), (132, 28232), (139, 28295), (145, 28340), (160, 28451), (175, 28586), (176, 28601), (180, 28619), (191, 28673), (194, 28688), (198, 28706), (206, 28754), (210, 28787), (215, 28814), (218, 28820),

Gene: Paschalis_38 Start: 27633, Stop: 28835, Start Num: 26

Candidate Starts for Paschalis_38:

(Start: 26 @27633 has 93 MA's), (37, 27669), (44, 27726), (67, 27861), (69, 27885), (72, 27909), (77, 27933), (90, 28014), (95, 28035), (104, 28089), (109, 28116), (112, 28122), (114, 28128), (116, 28146), (120, 28164), (130, 28233), (132, 28239), (139, 28302), (145, 28347), (154, 28419), (160, 28458), (175, 28593), (176, 28608), (180, 28626), (191, 28680), (194, 28695), (198, 28713), (206, 28761), (210, 28794), (215, 28821), (218, 28827),

Gene: Pepe25_37 Start: 29229, Stop: 30377, Start Num: 26

Candidate Starts for Pepe25_37:

(19, 29133), (Start: 25 @29226 has 3 MA's), (Start: 26 @29229 has 93 MA's), (40, 29262), (42, 29292), (85, 29553), (93, 29589), (95, 29595), (103, 29646), (112, 29673), (116, 29697), (120, 29715), (123, 29727), (124, 29733), (145, 29904), (148, 29937), (156, 29994), (162, 30009), (174, 30126), (176, 30144), (177, 30150), (179, 30156), (191, 30216), (210, 30330), (212, 30336),

Gene: Phabia_39 Start: 30637, Stop: 31788, Start Num: 26

Candidate Starts for Phabia_39:

(10, 30211), (19, 30541), (Start: 26 @30637 has 93 MA's), (40, 30670), (41, 30691), (44, 30709), (48, 30727), (67, 30847), (69, 30871), (95, 31003), (124, 31141), (140, 31270), (146, 31339), (155, 31393), (169, 31501), (176, 31552), (179, 31564), (201, 31681), (206, 31705), (210, 31738), (212, 31744), (219, 31777),

Gene: PhedwardCullen_37 Start: 27384, Stop: 28586, Start Num: 26

Candidate Starts for PhedwardCullen_37:

(Start: 26 @27384 has 93 MA's), (37, 27420), (44, 27477), (67, 27612), (69, 27636), (72, 27660), (77, 27684), (90, 27765), (95, 27786), (104, 27840), (109, 27867), (112, 27873), (114, 27879), (116, 27897), (120, 27915), (130, 27984), (132, 27990), (139, 28053), (145, 28098), (160, 28209), (175, 28344), (176, 28359), (180, 28377), (191, 28431), (194, 28446), (198, 28464), (206, 28512), (210, 28545), (215, 28572), (218, 28578),

Gene: Phinky_45 Start: 32449, Stop: 33597, Start Num: 26

Candidate Starts for Phinky_45:

(1, 31603), (2, 31672), (4, 31765), (5, 31873), (17, 32263), (19, 32353), (Start: 25 @32446 has 3 MA's), (Start: 26 @32449 has 93 MA's), (40, 32482), (41, 32503), (44, 32521), (67, 32659), (81, 32749), (85, 32773), (93, 32809), (95, 32815), (99, 32836), (103, 32866), (120, 32935), (124, 32953), (132, 33013), (138, 33067), (151, 33181), (154, 33196), (176, 33364), (177, 33370), (191, 33436), (201, 33493), (209, 33544), (218, 33586),

Gene: Phorgeous_38 Start: 27499, Stop: 28701, Start Num: 26

Candidate Starts for Phorgeous_38:

(Start: 26 @27499 has 93 MA's), (37, 27535), (44, 27592), (56, 27655), (67, 27727), (69, 27751), (72, 27775), (77, 27799), (90, 27880), (95, 27901), (104, 27955), (109, 27982), (112, 27988), (114, 27994), (116, 28012), (120, 28030), (130, 28099), (132, 28105), (139, 28168), (145, 28213), (154, 28285), (160, 28324), (164, 28351), (175, 28459), (176, 28474), (180, 28492), (191, 28546), (194, 28561), (198, 28579), (204, 28621), (206, 28627), (210, 28660), (215, 28687), (218, 28693),

Gene: Phrancesco_39 Start: 27777, Stop: 28979, Start Num: 26

Candidate Starts for Phrancesco_39:

(Start: 26 @27777 has 93 MA's), (37, 27813), (44, 27870), (67, 28005), (69, 28029), (72, 28053), (77, 28077), (90, 28158), (95, 28179), (104, 28233), (109, 28260), (112, 28266), (114, 28272), (116, 28290), (120, 28308), (130, 28377), (132, 28383), (139, 28446), (145, 28491), (154, 28563), (160, 28602), (175, 28737), (176, 28752), (180, 28770), (191, 28824), (194, 28839), (198, 28857), (206, 28905), (210, 28938), (215, 28965), (218, 28971),

Gene: PhuzzTulsa_36 Start: 27609, Stop: 28742, Start Num: 35

Candidate Starts for PhuzzTulsa_36:

(Start: 35 @27609 has 17 MA's), (43, 27675), (48, 27696), (57, 27744), (59, 27774), (62, 27783), (67, 27810), (82, 27903), (86, 27927), (95, 27969), (97, 27981), (100, 27993), (117, 28053), (132, 28131), (138, 28185), (142, 28212), (150, 28290), (154, 28314), (164, 28383), (177, 28497), (178, 28500), (191, 28563), (194, 28578), (195, 28584), (197, 28590), (198, 28596), (201, 28620), (204, 28638), (217, 28713),

Gene: PierreOrion_39 Start: 27800, Stop: 29002, Start Num: 26

Candidate Starts for PierreOrion_39:

(Start: 26 @27800 has 93 MA's), (37, 27836), (44, 27893), (67, 28028), (69, 28052), (72, 28076), (77, 28100), (90, 28181), (95, 28202), (104, 28256), (109, 28283), (112, 28289), (114, 28295), (116, 28313), (120, 28331), (130, 28400), (132, 28406), (139, 28469), (145, 28514), (160, 28625), (175, 28760), (176, 28775), (180, 28793), (191, 28847), (194, 28862), (198, 28880), (206, 28928), (210, 28961), (215, 28988), (218, 28994),

Gene: PiperSansNom_39 Start: 27940, Stop: 29142, Start Num: 26

Candidate Starts for PiperSansNom_39:

(Start: 26 @27940 has 93 MA's), (37, 27976), (44, 28033), (67, 28168), (69, 28192), (72, 28216), (77, 28240), (90, 28321), (95, 28342), (104, 28396), (109, 28423), (112, 28429), (114, 28435), (116, 28453), (120, 28471), (130, 28540), (132, 28546), (139, 28609), (145, 28654), (160, 28765), (175, 28900), (176, 28915), (180, 28933), (191, 28987), (194, 29002), (198, 29020), (206, 29068), (210, 29101), (215, 29128), (218, 29134),

Gene: Piperis_39 Start: 27622, Stop: 28824, Start Num: 26

Candidate Starts for Piperis_39:

(Start: 26 @27622 has 93 MA's), (37, 27658), (44, 27715), (67, 27850), (69, 27874), (72, 27898), (77, 27922), (90, 28003), (95, 28024), (104, 28078), (109, 28105), (112, 28111), (114, 28117), (116, 28135), (120, 28153), (130, 28222), (132, 28228), (139, 28291), (145, 28336), (154, 28408), (160, 28447), (175, 28582), (176, 28597), (180, 28615), (191, 28669), (194, 28684), (198, 28702), (204, 28744), (206, 28750), (210, 28783), (215, 28810), (218, 28816),

Gene: Pointis_38 Start: 27647, Stop: 28780, Start Num: 35

Candidate Starts for Pointis_38:

(Start: 35 @27647 has 17 MA's), (43, 27713), (48, 27734), (57, 27782), (59, 27812), (62, 27821), (67, 27848), (82, 27941), (86, 27965), (95, 28007), (97, 28019), (100, 28031), (117, 28091), (132, 28169), (138, 28223), (142, 28250), (150, 28328), (154, 28352), (164, 28421), (177, 28535), (178, 28538), (180, 28547), (191, 28601), (194, 28616), (195, 28622), (197, 28628), (198, 28634), (201, 28658), (204, 28676), (217, 28751),

Gene: Popstraw_36 Start: 27433, Stop: 28566, Start Num: 35

Candidate Starts for Popstraw_36:

(Start: 35 @27433 has 17 MA's), (43, 27499), (48, 27520), (57, 27568), (59, 27598), (62, 27607), (67, 27634), (82, 27727), (86, 27751), (95, 27793), (97, 27805), (100, 27817), (117, 27877), (132, 27955), (138, 28009), (142, 28036), (150, 28114), (154, 28138), (164, 28207), (177, 28321), (178, 28324), (180, 28333), (191, 28387), (194, 28402), (195, 28408), (197, 28414), (198, 28420), (201, 28444), (204, 28462), (217, 28537),

Gene: Pulchra_40 Start: 28016, Stop: 29218, Start Num: 26

Candidate Starts for Pulchra_40:

(Start: 26 @28016 has 93 MA's), (37, 28052), (44, 28109), (67, 28244), (69, 28268), (72, 28292), (77, 28316), (90, 28397), (95, 28418), (104, 28472), (109, 28499), (112, 28505), (114, 28511), (116, 28529), (120, 28547), (130, 28616), (132, 28622), (139, 28685), (145, 28730), (160, 28841), (175, 28976), (176, 28991), (180, 29009), (191, 29063), (192, 29072), (194, 29078), (198, 29096), (206, 29144), (210, 29177), (215, 29204), (218, 29210),

Gene: Pureglobe5_40 Start: 27830, Stop: 28963, Start Num: 35

Candidate Starts for Pureglobe5_40:

(Start: 35 @27830 has 17 MA's), (43, 27896), (48, 27917), (57, 27965), (59, 27995), (62, 28004), (67, 28031), (82, 28124), (86, 28148), (95, 28190), (97, 28202), (100, 28214), (117, 28274), (132, 28352), (138, 28406), (142, 28433), (150, 28511), (154, 28535), (164, 28604), (177, 28718), (178, 28721), (180, 28730), (191, 28784), (194, 28799), (195, 28805), (197, 28811), (198, 28817), (201, 28841), (204, 28859), (217, 28934),

Gene: Quammi_37 Start: 30337, Stop: 31488, Start Num: 26

Candidate Starts for Quammi_37:

(10, 29911), (19, 30241), (Start: 26 @30337 has 93 MA's), (40, 30370), (41, 30391), (44, 30409), (48, 30427), (67, 30547), (69, 30571), (95, 30703), (124, 30841), (140, 30970), (146, 31039), (155, 31093), (169, 31201), (176, 31252), (179, 31264), (201, 31381), (206, 31405), (210, 31438), (212, 31444), (219, 31477),

Gene: Quhwah_42 Start: 28248, Stop: 29450, Start Num: 26

Candidate Starts for Quhwah_42:

(Start: 26 @28248 has 93 MA's), (37, 28284), (44, 28341), (67, 28476), (69, 28500), (72, 28524), (77, 28548), (90, 28629), (92, 28635), (95, 28650), (104, 28704), (109, 28731), (114, 28743), (116, 28761), (130, 28848), (132, 28854), (139, 28917), (145, 28962), (160, 29073), (175, 29208), (176, 29223),

(180, 29241), (191, 29295), (194, 29310), (198, 29328), (206, 29376), (210, 29409), (215, 29436), (218, 29442),

Gene: Ramiel05_38 Start: 27651, Stop: 28853, Start Num: 26

Candidate Starts for Ramiel05_38:

(Start: 26 @27651 has 93 MA's), (37, 27687), (44, 27744), (67, 27879), (69, 27903), (72, 27927), (77, 27951), (90, 28032), (95, 28053), (104, 28107), (109, 28134), (112, 28140), (114, 28146), (116, 28164), (120, 28182), (130, 28251), (132, 28257), (139, 28320), (145, 28365), (154, 28437), (160, 28476), (175, 28611), (176, 28626), (180, 28644), (191, 28698), (194, 28713), (198, 28731), (206, 28779), (210, 28812), (215, 28839), (218, 28845),

Gene: Ranunculus_32 Start: 26857, Stop: 27990, Start Num: 33

Candidate Starts for Ranunculus_32:

(6, 26266), (11, 26464), (15, 26599), (21, 26755), (23, 26770), (Start: 33 @26857 has 1 MA's), (43, 26923), (48, 26944), (57, 26992), (59, 27022), (62, 27031), (67, 27058), (71, 27100), (76, 27127), (82, 27151), (86, 27175), (95, 27217), (97, 27229), (100, 27241), (117, 27301), (132, 27379), (138, 27433), (154, 27562), (178, 27748), (187, 27799), (191, 27811), (198, 27844), (201, 27868), (204, 27886), (213, 27949), (217, 27961),

Gene: Rasputia_74 Start: 49482, Stop: 50675, Start Num: 26

Candidate Starts for Rasputia_74:

(3, 48795), (Start: 25 @49479 has 3 MA's), (Start: 26 @49482 has 93 MA's), (39, 49524), (40, 49527), (47, 49575), (48, 49584), (61, 49674), (69, 49728), (72, 49752), (76, 49773), (77, 49776), (83, 49806), (95, 49866), (99, 49887), (104, 49920), (112, 49953), (114, 49959), (124, 50013), (130, 50064), (140, 50136), (154, 50250), (157, 50274), (161, 50307), (165, 50343), (179, 50460), (188, 50511), (191, 50520), (193, 50532), (194, 50535), (195, 50541), (202, 50583), (203, 50586), (205, 50598), (206, 50601), (210, 50634), (212, 50640),

Gene: RazzB_34 Start: 26111, Stop: 27244, Start Num: 35

Candidate Starts for RazzB_34:

(Start: 35 @26111 has 17 MA's), (43, 26177), (48, 26198), (57, 26246), (59, 26276), (62, 26285), (67, 26312), (82, 26405), (86, 26429), (95, 26471), (97, 26483), (100, 26495), (117, 26555), (132, 26633), (138, 26687), (142, 26714), (150, 26792), (154, 26816), (164, 26885), (177, 26999), (178, 27002), (194, 27080), (195, 27086), (197, 27092), (198, 27098), (201, 27122), (204, 27140), (217, 27215),

Gene: Ren19_31 Start: 26619, Stop: 27752, Start Num: 35

Candidate Starts for Ren19_31:

(Start: 35 @26619 has 17 MA's), (43, 26685), (48, 26706), (57, 26754), (59, 26784), (62, 26793), (63, 26796), (76, 26889), (82, 26913), (86, 26937), (95, 26979), (97, 26991), (100, 27003), (112, 27045), (129, 27123), (137, 27192), (138, 27195), (142, 27222), (150, 27300), (154, 27324), (175, 27486), (178, 27510), (187, 27561), (191, 27573), (194, 27588), (201, 27630), (204, 27648), (217, 27723),

Gene: Rizwana_31 Start: 26465, Stop: 27577, Start Num: 35

Candidate Starts for Rizwana_31:

(Start: 35 @26465 has 17 MA's), (62, 26639), (65, 26657), (67, 26666), (84, 26771), (86, 26783), (95, 26825), (99, 26846), (101, 26861), (114, 26897), (125, 26939), (136, 27026), (154, 27170), (172, 27305), (180, 27365), (195, 27440), (201, 27476), (204, 27494), (211, 27536), (217, 27566),

Gene: RobinRose_40 Start: 30131, Stop: 31279, Start Num: 26

Candidate Starts for RobinRose_40:

(10, 29705), (17, 29945), (18, 30020), (19, 30035), (Start: 25 @30128 has 3 MA's), (Start: 26 @30131 has 93 MA's), (40, 30164), (67, 30341), (69, 30365), (75, 30407), (81, 30431), (85, 30455), (95, 30497), (107, 30560), (120, 30617), (124, 30635), (133, 30707), (176, 31046), (179, 31058), (201, 31175),

(205, 31196), (209, 31226), (218, 31268),

Gene: RobsFeet_40 Start: 28276, Stop: 29433, Start Num: 30

Candidate Starts for RobsFeet_40:

(Start: 30 @28276 has 12 MA's), (45, 28363), (69, 28525), (74, 28558), (77, 28573), (81, 28591), (87, 28624), (95, 28663), (104, 28717), (113, 28744), (116, 28762), (120, 28780), (124, 28798), (130, 28846), (134, 28876), (136, 28888), (168, 29128), (181, 29242), (194, 29299), (204, 29359), (208, 29389), (210, 29398), (215, 29425),

Gene: Rockwell_38 Start: 27651, Stop: 28853, Start Num: 26

Candidate Starts for Rockwell_38:

(Start: 26 @27651 has 93 MA's), (37, 27687), (44, 27744), (67, 27879), (69, 27903), (72, 27927), (77, 27951), (90, 28032), (95, 28053), (104, 28107), (109, 28134), (112, 28140), (114, 28146), (116, 28164), (120, 28182), (130, 28251), (132, 28257), (139, 28320), (145, 28365), (160, 28476), (175, 28611), (176, 28626), (180, 28644), (191, 28698), (194, 28713), (198, 28731), (206, 28779), (210, 28812), (215, 28839), (218, 28845),

Gene: RomansRevenge_29 Start: 24847, Stop: 25974, Start Num: 35

Candidate Starts for RomansRevenge_29:

(Start: 35 @24847 has 17 MA's), (48, 24934), (66, 25045), (76, 25117), (82, 25141), (86, 25165), (95, 25207), (102, 25246), (114, 25279), (130, 25351), (132, 25357), (133, 25369), (136, 25396), (143, 25453), (146, 25498), (150, 25519), (154, 25543), (172, 25693), (178, 25744), (180, 25753), (182, 25771), (184, 25786), (191, 25807), (195, 25828), (201, 25864), (204, 25882),

Gene: Romm_40 Start: 30131, Stop: 31279, Start Num: 26

Candidate Starts for Romm_40:

(10, 29705), (17, 29945), (18, 30020), (19, 30035), (Start: 25 @30128 has 3 MA's), (Start: 26 @30131 has 93 MA's), (40, 30164), (67, 30341), (69, 30365), (75, 30407), (81, 30431), (85, 30455), (95, 30497), (107, 30560), (120, 30617), (124, 30635), (133, 30707), (176, 31046), (179, 31058), (201, 31175), (209, 31226), (218, 31268),

Gene: Rowlf_35 Start: 30509, Stop: 31660, Start Num: 26

Candidate Starts for Rowlf_35:

(5, 29933), (10, 30083), (19, 30413), (Start: 26 @30509 has 93 MA's), (40, 30542), (41, 30563), (44, 30581), (48, 30599), (67, 30719), (69, 30743), (95, 30875), (124, 31013), (140, 31142), (146, 31211), (155, 31265), (169, 31373), (176, 31424), (179, 31436), (201, 31553), (206, 31577), (210, 31610), (212, 31616), (219, 31649),

Gene: RubyRalph_41 Start: 30999, Stop: 32168, Start Num: 26

Candidate Starts for RubyRalph_41:

(Start: 26 @30999 has 93 MA's), (40, 31044), (46, 31089), (63, 31197), (69, 31245), (88, 31347), (89, 31362), (93, 31380), (95, 31386), (103, 31437), (118, 31500), (130, 31578), (145, 31695), (166, 31842), (176, 31935), (177, 31941), (179, 31947), (182, 31971), (183, 31974), (186, 31992), (191, 32007), (194, 32022), (209, 32115),

Gene: Rudy_37 Start: 30370, Stop: 31521, Start Num: 26

Candidate Starts for Rudy_37:

(10, 29944), (19, 30274), (Start: 26 @30370 has 93 MA's), (40, 30403), (41, 30424), (44, 30442), (48, 30460), (67, 30580), (69, 30604), (95, 30736), (124, 30874), (140, 31003), (146, 31072), (155, 31126), (169, 31234), (176, 31285), (179, 31297), (201, 31414), (206, 31438), (210, 31471), (212, 31477), (219, 31510),

Gene: SadLad_43 Start: 31942, Stop: 33111, Start Num: 26

Candidate Starts for SadLad_43:

(3, 31252), (Start: 26 @31942 has 93 MA's), (40, 31987), (46, 32032), (63, 32140), (69, 32188), (88, 32290), (89, 32305), (93, 32323), (95, 32329), (103, 32380), (118, 32443), (130, 32521), (145, 32638), (166, 32785), (176, 32878), (177, 32884), (179, 32890), (182, 32914), (183, 32917), (186, 32935), (191, 32950), (194, 32965), (209, 33058),

Gene: SallyK_40 Start: 31320, Stop: 32471, Start Num: 26

Candidate Starts for SallyK_40:

(5, 30744), (10, 30894), (19, 31224), (Start: 26 @31320 has 93 MA's), (40, 31353), (41, 31374), (44, 31392), (48, 31410), (67, 31530), (69, 31554), (95, 31686), (124, 31824), (140, 31953), (146, 32022), (155, 32076), (169, 32184), (176, 32235), (179, 32247), (201, 32364), (206, 32388), (210, 32421), (219, 32460),

Gene: Savannah_38 Start: 27678, Stop: 28880, Start Num: 26

Candidate Starts for Savannah_38:

(Start: 26 @27678 has 93 MA's), (37, 27714), (44, 27771), (56, 27834), (67, 27906), (69, 27930), (72, 27954), (77, 27978), (90, 28059), (95, 28080), (104, 28134), (109, 28161), (112, 28167), (114, 28173), (116, 28191), (120, 28209), (130, 28278), (132, 28284), (139, 28347), (145, 28392), (160, 28503), (175, 28638), (176, 28653), (180, 28671), (191, 28725), (194, 28740), (198, 28758), (206, 28806), (210, 28839), (215, 28866), (218, 28872),

Gene: Scumberland_40 Start: 27873, Stop: 29075, Start Num: 26

Candidate Starts for Scumberland_40:

(Start: 26 @27873 has 93 MA's), (37, 27909), (44, 27966), (67, 28101), (69, 28125), (72, 28149), (77, 28173), (90, 28254), (95, 28275), (104, 28329), (109, 28356), (112, 28362), (114, 28368), (116, 28386), (120, 28404), (130, 28473), (132, 28479), (139, 28542), (145, 28587), (160, 28698), (175, 28833), (176, 28848), (180, 28866), (191, 28920), (194, 28935), (198, 28953), (206, 29001), (210, 29034), (215, 29061), (218, 29067),

Gene: Selwyn23_40 Start: 27850, Stop: 29052, Start Num: 26

Candidate Starts for Selwyn23_40:

(Start: 26 @27850 has 93 MA's), (37, 27886), (44, 27943), (67, 28078), (69, 28102), (72, 28126), (77, 28150), (90, 28231), (95, 28252), (104, 28306), (109, 28333), (112, 28339), (114, 28345), (116, 28363), (120, 28381), (130, 28450), (132, 28456), (139, 28519), (145, 28564), (154, 28636), (160, 28675), (175, 28810), (176, 28825), (180, 28843), (191, 28897), (194, 28912), (198, 28930), (204, 28972), (206, 28978), (210, 29011), (215, 29038), (218, 29044),

Gene: Shotgun_38 Start: 27477, Stop: 28679, Start Num: 26

Candidate Starts for Shotgun_38:

(Start: 26 @27477 has 93 MA's), (37, 27513), (44, 27570), (56, 27633), (67, 27705), (69, 27729), (72, 27753), (77, 27777), (90, 27858), (95, 27879), (104, 27933), (109, 27960), (112, 27966), (114, 27972), (116, 27990), (120, 28008), (130, 28077), (132, 28083), (139, 28146), (145, 28191), (160, 28302), (175, 28437), (176, 28452), (180, 28470), (191, 28524), (194, 28539), (198, 28557), (206, 28605), (210, 28638), (215, 28665), (218, 28671),

Gene: Shrubaron_39 Start: 27910, Stop: 29067, Start Num: 30

Candidate Starts for Shrubaron_39:

(Start: 30 @27910 has 12 MA's), (45, 27997), (69, 28159), (74, 28192), (77, 28207), (81, 28225), (87, 28258), (95, 28297), (104, 28351), (113, 28378), (116, 28396), (120, 28414), (124, 28432), (130, 28480), (134, 28510), (136, 28522), (168, 28762), (181, 28876), (194, 28933), (204, 28993), (208, 29023), (210, 29032), (215, 29059),

Gene: SilentRX_33 Start: 27115, Stop: 28230, Start Num: 35

Candidate Starts for SilentRX_33:

(Start: 35 @27115 has 17 MA's), (48, 27202), (54, 27235), (55, 27244), (62, 27289), (65, 27307), (67, 27316), (68, 27319), (69, 27340), (76, 27385), (82, 27409), (83, 27418), (95, 27475), (125, 27589), (142, 27718), (144, 27745), (145, 27748), (154, 27820), (159, 27859), (169, 27946), (172, 27955), (184, 28048), (191, 28069), (195, 28090), (198, 28102), (201, 28126), (204, 28144), (210, 28186),

Gene: Sillytadpoles_39 Start: 30210, Stop: 31361, Start Num: 26

Candidate Starts for Sillytadpoles_39:

(5, 29634), (10, 29784), (19, 30114), (Start: 26 @30210 has 93 MA's), (40, 30243), (41, 30264), (44, 30282), (48, 30300), (67, 30420), (69, 30444), (95, 30576), (124, 30714), (140, 30843), (146, 30912), (155, 30966), (169, 31074), (176, 31125), (179, 31137), (201, 31254), (206, 31278), (210, 31311), (219, 31350),

Gene: SirFrank_38 Start: 27533, Stop: 28732, Start Num: 26

Candidate Starts for SirFrank_38:

(Start: 26 @27533 has 93 MA's), (32, 27545), (44, 27626), (67, 27761), (68, 27764), (69, 27785), (72, 27809), (77, 27833), (95, 27935), (104, 27989), (109, 28016), (112, 28022), (114, 28028), (120, 28064), (130, 28133), (132, 28139), (139, 28202), (158, 28352), (175, 28493), (180, 28526), (191, 28580), (194, 28595), (198, 28613), (204, 28655), (206, 28661), (215, 28721), (216, 28724),

Gene: Skugga_37 Start: 27334, Stop: 28485, Start Num: 30

Candidate Starts for Skugga_37:

(Start: 30 @27334 has 12 MA's), (45, 27409), (47, 27415), (69, 27571), (72, 27595), (83, 27649), (87, 27670), (95, 27709), (104, 27763), (113, 27790), (120, 27826), (124, 27844), (127, 27862), (130, 27892), (131, 27895), (136, 27934), (139, 27961), (149, 28042), (167, 28168), (168, 28174), (172, 28216), (176, 28258), (179, 28270), (181, 28288), (192, 28339), (194, 28345), (196, 28354), (204, 28405), (210, 28444), (214, 28468),

Gene: SlySloth_41 Start: 31206, Stop: 32357, Start Num: 26

Candidate Starts for SlySloth_41:

(5, 30630), (10, 30780), (19, 31110), (Start: 26 @31206 has 93 MA's), (40, 31239), (41, 31260), (44, 31278), (48, 31296), (67, 31416), (69, 31440), (95, 31572), (124, 31710), (140, 31839), (146, 31908), (155, 31962), (169, 32070), (176, 32121), (179, 32133), (201, 32250), (206, 32274), (210, 32307), (212, 32313), (219, 32346),

Gene: Smarties_47 Start: 29437, Stop: 30585, Start Num: 30

Candidate Starts for Smarties_47:

(Start: 30 @29437 has 12 MA's), (45, 29512), (47, 29518), (50, 29542), (68, 29653), (83, 29752), (95, 29812), (104, 29866), (113, 29893), (120, 29929), (124, 29947), (130, 29995), (131, 29998), (134, 30025), (136, 30037), (139, 30064), (167, 30271), (168, 30277), (172, 30319), (176, 30361), (181, 30391), (194, 30448), (204, 30508), (207, 30535), (209, 30541), (210, 30547),

Gene: Squash_41 Start: 31272, Stop: 32423, Start Num: 26

Candidate Starts for Squash_41:

(19, 31176), (Start: 26 @31272 has 93 MA's), (40, 31305), (41, 31326), (44, 31344), (48, 31362), (67, 31482), (69, 31506), (95, 31638), (124, 31776), (140, 31905), (146, 31974), (155, 32028), (169, 32136), (176, 32187), (179, 32199), (201, 32316), (206, 32340), (210, 32373), (212, 32379), (219, 32412),

Gene: Statler_40 Start: 31123, Stop: 32274, Start Num: 26

Candidate Starts for Statler_40:

(Start: 26 @31123 has 93 MA's), (40, 31156), (41, 31177), (44, 31195), (48, 31213), (67, 31333), (69, 31357), (95, 31489), (124, 31627), (140, 31756), (146, 31825), (155, 31879), (169, 31987), (176,

32038), (179, 32050), (201, 32167), (206, 32191), (210, 32224), (212, 32230), (219, 32263),

Gene: StrawberryJamm_41 Start: 30571, Stop: 31722, Start Num: 26

Candidate Starts for StrawberryJamm_41:

(5, 29995), (10, 30145), (19, 30475), (Start: 26 @30571 has 93 MA's), (40, 30604), (41, 30625), (44, 30643), (48, 30661), (67, 30781), (69, 30805), (95, 30937), (124, 31075), (140, 31204), (146, 31273), (155, 31327), (169, 31435), (176, 31486), (179, 31498), (201, 31615), (206, 31639), (210, 31672), (212, 31678), (219, 31711),

Gene: Sunfish_46 Start: 32026, Stop: 33138, Start Num: 36

Candidate Starts for Sunfish_46:

(22, 31921), (Start: 25 @31987 has 3 MA's), (Start: 36 @32026 has 1 MA's), (38, 32047), (57, 32158), (86, 32356), (88, 32365), (96, 32401), (122, 32485), (139, 32605), (143, 32635), (148, 32686), (153, 32719), (164, 32794), (191, 32965), (192, 32974), (197, 32992), (200, 33016), (201, 33025), (204, 33043), (220, 33133),

Gene: Sunny_ Start: 29432, Stop: 30676, Start Num: 26

Candidate Starts for Sunny_:

(18, 29324), (19, 29339), (Start: 24 @29429 has 1 MA's), (Start: 26 @29432 has 93 MA's), (39, 29483), (40, 29486), (42, 29516), (48, 29543), (49, 29546), (67, 29666), (69, 29690), (77, 29738), (94, 29837), (95, 29843), (112, 29930), (120, 29972), (124, 29990), (129, 30029), (130, 30041), (146, 30182), (148, 30188), (160, 30296), (165, 30341), (172, 30404), (176, 30446), (177, 30452), (192, 30527), (194, 30533), (195, 30539), (204, 30593), (210, 30632), (215, 30659), (218, 30665),

Gene: Tank_33 Start: 26768, Stop: 27895, Start Num: 35

Candidate Starts for Tank_33:

(Start: 35 @26768 has 17 MA's), (65, 26960), (67, 26969), (82, 27062), (84, 27074), (86, 27086), (95, 27128), (97, 27140), (100, 27152), (119, 27221), (125, 27242), (133, 27302), (136, 27329), (154, 27473), (164, 27554), (169, 27611), (172, 27620), (180, 27680), (198, 27767), (201, 27791), (204, 27809), (211, 27854), (217, 27884),

Gene: Teamocil_40 Start: 27417, Stop: 28568, Start Num: 30

Candidate Starts for Teamocil_40:

(Start: 30 @27417 has 12 MA's), (45, 27492), (47, 27498), (68, 27633), (69, 27654), (72, 27678), (83, 27732), (87, 27753), (95, 27792), (104, 27846), (113, 27873), (120, 27909), (124, 27927), (127, 27945), (130, 27975), (131, 27978), (134, 28005), (136, 28017), (139, 28044), (149, 28125), (168, 28257), (172, 28299), (176, 28341), (179, 28353), (181, 28371), (192, 28422), (194, 28428), (196, 28437), (200, 28461), (204, 28488), (206, 28494), (209, 28521), (210, 28527), (214, 28551),

Gene: Teehee_40 Start: 31443, Stop: 32594, Start Num: 26

Candidate Starts for Teehee_40:

(10, 31017), (19, 31347), (Start: 26 @31443 has 93 MA's), (40, 31476), (41, 31497), (44, 31515), (48, 31533), (67, 31653), (69, 31677), (95, 31809), (124, 31947), (140, 32076), (146, 32145), (155, 32199), (169, 32307), (176, 32358), (179, 32370), (201, 32487), (206, 32511), (210, 32544), (212, 32550), (219, 32583),

Gene: Tempo_38 Start: 30007, Stop: 31155, Start Num: 26

Candidate Starts for Tempo_38:

(10, 29581), (17, 29821), (18, 29896), (19, 29911), (Start: 25 @30004 has 3 MA's), (Start: 26 @30007 has 93 MA's), (40, 30040), (67, 30217), (69, 30241), (75, 30283), (81, 30307), (85, 30331), (95, 30373), (107, 30436), (120, 30493), (124, 30511), (133, 30583), (176, 30922), (179, 30934), (201, 31051), (209, 31102), (218, 31144),

Gene: Terij_35 Start: 26372, Stop: 27604, Start Num: 26

Candidate Starts for Terij_35:

(Start: 26 @26372 has 93 MA's), (34, 26408), (37, 26426), (45, 26486), (48, 26501), (70, 26657), (77, 26690), (81, 26708), (95, 26792), (97, 26804), (104, 26846), (111, 26879), (114, 26885), (127, 26957), (130, 26990), (144, 27101), (145, 27104), (161, 27236), (165, 27272), (167, 27287), (180, 27395), (191, 27449), (192, 27458), (194, 27464), (195, 27470), (198, 27482), (204, 27524), (206, 27530), (210, 27563), (214, 27587), (216, 27593),

Gene: Tissue_39 Start: 30948, Stop: 32099, Start Num: 26

Candidate Starts for Tissue_39:

(5, 30372), (10, 30522), (19, 30852), (Start: 26 @30948 has 93 MA's), (40, 30981), (41, 31002), (44, 31020), (48, 31038), (67, 31158), (69, 31182), (95, 31314), (124, 31452), (140, 31581), (146, 31650), (155, 31704), (169, 31812), (176, 31863), (179, 31875), (201, 31992), (206, 32016), (210, 32049), (219, 32088),

Gene: Tyrumbra_37 Start: 28055, Stop: 29212, Start Num: 30

Candidate Starts for Tyrumbra_37:

(Start: 30 @28055 has 12 MA's), (48, 28157), (69, 28304), (72, 28328), (74, 28337), (81, 28370), (95, 28442), (104, 28496), (113, 28523), (120, 28559), (123, 28571), (130, 28625), (136, 28667), (144, 28736), (168, 28907), (176, 28991), (180, 29009), (181, 29021), (194, 29078), (204, 29138), (209, 29171), (210, 29177), (215, 29204),

Gene: Viceroy_37 Start: 30340, Stop: 31491, Start Num: 26

Candidate Starts for Viceroy_37:

(10, 29914), (19, 30244), (Start: 26 @30340 has 93 MA's), (40, 30373), (41, 30394), (44, 30412), (48, 30430), (67, 30550), (69, 30574), (95, 30706), (124, 30844), (140, 30973), (146, 31042), (155, 31096), (169, 31204), (176, 31255), (179, 31267), (201, 31384), (206, 31408), (210, 31441), (212, 31447), (219, 31480),

Gene: Wayne3_40 Start: 31206, Stop: 32357, Start Num: 26

Candidate Starts for Wayne3_40:

(10, 30780), (19, 31110), (Start: 26 @31206 has 93 MA's), (40, 31239), (41, 31260), (44, 31278), (48, 31296), (67, 31416), (69, 31440), (95, 31572), (124, 31710), (140, 31839), (146, 31908), (155, 31962), (169, 32070), (176, 32121), (179, 32133), (201, 32250), (206, 32274), (210, 32307), (212, 32313), (219, 32346),

Gene: WheelerS25_44 Start: 31966, Stop: 33117, Start Num: 26

Candidate Starts for WheelerS25_44:

(19, 31870), (Start: 26 @31966 has 93 MA's), (40, 31999), (41, 32020), (44, 32038), (48, 32056), (67, 32176), (69, 32200), (92, 32323), (95, 32332), (124, 32470), (140, 32599), (146, 32668), (155, 32722), (169, 32830), (176, 32881), (179, 32893), (201, 33010), (206, 33034), (210, 33067), (219, 33106),

Gene: Wheelie_38 Start: 30527, Stop: 31678, Start Num: 26

Candidate Starts for Wheelie_38:

(5, 29951), (10, 30101), (19, 30431), (Start: 26 @30527 has 93 MA's), (40, 30560), (41, 30581), (44, 30599), (48, 30617), (67, 30737), (69, 30761), (95, 30893), (124, 31031), (140, 31160), (146, 31229), (155, 31283), (169, 31391), (176, 31442), (179, 31454), (201, 31571), (206, 31595), (210, 31628), (219, 31667),

Gene: Wilca_38 Start: 29203, Stop: 30351, Start Num: 26

Candidate Starts for Wilca_38:

(19, 29107), (Start: 25 @29200 has 3 MA's), (Start: 26 @29203 has 93 MA's), (40, 29236), (42, 29266), (85, 29527), (93, 29563), (95, 29569), (103, 29620), (110, 29644), (112, 29647), (116, 29671), (120,

29689), (123, 29701), (124, 29707), (145, 29878), (148, 29911), (156, 29968), (162, 29983), (174, 30100), (176, 30118), (177, 30124), (179, 30130), (191, 30190), (210, 30304), (212, 30310),

Gene: Wilde_33 Start: 26610, Stop: 27737, Start Num: 35

Candidate Starts for Wilde_33:

(Start: 35 @26610 has 17 MA's), (65, 26802), (67, 26811), (82, 26904), (84, 26916), (86, 26928), (95, 26970), (97, 26982), (100, 26994), (119, 27063), (125, 27084), (133, 27144), (136, 27171), (154, 27315), (164, 27396), (169, 27453), (172, 27462), (180, 27522), (198, 27609), (201, 27633), (204, 27651), (211, 27696), (217, 27726),

Gene: Yeti_39 Start: 27652, Stop: 28854, Start Num: 26

Candidate Starts for Yeti_39:

(Start: 26 @27652 has 93 MA's), (37, 27688), (44, 27745), (67, 27880), (69, 27904), (72, 27928), (77, 27952), (90, 28033), (95, 28054), (104, 28108), (109, 28135), (112, 28141), (114, 28147), (116, 28165), (120, 28183), (130, 28252), (132, 28258), (139, 28321), (145, 28366), (154, 28438), (160, 28477), (175, 28612), (176, 28627), (180, 28645), (191, 28699), (194, 28714), (198, 28732), (204, 28774), (206, 28780), (210, 28813), (215, 28840), (218, 28846),

Gene: Zagie_38 Start: 30775, Stop: 31926, Start Num: 26

Candidate Starts for Zagie_38:

(5, 30199), (10, 30349), (19, 30679), (Start: 26 @30775 has 93 MA's), (40, 30808), (41, 30829), (44, 30847), (48, 30865), (67, 30985), (69, 31009), (95, 31141), (124, 31279), (146, 31477), (155, 31531), (169, 31639), (176, 31690), (179, 31702), (201, 31819), (206, 31843), (210, 31876), (212, 31882), (219, 31915),

Gene: Zapato_38 Start: 27878, Stop: 29026, Start Num: 30

Candidate Starts for Zapato_38:

(Start: 30 @27878 has 12 MA's), (45, 27953), (47, 27959), (50, 27983), (68, 28094), (69, 28115), (83, 28193), (95, 28253), (104, 28307), (113, 28334), (120, 28370), (124, 28388), (126, 28403), (130, 28436), (131, 28439), (134, 28466), (136, 28478), (139, 28505), (167, 28712), (168, 28718), (172, 28760), (176, 28802), (181, 28832), (194, 28889), (195, 28895), (204, 28949), (209, 28982), (210, 28988),

Gene: Zhafia_41 Start: 31005, Stop: 32156, Start Num: 26

Candidate Starts for Zhafia_41:

(5, 30429), (10, 30579), (19, 30909), (Start: 26 @31005 has 93 MA's), (40, 31038), (41, 31059), (44, 31077), (48, 31095), (67, 31215), (69, 31239), (95, 31371), (124, 31509), (140, 31638), (146, 31707), (155, 31761), (169, 31869), (176, 31920), (179, 31932), (201, 32049), (206, 32073), (210, 32106), (219, 32145),