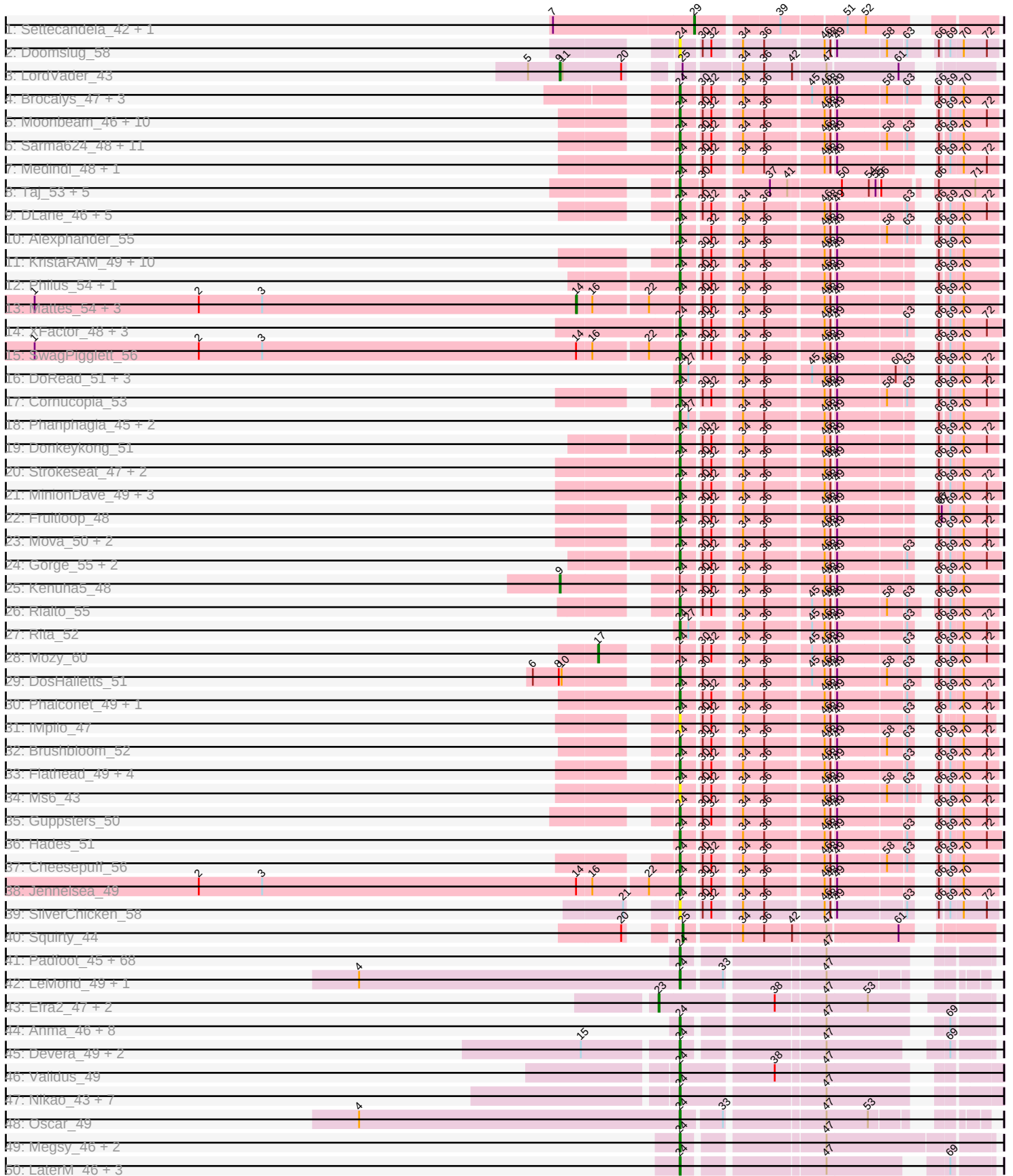


Pham 330455



Pham 330455



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 330455 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330455 has 243 members, 19 are drafts.

Phages represented in each track:

- Track 1 : Settecandela_42, Phrappuccino_42
- Track 2 : Doomslug_58
- Track 3 : LordVader_43
- Track 4 : Brocalys_47, Pippy_50, Clifton_47, LastJedi_46
- Track 5 : Moonbeam_46, EleanorGeorge_48, Ardmore_41, Mutaforma13_53, Whatsapiecost_49, Batiatus_48, MilleniumForce_50, Emma_50, Juice456_52, Soul22_54, Filuzino_48
- Track 6 : Sarma624_48, Minnie_55, Kingsley_47, Velveteen_45, Spartacus_52, BigPhil_46, Violac_53, WillSterrel_51, Brookers_47, Cerasum_46, Coco12_49, IrishSherpFalk_51
- Track 7 : Medindi_48, Ovechkin_47
- Track 8 : Taj_53, Estave1_50, Renaud18_55, DeadP_55, Blarby_61, Wee_52
- Track 9 : DLane_46, Corium_47, Akhila_42, KingJulian_49, MilanaBonita_42, PatoPoderoso_47
- Track 10 : Alexphander_55
- Track 11 : KristaRAM_49, ShroomBoi_50, Enzomatic_58, LunaBlu_54, SuperGrey_50, Wachhund_52, NewHope4_53, Polo2Bam_57, Galactic_51, SeaLumen_56, Clank_53
- Track 12 : Philus_54, DRBy19_54
- Track 13 : Mattes_54, Zizzle_56, James_54, BobaPhett_54
- Track 14 : XFactor_48, StAnnes_49, Melissauren88_48, Bobi_52
- Track 15 : SwagPigglett_56
- Track 16 : DoRead_51, Juniper1_48, Byougenkin_48, SimranZ1_49
- Track 17 : Cornucopia_53
- Track 18 : Phanphagia_45, Shauna1_45, Bipolar_47
- Track 19 : Donkeykong_51
- Track 20 : Strokeseat_47, Hlubikazi_47, Mandlovu_47
- Track 21 : MinionDave_49, CaptainTrips_47, Beakin_52, Hegedechwinu_50
- Track 22 : Fruitloop_48
- Track 23 : Mova_50, VRedHorse_50, Okabe_45
- Track 24 : Gorge_55, Saal_53, ByChance_42
- Track 25 : Kenuha5_48
- Track 26 : Rialto_55
- Track 27 : Rita_52
- Track 28 : Mozy_60
- Track 29 : DosHalletts_51
- Track 30 : Phalconet_49, PhesterPhotato_52

- Track 31 : IMpilo_47
- Track 32 : Brushbloom_52
- Track 33 : Flathead_49, SG4_47, Jant_54, Enby_51, Lorde_51
- Track 34 : Ms6_43
- Track 35 : Guppsters_50
- Track 36 : Hades_51
- Track 37 : Cheesepuff_56
- Track 38 : Jennelsea_49
- Track 39 : SilverChicken_58
- Track 40 : Squirty_44
- Track 41 : Padfoot_45, ActinUp_45, Llorens_45, Beezoo_47, Jayhawk_46, BarrelRoll_45, Dalmuri_45, Tiri_46, Topper_45, Jeckyll_45, AlishaPH_45, Rosmarinus_45, CREW_45, Homura_45, Geraldini_47, Ganymede_46, Boiii_45, Deby_45, BGlluviae_45, Joy99_45, MacKat_40, Apocalypse_48, Asayake_45, CheetoDust_44, Bern_46, Blizzard_45, CallaLilly_45, Atiba_45, Veliki_45, Rapunzel97_45, Slimphazie_45, BEEEST_45, Adephagia_45, Zavala_46, Zabiza_40, Mynx_46, Pokerus_44, Inky_45, Padpat_46, Prithvi_46, JAWS_45, Lunahalos_45, CaseJules_46, TreyKay_46, BaghaKamala_44, Anaya_47, Hyperbowlee_45, HedwigODU_45, MeaningOfLife_46, Emerson_46, QuincyRose_44, ShiaSurprise_46, Durfee_45, YoureAdopted_44, Spock_45, Piatt_45, TruffulaTree_45, Sulley_45, Angelica_45, Chavito_48, Clipper_48, Belladonna_45, Jarvi_45, Tachez_45, Twitch_45, Adonis_45, Capricorn_45, Peel_45, Ramen_45
- Track 42 : LeMond_49, Scarlett_49
- Track 43 : Efra2_47, Guanica15_47, Yunkel11_47
- Track 44 : Anma_46, DartGoblin_47, Bella96_46, Urkel_46, Pisa1_45, Pisa4_39, SamuelLPlaqueson_46, TiniBug_46, DrHayes_46
- Track 45 : Devera_49, Illumine_48, Dole_48
- Track 46 : Validus_49
- Track 47 : Nikao_43, Nutello_40, Amelie_40, Torres_43, LilPharaoh_40, SgtBeansprout_40, Binglebops_40, Mdavu_41
- Track 48 : Oscar_49
- Track 49 : Megsy_46, ZoeJ_47, TaiwanKao_47
- Track 50 : LaterM_46, Ageofdapage_47, Murucutumbu_46, Stinson_46
- Track 51 : Dartin_47, Richo_47, McMater_47
- Track 52 : Chris_47
- Track 53 : KiSi_49
- Track 54 : Nibb_47
- Track 55 : Niklas_47, Shaobing_47, Peanam_47
- Track 56 : MarkPhew_48
- Track 57 : CrimD_45
- Track 58 : Findley_48, Strobilo_48, Milly_48
- Track 59 : Doughnut_48, BoostSeason_48, Mufasa_48
- Track 60 : DismalStressor_48, Marcoliusprime_48, DismalFunk_48
- Track 61 : TM4_43
- Track 62 : Marshawn_48
- Track 63 : TClif_49
- Track 64 : Stellammi_65
- Track 65 : LilSpotty_48
- Track 66 : MooMoo_46, TChen_50, LunaStella_48

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

The start number called the most often in the published annotations is 24, it was called in 209 of the 224 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_45, Adephagia_45, Adonis_45, Ageofdapage_47, Akhila_42, Alexphander_55, AlishaPH_45, Amelie_40, Anaya_47, Angelica_45, Anma_46, Apocalypse_48, Ardmore_41, Asayake_45, Atiba_45, BEEST_45, BGlluviae_45, BaghaKamala_44, BarrelRoll_45, Batiatius_48, Beakin_52, Beezoo_47, Bella96_46, Belladonna_45, Bern_46, BigPhil_46, Binglebops_40, Bipolar_47, Blarby_61, Blizzard_45, Bobi_52, Boiii_45, BoostSeason_48, Brocalys_47, Brookers_47, Brushbloom_52, ByChance_42, Byougenkin_48, CREW_45, CallaLilly_45, Capricorn_45, CaptainTrips_47, CaseJules_46, Cerasum_46, Chavito_48, Cheesepuff_56, CheetoDust_44, Chris_47, Clank_53, Clifton_47, Clipper_48, Coco12_49, Corium_47, Cornucopia_53, CrimD_45, DLane_46, DRBy19_54, Dalmuri_45, DartGoblin_47, Dartin_47, DeadP_55, Deby_45, Devera_49, DismalFunk_48, DismalStressor_48, DoRead_51, Dole_48, Donkeykong_51, Doomslug_58, DosHalletts_51, Doughnut_48, DrHayes_46, Durfee_45, EleanorGeorge_48, Emerson_46, Emma_50, Enby_51, Enzomatic_58, Estave1_50, Filuzino_48, Findley_48, Flathead_49, Fruitloop_48, Galactic_51, Ganymede_46, Geraldini_47, Gorge_55, Guppsters_50, Hades_51, HedwigODU_45, Hegedechwinu_50, Hlubikazi_47, Homura_45, Hyperbowlee_45, IMpilo_47, Illumine_48, Inky_45, IrishSherpFalk_51, JAWS_45, Jant_54, Jarvi_45, Jayhawk_46, Jeckyll_45, Jennelsea_49, Joy99_45, Juice456_52, Juniper1_48, KiSi_49, KingJulian_49, Kingsley_47, KristaRAM_49, LastJedi_46, LaterM_46, LeMond_49, LilPharaoh_40, Llorens_45, Lorde_51, LunaBlu_54, LunaStella_48, Lunahalos_45, MacKat_40, Mandlovu_47, Marcoliusprime_48, MarkPhew_48, Marshawn_48, McMater_47, Mdavu_41, MeaningOfLife_46, Medindi_48, Megsy_46, Melissauren88_48, MilanaBonita_42, MilleniumForce_50, Milly_48, MinionDave_49, Minnie_55, MooMoo_46, Moonbeam_46, Mova_50, Ms6_43, Mufasa_48, Murucutumbu_46, Mutaforma13_53, Mynx_46, NewHope4_53, Nibb_47, Nikao_43, Niklas_47, Nutello_40, Okabe_45, Oscar_49, Ovechkin_47, Padfoot_45, Padpat_46, PatoPoderoso_47, Peanam_47, Peel_45, Phalconet_49, Phanphagia_45, PhesterPhotato_52, Philus_54, Piatt_45, Pippy_50, Pisa1_45, Pisa4_39, Pokerus_44, Polo2Bam_57, Prithvi_46, QuincyRose_44, Ramen_45, Rapunzel97_45, Renaud18_55, Rialto_55, Richo_47, Rita_52, Rosmarinus_45, SG4_47, Saal_53, SamuelLPlaqson_46, Sarma624_48, Scarlett_49, SeaLumen_56, SgtBeansprout_40, Shaobing_47, Shauna1_45, ShiaSurprise_46, ShroomBoi_50, SilverChicken_58, SimranZ1_49, Slimphazie_45, Soul22_54, Spartacus_52, Spock_45, StAnnes_49, Stinson_46, Strobilo_48, Strokeseat_47, Sulley_45, SuperGrey_50, SwagPigglett_56, TChen_50, TClif_49, TM4_43, Tachez_45, TaiwanKao_47, Taj_53, TiniBug_46, Tiri_46, Topper_45, Torres_43, TreyKay_46, TruffulaTree_45, Twitch_45, Urkel_46, VRedHorse_50, Validus_49, Veliki_45, Velveteen_45, Violac_53, Wachhund_52, Wee_52, Whatsapiecost_49, WillSterrel_51, XFactor_48, YoureAdopted_44, Zabiza_40, Zavala_46, ZoeJ_47,

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

- BobaPhett_54, James_54, Kenuha5_48, Mattes_54, Mozy_60, Zizzle_56,

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

- Efra2_47, Guanica15_47, LilSpotty_48, LordVader_43, Phrappuccino_42, Settecandela_42, Squirty_44, Stellammi_65, Yunkel11_47,

Summary by start number:

Start 9:

- Found in 2 of 243 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kenuha5_48 (F1), LordVader_43 (F),

Start 14:

- Found in 6 of 243 (2.5%) of genes in pham
- Manual Annotations of this start: 4 of 224
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BobaPhett_54 (F1), James_54 (F1), Mattes_54 (F1), Zizzle_56 (F1),

Start 17:

- Found in 1 of 243 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mozy_60 (F1),

Start 23:

- Found in 3 of 243 (1.2%) of genes in pham
- Manual Annotations of this start: 3 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Efra2_47 (K1), Guanica15_47 (K1), Yunkel11_47 (K1),

Start 24:

- Found in 234 of 243 (96.3%) of genes in pham
- Manual Annotations of this start: 209 of 224
- Called 97.4% of time when present
- Phage (with cluster) where this start called: ActinUp_45 (K1), Adephagia_45 (K1), Adonis_45 (K1), Ageofdapage_47 (K1), Akhila_42 (F1), Alexphander_55 (F1), AlishaPH_45 (K1), Amelie_40 (K1), Anaya_47 (K1), Angelica_45 (K1), Anma_46 (K1), Apocalypse_48 (K1), Ardmore_41 (F1), Asayake_45 (K1), Atiba_45 (K1), BEEST_45 (K1), BGlluviae_45 (K1), BaghaKamala_44 (K1), BarrelRoll_45 (K1), Batiatus_48 (F1), Beakin_52 (F1), Beezoo_47 (K1), Bella96_46 (K1), Belladonna_45 (K1), Bern_46 (K1), BigPhil_46 (F1), Binglebops_40 (K1), Bipolar_47 (F1), Blarby_61 (F), Blizzard_45 (K1), Bobi_52 (F1), Boiii_45 (K1), BoostSeason_48 (K2), Brocalys_47 (F1), Brookers_47 (F1), Brushbloom_52 (F1), ByChance_42 (F1), Byougenkin_48 (F1), CREW_45 (K1), CallaLilly_45 (K1), Capricorn_45 (K1), CaptainTrips_47 (F1), CaseJules_46 (K1), Cerasum_46 (F1), Chavito_48 (K1), Cheesepuff_56 (F1), CheetoDust_44 (K1), Chris_47 (K1), Clank_53 (F), Clifton_47 (F1), Clipper_48 (K1), Coco12_49 (F1), Corium_47 (F1), Cornucopia_53 (F1), CrimD_45 (K1), DLane_46 (F1), DRBy19_54 (F1), Dalmuri_45 (K1), DartGoblin_47 (K1), Dartin_47 (K1), DeadP_55 (F1), Deby_45 (K1), Devera_49 (K1), DismalFunk_48 (K2), DismalStressor_48 (K2), DoRead_51 (F1), Dole_48 (K1), Donkeykong_51 (F1), Doomslug_58 (F), DosHalletts_51 (F1), Doughnut_48 (K2), DrHayes_46 (K1), Durfee_45 (K1), EleanorGeorge_48 (F1), Emerson_46 (K1), Emma_50 (F1), Enby_51 (F1), Enzomatic_58 (F1), Estave1_50 (F1), Filuzino_48 (F1), Findley_48 (K2), Flathead_49 (F1), Fruitloop_48 (F1), Galactic_51 (F1), Ganymede_46 (K1), Geraldini_47 (K1), Gorge_55 (F1), Guppsters_50 (F1),

Hades_51 (F1), HedwigODU_45 (K1), Hegedechwinu_50 (F1), Hlubikazi_47 (F1), Homura_45 (K1), Hyperbowlee_45 (K1), IMpilo_47 (F1), Illumine_48 (K1), Inky_45 (K1), IrishSherpFalk_51 (F1), JAWS_45 (K1), Jant_54 (F1), Jarvi_45 (K1), Jayhawk_46 (K1), Jeckyll_45 (K1), Jennelsea_49 (F1), Joy99_45 (K1), Juice456_52 (F1), Juniper1_48 (F1), KiSi_49 (K1), KingJulian_49 (F1), Kingsley_47 (F1), KristaRAM_49 (F1), LastJedi_46 (F1), LaterM_46 (K1), LeMond_49 (K1), LilPharaoh_40 (K1), Llorens_45 (K1), Lorde_51 (F1), LunaBlu_54 (F1), LunaStella_48 (F4), Lunahalos_45 (K1), MacKat_40 (K1), Mandlovu_47 (F1), Marcoliusprime_48 (K2), MarkPhew_48 (K1), Marshawn_48 (K6), McMater_47 (K1), Mdavu_41 (K1), MeaningOfLife_46 (K1), Medindi_48 (F1), Megsy_46 (K1), Melissauren88_48 (F1), MilanaBonita_42 (F1), MilleniumForce_50 (F1), Milly_48 (K2), MinionDave_49 (F1), Minnie_55 (F1), MooMoo_46 (singleton), Moonbeam_46 (F1), Mova_50 (F1), Ms6_43 (F1), Mufasa_48 (K2), Murucutumbu_46 (K1), Mutaforma13_53 (F1), Mynx_46 (K1), NewHope4_53 (F1), Nibb_47 (K1), Nikao_43 (K1), Niklas_47 (K1), Nutello_40 (K1), Okabe_45 (F8), Oscar_49 (K1), Ovechkin_47 (F1), Padfoot_45 (K1), Padpat_46 (K1), PatoPoderoso_47 (F1), Peanam_47 (K1), Peel_45 (K1), Phalconet_49 (F1), Phanphagia_45 (F1), PhesterPhotato_52 (F1), Philus_54 (F1), Piatt_45 (K1), Pippy_50 (F1), Pisa1_45 (K1), Pisa4_39 (K1), Pokerus_44 (K1), Polo2Bam_57 (F1), Prithvi_46 (K1), QuincyRose_44 (K1), Ramen_45 (K1), Rapunzel97_45 (K1), Renaud18_55 (F4), Rialto_55 (F1), Richo_47 (K1), Rita_52 (F1), Rosmarinus_45 (K1), SG4_47 (F1), Saal_53 (F1), SamuelLPlaqson_46 (K1), Sarma624_48 (F1), Scarlett_49 (K1), SeaLumen_56 (F1), SgtBeansprout_40 (K1), Shaobing_47 (K1), Shauna1_45 (F1), ShiaSurprise_46 (K1), ShroomBoi_50 (F1), SilverChicken_58 (F2), SimranZ1_49 (F1), Slimphazie_45 (K1), Soul22_54 (F2), Spartacus_52 (F1), Spock_45 (K1), StAnnes_49 (F1), Stinson_46 (K1), Strobilo_48 (K2), Strokeseat_47 (F1), Sulley_45 (K1), SuperGrey_50 (F1), SwagPigglett_56 (F1), TChen_50 (F4), TClif_49 (K6), TM4_43 (K2), Tachez_45 (K1), TaiwanKao_47 (K1), Taj_53 (F1), TiniBug_46 (K1), Tiri_46 (K1), Topper_45 (K1), Torres_43 (K1), TreyKay_46 (K1), TruffulaTree_45 (K1), Twitch_45 (K1), Urkel_46 (K1), VRedHorse_50 (F1), Validus_49 (K1), Veliki_45 (K1), Velveteen_45 (F1), Violac_53 (F1), Wachhund_52 (F1), Wee_52 (F1), Whatsapiecost_49 (F1), WillSterrel_51 (F1), XFactor_48 (F1), YoureAdopted_44 (K1), Zabiza_40 (K1), Zavala_46 (K1), ZoeJ_47 (K2),

Start 25:

- Found in 3 of 243 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 224
- Called 66.7% of time when present
- Phage (with cluster) where this start called: LilSpotty_48 (singleton), Squirty_44 (F3),

Start 29:

- Found in 2 of 243 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino_42 (AA), Settecandela_42 (AA),

Start 36:

- Found in 109 of 243 (44.9%) of genes in pham
- Manual Annotations of this start: 1 of 224
- Called 0.9% of time when present
- Phage (with cluster) where this start called: Stellammi_65 (UNK),

Summary by clusters:

There are 12 clusters represented in this pham: AA, F1, singleton, F3, F4, F, F8, F2, K2, K1, K6, UNK,

Info for manual annotations of cluster AA:

- Start number 29 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster F:

- Start number 9 was manually annotated 1 time for cluster F.

Info for manual annotations of cluster F1:

- Start number 9 was manually annotated 1 time for cluster F1.
- Start number 14 was manually annotated 4 times for cluster F1.
- Start number 17 was manually annotated 1 time for cluster F1.
- Start number 24 was manually annotated 85 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 24 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F3:

- Start number 25 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:

- Start number 24 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster K1:

- Start number 23 was manually annotated 3 times for cluster K1.
- Start number 24 was manually annotated 106 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 24 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K6:

- Start number 24 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster UNK:

- Start number 36 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: ActinUp_45 Start: 35398, Stop: 35664, Start Num: 24

Candidate Starts for ActinUp_45:

(Start: 24 @35398 has 209 MA's), (47, 35527),

Gene: Adephagia_45 Start: 35395, Stop: 35661, Start Num: 24

Candidate Starts for Adephagia_45:

(Start: 24 @35395 has 209 MA's), (47, 35524),

Gene: Adonis_45 Start: 35693, Stop: 35959, Start Num: 24

Candidate Starts for Adonis_45:
(Start: 24 @35693 has 209 MA's), (47, 35822),

Gene: Ageofdapage_47 Start: 36366, Stop: 36659, Start Num: 24
Candidate Starts for Ageofdapage_47:
(Start: 24 @36366 has 209 MA's), (47, 36495), (69, 36621),

Gene: Akhila_42 Start: 32431, Stop: 32691, Start Num: 24
Candidate Starts for Akhila_42:
(Start: 24 @32431 has 209 MA's), (30, 32449), (32, 32458), (34, 32482), (Start: 36 @32503 has 1 MA's), (46, 32557), (48, 32563), (49, 32566), (63, 32629), (66, 32638), (69, 32644), (70, 32656), (72, 32680),

Gene: Alexphander_55 Start: 37472, Stop: 37738, Start Num: 24
Candidate Starts for Alexphander_55:
(Start: 24 @37472 has 209 MA's), (32, 37499), (34, 37523), (Start: 36 @37544 has 1 MA's), (46, 37598), (48, 37604), (49, 37607), (58, 37652), (63, 37670), (66, 37685), (69, 37691), (70, 37703),

Gene: AlishaPH_45 Start: 35668, Stop: 35934, Start Num: 24
Candidate Starts for AlishaPH_45:
(Start: 24 @35668 has 209 MA's), (47, 35797),

Gene: Amelie_40 Start: 34981, Stop: 35265, Start Num: 24
Candidate Starts for Amelie_40:
(Start: 24 @34981 has 209 MA's), (47, 35119),

Gene: Anaya_47 Start: 36005, Stop: 36271, Start Num: 24
Candidate Starts for Anaya_47:
(Start: 24 @36005 has 209 MA's), (47, 36134),

Gene: Angelica_45 Start: 35625, Stop: 35891, Start Num: 24
Candidate Starts for Angelica_45:
(Start: 24 @35625 has 209 MA's), (47, 35754),

Gene: Anma_46 Start: 36292, Stop: 36558, Start Num: 24
Candidate Starts for Anma_46:
(Start: 24 @36292 has 209 MA's), (47, 36421), (69, 36520),

Gene: Apocalypse_48 Start: 36410, Stop: 36676, Start Num: 24
Candidate Starts for Apocalypse_48:
(Start: 24 @36410 has 209 MA's), (47, 36539),

Gene: Ardmore_41 Start: 34224, Stop: 34484, Start Num: 24
Candidate Starts for Ardmore_41:
(Start: 24 @34224 has 209 MA's), (30, 34242), (32, 34251), (34, 34275), (Start: 36 @34296 has 1 MA's), (46, 34350), (48, 34356), (49, 34359), (66, 34431), (69, 34437), (70, 34449), (72, 34473),

Gene: Asayake_45 Start: 35710, Stop: 35976, Start Num: 24
Candidate Starts for Asayake_45:
(Start: 24 @35710 has 209 MA's), (47, 35839),

Gene: Atiba_45 Start: 35358, Stop: 35624, Start Num: 24
Candidate Starts for Atiba_45:

(Start: 24 @35358 has 209 MA's), (47, 35487),

Gene: BEEST_45 Start: 35710, Stop: 35976, Start Num: 24

Candidate Starts for BEEST_45:

(Start: 24 @35710 has 209 MA's), (47, 35839),

Gene: BGlluviae_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for BGlluviae_45:

(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: BaghaKamala_44 Start: 34833, Stop: 35099, Start Num: 24

Candidate Starts for BaghaKamala_44:

(Start: 24 @34833 has 209 MA's), (47, 34962),

Gene: BarrelRoll_45 Start: 35381, Stop: 35647, Start Num: 24

Candidate Starts for BarrelRoll_45:

(Start: 24 @35381 has 209 MA's), (47, 35510),

Gene: Batiatus_48 Start: 36640, Stop: 36903, Start Num: 24

Candidate Starts for Batiatus_48:

(Start: 24 @36640 has 209 MA's), (30, 36658), (32, 36667), (34, 36691), (Start: 36 @36712 has 1 MA's), (46, 36766), (48, 36772), (49, 36775), (66, 36847), (69, 36853), (70, 36865), (72, 36889),

Gene: Beakin_52 Start: 36460, Stop: 36720, Start Num: 24

Candidate Starts for Beakin_52:

(Start: 24 @36460 has 209 MA's), (30, 36478), (32, 36487), (34, 36511), (Start: 36 @36532 has 1 MA's), (46, 36586), (48, 36592), (49, 36595), (66, 36667), (69, 36673), (70, 36685), (72, 36709),

Gene: Beezoo_47 Start: 36356, Stop: 36622, Start Num: 24

Candidate Starts for Beezoo_47:

(Start: 24 @36356 has 209 MA's), (47, 36485),

Gene: Bella96_46 Start: 36247, Stop: 36513, Start Num: 24

Candidate Starts for Bella96_46:

(Start: 24 @36247 has 209 MA's), (47, 36376), (69, 36475),

Gene: Belladonna_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for Belladonna_45:

(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: Bern_46 Start: 34428, Stop: 34694, Start Num: 24

Candidate Starts for Bern_46:

(Start: 24 @34428 has 209 MA's), (47, 34557),

Gene: BigPhil_46 Start: 32920, Stop: 33180, Start Num: 24

Candidate Starts for BigPhil_46:

(Start: 24 @32920 has 209 MA's), (30, 32938), (32, 32947), (34, 32971), (Start: 36 @32992 has 1 MA's), (46, 33046), (48, 33052), (49, 33055), (58, 33100), (63, 33118), (66, 33127), (69, 33133), (70, 33145),

Gene: Binglebops_40 Start: 34981, Stop: 35265, Start Num: 24

Candidate Starts for Binglebops_40:

(Start: 24 @34981 has 209 MA's), (47, 35119),

Gene: Bipolar_47 Start: 36374, Stop: 36634, Start Num: 24

Candidate Starts for Bipolar_47:

(Start: 24 @36374 has 209 MA's), (27, 36383), (34, 36425), (Start: 36 @36446 has 1 MA's), (46, 36500), (48, 36506), (49, 36509), (66, 36581), (69, 36587), (70, 36599),

Gene: Blarby_61 Start: 37278, Stop: 37565, Start Num: 24

Candidate Starts for Blarby_61:

(Start: 24 @37278 has 209 MA's), (30, 37299), (37, 37359), (41, 37377), (50, 37428), (54, 37455), (55, 37461), (56, 37464), (66, 37506), (71, 37542),

Gene: Blizzard_45 Start: 35710, Stop: 35976, Start Num: 24

Candidate Starts for Blizzard_45:

(Start: 24 @35710 has 209 MA's), (47, 35839),

Gene: BobaPhett_54 Start: 39312, Stop: 39671, Start Num: 14

Candidate Starts for BobaPhett_54:

(1, 38748), (2, 38919), (3, 38985), (Start: 14 @39312 has 4 MA's), (16, 39327), (22, 39381), (Start: 24 @39411 has 209 MA's), (30, 39429), (32, 39438), (34, 39462), (Start: 36 @39483 has 1 MA's), (46, 39537), (48, 39543), (49, 39546), (66, 39618), (69, 39624), (70, 39636),

Gene: Bobi_52 Start: 37227, Stop: 37487, Start Num: 24

Candidate Starts for Bobi_52:

(Start: 24 @37227 has 209 MA's), (30, 37245), (32, 37254), (34, 37278), (Start: 36 @37299 has 1 MA's), (46, 37353), (48, 37359), (49, 37362), (63, 37425), (66, 37434), (69, 37440), (70, 37452), (72, 37476),

Gene: Boiiii_45 Start: 35712, Stop: 35978, Start Num: 24

Candidate Starts for Boiiii_45:

(Start: 24 @35712 has 209 MA's), (47, 35841),

Gene: BoostSeason_48 Start: 37105, Stop: 37362, Start Num: 24

Candidate Starts for BoostSeason_48:

(Start: 24 @37105 has 209 MA's), (47, 37234),

Gene: Brocalys_47 Start: 34063, Stop: 34332, Start Num: 24

Candidate Starts for Brocalys_47:

(Start: 24 @34063 has 209 MA's), (30, 34081), (32, 34090), (34, 34114), (Start: 36 @34135 has 1 MA's), (45, 34177), (46, 34189), (48, 34195), (49, 34198), (58, 34243), (63, 34261), (66, 34279), (69, 34285), (70, 34297),

Gene: Brookers_47 Start: 35871, Stop: 36131, Start Num: 24

Candidate Starts for Brookers_47:

(Start: 24 @35871 has 209 MA's), (30, 35889), (32, 35898), (34, 35922), (Start: 36 @35943 has 1 MA's), (46, 35997), (48, 36003), (49, 36006), (58, 36051), (63, 36069), (66, 36078), (69, 36084), (70, 36096),

Gene: Brushbloom_52 Start: 37079, Stop: 37339, Start Num: 24

Candidate Starts for Brushbloom_52:

(Start: 24 @37079 has 209 MA's), (30, 37097), (32, 37106), (34, 37130), (Start: 36 @37151 has 1 MA's), (46, 37205), (48, 37211), (49, 37214), (58, 37259), (63, 37277), (66, 37286), (69, 37292), (70, 37304), (72, 37328),

Gene: ByChance_42 Start: 32434, Stop: 32697, Start Num: 24

Candidate Starts for ByChance_42:

(Start: 24 @32434 has 209 MA's), (30, 32452), (32, 32461), (34, 32485), (Start: 36 @32506 has 1 MA's), (46, 32560), (48, 32566), (49, 32569), (63, 32632), (66, 32641), (69, 32647), (70, 32659), (72, 32683),

Gene: Byougenkin_48 Start: 36458, Stop: 36718, Start Num: 24

Candidate Starts for Byougenkin_48:

(Start: 24 @36458 has 209 MA's), (27, 36467), (34, 36509), (Start: 36 @36530 has 1 MA's), (45, 36572), (46, 36584), (48, 36590), (49, 36593), (60, 36647), (63, 36656), (66, 36665), (69, 36671), (70, 36683), (72, 36707),

Gene: CREW_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for CREW_45:

(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: CallaLilly_45 Start: 35436, Stop: 35702, Start Num: 24

Candidate Starts for CallaLilly_45:

(Start: 24 @35436 has 209 MA's), (47, 35565),

Gene: Capricorn_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for Capricorn_45:

(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: CaptainTrips_47 Start: 35660, Stop: 35923, Start Num: 24

Candidate Starts for CaptainTrips_47:

(Start: 24 @35660 has 209 MA's), (30, 35678), (32, 35687), (34, 35711), (Start: 36 @35732 has 1 MA's), (46, 35786), (48, 35792), (49, 35795), (66, 35867), (69, 35873), (70, 35885), (72, 35909),

Gene: CaseJules_46 Start: 35710, Stop: 35976, Start Num: 24

Candidate Starts for CaseJules_46:

(Start: 24 @35710 has 209 MA's), (47, 35839),

Gene: Cerasum_46 Start: 32938, Stop: 33198, Start Num: 24

Candidate Starts for Cerasum_46:

(Start: 24 @32938 has 209 MA's), (30, 32956), (32, 32965), (34, 32989), (Start: 36 @33010 has 1 MA's), (46, 33064), (48, 33070), (49, 33073), (58, 33118), (63, 33136), (66, 33145), (69, 33151), (70, 33163),

Gene: Chavito_48 Start: 36764, Stop: 37048, Start Num: 24

Candidate Starts for Chavito_48:

(Start: 24 @36764 has 209 MA's), (47, 36902),

Gene: Cheesepuff_56 Start: 38596, Stop: 38856, Start Num: 24

Candidate Starts for Cheesepuff_56:

(Start: 24 @38596 has 209 MA's), (30, 38614), (32, 38623), (34, 38647), (Start: 36 @38668 has 1 MA's), (46, 38722), (48, 38728), (49, 38731), (58, 38776), (63, 38794), (66, 38803), (69, 38809), (70, 38821),

Gene: CheetoDust_44 Start: 34882, Stop: 35148, Start Num: 24

Candidate Starts for CheetoDust_44:

(Start: 24 @34882 has 209 MA's), (47, 35011),

Gene: Chris_47 Start: 36192, Stop: 36452, Start Num: 24
Candidate Starts for Chris_47:
(Start: 24 @36192 has 209 MA's), (33, 36231), (47, 36324), (53, 36366), (68, 36417),

Gene: Clank_53 Start: 37190, Stop: 37450, Start Num: 24
Candidate Starts for Clank_53:
(Start: 24 @37190 has 209 MA's), (30, 37208), (32, 37217), (34, 37241), (Start: 36 @37262 has 1 MA's), (46, 37316), (48, 37322), (49, 37325), (66, 37397), (69, 37403), (70, 37415),

Gene: Clifton_47 Start: 34414, Stop: 34683, Start Num: 24
Candidate Starts for Clifton_47:
(Start: 24 @34414 has 209 MA's), (30, 34432), (32, 34441), (34, 34465), (Start: 36 @34486 has 1 MA's), (45, 34528), (46, 34540), (48, 34546), (49, 34549), (58, 34594), (63, 34612), (66, 34630), (69, 34636), (70, 34648),

Gene: Clipper_48 Start: 36029, Stop: 36295, Start Num: 24
Candidate Starts for Clipper_48:
(Start: 24 @36029 has 209 MA's), (47, 36158),

Gene: Coco12_49 Start: 36995, Stop: 37255, Start Num: 24
Candidate Starts for Coco12_49:
(Start: 24 @36995 has 209 MA's), (30, 37013), (32, 37022), (34, 37046), (Start: 36 @37067 has 1 MA's), (46, 37121), (48, 37127), (49, 37130), (58, 37175), (63, 37193), (66, 37202), (69, 37208), (70, 37220),

Gene: Corium_47 Start: 35745, Stop: 36005, Start Num: 24
Candidate Starts for Corium_47:
(Start: 24 @35745 has 209 MA's), (30, 35763), (32, 35772), (34, 35796), (Start: 36 @35817 has 1 MA's), (46, 35871), (48, 35877), (49, 35880), (63, 35943), (66, 35952), (69, 35958), (70, 35970), (72, 35994),

Gene: Cornucopia_53 Start: 37702, Stop: 37962, Start Num: 24
Candidate Starts for Cornucopia_53:
(Start: 24 @37702 has 209 MA's), (30, 37720), (32, 37729), (34, 37753), (Start: 36 @37774 has 1 MA's), (46, 37828), (48, 37834), (49, 37837), (58, 37882), (63, 37900), (66, 37909), (69, 37915), (70, 37927), (72, 37951),

Gene: CrimD_45 Start: 35636, Stop: 35902, Start Num: 24
Candidate Starts for CrimD_45:
(Start: 24 @35636 has 209 MA's), (47, 35765), (62, 35840),

Gene: DLane_46 Start: 35745, Stop: 36005, Start Num: 24
Candidate Starts for DLane_46:
(Start: 24 @35745 has 209 MA's), (30, 35763), (32, 35772), (34, 35796), (Start: 36 @35817 has 1 MA's), (46, 35871), (48, 35877), (49, 35880), (63, 35943), (66, 35952), (69, 35958), (70, 35970), (72, 35994),

Gene: DRBy19_54 Start: 38199, Stop: 38459, Start Num: 24
Candidate Starts for DRBy19_54:
(Start: 24 @38199 has 209 MA's), (30, 38217), (32, 38226), (34, 38250), (Start: 36 @38271 has 1 MA's), (46, 38325), (48, 38331), (49, 38334), (66, 38406), (69, 38412), (70, 38424),

Gene: Dalmuri_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for Dalmuri_45:
(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: DartGoblin_47 Start: 36240, Stop: 36506, Start Num: 24
Candidate Starts for DartGoblin_47:
(Start: 24 @36240 has 209 MA's), (47, 36369), (69, 36468),

Gene: Dartin_47 Start: 36102, Stop: 36386, Start Num: 24
Candidate Starts for Dartin_47:
(Start: 24 @36102 has 209 MA's), (33, 36147), (38, 36192), (47, 36240), (59, 36309),

Gene: DeadP_55 Start: 37934, Stop: 38218, Start Num: 24
Candidate Starts for DeadP_55:
(Start: 24 @37934 has 209 MA's), (30, 37955), (37, 38015), (41, 38033), (50, 38084), (54, 38111), (55, 38117), (56, 38120), (66, 38159), (71, 38195),

Gene: Deby_45 Start: 35641, Stop: 35907, Start Num: 24
Candidate Starts for Deby_45:
(Start: 24 @35641 has 209 MA's), (47, 35770),

Gene: Devera_49 Start: 36174, Stop: 36440, Start Num: 24
Candidate Starts for Devera_49:
(15, 36081), (Start: 24 @36174 has 209 MA's), (47, 36303), (69, 36402),

Gene: DismalFunk_48 Start: 37539, Stop: 37796, Start Num: 24
Candidate Starts for DismalFunk_48:
(Start: 24 @37539 has 209 MA's), (47, 37668),

Gene: DismalStressor_48 Start: 37539, Stop: 37796, Start Num: 24
Candidate Starts for DismalStressor_48:
(Start: 24 @37539 has 209 MA's), (47, 37668),

Gene: DoRead_51 Start: 35474, Stop: 35734, Start Num: 24
Candidate Starts for DoRead_51:
(Start: 24 @35474 has 209 MA's), (27, 35483), (34, 35525), (Start: 36 @35546 has 1 MA's), (45, 35588), (46, 35600), (48, 35606), (49, 35609), (60, 35663), (63, 35672), (66, 35681), (69, 35687), (70, 35699), (72, 35723),

Gene: Dole_48 Start: 36176, Stop: 36442, Start Num: 24
Candidate Starts for Dole_48:
(15, 36083), (Start: 24 @36176 has 209 MA's), (47, 36305), (69, 36404),

Gene: Donkeykong_51 Start: 38545, Stop: 38805, Start Num: 24
Candidate Starts for Donkeykong_51:
(Start: 24 @38545 has 209 MA's), (30, 38563), (32, 38572), (34, 38596), (Start: 36 @38617 has 1 MA's), (46, 38671), (48, 38677), (49, 38680), (66, 38752), (69, 38758), (70, 38770), (72, 38794),

Gene: Doomslug_58 Start: 36353, Stop: 36622, Start Num: 24
Candidate Starts for Doomslug_58:
(Start: 24 @36353 has 209 MA's), (30, 36371), (32, 36380), (34, 36404), (Start: 36 @36425 has 1 MA's), (46, 36479), (48, 36485), (49, 36488), (58, 36533), (63, 36551), (66, 36569), (69, 36575), (70, 36587), (72, 36611),

Gene: DosHalletts_51 Start: 37887, Stop: 38156, Start Num: 24

Candidate Starts for DosHalletts_51:

(6, 37767), (8, 37794), (10, 37797), (Start: 24 @37887 has 209 MA's), (30, 37905), (34, 37938), (Start: 36 @37959 has 1 MA's), (45, 38001), (46, 38013), (48, 38019), (49, 38022), (58, 38067), (63, 38085), (66, 38103), (69, 38109), (70, 38121),

Gene: Doughnut_48 Start: 37152, Stop: 37409, Start Num: 24

Candidate Starts for Doughnut_48:

(Start: 24 @37152 has 209 MA's), (47, 37281),

Gene: DrHayes_46 Start: 36292, Stop: 36558, Start Num: 24

Candidate Starts for DrHayes_46:

(Start: 24 @36292 has 209 MA's), (47, 36421), (69, 36520),

Gene: Durfee_45 Start: 35710, Stop: 35976, Start Num: 24

Candidate Starts for Durfee_45:

(Start: 24 @35710 has 209 MA's), (47, 35839),

Gene: Efra2_47 Start: 35223, Stop: 35528, Start Num: 23

Candidate Starts for Efra2_47:

(Start: 23 @35223 has 3 MA's), (38, 35334), (47, 35382), (53, 35424),

Gene: EleanorGeorge_48 Start: 36028, Stop: 36288, Start Num: 24

Candidate Starts for EleanorGeorge_48:

(Start: 24 @36028 has 209 MA's), (30, 36046), (32, 36055), (34, 36079), (Start: 36 @36100 has 1 MA's), (46, 36154), (48, 36160), (49, 36163), (66, 36235), (69, 36241), (70, 36253), (72, 36277),

Gene: Emerson_46 Start: 35389, Stop: 35655, Start Num: 24

Candidate Starts for Emerson_46:

(Start: 24 @35389 has 209 MA's), (47, 35518),

Gene: Emma_50 Start: 35972, Stop: 36232, Start Num: 24

Candidate Starts for Emma_50:

(Start: 24 @35972 has 209 MA's), (30, 35990), (32, 35999), (34, 36023), (Start: 36 @36044 has 1 MA's), (46, 36098), (48, 36104), (49, 36107), (66, 36179), (69, 36185), (70, 36197), (72, 36221),

Gene: Enby_51 Start: 35146, Stop: 35409, Start Num: 24

Candidate Starts for Enby_51:

(Start: 24 @35146 has 209 MA's), (30, 35164), (32, 35173), (34, 35197), (Start: 36 @35218 has 1 MA's), (46, 35272), (48, 35278), (49, 35281), (63, 35344), (66, 35353), (69, 35359), (70, 35371), (72, 35395),

Gene: Enzomatic_58 Start: 37055, Stop: 37315, Start Num: 24

Candidate Starts for Enzomatic_58:

(Start: 24 @37055 has 209 MA's), (30, 37073), (32, 37082), (34, 37106), (Start: 36 @37127 has 1 MA's), (46, 37181), (48, 37187), (49, 37190), (66, 37262), (69, 37268), (70, 37280),

Gene: Estave1_50 Start: 36122, Stop: 36406, Start Num: 24

Candidate Starts for Estave1_50:

(Start: 24 @36122 has 209 MA's), (30, 36143), (37, 36203), (41, 36221), (50, 36272), (54, 36299), (55, 36305), (56, 36308), (66, 36347), (71, 36383),

Gene: Filuzino_48 Start: 35552, Stop: 35812, Start Num: 24

Candidate Starts for Filuzino_48:

(Start: 24 @35552 has 209 MA's), (30, 35570), (32, 35579), (34, 35603), (Start: 36 @35624 has 1 MA's), (46, 35678), (48, 35684), (49, 35687), (66, 35759), (69, 35765), (70, 35777), (72, 35801),

Gene: Findley_48 Start: 37532, Stop: 37789, Start Num: 24

Candidate Starts for Findley_48:

(Start: 24 @37532 has 209 MA's), (44, 37643), (47, 37661),

Gene: Flathead_49 Start: 36925, Stop: 37185, Start Num: 24

Candidate Starts for Flathead_49:

(Start: 24 @36925 has 209 MA's), (30, 36943), (32, 36952), (34, 36976), (Start: 36 @36997 has 1 MA's), (46, 37051), (48, 37057), (49, 37060), (63, 37123), (66, 37132), (69, 37138), (70, 37150), (72, 37174),

Gene: Fruitloop_48 Start: 37415, Stop: 37678, Start Num: 24

Candidate Starts for Fruitloop_48:

(Start: 24 @37415 has 209 MA's), (30, 37433), (32, 37442), (34, 37466), (Start: 36 @37487 has 1 MA's), (46, 37541), (48, 37547), (49, 37550), (66, 37622), (67, 37625), (69, 37631), (70, 37643), (72, 37667),

Gene: Galactic_51 Start: 37171, Stop: 37431, Start Num: 24

Candidate Starts for Galactic_51:

(Start: 24 @37171 has 209 MA's), (30, 37189), (32, 37198), (34, 37222), (Start: 36 @37243 has 1 MA's), (46, 37297), (48, 37303), (49, 37306), (66, 37378), (69, 37384), (70, 37396),

Gene: Ganymede_46 Start: 35828, Stop: 36094, Start Num: 24

Candidate Starts for Ganymede_46:

(Start: 24 @35828 has 209 MA's), (47, 35957),

Gene: Geraldini_47 Start: 36445, Stop: 36711, Start Num: 24

Candidate Starts for Geraldini_47:

(Start: 24 @36445 has 209 MA's), (47, 36574),

Gene: Gorge_55 Start: 38326, Stop: 38589, Start Num: 24

Candidate Starts for Gorge_55:

(Start: 24 @38326 has 209 MA's), (30, 38344), (32, 38353), (34, 38377), (Start: 36 @38398 has 1 MA's), (46, 38452), (48, 38458), (49, 38461), (63, 38524), (66, 38533), (69, 38539), (70, 38551), (72, 38575),

Gene: Guanica15_47 Start: 35180, Stop: 35485, Start Num: 23

Candidate Starts for Guanica15_47:

(Start: 23 @35180 has 3 MA's), (38, 35291), (47, 35339), (53, 35381),

Gene: Guppsters_50 Start: 36031, Stop: 36291, Start Num: 24

Candidate Starts for Guppsters_50:

(Start: 24 @36031 has 209 MA's), (30, 36049), (32, 36058), (34, 36082), (Start: 36 @36103 has 1 MA's), (46, 36157), (48, 36163), (49, 36166), (66, 36238), (69, 36244), (70, 36256), (72, 36280),

Gene: Hades_51 Start: 36925, Stop: 37188, Start Num: 24

Candidate Starts for Hades_51:

(Start: 24 @36925 has 209 MA's), (30, 36943), (34, 36976), (Start: 36 @36997 has 1 MA's), (46, 37051), (48, 37057), (49, 37060), (63, 37123), (66, 37132), (69, 37138), (70, 37150), (72, 37174),

Gene: HedwigODU_45 Start: 35398, Stop: 35664, Start Num: 24
Candidate Starts for HedwigODU_45:
(Start: 24 @35398 has 209 MA's), (47, 35527),

Gene: Hegedechwinu_50 Start: 35352, Stop: 35612, Start Num: 24
Candidate Starts for Hegedechwinu_50:
(Start: 24 @35352 has 209 MA's), (30, 35370), (32, 35379), (34, 35403), (Start: 36 @35424 has 1 MA's), (46, 35478), (48, 35484), (49, 35487), (66, 35559), (69, 35565), (70, 35577), (72, 35601),

Gene: Hlubikazi_47 Start: 35112, Stop: 35372, Start Num: 24
Candidate Starts for Hlubikazi_47:
(Start: 24 @35112 has 209 MA's), (30, 35130), (32, 35139), (34, 35163), (Start: 36 @35184 has 1 MA's), (46, 35238), (48, 35244), (49, 35247), (66, 35319), (69, 35325), (70, 35337),

Gene: Homura_45 Start: 35513, Stop: 35779, Start Num: 24
Candidate Starts for Homura_45:
(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: Hyperbowlee_45 Start: 35710, Stop: 35976, Start Num: 24
Candidate Starts for Hyperbowlee_45:
(Start: 24 @35710 has 209 MA's), (47, 35839),

Gene: IMpilo_47 Start: 35025, Stop: 35282, Start Num: 24
Candidate Starts for IMpilo_47:
(Start: 24 @35025 has 209 MA's), (30, 35043), (32, 35052), (34, 35076), (Start: 36 @35097 has 1 MA's), (46, 35151), (48, 35157), (49, 35160), (63, 35223), (66, 35232), (70, 35250), (72, 35274),

Gene: Illumine_48 Start: 36176, Stop: 36442, Start Num: 24
Candidate Starts for Illumine_48:
(15, 36083), (Start: 24 @36176 has 209 MA's), (47, 36305), (69, 36404),

Gene: Inky_45 Start: 35513, Stop: 35779, Start Num: 24
Candidate Starts for Inky_45:
(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: IrishSherpFalk_51 Start: 38088, Stop: 38348, Start Num: 24
Candidate Starts for IrishSherpFalk_51:
(Start: 24 @38088 has 209 MA's), (30, 38106), (32, 38115), (34, 38139), (Start: 36 @38160 has 1 MA's), (46, 38214), (48, 38220), (49, 38223), (58, 38268), (63, 38286), (66, 38295), (69, 38301), (70, 38313),

Gene: JAWS_45 Start: 35387, Stop: 35653, Start Num: 24
Candidate Starts for JAWS_45:
(Start: 24 @35387 has 209 MA's), (47, 35516),

Gene: James_54 Start: 38190, Stop: 38549, Start Num: 14
Candidate Starts for James_54:
(1, 37626), (2, 37797), (3, 37863), (Start: 14 @38190 has 4 MA's), (16, 38205), (22, 38259), (Start: 24 @38289 has 209 MA's), (30, 38307), (32, 38316), (34, 38340), (Start: 36 @38361 has 1 MA's), (46, 38415), (48, 38421), (49, 38424), (66, 38496), (69, 38502), (70, 38514),

Gene: Jant_54 Start: 38426, Stop: 38683, Start Num: 24
Candidate Starts for Jant_54:

(Start: 24 @38426 has 209 MA's), (30, 38444), (32, 38453), (34, 38477), (Start: 36 @38498 has 1 MA's), (46, 38552), (48, 38558), (49, 38561), (63, 38621), (66, 38630), (69, 38636), (70, 38648), (72, 38672),

Gene: Jarvi_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for Jarvi_45:

(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: Jayhawk_46 Start: 35396, Stop: 35662, Start Num: 24

Candidate Starts for Jayhawk_46:

(Start: 24 @35396 has 209 MA's), (47, 35525),

Gene: Jeckyll_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for Jeckyll_45:

(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: Jennelsea_49 Start: 35719, Stop: 35979, Start Num: 24

Candidate Starts for Jennelsea_49:

(2, 35227), (3, 35293), (Start: 14 @35620 has 4 MA's), (16, 35635), (22, 35689), (Start: 24 @35719 has 209 MA's), (30, 35737), (32, 35746), (34, 35770), (Start: 36 @35791 has 1 MA's), (46, 35845), (48, 35851), (49, 35854), (66, 35926), (69, 35932), (70, 35944),

Gene: Joy99_45 Start: 35442, Stop: 35708, Start Num: 24

Candidate Starts for Joy99_45:

(Start: 24 @35442 has 209 MA's), (47, 35571),

Gene: Juice456_52 Start: 37930, Stop: 38190, Start Num: 24

Candidate Starts for Juice456_52:

(Start: 24 @37930 has 209 MA's), (30, 37948), (32, 37957), (34, 37981), (Start: 36 @38002 has 1 MA's), (46, 38056), (48, 38062), (49, 38065), (66, 38137), (69, 38143), (70, 38155), (72, 38179),

Gene: Juniper1_48 Start: 36146, Stop: 36406, Start Num: 24

Candidate Starts for Juniper1_48:

(Start: 24 @36146 has 209 MA's), (27, 36155), (34, 36197), (Start: 36 @36218 has 1 MA's), (45, 36260), (46, 36272), (48, 36278), (49, 36281), (60, 36335), (63, 36344), (66, 36353), (69, 36359), (70, 36371), (72, 36395),

Gene: Kenuha5_48 Start: 35550, Stop: 35903, Start Num: 9

Candidate Starts for Kenuha5_48:

(Start: 9 @35550 has 2 MA's), (Start: 24 @35643 has 209 MA's), (30, 35661), (32, 35670), (34, 35694), (Start: 36 @35715 has 1 MA's), (46, 35769), (48, 35775), (49, 35778), (66, 35850), (69, 35856), (70, 35868),

Gene: KiSi_49 Start: 36597, Stop: 36851, Start Num: 24

Candidate Starts for KiSi_49:

(Start: 24 @36597 has 209 MA's), (33, 36636), (47, 36729),

Gene: KingJulian_49 Start: 35745, Stop: 36005, Start Num: 24

Candidate Starts for KingJulian_49:

(Start: 24 @35745 has 209 MA's), (30, 35763), (32, 35772), (34, 35796), (Start: 36 @35817 has 1 MA's), (46, 35871), (48, 35877), (49, 35880), (63, 35943), (66, 35952), (69, 35958), (70, 35970), (72, 35994),

Gene: Kingsley_47 Start: 35728, Stop: 35988, Start Num: 24

Candidate Starts for Kingsley_47:

(Start: 24 @35728 has 209 MA's), (30, 35746), (32, 35755), (34, 35779), (Start: 36 @35800 has 1 MA's), (46, 35854), (48, 35860), (49, 35863), (58, 35908), (63, 35926), (66, 35935), (69, 35941), (70, 35953),

Gene: KristaRAM_49 Start: 37743, Stop: 38003, Start Num: 24

Candidate Starts for KristaRAM_49:

(Start: 24 @37743 has 209 MA's), (30, 37761), (32, 37770), (34, 37794), (Start: 36 @37815 has 1 MA's), (46, 37869), (48, 37875), (49, 37878), (66, 37950), (69, 37956), (70, 37968),

Gene: LastJedi_46 Start: 34457, Stop: 34726, Start Num: 24

Candidate Starts for LastJedi_46:

(Start: 24 @34457 has 209 MA's), (30, 34475), (32, 34484), (34, 34508), (Start: 36 @34529 has 1 MA's), (45, 34571), (46, 34583), (48, 34589), (49, 34592), (58, 34637), (63, 34655), (66, 34673), (69, 34679), (70, 34691),

Gene: LaterM_46 Start: 36290, Stop: 36556, Start Num: 24

Candidate Starts for LaterM_46:

(Start: 24 @36290 has 209 MA's), (47, 36419), (69, 36518),

Gene: LeMond_49 Start: 36581, Stop: 36835, Start Num: 24

Candidate Starts for LeMond_49:

(4, 36248), (Start: 24 @36581 has 209 MA's), (33, 36620), (47, 36713),

Gene: LilPharaoh_40 Start: 34709, Stop: 34993, Start Num: 24

Candidate Starts for LilPharaoh_40:

(Start: 24 @34709 has 209 MA's), (47, 34847),

Gene: LilSpotty_48 Start: 34139, Stop: 34411, Start Num: 25

Candidate Starts for LilSpotty_48:

(20, 34112), (Start: 25 @34139 has 2 MA's), (34, 34193), (Start: 36 @34214 has 1 MA's), (42, 34241), (47, 34274), (61, 34340),

Gene: Llorens_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for Llorens_45:

(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: LordVader_43 Start: 31308, Stop: 31670, Start Num: 9

Candidate Starts for LordVader_43:

(5, 31275), (Start: 9 @31308 has 2 MA's), (11, 31311), (20, 31371), (Start: 25 @31398 has 2 MA's), (34, 31452), (Start: 36 @31473 has 1 MA's), (42, 31500), (47, 31533), (61, 31599),

Gene: Lorde_51 Start: 35121, Stop: 35384, Start Num: 24

Candidate Starts for Lorde_51:

(Start: 24 @35121 has 209 MA's), (30, 35139), (32, 35148), (34, 35172), (Start: 36 @35193 has 1 MA's), (46, 35247), (48, 35253), (49, 35256), (63, 35319), (66, 35328), (69, 35334), (70, 35346), (72, 35370),

Gene: LunaBlu_54 Start: 37830, Stop: 38090, Start Num: 24

Candidate Starts for LunaBlu_54:

(Start: 24 @37830 has 209 MA's), (30, 37848), (32, 37857), (34, 37881), (Start: 36 @37902 has 1 MA's), (46, 37956), (48, 37962), (49, 37965), (66, 38037), (69, 38043), (70, 38055),

Gene: LunaStella_48 Start: 35282, Stop: 35557, Start Num: 24

Candidate Starts for LunaStella_48:

(Start: 24 @35282 has 209 MA's), (34, 35333), (Start: 36 @35354 has 1 MA's), (45, 35396), (46, 35408), (48, 35414), (49, 35417), (65, 35495), (66, 35504), (69, 35510), (70, 35522),

Gene: Lunahalos_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for Lunahalos_45:

(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: MacKat_40 Start: 30913, Stop: 31179, Start Num: 24

Candidate Starts for MacKat_40:

(Start: 24 @30913 has 209 MA's), (47, 31042),

Gene: Mandlovu_47 Start: 35054, Stop: 35314, Start Num: 24

Candidate Starts for Mandlovu_47:

(Start: 24 @35054 has 209 MA's), (30, 35072), (32, 35081), (34, 35105), (Start: 36 @35126 has 1 MA's), (46, 35180), (48, 35186), (49, 35189), (66, 35261), (69, 35267), (70, 35279),

Gene: Marcoliusprime_48 Start: 37539, Stop: 37796, Start Num: 24

Candidate Starts for Marcoliusprime_48:

(Start: 24 @37539 has 209 MA's), (47, 37668),

Gene: MarkPhew_48 Start: 36023, Stop: 36280, Start Num: 24

Candidate Starts for MarkPhew_48:

(Start: 24 @36023 has 209 MA's), (33, 36062), (47, 36155), (53, 36197),

Gene: Marshawn_48 Start: 36429, Stop: 36707, Start Num: 24

Candidate Starts for Marshawn_48:

(Start: 24 @36429 has 209 MA's), (47, 36567), (53, 36609), (59, 36636),

Gene: Mattes_54 Start: 38190, Stop: 38549, Start Num: 14

Candidate Starts for Mattes_54:

(1, 37626), (2, 37797), (3, 37863), (Start: 14 @38190 has 4 MA's), (16, 38205), (22, 38259), (Start: 24 @38289 has 209 MA's), (30, 38307), (32, 38316), (34, 38340), (Start: 36 @38361 has 1 MA's), (46, 38415), (48, 38421), (49, 38424), (66, 38496), (69, 38502), (70, 38514),

Gene: McMater_47 Start: 36102, Stop: 36386, Start Num: 24

Candidate Starts for McMater_47:

(Start: 24 @36102 has 209 MA's), (33, 36147), (38, 36192), (47, 36240), (59, 36309),

Gene: Mdavu_41 Start: 34970, Stop: 35254, Start Num: 24

Candidate Starts for Mdavu_41:

(Start: 24 @34970 has 209 MA's), (47, 35108),

Gene: MeaningOfLife_46 Start: 36322, Stop: 36588, Start Num: 24

Candidate Starts for MeaningOfLife_46:

(Start: 24 @36322 has 209 MA's), (47, 36451),

Gene: Medindi_48 Start: 34833, Stop: 35093, Start Num: 24

Candidate Starts for Medindi_48:

(Start: 24 @34833 has 209 MA's), (30, 34851), (32, 34860), (34, 34884), (Start: 36 @34905 has 1 MA's), (46, 34959), (48, 34965), (49, 34968), (66, 35040), (69, 35046), (70, 35058), (72, 35082),

Gene: Megsy_46 Start: 35638, Stop: 35928, Start Num: 24

Candidate Starts for Megsy_46:

(Start: 24 @35638 has 209 MA's), (47, 35767),

Gene: Melissauren88_48 Start: 35898, Stop: 36161, Start Num: 24

Candidate Starts for Melissauren88_48:

(Start: 24 @35898 has 209 MA's), (30, 35916), (32, 35925), (34, 35949), (Start: 36 @35970 has 1 MA's), (46, 36024), (48, 36030), (49, 36033), (63, 36096), (66, 36105), (69, 36111), (70, 36123), (72, 36147),

Gene: MilanaBonita_42 Start: 32431, Stop: 32691, Start Num: 24

Candidate Starts for MilanaBonita_42:

(Start: 24 @32431 has 209 MA's), (30, 32449), (32, 32458), (34, 32482), (Start: 36 @32503 has 1 MA's), (46, 32557), (48, 32563), (49, 32566), (63, 32629), (66, 32638), (69, 32644), (70, 32656), (72, 32680),

Gene: MilleniumForce_50 Start: 37892, Stop: 38152, Start Num: 24

Candidate Starts for MilleniumForce_50:

(Start: 24 @37892 has 209 MA's), (30, 37910), (32, 37919), (34, 37943), (Start: 36 @37964 has 1 MA's), (46, 38018), (48, 38024), (49, 38027), (66, 38099), (69, 38105), (70, 38117), (72, 38141),

Gene: Milly_48 Start: 37512, Stop: 37769, Start Num: 24

Candidate Starts for Milly_48:

(Start: 24 @37512 has 209 MA's), (44, 37623), (47, 37641),

Gene: MinionDave_49 Start: 36435, Stop: 36698, Start Num: 24

Candidate Starts for MinionDave_49:

(Start: 24 @36435 has 209 MA's), (30, 36453), (32, 36462), (34, 36486), (Start: 36 @36507 has 1 MA's), (46, 36561), (48, 36567), (49, 36570), (66, 36642), (69, 36648), (70, 36660), (72, 36684),

Gene: Minnie_55 Start: 38774, Stop: 39034, Start Num: 24

Candidate Starts for Minnie_55:

(Start: 24 @38774 has 209 MA's), (30, 38792), (32, 38801), (34, 38825), (Start: 36 @38846 has 1 MA's), (46, 38900), (48, 38906), (49, 38909), (58, 38954), (63, 38972), (66, 38981), (69, 38987), (70, 38999),

Gene: MooMoo_46 Start: 35558, Stop: 35833, Start Num: 24

Candidate Starts for MooMoo_46:

(Start: 24 @35558 has 209 MA's), (34, 35609), (Start: 36 @35630 has 1 MA's), (45, 35672), (46, 35684), (48, 35690), (49, 35693), (65, 35771), (66, 35780), (69, 35786), (70, 35798),

Gene: Moonbeam_46 Start: 35928, Stop: 36188, Start Num: 24

Candidate Starts for Moonbeam_46:

(Start: 24 @35928 has 209 MA's), (30, 35946), (32, 35955), (34, 35979), (Start: 36 @36000 has 1 MA's), (46, 36054), (48, 36060), (49, 36063), (66, 36135), (69, 36141), (70, 36153), (72, 36177),

Gene: Mova_50 Start: 35691, Stop: 35951, Start Num: 24

Candidate Starts for Mova_50:

(Start: 24 @35691 has 209 MA's), (30, 35709), (32, 35718), (34, 35742), (Start: 36 @35763 has 1 MA's), (46, 35817), (48, 35823), (49, 35826), (66, 35898), (69, 35904), (70, 35916), (72, 35940),

Gene: Mozy_60 Start: 39450, Stop: 39764, Start Num: 17

Candidate Starts for Mozy_60:

(Start: 17 @39450 has 1 MA's), (Start: 24 @39504 has 209 MA's), (30, 39522), (32, 39531), (34, 39555), (Start: 36 @39576 has 1 MA's), (45, 39618), (46, 39630), (48, 39636), (49, 39639), (63, 39702), (66, 39711), (69, 39717), (70, 39729), (72, 39753),

Gene: Ms6_43 Start: 30964, Stop: 31230, Start Num: 24

Candidate Starts for Ms6_43:

(Start: 24 @30964 has 209 MA's), (30, 30982), (32, 30991), (34, 31015), (Start: 36 @31036 has 1 MA's), (46, 31090), (48, 31096), (49, 31099), (58, 31144), (63, 31162), (66, 31177), (69, 31183), (70, 31195), (72, 31219),

Gene: Mufasa_48 Start: 37096, Stop: 37353, Start Num: 24

Candidate Starts for Mufasa_48:

(Start: 24 @37096 has 209 MA's), (47, 37225),

Gene: Murucutumbu_46 Start: 36383, Stop: 36649, Start Num: 24

Candidate Starts for Murucutumbu_46:

(Start: 24 @36383 has 209 MA's), (47, 36512), (69, 36611),

Gene: Mutaforma13_53 Start: 38482, Stop: 38742, Start Num: 24

Candidate Starts for Mutaforma13_53:

(Start: 24 @38482 has 209 MA's), (30, 38500), (32, 38509), (34, 38533), (Start: 36 @38554 has 1 MA's), (46, 38608), (48, 38614), (49, 38617), (66, 38689), (69, 38695), (70, 38707), (72, 38731),

Gene: Mynx_46 Start: 35714, Stop: 35980, Start Num: 24

Candidate Starts for Mynx_46:

(Start: 24 @35714 has 209 MA's), (47, 35843),

Gene: NewHope4_53 Start: 37201, Stop: 37461, Start Num: 24

Candidate Starts for NewHope4_53:

(Start: 24 @37201 has 209 MA's), (30, 37219), (32, 37228), (34, 37252), (Start: 36 @37273 has 1 MA's), (46, 37327), (48, 37333), (49, 37336), (66, 37408), (69, 37414), (70, 37426),

Gene: Nibb_47 Start: 35735, Stop: 35992, Start Num: 24

Candidate Starts for Nibb_47:

(Start: 24 @35735 has 209 MA's), (33, 35774), (47, 35867), (62, 35939),

Gene: Nikao_43 Start: 37594, Stop: 37878, Start Num: 24

Candidate Starts for Nikao_43:

(Start: 24 @37594 has 209 MA's), (47, 37732),

Gene: Niklas_47 Start: 36163, Stop: 36447, Start Num: 24

Candidate Starts for Niklas_47:

(Start: 24 @36163 has 209 MA's), (33, 36208), (38, 36253), (47, 36301), (59, 36370),

Gene: Nutello_40 Start: 34981, Stop: 35265, Start Num: 24

Candidate Starts for Nutello_40:

(Start: 24 @34981 has 209 MA's), (47, 35119),

Gene: Okabe_45 Start: 32290, Stop: 32547, Start Num: 24

Candidate Starts for Okabe_45:

(Start: 24 @32290 has 209 MA's), (30, 32308), (32, 32317), (34, 32341), (Start: 36 @32362 has 1 MA's), (46, 32416), (48, 32422), (49, 32425), (66, 32494), (69, 32500), (70, 32512), (72, 32536),

Gene: Oscar_49 Start: 36483, Stop: 36737, Start Num: 24

Candidate Starts for Oscar_49:

(4, 36150), (Start: 24 @36483 has 209 MA's), (33, 36522), (47, 36615), (53, 36657),

Gene: Ovechkin_47 Start: 36285, Stop: 36545, Start Num: 24

Candidate Starts for Ovechkin_47:

(Start: 24 @36285 has 209 MA's), (30, 36303), (32, 36312), (34, 36336), (Start: 36 @36357 has 1 MA's), (46, 36411), (48, 36417), (49, 36420), (66, 36492), (69, 36498), (70, 36510), (72, 36534),

Gene: Padfoot_45 Start: 35710, Stop: 35976, Start Num: 24

Candidate Starts for Padfoot_45:

(Start: 24 @35710 has 209 MA's), (47, 35839),

Gene: Padpat_46 Start: 35389, Stop: 35655, Start Num: 24

Candidate Starts for Padpat_46:

(Start: 24 @35389 has 209 MA's), (47, 35518),

Gene: PatoPoderoso_47 Start: 35745, Stop: 36005, Start Num: 24

Candidate Starts for PatoPoderoso_47:

(Start: 24 @35745 has 209 MA's), (30, 35763), (32, 35772), (34, 35796), (Start: 36 @35817 has 1 MA's), (46, 35871), (48, 35877), (49, 35880), (63, 35943), (66, 35952), (69, 35958), (70, 35970), (72, 35994),

Gene: Peanam_47 Start: 36121, Stop: 36405, Start Num: 24

Candidate Starts for Peanam_47:

(Start: 24 @36121 has 209 MA's), (33, 36166), (38, 36211), (47, 36259), (59, 36328),

Gene: Peel_45 Start: 35515, Stop: 35781, Start Num: 24

Candidate Starts for Peel_45:

(Start: 24 @35515 has 209 MA's), (47, 35644),

Gene: Phalconet_49 Start: 36205, Stop: 36465, Start Num: 24

Candidate Starts for Phalconet_49:

(Start: 24 @36205 has 209 MA's), (30, 36223), (32, 36232), (34, 36256), (Start: 36 @36277 has 1 MA's), (46, 36331), (48, 36337), (49, 36340), (63, 36403), (66, 36412), (69, 36418), (70, 36430), (72, 36454),

Gene: Phanphagia_45 Start: 36033, Stop: 36293, Start Num: 24

Candidate Starts for Phanphagia_45:

(Start: 24 @36033 has 209 MA's), (27, 36042), (34, 36084), (Start: 36 @36105 has 1 MA's), (46, 36159), (48, 36165), (49, 36168), (66, 36240), (69, 36246), (70, 36258),

Gene: PhesterPhotato_52 Start: 37160, Stop: 37420, Start Num: 24

Candidate Starts for PhesterPhotato_52:

(Start: 24 @37160 has 209 MA's), (30, 37178), (32, 37187), (34, 37211), (Start: 36 @37232 has 1 MA's), (46, 37286), (48, 37292), (49, 37295), (63, 37358), (66, 37367), (69, 37373), (70, 37385), (72, 37409),

Gene: Philus_54 Start: 38175, Stop: 38435, Start Num: 24

Candidate Starts for Philus_54:

(Start: 24 @38175 has 209 MA's), (30, 38193), (32, 38202), (34, 38226), (Start: 36 @38247 has 1 MA's), (46, 38301), (48, 38307), (49, 38310), (66, 38382), (69, 38388), (70, 38400),

Gene: Phrappuccino_42 Start: 23385, Stop: 23648, Start Num: 29
Candidate Starts for Phrappuccino_42:
(7, 23241), (Start: 29 @23385 has 2 MA's), (39, 23463), (51, 23523), (52, 23541),

Gene: Piatt_45 Start: 35710, Stop: 35976, Start Num: 24
Candidate Starts for Piatt_45:
(Start: 24 @35710 has 209 MA's), (47, 35839),

Gene: Pippy_50 Start: 36021, Stop: 36290, Start Num: 24
Candidate Starts for Pippy_50:
(Start: 24 @36021 has 209 MA's), (30, 36039), (32, 36048), (34, 36072), (Start: 36 @36093 has 1 MA's), (45, 36135), (46, 36147), (48, 36153), (49, 36156), (58, 36201), (63, 36219), (66, 36237), (69, 36243), (70, 36255),

Gene: Pisa1_45 Start: 36683, Stop: 36949, Start Num: 24
Candidate Starts for Pisa1_45:
(Start: 24 @36683 has 209 MA's), (47, 36812), (69, 36911),

Gene: Pisa4_39 Start: 32052, Stop: 32318, Start Num: 24
Candidate Starts for Pisa4_39:
(Start: 24 @32052 has 209 MA's), (47, 32181), (69, 32280),

Gene: Pokerus_44 Start: 35436, Stop: 35702, Start Num: 24
Candidate Starts for Pokerus_44:
(Start: 24 @35436 has 209 MA's), (47, 35565),

Gene: Polo2Bam_57 Start: 37055, Stop: 37315, Start Num: 24
Candidate Starts for Polo2Bam_57:
(Start: 24 @37055 has 209 MA's), (30, 37073), (32, 37082), (34, 37106), (Start: 36 @37127 has 1 MA's), (46, 37181), (48, 37187), (49, 37190), (66, 37262), (69, 37268), (70, 37280),

Gene: Prithvi_46 Start: 35579, Stop: 35869, Start Num: 24
Candidate Starts for Prithvi_46:
(Start: 24 @35579 has 209 MA's), (47, 35708),

Gene: QuincyRose_44 Start: 35828, Stop: 36094, Start Num: 24
Candidate Starts for QuincyRose_44:
(Start: 24 @35828 has 209 MA's), (47, 35957),

Gene: Ramen_45 Start: 35400, Stop: 35666, Start Num: 24
Candidate Starts for Ramen_45:
(Start: 24 @35400 has 209 MA's), (47, 35529),

Gene: Rapunzel97_45 Start: 35396, Stop: 35662, Start Num: 24
Candidate Starts for Rapunzel97_45:
(Start: 24 @35396 has 209 MA's), (47, 35525),

Gene: Renaud18_55 Start: 37223, Stop: 37507, Start Num: 24
Candidate Starts for Renaud18_55:
(Start: 24 @37223 has 209 MA's), (30, 37244), (37, 37304), (41, 37322), (50, 37373), (54, 37400), (55, 37406), (56, 37409), (66, 37448), (71, 37484),

Gene: Rialto_55 Start: 39407, Stop: 39676, Start Num: 24

Candidate Starts for Rialto_55:

(Start: 24 @39407 has 209 MA's), (30, 39425), (32, 39434), (34, 39458), (Start: 36 @39479 has 1 MA's), (45, 39521), (46, 39533), (48, 39539), (49, 39542), (58, 39587), (63, 39605), (66, 39623), (69, 39629), (70, 39641),

Gene: Richo_47 Start: 36102, Stop: 36386, Start Num: 24

Candidate Starts for Richo_47:

(Start: 24 @36102 has 209 MA's), (33, 36147), (38, 36192), (47, 36240), (59, 36309),

Gene: Rita_52 Start: 36039, Stop: 36299, Start Num: 24

Candidate Starts for Rita_52:

(Start: 24 @36039 has 209 MA's), (27, 36048), (34, 36090), (Start: 36 @36111 has 1 MA's), (45, 36153), (46, 36165), (48, 36171), (49, 36174), (63, 36237), (66, 36246), (69, 36252), (70, 36264), (72, 36288),

Gene: Rosmarinus_45 Start: 35501, Stop: 35767, Start Num: 24

Candidate Starts for Rosmarinus_45:

(Start: 24 @35501 has 209 MA's), (47, 35630),

Gene: SG4_47 Start: 35631, Stop: 35894, Start Num: 24

Candidate Starts for SG4_47:

(Start: 24 @35631 has 209 MA's), (30, 35649), (32, 35658), (34, 35682), (Start: 36 @35703 has 1 MA's), (46, 35757), (48, 35763), (49, 35766), (63, 35829), (66, 35838), (69, 35844), (70, 35856), (72, 35880),

Gene: Saal_53 Start: 38145, Stop: 38408, Start Num: 24

Candidate Starts for Saal_53:

(Start: 24 @38145 has 209 MA's), (30, 38163), (32, 38172), (34, 38196), (Start: 36 @38217 has 1 MA's), (46, 38271), (48, 38277), (49, 38280), (63, 38343), (66, 38352), (69, 38358), (70, 38370), (72, 38394),

Gene: SamuelLPlaqson_46 Start: 36292, Stop: 36558, Start Num: 24

Candidate Starts for SamuelLPlaqson_46:

(Start: 24 @36292 has 209 MA's), (47, 36421), (69, 36520),

Gene: Sarma624_48 Start: 32920, Stop: 33180, Start Num: 24

Candidate Starts for Sarma624_48:

(Start: 24 @32920 has 209 MA's), (30, 32938), (32, 32947), (34, 32971), (Start: 36 @32992 has 1 MA's), (46, 33046), (48, 33052), (49, 33055), (58, 33100), (63, 33118), (66, 33127), (69, 33133), (70, 33145),

Gene: Scarlett_49 Start: 36475, Stop: 36729, Start Num: 24

Candidate Starts for Scarlett_49:

(4, 36142), (Start: 24 @36475 has 209 MA's), (33, 36514), (47, 36607),

Gene: SeaLumen_56 Start: 37055, Stop: 37315, Start Num: 24

Candidate Starts for SeaLumen_56:

(Start: 24 @37055 has 209 MA's), (30, 37073), (32, 37082), (34, 37106), (Start: 36 @37127 has 1 MA's), (46, 37181), (48, 37187), (49, 37190), (66, 37262), (69, 37268), (70, 37280),

Gene: Settecandela_42 Start: 23385, Stop: 23648, Start Num: 29

Candidate Starts for Settecandela_42:

(7, 23241), (Start: 29 @23385 has 2 MA's), (39, 23463), (51, 23523), (52, 23541),

Gene: SgtBeansprout_40 Start: 34981, Stop: 35265, Start Num: 24

Candidate Starts for SgtBeansprout_40:

(Start: 24 @34981 has 209 MA's), (47, 35119),

Gene: Shaobing_47 Start: 36138, Stop: 36422, Start Num: 24

Candidate Starts for Shaobing_47:

(Start: 24 @36138 has 209 MA's), (33, 36183), (38, 36228), (47, 36276), (59, 36345),

Gene: Shauna1_45 Start: 36023, Stop: 36283, Start Num: 24

Candidate Starts for Shauna1_45:

(Start: 24 @36023 has 209 MA's), (27, 36032), (34, 36074), (Start: 36 @36095 has 1 MA's), (46, 36149), (48, 36155), (49, 36158), (66, 36230), (69, 36236), (70, 36248),

Gene: ShiaSurprise_46 Start: 35710, Stop: 35976, Start Num: 24

Candidate Starts for ShiaSurprise_46:

(Start: 24 @35710 has 209 MA's), (47, 35839),

Gene: ShroomBoi_50 Start: 36513, Stop: 36773, Start Num: 24

Candidate Starts for ShroomBoi_50:

(Start: 24 @36513 has 209 MA's), (30, 36531), (32, 36540), (34, 36564), (Start: 36 @36585 has 1 MA's), (46, 36639), (48, 36645), (49, 36648), (66, 36720), (69, 36726), (70, 36738),

Gene: SilverChicken_58 Start: 36158, Stop: 36418, Start Num: 24

Candidate Starts for SilverChicken_58:

(21, 36131), (Start: 24 @36158 has 209 MA's), (30, 36176), (32, 36185), (34, 36209), (Start: 36 @36230 has 1 MA's), (46, 36284), (48, 36290), (49, 36293), (63, 36356), (66, 36365), (69, 36371), (70, 36383), (72, 36407),

Gene: SimranZ1_49 Start: 35859, Stop: 36119, Start Num: 24

Candidate Starts for SimranZ1_49:

(Start: 24 @35859 has 209 MA's), (27, 35868), (34, 35910), (Start: 36 @35931 has 1 MA's), (45, 35973), (46, 35985), (48, 35991), (49, 35994), (60, 36048), (63, 36057), (66, 36066), (69, 36072), (70, 36084), (72, 36108),

Gene: Slimphazie_45 Start: 35396, Stop: 35662, Start Num: 24

Candidate Starts for Slimphazie_45:

(Start: 24 @35396 has 209 MA's), (47, 35525),

Gene: Soul22_54 Start: 36760, Stop: 37020, Start Num: 24

Candidate Starts for Soul22_54:

(Start: 24 @36760 has 209 MA's), (30, 36778), (32, 36787), (34, 36811), (Start: 36 @36832 has 1 MA's), (46, 36886), (48, 36892), (49, 36895), (66, 36967), (69, 36973), (70, 36985), (72, 37009),

Gene: Spartacus_52 Start: 37005, Stop: 37265, Start Num: 24

Candidate Starts for Spartacus_52:

(Start: 24 @37005 has 209 MA's), (30, 37023), (32, 37032), (34, 37056), (Start: 36 @37077 has 1 MA's), (46, 37131), (48, 37137), (49, 37140), (58, 37185), (63, 37203), (66, 37212), (69, 37218), (70, 37230),

Gene: Spock_45 Start: 35514, Stop: 35780, Start Num: 24

Candidate Starts for Spock_45:

(Start: 24 @35514 has 209 MA's), (47, 35643),

Gene: Squirty_44 Start: 33796, Stop: 34068, Start Num: 25

Candidate Starts for Squirty_44:

(20, 33769), (Start: 25 @33796 has 2 MA's), (34, 33850), (Start: 36 @33871 has 1 MA's), (42, 33898), (47, 33931), (61, 33997),

Gene: StAnnes_49 Start: 36877, Stop: 37140, Start Num: 24

Candidate Starts for StAnnes_49:

(Start: 24 @36877 has 209 MA's), (30, 36895), (32, 36904), (34, 36928), (Start: 36 @36949 has 1 MA's), (46, 37003), (48, 37009), (49, 37012), (63, 37075), (66, 37084), (69, 37090), (70, 37102), (72, 37126),

Gene: Stellammi_65 Start: 39104, Stop: 39328, Start Num: 36

Candidate Starts for Stellammi_65:

(12, 38903), (13, 38906), (18, 38945), (19, 38954), (26, 39020), (31, 39047), (35, 39092), (Start: 36 @39104 has 1 MA's), (40, 39122), (43, 39134), (57, 39224), (58, 39227), (64, 39251), (73, 39320),

Gene: Stinson_46 Start: 35903, Stop: 36169, Start Num: 24

Candidate Starts for Stinson_46:

(Start: 24 @35903 has 209 MA's), (47, 36032), (69, 36131),

Gene: Strobilo_48 Start: 37514, Stop: 37771, Start Num: 24

Candidate Starts for Strobilo_48:

(Start: 24 @37514 has 209 MA's), (44, 37625), (47, 37643),

Gene: Strokeseat_47 Start: 35111, Stop: 35371, Start Num: 24

Candidate Starts for Strokeseat_47:

(Start: 24 @35111 has 209 MA's), (30, 35129), (32, 35138), (34, 35162), (Start: 36 @35183 has 1 MA's), (46, 35237), (48, 35243), (49, 35246), (66, 35318), (69, 35324), (70, 35336),

Gene: Sulley_45 Start: 35640, Stop: 35906, Start Num: 24

Candidate Starts for Sulley_45:

(Start: 24 @35640 has 209 MA's), (47, 35769),

Gene: SuperGrey_50 Start: 37482, Stop: 37742, Start Num: 24

Candidate Starts for SuperGrey_50:

(Start: 24 @37482 has 209 MA's), (30, 37500), (32, 37509), (34, 37533), (Start: 36 @37554 has 1 MA's), (46, 37608), (48, 37614), (49, 37617), (66, 37689), (69, 37695), (70, 37707),

Gene: SwagPiggett_56 Start: 39180, Stop: 39440, Start Num: 24

Candidate Starts for SwagPiggett_56:

(1, 38517), (2, 38688), (3, 38754), (Start: 14 @39081 has 4 MA's), (16, 39096), (22, 39150), (Start: 24 @39180 has 209 MA's), (30, 39198), (32, 39207), (34, 39231), (Start: 36 @39252 has 1 MA's), (46, 39306), (48, 39312), (49, 39315), (66, 39387), (69, 39393), (70, 39405),

Gene: TChen_50 Start: 37233, Stop: 37508, Start Num: 24

Candidate Starts for TChen_50:

(Start: 24 @37233 has 209 MA's), (34, 37284), (Start: 36 @37305 has 1 MA's), (45, 37347), (46, 37359), (48, 37365), (49, 37368), (65, 37446), (66, 37455), (69, 37461), (70, 37473),

Gene: TClif_49 Start: 36567, Stop: 36848, Start Num: 24

Candidate Starts for TClif_49:

(Start: 24 @36567 has 209 MA's), (38, 36657), (47, 36705),

Gene: TM4_43 Start: 31897, Stop: 32154, Start Num: 24

Candidate Starts for TM4_43:

(Start: 24 @31897 has 209 MA's), (28, 31909), (47, 32026),

Gene: Tachez_45 Start: 35358, Stop: 35624, Start Num: 24

Candidate Starts for Tachez_45:

(Start: 24 @35358 has 209 MA's), (47, 35487),

Gene: TaiwanKao_47 Start: 35635, Stop: 35925, Start Num: 24

Candidate Starts for TaiwanKao_47:

(Start: 24 @35635 has 209 MA's), (47, 35764),

Gene: Taj_53 Start: 37144, Stop: 37428, Start Num: 24

Candidate Starts for Taj_53:

(Start: 24 @37144 has 209 MA's), (30, 37165), (37, 37225), (41, 37243), (50, 37294), (54, 37321), (55, 37327), (56, 37330), (66, 37369), (71, 37405),

Gene: TiniBug_46 Start: 36288, Stop: 36554, Start Num: 24

Candidate Starts for TiniBug_46:

(Start: 24 @36288 has 209 MA's), (47, 36417), (69, 36516),

Gene: Tiri_46 Start: 35688, Stop: 35954, Start Num: 24

Candidate Starts for Tiri_46:

(Start: 24 @35688 has 209 MA's), (47, 35817),

Gene: Topper_45 Start: 35513, Stop: 35779, Start Num: 24

Candidate Starts for Topper_45:

(Start: 24 @35513 has 209 MA's), (47, 35642),

Gene: Torres_43 Start: 37595, Stop: 37879, Start Num: 24

Candidate Starts for Torres_43:

(Start: 24 @37595 has 209 MA's), (47, 37733),

Gene: TreyKay_46 Start: 35579, Stop: 35869, Start Num: 24

Candidate Starts for TreyKay_46:

(Start: 24 @35579 has 209 MA's), (47, 35708),

Gene: TruffulaTree_45 Start: 35392, Stop: 35658, Start Num: 24

Candidate Starts for TruffulaTree_45:

(Start: 24 @35392 has 209 MA's), (47, 35521),

Gene: Twitch_45 Start: 35515, Stop: 35781, Start Num: 24

Candidate Starts for Twitch_45:

(Start: 24 @35515 has 209 MA's), (47, 35644),

Gene: Urkel_46 Start: 36292, Stop: 36558, Start Num: 24

Candidate Starts for Urkel_46:

(Start: 24 @36292 has 209 MA's), (47, 36421), (69, 36520),

Gene: VRedHorse_50 Start: 36119, Stop: 36382, Start Num: 24

Candidate Starts for VRedHorse_50:

(Start: 24 @36119 has 209 MA's), (30, 36137), (32, 36146), (34, 36170), (Start: 36 @36191 has 1 MA's), (46, 36245), (48, 36251), (49, 36254), (66, 36326), (69, 36332), (70, 36344), (72, 36368),

Gene: Validus_49 Start: 36187, Stop: 36471, Start Num: 24
Candidate Starts for Validus_49:
(Start: 24 @36187 has 209 MA's), (38, 36277), (47, 36325),

Gene: Veliki_45 Start: 35432, Stop: 35698, Start Num: 24
Candidate Starts for Veliki_45:
(Start: 24 @35432 has 209 MA's), (47, 35561),

Gene: Velveteen_45 Start: 32920, Stop: 33180, Start Num: 24
Candidate Starts for Velveteen_45:
(Start: 24 @32920 has 209 MA's), (30, 32938), (32, 32947), (34, 32971), (Start: 36 @32992 has 1 MA's), (46, 33046), (48, 33052), (49, 33055), (58, 33100), (63, 33118), (66, 33127), (69, 33133), (70, 33145),

Gene: Violac_53 Start: 38220, Stop: 38480, Start Num: 24
Candidate Starts for Violac_53:
(Start: 24 @38220 has 209 MA's), (30, 38238), (32, 38247), (34, 38271), (Start: 36 @38292 has 1 MA's), (46, 38346), (48, 38352), (49, 38355), (58, 38400), (63, 38418), (66, 38427), (69, 38433), (70, 38445),

Gene: Wachhund_52 Start: 36526, Stop: 36786, Start Num: 24
Candidate Starts for Wachhund_52:
(Start: 24 @36526 has 209 MA's), (30, 36544), (32, 36553), (34, 36577), (Start: 36 @36598 has 1 MA's), (46, 36652), (48, 36658), (49, 36661), (66, 36733), (69, 36739), (70, 36751),

Gene: Wee_52 Start: 37416, Stop: 37700, Start Num: 24
Candidate Starts for Wee_52:
(Start: 24 @37416 has 209 MA's), (30, 37437), (37, 37497), (41, 37515), (50, 37566), (54, 37593), (55, 37599), (56, 37602), (66, 37641), (71, 37677),

Gene: Whatsapiecost_49 Start: 35788, Stop: 36048, Start Num: 24
Candidate Starts for Whatsapiecost_49:
(Start: 24 @35788 has 209 MA's), (30, 35806), (32, 35815), (34, 35839), (Start: 36 @35860 has 1 MA's), (46, 35914), (48, 35920), (49, 35923), (66, 35995), (69, 36001), (70, 36013), (72, 36037),

Gene: WillSterrel_51 Start: 38121, Stop: 38381, Start Num: 24
Candidate Starts for WillSterrel_51:
(Start: 24 @38121 has 209 MA's), (30, 38139), (32, 38148), (34, 38172), (Start: 36 @38193 has 1 MA's), (46, 38247), (48, 38253), (49, 38256), (58, 38301), (63, 38319), (66, 38328), (69, 38334), (70, 38346),

Gene: XFactor_48 Start: 35606, Stop: 35869, Start Num: 24
Candidate Starts for XFactor_48:
(Start: 24 @35606 has 209 MA's), (30, 35624), (32, 35633), (34, 35657), (Start: 36 @35678 has 1 MA's), (46, 35732), (48, 35738), (49, 35741), (63, 35804), (66, 35813), (69, 35819), (70, 35831), (72, 35855),

Gene: YoureAdopted_44 Start: 35597, Stop: 35863, Start Num: 24
Candidate Starts for YoureAdopted_44:
(Start: 24 @35597 has 209 MA's), (47, 35726),

Gene: Yunkel11_47 Start: 35179, Stop: 35484, Start Num: 23
Candidate Starts for Yunkel11_47:
(Start: 23 @35179 has 3 MA's), (38, 35290), (47, 35338), (53, 35380),

Gene: Zabiza_40 Start: 31703, Stop: 31969, Start Num: 24
Candidate Starts for Zabiza_40:
(Start: 24 @31703 has 209 MA's), (47, 31832),

Gene: Zavala_46 Start: 35674, Stop: 35940, Start Num: 24
Candidate Starts for Zavala_46:
(Start: 24 @35674 has 209 MA's), (47, 35803),

Gene: Zizzle_56 Start: 38765, Stop: 39124, Start Num: 14
Candidate Starts for Zizzle_56:
(1, 38201), (2, 38372), (3, 38438), (Start: 14 @38765 has 4 MA's), (16, 38780), (22, 38834), (Start: 24 @38864 has 209 MA's), (30, 38882), (32, 38891), (34, 38915), (Start: 36 @38936 has 1 MA's), (46, 38990), (48, 38996), (49, 38999), (66, 39071), (69, 39077), (70, 39089),

Gene: ZoeJ_47 Start: 36989, Stop: 37246, Start Num: 24
Candidate Starts for ZoeJ_47:
(Start: 24 @36989 has 209 MA's), (47, 37118),