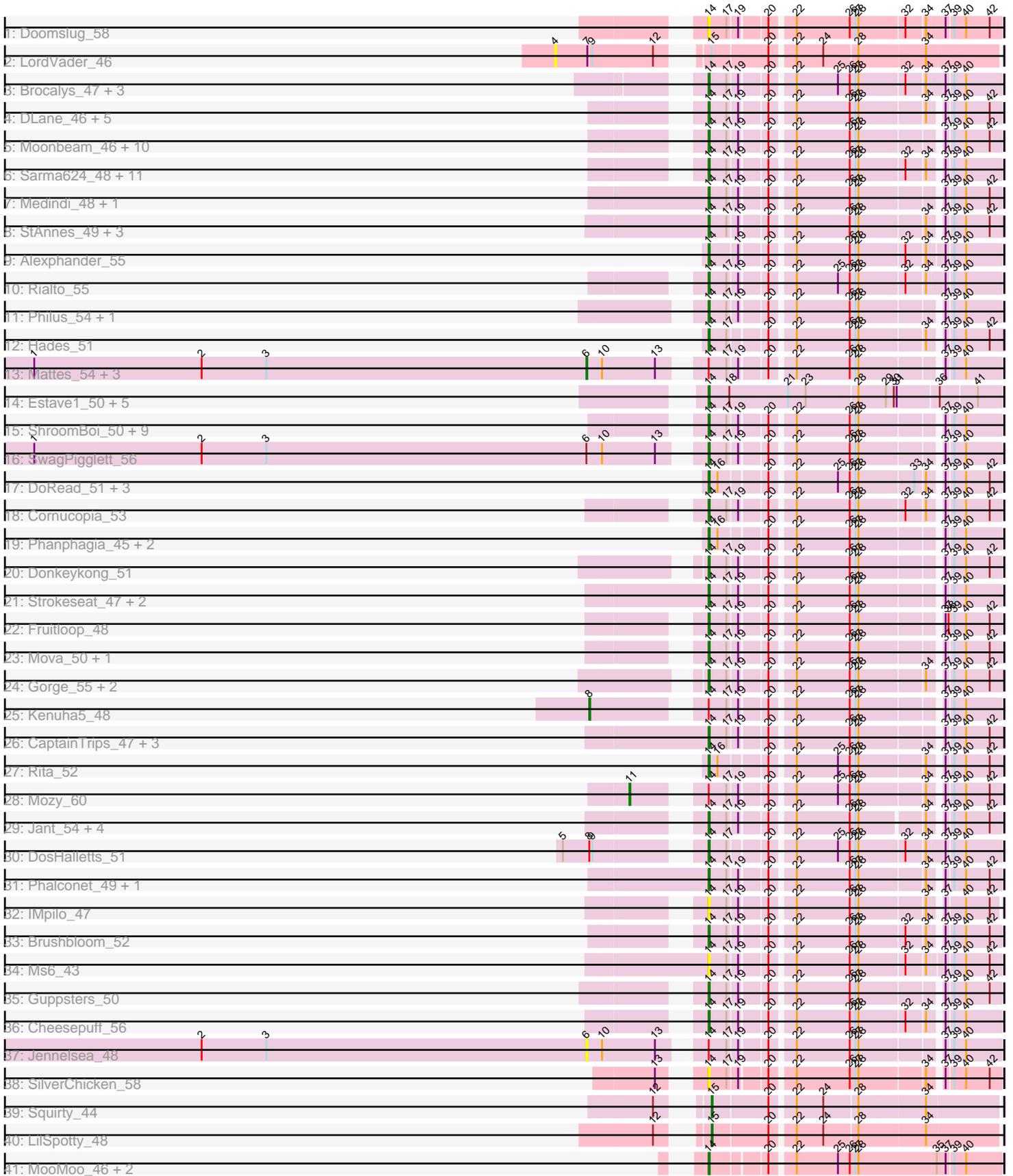


Pham 283642



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 283642 Report

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

Pham number 283642 has 112 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Doomslug_58
- Track 2 : LordVader_46
- Track 3 : Brocalys_47, Pippy_50, Clifton_47, LastJedi_46
- Track 4 : DLane_46, Corium_47, Akhila_42, KingJulian_49, MilanaBonita_42, PatoPoderoso_47
- Track 5 : Moonbeam_46, EleanorGeorge_48, Ardmore_41, Mutaforma13_53, Whatsapiecost_49, Filuzino_48, Batiatus_48, Emma_50, Juice456_52, Soul22_54, MilleniumForce_50
- Track 6 : Sarma624_48, Minnie_55, IrishSherpFalk_51, Kingsley_47, Velveteen_45, BigPhil_46, Violac_53, WillSterrel_51, Brookers_47, Cerasum_46, Spartacus_52, Coco12_49
- Track 7 : Medindi_48, Ovechkin_47
- Track 8 : StAnnes_49, XFactor_48, Melissauren88_48, Bobi_52
- Track 9 : Alexphander_55
- Track 10 : Rialto_55
- Track 11 : Philus_54, DRBy19_54
- Track 12 : Hades_51
- Track 13 : Mattes_54, James_54, Zizzle_56, BobaPhett_54
- Track 14 : Estave1_50, Renaud18_55, DeadP_55, Blarby_61, Taj_53, Wee_52
- Track 15 : ShroomBoi_50, Enzomatic_58, Polo2Bam_57, LunaBlu_54, SuperGrey_50, Wachhund_52, NewHope4_53, KristaRAM_49, Galactic_51, Clank_53
- Track 16 : SwagPiggett_56
- Track 17 : DoRead_51, Juniper1_48, SimranZ1_49, Byougenkin_48
- Track 18 : Cornucopia_53
- Track 19 : Phanphagia_45, Shauna1_45, Bipolar_47
- Track 20 : Donkeykong_51
- Track 21 : Strokeseat_47, Mandlovu_47, Hlubikazi_47
- Track 22 : Fruitloop_48
- Track 23 : Mova_50, VRedHorse_50
- Track 24 : Gorge_55, Saal_53, ByChance_42
- Track 25 : Kenuha5_48
- Track 26 : CaptainTrips_47, Beakin_52, MinionDave_49, Hegedechwinu_50
- Track 27 : Rita_52
- Track 28 : Mozy_60
- Track 29 : Jant_54, Flathead_49, SG4_47, Enby_51, Lorde_51
- Track 30 : DosHalletts_51

- Track 31 : Phalconet_49, PhesterPhotato_52
- Track 32 : IMpilo_47
- Track 33 : Brushbloom_52
- Track 34 : Ms6_43
- Track 35 : Guppsters_50
- Track 36 : Cheesepuff_56
- Track 37 : Jennelsea_48
- Track 38 : SilverChicken_58
- Track 39 : Squirty_44
- Track 40 : LilSpotty_48
- Track 41 : 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 14, it was called in 89 of the 97 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_42, Alexphander_55, Ardmore_41, Batiatus_48, Beakin_52, BigPhil_46, Bipolar_47, Blarby_61, Bobi_52, Brocalys_47, Brookers_47, Brushbloom_52, ByChance_42, Byougenkin_48, CaptainTrips_47, Cerasum_46, Cheesepuff_56, Clank_53, Clifton_47, Coco12_49, Corium_47, Cornucopia_53, DLane_46, DRBy19_54, DeadP_55, DoRead_51, Donkeykong_51, Doomslug_58, DosHalletts_51, EleanorGeorge_48, Emma_50, Enby_51, Enzomatic_58, Estave1_50, Filuzino_48, Flathead_49, Fruitloop_48, Galactic_51, Gorge_55, Guppsters_50, Hades_51, Hegedechwinu_50, Hlubikazi_47, IMpilo_47, IrishSherpFalk_51, Jant_54, Juice456_52, Juniper1_48, KingJulian_49, Kingsley_47, KristaRAM_49, LastJedi_46, Lorde_51, LunaBlu_54, LunaStella_48, Mandlovu_47, Medindi_48, Melissauren88_48, MilanaBonita_42, MilleniumForce_50, MinionDave_49, Minnie_55, MooMoo_46, Moonbeam_46, Mova_50, Ms6_43, Mutaforma13_53, NewHope4_53, Ovechkin_47, PatoPoderoso_47, Phalconet_49, Phanphagia_45, PhesterPhotato_52, Philus_54, Pippy_50, Polo2Bam_57, Renaud18_55, Rialto_55, Rita_52, SG4_47, Saal_53, Sarma624_48, Shauna1_45, ShroomBoi_50, SilverChicken_58, SimranZ1_49, Soul22_54, Spartacus_52, StAnnes_49, Strokeseat_47, SuperGrey_50, SwagPigglett_56, TChen_50, Taj_53, VRedHorse_50, Velveteen_45, Violac_53, Wachhund_52, Wee_52, Whatsapiecost_49, WillSterrel_51, XFactor_48,

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

- BobaPhett_54, James_54, Jennelsea_48, Kenuha5_48, Mattes_54, Mozy_60, Zizzle_56,

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

- LilSpotty_48, LordVader_46, Squirty_44,

Summary by start number:

Start 4:

- Found in 1 of 112 (0.9%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: LordVader_46 (F),

Start 6:

- Found in 6 of 112 (5.4%) of genes in pham
- Manual Annotations of this start: 4 of 97
- Called 83.3% of time when present
- Phage (with cluster) where this start called: BobaPhett_54 (F1), James_54 (F1), Jennelsea_48 (F1), Mattes_54 (F1), Zizzle_56 (F1),

Start 8:

- Found in 2 of 112 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 97
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kenuha5_48 (F1),

Start 11:

- Found in 1 of 112 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 97
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mozy_60 (F1),

Start 14:

- Found in 109 of 112 (97.3%) of genes in pham
- Manual Annotations of this start: 89 of 97
- Called 93.6% of time when present
- Phage (with cluster) where this start called: Akhila_42 (F1), Alexphander_55 (F1), Ardmore_41 (F1), Batiatus_48 (F1), Beakin_52 (F1), BigPhil_46 (F1), Bipolar_47 (F1), Blarby_61 (F), Bobi_52 (F1), Brocalys_47 (F1), Brookers_47 (F1), Brushbloom_52 (F1), ByChance_42 (F1), Byougenkin_48 (F1), CaptainTrips_47 (F1), Cerasum_46 (F1), Cheesepuff_56 (F1), Clank_53 (F), Clifton_47 (F1), Coco12_49 (F1), Corium_47 (F1), Cornucopia_53 (F1), DLane_46 (F1), DRBy19_54 (F1), DeadP_55 (F1), DoRead_51 (F1), Donkeykong_51 (F1), Doomslug_58 (F), DosHalletts_51 (F1), EleanorGeorge_48 (F1), Emma_50 (F1), Enby_51 (F1), Enzomatic_58 (F1), Estave1_50 (F1), Filuzino_48 (F1), Flathead_49 (F1), Fruitloop_48 (F1), Galactic_51 (F1), Gorge_55 (F1), Guppsters_50 (F1), Hades_51 (F1), Hegedechwinu_50 (F1), Hlubikazi_47 (F1), IMpilo_47 (F1), IrishSherpFalk_51 (F1), Jant_54 (F1), Juice456_52 (F1), Juniper1_48 (F1), KingJulian_49 (F1), Kingsley_47 (F1), KristaRAM_49 (F1), LastJedi_46 (F1), Lorde_51 (F1), LunaBlu_54 (F1), LunaStella_48 (F4), Mandlovu_47 (F1), Medindi_48 (F1), Melissauren88_48 (F1), MilanaBonita_42 (F1), MilleniumForce_50 (F1), MinionDave_49 (F1), Minnie_55 (F1), MooMoo_46 (singleton), Moonbeam_46 (F1), Mova_50 (F1), Ms6_43 (F1), Mutaforma13_53 (F1), NewHope4_53 (F1), Ovechkin_47 (F1), PatoPoderoso_47 (F1), Phalconet_49 (F1), Phanphagia_45 (F1), PhesterPhotato_52 (F1), Philus_54 (F1), Pippy_50 (F1), Polo2Bam_57 (F1), Renaud18_55 (F4), Rialto_55 (F1), Rita_52 (F1), SG4_47 (F1), Saal_53 (F1), Sarma624_48 (F1), Shauna1_45 (F1), ShroomBoi_50 (F1), SilverChicken_58 (F2), SimranZ1_49 (F1), Soul22_54 (F2), Spartacus_52 (F1), StAnnes_49 (F1), Strokeseat_47 (F1), SuperGrey_50 (F1), SwagPigglett_56 (F1), TChen_50 (F4), Taj_53 (F1), VRedHorse_50 (F1), Velveteen_45 (F1), Violac_53 (F1), Wachhund_52 (F1), Wee_52 (F1), Whatsapiecost_49 (F1), WillSterrel_51 (F1), XFactor_48 (F1),

Start 15:

- Found in 3 of 112 (2.7%) of genes in pham
- Manual Annotations of this start: 2 of 97
- Called 66.7% of time when present
- Phage (with cluster) where this start called: LilSpotty_48 (singleton), Squirty_44 (F3),

Summary by clusters:

There are 6 clusters represented in this pham: F1, singleton, F3, F4, F, F2,

Info for manual annotations of cluster F1:

- Start number 6 was manually annotated 4 times for cluster F1.
- Start number 8 was manually annotated 1 time for cluster F1.
- Start number 11 was manually annotated 1 time for cluster F1.
- Start number 14 was manually annotated 84 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 14 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F3:

- Start number 15 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:

- Start number 14 was manually annotated 3 times for cluster F4.

Gene Information:

Gene: Akhila_42 Start: 32431, Stop: 32691, Start Num: 14

Candidate Starts for Akhila_42:

(Start: 14 @32431 has 89 MA's), (17, 32449), (19, 32458), (20, 32482), (22, 32503), (26, 32557), (27, 32563), (28, 32566), (34, 32629), (37, 32638), (39, 32644), (40, 32656), (42, 32680),

Gene: Alexphander_55 Start: 37472, Stop: 37738, Start Num: 14

Candidate Starts for Alexphander_55:

(Start: 14 @37472 has 89 MA's), (19, 37499), (20, 37523), (22, 37544), (26, 37598), (27, 37604), (28, 37607), (32, 37652), (34, 37670), (37, 37685), (39, 37691), (40, 37703),

Gene: Ardmore_41 Start: 34224, Stop: 34484, Start Num: 14

Candidate Starts for Ardmore_41:

(Start: 14 @34224 has 89 MA's), (17, 34242), (19, 34251), (20, 34275), (22, 34296), (26, 34350), (27, 34356), (28, 34359), (37, 34431), (39, 34437), (40, 34449), (42, 34473),

Gene: Batiatus_48 Start: 36640, Stop: 36903, Start Num: 14

Candidate Starts for Batiatus_48:

(Start: 14 @36640 has 89 MA's), (17, 36658), (19, 36667), (20, 36691), (22, 36712), (26, 36766), (27, 36772), (28, 36775), (37, 36847), (39, 36853), (40, 36865), (42, 36889),

Gene: Beakin_52 Start: 36460, Stop: 36720, Start Num: 14

Candidate Starts for Beakin_52:

(Start: 14 @36460 has 89 MA's), (17, 36478), (19, 36487), (20, 36511), (22, 36532), (26, 36586), (27, 36592), (28, 36595), (37, 36667), (39, 36673), (40, 36685), (42, 36709),

Gene: BigPhil_46 Start: 32920, Stop: 33180, Start Num: 14

Candidate Starts for BigPhil_46:

(Start: 14 @32920 has 89 MA's), (17, 32938), (19, 32947), (20, 32971), (22, 32992), (26, 33046), (27, 33052), (28, 33055), (32, 33100), (34, 33118), (37, 33127), (39, 33133), (40, 33145),

Gene: Bipolar_47 Start: 36374, Stop: 36634, Start Num: 14

Candidate Starts for Bipolar_47:

(Start: 14 @36374 has 89 MA's), (16, 36383), (20, 36425), (22, 36446), (26, 36500), (27, 36506), (28, 36509), (37, 36581), (39, 36587), (40, 36599),

Gene: Blarby_61 Start: 37278, Stop: 37565, Start Num: 14

Candidate Starts for Blarby_61:

(Start: 14 @37278 has 89 MA's), (18, 37299), (21, 37359), (23, 37377), (28, 37428), (29, 37455), (30, 37461), (31, 37464), (36, 37506), (41, 37542),

Gene: BobaPhett_54 Start: 39312, Stop: 39671, Start Num: 6

Candidate Starts for BobaPhett_54:

(1, 38748), (2, 38919), (3, 38985), (Start: 6 @39312 has 4 MA's), (10, 39327), (13, 39381), (Start: 14 @39411 has 89 MA's), (17, 39429), (19, 39438), (20, 39462), (22, 39483), (26, 39537), (27, 39543), (28, 39546), (37, 39618), (39, 39624), (40, 39636),

Gene: Bobi_52 Start: 37227, Stop: 37487, Start Num: 14

Candidate Starts for Bobi_52:

(Start: 14 @37227 has 89 MA's), (17, 37245), (19, 37254), (20, 37278), (22, 37299), (26, 37353), (27, 37359), (28, 37362), (34, 37425), (37, 37434), (39, 37440), (40, 37452), (42, 37476),

Gene: Brocalys_47 Start: 34063, Stop: 34332, Start Num: 14

Candidate Starts for Brocalys_47:

(Start: 14 @34063 has 89 MA's), (17, 34081), (19, 34090), (20, 34114), (22, 34135), (25, 34177), (26, 34189), (27, 34195), (28, 34198), (32, 34243), (34, 34261), (37, 34279), (39, 34285), (40, 34297),

Gene: Brookers_47 Start: 35871, Stop: 36131, Start Num: 14

Candidate Starts for Brookers_47:

(Start: 14 @35871 has 89 MA's), (17, 35889), (19, 35898), (20, 35922), (22, 35943), (26, 35997), (27, 36003), (28, 36006), (32, 36051), (34, 36069), (37, 36078), (39, 36084), (40, 36096),

Gene: Brushbloom_52 Start: 37079, Stop: 37339, Start Num: 14

Candidate Starts for Brushbloom_52:

(Start: 14 @37079 has 89 MA's), (17, 37097), (19, 37106), (20, 37130), (22, 37151), (26, 37205), (27, 37211), (28, 37214), (32, 37259), (34, 37277), (37, 37286), (39, 37292), (40, 37304), (42, 37328),

Gene: ByChance_42 Start: 32434, Stop: 32697, Start Num: 14

Candidate Starts for ByChance_42:

(Start: 14 @32434 has 89 MA's), (17, 32452), (19, 32461), (20, 32485), (22, 32506), (26, 32560), (27, 32566), (28, 32569), (34, 32632), (37, 32641), (39, 32647), (40, 32659), (42, 32683),

Gene: Byougenkin_48 Start: 36458, Stop: 36718, Start Num: 14

Candidate Starts for Byougenkin_48:

(Start: 14 @36458 has 89 MA's), (16, 36467), (20, 36509), (22, 36530), (25, 36572), (26, 36584), (27, 36590), (28, 36593), (33, 36647), (34, 36656), (37, 36665), (39, 36671), (40, 36683), (42, 36707),

Gene: CaptainTrips_47 Start: 35660, Stop: 35923, Start Num: 14

Candidate Starts for CaptainTrips_47:

(Start: 14 @35660 has 89 MA's), (17, 35678), (19, 35687), (20, 35711), (22, 35732), (26, 35786), (27, 35792), (28, 35795), (37, 35867), (39, 35873), (40, 35885), (42, 35909),

Gene: Cerasum_46 Start: 32938, Stop: 33198, Start Num: 14

Candidate Starts for Cerasum_46:

(Start: 14 @32938 has 89 MA's), (17, 32956), (19, 32965), (20, 32989), (22, 33010), (26, 33064), (27, 33070), (28, 33073), (32, 33118), (34, 33136), (37, 33145), (39, 33151), (40, 33163),

Gene: Cheesepuff_56 Start: 38596, Stop: 38856, Start Num: 14

Candidate Starts for Cheesepuff_56:

(Start: 14 @38596 has 89 MA's), (17, 38614), (19, 38623), (20, 38647), (22, 38668), (26, 38722), (27, 38728), (28, 38731), (32, 38776), (34, 38794), (37, 38803), (39, 38809), (40, 38821),

Gene: Clank_53 Start: 37190, Stop: 37450, Start Num: 14

Candidate Starts for Clank_53:

(Start: 14 @37190 has 89 MA's), (17, 37208), (19, 37217), (20, 37241), (22, 37262), (26, 37316), (27, 37322), (28, 37325), (37, 37397), (39, 37403), (40, 37415),

Gene: Clifton_47 Start: 34414, Stop: 34683, Start Num: 14

Candidate Starts for Clifton_47:

(Start: 14 @34414 has 89 MA's), (17, 34432), (19, 34441), (20, 34465), (22, 34486), (25, 34528), (26, 34540), (27, 34546), (28, 34549), (32, 34594), (34, 34612), (37, 34630), (39, 34636), (40, 34648),

Gene: Coco12_49 Start: 36995, Stop: 37255, Start Num: 14

Candidate Starts for Coco12_49:

(Start: 14 @36995 has 89 MA's), (17, 37013), (19, 37022), (20, 37046), (22, 37067), (26, 37121), (27, 37127), (28, 37130), (32, 37175), (34, 37193), (37, 37202), (39, 37208), (40, 37220),

Gene: Corium_47 Start: 35745, Stop: 36005, Start Num: 14

Candidate Starts for Corium_47:

(Start: 14 @35745 has 89 MA's), (17, 35763), (19, 35772), (20, 35796), (22, 35817), (26, 35871), (27, 35877), (28, 35880), (34, 35943), (37, 35952), (39, 35958), (40, 35970), (42, 35994),

Gene: Cornucopia_53 Start: 37702, Stop: 37962, Start Num: 14

Candidate Starts for Cornucopia_53:

(Start: 14 @37702 has 89 MA's), (17, 37720), (19, 37729), (20, 37753), (22, 37774), (26, 37828), (27, 37834), (28, 37837), (32, 37882), (34, 37900), (37, 37909), (39, 37915), (40, 37927), (42, 37951),

Gene: DLane_46 Start: 35745, Stop: 36005, Start Num: 14

Candidate Starts for DLane_46:

(Start: 14 @35745 has 89 MA's), (17, 35763), (19, 35772), (20, 35796), (22, 35817), (26, 35871), (27, 35877), (28, 35880), (34, 35943), (37, 35952), (39, 35958), (40, 35970), (42, 35994),

Gene: DRBy19_54 Start: 38199, Stop: 38459, Start Num: 14

Candidate Starts for DRBy19_54:

(Start: 14 @38199 has 89 MA's), (17, 38217), (19, 38226), (20, 38250), (22, 38271), (26, 38325), (27, 38331), (28, 38334), (37, 38406), (39, 38412), (40, 38424),

Gene: DeadP_55 Start: 37934, Stop: 38218, Start Num: 14

Candidate Starts for DeadP_55:

(Start: 14 @37934 has 89 MA's), (18, 37955), (21, 38015), (23, 38033), (28, 38084), (29, 38111), (30, 38117), (31, 38120), (36, 38159), (41, 38195),

Gene: DoRead_51 Start: 35474, Stop: 35734, Start Num: 14

Candidate Starts for DoRead_51:

(Start: 14 @35474 has 89 MA's), (16, 35483), (20, 35525), (22, 35546), (25, 35588), (26, 35600), (27, 35606), (28, 35609), (33, 35663), (34, 35672), (37, 35681), (39, 35687), (40, 35699), (42, 35723),

Gene: Donkeykong_51 Start: 38545, Stop: 38805, Start Num: 14

Candidate Starts for Donkeykong_51:

(Start: 14 @38545 has 89 MA's), (17, 38563), (19, 38572), (20, 38596), (22, 38617), (26, 38671), (27, 38677), (28, 38680), (37, 38752), (39, 38758), (40, 38770), (42, 38794),

Gene: Doomslug_58 Start: 36353, Stop: 36622, Start Num: 14

Candidate Starts for Doomslug_58:

(Start: 14 @36353 has 89 MA's), (17, 36371), (19, 36380), (20, 36404), (22, 36425), (26, 36479), (27, 36485), (28, 36488), (32, 36533), (34, 36551), (37, 36569), (39, 36575), (40, 36587), (42, 36611),

Gene: DosHalletts_51 Start: 37887, Stop: 38156, Start Num: 14

Candidate Starts for DosHalletts_51:

(5, 37767), (Start: 8 @37794 has 1 MA's), (9, 37797), (Start: 14 @37887 has 89 MA's), (17, 37905), (20, 37938), (22, 37959), (25, 38001), (26, 38013), (27, 38019), (28, 38022), (32, 38067), (34, 38085), (37, 38103), (39, 38109), (40, 38121),

Gene: EleanorGeorge_48 Start: 36028, Stop: 36288, Start Num: 14

Candidate Starts for EleanorGeorge_48:

(Start: 14 @36028 has 89 MA's), (17, 36046), (19, 36055), (20, 36079), (22, 36100), (26, 36154), (27, 36160), (28, 36163), (37, 36235), (39, 36241), (40, 36253), (42, 36277),

Gene: Emma_50 Start: 35972, Stop: 36232, Start Num: 14

Candidate Starts for Emma_50:

(Start: 14 @35972 has 89 MA's), (17, 35990), (19, 35999), (20, 36023), (22, 36044), (26, 36098), (27, 36104), (28, 36107), (37, 36179), (39, 36185), (40, 36197), (42, 36221),

Gene: Enby_51 Start: 35146, Stop: 35409, Start Num: 14

Candidate Starts for Enby_51:

(Start: 14 @35146 has 89 MA's), (17, 35164), (19, 35173), (20, 35197), (22, 35218), (26, 35272), (27, 35278), (28, 35281), (34, 35344), (37, 35353), (39, 35359), (40, 35371), (42, 35395),

Gene: Enzomatic_58 Start: 37055, Stop: 37315, Start Num: 14

Candidate Starts for Enzomatic_58:

(Start: 14 @37055 has 89 MA's), (17, 37073), (19, 37082), (20, 37106), (22, 37127), (26, 37181), (27, 37187), (28, 37190), (37, 37262), (39, 37268), (40, 37280),

Gene: Estave1_50 Start: 36122, Stop: 36406, Start Num: 14

Candidate Starts for Estave1_50:

(Start: 14 @36122 has 89 MA's), (18, 36143), (21, 36203), (23, 36221), (28, 36272), (29, 36299), (30, 36305), (31, 36308), (36, 36347), (41, 36383),

Gene: Filuzino_48 Start: 35552, Stop: 35812, Start Num: 14

Candidate Starts for Filuzino_48:

(Start: 14 @35552 has 89 MA's), (17, 35570), (19, 35579), (20, 35603), (22, 35624), (26, 35678), (27, 35684), (28, 35687), (37, 35759), (39, 35765), (40, 35777), (42, 35801),

Gene: Flathead_49 Start: 36925, Stop: 37185, Start Num: 14

Candidate Starts for Flathead_49:

(Start: 14 @36925 has 89 MA's), (17, 36943), (19, 36952), (20, 36976), (22, 36997), (26, 37051), (27, 37057), (28, 37060), (34, 37123), (37, 37132), (39, 37138), (40, 37150), (42, 37174),

Gene: Fruitloop_48 Start: 37415, Stop: 37678, Start Num: 14

Candidate Starts for Fruitloop_48:

(Start: 14 @37415 has 89 MA's), (17, 37433), (19, 37442), (20, 37466), (22, 37487), (26, 37541), (27, 37547), (28, 37550), (37, 37622), (38, 37625), (39, 37631), (40, 37643), (42, 37667),

Gene: Galactic_51 Start: 37171, Stop: 37431, Start Num: 14

Candidate Starts for Galactic_51:

(Start: 14 @37171 has 89 MA's), (17, 37189), (19, 37198), (20, 37222), (22, 37243), (26, 37297), (27, 37303), (28, 37306), (37, 37378), (39, 37384), (40, 37396),

Gene: Gorge_55 Start: 38326, Stop: 38589, Start Num: 14

Candidate Starts for Gorge_55:

(Start: 14 @38326 has 89 MA's), (17, 38344), (19, 38353), (20, 38377), (22, 38398), (26, 38452), (27, 38458), (28, 38461), (34, 38524), (37, 38533), (39, 38539), (40, 38551), (42, 38575),

Gene: Guppsters_50 Start: 36031, Stop: 36291, Start Num: 14

Candidate Starts for Guppsters_50:

(Start: 14 @36031 has 89 MA's), (17, 36049), (19, 36058), (20, 36082), (22, 36103), (26, 36157), (27, 36163), (28, 36166), (37, 36238), (39, 36244), (40, 36256), (42, 36280),

Gene: Hades_51 Start: 36925, Stop: 37188, Start Num: 14

Candidate Starts for Hades_51:

(Start: 14 @36925 has 89 MA's), (17, 36943), (20, 36976), (22, 36997), (26, 37051), (27, 37057), (28, 37060), (34, 37123), (37, 37132), (39, 37138), (40, 37150), (42, 37174),

Gene: Hegedechwinu_50 Start: 35352, Stop: 35612, Start Num: 14

Candidate Starts for Hegedechwinu_50:

(Start: 14 @35352 has 89 MA's), (17, 35370), (19, 35379), (20, 35403), (22, 35424), (26, 35478), (27, 35484), (28, 35487), (37, 35559), (39, 35565), (40, 35577), (42, 35601),

Gene: Hlubikazi_47 Start: 35112, Stop: 35372, Start Num: 14

Candidate Starts for Hlubikazi_47:

(Start: 14 @35112 has 89 MA's), (17, 35130), (19, 35139), (20, 35163), (22, 35184), (26, 35238), (27, 35244), (28, 35247), (37, 35319), (39, 35325), (40, 35337),

Gene: IMpilo_47 Start: 35025, Stop: 35282, Start Num: 14

Candidate Starts for IMpilo_47:

(Start: 14 @35025 has 89 MA's), (17, 35043), (19, 35052), (20, 35076), (22, 35097), (26, 35151), (27, 35157), (28, 35160), (34, 35223), (37, 35232), (40, 35250), (42, 35274),

Gene: IrishSherpFalk_51 Start: 38088, Stop: 38348, Start Num: 14

Candidate Starts for IrishSherpFalk_51:

(Start: 14 @38088 has 89 MA's), (17, 38106), (19, 38115), (20, 38139), (22, 38160), (26, 38214), (27, 38220), (28, 38223), (32, 38268), (34, 38286), (37, 38295), (39, 38301), (40, 38313),

Gene: James_54 Start: 38190, Stop: 38549, Start Num: 6

Candidate Starts for James_54:

(1, 37626), (2, 37797), (3, 37863), (Start: 6 @38190 has 4 MA's), (10, 38205), (13, 38259), (Start: 14 @38289 has 89 MA's), (17, 38307), (19, 38316), (20, 38340), (22, 38361), (26, 38415), (27, 38421),

(28, 38424), (37, 38496), (39, 38502), (40, 38514),

Gene: Jant_54 Start: 38426, Stop: 38683, Start Num: 14

Candidate Starts for Jant_54:

(Start: 14 @38426 has 89 MA's), (17, 38444), (19, 38453), (20, 38477), (22, 38498), (26, 38552), (27, 38558), (28, 38561), (34, 38621), (37, 38630), (39, 38636), (40, 38648), (42, 38672),

Gene: Jennelsea_48 Start: 35620, Stop: 35979, Start Num: 6

Candidate Starts for Jennelsea_48:

(2, 35227), (3, 35293), (Start: 6 @35620 has 4 MA's), (10, 35635), (13, 35689), (Start: 14 @35719 has 89 MA's), (17, 35737), (19, 35746), (20, 35770), (22, 35791), (26, 35845), (27, 35851), (28, 35854), (37, 35926), (39, 35932), (40, 35944),

Gene: Juice456_52 Start: 37930, Stop: 38190, Start Num: 14

Candidate Starts for Juice456_52:

(Start: 14 @37930 has 89 MA's), (17, 37948), (19, 37957), (20, 37981), (22, 38002), (26, 38056), (27, 38062), (28, 38065), (37, 38137), (39, 38143), (40, 38155), (42, 38179),

Gene: Juniper1_48 Start: 36146, Stop: 36406, Start Num: 14

Candidate Starts for Juniper1_48:

(Start: 14 @36146 has 89 MA's), (16, 36155), (20, 36197), (22, 36218), (25, 36260), (26, 36272), (27, 36278), (28, 36281), (33, 36335), (34, 36344), (37, 36353), (39, 36359), (40, 36371), (42, 36395),

Gene: Kenuha5_48 Start: 35550, Stop: 35903, Start Num: 8

Candidate Starts for Kenuha5_48:

(Start: 8 @35550 has 1 MA's), (Start: 14 @35643 has 89 MA's), (17, 35661), (19, 35670), (20, 35694), (22, 35715), (26, 35769), (27, 35775), (28, 35778), (37, 35850), (39, 35856), (40, 35868),

Gene: KingJulian_49 Start: 35745, Stop: 36005, Start Num: 14

Candidate Starts for KingJulian_49:

(Start: 14 @35745 has 89 MA's), (17, 35763), (19, 35772), (20, 35796), (22, 35817), (26, 35871), (27, 35877), (28, 35880), (34, 35943), (37, 35952), (39, 35958), (40, 35970), (42, 35994),

Gene: Kingsley_47 Start: 35728, Stop: 35988, Start Num: 14

Candidate Starts for Kingsley_47:

(Start: 14 @35728 has 89 MA's), (17, 35746), (19, 35755), (20, 35779), (22, 35800), (26, 35854), (27, 35860), (28, 35863), (32, 35908), (34, 35926), (37, 35935), (39, 35941), (40, 35953),

Gene: KristaRAM_49 Start: 37743, Stop: 38003, Start Num: 14

Candidate Starts for KristaRAM_49:

(Start: 14 @37743 has 89 MA's), (17, 37761), (19, 37770), (20, 37794), (22, 37815), (26, 37869), (27, 37875), (28, 37878), (37, 37950), (39, 37956), (40, 37968),

Gene: LastJedi_46 Start: 34457, Stop: 34726, Start Num: 14

Candidate Starts for LastJedi_46:

(Start: 14 @34457 has 89 MA's), (17, 34475), (19, 34484), (20, 34508), (22, 34529), (25, 34571), (26, 34583), (27, 34589), (28, 34592), (32, 34637), (34, 34655), (37, 34673), (39, 34679), (40, 34691),

Gene: LilSpotty_48 Start: 34139, Stop: 34411, Start Num: 15

Candidate Starts for LilSpotty_48:

(12, 34112), (Start: 15 @34139 has 2 MA's), (20, 34193), (22, 34214), (24, 34241), (28, 34274), (34, 34340),

Gene: LordVader_46 Start: 31275, Stop: 31670, Start Num: 4

Candidate Starts for LordVader_46:

(4, 31275), (7, 31308), (9, 31311), (12, 31371), (Start: 15 @31398 has 2 MA's), (20, 31452), (22, 31473), (24, 31500), (28, 31533), (34, 31599),

Gene: Lorde_51 Start: 35121, Stop: 35384, Start Num: 14

Candidate Starts for Lorde_51:

(Start: 14 @35121 has 89 MA's), (17, 35139), (19, 35148), (20, 35172), (22, 35193), (26, 35247), (27, 35253), (28, 35256), (34, 35319), (37, 35328), (39, 35334), (40, 35346), (42, 35370),

Gene: LunaBlu_54 Start: 37830, Stop: 38090, Start Num: 14

Candidate Starts for LunaBlu_54:

(Start: 14 @37830 has 89 MA's), (17, 37848), (19, 37857), (20, 37881), (22, 37902), (26, 37956), (27, 37962), (28, 37965), (37, 38037), (39, 38043), (40, 38055),

Gene: LunaStella_48 Start: 35282, Stop: 35557, Start Num: 14

Candidate Starts for LunaStella_48:

(Start: 14 @35282 has 89 MA's), (20, 35333), (22, 35354), (25, 35396), (26, 35408), (27, 35414), (28, 35417), (35, 35495), (37, 35504), (39, 35510), (40, 35522),

Gene: Mandlovu_47 Start: 35054, Stop: 35314, Start Num: 14

Candidate Starts for Mandlovu_47:

(Start: 14 @35054 has 89 MA's), (17, 35072), (19, 35081), (20, 35105), (22, 35126), (26, 35180), (27, 35186), (28, 35189), (37, 35261), (39, 35267), (40, 35279),

Gene: Mattes_54 Start: 38190, Stop: 38549, Start Num: 6

Candidate Starts for Mattes_54:

(1, 37626), (2, 37797), (3, 37863), (Start: 6 @38190 has 4 MA's), (10, 38205), (13, 38259), (Start: 14 @38289 has 89 MA's), (17, 38307), (19, 38316), (20, 38340), (22, 38361), (26, 38415), (27, 38421), (28, 38424), (37, 38496), (39, 38502), (40, 38514),

Gene: Medindi_48 Start: 34833, Stop: 35093, Start Num: 14

Candidate Starts for Medindi_48:

(Start: 14 @34833 has 89 MA's), (17, 34851), (19, 34860), (20, 34884), (22, 34905), (26, 34959), (27, 34965), (28, 34968), (37, 35040), (39, 35046), (40, 35058), (42, 35082),

Gene: Melissauren88_48 Start: 35898, Stop: 36161, Start Num: 14

Candidate Starts for Melissauren88_48:

(Start: 14 @35898 has 89 MA's), (17, 35916), (19, 35925), (20, 35949), (22, 35970), (26, 36024), (27, 36030), (28, 36033), (34, 36096), (37, 36105), (39, 36111), (40, 36123), (42, 36147),

Gene: MilanaBonita_42 Start: 32431, Stop: 32691, Start Num: 14

Candidate Starts for MilanaBonita_42:

(Start: 14 @32431 has 89 MA's), (17, 32449), (19, 32458), (20, 32482), (22, 32503), (26, 32557), (27, 32563), (28, 32566), (34, 32629), (37, 32638), (39, 32644), (40, 32656), (42, 32680),

Gene: MilleniumForce_50 Start: 37892, Stop: 38152, Start Num: 14

Candidate Starts for MilleniumForce_50:

(Start: 14 @37892 has 89 MA's), (17, 37910), (19, 37919), (20, 37943), (22, 37964), (26, 38018), (27, 38024), (28, 38027), (37, 38099), (39, 38105), (40, 38117), (42, 38141),

Gene: MinionDave_49 Start: 36435, Stop: 36698, Start Num: 14

Candidate Starts for MinionDave_49:

(Start: 14 @36435 has 89 MA's), (17, 36453), (19, 36462), (20, 36486), (22, 36507), (26, 36561), (27, 36567), (28, 36570), (37, 36642), (39, 36648), (40, 36660), (42, 36684),

Gene: Minnie_55 Start: 38774, Stop: 39034, Start Num: 14

Candidate Starts for Minnie_55:

(Start: 14 @38774 has 89 MA's), (17, 38792), (19, 38801), (20, 38825), (22, 38846), (26, 38900), (27, 38906), (28, 38909), (32, 38954), (34, 38972), (37, 38981), (39, 38987), (40, 38999),

Gene: MooMoo_46 Start: 35558, Stop: 35833, Start Num: 14

Candidate Starts for MooMoo_46:

(Start: 14 @35558 has 89 MA's), (20, 35609), (22, 35630), (25, 35672), (26, 35684), (27, 35690), (28, 35693), (35, 35771), (37, 35780), (39, 35786), (40, 35798),

Gene: Moonbeam_46 Start: 35928, Stop: 36188, Start Num: 14

Candidate Starts for Moonbeam_46:

(Start: 14 @35928 has 89 MA's), (17, 35946), (19, 35955), (20, 35979), (22, 36000), (26, 36054), (27, 36060), (28, 36063), (37, 36135), (39, 36141), (40, 36153), (42, 36177),

Gene: Mova_50 Start: 35691, Stop: 35951, Start Num: 14

Candidate Starts for Mova_50:

(Start: 14 @35691 has 89 MA's), (17, 35709), (19, 35718), (20, 35742), (22, 35763), (26, 35817), (27, 35823), (28, 35826), (37, 35898), (39, 35904), (40, 35916), (42, 35940),

Gene: Mozy_60 Start: 39450, Stop: 39764, Start Num: 11

Candidate Starts for Mozy_60:

(Start: 11 @39450 has 1 MA's), (Start: 14 @39504 has 89 MA's), (17, 39522), (19, 39531), (20, 39555), (22, 39576), (25, 39618), (26, 39630), (27, 39636), (28, 39639), (34, 39702), (37, 39711), (39, 39717), (40, 39729), (42, 39753),

Gene: Ms6_43 Start: 30964, Stop: 31230, Start Num: 14

Candidate Starts for Ms6_43:

(Start: 14 @30964 has 89 MA's), (17, 30982), (19, 30991), (20, 31015), (22, 31036), (26, 31090), (27, 31096), (28, 31099), (32, 31144), (34, 31162), (37, 31177), (39, 31183), (40, 31195), (42, 31219),

Gene: Mutaforma13_53 Start: 38482, Stop: 38742, Start Num: 14

Candidate Starts for Mutaforma13_53:

(Start: 14 @38482 has 89 MA's), (17, 38500), (19, 38509), (20, 38533), (22, 38554), (26, 38608), (27, 38614), (28, 38617), (37, 38689), (39, 38695), (40, 38707), (42, 38731),

Gene: NewHope4_53 Start: 37201, Stop: 37461, Start Num: 14

Candidate Starts for NewHope4_53:

(Start: 14 @37201 has 89 MA's), (17, 37219), (19, 37228), (20, 37252), (22, 37273), (26, 37327), (27, 37333), (28, 37336), (37, 37408), (39, 37414), (40, 37426),

Gene: Ovechkin_47 Start: 36285, Stop: 36545, Start Num: 14

Candidate Starts for Ovechkin_47:

(Start: 14 @36285 has 89 MA's), (17, 36303), (19, 36312), (20, 36336), (22, 36357), (26, 36411), (27, 36417), (28, 36420), (37, 36492), (39, 36498), (40, 36510), (42, 36534),

Gene: PatoPoderoso_47 Start: 35745, Stop: 36005, Start Num: 14

Candidate Starts for PatoPoderoso_47:

(Start: 14 @35745 has 89 MA's), (17, 35763), (19, 35772), (20, 35796), (22, 35817), (26, 35871), (27, 35877), (28, 35880), (34, 35943), (37, 35952), (39, 35958), (40, 35970), (42, 35994),

Gene: Phalconet_49 Start: 36205, Stop: 36465, Start Num: 14

Candidate Starts for Phalconet_49:

(Start: 14 @36205 has 89 MA's), (17, 36223), (19, 36232), (20, 36256), (22, 36277), (26, 36331), (27, 36337), (28, 36340), (34, 36403), (37, 36412), (39, 36418), (40, 36430), (42, 36454),

Gene: Phanphagia_45 Start: 36033, Stop: 36293, Start Num: 14

Candidate Starts for Phanphagia_45:

(Start: 14 @36033 has 89 MA's), (16, 36042), (20, 36084), (22, 36105), (26, 36159), (27, 36165), (28, 36168), (37, 36240), (39, 36246), (40, 36258),

Gene: PhesterPhotato_52 Start: 37160, Stop: 37420, Start Num: 14

Candidate Starts for PhesterPhotato_52:

(Start: 14 @37160 has 89 MA's), (17, 37178), (19, 37187), (20, 37211), (22, 37232), (26, 37286), (27, 37292), (28, 37295), (34, 37358), (37, 37367), (39, 37373), (40, 37385), (42, 37409),

Gene: Philus_54 Start: 38175, Stop: 38435, Start Num: 14

Candidate Starts for Philus_54:

(Start: 14 @38175 has 89 MA's), (17, 38193), (19, 38202), (20, 38226), (22, 38247), (26, 38301), (27, 38307), (28, 38310), (37, 38382), (39, 38388), (40, 38400),

Gene: Pippy_50 Start: 36021, Stop: 36290, Start Num: 14

Candidate Starts for Pippy_50:

(Start: 14 @36021 has 89 MA's), (17, 36039), (19, 36048), (20, 36072), (22, 36093), (25, 36135), (26, 36147), (27, 36153), (28, 36156), (32, 36201), (34, 36219), (37, 36237), (39, 36243), (40, 36255),

Gene: Polo2Bam_57 Start: 37055, Stop: 37315, Start Num: 14

Candidate Starts for Polo2Bam_57:

(Start: 14 @37055 has 89 MA's), (17, 37073), (19, 37082), (20, 37106), (22, 37127), (26, 37181), (27, 37187), (28, 37190), (37, 37262), (39, 37268), (40, 37280),

Gene: Renaud18_55 Start: 37223, Stop: 37507, Start Num: 14

Candidate Starts for Renaud18_55:

(Start: 14 @37223 has 89 MA's), (18, 37244), (21, 37304), (23, 37322), (28, 37373), (29, 37400), (30, 37406), (31, 37409), (36, 37448), (41, 37484),

Gene: Rialto_55 Start: 39407, Stop: 39676, Start Num: 14

Candidate Starts for Rialto_55:

(Start: 14 @39407 has 89 MA's), (17, 39425), (19, 39434), (20, 39458), (22, 39479), (25, 39521), (26, 39533), (27, 39539), (28, 39542), (32, 39587), (34, 39605), (37, 39623), (39, 39629), (40, 39641),

Gene: Rita_52 Start: 36039, Stop: 36299, Start Num: 14

Candidate Starts for Rita_52:

(Start: 14 @36039 has 89 MA's), (16, 36048), (20, 36090), (22, 36111), (25, 36153), (26, 36165), (27, 36171), (28, 36174), (34, 36237), (37, 36246), (39, 36252), (40, 36264), (42, 36288),

Gene: SG4_47 Start: 35631, Stop: 35894, Start Num: 14

Candidate Starts for SG4_47:

(Start: 14 @35631 has 89 MA's), (17, 35649), (19, 35658), (20, 35682), (22, 35703), (26, 35757), (27, 35763), (28, 35766), (34, 35829), (37, 35838), (39, 35844), (40, 35856), (42, 35880),

Gene: Saal_53 Start: 38145, Stop: 38408, Start Num: 14

Candidate Starts for Saal_53:

(Start: 14 @38145 has 89 MA's), (17, 38163), (19, 38172), (20, 38196), (22, 38217), (26, 38271), (27, 38277), (28, 38280), (34, 38343), (37, 38352), (39, 38358), (40, 38370), (42, 38394),

Gene: Sarma624_48 Start: 32920, Stop: 33180, Start Num: 14

Candidate Starts for Sarma624_48:

(Start: 14 @32920 has 89 MA's), (17, 32938), (19, 32947), (20, 32971), (22, 32992), (26, 33046), (27, 33052), (28, 33055), (32, 33100), (34, 33118), (37, 33127), (39, 33133), (40, 33145),

Gene: Shauna1_45 Start: 36023, Stop: 36283, Start Num: 14

Candidate Starts for Shauna1_45:

(Start: 14 @36023 has 89 MA's), (16, 36032), (20, 36074), (22, 36095), (26, 36149), (27, 36155), (28, 36158), (37, 36230), (39, 36236), (40, 36248),

Gene: ShroomBoi_50 Start: 36513, Stop: 36773, Start Num: 14

Candidate Starts for ShroomBoi_50:

(Start: 14 @36513 has 89 MA's), (17, 36531), (19, 36540), (20, 36564), (22, 36585), (26, 36639), (27, 36645), (28, 36648), (37, 36720), (39, 36726), (40, 36738),

Gene: SilverChicken_58 Start: 36158, Stop: 36418, Start Num: 14

Candidate Starts for SilverChicken_58:

(13, 36131), (Start: 14 @36158 has 89 MA's), (17, 36176), (19, 36185), (20, 36209), (22, 36230), (26, 36284), (27, 36290), (28, 36293), (34, 36356), (37, 36365), (39, 36371), (40, 36383), (42, 36407),

Gene: SimranZ1_49 Start: 35859, Stop: 36119, Start Num: 14

Candidate Starts for SimranZ1_49:

(Start: 14 @35859 has 89 MA's), (16, 35868), (20, 35910), (22, 35931), (25, 35973), (26, 35985), (27, 35991), (28, 35994), (33, 36048), (34, 36057), (37, 36066), (39, 36072), (40, 36084), (42, 36108),

Gene: Soul22_54 Start: 36760, Stop: 37020, Start Num: 14

Candidate Starts for Soul22_54:

(Start: 14 @36760 has 89 MA's), (17, 36778), (19, 36787), (20, 36811), (22, 36832), (26, 36886), (27, 36892), (28, 36895), (37, 36967), (39, 36973), (40, 36985), (42, 37009),

Gene: Spartacus_52 Start: 37005, Stop: 37265, Start Num: 14

Candidate Starts for Spartacus_52:

(Start: 14 @37005 has 89 MA's), (17, 37023), (19, 37032), (20, 37056), (22, 37077), (26, 37131), (27, 37137), (28, 37140), (32, 37185), (34, 37203), (37, 37212), (39, 37218), (40, 37230),

Gene: Squirty_44 Start: 33796, Stop: 34068, Start Num: 15

Candidate Starts for Squirty_44:

(12, 33769), (Start: 15 @33796 has 2 MA's), (20, 33850), (22, 33871), (24, 33898), (28, 33931), (34, 33997),

Gene: StAnnes_49 Start: 36877, Stop: 37140, Start Num: 14

Candidate Starts for StAnnes_49:

(Start: 14 @36877 has 89 MA's), (17, 36895), (19, 36904), (20, 36928), (22, 36949), (26, 37003), (27, 37009), (28, 37012), (34, 37075), (37, 37084), (39, 37090), (40, 37102), (42, 37126),

Gene: Strokeseat_47 Start: 35111, Stop: 35371, Start Num: 14

Candidate Starts for Strokeseat_47:

(Start: 14 @35111 has 89 MA's), (17, 35129), (19, 35138), (20, 35162), (22, 35183), (26, 35237), (27, 35243), (28, 35246), (37, 35318), (39, 35324), (40, 35336),

Gene: SuperGrey_50 Start: 37482, Stop: 37742, Start Num: 14

Candidate Starts for SuperGrey_50:

(Start: 14 @37482 has 89 MA's), (17, 37500), (19, 37509), (20, 37533), (22, 37554), (26, 37608), (27, 37614), (28, 37617), (37, 37689), (39, 37695), (40, 37707),

Gene: SwagPiggett_56 Start: 39180, Stop: 39440, Start Num: 14

Candidate Starts for SwagPiggett_56:

(1, 38517), (2, 38688), (3, 38754), (Start: 6 @39081 has 4 MA's), (10, 39096), (13, 39150), (Start: 14 @39180 has 89 MA's), (17, 39198), (19, 39207), (20, 39231), (22, 39252), (26, 39306), (27, 39312), (28, 39315), (37, 39387), (39, 39393), (40, 39405),

Gene: TChen_50 Start: 37233, Stop: 37508, Start Num: 14

Candidate Starts for TChen_50:

(Start: 14 @37233 has 89 MA's), (20, 37284), (22, 37305), (25, 37347), (26, 37359), (27, 37365), (28, 37368), (35, 37446), (37, 37455), (39, 37461), (40, 37473),

Gene: Taj_53 Start: 37144, Stop: 37428, Start Num: 14

Candidate Starts for Taj_53:

(Start: 14 @37144 has 89 MA's), (18, 37165), (21, 37225), (23, 37243), (28, 37294), (29, 37321), (30, 37327), (31, 37330), (36, 37369), (41, 37405),

Gene: VRedHorse_50 Start: 36119, Stop: 36382, Start Num: 14

Candidate Starts for VRedHorse_50:

(Start: 14 @36119 has 89 MA's), (17, 36137), (19, 36146), (20, 36170), (22, 36191), (26, 36245), (27, 36251), (28, 36254), (37, 36326), (39, 36332), (40, 36344), (42, 36368),

Gene: Velveteen_45 Start: 32920, Stop: 33180, Start Num: 14

Candidate Starts for Velveteen_45:

(Start: 14 @32920 has 89 MA's), (17, 32938), (19, 32947), (20, 32971), (22, 32992), (26, 33046), (27, 33052), (28, 33055), (32, 33100), (34, 33118), (37, 33127), (39, 33133), (40, 33145),

Gene: Violac_53 Start: 38220, Stop: 38480, Start Num: 14

Candidate Starts for Violac_53:

(Start: 14 @38220 has 89 MA's), (17, 38238), (19, 38247), (20, 38271), (22, 38292), (26, 38346), (27, 38352), (28, 38355), (32, 38400), (34, 38418), (37, 38427), (39, 38433), (40, 38445),

Gene: Wachhund_52 Start: 36526, Stop: 36786, Start Num: 14

Candidate Starts for Wachhund_52:

(Start: 14 @36526 has 89 MA's), (17, 36544), (19, 36553), (20, 36577), (22, 36598), (26, 36652), (27, 36658), (28, 36661), (37, 36733), (39, 36739), (40, 36751),

Gene: Wee_52 Start: 37416, Stop: 37700, Start Num: 14

Candidate Starts for Wee_52:

(Start: 14 @37416 has 89 MA's), (18, 37437), (21, 37497), (23, 37515), (28, 37566), (29, 37593), (30, 37599), (31, 37602), (36, 37641), (41, 37677),

Gene: Whatsapiecost_49 Start: 35788, Stop: 36048, Start Num: 14

Candidate Starts for Whatsapiecost_49:

(Start: 14 @35788 has 89 MA's), (17, 35806), (19, 35815), (20, 35839), (22, 35860), (26, 35914), (27, 35920), (28, 35923), (37, 35995), (39, 36001), (40, 36013), (42, 36037),

Gene: WillSterrel_51 Start: 38121, Stop: 38381, Start Num: 14

Candidate Starts for WillSterrel_51:

(Start: 14 @38121 has 89 MA's), (17, 38139), (19, 38148), (20, 38172), (22, 38193), (26, 38247), (27, 38253), (28, 38256), (32, 38301), (34, 38319), (37, 38328), (39, 38334), (40, 38346),

Gene: XFactor_48 Start: 35606, Stop: 35869, Start Num: 14

Candidate Starts for XFactor_48:

(Start: 14 @35606 has 89 MA's), (17, 35624), (19, 35633), (20, 35657), (22, 35678), (26, 35732), (27, 35738), (28, 35741), (34, 35804), (37, 35813), (39, 35819), (40, 35831), (42, 35855),

Gene: Zizzle_56 Start: 38765, Stop: 39124, Start Num: 6

Candidate Starts for Zizzle_56:

(1, 38201), (2, 38372), (3, 38438), (Start: 6 @38765 has 4 MA's), (10, 38780), (13, 38834), (Start: 14 @38864 has 89 MA's), (17, 38882), (19, 38891), (20, 38915), (22, 38936), (26, 38990), (27, 38996), (28, 38999), (37, 39071), (39, 39077), (40, 39089),