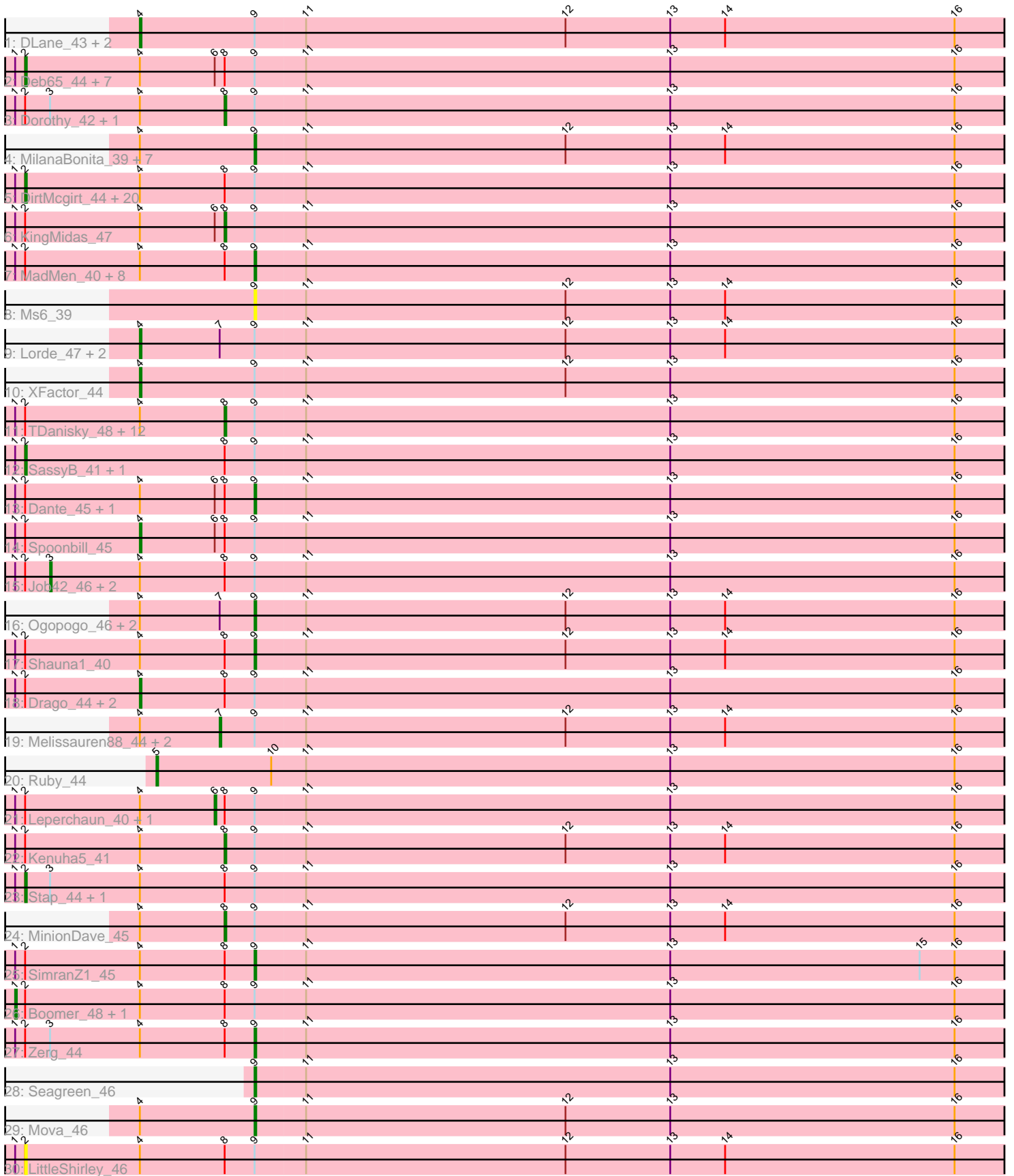


Pham 163487



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 163487 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163487 has 102 members, 10 are drafts.

Phages represented in each track:

- Track 1 : DLane_43, Cornucopia_49, Guppsters_47
- Track 2 : Deb65_44, Nimbo_42, JoeyJr_43, PHappiness_43, Inventum_42, Geralt_43, Polka14_44, Pacc40_42
- Track 3 : Dorothy_42, Doomphist_45
- Track 4 : MilanaBonita_39, StAnnes_45, Akhila_39, LunaBlu_48, Galactic_45, KristaRAM_45, Flathead_46, Ovechkin_43
- Track 5 : DirtMcgirt_44, Martik_46, Jarcob_46, Llij_42, Lizziana_52, Koella_40, ShowerHandel_47, Nitzel_41, Ibhubesi_46, LilMoolah_44, Latretium_48, Priscilla_46, Eradicator_37, Nivrat_44, ArcusAngelus_49, BodEinwohner17_44, Yorick_43, Sparkdehlily_48, Crumble_40, Marker_49, Cabrinians_47
- Track 6 : KingMidas_47
- Track 7 : MadMen_40, Leozinho_45, NormanBulbieJr_47, Chevrolet_54, Mozy_54, FreddyB_46, ShiLan_46, Seabastian_47, Eish_46
- Track 8 : Ms6_39
- Track 9 : Lorde_47, Batiatus_45, PhesterPhotato_48
- Track 10 : XFactor_44
- Track 11 : TDanisky_48, Chuckly_45, Estave1_46, Modragons_46, Blarby_56, Llama_47, Tootsieroll_47, Krakatau_43, OfUltron_47, Taj_47, OlympiaSaint_45, Burwell21_45, Phatniss_43
- Track 12 : SassyB_41, PopTart_41
- Track 13 : Dante_45, Scottish_46
- Track 14 : Spoonbill_45
- Track 15 : Job42_46, Blexus_43, RockyHorror_46
- Track 16 : Ogopogo_46, SG4_44, Enby_47
- Track 17 : Shauna1_40
- Track 18 : Drago_44, Rockne_43, PMC_40
- Track 19 : Melissauren88_44, Phalconet_44, VRedHorse_46
- Track 20 : Ruby_44
- Track 21 : Leperchaun_40, RitaG_43
- Track 22 : Kenuha5_41
- Track 23 : Stap_44, Phasih_43
- Track 24 : MinionDave_45
- Track 25 : SimranZ1_45
- Track 26 : Boomer_48, Plumbus_45
- Track 27 : Zerg_44
- Track 28 : Seagreen_46
- Track 29 : Mova_46

- Track 30 : LittleShirley_46

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

The start number called the most often in the published annotations is 2, it was called in 29 of the 92 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArcusAngelus_49, BodEinwohner17_44, Cabrinians_47, Crumble_40, Deb65_44, DirtMcgirt_44, Eradicator_37, Geralt_43, Ibhubesi_46, Inventum_42, Jarcob_46, JoeyJr_43, Koella_40, Latretium_48, LilMoolah_44, LittleShirley_46, Lizziana_52, Llij_42, Marker_49, Martik_46, Nimbo_42, Nitzel_41, Nivrat_44, PHappiness_43, Pacc40_42, Phasih_43, Polka14_44, PopTart_41, Priscilla_46, SassyB_41, ShowerHandel_47, Sparkdehlily_48, Stap_44, Yorick_43,

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

- Blarby_56, Blexus_43, Boomer_48, Burwell21_45, Chevrolet_54, Chuckly_45, Dante_45, Doomphist_45, Dorothy_42, Drago_44, Eish_46, Estave1_46, FreddyB_46, Job42_46, Kenuha5_41, KingMidas_47, Krakatau_43, Leozinho_45, Leperchaun_40, Llama_47, MadMen_40, Modragons_46, Mozy_54, NormanBulbieJr_47, OfUltron_47, OlympiaSaint_45, PMC_40, Phatniss_43, Plumbus_45, RitaG_43, Rockne_43, RockyHorror_46, Scottish_46, Seabastian_47, Shauna1_40, ShiLan_46, SimranZ1_45, Spoonbill_45, TDanisky_48, Taj_47, Tootsieroll_47, Zerg_44,

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

- Akhila_39, Batiatus_45, Cornucopia_49, DLane_43, Enby_47, Flathead_46, Galactic_45, Guppsters_47, KristaRAM_45, Lorde_47, LunaBlu_48, Melissauren88_44, MilanaBonita_39, MinionDave_45, Mova_46, Ms6_39, Ogopogo_46, Ovechkin_43, Phalconet_44, PhesterPotato_48, Ruby_44, SG4_44, Seagreen_46, StAnnes_45, VRedHorse_46, XFactor_44,

Summary by start number:

Start 1:

- Found in 76 of 102 (74.5%) of genes in pham
- Manual Annotations of this start: 2 of 92
- Called 2.6% of time when present
- Phage (with cluster) where this start called: Boomer_48 (F1), Plumbus_45 (F1),

Start 2:

- Found in 76 of 102 (74.5%) of genes in pham
- Manual Annotations of this start: 29 of 92
- Called 44.7% of time when present
- Phage (with cluster) where this start called: ArcusAngelus_49 (F1), BodEinwohner17_44 (F1), Cabrinians_47 (F1), Crumble_40 (F1), Deb65_44 (F1), DirtMcgirt_44 (F1), Eradicator_37 (F1), Geralt_43 (F1), Ibhubesi_46 (F1), Inventum_42 (F1), Jarcob_46 (F1), JoeyJr_43 (F1), Koella_40 (F1), Latretium_48 (F1), LilMoolah_44 (F1), LittleShirley_46 (F1), Lizziana_52 (F1), Llij_42 (F1), Marker_49 (F1), Martik_46 (F1), Nimbo_42 (F1), Nitzel_41 (F1), Nivrat_44 (F1),

PHappiness_43 (F1), Pacc40_42 (F1), Phasih_43 (F1), Polka14_44 (F1), PopTart_41 (F1), Priscilla_46 (F1), SassyB_41 (F1), ShowerHandel_47 (F1), Sparkdehlily_48 (F1), Stap_44 (F1), Yorick_43 (F1),

Start 3:

- Found in 8 of 102 (7.8%) of genes in pham
- Manual Annotations of this start: 3 of 92
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Blexus_43 (F1), Job42_46 (F1), RockyHorror_46 (F1),

Start 4:

- Found in 97 of 102 (95.1%) of genes in pham
- Manual Annotations of this start: 9 of 92
- Called 11.3% of time when present
- Phage (with cluster) where this start called: Batiatus_45 (F1), Cornucopia_49 (F1), DLane_43 (F1), Drago_44 (F1), Guppsters_47 (F1), Lorde_47 (F1), PMC_40 (F1), PhesterPhotato_48 (F1), Rockne_43 (F1), Spoonbill_45 (F1), XFactor_44 (F1),

Start 5:

- Found in 1 of 102 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 92
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ruby_44 (F1),

Start 6:

- Found in 14 of 102 (13.7%) of genes in pham
- Manual Annotations of this start: 2 of 92
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Leperchaun_40 (F1), RitaG_43 (F1),

Start 7:

- Found in 9 of 102 (8.8%) of genes in pham
- Manual Annotations of this start: 3 of 92
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Melissauren88_44 (F1), Phalconet_44 (F1), VRedHorse_46 (F1),

Start 8:

- Found in 77 of 102 (75.5%) of genes in pham
- Manual Annotations of this start: 17 of 92
- Called 23.4% of time when present
- Phage (with cluster) where this start called: Blarby_56 (F), Burwell21_45 (F1), Chuckly_45 (F1), Doomphist_45 (F1), Dorothy_42 (F1), Estave1_46 (F1), Kenuha5_41 (F1), KingMidas_47 (F1), Krakatau_43 (F1), Llama_47 (F1), MinionDave_45 (F1), Modragons_46 (F1), OfUltron_47 (F1), OlympiaSaint_45 (F1), Phatniss_43 (F1), TDanisky_48 (F1), Taj_47 (F1), Tootsieroll_47 (F1),

Start 9:

- Found in 101 of 102 (99.0%) of genes in pham
- Manual Annotations of this start: 26 of 92
- Called 27.7% of time when present

• Phage (with cluster) where this start called: Akhila_39 (F1), Chevrolet_54 (F1), Dante_45 (F1), Eish_46 (F1), Enby_47 (F1), Flathead_46 (F1), FreddyB_46 (F1), Galactic_45 (F1), KristaRAM_45 (F1), Leozinho_45 (F1), LunaBlu_48 (F1), MadMen_40 (F1), MilanaBonita_39 (F1), Mova_46 (F1), Mozy_54 (F1), Ms6_39 (F1), NormanBulbieJr_47 (F1), Ogopogo_46 (F1), Ovechkin_43 (F1), SG4_44 (F1), Scottish_46 (F1), Sebastian_47 (F1), Seagreen_46 (F1), Shauna1_40 (F1), ShiLan_46 (F1), SimranZ1_45 (F1), StAnnes_45 (F1), Zerg_44 (F1),

Summary by clusters:

There are 2 clusters represented in this pham: F1, F,

Info for manual annotations of cluster F1:

- Start number 1 was manually annotated 2 times for cluster F1.
- Start number 2 was manually annotated 29 times for cluster F1.
- Start number 3 was manually annotated 3 times for cluster F1.
- Start number 4 was manually annotated 9 times for cluster F1.
- Start number 5 was manually annotated 1 time for cluster F1.
- Start number 6 was manually annotated 2 times for cluster F1.
- Start number 7 was manually annotated 3 times for cluster F1.
- Start number 8 was manually annotated 17 times for cluster F1.
- Start number 9 was manually annotated 26 times for cluster F1.

Gene Information:

Gene: Akhila_39 Start: 31622, Stop: 31023, Start Num: 9

Candidate Starts for Akhila_39:

(Start: 4 @31691 has 9 MA's), (Start: 9 @31622 has 26 MA's), (11, 31592), (12, 31436), (13, 31373), (14, 31340), (16, 31202),

Gene: ArcusAngelus_49 Start: 37110, Stop: 36370, Start Num: 2

Candidate Starts for ArcusAngelus_49:

(Start: 1 @37116 has 2 MA's), (Start: 2 @37110 has 29 MA's), (Start: 4 @37041 has 9 MA's), (Start: 8 @36990 has 17 MA's), (Start: 9 @36972 has 26 MA's), (11, 36942), (13, 36723), (16, 36552),

Gene: Batiatus_45 Start: 35723, Stop: 35055, Start Num: 4

Candidate Starts for Batiatus_45:

(Start: 4 @35723 has 9 MA's), (Start: 7 @35675 has 3 MA's), (Start: 9 @35654 has 26 MA's), (11, 35624), (12, 35468), (13, 35405), (14, 35372), (16, 35234),

Gene: Blarby_56 Start: 35403, Stop: 34783, Start Num: 8

Candidate Starts for Blarby_56:

(Start: 1 @35529 has 2 MA's), (Start: 2 @35523 has 29 MA's), (Start: 4 @35454 has 9 MA's), (Start: 8 @35403 has 17 MA's), (Start: 9 @35385 has 26 MA's), (11, 35355), (13, 35136), (16, 34965),

Gene: Blexus_43 Start: 34826, Stop: 34104, Start Num: 3

Candidate Starts for Blexus_43:

(Start: 1 @34847 has 2 MA's), (Start: 2 @34841 has 29 MA's), (Start: 3 @34826 has 3 MA's), (Start: 4 @34772 has 9 MA's), (Start: 8 @34721 has 17 MA's), (Start: 9 @34703 has 26 MA's), (11, 34673), (13, 34454), (16, 34283),

Gene: BodEinwohner17_44 Start: 34783, Stop: 34043, Start Num: 2

Candidate Starts for BodEinwohner17_44:

(Start: 1 @34789 has 2 MA's), (Start: 2 @34783 has 29 MA's), (Start: 4 @34714 has 9 MA's), (Start: 8 @34663 has 17 MA's), (Start: 9 @34645 has 26 MA's), (11, 34615), (13, 34396), (16, 34225),

Gene: Boomer_48 Start: 36022, Stop: 35276, Start Num: 1

Candidate Starts for Boomer_48:

(Start: 1 @36022 has 2 MA's), (Start: 2 @36016 has 29 MA's), (Start: 4 @35947 has 9 MA's), (Start: 8 @35896 has 17 MA's), (Start: 9 @35878 has 26 MA's), (11, 35848), (13, 35629), (16, 35458),

Gene: Burwell21_45 Start: 35928, Stop: 35308, Start Num: 8

Candidate Starts for Burwell21_45:

(Start: 1 @36054 has 2 MA's), (Start: 2 @36048 has 29 MA's), (Start: 4 @35979 has 9 MA's), (Start: 8 @35928 has 17 MA's), (Start: 9 @35910 has 26 MA's), (11, 35880), (13, 35661), (16, 35490),

Gene: Cabrinians_47 Start: 36126, Stop: 35386, Start Num: 2

Candidate Starts for Cabrinians_47:

(Start: 1 @36132 has 2 MA's), (Start: 2 @36126 has 29 MA's), (Start: 4 @36057 has 9 MA's), (Start: 8 @36006 has 17 MA's), (Start: 9 @35988 has 26 MA's), (11, 35958), (13, 35739), (16, 35568),

Gene: Chevrolet_54 Start: 36973, Stop: 36371, Start Num: 9

Candidate Starts for Chevrolet_54:

(Start: 1 @37117 has 2 MA's), (Start: 2 @37111 has 29 MA's), (Start: 4 @37042 has 9 MA's), (Start: 8 @36991 has 17 MA's), (Start: 9 @36973 has 26 MA's), (11, 36943), (13, 36724), (16, 36553),

Gene: Chuckly_45 Start: 34691, Stop: 34071, Start Num: 8

Candidate Starts for Chuckly_45:

(Start: 1 @34817 has 2 MA's), (Start: 2 @34811 has 29 MA's), (Start: 4 @34742 has 9 MA's), (Start: 8 @34691 has 17 MA's), (Start: 9 @34673 has 26 MA's), (11, 34643), (13, 34424), (16, 34253),

Gene: Cornucopia_49 Start: 36045, Stop: 35377, Start Num: 4

Candidate Starts for Cornucopia_49:

(Start: 4 @36045 has 9 MA's), (Start: 9 @35976 has 26 MA's), (11, 35946), (12, 35790), (13, 35727), (14, 35694), (16, 35556),

Gene: Crumble_40 Start: 32062, Stop: 31322, Start Num: 2

Candidate Starts for Crumble_40:

(Start: 1 @32068 has 2 MA's), (Start: 2 @32062 has 29 MA's), (Start: 4 @31993 has 9 MA's), (Start: 8 @31942 has 17 MA's), (Start: 9 @31924 has 26 MA's), (11, 31894), (13, 31675), (16, 31504),

Gene: DLane_43 Start: 34828, Stop: 34160, Start Num: 4

Candidate Starts for DLane_43:

(Start: 4 @34828 has 9 MA's), (Start: 9 @34759 has 26 MA's), (11, 34729), (12, 34573), (13, 34510), (14, 34477), (16, 34339),

Gene: Dante_45 Start: 34409, Stop: 33807, Start Num: 9

Candidate Starts for Dante_45:

(Start: 1 @34553 has 2 MA's), (Start: 2 @34547 has 29 MA's), (Start: 4 @34478 has 9 MA's), (Start: 6 @34433 has 2 MA's), (Start: 8 @34427 has 17 MA's), (Start: 9 @34409 has 26 MA's), (11, 34379), (13, 34160), (16, 33989),

Gene: Deb65_44 Start: 34402, Stop: 33662, Start Num: 2

Candidate Starts for Deb65_44:

(Start: 1 @34408 has 2 MA's), (Start: 2 @34402 has 29 MA's), (Start: 4 @34333 has 9 MA's), (Start: 6 @34288 has 2 MA's), (Start: 8 @34282 has 17 MA's), (Start: 9 @34264 has 26 MA's), (11, 34234), (13, 34015), (16, 33844),

Gene: DirtMcgirt_44 Start: 34084, Stop: 33344, Start Num: 2

Candidate Starts for DirtMcgirt_44:

(Start: 1 @34090 has 2 MA's), (Start: 2 @34084 has 29 MA's), (Start: 4 @34015 has 9 MA's), (Start: 8 @33964 has 17 MA's), (Start: 9 @33946 has 26 MA's), (11, 33916), (13, 33697), (16, 33526),

Gene: Doomphist_45 Start: 35661, Stop: 35041, Start Num: 8

Candidate Starts for Doomphist_45:

(Start: 1 @35787 has 2 MA's), (Start: 2 @35781 has 29 MA's), (Start: 3 @35766 has 3 MA's), (Start: 4 @35712 has 9 MA's), (Start: 8 @35661 has 17 MA's), (Start: 9 @35643 has 26 MA's), (11, 35613), (13, 35394), (16, 35223),

Gene: Dorothy_42 Start: 34460, Stop: 33840, Start Num: 8

Candidate Starts for Dorothy_42:

(Start: 1 @34586 has 2 MA's), (Start: 2 @34580 has 29 MA's), (Start: 3 @34565 has 3 MA's), (Start: 4 @34511 has 9 MA's), (Start: 8 @34460 has 17 MA's), (Start: 9 @34442 has 26 MA's), (11, 34412), (13, 34193), (16, 34022),

Gene: Drago_44 Start: 34018, Stop: 33347, Start Num: 4

Candidate Starts for Drago_44:

(Start: 1 @34093 has 2 MA's), (Start: 2 @34087 has 29 MA's), (Start: 4 @34018 has 9 MA's), (Start: 8 @33967 has 17 MA's), (Start: 9 @33949 has 26 MA's), (11, 33919), (13, 33700), (16, 33529),

Gene: Eish_46 Start: 34990, Stop: 34388, Start Num: 9

Candidate Starts for Eish_46:

(Start: 1 @35134 has 2 MA's), (Start: 2 @35128 has 29 MA's), (Start: 4 @35059 has 9 MA's), (Start: 8 @35008 has 17 MA's), (Start: 9 @34990 has 26 MA's), (11, 34960), (13, 34741), (16, 34570),

Gene: Enby_47 Start: 34342, Stop: 33743, Start Num: 9

Candidate Starts for Enby_47:

(Start: 4 @34411 has 9 MA's), (Start: 7 @34363 has 3 MA's), (Start: 9 @34342 has 26 MA's), (11, 34312), (12, 34156), (13, 34093), (14, 34060), (16, 33922),

Gene: Eradicator_37 Start: 32723, Stop: 31983, Start Num: 2

Candidate Starts for Eradicator_37:

(Start: 1 @32729 has 2 MA's), (Start: 2 @32723 has 29 MA's), (Start: 4 @32654 has 9 MA's), (Start: 8 @32603 has 17 MA's), (Start: 9 @32585 has 26 MA's), (11, 32555), (13, 32336), (16, 32165),

Gene: Estave1_46 Start: 34410, Stop: 33790, Start Num: 8

Candidate Starts for Estave1_46:

(Start: 1 @34536 has 2 MA's), (Start: 2 @34530 has 29 MA's), (Start: 4 @34461 has 9 MA's), (Start: 8 @34410 has 17 MA's), (Start: 9 @34392 has 26 MA's), (11, 34362), (13, 34143), (16, 33972),

Gene: Flathead_46 Start: 36098, Stop: 35499, Start Num: 9

Candidate Starts for Flathead_46:

(Start: 4 @36167 has 9 MA's), (Start: 9 @36098 has 26 MA's), (11, 36068), (12, 35912), (13, 35849), (14, 35816), (16, 35678),

Gene: FreddyB_46 Start: 34836, Stop: 34234, Start Num: 9

Candidate Starts for FreddyB_46:

(Start: 1 @34980 has 2 MA's), (Start: 2 @34974 has 29 MA's), (Start: 4 @34905 has 9 MA's), (Start: 8 @34854 has 17 MA's), (Start: 9 @34836 has 26 MA's), (11, 34806), (13, 34587), (16, 34416),

Gene: Galactic_45 Start: 35277, Stop: 34678, Start Num: 9

Candidate Starts for Galactic_45:

(Start: 4 @35346 has 9 MA's), (Start: 9 @35277 has 26 MA's), (11, 35247), (12, 35091), (13, 35028), (14, 34995), (16, 34857),

Gene: Geralt_43 Start: 34401, Stop: 33661, Start Num: 2

Candidate Starts for Geralt_43:

(Start: 1 @34407 has 2 MA's), (Start: 2 @34401 has 29 MA's), (Start: 4 @34332 has 9 MA's), (Start: 6 @34287 has 2 MA's), (Start: 8 @34281 has 17 MA's), (Start: 9 @34263 has 26 MA's), (11, 34233), (13, 34014), (16, 33843),

Gene: Guppsters_47 Start: 35114, Stop: 34446, Start Num: 4

Candidate Starts for Guppsters_47:

(Start: 4 @35114 has 9 MA's), (Start: 9 @35045 has 26 MA's), (11, 35015), (12, 34859), (13, 34796), (14, 34763), (16, 34625),

Gene: lbhubesi_46 Start: 35173, Stop: 34433, Start Num: 2

Candidate Starts for lbhubesi_46:

(Start: 1 @35179 has 2 MA's), (Start: 2 @35173 has 29 MA's), (Start: 4 @35104 has 9 MA's), (Start: 8 @35053 has 17 MA's), (Start: 9 @35035 has 26 MA's), (11, 35005), (13, 34786), (16, 34615),

Gene: Inventum_42 Start: 35114, Stop: 34374, Start Num: 2

Candidate Starts for Inventum_42:

(Start: 1 @35120 has 2 MA's), (Start: 2 @35114 has 29 MA's), (Start: 4 @35045 has 9 MA's), (Start: 6 @35000 has 2 MA's), (Start: 8 @34994 has 17 MA's), (Start: 9 @34976 has 26 MA's), (11, 34946), (13, 34727), (16, 34556),

Gene: Jacob_46 Start: 36094, Stop: 35354, Start Num: 2

Candidate Starts for Jacob_46:

(Start: 1 @36100 has 2 MA's), (Start: 2 @36094 has 29 MA's), (Start: 4 @36025 has 9 MA's), (Start: 8 @35974 has 17 MA's), (Start: 9 @35956 has 26 MA's), (11, 35926), (13, 35707), (16, 35536),

Gene: Job42_46 Start: 36416, Stop: 35691, Start Num: 3

Candidate Starts for Job42_46:

(Start: 1 @36437 has 2 MA's), (Start: 2 @36431 has 29 MA's), (Start: 3 @36416 has 3 MA's), (Start: 4 @36362 has 9 MA's), (Start: 8 @36311 has 17 MA's), (Start: 9 @36293 has 26 MA's), (11, 36263), (13, 36044), (16, 35873),

Gene: JoeyJr_43 Start: 34601, Stop: 33861, Start Num: 2

Candidate Starts for JoeyJr_43:

(Start: 1 @34607 has 2 MA's), (Start: 2 @34601 has 29 MA's), (Start: 4 @34532 has 9 MA's), (Start: 6 @34487 has 2 MA's), (Start: 8 @34481 has 17 MA's), (Start: 9 @34463 has 26 MA's), (11, 34433), (13, 34214), (16, 34043),

Gene: Kenuha5_41 Start: 33689, Stop: 33072, Start Num: 8

Candidate Starts for Kenuha5_41:

(Start: 1 @33815 has 2 MA's), (Start: 2 @33809 has 29 MA's), (Start: 4 @33740 has 9 MA's), (Start: 8 @33689 has 17 MA's), (Start: 9 @33671 has 26 MA's), (11, 33641), (12, 33485), (13, 33422), (14, 33389), (16, 33251),

Gene: KingMidas_47 Start: 36143, Stop: 35523, Start Num: 8

Candidate Starts for KingMidas_47:

(Start: 1 @36269 has 2 MA's), (Start: 2 @36263 has 29 MA's), (Start: 4 @36194 has 9 MA's), (Start: 6 @36149 has 2 MA's), (Start: 8 @36143 has 17 MA's), (Start: 9 @36125 has 26 MA's), (11, 36095), (13, 35876), (16, 35705),

Gene: Koella_40 Start: 32024, Stop: 31284, Start Num: 2

Candidate Starts for Koella_40:

(Start: 1 @32030 has 2 MA's), (Start: 2 @32024 has 29 MA's), (Start: 4 @31955 has 9 MA's), (Start: 8 @31904 has 17 MA's), (Start: 9 @31886 has 26 MA's), (11, 31856), (13, 31637), (16, 31466),

Gene: Krakatau_43 Start: 34815, Stop: 34195, Start Num: 8

Candidate Starts for Krakatau_43:

(Start: 1 @34941 has 2 MA's), (Start: 2 @34935 has 29 MA's), (Start: 4 @34866 has 9 MA's), (Start: 8 @34815 has 17 MA's), (Start: 9 @34797 has 26 MA's), (11, 34767), (13, 34548), (16, 34377),

Gene: KristaRAM_45 Start: 36010, Stop: 35411, Start Num: 9

Candidate Starts for KristaRAM_45:

(Start: 4 @36079 has 9 MA's), (Start: 9 @36010 has 26 MA's), (11, 35980), (12, 35824), (13, 35761), (14, 35728), (16, 35590),

Gene: Latretium_48 Start: 36053, Stop: 35313, Start Num: 2

Candidate Starts for Latretium_48:

(Start: 1 @36059 has 2 MA's), (Start: 2 @36053 has 29 MA's), (Start: 4 @35984 has 9 MA's), (Start: 8 @35933 has 17 MA's), (Start: 9 @35915 has 26 MA's), (11, 35885), (13, 35666), (16, 35495),

Gene: Leozinho_45 Start: 34717, Stop: 34115, Start Num: 9

Candidate Starts for Leozinho_45:

(Start: 1 @34861 has 2 MA's), (Start: 2 @34855 has 29 MA's), (Start: 4 @34786 has 9 MA's), (Start: 8 @34735 has 17 MA's), (Start: 9 @34717 has 26 MA's), (11, 34687), (13, 34468), (16, 34297),

Gene: Leperchaun_40 Start: 33717, Stop: 33091, Start Num: 6

Candidate Starts for Leperchaun_40:

(Start: 1 @33837 has 2 MA's), (Start: 2 @33831 has 29 MA's), (Start: 4 @33762 has 9 MA's), (Start: 6 @33717 has 2 MA's), (Start: 8 @33711 has 17 MA's), (Start: 9 @33693 has 26 MA's), (11, 33663), (13, 33444), (16, 33273),

Gene: LilMoolah_44 Start: 34833, Stop: 34093, Start Num: 2

Candidate Starts for LilMoolah_44:

(Start: 1 @34839 has 2 MA's), (Start: 2 @34833 has 29 MA's), (Start: 4 @34764 has 9 MA's), (Start: 8 @34713 has 17 MA's), (Start: 9 @34695 has 26 MA's), (11, 34665), (13, 34446), (16, 34275),

Gene: LittleShirley_46 Start: 35864, Stop: 35127, Start Num: 2

Candidate Starts for LittleShirley_46:

(Start: 1 @35870 has 2 MA's), (Start: 2 @35864 has 29 MA's), (Start: 4 @35795 has 9 MA's), (Start: 8 @35744 has 17 MA's), (Start: 9 @35726 has 26 MA's), (11, 35696), (12, 35540), (13, 35477), (14, 35444), (16, 35306),

Gene: Lizziana_52 Start: 37097, Stop: 36357, Start Num: 2

Candidate Starts for Lizziana_52:

(Start: 1 @37103 has 2 MA's), (Start: 2 @37097 has 29 MA's), (Start: 4 @37028 has 9 MA's), (Start: 8 @36977 has 17 MA's), (Start: 9 @36959 has 26 MA's), (11, 36929), (13, 36710), (16, 36539),

Gene: Llama_47 Start: 35849, Stop: 35229, Start Num: 8

Candidate Starts for Llama_47:

(Start: 1 @35975 has 2 MA's), (Start: 2 @35969 has 29 MA's), (Start: 4 @35900 has 9 MA's), (Start: 8 @35849 has 17 MA's), (Start: 9 @35831 has 26 MA's), (11, 35801), (13, 35582), (16, 35411),

Gene: Llij_42 Start: 34241, Stop: 33501, Start Num: 2

Candidate Starts for Llij_42:

(Start: 1 @34247 has 2 MA's), (Start: 2 @34241 has 29 MA's), (Start: 4 @34172 has 9 MA's), (Start: 8 @34121 has 17 MA's), (Start: 9 @34103 has 26 MA's), (11, 34073), (13, 33854), (16, 33683),

Gene: Lorde_47 Start: 34386, Stop: 33718, Start Num: 4

Candidate Starts for Lorde_47:

(Start: 4 @34386 has 9 MA's), (Start: 7 @34338 has 3 MA's), (Start: 9 @34317 has 26 MA's), (11, 34287), (12, 34131), (13, 34068), (14, 34035), (16, 33897),

Gene: LunaBlu_48 Start: 35936, Stop: 35337, Start Num: 9

Candidate Starts for LunaBlu_48:

(Start: 4 @36005 has 9 MA's), (Start: 9 @35936 has 26 MA's), (11, 35906), (12, 35750), (13, 35687), (14, 35654), (16, 35516),

Gene: MadMen_40 Start: 33743, Stop: 33141, Start Num: 9

Candidate Starts for MadMen_40:

(Start: 1 @33887 has 2 MA's), (Start: 2 @33881 has 29 MA's), (Start: 4 @33812 has 9 MA's), (Start: 8 @33761 has 17 MA's), (Start: 9 @33743 has 26 MA's), (11, 33713), (13, 33494), (16, 33323),

Gene: Marker_49 Start: 34736, Stop: 33996, Start Num: 2

Candidate Starts for Marker_49:

(Start: 1 @34742 has 2 MA's), (Start: 2 @34736 has 29 MA's), (Start: 4 @34667 has 9 MA's), (Start: 8 @34616 has 17 MA's), (Start: 9 @34598 has 26 MA's), (11, 34568), (13, 34349), (16, 34178),

Gene: Martik_46 Start: 36050, Stop: 35310, Start Num: 2

Candidate Starts for Martik_46:

(Start: 1 @36056 has 2 MA's), (Start: 2 @36050 has 29 MA's), (Start: 4 @35981 has 9 MA's), (Start: 8 @35930 has 17 MA's), (Start: 9 @35912 has 26 MA's), (11, 35882), (13, 35663), (16, 35492),

Gene: Melissauren88_44 Start: 35089, Stop: 34469, Start Num: 7

Candidate Starts for Melissauren88_44:

(Start: 4 @35137 has 9 MA's), (Start: 7 @35089 has 3 MA's), (Start: 9 @35068 has 26 MA's), (11, 35038), (12, 34882), (13, 34819), (14, 34786), (16, 34648),

Gene: MilanaBonita_39 Start: 31622, Stop: 31023, Start Num: 9

Candidate Starts for MilanaBonita_39:

(Start: 4 @31691 has 9 MA's), (Start: 9 @31622 has 26 MA's), (11, 31592), (12, 31436), (13, 31373), (14, 31340), (16, 31202),

Gene: MinionDave_45 Start: 35623, Stop: 35006, Start Num: 8

Candidate Starts for MinionDave_45:

(Start: 4 @35674 has 9 MA's), (Start: 8 @35623 has 17 MA's), (Start: 9 @35605 has 26 MA's), (11, 35575), (12, 35419), (13, 35356), (14, 35323), (16, 35185),

Gene: Modragons_46 Start: 35695, Stop: 35075, Start Num: 8

Candidate Starts for Modragons_46:

(Start: 1 @35821 has 2 MA's), (Start: 2 @35815 has 29 MA's), (Start: 4 @35746 has 9 MA's), (Start: 8 @35695 has 17 MA's), (Start: 9 @35677 has 26 MA's), (11, 35647), (13, 35428), (16, 35257),

Gene: Mova_46 Start: 34887, Stop: 34285, Start Num: 9

Candidate Starts for Mova_46:

(Start: 4 @34956 has 9 MA's), (Start: 9 @34887 has 26 MA's), (11, 34857), (12, 34701), (13, 34638), (16, 34467),

Gene: Mozy_54 Start: 37161, Stop: 36559, Start Num: 9

Candidate Starts for Mozy_54:

(Start: 1 @37305 has 2 MA's), (Start: 2 @37299 has 29 MA's), (Start: 4 @37230 has 9 MA's), (Start: 8 @37179 has 17 MA's), (Start: 9 @37161 has 26 MA's), (11, 37131), (13, 36912), (16, 36741),

Gene: Ms6_39 Start: 30134, Stop: 29535, Start Num: 9

Candidate Starts for Ms6_39:

(Start: 9 @30134 has 26 MA's), (11, 30104), (12, 29948), (13, 29885), (14, 29852), (16, 29714),

Gene: Nimbo_42 Start: 34404, Stop: 33664, Start Num: 2

Candidate Starts for Nimbo_42:

(Start: 1 @34410 has 2 MA's), (Start: 2 @34404 has 29 MA's), (Start: 4 @34335 has 9 MA's), (Start: 6 @34290 has 2 MA's), (Start: 8 @34284 has 17 MA's), (Start: 9 @34266 has 26 MA's), (11, 34236), (13, 34017), (16, 33846),

Gene: Nitzel_41 Start: 34509, Stop: 33769, Start Num: 2

Candidate Starts for Nitzel_41:

(Start: 1 @34515 has 2 MA's), (Start: 2 @34509 has 29 MA's), (Start: 4 @34440 has 9 MA's), (Start: 8 @34389 has 17 MA's), (Start: 9 @34371 has 26 MA's), (11, 34341), (13, 34122), (16, 33951),

Gene: Nivrat_44 Start: 34706, Stop: 33966, Start Num: 2

Candidate Starts for Nivrat_44:

(Start: 1 @34712 has 2 MA's), (Start: 2 @34706 has 29 MA's), (Start: 4 @34637 has 9 MA's), (Start: 8 @34586 has 17 MA's), (Start: 9 @34568 has 26 MA's), (11, 34538), (13, 34319), (16, 34148),

Gene: NormanBulbieJr_47 Start: 35899, Stop: 35297, Start Num: 9

Candidate Starts for NormanBulbieJr_47:

(Start: 1 @36043 has 2 MA's), (Start: 2 @36037 has 29 MA's), (Start: 4 @35968 has 9 MA's), (Start: 8 @35917 has 17 MA's), (Start: 9 @35899 has 26 MA's), (11, 35869), (13, 35650), (16, 35479),

Gene: OfUltron_47 Start: 35851, Stop: 35231, Start Num: 8

Candidate Starts for OfUltron_47:

(Start: 1 @35977 has 2 MA's), (Start: 2 @35971 has 29 MA's), (Start: 4 @35902 has 9 MA's), (Start: 8 @35851 has 17 MA's), (Start: 9 @35833 has 26 MA's), (11, 35803), (13, 35584), (16, 35413),

Gene: Ogopogo_46 Start: 34219, Stop: 33620, Start Num: 9

Candidate Starts for Ogopogo_46:

(Start: 4 @34288 has 9 MA's), (Start: 7 @34240 has 3 MA's), (Start: 9 @34219 has 26 MA's), (11, 34189), (12, 34033), (13, 33970), (14, 33937), (16, 33799),

Gene: OlympiaSaint_45 Start: 34760, Stop: 34140, Start Num: 8

Candidate Starts for OlympiaSaint_45:

(Start: 1 @34886 has 2 MA's), (Start: 2 @34880 has 29 MA's), (Start: 4 @34811 has 9 MA's), (Start: 8 @34760 has 17 MA's), (Start: 9 @34742 has 26 MA's), (11, 34712), (13, 34493), (16, 34322),

Gene: Ovechkin_43 Start: 35449, Stop: 34850, Start Num: 9

Candidate Starts for Ovechkin_43:

(Start: 4 @35518 has 9 MA's), (Start: 9 @35449 has 26 MA's), (11, 35419), (12, 35263), (13, 35200), (14, 35167), (16, 35029),

Gene: PHappiness_43 Start: 34377, Stop: 33637, Start Num: 2

Candidate Starts for PHappiness_43:

(Start: 1 @34383 has 2 MA's), (Start: 2 @34377 has 29 MA's), (Start: 4 @34308 has 9 MA's), (Start: 6 @34263 has 2 MA's), (Start: 8 @34257 has 17 MA's), (Start: 9 @34239 has 26 MA's), (11, 34209), (13, 33990), (16, 33819),

Gene: PMC_40 Start: 34183, Stop: 33512, Start Num: 4

Candidate Starts for PMC_40:

(Start: 1 @34258 has 2 MA's), (Start: 2 @34252 has 29 MA's), (Start: 4 @34183 has 9 MA's), (Start: 8 @34132 has 17 MA's), (Start: 9 @34114 has 26 MA's), (11, 34084), (13, 33865), (16, 33694),

Gene: Pacc40_42 Start: 34451, Stop: 33711, Start Num: 2

Candidate Starts for Pacc40_42:

(Start: 1 @34457 has 2 MA's), (Start: 2 @34451 has 29 MA's), (Start: 4 @34382 has 9 MA's), (Start: 6 @34337 has 2 MA's), (Start: 8 @34331 has 17 MA's), (Start: 9 @34313 has 26 MA's), (11, 34283), (13, 34064), (16, 33893),

Gene: Phalconet_44 Start: 34467, Stop: 33847, Start Num: 7

Candidate Starts for Phalconet_44:

(Start: 4 @34515 has 9 MA's), (Start: 7 @34467 has 3 MA's), (Start: 9 @34446 has 26 MA's), (11, 34416), (12, 34260), (13, 34197), (14, 34164), (16, 34026),

Gene: Phasih_43 Start: 34796, Stop: 34056, Start Num: 2

Candidate Starts for Phasih_43:

(Start: 1 @34802 has 2 MA's), (Start: 2 @34796 has 29 MA's), (Start: 3 @34781 has 3 MA's), (Start: 4 @34727 has 9 MA's), (Start: 8 @34676 has 17 MA's), (Start: 9 @34658 has 26 MA's), (11, 34628), (13, 34409), (16, 34238),

Gene: Phatniss_43 Start: 34638, Stop: 34018, Start Num: 8

Candidate Starts for Phatniss_43:

(Start: 1 @34764 has 2 MA's), (Start: 2 @34758 has 29 MA's), (Start: 4 @34689 has 9 MA's), (Start: 8 @34638 has 17 MA's), (Start: 9 @34620 has 26 MA's), (11, 34590), (13, 34371), (16, 34200),

Gene: PhesterPhotato_48 Start: 35470, Stop: 34802, Start Num: 4

Candidate Starts for PhesterPhotato_48:

(Start: 4 @35470 has 9 MA's), (Start: 7 @35422 has 3 MA's), (Start: 9 @35401 has 26 MA's), (11, 35371), (12, 35215), (13, 35152), (14, 35119), (16, 34981),

Gene: Plumbus_45 Start: 34510, Stop: 33764, Start Num: 1

Candidate Starts for Plumbus_45:

(Start: 1 @34510 has 2 MA's), (Start: 2 @34504 has 29 MA's), (Start: 4 @34435 has 9 MA's), (Start: 8 @34384 has 17 MA's), (Start: 9 @34366 has 26 MA's), (11, 34336), (13, 34117), (16, 33946),

Gene: Polka14_44 Start: 35054, Stop: 34314, Start Num: 2

Candidate Starts for Polka14_44:

(Start: 1 @35060 has 2 MA's), (Start: 2 @35054 has 29 MA's), (Start: 4 @34985 has 9 MA's), (Start: 6 @34940 has 2 MA's), (Start: 8 @34934 has 17 MA's), (Start: 9 @34916 has 26 MA's), (11, 34886), (13, 34667), (16, 34496),

Gene: PopTart_41 Start: 34264, Stop: 33524, Start Num: 2

Candidate Starts for PopTart_41:

(Start: 1 @34270 has 2 MA's), (Start: 2 @34264 has 29 MA's), (Start: 8 @34144 has 17 MA's), (Start: 9 @34126 has 26 MA's), (11, 34096), (13, 33877), (16, 33706),

Gene: Priscilla_46 Start: 36136, Stop: 35396, Start Num: 2

Candidate Starts for Priscilla_46:

(Start: 1 @36142 has 2 MA's), (Start: 2 @36136 has 29 MA's), (Start: 4 @36067 has 9 MA's), (Start: 8 @36016 has 17 MA's), (Start: 9 @35998 has 26 MA's), (11, 35968), (13, 35749), (16, 35578),

Gene: RitaG_43 Start: 34608, Stop: 33982, Start Num: 6

Candidate Starts for RitaG_43:

(Start: 1 @34728 has 2 MA's), (Start: 2 @34722 has 29 MA's), (Start: 4 @34653 has 9 MA's), (Start: 6 @34608 has 2 MA's), (Start: 8 @34602 has 17 MA's), (Start: 9 @34584 has 26 MA's), (11, 34554), (13, 34335), (16, 34164),

Gene: Rockne_43 Start: 34183, Stop: 33512, Start Num: 4

Candidate Starts for Rockne_43:

(Start: 1 @34258 has 2 MA's), (Start: 2 @34252 has 29 MA's), (Start: 4 @34183 has 9 MA's), (Start: 8 @34132 has 17 MA's), (Start: 9 @34114 has 26 MA's), (11, 34084), (13, 33865), (16, 33694),

Gene: RockyHorror_46 Start: 34639, Stop: 33914, Start Num: 3

Candidate Starts for RockyHorror_46:

(Start: 1 @34660 has 2 MA's), (Start: 2 @34654 has 29 MA's), (Start: 3 @34639 has 3 MA's), (Start: 4 @34585 has 9 MA's), (Start: 8 @34534 has 17 MA's), (Start: 9 @34516 has 26 MA's), (11, 34486), (13, 34267), (16, 34096),

Gene: Ruby_44 Start: 35364, Stop: 34702, Start Num: 5

Candidate Starts for Ruby_44:

(Start: 5 @35364 has 1 MA's), (10, 35295), (11, 35274), (13, 35055), (16, 34884),

Gene: SG4_44 Start: 34827, Stop: 34228, Start Num: 9

Candidate Starts for SG4_44:

(Start: 4 @34896 has 9 MA's), (Start: 7 @34848 has 3 MA's), (Start: 9 @34827 has 26 MA's), (11, 34797), (12, 34641), (13, 34578), (14, 34545), (16, 34407),

Gene: SassyB_41 Start: 34264, Stop: 33524, Start Num: 2

Candidate Starts for SassyB_41:

(Start: 1 @34270 has 2 MA's), (Start: 2 @34264 has 29 MA's), (Start: 8 @34144 has 17 MA's), (Start: 9 @34126 has 26 MA's), (11, 34096), (13, 33877), (16, 33706),

Gene: Scottish_46 Start: 35596, Stop: 34994, Start Num: 9

Candidate Starts for Scottish_46:

(Start: 1 @35740 has 2 MA's), (Start: 2 @35734 has 29 MA's), (Start: 4 @35665 has 9 MA's), (Start: 6 @35620 has 2 MA's), (Start: 8 @35614 has 17 MA's), (Start: 9 @35596 has 26 MA's), (11, 35566), (13, 35347), (16, 35176),

Gene: Seabastian_47 Start: 35833, Stop: 35231, Start Num: 9

Candidate Starts for Seabastian_47:

(Start: 1 @35977 has 2 MA's), (Start: 2 @35971 has 29 MA's), (Start: 4 @35902 has 9 MA's), (Start: 8 @35851 has 17 MA's), (Start: 9 @35833 has 26 MA's), (11, 35803), (13, 35584), (16, 35413),

Gene: Seagreen_46 Start: 34859, Stop: 34257, Start Num: 9
Candidate Starts for Seagreen_46:
(Start: 9 @34859 has 26 MA's), (11, 34829), (13, 34610), (16, 34439),

Gene: Shauna1_40 Start: 33581, Stop: 32982, Start Num: 9
Candidate Starts for Shauna1_40:
(Start: 1 @33725 has 2 MA's), (Start: 2 @33719 has 29 MA's), (Start: 4 @33650 has 9 MA's), (Start: 8 @33599 has 17 MA's), (Start: 9 @33581 has 26 MA's), (11, 33551), (12, 33395), (13, 33332), (14, 33299), (16, 33161),

Gene: ShiLan_46 Start: 35945, Stop: 35343, Start Num: 9
Candidate Starts for ShiLan_46:
(Start: 1 @36089 has 2 MA's), (Start: 2 @36083 has 29 MA's), (Start: 4 @36014 has 9 MA's), (Start: 8 @35963 has 17 MA's), (Start: 9 @35945 has 26 MA's), (11, 35915), (13, 35696), (16, 35525),

Gene: ShowerHandel_47 Start: 36050, Stop: 35310, Start Num: 2
Candidate Starts for ShowerHandel_47:
(Start: 1 @36056 has 2 MA's), (Start: 2 @36050 has 29 MA's), (Start: 4 @35981 has 9 MA's), (Start: 8 @35930 has 17 MA's), (Start: 9 @35912 has 26 MA's), (11, 35882), (13, 35663), (16, 35492),

Gene: SimranZ1_45 Start: 34125, Stop: 33523, Start Num: 9
Candidate Starts for SimranZ1_45:
(Start: 1 @34269 has 2 MA's), (Start: 2 @34263 has 29 MA's), (Start: 4 @34194 has 9 MA's), (Start: 8 @34143 has 17 MA's), (Start: 9 @34125 has 26 MA's), (11, 34095), (13, 33876), (15, 33726), (16, 33705),

Gene: Sparkdehlily_48 Start: 35654, Stop: 34914, Start Num: 2
Candidate Starts for Sparkdehlily_48:
(Start: 1 @35660 has 2 MA's), (Start: 2 @35654 has 29 MA's), (Start: 4 @35585 has 9 MA's), (Start: 8 @35534 has 17 MA's), (Start: 9 @35516 has 26 MA's), (11, 35486), (13, 35267), (16, 35096),

Gene: Spoonbill_45 Start: 34607, Stop: 33936, Start Num: 4
Candidate Starts for Spoonbill_45:
(Start: 1 @34682 has 2 MA's), (Start: 2 @34676 has 29 MA's), (Start: 4 @34607 has 9 MA's), (Start: 6 @34562 has 2 MA's), (Start: 8 @34556 has 17 MA's), (Start: 9 @34538 has 26 MA's), (11, 34508), (13, 34289), (16, 34118),

Gene: StAnnes_45 Start: 36046, Stop: 35447, Start Num: 9
Candidate Starts for StAnnes_45:
(Start: 4 @36115 has 9 MA's), (Start: 9 @36046 has 26 MA's), (11, 36016), (12, 35860), (13, 35797), (14, 35764), (16, 35626),

Gene: Stap_44 Start: 34554, Stop: 33814, Start Num: 2
Candidate Starts for Stap_44:
(Start: 1 @34560 has 2 MA's), (Start: 2 @34554 has 29 MA's), (Start: 3 @34539 has 3 MA's), (Start: 4 @34485 has 9 MA's), (Start: 8 @34434 has 17 MA's), (Start: 9 @34416 has 26 MA's), (11, 34386), (13, 34167), (16, 33996),

Gene: TDanisky_48 Start: 35534, Stop: 34914, Start Num: 8
Candidate Starts for TDanisky_48:
(Start: 1 @35660 has 2 MA's), (Start: 2 @35654 has 29 MA's), (Start: 4 @35585 has 9 MA's), (Start: 8 @35534 has 17 MA's), (Start: 9 @35516 has 26 MA's), (11, 35486), (13, 35267), (16, 35096),

Gene: Taj_47 Start: 35103, Stop: 34483, Start Num: 8

Candidate Starts for Taj_47:

(Start: 1 @35229 has 2 MA's), (Start: 2 @35223 has 29 MA's), (Start: 4 @35154 has 9 MA's), (Start: 8 @35103 has 17 MA's), (Start: 9 @35085 has 26 MA's), (11, 35055), (13, 34836), (16, 34665),

Gene: Tootsieroll_47 Start: 34724, Stop: 34104, Start Num: 8

Candidate Starts for Tootsieroll_47:

(Start: 1 @34850 has 2 MA's), (Start: 2 @34844 has 29 MA's), (Start: 4 @34775 has 9 MA's), (Start: 8 @34724 has 17 MA's), (Start: 9 @34706 has 26 MA's), (11, 34676), (13, 34457), (16, 34286),

Gene: VRedHorse_46 Start: 35313, Stop: 34693, Start Num: 7

Candidate Starts for VRedHorse_46:

(Start: 4 @35361 has 9 MA's), (Start: 7 @35313 has 3 MA's), (Start: 9 @35292 has 26 MA's), (11, 35262), (12, 35106), (13, 35043), (14, 35010), (16, 34872),

Gene: XFactor_44 Start: 34845, Stop: 34177, Start Num: 4

Candidate Starts for XFactor_44:

(Start: 4 @34845 has 9 MA's), (Start: 9 @34776 has 26 MA's), (11, 34746), (12, 34590), (13, 34527), (16, 34356),

Gene: Yorick_43 Start: 34763, Stop: 34023, Start Num: 2

Candidate Starts for Yorick_43:

(Start: 1 @34769 has 2 MA's), (Start: 2 @34763 has 29 MA's), (Start: 4 @34694 has 9 MA's), (Start: 8 @34643 has 17 MA's), (Start: 9 @34625 has 26 MA's), (11, 34595), (13, 34376), (16, 34205),

Gene: Zerg_44 Start: 34625, Stop: 34023, Start Num: 9

Candidate Starts for Zerg_44:

(Start: 1 @34769 has 2 MA's), (Start: 2 @34763 has 29 MA's), (Start: 3 @34748 has 3 MA's), (Start: 4 @34694 has 9 MA's), (Start: 8 @34643 has 17 MA's), (Start: 9 @34625 has 26 MA's), (11, 34595), (13, 34376), (16, 34205),