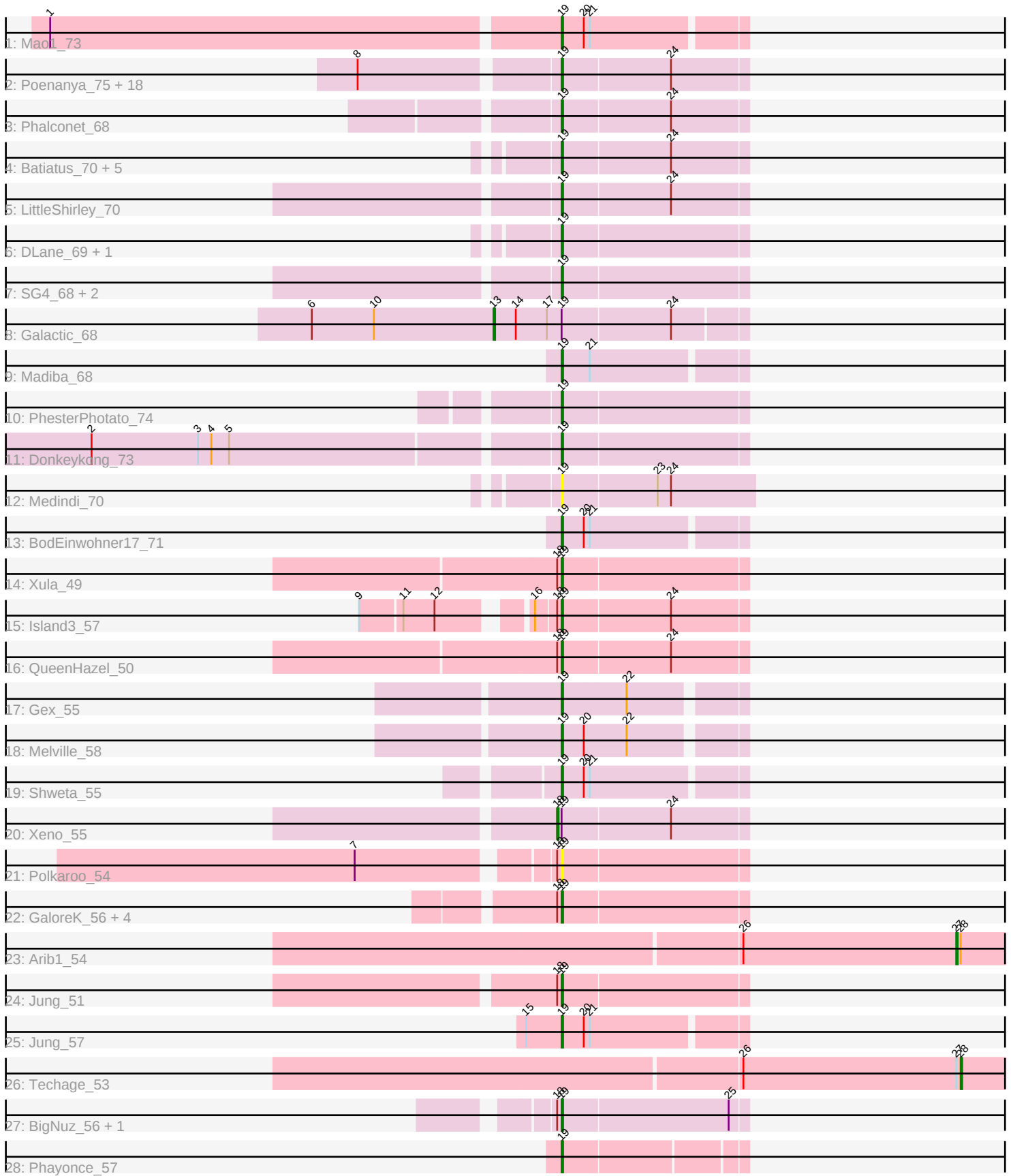


Pham 280471



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 280471 Report

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

Pham number 280471 has 59 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Mao1_73
- Track 2 : Poenanya_75, Deb65_65, Nimbo_64, Daenerys_71, Inventum_70, JoeyJr_72, RedBird_73, RitaG_72, Doomphist_75, Dorothy_73, Scottish_70, Sassafras_73, OldBen_69, Polka14_76, Leperchaun_70, Empress_70, KingMidas_71, Geralt_65, PHappiness_72
- Track 3 : Phalconet_68
- Track 4 : Batiatus_70, Kingsley_75, Babsiella_59, Ovechkin_74, Quico_81, Florinda_84
- Track 5 : LittleShirley_70
- Track 6 : DLane_69, Ms6_70
- Track 7 : SG4_68, Hegedechwinu_71, StAnnes_69
- Track 8 : Galactic_68
- Track 9 : Madiba_68
- Track 10 : PhesterPhotato_74
- Track 11 : Donkeykong_73
- Track 12 : Medindi_70
- Track 13 : BodEinwohner17_71
- Track 14 : Xula_49
- Track 15 : Island3_57
- Track 16 : QueenHazel_50
- Track 17 : Gex_55
- Track 18 : Melville_58
- Track 19 : Shweta_55
- Track 20 : Xeno_55
- Track 21 : Polkaroo_54
- Track 22 : GaloreK_56, Mangethe_58, Zilizebeth_58, Majeke_58, Phegasus_58
- Track 23 : Arib1_54
- Track 24 : Jung_51
- Track 25 : Jung_57
- Track 26 : Techage_53
- Track 27 : BigNuz_56, Nazo_57
- Track 28 : Phayonce_57

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

The start number called the most often in the published annotations is 19, it was called in 51 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Babsiella_59, Batiatus_70, BigNuz_56, BodEinwohner17_71, DLane_69, Daenerys_71, Deb65_65, Donkeykong_73, Doomphist_75, Dorothy_73, Empress_70, Florinda_84, GaloreK_56, Geralt_65, Gex_55, Hegedechwinu_71, Inventum_70, Island3_57, JoeyJr_72, Jung_51, Jung_57, KingMidas_71, Kingsley_75, Leperchaun_70, LittleShirley_70, Madiba_68, Majeke_58, Mangethe_58, Mao1_73, Medindi_70, Melville_58, Ms6_70, Nazo_57, Nimbo_64, OldBen_69, Ovechkin_74, PHappiness_72, Phalconet_68, Phayonce_57, Phegasus_58, PhesterPhotato_74, Poenanya_75, Polka14_76, Polkaroo_54, QueenHazel_50, Quico_81, RedBird_73, RitaG_72, SG4_68, Sassafra_73, Scottish_70, Shweta_55, StAnnes_69, Xula_49, Zilizebeth_58,

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

- Galactic_68, Xeno_55,

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

- Arib1_54, Techage_53,

Summary by start number:

Start 13:

- Found in 1 of 59 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Galactic_68 (F1),

Start 18:

- Found in 13 of 59 (22.0%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Xeno_55 (N),

Start 19:

- Found in 57 of 59 (96.6%) of genes in pham
- Manual Annotations of this start: 51 of 55
- Called 96.5% of time when present
- Phage (with cluster) where this start called: Babsiella_59 (I1), Batiatus_70 (F1), BigNuz_56 (P4), BodEinwohner17_71 (F1), DLane_69 (F1), Daenerys_71 (F1), Deb65_65 (F1), Donkeykong_73 (F1), Doomphist_75 (F1), Dorothy_73 (F1), Empress_70 (F1), Florinda_84 (F1), GaloreK_56 (P1), Geralt_65 (F1), Gex_55 (N), Hegedechwinu_71 (F1), Inventum_70 (F1), Island3_57 (I1), JoeyJr_72 (F1), Jung_51 (P1), Jung_57 (P1), KingMidas_71 (F1), Kingsley_75 (F1), Leperchaun_70 (F1), LittleShirley_70 (F1), Madiba_68 (F1), Majeke_58 (P1), Mangethe_58 (P1), Mao1_73 (AD), Medindi_70 (F1), Melville_58 (N), Ms6_70 (F1), Nazo_57 (P4), Nimbo_64 (F1), OldBen_69 (F1), Ovechkin_74 (F1), PHappiness_72 (F1), Phalconet_68 (F1), Phayonce_57 (P5), Phegasus_58 (P1), PhesterPhotato_74 (F1), Poenanya_75 (F1), Polka14_76 (F1), Polkaroo_54 (P1), QueenHazel_50 (I1), Quico_81 (F1), RedBird_73 (F1), RitaG_72 (F1), SG4_68 (F1), Sassafra_73 (F1), Scottish_70 (F1), Shweta_55 (N), StAnnes_69 (F1), Xula_49 (I1), Zilizebeth_58 (P1),

Start 27:

- Found in 2 of 59 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Arib1_54 (P1),

Start 28:

- Found in 2 of 59 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Techage_53 (P1),

Summary by clusters:

There are 7 clusters represented in this pham: F1, P1, AD, P4, P5, I1, N,

Info for manual annotations of cluster AD:

- Start number 19 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster F1:

- Start number 13 was manually annotated 1 time for cluster F1.
- Start number 19 was manually annotated 34 times for cluster F1.

Info for manual annotations of cluster I1:

- Start number 19 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster N:

- Start number 18 was manually annotated 1 time for cluster N.
- Start number 19 was manually annotated 3 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 19 was manually annotated 6 times for cluster P1.
- Start number 27 was manually annotated 1 time for cluster P1.
- Start number 28 was manually annotated 1 time for cluster P1.

Info for manual annotations of cluster P4:

- Start number 19 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 19 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: Arib1_54 Start: 36196, Stop: 36321, Start Num: 27

Candidate Starts for Arib1_54:

(26, 36052), (Start: 27 @36196 has 1 MA's), (Start: 28 @36199 has 1 MA's),

Gene: Babsiella_59 Start: 39433, Stop: 39555, Start Num: 19

Candidate Starts for Babsiella_59:

(Start: 19 @39433 has 51 MA's), (24, 39505),

Gene: Batiatus_70 Start: 44968, Stop: 45090, Start Num: 19

Candidate Starts for Batiatus_70:

(Start: 19 @44968 has 51 MA's), (24, 45040),

Gene: BigNuz_56 Start: 39756, Stop: 39878, Start Num: 19

Candidate Starts for BigNuz_56:

(Start: 18 @39753 has 1 MA's), (Start: 19 @39756 has 51 MA's), (25, 39867),

Gene: BodEinwohner17_71 Start: 45997, Stop: 46113, Start Num: 19

Candidate Starts for BodEinwohner17_71:

(Start: 19 @45997 has 51 MA's), (20, 46012), (21, 46015),

Gene: DLane_69 Start: 44902, Stop: 45024, Start Num: 19

Candidate Starts for DLane_69:

(Start: 19 @44902 has 51 MA's),

Gene: Daenerys_71 Start: 46948, Stop: 47070, Start Num: 19

Candidate Starts for Daenerys_71:

(8, 46825), (Start: 19 @46948 has 51 MA's), (24, 47020),

Gene: Deb65_65 Start: 44669, Stop: 44791, Start Num: 19

Candidate Starts for Deb65_65:

(8, 44546), (Start: 19 @44669 has 51 MA's), (24, 44741),

Gene: Donkeykong_73 Start: 46520, Stop: 46642, Start Num: 19

Candidate Starts for Donkeykong_73:

(2, 46217), (3, 46289), (4, 46298), (5, 46310), (Start: 19 @46520 has 51 MA's),

Gene: Doomphist_75 Start: 46761, Stop: 46883, Start Num: 19

Candidate Starts for Doomphist_75:

(8, 46638), (Start: 19 @46761 has 51 MA's), (24, 46833),

Gene: Dorothy_73 Start: 45386, Stop: 45508, Start Num: 19

Candidate Starts for Dorothy_73:

(8, 45263), (Start: 19 @45386 has 51 MA's), (24, 45458),

Gene: Empress_70 Start: 45572, Stop: 45694, Start Num: 19

Candidate Starts for Empress_70:

(8, 45449), (Start: 19 @45572 has 51 MA's), (24, 45644),

Gene: Florinda_84 Start: 47608, Stop: 47730, Start Num: 19

Candidate Starts for Florinda_84:

(Start: 19 @47608 has 51 MA's), (24, 47680),

Gene: Galactic_68 Start: 45071, Stop: 45235, Start Num: 13

Candidate Starts for Galactic_68:

(6, 44948), (10, 44990), (Start: 13 @45071 has 1 MA's), (14, 45086), (17, 45107), (Start: 19 @45116 has 51 MA's), (24, 45188),

Gene: GaloreK_56 Start: 37671, Stop: 37793, Start Num: 19

Candidate Starts for GaloreK_56:

(Start: 18 @37668 has 1 MA's), (Start: 19 @37671 has 51 MA's),

Gene: Geralt_65 Start: 44668, Stop: 44790, Start Num: 19

Candidate Starts for Geralt_65:

(8, 44545), (Start: 19 @44668 has 51 MA's), (24, 44740),

Gene: Gex_55 Start: 36173, Stop: 36286, Start Num: 19

Candidate Starts for Gex_55:

(Start: 19 @36173 has 51 MA's), (22, 36215),

Gene: Hegedechwinu_71 Start: 42986, Stop: 43108, Start Num: 19

Candidate Starts for Hegedechwinu_71:

(Start: 19 @42986 has 51 MA's),

Gene: Inventum_70 Start: 45584, Stop: 45706, Start Num: 19

Candidate Starts for Inventum_70:

(8, 45461), (Start: 19 @45584 has 51 MA's), (24, 45656),

Gene: Island3_57 Start: 38289, Stop: 38411, Start Num: 19

Candidate Starts for Island3_57:

(9, 38178), (11, 38205), (12, 38226), (16, 38274), (Start: 18 @38286 has 1 MA's), (Start: 19 @38289 has 51 MA's), (24, 38361),

Gene: JoeyJr_72 Start: 46573, Stop: 46695, Start Num: 19

Candidate Starts for JoeyJr_72:

(8, 46450), (Start: 19 @46573 has 51 MA's), (24, 46645),

Gene: Jung_51 Start: 35878, Stop: 36000, Start Num: 19

Candidate Starts for Jung_51:

(Start: 18 @35875 has 1 MA's), (Start: 19 @35878 has 51 MA's),

Gene: Jung_57 Start: 38107, Stop: 38223, Start Num: 19

Candidate Starts for Jung_57:

(15, 38083), (Start: 19 @38107 has 51 MA's), (20, 38122), (21, 38125),

Gene: KingMidas_71 Start: 45987, Stop: 46109, Start Num: 19

Candidate Starts for KingMidas_71:

(8, 45864), (Start: 19 @45987 has 51 MA's), (24, 46059),

Gene: Kingsley_75 Start: 48363, Stop: 48485, Start Num: 19

Candidate Starts for Kingsley_75:

(Start: 19 @48363 has 51 MA's), (24, 48435),

Gene: Leperchaun_70 Start: 45807, Stop: 45929, Start Num: 19

Candidate Starts for Leperchaun_70:

(8, 45684), (Start: 19 @45807 has 51 MA's), (24, 45879),

Gene: LittleShirley_70 Start: 44567, Stop: 44689, Start Num: 19

Candidate Starts for LittleShirley_70:

(Start: 19 @44567 has 51 MA's), (24, 44639),

Gene: Madiba_68 Start: 44600, Stop: 44716, Start Num: 19

Candidate Starts for Madiba_68:

(Start: 19 @44600 has 51 MA's), (21, 44618),

Gene: Majeke_58 Start: 37716, Stop: 37838, Start Num: 19
Candidate Starts for Majeke_58:
(Start: 18 @37713 has 1 MA's), (Start: 19 @37716 has 51 MA's),

Gene: Mangethe_58 Start: 37716, Stop: 37838, Start Num: 19
Candidate Starts for Mangethe_58:
(Start: 18 @37713 has 1 MA's), (Start: 19 @37716 has 51 MA's),

Gene: Mao1_73 Start: 53391, Stop: 53507, Start Num: 19
Candidate Starts for Mao1_73:
(1, 53055), (Start: 19 @53391 has 51 MA's), (20, 53406), (21, 53409),

Gene: Medindi_70 Start: 44108, Stop: 44236, Start Num: 19
Candidate Starts for Medindi_70:
(Start: 19 @44108 has 51 MA's), (23, 44171), (24, 44180),

Gene: Melville_58 Start: 36158, Stop: 36271, Start Num: 19
Candidate Starts for Melville_58:
(Start: 19 @36158 has 51 MA's), (20, 36173), (22, 36200),

Gene: Ms6_70 Start: 41131, Stop: 41253, Start Num: 19
Candidate Starts for Ms6_70:
(Start: 19 @41131 has 51 MA's),

Gene: Nazo_57 Start: 39956, Stop: 40078, Start Num: 19
Candidate Starts for Nazo_57:
(Start: 18 @39953 has 1 MA's), (Start: 19 @39956 has 51 MA's), (25, 40067),

Gene: Nimbo_64 Start: 44671, Stop: 44793, Start Num: 19
Candidate Starts for Nimbo_64:
(8, 44548), (Start: 19 @44671 has 51 MA's), (24, 44743),

Gene: OldBen_69 Start: 46063, Stop: 46185, Start Num: 19
Candidate Starts for OldBen_69:
(8, 45940), (Start: 19 @46063 has 51 MA's), (24, 46135),

Gene: Ovechkin_74 Start: 46191, Stop: 46313, Start Num: 19
Candidate Starts for Ovechkin_74:
(Start: 19 @46191 has 51 MA's), (24, 46263),

Gene: PHappiness_72 Start: 46892, Stop: 47014, Start Num: 19
Candidate Starts for PHappiness_72:
(8, 46769), (Start: 19 @46892 has 51 MA's), (24, 46964),

Gene: Phalconet_68 Start: 43304, Stop: 43426, Start Num: 19
Candidate Starts for Phalconet_68:
(Start: 19 @43304 has 51 MA's), (24, 43376),

Gene: Phayonce_57 Start: 40353, Stop: 40469, Start Num: 19
Candidate Starts for Phayonce_57:
(Start: 19 @40353 has 51 MA's),

Gene: Phegasus_58 Start: 37683, Stop: 37805, Start Num: 19
Candidate Starts for Phegasus_58:
(Start: 18 @37680 has 1 MA's), (Start: 19 @37683 has 51 MA's),

Gene: PhesterPhotato_74 Start: 45630, Stop: 45752, Start Num: 19
Candidate Starts for PhesterPhotato_74:
(Start: 19 @45630 has 51 MA's),

Gene: Poenanya_75 Start: 46761, Stop: 46883, Start Num: 19
Candidate Starts for Poenanya_75:
(8, 46638), (Start: 19 @46761 has 51 MA's), (24, 46833),

Gene: Polka14_76 Start: 47551, Stop: 47673, Start Num: 19
Candidate Starts for Polka14_76:
(8, 47428), (Start: 19 @47551 has 51 MA's), (24, 47623),

Gene: Polkaroo_54 Start: 37256, Stop: 37378, Start Num: 19
Candidate Starts for Polkaroo_54:
(7, 37136), (Start: 18 @37253 has 1 MA's), (Start: 19 @37256 has 51 MA's),

Gene: QueenHazel_50 Start: 36087, Stop: 36209, Start Num: 19
Candidate Starts for QueenHazel_50:
(Start: 18 @36084 has 1 MA's), (Start: 19 @36087 has 51 MA's), (24, 36159),

Gene: Quico_81 Start: 47428, Stop: 47550, Start Num: 19
Candidate Starts for Quico_81:
(Start: 19 @47428 has 51 MA's), (24, 47500),

Gene: RedBird_73 Start: 45253, Stop: 45375, Start Num: 19
Candidate Starts for RedBird_73:
(8, 45130), (Start: 19 @45253 has 51 MA's), (24, 45325),

Gene: RitaG_72 Start: 46694, Stop: 46816, Start Num: 19
Candidate Starts for RitaG_72:
(8, 46571), (Start: 19 @46694 has 51 MA's), (24, 46766),

Gene: SG4_68 Start: 43359, Stop: 43481, Start Num: 19
Candidate Starts for SG4_68:
(Start: 19 @43359 has 51 MA's),

Gene: Sassafras_73 Start: 45583, Stop: 45705, Start Num: 19
Candidate Starts for Sassafras_73:
(8, 45460), (Start: 19 @45583 has 51 MA's), (24, 45655),

Gene: Scottish_70 Start: 45242, Stop: 45364, Start Num: 19
Candidate Starts for Scottish_70:
(8, 45119), (Start: 19 @45242 has 51 MA's), (24, 45314),

Gene: Shweta_55 Start: 36817, Stop: 36933, Start Num: 19
Candidate Starts for Shweta_55:
(Start: 19 @36817 has 51 MA's), (20, 36832), (21, 36835),

Gene: StAnnes_69 Start: 44436, Stop: 44558, Start Num: 19

Candidate Starts for StAnnes_69:
(Start: 19 @44436 has 51 MA's),

Gene: Techage_53 Start: 36249, Stop: 36371, Start Num: 28
Candidate Starts for Techage_53:
(26, 36102), (Start: 27 @36246 has 1 MA's), (Start: 28 @36249 has 1 MA's),

Gene: Xeno_55 Start: 35530, Stop: 35655, Start Num: 18
Candidate Starts for Xeno_55:
(Start: 18 @35530 has 1 MA's), (Start: 19 @35533 has 51 MA's), (24, 35605),

Gene: Xula_49 Start: 35689, Stop: 35811, Start Num: 19
Candidate Starts for Xula_49:
(Start: 18 @35686 has 1 MA's), (Start: 19 @35689 has 51 MA's),

Gene: Zilizebeth_58 Start: 37707, Stop: 37829, Start Num: 19
Candidate Starts for Zilizebeth_58:
(Start: 18 @37704 has 1 MA's), (Start: 19 @37707 has 51 MA's),