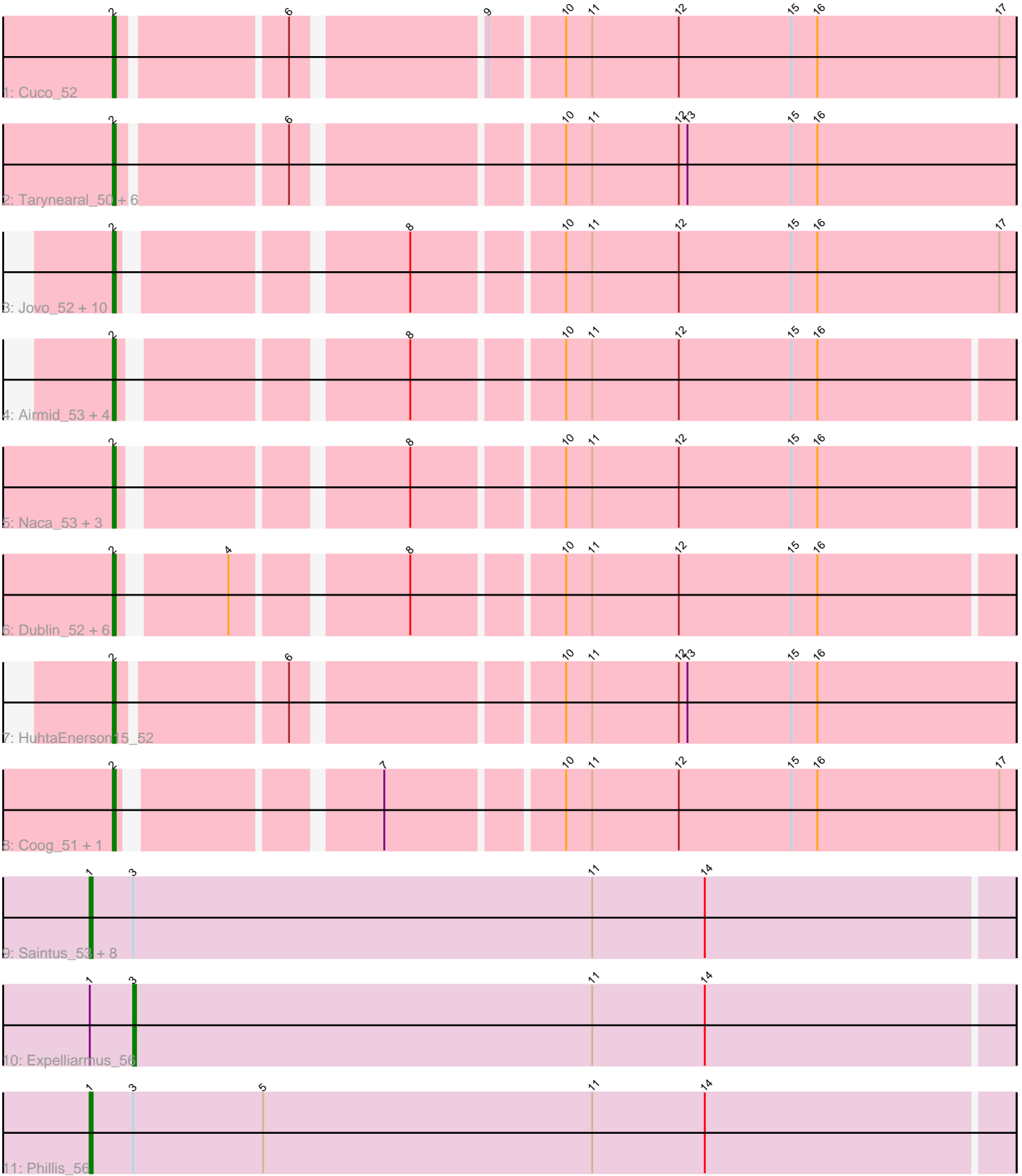


Pham 1883



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 1883 Report

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

Pham number 1883 has 49 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Cuco_52
- Track 2 : Tarynearal_50, George_50, Swirley_54, LittleCherry_52, Micasa_52, Bonamassa_52, Milcery_52
- Track 3 : Jovo_52, PickleBack_52, Lev2_52, Archetta_51, Phlorence_50, Conspiracy_52, ForGetIt_52, Discoknowium_50, Tiger_51, AgentM_51, Aragog_51
- Track 4 : Airmid_53, ElTiger69_55, Benedict_56, Jabiru_54, UnionJack_54
- Track 5 : Naca_53, Chadwick_56, Scorpia_57, PetterN_57
- Track 6 : Dublin_52, SydNat_55, MarysWell_52, Zolita_54, Ghoulboy_55, Bluefalcon_51, Theia_51
- Track 7 : HuhtaEnerson15_52
- Track 8 : Coog_51, Midas2_51
- Track 9 : Saintus_53, Stephig9_58, Smeadley_58, Groundhog_57, Astro_58, Roary_59, Dixon_57, NearlyHeadless_58, Danforth_58
- Track 10 : Expelliarmus_56
- Track 11 : Phillis_56

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 37 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_51, Airmid_53, Aragog_51, Archetta_51, Benedict_56, Bluefalcon_51, Bonamassa_52, Chadwick_56, Conspiracy_52, Coog_51, Cuco_52, Discoknowium_50, Dublin_52, ElTiger69_55, ForGetIt_52, George_50, Ghoulboy_55, HuhtaEnerson15_52, Jabiru_54, Jovo_52, Lev2_52, LittleCherry_52, MarysWell_52, Micasa_52, Midas2_51, Milcery_52, Naca_53, PetterN_57, Phlorence_50, PickleBack_52, Scorpia_57, Swirley_54, SydNat_55, Tarynearal_50, Theia_51, Tiger_51, UnionJack_54, Zolita_54,

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

-

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

- Astro_58, Danforth_58, Dixon_57, Expelliarmus_56, Groundhog_57, NearlyHeadless_58, Phillis_56, Roary_59, Saintus_53, Smeadley_58, Stephig9_58,

Summary by start number:

Start 1:

- Found in 11 of 49 (22.4%) of genes in pham
- Manual Annotations of this start: 10 of 48
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Astro_58 (A8), Danforth_58 (A8), Dixon_57 (A8), Groundhog_57 (A8), NearlyHeadless_58 (A8), Phillis_56 (A8), Roary_59 (A8), Saintus_53 (A8), Smeadley_58 (A8), Stephig9_58 (A8),

Start 2:

- Found in 38 of 49 (77.6%) of genes in pham
- Manual Annotations of this start: 37 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM_51 (A5), Airmid_53 (A5), Aragog_51 (A5), Archetta_51 (A5), Benedict_56 (A5), Bluefalcon_51 (A5), Bonamassa_52 (A5), Chadwick_56 (A5), Conspiracy_52 (A5), Coog_51 (A5), Cuco_52 (A5), Discoknowium_50 (A5), Dublin_52 (A5), ElTiger69_55 (A5), ForGetIt_52 (A5), George_50 (A5), Ghoulboy_55 (A5), HuhtaEnerson15_52 (A5), Jabiru_54 (A5), Jovo_52 (A5), Lev2_52 (A5), LittleCherry_52 (A5), MarysWell_52 (A5), Micasa_52 (A5), Midas2_51 (A5), Milcery_52 (A5), Naca_53 (A5), PetterN_57 (A5), Phlorence_50 (A5), PickleBack_52 (A5), Scorpia_57 (A5), Swirley_54 (A5), SydNat_55 (A5), Tarynearal_50 (A5), Theia_51 (A5), Tiger_51 (A5), UnionJack_54 (A5), Zolita_54 (A5),

Start 3:

- Found in 11 of 49 (22.4%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Expelliarmus_56 (A8),

Summary by clusters:

There are 2 clusters represented in this pham: A8, A5,

Info for manual annotations of cluster A5:

- Start number 2 was manually annotated 37 times for cluster A5.

Info for manual annotations of cluster A8:

- Start number 1 was manually annotated 10 times for cluster A8.
- Start number 3 was manually annotated 1 time for cluster A8.

Gene Information:

Gene: AgentM_51 Start: 37474, Stop: 37184, Start Num: 2

Candidate Starts for AgentM_51:

(Start: 2 @37474 has 37 MA's), (8, 37387), (10, 37339), (11, 37330), (12, 37300), (15, 37261), (16, 37252), (17, 37189),

Gene: Airmid_53 Start: 37615, Stop: 37328, Start Num: 2

Candidate Starts for Airmid_53:

(Start: 2 @37615 has 37 MA's), (8, 37528), (10, 37480), (11, 37471), (12, 37441), (15, 37402), (16, 37393),

Gene: Aragog_51 Start: 37494, Stop: 37204, Start Num: 2

Candidate Starts for Aragog_51:

(Start: 2 @37494 has 37 MA's), (8, 37407), (10, 37359), (11, 37350), (12, 37320), (15, 37281), (16, 37272), (17, 37209),

Gene: Archetta_51 Start: 37904, Stop: 37614, Start Num: 2

Candidate Starts for Archetta_51:

(Start: 2 @37904 has 37 MA's), (8, 37817), (10, 37769), (11, 37760), (12, 37730), (15, 37691), (16, 37682), (17, 37619),

Gene: Astro_58 Start: 37501, Stop: 37184, Start Num: 1

Candidate Starts for Astro_58:

(Start: 1 @37501 has 10 MA's), (Start: 3 @37486 has 1 MA's), (11, 37327), (14, 37288),

Gene: Benedict_56 Start: 37863, Stop: 37576, Start Num: 2

Candidate Starts for Benedict_56:

(Start: 2 @37863 has 37 MA's), (8, 37776), (10, 37728), (11, 37719), (12, 37689), (15, 37650), (16, 37641),

Gene: Bluefalcon_51 Start: 38046, Stop: 37759, Start Num: 2

Candidate Starts for Bluefalcon_51:

(Start: 2 @38046 has 37 MA's), (4, 38013), (8, 37959), (10, 37911), (11, 37902), (12, 37872), (15, 37833), (16, 37824),

Gene: Bonamassa_52 Start: 37923, Stop: 37630, Start Num: 2

Candidate Starts for Bonamassa_52:

(Start: 2 @37923 has 37 MA's), (6, 37869), (10, 37785), (11, 37776), (12, 37746), (13, 37743), (15, 37707), (16, 37698),

Gene: Chadwick_56 Start: 37704, Stop: 37417, Start Num: 2

Candidate Starts for Chadwick_56:

(Start: 2 @37704 has 37 MA's), (8, 37617), (10, 37569), (11, 37560), (12, 37530), (15, 37491), (16, 37482),

Gene: Conspiracy_52 Start: 37716, Stop: 37426, Start Num: 2

Candidate Starts for Conspiracy_52:

(Start: 2 @37716 has 37 MA's), (8, 37629), (10, 37581), (11, 37572), (12, 37542), (15, 37503), (16, 37494), (17, 37431),

Gene: Coog_51 Start: 37910, Stop: 37620, Start Num: 2

Candidate Starts for Coog_51:

(Start: 2 @37910 has 37 MA's), (7, 37832), (10, 37775), (11, 37766), (12, 37736), (15, 37697), (16, 37688), (17, 37625),

Gene: Cuco_52 Start: 37770, Stop: 37477, Start Num: 2

Candidate Starts for Cuco_52:

(Start: 2 @37770 has 37 MA's), (6, 37716), (9, 37656), (10, 37632), (11, 37623), (12, 37593), (15, 37554), (16, 37545), (17, 37482),

Gene: Danforth_58 Start: 37564, Stop: 37247, Start Num: 1

Candidate Starts for Danforth_58:

(Start: 1 @37564 has 10 MA's), (Start: 3 @37549 has 1 MA's), (11, 37390), (14, 37351),

Gene: Discoknowium_50 Start: 37383, Stop: 37093, Start Num: 2

Candidate Starts for Discoknowium_50:

(Start: 2 @37383 has 37 MA's), (8, 37296), (10, 37248), (11, 37239), (12, 37209), (15, 37170), (16, 37161), (17, 37098),

Gene: Dixon_57 Start: 37084, Stop: 36767, Start Num: 1

Candidate Starts for Dixon_57:

(Start: 1 @37084 has 10 MA's), (Start: 3 @37069 has 1 MA's), (11, 36910), (14, 36871),

Gene: Dublin_52 Start: 37882, Stop: 37595, Start Num: 2

Candidate Starts for Dublin_52:

(Start: 2 @37882 has 37 MA's), (4, 37849), (8, 37795), (10, 37747), (11, 37738), (12, 37708), (15, 37669), (16, 37660),

Gene: ElTiger69_55 Start: 37839, Stop: 37552, Start Num: 2

Candidate Starts for ElTiger69_55:

(Start: 2 @37839 has 37 MA's), (8, 37752), (10, 37704), (11, 37695), (12, 37665), (15, 37626), (16, 37617),

Gene: Expelliarmus_56 Start: 37273, Stop: 36971, Start Num: 3

Candidate Starts for Expelliarmus_56:

(Start: 1 @37288 has 10 MA's), (Start: 3 @37273 has 1 MA's), (11, 37114), (14, 37075),

Gene: ForGetIt_52 Start: 37741, Stop: 37451, Start Num: 2

Candidate Starts for ForGetIt_52:

(Start: 2 @37741 has 37 MA's), (8, 37654), (10, 37606), (11, 37597), (12, 37567), (15, 37528), (16, 37519), (17, 37456),

Gene: George_50 Start: 37817, Stop: 37527, Start Num: 2

Candidate Starts for George_50:

(Start: 2 @37817 has 37 MA's), (6, 37766), (10, 37682), (11, 37673), (12, 37643), (13, 37640), (15, 37604), (16, 37595),

Gene: Ghoulboy_55 Start: 38617, Stop: 38330, Start Num: 2

Candidate Starts for Ghoulboy_55:

(Start: 2 @38617 has 37 MA's), (4, 38584), (8, 38530), (10, 38482), (11, 38473), (12, 38443), (15, 38404), (16, 38395),

Gene: Groundhog_57 Start: 37479, Stop: 37162, Start Num: 1

Candidate Starts for Groundhog_57:

(Start: 1 @37479 has 10 MA's), (Start: 3 @37464 has 1 MA's), (11, 37305), (14, 37266),

Gene: HuhtaEnerson15_52 Start: 37817, Stop: 37524, Start Num: 2

Candidate Starts for HuhtaEnerson15_52:

(Start: 2 @37817 has 37 MA's), (6, 37763), (10, 37679), (11, 37670), (12, 37640), (13, 37637), (15, 37601), (16, 37592),

Gene: Jabiru_54 Start: 37718, Stop: 37431, Start Num: 2

Candidate Starts for Jabiru_54:

(Start: 2 @37718 has 37 MA's), (8, 37631), (10, 37583), (11, 37574), (12, 37544), (15, 37505), (16, 37496),

Gene: Jovo_52 Start: 37997, Stop: 37707, Start Num: 2

Candidate Starts for Jovo_52:

(Start: 2 @37997 has 37 MA's), (8, 37910), (10, 37862), (11, 37853), (12, 37823), (15, 37784), (16, 37775), (17, 37712),

Gene: Lev2_52 Start: 37629, Stop: 37339, Start Num: 2

Candidate Starts for Lev2_52:

(Start: 2 @37629 has 37 MA's), (8, 37542), (10, 37494), (11, 37485), (12, 37455), (15, 37416), (16, 37407), (17, 37344),

Gene: LittleCherry_52 Start: 37837, Stop: 37544, Start Num: 2

Candidate Starts for LittleCherry_52:

(Start: 2 @37837 has 37 MA's), (6, 37783), (10, 37699), (11, 37690), (12, 37660), (13, 37657), (15, 37621), (16, 37612),

Gene: MarysWell_52 Start: 38125, Stop: 37838, Start Num: 2

Candidate Starts for MarysWell_52:

(Start: 2 @38125 has 37 MA's), (4, 38092), (8, 38038), (10, 37990), (11, 37981), (12, 37951), (15, 37912), (16, 37903),

Gene: Micasa_52 Start: 38002, Stop: 37712, Start Num: 2

Candidate Starts for Micasa_52:

(Start: 2 @38002 has 37 MA's), (6, 37951), (10, 37867), (11, 37858), (12, 37828), (13, 37825), (15, 37789), (16, 37780),

Gene: Midas2_51 Start: 37910, Stop: 37620, Start Num: 2

Candidate Starts for Midas2_51:

(Start: 2 @37910 has 37 MA's), (7, 37832), (10, 37775), (11, 37766), (12, 37736), (15, 37697), (16, 37688), (17, 37625),

Gene: Milcery_52 Start: 37785, Stop: 37495, Start Num: 2

Candidate Starts for Milcery_52:

(Start: 2 @37785 has 37 MA's), (6, 37734), (10, 37650), (11, 37641), (12, 37611), (13, 37608), (15, 37572), (16, 37563),

Gene: Naca_53 Start: 38257, Stop: 37970, Start Num: 2

Candidate Starts for Naca_53:

(Start: 2 @38257 has 37 MA's), (8, 38170), (10, 38122), (11, 38113), (12, 38083), (15, 38044), (16, 38035),

Gene: NearlyHeadless_58 Start: 37330, Stop: 37013, Start Num: 1

Candidate Starts for NearlyHeadless_58:

(Start: 1 @37330 has 10 MA's), (Start: 3 @37315 has 1 MA's), (11, 37156), (14, 37117),

Gene: PetterN_57 Start: 37872, Stop: 37585, Start Num: 2

Candidate Starts for PetterN_57:

(Start: 2 @37872 has 37 MA's), (8, 37785), (10, 37737), (11, 37728), (12, 37698), (15, 37659), (16, 37650),

Gene: Phillis_56 Start: 36955, Stop: 36638, Start Num: 1

Candidate Starts for Phillis_56:

(Start: 1 @36955 has 10 MA's), (Start: 3 @36940 has 1 MA's), (5, 36895), (11, 36781), (14, 36742),

Gene: Phlorence_50 Start: 37374, Stop: 37084, Start Num: 2

Candidate Starts for Phlorence_50:

(Start: 2 @37374 has 37 MA's), (8, 37287), (10, 37239), (11, 37230), (12, 37200), (15, 37161), (16, 37152), (17, 37089),

Gene: PickleBack_52 Start: 37621, Stop: 37331, Start Num: 2

Candidate Starts for PickleBack_52:

(Start: 2 @37621 has 37 MA's), (8, 37534), (10, 37486), (11, 37477), (12, 37447), (15, 37408), (16, 37399), (17, 37336),

Gene: Roary_59 Start: 37549, Stop: 37232, Start Num: 1

Candidate Starts for Roary_59:

(Start: 1 @37549 has 10 MA's), (Start: 3 @37534 has 1 MA's), (11, 37375), (14, 37336),

Gene: Saintus_53 Start: 34217, Stop: 33900, Start Num: 1

Candidate Starts for Saintus_53:

(Start: 1 @34217 has 10 MA's), (Start: 3 @34202 has 1 MA's), (11, 34043), (14, 34004),

Gene: Scorpia_57 Start: 37931, Stop: 37644, Start Num: 2

Candidate Starts for Scorpia_57:

(Start: 2 @37931 has 37 MA's), (8, 37844), (10, 37796), (11, 37787), (12, 37757), (15, 37718), (16, 37709),

Gene: Smeadley_58 Start: 37410, Stop: 37093, Start Num: 1

Candidate Starts for Smeadley_58:

(Start: 1 @37410 has 10 MA's), (Start: 3 @37395 has 1 MA's), (11, 37236), (14, 37197),

Gene: Stephig9_58 Start: 37518, Stop: 37201, Start Num: 1

Candidate Starts for Stephig9_58:

(Start: 1 @37518 has 10 MA's), (Start: 3 @37503 has 1 MA's), (11, 37344), (14, 37305),

Gene: Swirley_54 Start: 37990, Stop: 37700, Start Num: 2

Candidate Starts for Swirley_54:

(Start: 2 @37990 has 37 MA's), (6, 37939), (10, 37855), (11, 37846), (12, 37816), (13, 37813), (15, 37777), (16, 37768),

Gene: SydNat_55 Start: 38626, Stop: 38339, Start Num: 2

Candidate Starts for SydNat_55:

(Start: 2 @38626 has 37 MA's), (4, 38593), (8, 38539), (10, 38491), (11, 38482), (12, 38452), (15, 38413), (16, 38404),

Gene: Tarynearal_50 Start: 37435, Stop: 37142, Start Num: 2

Candidate Starts for Tarynearal_50:

(Start: 2 @37435 has 37 MA's), (6, 37381), (10, 37297), (11, 37288), (12, 37258), (13, 37255), (15, 37219), (16, 37210),

Gene: Theia_51 Start: 38106, Stop: 37816, Start Num: 2

Candidate Starts for Theia_51:

(Start: 2 @38106 has 37 MA's), (4, 38070), (8, 38016), (10, 37968), (11, 37959), (12, 37929), (15, 37890), (16, 37881),

Gene: Tiger_51 Start: 37295, Stop: 37005, Start Num: 2

Candidate Starts for Tiger_51:

(Start: 2 @37295 has 37 MA's), (8, 37208), (10, 37160), (11, 37151), (12, 37121), (15, 37082), (16, 37073), (17, 37010),

Gene: UnionJack_54 Start: 37436, Stop: 37149, Start Num: 2

Candidate Starts for UnionJack_54:

(Start: 2 @37436 has 37 MA's), (8, 37349), (10, 37301), (11, 37292), (12, 37262), (15, 37223), (16, 37214),

Gene: Zolita_54 Start: 38630, Stop: 38343, Start Num: 2

Candidate Starts for Zolita_54:

(Start: 2 @38630 has 37 MA's), (4, 38597), (8, 38543), (10, 38495), (11, 38486), (12, 38456), (15, 38417), (16, 38408),