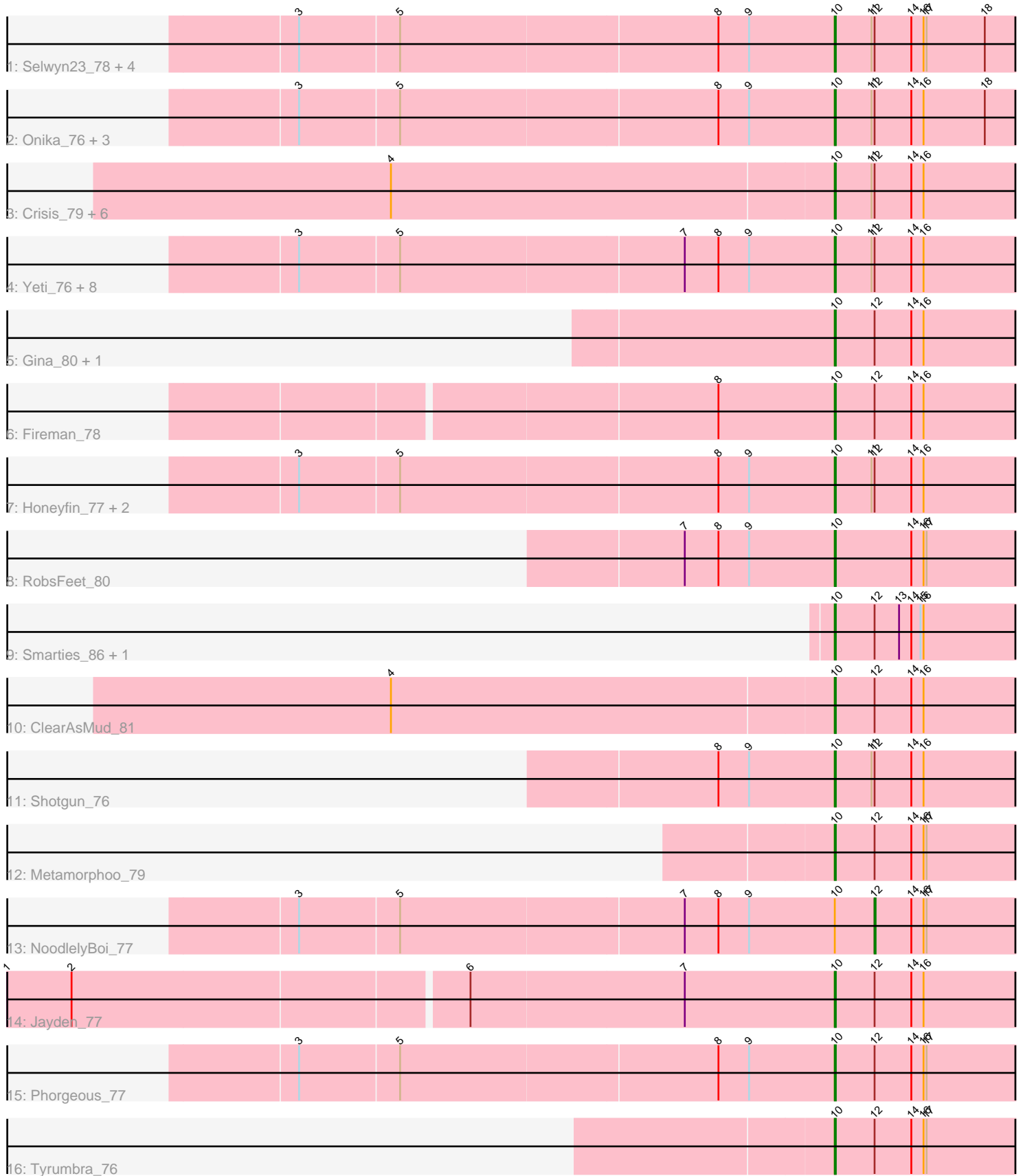


Pham 2539



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 2539 Report

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

Pham number 2539 has 41 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Selwyn23_78, Scumberland_79, Piperis_78, Busephilis_76, Antares_77
- Track 2 : Onika_76, Ramiel05_76, Kowalski_76, BrazzalePHS_76
- Track 3 : Crisis_79, KaiHaiDragon_79, CrazyRich_76, LittleFortune_79, EarickHC_79, Savannah_77, Pulchra_80
- Track 4 : Yeti_76, Jollipop_77, Cranjis_78, PiperSansNom_78, PierreOrion_76, Hermeonysus_77, Paschalis_77, Jefe_77, Quhwah_81
- Track 5 : Gina_80, Teamocil_80
- Track 6 : Fireman_78
- Track 7 : Honeyfin_77, Phrancesco_77, Ganandorf_75
- Track 8 : RobsFeet_80
- Track 9 : Smarties_86, Ariadne_86
- Track 10 : ClearAsMud_81
- Track 11 : Shotgun_76
- Track 12 : Metamorphoo_79
- Track 13 : NoodlelyBoi_77
- Track 14 : Jayden_77
- Track 15 : Phorgeous_77
- Track 16 : Tyrumbra_76

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

The start number called the most often in the published annotations is 10, it was called in 36 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_77, Ariadne_86, BrazzalePHS_76, Busephilis_76, ClearAsMud_81, Cranjis_78, CrazyRich_76, Crisis_79, EarickHC_79, Fireman_78, Ganandorf_75, Gina_80, Hermeonysus_77, Honeyfin_77, Jayden_77, Jefe_77, Jollipop_77, KaiHaiDragon_79, Kowalski_76, LittleFortune_79, Metamorphoo_79, Onika_76, Paschalis_77, Phorgeous_77, Phrancesco_77, PierreOrion_76, PiperSansNom_78, Piperis_78, Pulchra_80, Quhwah_81, Ramiel05_76, RobsFeet_80, Savannah_77, Scumberland_79, Selwyn23_78, Shotgun_76, Smarties_86, Teamocil_80, Tyrumbra_76, Yeti_76,

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

- NoodlelyBoi_77,

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

-

Summary by start number:

Start 10:

- Found in 41 of 41 (100.0%) of genes in pham
- Manual Annotations of this start: 36 of 37
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Antares_77 (EC), Ariadne_86 (EC), BrazzalePHS_76 (EC), Busephilis_76 (EC), ClearAsMud_81 (EC), Cranjis_78 (EC), CrazyRich_76 (EC), Crisis_79 (EC), EarickHC_79 (EC), Fireman_78 (EC), Ganandorf_75 (EC), Gina_80 (EC), Hermeonysus_77 (EC), Honeyfin_77 (EC), Jayden_77 (EC), Jefe_77 (EC), Jollipop_77 (EC), KaiHaiDragon_79 (EC), Kowalski_76 (EC), LittleFortune_79 (EC), Metamorphoo_79 (EC), Onika_76 (EC), Paschalis_77 (EC), Phorgeous_77 (EC), Phrancesco_77 (EC), PierreOrion_76 (EC), PiperSansNom_78 (EC), Piperis_78 (EC), Pulchra_80 (EC), Quhwah_81 (EC), Ramiel05_76 (EC), RobsFeet_80 (EC), Savannah_77 (EC), Scumberland_79 (EC), Selwyn23_78 (EC), Shotgun_76 (EC), Smarties_86 (EC), Teamocil_80 (EC), Tyumbra_76 (EC), Yeti_76 (EC),

Start 12:

- Found in 40 of 41 (97.6%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 2.5% of time when present
- Phage (with cluster) where this start called: NoodlelyBoi_77 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 10 was manually annotated 36 times for cluster EC.
- Start number 12 was manually annotated 1 time for cluster EC.

Gene Information:

Gene: Antares_77 Start: 45839, Stop: 46048, Start Num: 10

Candidate Starts for Antares_77:

(3, 45323), (5, 45419), (8, 45725), (9, 45755), (Start: 10 @45839 has 36 MA's), (11, 45875), (Start: 12 @45878 has 1 MA's), (14, 45914), (16, 45926), (17, 45929), (18, 45986),

Gene: Ariadne_86 Start: 46722, Stop: 46928, Start Num: 10

Candidate Starts for Ariadne_86:

(Start: 10 @46722 has 36 MA's), (Start: 12 @46761 has 1 MA's), (13, 46785), (14, 46797), (15, 46806), (16, 46809),

Gene: BrazzalePHS_76 Start: 45607, Stop: 45816, Start Num: 10

Candidate Starts for BrazzalePHS_76:

(3, 45091), (5, 45187), (8, 45493), (9, 45523), (Start: 10 @45607 has 36 MA's), (11, 45643), (Start: 12 @45646 has 1 MA's), (14, 45682), (16, 45694), (18, 45754),

Gene: Busephilis_76 Start: 45546, Stop: 45755, Start Num: 10

Candidate Starts for Busephilis_76:

(3, 45030), (5, 45126), (8, 45432), (9, 45462), (Start: 10 @45546 has 36 MA's), (11, 45582), (Start: 12 @45585 has 1 MA's), (14, 45621), (16, 45633), (17, 45636), (18, 45693),

Gene: ClearAsMud_81 Start: 46388, Stop: 46597, Start Num: 10

Candidate Starts for ClearAsMud_81:

(4, 45959), (Start: 10 @46388 has 36 MA's), (Start: 12 @46427 has 1 MA's), (14, 46463), (16, 46475),

Gene: Cranjis_78 Start: 45800, Stop: 46009, Start Num: 10

Candidate Starts for Cranjis_78:

(3, 45284), (5, 45380), (7, 45653), (8, 45686), (9, 45716), (Start: 10 @45800 has 36 MA's), (11, 45836), (Start: 12 @45839 has 1 MA's), (14, 45875), (16, 45887),

Gene: CrazyRich_76 Start: 45861, Stop: 46070, Start Num: 10

Candidate Starts for CrazyRich_76:

(4, 45432), (Start: 10 @45861 has 36 MA's), (11, 45897), (Start: 12 @45900 has 1 MA's), (14, 45936), (16, 45948),

Gene: Crisis_79 Start: 46307, Stop: 46516, Start Num: 10

Candidate Starts for Crisis_79:

(4, 45878), (Start: 10 @46307 has 36 MA's), (11, 46343), (Start: 12 @46346 has 1 MA's), (14, 46382), (16, 46394),

Gene: EarickHC_79 Start: 46229, Stop: 46438, Start Num: 10

Candidate Starts for EarickHC_79:

(4, 45800), (Start: 10 @46229 has 36 MA's), (11, 46265), (Start: 12 @46268 has 1 MA's), (14, 46304), (16, 46316),

Gene: Fireman_78 Start: 46882, Stop: 47088, Start Num: 10

Candidate Starts for Fireman_78:

(8, 46768), (Start: 10 @46882 has 36 MA's), (Start: 12 @46921 has 1 MA's), (14, 46957), (16, 46969),

Gene: Ganandorf_75 Start: 45188, Stop: 45397, Start Num: 10

Candidate Starts for Ganandorf_75:

(3, 44672), (5, 44768), (8, 45074), (9, 45104), (Start: 10 @45188 has 36 MA's), (11, 45224), (Start: 12 @45227 has 1 MA's), (14, 45263), (16, 45275),

Gene: Gina_80 Start: 45128, Stop: 45337, Start Num: 10

Candidate Starts for Gina_80:

(Start: 10 @45128 has 36 MA's), (Start: 12 @45167 has 1 MA's), (14, 45203), (16, 45215),

Gene: Hermeonysus_77 Start: 45515, Stop: 45724, Start Num: 10

Candidate Starts for Hermeonysus_77:

(3, 44999), (5, 45095), (7, 45368), (8, 45401), (9, 45431), (Start: 10 @45515 has 36 MA's), (11, 45551), (Start: 12 @45554 has 1 MA's), (14, 45590), (16, 45602),

Gene: Honeyfin_77 Start: 45348, Stop: 45557, Start Num: 10

Candidate Starts for Honeyfin_77:

(3, 44832), (5, 44928), (8, 45234), (9, 45264), (Start: 10 @45348 has 36 MA's), (11, 45384), (Start: 12 @45387 has 1 MA's), (14, 45423), (16, 45435),

Gene: Jayden_77 Start: 45554, Stop: 45763, Start Num: 10

Candidate Starts for Jayden_77:

(1, 44762), (2, 44825), (6, 45200), (7, 45407), (Start: 10 @45554 has 36 MA's), (Start: 12 @45593 has 1 MA's), (14, 45629), (16, 45641),

Gene: Jefe_77 Start: 45576, Stop: 45785, Start Num: 10

Candidate Starts for Jefe_77:

(3, 45060), (5, 45156), (7, 45429), (8, 45462), (9, 45492), (Start: 10 @45576 has 36 MA's), (11, 45612), (Start: 12 @45615 has 1 MA's), (14, 45651), (16, 45663),

Gene: Jollipop_77 Start: 45965, Stop: 46174, Start Num: 10

Candidate Starts for Jollipop_77:

(3, 45449), (5, 45545), (7, 45818), (8, 45851), (9, 45881), (Start: 10 @45965 has 36 MA's), (11, 46001), (Start: 12 @46004 has 1 MA's), (14, 46040), (16, 46052),

Gene: KaiHaiDragon_79 Start: 46229, Stop: 46438, Start Num: 10

Candidate Starts for KaiHaiDragon_79:

(4, 45800), (Start: 10 @46229 has 36 MA's), (11, 46265), (Start: 12 @46268 has 1 MA's), (14, 46304), (16, 46316),

Gene: Kowalski_76 Start: 45602, Stop: 45811, Start Num: 10

Candidate Starts for Kowalski_76:

(3, 45086), (5, 45182), (8, 45488), (9, 45518), (Start: 10 @45602 has 36 MA's), (11, 45638), (Start: 12 @45641 has 1 MA's), (14, 45677), (16, 45689), (18, 45749),

Gene: LittleFortune_79 Start: 46148, Stop: 46357, Start Num: 10

Candidate Starts for LittleFortune_79:

(4, 45719), (Start: 10 @46148 has 36 MA's), (11, 46184), (Start: 12 @46187 has 1 MA's), (14, 46223), (16, 46235),

Gene: Metamorphoo_79 Start: 46877, Stop: 47086, Start Num: 10

Candidate Starts for Metamorphoo_79:

(Start: 10 @46877 has 36 MA's), (Start: 12 @46916 has 1 MA's), (14, 46952), (16, 46964), (17, 46967),

Gene: NoodlelyBoi_77 Start: 45987, Stop: 46157, Start Num: 12

Candidate Starts for NoodlelyBoi_77:

(3, 45432), (5, 45528), (7, 45801), (8, 45834), (9, 45864), (Start: 10 @45948 has 36 MA's), (Start: 12 @45987 has 1 MA's), (14, 46023), (16, 46035), (17, 46038),

Gene: Onika_76 Start: 45605, Stop: 45814, Start Num: 10

Candidate Starts for Onika_76:

(3, 45089), (5, 45185), (8, 45491), (9, 45521), (Start: 10 @45605 has 36 MA's), (11, 45641), (Start: 12 @45644 has 1 MA's), (14, 45680), (16, 45692), (18, 45752),

Gene: Paschalis_77 Start: 45630, Stop: 45839, Start Num: 10

Candidate Starts for Paschalis_77:

(3, 45114), (5, 45210), (7, 45483), (8, 45516), (9, 45546), (Start: 10 @45630 has 36 MA's), (11, 45666), (Start: 12 @45669 has 1 MA's), (14, 45705), (16, 45717),

Gene: Phorgeous_77 Start: 45425, Stop: 45634, Start Num: 10

Candidate Starts for Phorgeous_77:

(3, 44909), (5, 45005), (8, 45311), (9, 45341), (Start: 10 @45425 has 36 MA's), (Start: 12 @45464 has 1 MA's), (14, 45500), (16, 45512), (17, 45515),

Gene: Phrancesco_77 Start: 45736, Stop: 45945, Start Num: 10

Candidate Starts for Phrancesco_77:

(3, 45220), (5, 45316), (8, 45622), (9, 45652), (Start: 10 @45736 has 36 MA's), (11, 45772), (Start: 12 @45775 has 1 MA's), (14, 45811), (16, 45823),

Gene: PierreOrion_76 Start: 45415, Stop: 45624, Start Num: 10

Candidate Starts for PierreOrion_76:

(3, 44899), (5, 44995), (7, 45268), (8, 45301), (9, 45331), (Start: 10 @45415 has 36 MA's), (11, 45451), (Start: 12 @45454 has 1 MA's), (14, 45490), (16, 45502),

Gene: PiperSansNom_78 Start: 45915, Stop: 46124, Start Num: 10

Candidate Starts for PiperSansNom_78:

(3, 45399), (5, 45495), (7, 45768), (8, 45801), (9, 45831), (Start: 10 @45915 has 36 MA's), (11, 45951), (Start: 12 @45954 has 1 MA's), (14, 45990), (16, 46002),

Gene: Piperis_78 Start: 45538, Stop: 45747, Start Num: 10

Candidate Starts for Piperis_78:

(3, 45022), (5, 45118), (8, 45424), (9, 45454), (Start: 10 @45538 has 36 MA's), (11, 45574), (Start: 12 @45577 has 1 MA's), (14, 45613), (16, 45625), (17, 45628), (18, 45685),

Gene: Pulchra_80 Start: 46632, Stop: 46841, Start Num: 10

Candidate Starts for Pulchra_80:

(4, 46203), (Start: 10 @46632 has 36 MA's), (11, 46668), (Start: 12 @46671 has 1 MA's), (14, 46707), (16, 46719),

Gene: Quhwah_81 Start: 46229, Stop: 46438, Start Num: 10

Candidate Starts for Quhwah_81:

(3, 45713), (5, 45809), (7, 46082), (8, 46115), (9, 46145), (Start: 10 @46229 has 36 MA's), (11, 46265), (Start: 12 @46268 has 1 MA's), (14, 46304), (16, 46316),

Gene: Ramiel05_76 Start: 45602, Stop: 45811, Start Num: 10

Candidate Starts for Ramiel05_76:

(3, 45086), (5, 45182), (8, 45488), (9, 45518), (Start: 10 @45602 has 36 MA's), (11, 45638), (Start: 12 @45641 has 1 MA's), (14, 45677), (16, 45689), (18, 45749),

Gene: RobsFeet_80 Start: 46624, Stop: 46833, Start Num: 10

Candidate Starts for RobsFeet_80:

(7, 46477), (8, 46510), (9, 46540), (Start: 10 @46624 has 36 MA's), (14, 46699), (16, 46711), (17, 46714),

Gene: Savannah_77 Start: 46351, Stop: 46560, Start Num: 10

Candidate Starts for Savannah_77:

(4, 45922), (Start: 10 @46351 has 36 MA's), (11, 46387), (Start: 12 @46390 has 1 MA's), (14, 46426), (16, 46438),

Gene: Scumberland_79 Start: 45854, Stop: 46063, Start Num: 10

Candidate Starts for Scumberland_79:

(3, 45338), (5, 45434), (8, 45740), (9, 45770), (Start: 10 @45854 has 36 MA's), (11, 45890), (Start: 12 @45893 has 1 MA's), (14, 45929), (16, 45941), (17, 45944), (18, 46001),

Gene: Selwyn23_78 Start: 45765, Stop: 45974, Start Num: 10

Candidate Starts for Selwyn23_78:

(3, 45249), (5, 45345), (8, 45651), (9, 45681), (Start: 10 @45765 has 36 MA's), (11, 45801), (Start: 12 @45804 has 1 MA's), (14, 45840), (16, 45852), (17, 45855), (18, 45912),

Gene: Shotgun_76 Start: 45104, Stop: 45313, Start Num: 10

Candidate Starts for Shotgun_76:

(8, 44990), (9, 45020), (Start: 10 @45104 has 36 MA's), (11, 45140), (Start: 12 @45143 has 1 MA's), (14, 45179), (16, 45191),

Gene: Smarties_86 Start: 46719, Stop: 46925, Start Num: 10

Candidate Starts for Smarties_86:

(Start: 10 @46719 has 36 MA's), (Start: 12 @46758 has 1 MA's), (13, 46782), (14, 46794), (15, 46803), (16, 46806),

Gene: Teamocil_80 Start: 45221, Stop: 45430, Start Num: 10

Candidate Starts for Teamocil_80:

(Start: 10 @45221 has 36 MA's), (Start: 12 @45260 has 1 MA's), (14, 45296), (16, 45308),

Gene: Tyumbra_76 Start: 46795, Stop: 47004, Start Num: 10

Candidate Starts for Tyumbra_76:

(Start: 10 @46795 has 36 MA's), (Start: 12 @46834 has 1 MA's), (14, 46870), (16, 46882), (17, 46885),

Gene: Yeti_76 Start: 45136, Stop: 45345, Start Num: 10

Candidate Starts for Yeti_76:

(3, 44620), (5, 44716), (7, 44989), (8, 45022), (9, 45052), (Start: 10 @45136 has 36 MA's), (11, 45172), (Start: 12 @45175 has 1 MA's), (14, 45211), (16, 45223),