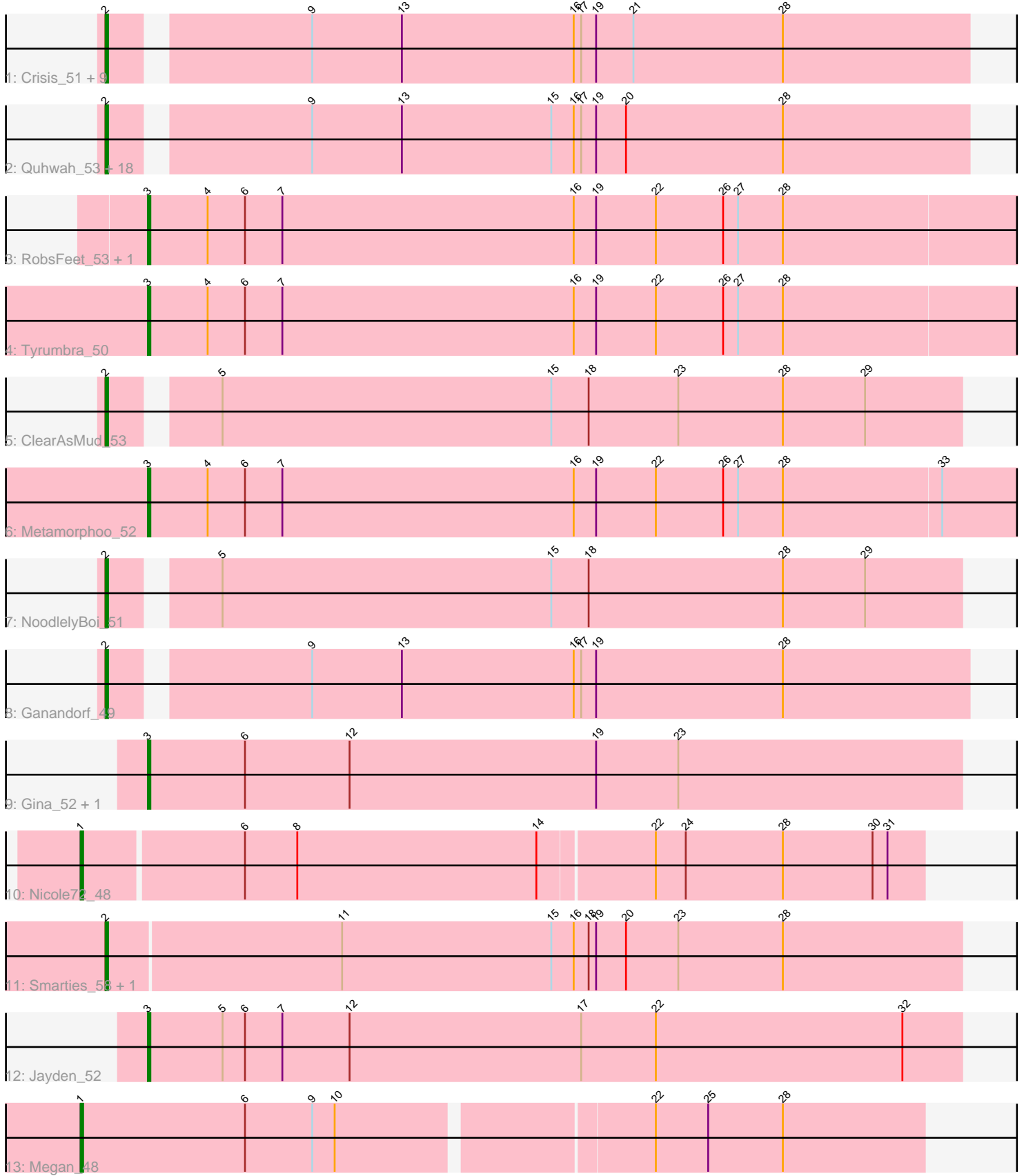


Pham 2421



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 2421 Report

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

Pham number 2421 has 43 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Crisis_51, Piperis_50, Scumberland_51, LittleFortune_51, Pulchra_51, Cranjis_51, Savannah_49, KaiHaiDragon_50, EarickHC_50, Selwyn23_51
- Track 2 : Quhwah_53, BrazzalePHS_49, Hermeonysus_49, Paschalis_49, CrazyRich_49, Yeti_50, Busephilis_49, Jollipop_50, Phrancesco_50, Antares_50, Phorgeous_49, PiperSansNom_50, Honeyfin_51, Kowalski_49, Ramiel05_49, Onika_49, Jefe_50, Shotgun_49, PierreOrion_50
- Track 3 : RobsFeet_53, Fireman_52
- Track 4 : Tyumbra_50
- Track 5 : ClearAsMud_53
- Track 6 : Metamorphoo_52
- Track 7 : NoodlelyBoi_51
- Track 8 : Ganandorf_49
- Track 9 : Gina_52, Teamocil_52
- Track 10 : Nicole72_48
- Track 11 : Smarties_58, Ariadne_58
- Track 12 : Jayden_52
- Track 13 : Megan_48

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 30 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_50, Ariadne_58, BrazzalePHS_49, Busephilis_49, ClearAsMud_53, Cranjis_51, CrazyRich_49, Crisis_51, EarickHC_50, Ganandorf_49, Hermeonysus_49, Honeyfin_51, Jefe_50, Jollipop_50, KaiHaiDragon_50, Kowalski_49, LittleFortune_51, NoodlelyBoi_51, Onika_49, Paschalis_49, Phorgeous_49, Phrancesco_50, PierreOrion_50, PiperSansNom_50, Piperis_50, Pulchra_51, Quhwah_53, Ramiel05_49, Savannah_49, Scumberland_51, Selwyn23_51, Shotgun_49, Smarties_58, Yeti_50,

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

-

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

- Fireman_52, Gina_52, Jayden_52, Megan_48, Metamorphoo_52, Nicole72_48, RobsFeet_53, Teamocil_52, Tyumbra_50,

Summary by start number:

Start 1:

- Found in 2 of 43 (4.7%) of genes in pham
- Manual Annotations of this start: 2 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_48 (EC), Nicole72_48 (EC),

Start 2:

- Found in 34 of 43 (79.1%) of genes in pham
- Manual Annotations of this start: 30 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_50 (EC), Ariadne_58 (EC), BrazzalePHS_49 (EC), Busephilis_49 (EC), ClearAsMud_53 (EC), Cranjis_51 (EC), CrazyRich_49 (EC), Crisis_51 (EC), EarickHC_50 (EC), Ganandorf_49 (EC), Hermeonysus_49 (EC), Honeyfin_51 (EC), Jefe_50 (EC), Jollipop_50 (EC), KaiHaiDragon_50 (EC), Kowalski_49 (EC), LittleFortune_51 (EC), NoodlelyBoi_51 (EC), Onika_49 (EC), Paschalis_49 (EC), Phorgeous_49 (EC), Phrancesco_50 (EC), PierreOrion_50 (EC), PiperSansNom_50 (EC), Piperis_50 (EC), Pulchra_51 (EC), Quhwah_53 (EC), Ramiel05_49 (EC), Savannah_49 (EC), Scumberland_51 (EC), Selwyn23_51 (EC), Shotgun_49 (EC), Smarties_58 (EC), Yeti_50 (EC),

Start 3:

- Found in 7 of 43 (16.3%) of genes in pham
- Manual Annotations of this start: 7 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fireman_52 (EC), Gina_52 (EC), Jayden_52 (EC), Metamorphoo_52 (EC), RobsFeet_53 (EC), Teamocil_52 (EC), Tyumbra_50 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 1 was manually annotated 2 times for cluster EC.
- Start number 2 was manually annotated 30 times for cluster EC.
- Start number 3 was manually annotated 7 times for cluster EC.

Gene Information:

Gene: Antares_50 Start: 34657, Stop: 34992, Start Num: 2

Candidate Starts for Antares_50:

(Start: 2 @34657 has 30 MA's), (9, 34729), (13, 34765), (15, 34825), (16, 34834), (17, 34837), (19, 34843), (20, 34855), (28, 34918),

Gene: Ariadne_58 Start: 36184, Stop: 36525, Start Num: 2

Candidate Starts for Ariadne_58:

(Start: 2 @36184 has 30 MA's), (11, 36277), (15, 36361), (16, 36370), (18, 36376), (19, 36379), (20, 36391), (23, 36412), (28, 36454),

Gene: BrazzalePHS_49 Start: 34453, Stop: 34788, Start Num: 2

Candidate Starts for BrazzalePHS_49:

(Start: 2 @34453 has 30 MA's), (9, 34525), (13, 34561), (15, 34621), (16, 34630), (17, 34633), (19, 34639), (20, 34651), (28, 34714),

Gene: Busephilis_49 Start: 34393, Stop: 34728, Start Num: 2

Candidate Starts for Busephilis_49:

(Start: 2 @34393 has 30 MA's), (9, 34465), (13, 34501), (15, 34561), (16, 34570), (17, 34573), (19, 34579), (20, 34591), (28, 34654),

Gene: ClearAsMud_53 Start: 34863, Stop: 35195, Start Num: 2

Candidate Starts for ClearAsMud_53:

(Start: 2 @34863 has 30 MA's), (5, 34899), (15, 35031), (18, 35046), (23, 35082), (28, 35124), (29, 35157),

Gene: Cranjis_51 Start: 34612, Stop: 34947, Start Num: 2

Candidate Starts for Cranjis_51:

(Start: 2 @34612 has 30 MA's), (9, 34684), (13, 34720), (16, 34789), (17, 34792), (19, 34798), (21, 34813), (28, 34873),

Gene: CrazyRich_49 Start: 34421, Stop: 34756, Start Num: 2

Candidate Starts for CrazyRich_49:

(Start: 2 @34421 has 30 MA's), (9, 34493), (13, 34529), (15, 34589), (16, 34598), (17, 34601), (19, 34607), (20, 34619), (28, 34682),

Gene: Crisis_51 Start: 34412, Stop: 34747, Start Num: 2

Candidate Starts for Crisis_51:

(Start: 2 @34412 has 30 MA's), (9, 34484), (13, 34520), (16, 34589), (17, 34592), (19, 34598), (21, 34613), (28, 34673),

Gene: EarickHC_50 Start: 34335, Stop: 34670, Start Num: 2

Candidate Starts for EarickHC_50:

(Start: 2 @34335 has 30 MA's), (9, 34407), (13, 34443), (16, 34512), (17, 34515), (19, 34521), (21, 34536), (28, 34596),

Gene: Fireman_52 Start: 36245, Stop: 36595, Start Num: 3

Candidate Starts for Fireman_52:

(Start: 3 @36245 has 7 MA's), (4, 36269), (6, 36284), (7, 36299), (16, 36416), (19, 36425), (22, 36449), (26, 36476), (27, 36482), (28, 36500),

Gene: Ganandorf_49 Start: 34474, Stop: 34809, Start Num: 2

Candidate Starts for Ganandorf_49:

(Start: 2 @34474 has 30 MA's), (9, 34546), (13, 34582), (16, 34651), (17, 34654), (19, 34660), (28, 34735),

Gene: Gina_52 Start: 34380, Stop: 34706, Start Num: 3

Candidate Starts for Gina_52:

(Start: 3 @34380 has 7 MA's), (6, 34419), (12, 34461), (19, 34560), (23, 34593),

Gene: Hermeonysus_49 Start: 34341, Stop: 34676, Start Num: 2
Candidate Starts for Hermeonysus_49:
(Start: 2 @34341 has 30 MA's), (9, 34413), (13, 34449), (15, 34509), (16, 34518), (17, 34521), (19, 34527), (20, 34539), (28, 34602),

Gene: Honeyfin_51 Start: 34662, Stop: 34997, Start Num: 2
Candidate Starts for Honeyfin_51:
(Start: 2 @34662 has 30 MA's), (9, 34734), (13, 34770), (15, 34830), (16, 34839), (17, 34842), (19, 34848), (20, 34860), (28, 34923),

Gene: Jayden_52 Start: 35061, Stop: 35387, Start Num: 3
Candidate Starts for Jayden_52:
(Start: 3 @35061 has 7 MA's), (5, 35091), (6, 35100), (7, 35115), (12, 35142), (17, 35235), (22, 35265), (32, 35364),

Gene: Jefe_50 Start: 34399, Stop: 34734, Start Num: 2
Candidate Starts for Jefe_50:
(Start: 2 @34399 has 30 MA's), (9, 34471), (13, 34507), (15, 34567), (16, 34576), (17, 34579), (19, 34585), (20, 34597), (28, 34660),

Gene: Jollipop_50 Start: 34738, Stop: 35073, Start Num: 2
Candidate Starts for Jollipop_50:
(Start: 2 @34738 has 30 MA's), (9, 34810), (13, 34846), (15, 34906), (16, 34915), (17, 34918), (19, 34924), (20, 34936), (28, 34999),

Gene: KaiHaiDragon_50 Start: 34335, Stop: 34670, Start Num: 2
Candidate Starts for KaiHaiDragon_50:
(Start: 2 @34335 has 30 MA's), (9, 34407), (13, 34443), (16, 34512), (17, 34515), (19, 34521), (21, 34536), (28, 34596),

Gene: Kowalski_49 Start: 34448, Stop: 34783, Start Num: 2
Candidate Starts for Kowalski_49:
(Start: 2 @34448 has 30 MA's), (9, 34520), (13, 34556), (15, 34616), (16, 34625), (17, 34628), (19, 34634), (20, 34646), (28, 34709),

Gene: LittleFortune_51 Start: 34704, Stop: 35039, Start Num: 2
Candidate Starts for LittleFortune_51:
(Start: 2 @34704 has 30 MA's), (9, 34776), (13, 34812), (16, 34881), (17, 34884), (19, 34890), (21, 34905), (28, 34965),

Gene: Megan_48 Start: 37855, Stop: 38184, Start Num: 1
Candidate Starts for Megan_48:
(Start: 1 @37855 has 2 MA's), (6, 37921), (9, 37948), (10, 37957), (22, 38077), (25, 38098), (28, 38128),

Gene: Metamorphoo_52 Start: 35507, Stop: 35857, Start Num: 3
Candidate Starts for Metamorphoo_52:
(Start: 3 @35507 has 7 MA's), (4, 35531), (6, 35546), (7, 35561), (16, 35678), (19, 35687), (22, 35711), (26, 35738), (27, 35744), (28, 35762), (33, 35825),

Gene: Nicole72_48 Start: 38252, Stop: 38584, Start Num: 1
Candidate Starts for Nicole72_48:

(Start: 1 @38252 has 2 MA's), (6, 38315), (8, 38336), (14, 38432), (22, 38477), (24, 38489), (28, 38528), (30, 38564), (31, 38570),

Gene: NoodlelyBoi_51 Start: 35075, Stop: 35407, Start Num: 2

Candidate Starts for NoodlelyBoi_51:

(Start: 2 @35075 has 30 MA's), (5, 35111), (15, 35243), (18, 35258), (28, 35336), (29, 35369),

Gene: Onika_49 Start: 34423, Stop: 34758, Start Num: 2

Candidate Starts for Onika_49:

(Start: 2 @34423 has 30 MA's), (9, 34495), (13, 34531), (15, 34591), (16, 34600), (17, 34603), (19, 34609), (20, 34621), (28, 34684),

Gene: Paschalis_49 Start: 34430, Stop: 34765, Start Num: 2

Candidate Starts for Paschalis_49:

(Start: 2 @34430 has 30 MA's), (9, 34502), (13, 34538), (15, 34598), (16, 34607), (17, 34610), (19, 34616), (20, 34628), (28, 34691),

Gene: Phorgeous_49 Start: 34293, Stop: 34628, Start Num: 2

Candidate Starts for Phorgeous_49:

(Start: 2 @34293 has 30 MA's), (9, 34365), (13, 34401), (15, 34461), (16, 34470), (17, 34473), (19, 34479), (20, 34491), (28, 34554),

Gene: Phrancesco_50 Start: 34583, Stop: 34918, Start Num: 2

Candidate Starts for Phrancesco_50:

(Start: 2 @34583 has 30 MA's), (9, 34655), (13, 34691), (15, 34751), (16, 34760), (17, 34763), (19, 34769), (20, 34781), (28, 34844),

Gene: PierreOrion_50 Start: 34597, Stop: 34932, Start Num: 2

Candidate Starts for PierreOrion_50:

(Start: 2 @34597 has 30 MA's), (9, 34669), (13, 34705), (15, 34765), (16, 34774), (17, 34777), (19, 34783), (20, 34795), (28, 34858),

Gene: PiperSansNom_50 Start: 34737, Stop: 35072, Start Num: 2

Candidate Starts for PiperSansNom_50:

(Start: 2 @34737 has 30 MA's), (9, 34809), (13, 34845), (15, 34905), (16, 34914), (17, 34917), (19, 34923), (20, 34935), (28, 34998),

Gene: Piperis_50 Start: 34416, Stop: 34751, Start Num: 2

Candidate Starts for Piperis_50:

(Start: 2 @34416 has 30 MA's), (9, 34488), (13, 34524), (16, 34593), (17, 34596), (19, 34602), (21, 34617), (28, 34677),

Gene: Pulchra_51 Start: 34813, Stop: 35148, Start Num: 2

Candidate Starts for Pulchra_51:

(Start: 2 @34813 has 30 MA's), (9, 34885), (13, 34921), (16, 34990), (17, 34993), (19, 34999), (21, 35014), (28, 35074),

Gene: Quhwah_53 Start: 35045, Stop: 35380, Start Num: 2

Candidate Starts for Quhwah_53:

(Start: 2 @35045 has 30 MA's), (9, 35117), (13, 35153), (15, 35213), (16, 35222), (17, 35225), (19, 35231), (20, 35243), (28, 35306),

Gene: Ramiel05_49 Start: 34448, Stop: 34783, Start Num: 2

Candidate Starts for Ramiel05_49:

(Start: 2 @34448 has 30 MA's), (9, 34520), (13, 34556), (15, 34616), (16, 34625), (17, 34628), (19, 34634), (20, 34646), (28, 34709),

Gene: RobsFeet_53 Start: 35806, Stop: 36156, Start Num: 3

Candidate Starts for RobsFeet_53:

(Start: 3 @35806 has 7 MA's), (4, 35830), (6, 35845), (7, 35860), (16, 35977), (19, 35986), (22, 36010), (26, 36037), (27, 36043), (28, 36061),

Gene: Savannah_49 Start: 34475, Stop: 34810, Start Num: 2

Candidate Starts for Savannah_49:

(Start: 2 @34475 has 30 MA's), (9, 34547), (13, 34583), (16, 34652), (17, 34655), (19, 34661), (21, 34676), (28, 34736),

Gene: Scumberland_51 Start: 34670, Stop: 35005, Start Num: 2

Candidate Starts for Scumberland_51:

(Start: 2 @34670 has 30 MA's), (9, 34742), (13, 34778), (16, 34847), (17, 34850), (19, 34856), (21, 34871), (28, 34931),

Gene: Selwyn23_51 Start: 34647, Stop: 34982, Start Num: 2

Candidate Starts for Selwyn23_51:

(Start: 2 @34647 has 30 MA's), (9, 34719), (13, 34755), (16, 34824), (17, 34827), (19, 34833), (21, 34848), (28, 34908),

Gene: Shotgun_49 Start: 34274, Stop: 34609, Start Num: 2

Candidate Starts for Shotgun_49:

(Start: 2 @34274 has 30 MA's), (9, 34346), (13, 34382), (15, 34442), (16, 34451), (17, 34454), (19, 34460), (20, 34472), (28, 34535),

Gene: Smarties_58 Start: 36184, Stop: 36525, Start Num: 2

Candidate Starts for Smarties_58:

(Start: 2 @36184 has 30 MA's), (11, 36277), (15, 36361), (16, 36370), (18, 36376), (19, 36379), (20, 36391), (23, 36412), (28, 36454),

Gene: Teamocil_52 Start: 34479, Stop: 34805, Start Num: 3

Candidate Starts for Teamocil_52:

(Start: 3 @34479 has 7 MA's), (6, 34518), (12, 34560), (19, 34659), (23, 34692),

Gene: Tyrumbra_50 Start: 35585, Stop: 35935, Start Num: 3

Candidate Starts for Tyrumbra_50:

(Start: 3 @35585 has 7 MA's), (4, 35609), (6, 35624), (7, 35639), (16, 35756), (19, 35765), (22, 35789), (26, 35816), (27, 35822), (28, 35840),

Gene: Yeti_50 Start: 34449, Stop: 34784, Start Num: 2

Candidate Starts for Yeti_50:

(Start: 2 @34449 has 30 MA's), (9, 34521), (13, 34557), (15, 34617), (16, 34626), (17, 34629), (19, 34635), (20, 34647), (28, 34710),