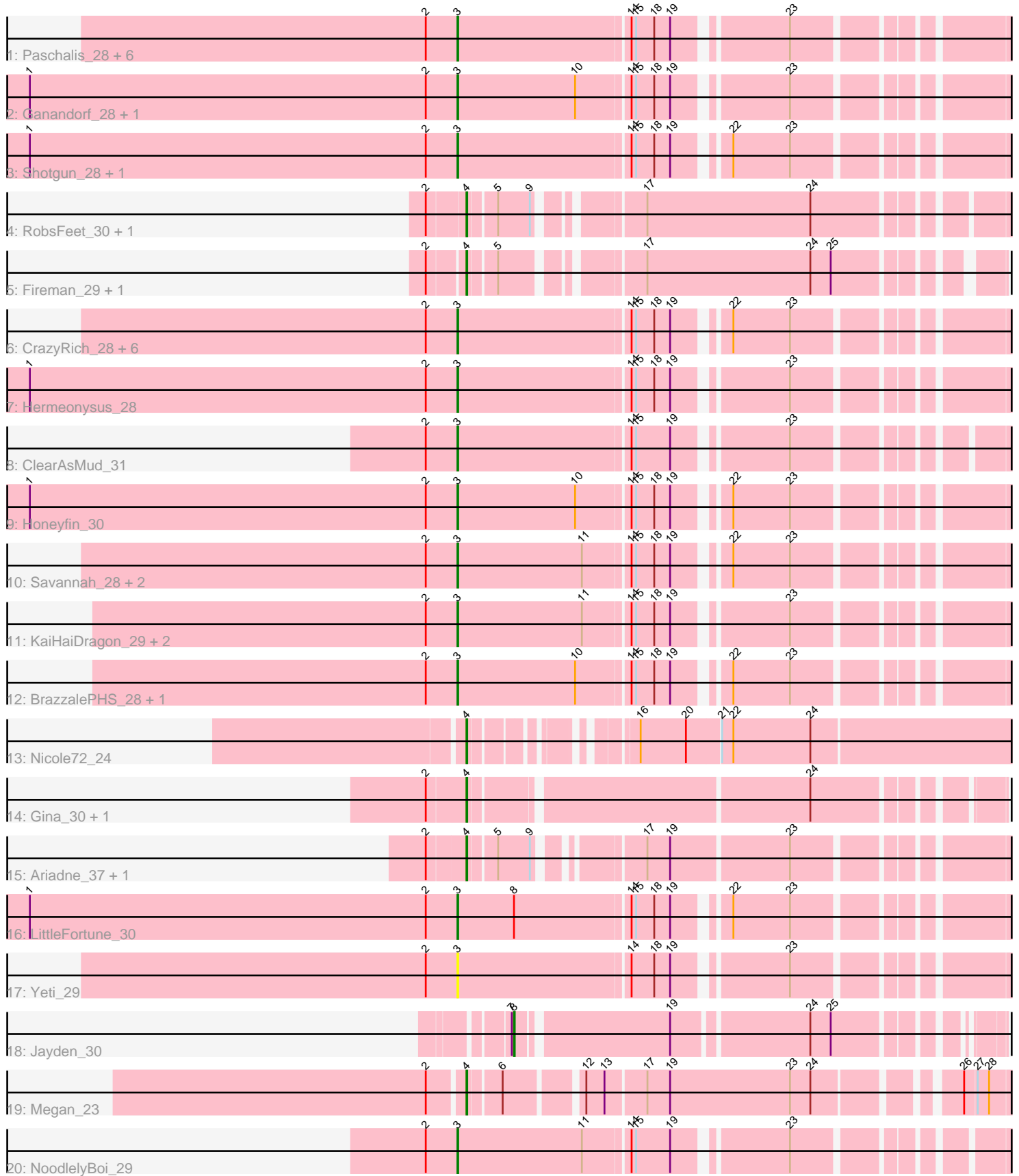


Pham 85974



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 85974 Report

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

Pham number 85974 has 43 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Paschalis_28, Scumberland_30, PierreOrion_29, Antares_29, PiperSansNom_29, Quhwah_32, Jollipop_29
- Track 2 : Ganandorf_28, Busephilis_28
- Track 3 : Shotgun_28, Jefe_29
- Track 4 : RobsFeet_30, Metamorphoo_29
- Track 5 : Fireman_29, Tyumbra_27
- Track 6 : CrazyRich_28, Pulchra_30, Selwyn23_30, Cranjis_30, Phorgeous_28, Piperis_29, Phrancesco_29
- Track 7 : Hermeonysus_28
- Track 8 : ClearAsMud_31
- Track 9 : Honeyfin_30
- Track 10 : Savannah_28, Ramiel05_28, Kowalski_28
- Track 11 : KaiHaiDragon_29, Crisis_30, EarickHC_29
- Track 12 : BrazzalePHS_28, Onika_28
- Track 13 : Nicole72_24
- Track 14 : Gina_30, Teamocil_30
- Track 15 : Ariadne_37, Smarties_37
- Track 16 : LittleFortune_30
- Track 17 : Yeti_29
- Track 18 : Jayden_30
- Track 19 : Megan_23
- Track 20 : NoodlelyBoi_29

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

The start number called the most often in the published annotations is 3, it was called in 28 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_29, BrazzalePHS_28, Busephilis_28, ClearAsMud_31, Cranjis_30, CrazyRich_28, Crisis_30, EarickHC_29, Ganandorf_28, Hermeonysus_28, Honeyfin_30, Jefe_29, Jollipop_29, KaiHaiDragon_29, Kowalski_28, LittleFortune_30, NoodlelyBoi_29, Onika_28, Paschalis_28, Phorgeous_28, Phrancesco_29, PierreOrion_29, PiperSansNom_29, Piperis_29, Pulchra_30,

Quhwah_32, Ramiel05_28, Savannah_28, Scumberland_30, Selwyn23_30, Shotgun_28, Yeti_29,

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

-

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

- Ariadne_37, Fireman_29, Gina_30, Jayden_30, Megan_23, Metamorphoo_29, Nicole72_24, RobsFeet_30, Smarties_37, Teamocil_30, Tyrumbra_27,

Summary by start number:

Start 3:

- Found in 32 of 43 (74.4%) of genes in pham
- Manual Annotations of this start: 28 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_29 (EC), BrazzalePHS_28 (EC), Busephilis_28 (EC), ClearAsMud_31 (EC), Cranjis_30 (EC), CrazyRich_28 (EC), Crisis_30 (EC), EarickHC_29 (EC), Ganandorf_28 (EC), Hermeonysus_28 (EC), Honeyfin_30 (EC), Jefe_29 (EC), Jollipop_29 (EC), KaiHaiDragon_29 (EC), Kowalski_28 (EC), LittleFortune_30 (EC), NoodlelyBoi_29 (EC), Onika_28 (EC), Paschalis_28 (EC), Phorgeous_28 (EC), Phrancesco_29 (EC), PierreOrion_29 (EC), PiperSansNom_29 (EC), Piperis_29 (EC), Pulchra_30 (EC), Quhwah_32 (EC), Ramiel05_28 (EC), Savannah_28 (EC), Scumberland_30 (EC), Selwyn23_30 (EC), Shotgun_28 (EC), Yeti_29 (EC),

Start 4:

- Found in 10 of 43 (23.3%) of genes in pham
- Manual Annotations of this start: 10 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariadne_37 (EC), Fireman_29 (EC), Gina_30 (EC), Megan_23 (EC), Metamorphoo_29 (EC), Nicole72_24 (EC), RobsFeet_30 (EC), Smarties_37 (EC), Teamocil_30 (EC), Tyrumbra_27 (EC),

Start 8:

- Found in 2 of 43 (4.7%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Jayden_30 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 3 was manually annotated 28 times for cluster EC.
- Start number 4 was manually annotated 10 times for cluster EC.
- Start number 8 was manually annotated 1 time for cluster EC.

Gene Information:

Gene: Antares_29 Start: 16719, Stop: 17513, Start Num: 3

Candidate Starts for Antares_29:

(2, 16677), (Start: 3 @16719 has 28 MA's), (14, 16941), (15, 16947), (18, 16971), (19, 16992), (23, 17124),

Gene: Ariadne_37 Start: 18446, Stop: 19201, Start Num: 4

Candidate Starts for Ariadne_37:

(2, 18398), (Start: 4 @18446 has 10 MA's), (5, 18479), (9, 18521), (17, 18632), (19, 18662), (23, 18812),

Gene: BrazzalePHS_28 Start: 16514, Stop: 17308, Start Num: 3

Candidate Starts for BrazzalePHS_28:

(2, 16472), (Start: 3 @16514 has 28 MA's), (10, 16670), (14, 16736), (15, 16742), (18, 16766), (19, 16787), (22, 16844), (23, 16919),

Gene: Busephilis_28 Start: 16450, Stop: 17244, Start Num: 3

Candidate Starts for Busephilis_28:

(1, 15883), (2, 16408), (Start: 3 @16450 has 28 MA's), (10, 16606), (14, 16672), (15, 16678), (18, 16702), (19, 16723), (23, 16855),

Gene: ClearAsMud_31 Start: 17240, Stop: 18022, Start Num: 3

Candidate Starts for ClearAsMud_31:

(2, 17198), (Start: 3 @17240 has 28 MA's), (14, 17462), (15, 17468), (19, 17513), (23, 17645),

Gene: Cranjis_30 Start: 16674, Stop: 17468, Start Num: 3

Candidate Starts for Cranjis_30:

(2, 16632), (Start: 3 @16674 has 28 MA's), (14, 16896), (15, 16902), (18, 16926), (19, 16947), (22, 17004), (23, 17079),

Gene: CrazyRich_28 Start: 16484, Stop: 17278, Start Num: 3

Candidate Starts for CrazyRich_28:

(2, 16442), (Start: 3 @16484 has 28 MA's), (14, 16706), (15, 16712), (18, 16736), (19, 16757), (22, 16814), (23, 16889),

Gene: Crisis_30 Start: 16469, Stop: 17263, Start Num: 3

Candidate Starts for Crisis_30:

(2, 16427), (Start: 3 @16469 has 28 MA's), (11, 16634), (14, 16691), (15, 16697), (18, 16721), (19, 16742), (23, 16874),

Gene: EarickHC_29 Start: 16395, Stop: 17189, Start Num: 3

Candidate Starts for EarickHC_29:

(2, 16353), (Start: 3 @16395 has 28 MA's), (11, 16560), (14, 16617), (15, 16623), (18, 16647), (19, 16668), (23, 16800),

Gene: Fireman_29 Start: 16346, Stop: 17080, Start Num: 4

Candidate Starts for Fireman_29:

(2, 16304), (Start: 4 @16346 has 10 MA's), (5, 16379), (17, 16532), (24, 16748), (25, 16775),

Gene: Ganandorf_28 Start: 16531, Stop: 17325, Start Num: 3

Candidate Starts for Ganandorf_28:

(1, 15964), (2, 16489), (Start: 3 @16531 has 28 MA's), (10, 16687), (14, 16753), (15, 16759), (18, 16783), (19, 16804), (23, 16936),

Gene: Gina_30 Start: 16016, Stop: 16777, Start Num: 4

Candidate Starts for Gina_30:

(2, 15968), (Start: 4 @16016 has 10 MA's), (24, 16436),

Gene: Hermeonysus_28 Start: 16403, Stop: 17197, Start Num: 3

Candidate Starts for Hermeonysus_28:

(1, 15836), (2, 16361), (Start: 3 @16403 has 28 MA's), (14, 16625), (15, 16631), (18, 16655), (19, 16676), (23, 16808),

Gene: Honeyfin_30 Start: 16719, Stop: 17513, Start Num: 3

Candidate Starts for Honeyfin_30:

(1, 16152), (2, 16677), (Start: 3 @16719 has 28 MA's), (10, 16875), (14, 16941), (15, 16947), (18, 16971), (19, 16992), (22, 17049), (23, 17124),

Gene: Jayden_30 Start: 16566, Stop: 17249, Start Num: 8

Candidate Starts for Jayden_30:

(7, 16563), (Start: 8 @16566 has 1 MA's), (19, 16752), (24, 16920), (25, 16947),

Gene: Jefe_29 Start: 16456, Stop: 17250, Start Num: 3

Candidate Starts for Jefe_29:

(1, 15889), (2, 16414), (Start: 3 @16456 has 28 MA's), (14, 16678), (15, 16684), (18, 16708), (19, 16729), (22, 16786), (23, 16861),

Gene: Jollipop_29 Start: 16801, Stop: 17595, Start Num: 3

Candidate Starts for Jollipop_29:

(2, 16759), (Start: 3 @16801 has 28 MA's), (14, 17023), (15, 17029), (18, 17053), (19, 17074), (23, 17206),

Gene: KaiHaiDragon_29 Start: 16395, Stop: 17189, Start Num: 3

Candidate Starts for KaiHaiDragon_29:

(2, 16353), (Start: 3 @16395 has 28 MA's), (11, 16560), (14, 16617), (15, 16623), (18, 16647), (19, 16668), (23, 16800),

Gene: Kowalski_28 Start: 16511, Stop: 17305, Start Num: 3

Candidate Starts for Kowalski_28:

(2, 16469), (Start: 3 @16511 has 28 MA's), (11, 16676), (14, 16733), (15, 16739), (18, 16763), (19, 16784), (22, 16841), (23, 16916),

Gene: LittleFortune_30 Start: 16761, Stop: 17555, Start Num: 3

Candidate Starts for LittleFortune_30:

(1, 16194), (2, 16719), (Start: 3 @16761 has 28 MA's), (Start: 8 @16836 has 1 MA's), (14, 16983), (15, 16989), (18, 17013), (19, 17034), (22, 17091), (23, 17166),

Gene: Megan_23 Start: 17711, Stop: 18487, Start Num: 4

Candidate Starts for Megan_23:

(2, 17666), (Start: 4 @17711 has 10 MA's), (6, 17750), (12, 17840), (13, 17864), (17, 17915), (19, 17945), (23, 18104), (24, 18131), (26, 18290), (27, 18305), (28, 18320),

Gene: Metamorphoo_29 Start: 16335, Stop: 17102, Start Num: 4

Candidate Starts for Metamorphoo_29:

(2, 16290), (Start: 4 @16335 has 10 MA's), (5, 16368), (9, 16410), (17, 16521), (24, 16737),

Gene: Nicole72_24 Start: 18091, Stop: 18873, Start Num: 4

Candidate Starts for Nicole72_24:

(Start: 4 @18091 has 10 MA's), (16, 18247), (20, 18307), (21, 18349), (22, 18364), (24, 18466),

Gene: NoodlelyBoi_29 Start: 16850, Stop: 17632, Start Num: 3

Candidate Starts for NoodlelyBoi_29:

(2, 16808), (Start: 3 @16850 has 28 MA's), (11, 17015), (14, 17072), (15, 17078), (19, 17123), (23, 17255),

Gene: Onika_28 Start: 16485, Stop: 17279, Start Num: 3

Candidate Starts for Onika_28:

(2, 16443), (Start: 3 @16485 has 28 MA's), (10, 16641), (14, 16707), (15, 16713), (18, 16737), (19, 16758), (22, 16815), (23, 16890),

Gene: Paschalis_28 Start: 16499, Stop: 17293, Start Num: 3

Candidate Starts for Paschalis_28:

(2, 16457), (Start: 3 @16499 has 28 MA's), (14, 16721), (15, 16727), (18, 16751), (19, 16772), (23, 16904),

Gene: Phorgeous_28 Start: 16352, Stop: 17146, Start Num: 3

Candidate Starts for Phorgeous_28:

(2, 16310), (Start: 3 @16352 has 28 MA's), (14, 16574), (15, 16580), (18, 16604), (19, 16625), (22, 16682), (23, 16757),

Gene: Phrancesco_29 Start: 16630, Stop: 17424, Start Num: 3

Candidate Starts for Phrancesco_29:

(2, 16588), (Start: 3 @16630 has 28 MA's), (14, 16852), (15, 16858), (18, 16882), (19, 16903), (22, 16960), (23, 17035),

Gene: PierreOrion_29 Start: 16654, Stop: 17448, Start Num: 3

Candidate Starts for PierreOrion_29:

(2, 16612), (Start: 3 @16654 has 28 MA's), (14, 16876), (15, 16882), (18, 16906), (19, 16927), (23, 17059),

Gene: PiperSansNom_29 Start: 16806, Stop: 17600, Start Num: 3

Candidate Starts for PiperSansNom_29:

(2, 16764), (Start: 3 @16806 has 28 MA's), (14, 17028), (15, 17034), (18, 17058), (19, 17079), (23, 17211),

Gene: Piperis_29 Start: 16476, Stop: 17270, Start Num: 3

Candidate Starts for Piperis_29:

(2, 16434), (Start: 3 @16476 has 28 MA's), (14, 16698), (15, 16704), (18, 16728), (19, 16749), (22, 16806), (23, 16881),

Gene: Pulchra_30 Start: 16876, Stop: 17670, Start Num: 3

Candidate Starts for Pulchra_30:

(2, 16834), (Start: 3 @16876 has 28 MA's), (14, 17098), (15, 17104), (18, 17128), (19, 17149), (22, 17206), (23, 17281),

Gene: Quhwah_32 Start: 17102, Stop: 17896, Start Num: 3

Candidate Starts for Quhwah_32:

(2, 17060), (Start: 3 @17102 has 28 MA's), (14, 17324), (15, 17330), (18, 17354), (19, 17375), (23, 17507),

Gene: Ramiel05_28 Start: 16511, Stop: 17305, Start Num: 3

Candidate Starts for Ramiel05_28:

(2, 16469), (Start: 3 @16511 has 28 MA's), (11, 16676), (14, 16733), (15, 16739), (18, 16763), (19, 16784), (22, 16841), (23, 16916),

Gene: RobsFeet_30 Start: 16616, Stop: 17383, Start Num: 4

Candidate Starts for RobsFeet_30:

(2, 16571), (Start: 4 @16616 has 10 MA's), (5, 16649), (9, 16691), (17, 16802), (24, 17018),

Gene: Savannah_28 Start: 16538, Stop: 17332, Start Num: 3

Candidate Starts for Savannah_28:

(2, 16496), (Start: 3 @16538 has 28 MA's), (11, 16703), (14, 16760), (15, 16766), (18, 16790), (19, 16811), (22, 16868), (23, 16943),

Gene: Scumberland_30 Start: 16726, Stop: 17520, Start Num: 3

Candidate Starts for Scumberland_30:

(2, 16684), (Start: 3 @16726 has 28 MA's), (14, 16948), (15, 16954), (18, 16978), (19, 16999), (23, 17131),

Gene: Selwyn23_30 Start: 16704, Stop: 17498, Start Num: 3

Candidate Starts for Selwyn23_30:

(2, 16662), (Start: 3 @16704 has 28 MA's), (14, 16926), (15, 16932), (18, 16956), (19, 16977), (22, 17034), (23, 17109),

Gene: Shotgun_28 Start: 16336, Stop: 17130, Start Num: 3

Candidate Starts for Shotgun_28:

(1, 15769), (2, 16294), (Start: 3 @16336 has 28 MA's), (14, 16558), (15, 16564), (18, 16588), (19, 16609), (22, 16666), (23, 16741),

Gene: Smarties_37 Start: 18446, Stop: 19201, Start Num: 4

Candidate Starts for Smarties_37:

(2, 18398), (Start: 4 @18446 has 10 MA's), (5, 18479), (9, 18521), (17, 18632), (19, 18662), (23, 18812),

Gene: Teamocil_30 Start: 16115, Stop: 16876, Start Num: 4

Candidate Starts for Teamocil_30:

(2, 16067), (Start: 4 @16115 has 10 MA's), (24, 16535),

Gene: Tyrumbra_27 Start: 15689, Stop: 16423, Start Num: 4

Candidate Starts for Tyrumbra_27:

(2, 15647), (Start: 4 @15689 has 10 MA's), (5, 15722), (17, 15875), (24, 16091), (25, 16118),

Gene: Yeti_29 Start: 16506, Stop: 17300, Start Num: 3

Candidate Starts for Yeti_29:

(2, 16464), (Start: 3 @16506 has 28 MA's), (14, 16728), (18, 16758), (19, 16779), (23, 16911),