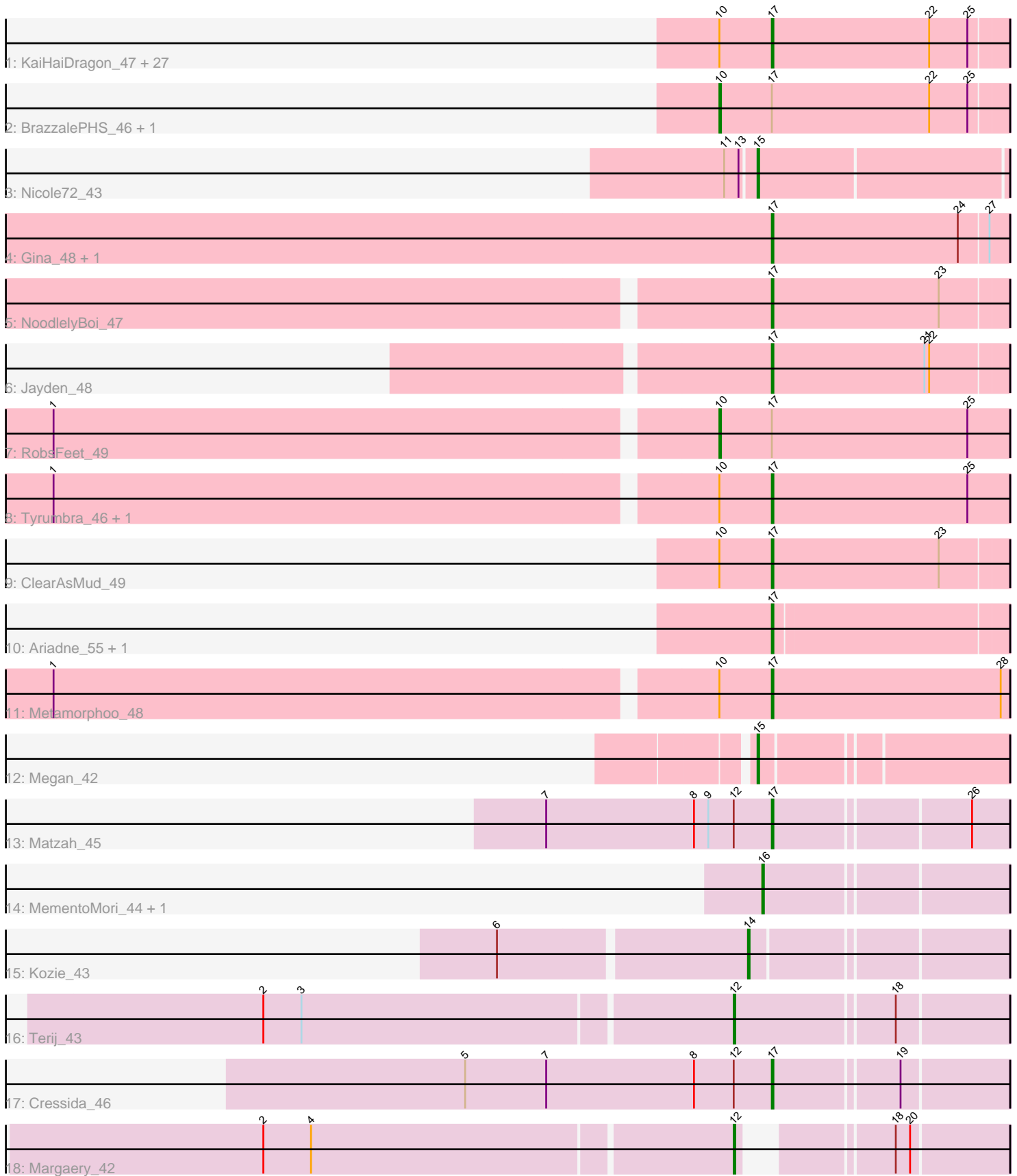


Pham 157933



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 157933 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157933 has 50 members, 5 are drafts.

Phages represented in each track:

- Track 1 : KaiHaiDragon_47, Hermeonysus_46, EarickHC_47, CrazyRich_46, Paschalis_46, Savannah_46, PierreOrion_47, Crisis_48, Jefe_47, Phorgeous_46, Ganandorf_46, Selwyn23_48, Antares_47, Scumberland_48, Yeti_47, Ramiel05_46, Piperis_47, LittleFortune_48, Quhwah_50, Jollipop_47, Cranjjs_48, Pulchra_48, Phrancesco_47, Kowalski_46, Honeyfin_48, Shotgun_46, Onika_46, PiperSansNom_47
- Track 2 : BrazzalePHS_46, Busephilis_46
- Track 3 : Nicole72_43
- Track 4 : Gina_48, Teamocil_48
- Track 5 : NoodlelyBoi_47
- Track 6 : Jayden_48
- Track 7 : RobsFeet_49
- Track 8 : Tyumbra_46, Fireman_48
- Track 9 : ClearAsMud_49
- Track 10 : Ariadne_55, Smarties_55
- Track 11 : Metamorphoo_48
- Track 12 : Megan_42
- Track 13 : Matzah_45
- Track 14 : MementoMori_44, Cinna_43
- Track 15 : Kozie_43
- Track 16 : Terij_43
- Track 17 : Cressida_46
- Track 18 : Margaery_42

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

The start number called the most often in the published annotations is 17, it was called in 35 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_47, Ariadne_55, ClearAsMud_49, Cranjjs_48, CrazyRich_46, Cressida_46, Crisis_48, EarickHC_47, Fireman_48, Ganandorf_46, Gina_48, Hermeonysus_46, Honeyfin_48, Jayden_48, Jefe_47, Jollipop_47, KaiHaiDragon_47, Kowalski_46, LittleFortune_48, Matzah_45, Metamorphoo_48, NoodlelyBoi_47, Onika_46,

Paschalis_46, Phorgeous_46, Phrancesco_47, PierreOrion_47, PiperSansNom_47, Piperis_47, Pulchra_48, Quhwah_50, Ramiel05_46, Savannah_46, Scumberland_48, Selwyn23_48, Shotgun_46, Smarties_55, Teamocil_48, Tyrumbra_46, Yeti_47,

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

- BrazzalePHS_46, Busephilis_46, RobsFeet_49,

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

- Cinna_43, Kozie_43, Margaery_42, Megan_42, MementoMori_44, Nicole72_43, Terij_43,

Summary by start number:

Start 10:

- Found in 35 of 50 (70.0%) of genes in pham
- Manual Annotations of this start: 3 of 45
- Called 8.6% of time when present
- Phage (with cluster) where this start called: BrazzalePHS_46 (EC), Busephilis_46 (EC), RobsFeet_49 (EC),

Start 12:

- Found in 4 of 50 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Margaery_42 (EI), Terij_43 (EI),

Start 14:

- Found in 1 of 50 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kozie_43 (EI),

Start 15:

- Found in 2 of 50 (4.0%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_42 (EC), Nicole72_43 (EC),

Start 16:

- Found in 2 of 50 (4.0%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna_43 (EI), MementoMori_44 (EI),

Start 17:

- Found in 43 of 50 (86.0%) of genes in pham
- Manual Annotations of this start: 35 of 45
- Called 93.0% of time when present
- Phage (with cluster) where this start called: Antares_47 (EC), Ariadne_55 (EC), ClearAsMud_49 (EC), Cranjis_48 (EC), CrazyRich_46 (EC), Cressida_46 (EI), Crisis_48 (EC), EarickHC_47 (EC), Fireman_48 (EC), Ganandorf_46 (EC), Gina_48 (EC), Hermeonysus_46 (EC), Honeyfin_48 (EC), Jayden_48 (EC), Jefe_47 (EC), Jollipop_47 (EC), KaiHaiDragon_47 (EC), Kowalski_46 (EC), LittleFortune_48 (EC),

Matzah_45 (EI), Metamorphoo_48 (EC), NoodlelyBoi_47 (EC), Onika_46 (EC), Paschalis_46 (EC), Phorgeous_46 (EC), Phrancesco_47 (EC), PierreOrion_47 (EC), PiperSansNom_47 (EC), Piperis_47 (EC), Pulchra_48 (EC), Quhwah_50 (EC), Ramiel05_46 (EC), Savannah_46 (EC), Scumberland_48 (EC), Selwyn23_48 (EC), Shotgun_46 (EC), Smarties_55 (EC), Teamocil_48 (EC), Tyrumbra_46 (EC), Yeti_47 (EC),

Summary by clusters:

There are 2 clusters represented in this pham: EI, EC,

Info for manual annotations of cluster EC:

- Start number 10 was manually annotated 3 times for cluster EC.
- Start number 15 was manually annotated 2 times for cluster EC.
- Start number 17 was manually annotated 33 times for cluster EC.

Info for manual annotations of cluster EI:

- Start number 12 was manually annotated 2 times for cluster EI.
- Start number 14 was manually annotated 1 time for cluster EI.
- Start number 16 was manually annotated 2 times for cluster EI.
- Start number 17 was manually annotated 2 times for cluster EI.

Gene Information:

Gene: Antares_47 Start: 32488, Stop: 32634, Start Num: 17

Candidate Starts for Antares_47:

(Start: 10 @32455 has 3 MA's), (Start: 17 @32488 has 35 MA's), (22, 32587), (25, 32611),

Gene: Ariadne_55 Start: 34108, Stop: 34251, Start Num: 17

Candidate Starts for Ariadne_55:

(Start: 17 @34108 has 35 MA's),

Gene: BrazzalePHS_46 Start: 32250, Stop: 32429, Start Num: 10

Candidate Starts for BrazzalePHS_46:

(Start: 10 @32250 has 3 MA's), (Start: 17 @32283 has 35 MA's), (22, 32382), (25, 32406),

Gene: Busephilis_46 Start: 32191, Stop: 32370, Start Num: 10

Candidate Starts for Busephilis_46:

(Start: 10 @32191 has 3 MA's), (Start: 17 @32224 has 35 MA's), (22, 32323), (25, 32347),

Gene: Cinna_43 Start: 32599, Stop: 32745, Start Num: 16

Candidate Starts for Cinna_43:

(Start: 16 @32599 has 2 MA's),

Gene: ClearAsMud_49 Start: 32364, Stop: 32510, Start Num: 17

Candidate Starts for ClearAsMud_49:

(Start: 10 @32331 has 3 MA's), (Start: 17 @32364 has 35 MA's), (23, 32469),

Gene: Cranjis_48 Start: 32443, Stop: 32589, Start Num: 17

Candidate Starts for Cranjis_48:

(Start: 10 @32410 has 3 MA's), (Start: 17 @32443 has 35 MA's), (22, 32542), (25, 32566),

Gene: CrazyRich_46 Start: 32252, Stop: 32398, Start Num: 17

Candidate Starts for CrazyRich_46:

(Start: 10 @32219 has 3 MA's), (Start: 17 @32252 has 35 MA's), (22, 32351), (25, 32375),

Gene: Cressida_46 Start: 32230, Stop: 32370, Start Num: 17

Candidate Starts for Cressida_46:

(5, 32038), (7, 32089), (8, 32182), (Start: 12 @32206 has 2 MA's), (Start: 17 @32230 has 35 MA's), (19, 32305),

Gene: Crisis_48 Start: 32243, Stop: 32389, Start Num: 17

Candidate Starts for Crisis_48:

(Start: 10 @32210 has 3 MA's), (Start: 17 @32243 has 35 MA's), (22, 32342), (25, 32366),

Gene: EarickHC_47 Start: 32166, Stop: 32312, Start Num: 17

Candidate Starts for EarickHC_47:

(Start: 10 @32133 has 3 MA's), (Start: 17 @32166 has 35 MA's), (22, 32265), (25, 32289),

Gene: Fireman_48 Start: 33773, Stop: 33922, Start Num: 17

Candidate Starts for Fireman_48:

(1, 33335), (Start: 10 @33740 has 3 MA's), (Start: 17 @33773 has 35 MA's), (25, 33896),

Gene: Ganandorf_46 Start: 32305, Stop: 32451, Start Num: 17

Candidate Starts for Ganandorf_46:

(Start: 10 @32272 has 3 MA's), (Start: 17 @32305 has 35 MA's), (22, 32404), (25, 32428),

Gene: Gina_48 Start: 31918, Stop: 32064, Start Num: 17

Candidate Starts for Gina_48:

(Start: 17 @31918 has 35 MA's), (24, 32035), (27, 32053),

Gene: Hermeonysus_46 Start: 32172, Stop: 32318, Start Num: 17

Candidate Starts for Hermeonysus_46:

(Start: 10 @32139 has 3 MA's), (Start: 17 @32172 has 35 MA's), (22, 32271), (25, 32295),

Gene: Honeyfin_48 Start: 32493, Stop: 32639, Start Num: 17

Candidate Starts for Honeyfin_48:

(Start: 10 @32460 has 3 MA's), (Start: 17 @32493 has 35 MA's), (22, 32592), (25, 32616),

Gene: Jayden_48 Start: 32615, Stop: 32761, Start Num: 17

Candidate Starts for Jayden_48:

(Start: 17 @32615 has 35 MA's), (21, 32711), (22, 32714),

Gene: Jefe_47 Start: 32230, Stop: 32376, Start Num: 17

Candidate Starts for Jefe_47:

(Start: 10 @32197 has 3 MA's), (Start: 17 @32230 has 35 MA's), (22, 32329), (25, 32353),

Gene: Jollipop_47 Start: 32569, Stop: 32715, Start Num: 17

Candidate Starts for Jollipop_47:

(Start: 10 @32536 has 3 MA's), (Start: 17 @32569 has 35 MA's), (22, 32668), (25, 32692),

Gene: KaiHaiDragon_47 Start: 32166, Stop: 32312, Start Num: 17

Candidate Starts for KaiHaiDragon_47:

(Start: 10 @32133 has 3 MA's), (Start: 17 @32166 has 35 MA's), (22, 32265), (25, 32289),

Gene: Kowalski_46 Start: 32279, Stop: 32425, Start Num: 17
Candidate Starts for Kowalski_46:
(Start: 10 @32246 has 3 MA's), (Start: 17 @32279 has 35 MA's), (22, 32378), (25, 32402),

Gene: Kozie_43 Start: 32123, Stop: 32275, Start Num: 14
Candidate Starts for Kozie_43:
(6, 31973), (Start: 14 @32123 has 1 MA's),

Gene: LittleFortune_48 Start: 32535, Stop: 32681, Start Num: 17
Candidate Starts for LittleFortune_48:
(Start: 10 @32502 has 3 MA's), (Start: 17 @32535 has 35 MA's), (22, 32634), (25, 32658),

Gene: Margaery_42 Start: 31857, Stop: 31997, Start Num: 12
Candidate Starts for Margaery_42:
(2, 31569), (4, 31599), (Start: 12 @31857 has 2 MA's), (18, 31929), (20, 31938),

Gene: Matzah_45 Start: 32700, Stop: 32840, Start Num: 17
Candidate Starts for Matzah_45:
(7, 32559), (8, 32652), (9, 32661), (Start: 12 @32676 has 2 MA's), (Start: 17 @32700 has 35 MA's),
(26, 32817),

Gene: Megan_42 Start: 33574, Stop: 33720, Start Num: 15
Candidate Starts for Megan_42:
(Start: 15 @33574 has 2 MA's),

Gene: MementoMori_44 Start: 32287, Stop: 32433, Start Num: 16
Candidate Starts for MementoMori_44:
(Start: 16 @32287 has 2 MA's),

Gene: Metamorphoo_48 Start: 33035, Stop: 33184, Start Num: 17
Candidate Starts for Metamorphoo_48:
(1, 32597), (Start: 10 @33002 has 3 MA's), (Start: 17 @33035 has 35 MA's), (28, 33179),

Gene: Nicole72_43 Start: 34182, Stop: 34334, Start Num: 15
Candidate Starts for Nicole72_43:
(11, 34164), (13, 34173), (Start: 15 @34182 has 2 MA's),

Gene: NoodlelyBoi_47 Start: 32576, Stop: 32722, Start Num: 17
Candidate Starts for NoodlelyBoi_47:
(Start: 17 @32576 has 35 MA's), (23, 32681),

Gene: Onika_46 Start: 32254, Stop: 32400, Start Num: 17
Candidate Starts for Onika_46:
(Start: 10 @32221 has 3 MA's), (Start: 17 @32254 has 35 MA's), (22, 32353), (25, 32377),

Gene: Paschalis_46 Start: 32261, Stop: 32407, Start Num: 17
Candidate Starts for Paschalis_46:
(Start: 10 @32228 has 3 MA's), (Start: 17 @32261 has 35 MA's), (22, 32360), (25, 32384),

Gene: Phorgeous_46 Start: 32124, Stop: 32270, Start Num: 17
Candidate Starts for Phorgeous_46:
(Start: 10 @32091 has 3 MA's), (Start: 17 @32124 has 35 MA's), (22, 32223), (25, 32247),

Gene: Phrancesco_47 Start: 32414, Stop: 32560, Start Num: 17
Candidate Starts for Phrancesco_47:
(Start: 10 @32381 has 3 MA's), (Start: 17 @32414 has 35 MA's), (22, 32513), (25, 32537),

Gene: PierreOrion_47 Start: 32428, Stop: 32574, Start Num: 17
Candidate Starts for PierreOrion_47:
(Start: 10 @32395 has 3 MA's), (Start: 17 @32428 has 35 MA's), (22, 32527), (25, 32551),

Gene: PiperSansNom_47 Start: 32568, Stop: 32714, Start Num: 17
Candidate Starts for PiperSansNom_47:
(Start: 10 @32535 has 3 MA's), (Start: 17 @32568 has 35 MA's), (22, 32667), (25, 32691),

Gene: Piperis_47 Start: 32247, Stop: 32393, Start Num: 17
Candidate Starts for Piperis_47:
(Start: 10 @32214 has 3 MA's), (Start: 17 @32247 has 35 MA's), (22, 32346), (25, 32370),

Gene: Pulchra_48 Start: 32644, Stop: 32790, Start Num: 17
Candidate Starts for Pulchra_48:
(Start: 10 @32611 has 3 MA's), (Start: 17 @32644 has 35 MA's), (22, 32743), (25, 32767),

Gene: Quhwah_50 Start: 32876, Stop: 33022, Start Num: 17
Candidate Starts for Quhwah_50:
(Start: 10 @32843 has 3 MA's), (Start: 17 @32876 has 35 MA's), (22, 32975), (25, 32999),

Gene: Ramiel05_46 Start: 32279, Stop: 32425, Start Num: 17
Candidate Starts for Ramiel05_46:
(Start: 10 @32246 has 3 MA's), (Start: 17 @32279 has 35 MA's), (22, 32378), (25, 32402),

Gene: RobsFeet_49 Start: 33283, Stop: 33465, Start Num: 10
Candidate Starts for RobsFeet_49:
(1, 32878), (Start: 10 @33283 has 3 MA's), (Start: 17 @33316 has 35 MA's), (25, 33439),

Gene: Savannah_46 Start: 32306, Stop: 32452, Start Num: 17
Candidate Starts for Savannah_46:
(Start: 10 @32273 has 3 MA's), (Start: 17 @32306 has 35 MA's), (22, 32405), (25, 32429),

Gene: Scumberland_48 Start: 32501, Stop: 32647, Start Num: 17
Candidate Starts for Scumberland_48:
(Start: 10 @32468 has 3 MA's), (Start: 17 @32501 has 35 MA's), (22, 32600), (25, 32624),

Gene: Selwyn23_48 Start: 32478, Stop: 32624, Start Num: 17
Candidate Starts for Selwyn23_48:
(Start: 10 @32445 has 3 MA's), (Start: 17 @32478 has 35 MA's), (22, 32577), (25, 32601),

Gene: Shotgun_46 Start: 32105, Stop: 32251, Start Num: 17
Candidate Starts for Shotgun_46:
(Start: 10 @32072 has 3 MA's), (Start: 17 @32105 has 35 MA's), (22, 32204), (25, 32228),

Gene: Smarties_55 Start: 34108, Stop: 34251, Start Num: 17
Candidate Starts for Smarties_55:
(Start: 17 @34108 has 35 MA's),

Gene: Teamocil_48 Start: 32017, Stop: 32163, Start Num: 17

Candidate Starts for Teamocil_48:

(Start: 17 @32017 has 35 MA's), (24, 32134), (27, 32152),

Gene: Terij_43 Start: 31296, Stop: 31460, Start Num: 12

Candidate Starts for Terij_43:

(2, 31008), (3, 31032), (Start: 12 @31296 has 2 MA's), (18, 31392),

Gene: Tyrumbra_46 Start: 33116, Stop: 33265, Start Num: 17

Candidate Starts for Tyrumbra_46:

(1, 32678), (Start: 10 @33083 has 3 MA's), (Start: 17 @33116 has 35 MA's), (25, 33239),

Gene: Yeti_47 Start: 32280, Stop: 32426, Start Num: 17

Candidate Starts for Yeti_47:

(Start: 10 @32247 has 3 MA's), (Start: 17 @32280 has 35 MA's), (22, 32379), (25, 32403),