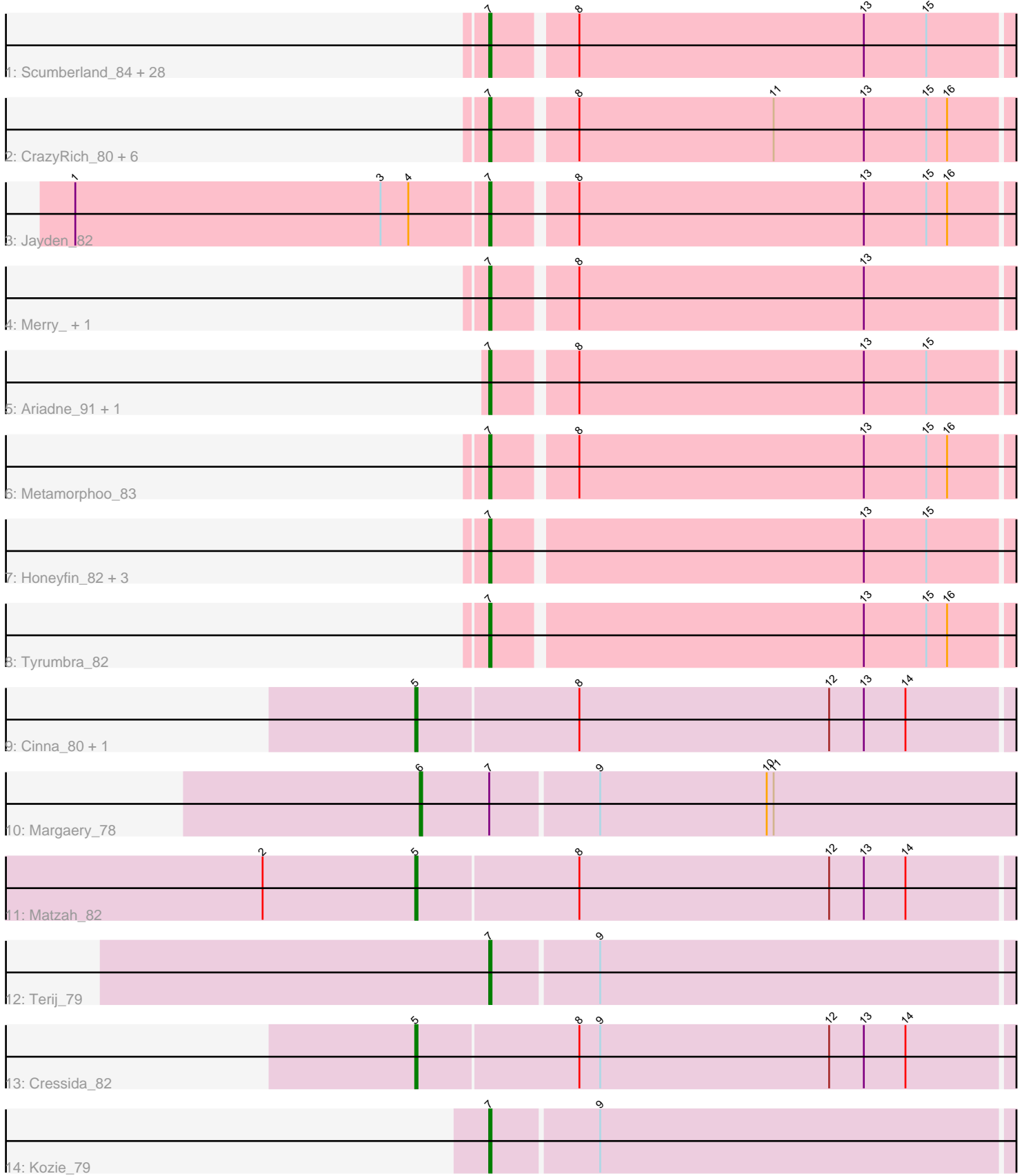


Pham 224634



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 224634 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224634 has 54 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Scumberland_84, Jollipop_83, Fireman_86, Piperis_83, BrazzalePHS_81, PierreOrion_81, Phrancesco_82, Gina_87, KaiHaiDragon_83, EarickHC_83, Ganandorf_80, Pulchra_84, Paschalis_82, Cranjis_83, Busephilis_81, Teamocil_87, Yeti_83, Savannah_81, Glorp_83, Crisis_83, Phorgeous_82, Kowalski_81, Selwyn23_83, Jefe_82, Ramiel05_81, Shrubaron_85, RobsFeet_89, Onika_81, Antares_82
- Track 2 : CrazyRich_80, LittleFortune_83, NoodlelyBoi_82, ClearAsMud_85, SirFrank_82, PhedwardCullen_79, PiperSansNom_83
- Track 3 : Jayden_82
- Track 4 : Merry_, Sunny_
- Track 5 : Ariadne_91, Smarties_91
- Track 6 : Metamorphoo_83
- Track 7 : Honeyfin_82, Hermeonysus_82, Quhwah_86, Shotgun_81
- Track 8 : Tyumbra_82
- Track 9 : Cinna_80, MementoMori_81
- Track 10 : Margaery_78
- Track 11 : Matzah_82
- Track 12 : Terij_79
- Track 13 : Cressida_82
- Track 14 : Kozie_79

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

The start number called the most often in the published annotations is 7, it was called in 44 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_82, Ariadne_91, BrazzalePHS_81, Busephilis_81, ClearAsMud_85, Cranjis_83, CrazyRich_80, Crisis_83, EarickHC_83, Fireman_86, Ganandorf_80, Gina_87, Glorp_83, Hermeonysus_82, Honeyfin_82, Jayden_82, Jefe_82, Jollipop_83, KaiHaiDragon_83, Kowalski_81, Kozie_79, LittleFortune_83, Merry_, Metamorphoo_83, NoodlelyBoi_82, Onika_81, Paschalis_82, PhedwardCullen_79, Phorgeous_82, Phrancesco_82, PierreOrion_81, PiperSansNom_83, Piperis_83, Pulchra_84, Quhwah_86, Ramiel05_81, RobsFeet_89, Savannah_81,

Scumberland_84, Selwyn23_83, Shotgun_81, Shrubaron_85, SirFrank_82, Smarties_91, Sunny_, Teamocil_87, Terij_79, Tyrumbra_82, Yeti_83,

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

- Margaery_78,

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

- Cinna_80, Cressida_82, Matzah_82, MementoMori_81,

Summary by start number:

Start 5:

- Found in 4 of 54 (7.4%) of genes in pham
- Manual Annotations of this start: 4 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna_80 (EI), Cressida_82 (EI), Matzah_82 (EI), MementoMori_81 (EI),

Start 6:

- Found in 1 of 54 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Margaery_78 (EI),

Start 7:

- Found in 50 of 54 (92.6%) of genes in pham
- Manual Annotations of this start: 44 of 49
- Called 98.0% of time when present
- Phage (with cluster) where this start called: Antares_82 (EC), Ariadne_91 (EC), BrazzalePHS_81 (EC), Busephilis_81 (EC), ClearAsMud_85 (EC), Cranjjs_83 (EC), CrazyRich_80 (EC), Crisis_83 (EC), EarickHC_83 (EC), Fireman_86 (EC), Ganandorf_80 (EC), Gina_87 (EC), Glorp_83 (EC), Hermeonysus_82 (EC), Honeyfin_82 (EC), Jayden_82 (EC), Jefe_82 (EC), Jollipop_83 (EC), KaiHaiDragon_83 (EC), Kowalski_81 (EC), Kozi_79 (EI), LittleFortune_83 (EC), Merry_ (EC), Metamorphoo_83 (EC), NoodlelyBoi_82 (EC), Onika_81 (EC), Paschalis_82 (EC), PhedwardCullen_79 (EC), Phorgeous_82 (EC), Phrancesco_82 (EC), PierreOrion_81 (EC), PiperSansNom_83 (EC), Piperis_83 (EC), Pulchra_84 (EC), Quhwah_86 (EC), Ramiel05_81 (EC), RobsFeet_89 (EC), Savannah_81 (EC), Scumberland_84 (EC), Selwyn23_83 (EC), Shotgun_81 (EC), Shrubaron_85 (EC), SirFrank_82 (EC), Smarties_91 (EC), Sunny_ (EC), Teamocil_87 (EC), Terij_79 (EI), Tyrumbra_82 (EC), Yeti_83 (EC),

Summary by clusters:

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

Info for manual annotations of cluster EC:

- Start number 7 was manually annotated 42 times for cluster EC.

Info for manual annotations of cluster EI:

- Start number 5 was manually annotated 4 times for cluster EI.
- Start number 6 was manually annotated 1 time for cluster EI.
- Start number 7 was manually annotated 2 times for cluster EI.

Gene Information:

Gene: Antares_82 Start: 48883, Stop: 49116, Start Num: 7

Candidate Starts for Antares_82:

(Start: 7 @48883 has 44 MA's), (8, 48916), (13, 49039), (15, 49066),

Gene: Ariadne_91 Start: 49718, Stop: 49951, Start Num: 7

Candidate Starts for Ariadne_91:

(Start: 7 @49718 has 44 MA's), (8, 49751), (13, 49874), (15, 49901),

Gene: BrazzalePHS_81 Start: 48683, Stop: 48916, Start Num: 7

Candidate Starts for BrazzalePHS_81:

(Start: 7 @48683 has 44 MA's), (8, 48716), (13, 48839), (15, 48866),

Gene: Busephilis_81 Start: 48590, Stop: 48823, Start Num: 7

Candidate Starts for Busephilis_81:

(Start: 7 @48590 has 44 MA's), (8, 48623), (13, 48746), (15, 48773),

Gene: Cinna_80 Start: 49555, Stop: 49815, Start Num: 5

Candidate Starts for Cinna_80:

(Start: 5 @49555 has 4 MA's), (8, 49624), (12, 49732), (13, 49747), (14, 49765),

Gene: ClearAsMud_85 Start: 48908, Stop: 49135, Start Num: 7

Candidate Starts for ClearAsMud_85:

(Start: 7 @48908 has 44 MA's), (8, 48941), (11, 49025), (13, 49064), (15, 49091), (16, 49100),

Gene: Cranjis_83 Start: 48870, Stop: 49103, Start Num: 7

Candidate Starts for Cranjis_83:

(Start: 7 @48870 has 44 MA's), (8, 48903), (13, 49026), (15, 49053),

Gene: CrazyRich_80 Start: 48380, Stop: 48607, Start Num: 7

Candidate Starts for CrazyRich_80:

(Start: 7 @48380 has 44 MA's), (8, 48413), (11, 48497), (13, 48536), (15, 48563), (16, 48572),

Gene: Cressida_82 Start: 49856, Stop: 50116, Start Num: 5

Candidate Starts for Cressida_82:

(Start: 5 @49856 has 4 MA's), (8, 49925), (9, 49934), (12, 50033), (13, 50048), (14, 50066),

Gene: Crisis_83 Start: 48826, Stop: 49059, Start Num: 7

Candidate Starts for Crisis_83:

(Start: 7 @48826 has 44 MA's), (8, 48859), (13, 48982), (15, 49009),

Gene: EarickHC_83 Start: 48748, Stop: 48981, Start Num: 7

Candidate Starts for EarickHC_83:

(Start: 7 @48748 has 44 MA's), (8, 48781), (13, 48904), (15, 48931),

Gene: Fireman_86 Start: 50140, Stop: 50367, Start Num: 7

Candidate Starts for Fireman_86:

(Start: 7 @50140 has 44 MA's), (8, 50173), (13, 50296), (15, 50323),

Gene: Ganandorf_80 Start: 48234, Stop: 48467, Start Num: 7
Candidate Starts for Ganandorf_80:
(Start: 7 @48234 has 44 MA's), (8, 48267), (13, 48390), (15, 48417),

Gene: Gina_87 Start: 48746, Stop: 48973, Start Num: 7
Candidate Starts for Gina_87:
(Start: 7 @48746 has 44 MA's), (8, 48779), (13, 48902), (15, 48929),

Gene: Glorp_83 Start: 48635, Stop: 48868, Start Num: 7
Candidate Starts for Glorp_83:
(Start: 7 @48635 has 44 MA's), (8, 48668), (13, 48791), (15, 48818),

Gene: Hermeonysus_82 Start: 48591, Stop: 48824, Start Num: 7
Candidate Starts for Hermeonysus_82:
(Start: 7 @48591 has 44 MA's), (13, 48747), (15, 48774),

Gene: Honeyfin_82 Start: 48424, Stop: 48657, Start Num: 7
Candidate Starts for Honeyfin_82:
(Start: 7 @48424 has 44 MA's), (13, 48580), (15, 48607),

Gene: Jayden_82 Start: 48351, Stop: 48578, Start Num: 7
Candidate Starts for Jayden_82:
(1, 48174), (3, 48306), (4, 48318), (Start: 7 @48351 has 44 MA's), (8, 48384), (13, 48507), (15, 48534),
(16, 48543),

Gene: Jefe_82 Start: 48646, Stop: 48879, Start Num: 7
Candidate Starts for Jefe_82:
(Start: 7 @48646 has 44 MA's), (8, 48679), (13, 48802), (15, 48829),

Gene: Jollipop_83 Start: 49011, Stop: 49244, Start Num: 7
Candidate Starts for Jollipop_83:
(Start: 7 @49011 has 44 MA's), (8, 49044), (13, 49167), (15, 49194),

Gene: KaiHaiDragon_83 Start: 48748, Stop: 48981, Start Num: 7
Candidate Starts for KaiHaiDragon_83:
(Start: 7 @48748 has 44 MA's), (8, 48781), (13, 48904), (15, 48931),

Gene: Kowalski_81 Start: 48678, Stop: 48911, Start Num: 7
Candidate Starts for Kowalski_81:
(Start: 7 @48678 has 44 MA's), (8, 48711), (13, 48834), (15, 48861),

Gene: Kozie_79 Start: 49382, Stop: 49612, Start Num: 7
Candidate Starts for Kozie_79:
(Start: 7 @49382 has 44 MA's), (9, 49427),

Gene: LittleFortune_83 Start: 48667, Stop: 48894, Start Num: 7
Candidate Starts for LittleFortune_83:
(Start: 7 @48667 has 44 MA's), (8, 48700), (11, 48784), (13, 48823), (15, 48850), (16, 48859),

Gene: Margaery_78 Start: 49302, Stop: 49565, Start Num: 6
Candidate Starts for Margaery_78:
(Start: 6 @49302 has 1 MA's), (Start: 7 @49332 has 44 MA's), (9, 49377), (10, 49449), (11, 49452),

Gene: Matzah_82 Start: 49610, Stop: 49870, Start Num: 5
Candidate Starts for Matzah_82:
(2, 49544), (Start: 5 @49610 has 4 MA's), (8, 49679), (12, 49787), (13, 49802), (14, 49820),

Gene: MementoMori_81 Start: 49295, Stop: 49555, Start Num: 5
Candidate Starts for MementoMori_81:
(Start: 5 @49295 has 4 MA's), (8, 49364), (12, 49472), (13, 49487), (14, 49505),

Gene: Merry_ Start: 48837, Stop: 49064, Start Num: 7
Candidate Starts for Merry_:
(Start: 7 @48837 has 44 MA's), (8, 48870), (13, 48993),

Gene: Metamorphoo_83 Start: 49433, Stop: 49660, Start Num: 7
Candidate Starts for Metamorphoo_83:
(Start: 7 @49433 has 44 MA's), (8, 49466), (13, 49589), (15, 49616), (16, 49625),

Gene: NoodlelyBoi_82 Start: 49013, Stop: 49240, Start Num: 7
Candidate Starts for NoodlelyBoi_82:
(Start: 7 @49013 has 44 MA's), (8, 49046), (11, 49130), (13, 49169), (15, 49196), (16, 49205),

Gene: Onika_81 Start: 48649, Stop: 48882, Start Num: 7
Candidate Starts for Onika_81:
(Start: 7 @48649 has 44 MA's), (8, 48682), (13, 48805), (15, 48832),

Gene: Paschalis_82 Start: 48676, Stop: 48909, Start Num: 7
Candidate Starts for Paschalis_82:
(Start: 7 @48676 has 44 MA's), (8, 48709), (13, 48832), (15, 48859),

Gene: PhedwardCullen_79 Start: 48127, Stop: 48354, Start Num: 7
Candidate Starts for PhedwardCullen_79:
(Start: 7 @48127 has 44 MA's), (8, 48160), (11, 48244), (13, 48283), (15, 48310), (16, 48319),

Gene: Phorgeous_82 Start: 48465, Stop: 48698, Start Num: 7
Candidate Starts for Phorgeous_82:
(Start: 7 @48465 has 44 MA's), (8, 48498), (13, 48621), (15, 48648),

Gene: Phrancesco_82 Start: 48776, Stop: 49009, Start Num: 7
Candidate Starts for Phrancesco_82:
(Start: 7 @48776 has 44 MA's), (8, 48809), (13, 48932), (15, 48959),

Gene: PierreOrion_81 Start: 48485, Stop: 48718, Start Num: 7
Candidate Starts for PierreOrion_81:
(Start: 7 @48485 has 44 MA's), (8, 48518), (13, 48641), (15, 48668),

Gene: PiperSansNom_83 Start: 48985, Stop: 49212, Start Num: 7
Candidate Starts for PiperSansNom_83:
(Start: 7 @48985 has 44 MA's), (8, 49018), (11, 49102), (13, 49141), (15, 49168), (16, 49177),

Gene: Piperis_83 Start: 48584, Stop: 48817, Start Num: 7
Candidate Starts for Piperis_83:
(Start: 7 @48584 has 44 MA's), (8, 48617), (13, 48740), (15, 48767),

Gene: Pulchra_84 Start: 49151, Stop: 49384, Start Num: 7

Candidate Starts for Pulchra_84:
(Start: 7 @49151 has 44 MA's), (8, 49184), (13, 49307), (15, 49334),

Gene: Quhwah_86 Start: 49305, Stop: 49538, Start Num: 7
Candidate Starts for Quhwah_86:
(Start: 7 @49305 has 44 MA's), (13, 49461), (15, 49488),

Gene: Ramiel05_81 Start: 48678, Stop: 48911, Start Num: 7
Candidate Starts for Ramiel05_81:
(Start: 7 @48678 has 44 MA's), (8, 48711), (13, 48834), (15, 48861),

Gene: RobsFeet_89 Start: 49750, Stop: 49977, Start Num: 7
Candidate Starts for RobsFeet_89:
(Start: 7 @49750 has 44 MA's), (8, 49783), (13, 49906), (15, 49933),

Gene: Savannah_81 Start: 48870, Stop: 49103, Start Num: 7
Candidate Starts for Savannah_81:
(Start: 7 @48870 has 44 MA's), (8, 48903), (13, 49026), (15, 49053),

Gene: Scumberland_84 Start: 48924, Stop: 49157, Start Num: 7
Candidate Starts for Scumberland_84:
(Start: 7 @48924 has 44 MA's), (8, 48957), (13, 49080), (15, 49107),

Gene: Selwyn23_83 Start: 48809, Stop: 49042, Start Num: 7
Candidate Starts for Selwyn23_83:
(Start: 7 @48809 has 44 MA's), (8, 48842), (13, 48965), (15, 48992),

Gene: Shotgun_81 Start: 48180, Stop: 48413, Start Num: 7
Candidate Starts for Shotgun_81:
(Start: 7 @48180 has 44 MA's), (13, 48336), (15, 48363),

Gene: Shrubaron_85 Start: 49340, Stop: 49567, Start Num: 7
Candidate Starts for Shrubaron_85:
(Start: 7 @49340 has 44 MA's), (8, 49373), (13, 49496), (15, 49523),

Gene: SirFrank_82 Start: 48600, Stop: 48827, Start Num: 7
Candidate Starts for SirFrank_82:
(Start: 7 @48600 has 44 MA's), (8, 48633), (11, 48717), (13, 48756), (15, 48783), (16, 48792),

Gene: Smarties_91 Start: 49715, Stop: 49948, Start Num: 7
Candidate Starts for Smarties_91:
(Start: 7 @49715 has 44 MA's), (8, 49748), (13, 49871), (15, 49898),

Gene: Sunny_ Start: 48839, Stop: 49066, Start Num: 7
Candidate Starts for Sunny_
(Start: 7 @48839 has 44 MA's), (8, 48872), (13, 48995),

Gene: Teamocil_87 Start: 48839, Stop: 49066, Start Num: 7
Candidate Starts for Teamocil_87:
(Start: 7 @48839 has 44 MA's), (8, 48872), (13, 48995), (15, 49022),

Gene: Terij_79 Start: 48974, Stop: 49204, Start Num: 7
Candidate Starts for Terij_79:

(Start: 7 @48974 has 44 MA's), (9, 49019),

Gene: Tyrumbra_82 Start: 49354, Stop: 49581, Start Num: 7

Candidate Starts for Tyrumbra_82:

(Start: 7 @49354 has 44 MA's), (13, 49510), (15, 49537), (16, 49546),

Gene: Yeti_83 Start: 48206, Stop: 48439, Start Num: 7

Candidate Starts for Yeti_83:

(Start: 7 @48206 has 44 MA's), (8, 48239), (13, 48362), (15, 48389),