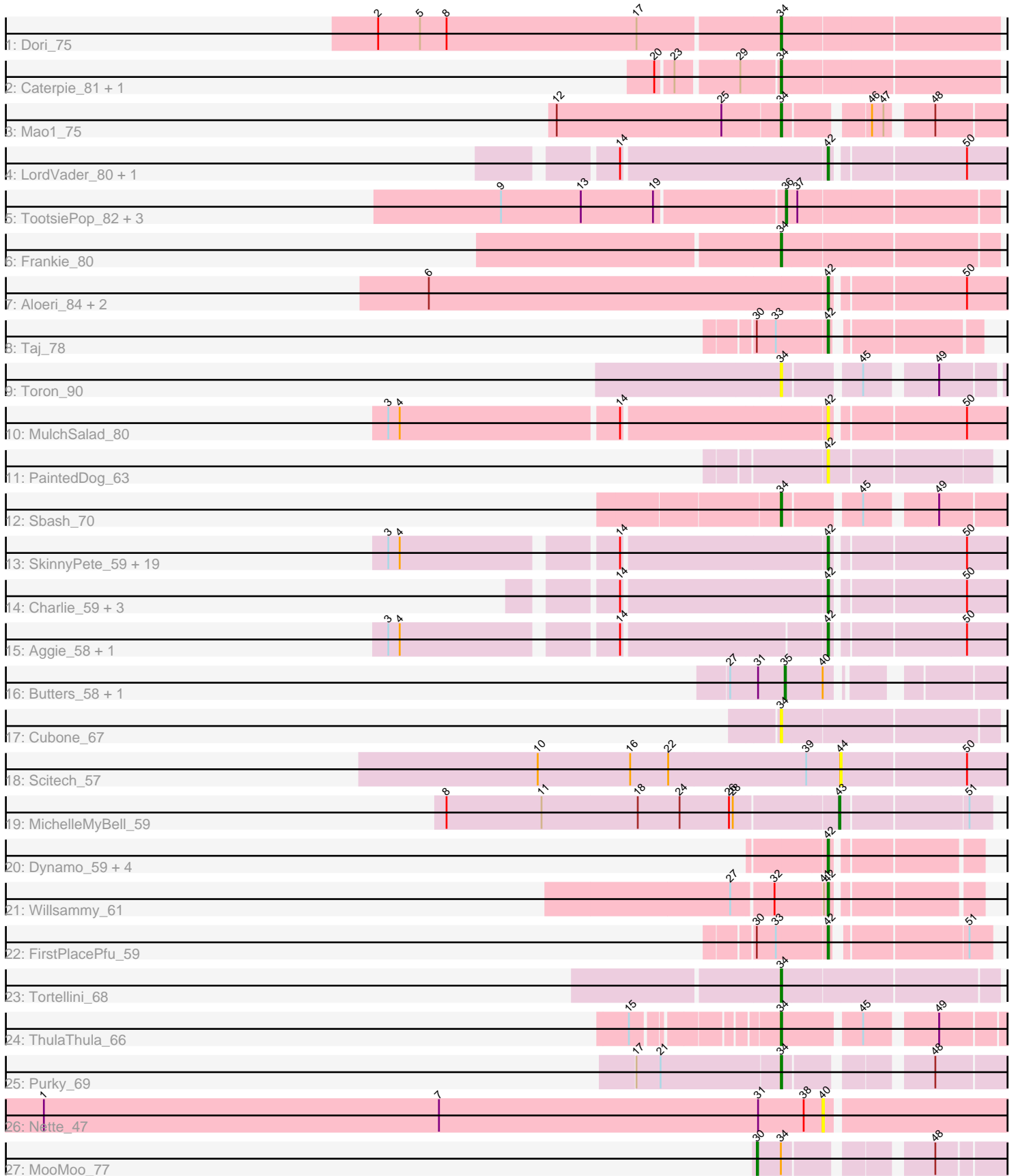


Pham 294740



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 294740 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294740 has 62 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Dori_75
- Track 2 : Caterpie_81, Sejanus_78
- Track 3 : Mao1_75
- Track 4 : LordVader_80, Piper2020_86
- Track 5 : TootsiePop_82, Misha28_82, Awesomesauce_83, LilSpotty_79
- Track 6 : Frankie_80
- Track 7 : Aloeri_84, ChickenDinner_83, DocMcStuffins_80
- Track 8 : Taj_78
- Track 9 : Toron_90
- Track 10 : MulchSalad_80
- Track 11 : PaintedDog_63
- Track 12 : Sbash_70
- Track 13 : SkinnyPete_59, Melville_67, Duplicity_60, Magsby_61, FirstPlacePfu_64, Chewbacca_65, Tessdabest_63, Schnauzer_63, Philonius_62, Smurph_62, Silvafighter_64, EGUnicorn_57, Phloss_60, Xerxes_62, Fulbright_60, Tortoise12_62, Pipsqueaks_63, Carcharodon_62, Parmesanjohn_62, Gex_63
- Track 14 : Charlie_59, Tapioca_60, Bosection6_57, Andies_56
- Track 15 : Aggie_58, Silvy_58
- Track 16 : Butters_58, Rubeelu_58
- Track 17 : Cubone_67
- Track 18 : Scitech_57
- Track 19 : MichelleMyBell_59
- Track 20 : Dynamo_59, Sonah_60, Bhagsy_65, HUHilltop_62, Jebeks_60
- Track 21 : Willsammy_61
- Track 22 : FirstPlacePfu_59
- Track 23 : Tortellini_68
- Track 24 : ThulaThula_66
- Track 25 : Purky_69
- Track 26 : Nette_47
- Track 27 : MooMoo_77

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

The start number called the most often in the published annotations is 42, it was called in 37 of the 53 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aggie_58, Aloeri_84, Andies_56, Bhagsy_65, Bosection6_57, Carcharodon_62, Charlie_59, Chewbacca_65, ChickenDinner_83, DocMcStuffins_80, Duplicity_60, Dynamo_59, EGUunicorn_57, FirstPlacePfu_59, FirstPlacePfu_64, Fulbright_60, Gex_63, HUHilltop_62, Jebeks_60, LordVader_80, Magsby_61, Melville_67, MulchSalad_80, PaintedDog_63, Parmesanjohn_62, Philonius_62, Phloss_60, Piper2020_86, Pipsqueaks_63, Schnauzer_63, Silvafighter_64, Silvy_58, SkinnyPete_59, Smurph_62, Sonah_60, Taj_78, Tapioca_60, Tessdabest_63, Tortoise12_62, Willsammy_61, Xerxes_62,

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

-

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

- Awesomesauce_83, Butters_58, Caterpie_81, Cubone_67, Dori_75, Frankie_80, LilSpotty_79, Mao1_75, MichelleMyBell_59, Misha28_82, MooMoo_77, Nette_47, Purky_69, Rubeelu_58, Sbash_70, Scitech_57, Sejanus_78, ThulaThula_66, TootsiePop_82, Toron_90, Tortellini_68,

Summary by start number:

Start 30:

- Found in 3 of 62 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 53
- Called 33.3% of time when present
- Phage (with cluster) where this start called: MooMoo_77 (singleton),

Start 34:

- Found in 12 of 62 (19.4%) of genes in pham
- Manual Annotations of this start: 8 of 53
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Caterpie_81 (AD), Cubone_67 (N), Dori_75 (AD), Frankie_80 (F1), Mao1_75 (AD), Purky_69 (P6), Sbash_70 (I2), Sejanus_78 (AD), ThulaThula_66 (P5), Toron_90 (F6), Tortellini_68 (P2),

Start 35:

- Found in 2 of 62 (3.2%) of genes in pham
- Manual Annotations of this start: 2 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Butters_58 (N), Rubeelu_58 (N),

Start 36:

- Found in 4 of 62 (6.5%) of genes in pham
- Manual Annotations of this start: 4 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Awesomesauce_83 (F1), LilSpotty_79 (singleton), Misha28_82 (F1), TootsiePop_82 (F1),

Start 40:

- Found in 3 of 62 (4.8%) of genes in pham

- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Nette_47 (T),

Start 42:

- Found in 41 of 62 (66.1%) of genes in pham
- Manual Annotations of this start: 37 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aggie_58 (N), Aloeri_84 (F1), Andies_56 (N), Bhagsy_65 (P1), Bosection6_57 (N), Carcharodon_62 (N), Charlie_59 (N), Chewbacca_65 (N), ChickenDinner_83 (F1), DocMcStuffins_80 (F1), Duplicity_60 (N), Dynamo_59 (P1), EGUunicorn_57 (N), FirstPlacePfu_59 (P1), FirstPlacePfu_64 (P1), Fulbright_60 (N), Gex_63 (N), HUHilltop_62 (P1), Jebeks_60 (P1), LordVader_80 (F), Magsby_61 (N), Melville_67 (N), MulchSalad_80 (F7), PaintedDog_63 (I1), Parmesanjohn_62 (N), Philonius_62 (N), Phloss_60 (N), Piper2020_86 (F1), Pipsqueaks_63 (N), Schnauzer_63 (N), Silvafighter_64 (N), Silvy_58 (N), SkinnyPete_59 (N), Smurph_62 (N), Sonah_60 (P1), Taj_78 (F1), Tapioca_60 (N), Tessdabest_63 (N), Tortoise12_62 (N), Willsammy_61 (P1), Xerxes_62 (N),

Start 43:

- Found in 1 of 62 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MichelleMyBell_59 (N),

Start 44:

- Found in 1 of 62 (1.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Scitech_57 (N),

Summary by clusters:

There are 14 clusters represented in this pham: P2, F1, singleton, P1, P6, AD, F6, F7, I1, F, P5, N, T, I2,

Info for manual annotations of cluster AD:

- Start number 34 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster F1:

- Start number 34 was manually annotated 1 time for cluster F1.
- Start number 36 was manually annotated 3 times for cluster F1.
- Start number 42 was manually annotated 5 times for cluster F1.

Info for manual annotations of cluster I2:

- Start number 34 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:

- Start number 35 was manually annotated 2 times for cluster N.
- Start number 42 was manually annotated 24 times for cluster N.
- Start number 43 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P1:

- Start number 42 was manually annotated 8 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 34 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P5:

- Start number 34 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:

- Start number 34 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Aggie_58 Start: 39856, Stop: 39999, Start Num: 42

Candidate Starts for Aggie_58:

(3, 39541), (4, 39550), (14, 39706), (Start: 42 @39856 has 37 MA's), (50, 39952),

Gene: Aloeri_84 Start: 50246, Stop: 50389, Start Num: 42

Candidate Starts for Aloeri_84:

(6, 49937), (Start: 42 @50246 has 37 MA's), (50, 50342),

Gene: Andies_56 Start: 39301, Stop: 39444, Start Num: 42

Candidate Starts for Andies_56:

(14, 39148), (Start: 42 @39301 has 37 MA's), (50, 39397),

Gene: Awesomesauce_83 Start: 50467, Stop: 50625, Start Num: 36

Candidate Starts for Awesomesauce_83:

(9, 50251), (13, 50314), (19, 50371), (Start: 36 @50467 has 4 MA's), (37, 50476),

Gene: Bhagsy_65 Start: 41269, Stop: 41373, Start Num: 42

Candidate Starts for Bhagsy_65:

(Start: 42 @41269 has 37 MA's),

Gene: Bosection6_57 Start: 38905, Stop: 39048, Start Num: 42

Candidate Starts for Bosection6_57:

(14, 38752), (Start: 42 @38905 has 37 MA's), (50, 39001),

Gene: Butters_58 Start: 37292, Stop: 37432, Start Num: 35

Candidate Starts for Butters_58:

(27, 37250), (31, 37271), (Start: 35 @37292 has 2 MA's), (40, 37322),

Gene: Carcharodon_62 Start: 39203, Stop: 39346, Start Num: 42

Candidate Starts for Carcharodon_62:

(3, 38885), (4, 38894), (14, 39050), (Start: 42 @39203 has 37 MA's), (50, 39299),

Gene: Caterpie_81 Start: 55418, Stop: 55582, Start Num: 34
Candidate Starts for Caterpie_81:
(20, 55334), (23, 55346), (29, 55391), (Start: 34 @55418 has 8 MA's),

Gene: Charlie_59 Start: 38529, Stop: 38672, Start Num: 42
Candidate Starts for Charlie_59:
(14, 38376), (Start: 42 @38529 has 37 MA's), (50, 38625),

Gene: Chewbacca_65 Start: 39098, Stop: 39241, Start Num: 42
Candidate Starts for Chewbacca_65:
(3, 38780), (4, 38789), (14, 38945), (Start: 42 @39098 has 37 MA's), (50, 39194),

Gene: ChickenDinner_83 Start: 50246, Stop: 50389, Start Num: 42
Candidate Starts for ChickenDinner_83:
(6, 49937), (Start: 42 @50246 has 37 MA's), (50, 50342),

Gene: Cubone_67 Start: 39807, Stop: 39968, Start Num: 34
Candidate Starts for Cubone_67:
(Start: 34 @39807 has 8 MA's),

Gene: DocMcStuffins_80 Start: 51876, Stop: 52019, Start Num: 42
Candidate Starts for DocMcStuffins_80:
(6, 51567), (Start: 42 @51876 has 37 MA's), (50, 51972),

Gene: Dori_75 Start: 56198, Stop: 56362, Start Num: 34
Candidate Starts for Dori_75:
(2, 55886), (5, 55919), (8, 55940), (17, 56090), (Start: 34 @56198 has 8 MA's),

Gene: Duplicity_60 Start: 38460, Stop: 38603, Start Num: 42
Candidate Starts for Duplicity_60:
(3, 38142), (4, 38151), (14, 38307), (Start: 42 @38460 has 37 MA's), (50, 38556),

Gene: Dynamo_59 Start: 39180, Stop: 39284, Start Num: 42
Candidate Starts for Dynamo_59:
(Start: 42 @39180 has 37 MA's),

Gene: EGUunicorn_57 Start: 37526, Stop: 37669, Start Num: 42
Candidate Starts for EGUunicorn_57:
(3, 37208), (4, 37217), (14, 37373), (Start: 42 @37526 has 37 MA's), (50, 37622),

Gene: FirstPlacePfu_64 Start: 39003, Stop: 39146, Start Num: 42
Candidate Starts for FirstPlacePfu_64:
(3, 38685), (4, 38694), (14, 38850), (Start: 42 @39003 has 37 MA's), (50, 39099),

Gene: FirstPlacePfu_59 Start: 37654, Stop: 37764, Start Num: 42
Candidate Starts for FirstPlacePfu_59:
(Start: 30 @37603 has 1 MA's), (33, 37618), (Start: 42 @37654 has 37 MA's), (51, 37747),

Gene: Frankie_80 Start: 47540, Stop: 47701, Start Num: 34
Candidate Starts for Frankie_80:
(Start: 34 @47540 has 8 MA's),

Gene: Fulbright_60 Start: 37897, Stop: 38040, Start Num: 42

Candidate Starts for Fulbright_60:
(3, 37579), (4, 37588), (14, 37744), (Start: 42 @37897 has 37 MA's), (50, 37993),

Gene: Gex_63 Start: 39219, Stop: 39362, Start Num: 42
Candidate Starts for Gex_63:
(3, 38901), (4, 38910), (14, 39066), (Start: 42 @39219 has 37 MA's), (50, 39315),

Gene: HUHilltop_62 Start: 39403, Stop: 39507, Start Num: 42
Candidate Starts for HUHilltop_62:
(Start: 42 @39403 has 37 MA's),

Gene: Jebeks_60 Start: 38700, Stop: 38804, Start Num: 42
Candidate Starts for Jebeks_60:
(Start: 42 @38700 has 37 MA's),

Gene: LilSpotty_79 Start: 45907, Stop: 46065, Start Num: 36
Candidate Starts for LilSpotty_79:
(9, 45691), (13, 45754), (19, 45811), (Start: 36 @45907 has 4 MA's), (37, 45916),

Gene: LordVader_80 Start: 46472, Stop: 46615, Start Num: 42
Candidate Starts for LordVader_80:
(14, 46319), (Start: 42 @46472 has 37 MA's), (50, 46568),

Gene: Magsby_61 Start: 39165, Stop: 39308, Start Num: 42
Candidate Starts for Magsby_61:
(3, 38847), (4, 38856), (14, 39012), (Start: 42 @39165 has 37 MA's), (50, 39261),

Gene: Mao1_75 Start: 54531, Stop: 54680, Start Num: 34
Candidate Starts for Mao1_75:
(12, 54357), (25, 54486), (Start: 34 @54531 has 8 MA's), (46, 54588), (47, 54597), (48, 54627),

Gene: Melville_67 Start: 38774, Stop: 38917, Start Num: 42
Candidate Starts for Melville_67:
(3, 38456), (4, 38465), (14, 38621), (Start: 42 @38774 has 37 MA's), (50, 38870),

Gene: MichelleMyBell_59 Start: 37278, Stop: 37388, Start Num: 43
Candidate Starts for MichelleMyBell_59:
(8, 36978), (11, 37053), (18, 37128), (24, 37161), (26, 37200), (28, 37203), (Start: 43 @37278 has 1 MA's), (51, 37371),

Gene: Misha28_82 Start: 51166, Stop: 51324, Start Num: 36
Candidate Starts for Misha28_82:
(9, 50950), (13, 51013), (19, 51070), (Start: 36 @51166 has 4 MA's), (37, 51175),

Gene: MooMoo_77 Start: 47555, Stop: 47719, Start Num: 30
Candidate Starts for MooMoo_77:
(Start: 30 @47555 has 1 MA's), (Start: 34 @47573 has 8 MA's), (48, 47669),

Gene: MulchSalad_80 Start: 48222, Stop: 48365, Start Num: 42
Candidate Starts for MulchSalad_80:
(3, 47892), (4, 47901), (14, 48069), (Start: 42 @48222 has 37 MA's), (50, 48318),

Gene: Nette_47 Start: 34345, Stop: 34482, Start Num: 40

Candidate Starts for Nette_47:
(1, 33730), (7, 34042), (31, 34294), (38, 34330), (40, 34345),

Gene: PaintedDog_63 Start: 41375, Stop: 41494, Start Num: 42
Candidate Starts for PaintedDog_63:
(Start: 42 @41375 has 37 MA's),

Gene: Parmesanjohn_62 Start: 39223, Stop: 39366, Start Num: 42
Candidate Starts for Parmesanjohn_62:
(3, 38905), (4, 38914), (14, 39070), (Start: 42 @39223 has 37 MA's), (50, 39319),

Gene: Philonius_62 Start: 39388, Stop: 39531, Start Num: 42
Candidate Starts for Philonius_62:
(3, 39070), (4, 39079), (14, 39235), (Start: 42 @39388 has 37 MA's), (50, 39484),

Gene: Phloss_60 Start: 38630, Stop: 38773, Start Num: 42
Candidate Starts for Phloss_60:
(3, 38312), (4, 38321), (14, 38477), (Start: 42 @38630 has 37 MA's), (50, 38726),

Gene: Piper2020_86 Start: 51987, Stop: 52130, Start Num: 42
Candidate Starts for Piper2020_86:
(14, 51834), (Start: 42 @51987 has 37 MA's), (50, 52083),

Gene: Pipsqueaks_63 Start: 39201, Stop: 39344, Start Num: 42
Candidate Starts for Pipsqueaks_63:
(3, 38883), (4, 38892), (14, 39048), (Start: 42 @39201 has 37 MA's), (50, 39297),

Gene: Purky_69 Start: 44331, Stop: 44486, Start Num: 34
Candidate Starts for Purky_69:
(17, 44220), (21, 44238), (Start: 34 @44331 has 8 MA's), (48, 44427),

Gene: Rubeelu_58 Start: 37292, Stop: 37432, Start Num: 35
Candidate Starts for Rubeelu_58:
(27, 37250), (31, 37271), (Start: 35 @37292 has 2 MA's), (40, 37322),

Gene: Sbash_70 Start: 46782, Stop: 46940, Start Num: 34
Candidate Starts for Sbash_70:
(Start: 34 @46782 has 8 MA's), (45, 46836), (49, 46884),

Gene: Schnauzer_63 Start: 39223, Stop: 39366, Start Num: 42
Candidate Starts for Schnauzer_63:
(3, 38905), (4, 38914), (14, 39070), (Start: 42 @39223 has 37 MA's), (50, 39319),

Gene: Scitech_57 Start: 38626, Stop: 38769, Start Num: 44
Candidate Starts for Scitech_57:
(10, 38389), (16, 38461), (22, 38491), (39, 38599), (44, 38626), (50, 38722),

Gene: Sejanus_78 Start: 56346, Stop: 56510, Start Num: 34
Candidate Starts for Sejanus_78:
(20, 56262), (23, 56274), (29, 56319), (Start: 34 @56346 has 8 MA's),

Gene: Silvafighter_64 Start: 38766, Stop: 38909, Start Num: 42
Candidate Starts for Silvafighter_64:

(3, 38448), (4, 38457), (14, 38613), (Start: 42 @38766 has 37 MA's), (50, 38862),

Gene: Silvy_58 Start: 39856, Stop: 39999, Start Num: 42

Candidate Starts for Silvy_58:

(3, 39541), (4, 39550), (14, 39706), (Start: 42 @39856 has 37 MA's), (50, 39952),

Gene: SkinnyPete_59 Start: 38970, Stop: 39113, Start Num: 42

Candidate Starts for SkinnyPete_59:

(3, 38652), (4, 38661), (14, 38817), (Start: 42 @38970 has 37 MA's), (50, 39066),

Gene: Smurph_62 Start: 39223, Stop: 39366, Start Num: 42

Candidate Starts for Smurph_62:

(3, 38905), (4, 38914), (14, 39070), (Start: 42 @39223 has 37 MA's), (50, 39319),

Gene: Sonah_60 Start: 38874, Stop: 38978, Start Num: 42

Candidate Starts for Sonah_60:

(Start: 42 @38874 has 37 MA's),

Gene: Taj_78 Start: 46564, Stop: 46665, Start Num: 42

Candidate Starts for Taj_78:

(Start: 30 @46513 has 1 MA's), (33, 46528), (Start: 42 @46564 has 37 MA's),

Gene: Tapioca_60 Start: 39740, Stop: 39883, Start Num: 42

Candidate Starts for Tapioca_60:

(14, 39587), (Start: 42 @39740 has 37 MA's), (50, 39836),

Gene: Tessdabest_63 Start: 39357, Stop: 39500, Start Num: 42

Candidate Starts for Tessdabest_63:

(3, 39039), (4, 39048), (14, 39204), (Start: 42 @39357 has 37 MA's), (50, 39453),

Gene: ThulaThula_66 Start: 44182, Stop: 44340, Start Num: 34

Candidate Starts for ThulaThula_66:

(15, 44086), (Start: 34 @44182 has 8 MA's), (45, 44239), (49, 44287),

Gene: TootsiePop_82 Start: 51166, Stop: 51324, Start Num: 36

Candidate Starts for TootsiePop_82:

(9, 50950), (13, 51013), (19, 51070), (Start: 36 @51166 has 4 MA's), (37, 51175),

Gene: Toron_90 Start: 52849, Stop: 53001, Start Num: 34

Candidate Starts for Toron_90:

(Start: 34 @52849 has 8 MA's), (45, 52903), (49, 52951),

Gene: Tortellini_68 Start: 45349, Stop: 45510, Start Num: 34

Candidate Starts for Tortellini_68:

(Start: 34 @45349 has 8 MA's),

Gene: Tortoise12_62 Start: 38344, Stop: 38487, Start Num: 42

Candidate Starts for Tortoise12_62:

(3, 38026), (4, 38035), (14, 38191), (Start: 42 @38344 has 37 MA's), (50, 38440),

Gene: Willsammy_61 Start: 41085, Stop: 41189, Start Num: 42

Candidate Starts for Willsammy_61:

(27, 41016), (32, 41046), (41, 41082), (Start: 42 @41085 has 37 MA's),

Gene: Xerxes_62 Start: 39220, Stop: 39363, Start Num: 42

Candidate Starts for Xerxes_62:

(3, 38902), (4, 38911), (14, 39067), (Start: 42 @39220 has 37 MA's), (50, 39316),