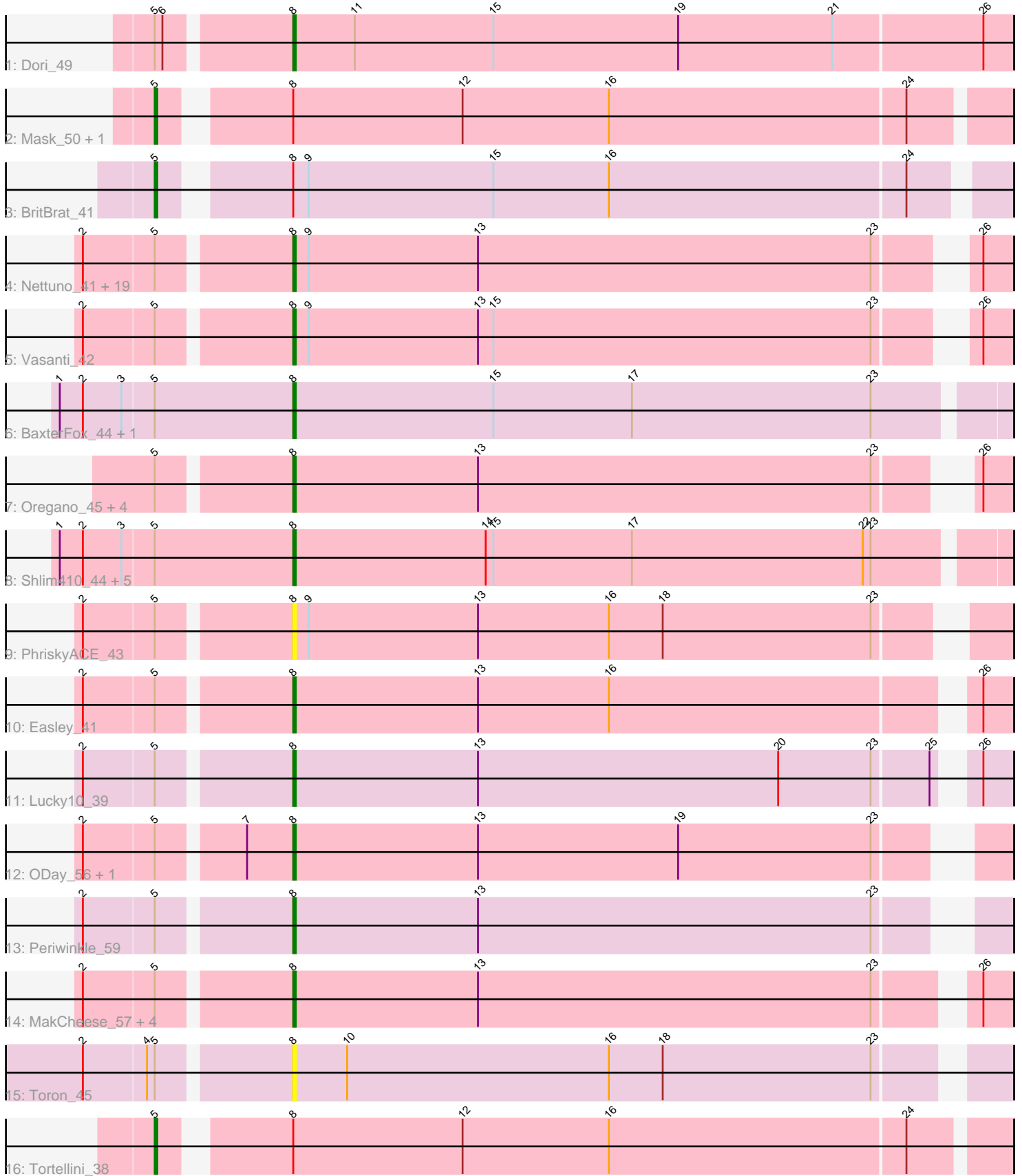


Pham 294812



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 294812 Report

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

Pham number 294812 has 51 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Dori_49
- Track 2 : Mask_50, Xavia_40
- Track 3 : BritBrat_41
- Track 4 : Nettuno_41, Lamberg_41, GemG_45, TuertoX_45, Gizermo_45, Ebert_47, Wrigley_50, JCole_43, Matteo_38, Mocha12_45, Sahara_44, Bjanes7_42, Sproutie_45, Savage_45, Clap_45, Bosnia_47, Whiteclaw_45, Cynthia_45, Jalleen_45, Haley23_45
- Track 5 : Vasanti_42
- Track 6 : BaxterFox_44, PantheRoc_43
- Track 7 : Oregano_45, Dolores_45, WinkNick_46, Sprinklemunch_51, Annalisa_42
- Track 8 : Shlim410_44, Twinkle_45, Howe_46, Mcklovin_42, Adora_43, Hortense_46
- Track 9 : PhriskyACE_43
- Track 10 : Easley_41
- Track 11 : Lucky10_39
- Track 12 : ODay_56, Getalong_56
- Track 13 : Periwinkle_59
- Track 14 : MakCheese_57, Zodiariah_43, Suerte_41, Floral_43, Pollux_45
- Track 15 : Toron_45
- Track 16 : Tortellini_38

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

The start number called the most often in the published annotations is 8, it was called in 41 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_43, Annalisa_42, BaxterFox_44, Bjanes7_42, Bosnia_47, Clap_45, Cynthia_45, Dolores_45, Dori_49, Easley_41, Ebert_47, Floral_43, GemG_45, Getalong_56, Gizermo_45, Haley23_45, Hortense_46, Howe_46, JCole_43, Jalleen_45, Lamberg_41, Lucky10_39, MakCheese_57, Matteo_38, Mcklovin_42, Mocha12_45, Nettuno_41, ODay_56, Oregano_45, PantheRoc_43, Periwinkle_59, PhriskyACE_43, Pollux_45, Sahara_44, Savage_45, Shlim410_44, Sprinklemunch_51, Sproutie_45, Suerte_41, Toron_45, TuertoX_45, Twinkle_45,

Vasanti_42, Whiteclaw_45, WinkNick_46, Wrigley_50, Zodiariah_43,

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

- BritBrat_41, Mask_50, Tortellini_38, Xavia_40,

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

-

Summary by start number:

Start 5:

- Found in 51 of 51 (100.0%) of genes in pham
- Manual Annotations of this start: 4 of 45
- Called 7.8% of time when present
- Phage (with cluster) where this start called: BritBrat_41 (CY2), Mask_50 (AD), Tortellini_38 (P2), Xavia_40 (P3),

Start 8:

- Found in 51 of 51 (100.0%) of genes in pham
- Manual Annotations of this start: 41 of 45
- Called 92.2% of time when present
- Phage (with cluster) where this start called: Adora_43 (CZ4), Annalisa_42 (CZ4), BaxterFox_44 (CZ3), Bjanes7_42 (CZ2), Bosnia_47 (CZ1), Clap_45 (CZ2), Cynthia_45 (CZ2), Dolores_45 (CZ4), Dori_49 (AD), Easley_41 (CZ4), Ebert_47 (CZ2), Floral_43 (CY1), GemG_45 (CZ2), Getalong_56 (DN1), Gizermo_45 (CZ2), Haley23_45 (CZ2), Hortense_46 (CZ4), Howe_46 (CZ4), JCole_43 (CZ2), Jalleen_45 (CZ2), Lamberg_41 (CZ2), Lucky10_39 (DH), MakCheese_57 (DW), Matteo_38 (CZ2), Mcklovin_42 (CZ4), Mocha12_45 (CZ2), Nettuno_41 (CZ2), ODay_56 (DN), Oregano_45 (CZ4), PantheRoc_43 (CZ3), Periwinkle_59 (DN1), PhriskyACE_43 (CZ4), Pollux_45 (CY1), Sahara_44 (CZ2), Savage_45 (CZ2), Shlim410_44 (CZ4), Sprinklemunch_51 (DW), Sproutie_45 (CZ2), Suerte_41 (CZ4), Toron_45 (F6), TuertoX_45 (CZ2), Twinkle_45 (CZ4), Vasanti_42 (CZ2), Whiteclaw_45 (CZ2), WinkNick_46 (CZ4), Wrigley_50 (CY4), Zodiariah_43 (DW),

Summary by clusters:

There are 15 clusters represented in this pham: P2, DN, CY2, AD, F6, CY4, CZ2, CZ3, P3, CZ1, CY1, CZ4, DN1, DH, DW,

Info for manual annotations of cluster AD:

- Start number 5 was manually annotated 1 time for cluster AD.
- Start number 8 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster CY1:

- Start number 8 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 5 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY4:

- Start number 8 was manually annotated 1 time for cluster CY4.

Info for manual annotations of cluster CZ1:

- Start number 8 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 8 was manually annotated 17 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 8 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 8 was manually annotated 12 times for cluster CZ4.

Info for manual annotations of cluster DH:

- Start number 8 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 8 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 8 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DW:

- Start number 8 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster P2:

- Start number 5 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 5 was manually annotated 1 time for cluster P3.

Gene Information:

Gene: Adora_43 Start: 35227, Stop: 35499, Start Num: 8

Candidate Starts for Adora_43:

(1, 35137), (2, 35146), (3, 35161), (Start: 5 @35173 has 4 MA's), (Start: 8 @35227 has 41 MA's), (14, 35302), (15, 35305), (17, 35359), (22, 35449), (23, 35452),

Gene: Annalisa_42 Start: 32284, Stop: 32544, Start Num: 8

Candidate Starts for Annalisa_42:

(Start: 5 @32236 has 4 MA's), (Start: 8 @32284 has 41 MA's), (13, 32356), (23, 32509), (26, 32533),

Gene: BaxterFox_44 Start: 35506, Stop: 35778, Start Num: 8

Candidate Starts for BaxterFox_44:

(1, 35416), (2, 35425), (3, 35440), (Start: 5 @35452 has 4 MA's), (Start: 8 @35506 has 41 MA's), (15, 35584), (17, 35638), (23, 35731),

Gene: Bjan7_42 Start: 32133, Stop: 32396, Start Num: 8

Candidate Starts for Bjan7_42:

(2, 32058), (Start: 5 @32085 has 4 MA's), (Start: 8 @32133 has 41 MA's), (9, 32139), (13, 32205), (23, 32358), (26, 32385),

Gene: Bosnia_47 Start: 38497, Stop: 38760, Start Num: 8

Candidate Starts for Bosnia_47:

(2, 38422), (Start: 5 @38449 has 4 MA's), (Start: 8 @38497 has 41 MA's), (9, 38503), (13, 38569), (23, 38722), (26, 38749),

Gene: BritBrat_41 Start: 34303, Stop: 34614, Start Num: 5

Candidate Starts for BritBrat_41:

(Start: 5 @34303 has 4 MA's), (Start: 8 @34345 has 41 MA's), (9, 34351), (15, 34423), (16, 34468), (24, 34582),

Gene: Clap_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for Clap_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: Cynthia_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for Cynthia_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: Dolores_45 Start: 33363, Stop: 33623, Start Num: 8

Candidate Starts for Dolores_45:

(Start: 5 @33315 has 4 MA's), (Start: 8 @33363 has 41 MA's), (13, 33435), (23, 33588), (26, 33612),

Gene: Dori_49 Start: 44285, Stop: 44563, Start Num: 8

Candidate Starts for Dori_49:

(Start: 5 @44237 has 4 MA's), (6, 44240), (Start: 8 @44285 has 41 MA's), (11, 44309), (15, 44363), (19, 44435), (21, 44495), (26, 44552),

Gene: Easley_41 Start: 31894, Stop: 32160, Start Num: 8

Candidate Starts for Easley_41:

(2, 31819), (Start: 5 @31846 has 4 MA's), (Start: 8 @31894 has 41 MA's), (13, 31966), (16, 32017), (26, 32149),

Gene: Ebert_47 Start: 32236, Stop: 32499, Start Num: 8

Candidate Starts for Ebert_47:

(2, 32161), (Start: 5 @32188 has 4 MA's), (Start: 8 @32236 has 41 MA's), (9, 32242), (13, 32308), (23, 32461), (26, 32488),

Gene: Floral_43 Start: 36167, Stop: 36430, Start Num: 8

Candidate Starts for Floral_43:

(2, 36092), (Start: 5 @36119 has 4 MA's), (Start: 8 @36167 has 41 MA's), (13, 36239), (23, 36392), (26, 36419),

Gene: GemG_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for GemG_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: Getalong_56 Start: 37752, Stop: 38012, Start Num: 8

Candidate Starts for Getalong_56:

(2, 37677), (Start: 5 @37704 has 4 MA's), (7, 37734), (Start: 8 @37752 has 41 MA's), (13, 37824), (19, 37902), (23, 37977),

Gene: Gizermo_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for Gizermo_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: Haley23_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for Haley23_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: Hortense_46 Start: 36582, Stop: 36854, Start Num: 8

Candidate Starts for Hortense_46:

(1, 36492), (2, 36501), (3, 36516), (Start: 5 @36528 has 4 MA's), (Start: 8 @36582 has 41 MA's), (14, 36657), (15, 36660), (17, 36714), (22, 36804), (23, 36807),

Gene: Howe_46 Start: 36582, Stop: 36854, Start Num: 8

Candidate Starts for Howe_46:

(1, 36492), (2, 36501), (3, 36516), (Start: 5 @36528 has 4 MA's), (Start: 8 @36582 has 41 MA's), (14, 36657), (15, 36660), (17, 36714), (22, 36804), (23, 36807),

Gene: JCole_43 Start: 31330, Stop: 31593, Start Num: 8

Candidate Starts for JCole_43:

(2, 31255), (Start: 5 @31282 has 4 MA's), (Start: 8 @31330 has 41 MA's), (9, 31336), (13, 31402), (23, 31555), (26, 31582),

Gene: Jalleen_45 Start: 31951, Stop: 32214, Start Num: 8

Candidate Starts for Jalleen_45:

(2, 31876), (Start: 5 @31903 has 4 MA's), (Start: 8 @31951 has 41 MA's), (9, 31957), (13, 32023), (23, 32176), (26, 32203),

Gene: Lamberg_41 Start: 30821, Stop: 31084, Start Num: 8

Candidate Starts for Lamberg_41:

(2, 30746), (Start: 5 @30773 has 4 MA's), (Start: 8 @30821 has 41 MA's), (9, 30827), (13, 30893), (23, 31046), (26, 31073),

Gene: Lucky10_39 Start: 30804, Stop: 31070, Start Num: 8

Candidate Starts for Lucky10_39:

(2, 30729), (Start: 5 @30756 has 4 MA's), (Start: 8 @30804 has 41 MA's), (13, 30876), (20, 30993), (23, 31029), (25, 31050), (26, 31059),

Gene: MakCheese_57 Start: 39370, Stop: 39636, Start Num: 8

Candidate Starts for MakCheese_57:

(2, 39295), (Start: 5 @39322 has 4 MA's), (Start: 8 @39370 has 41 MA's), (13, 39442), (23, 39595), (26, 39625),

Gene: Mask_50 Start: 45382, Stop: 45696, Start Num: 5

Candidate Starts for Mask_50:

(Start: 5 @45382 has 4 MA's), (Start: 8 @45424 has 41 MA's), (12, 45490), (16, 45547), (24, 45661),

Gene: Matteo_38 Start: 29863, Stop: 30126, Start Num: 8

Candidate Starts for Matteo_38:

(2, 29788), (Start: 5 @29815 has 4 MA's), (Start: 8 @29863 has 41 MA's), (9, 29869), (13, 29935), (23, 30088), (26, 30115),

Gene: Mcklovin_42 Start: 38049, Stop: 38321, Start Num: 8

Candidate Starts for Mcklovin_42:

(1, 37959), (2, 37968), (3, 37983), (Start: 5 @37995 has 4 MA's), (Start: 8 @38049 has 41 MA's), (14, 38124), (15, 38127), (17, 38181), (22, 38271), (23, 38274),

Gene: Mocha12_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for Mocha12_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: Nettuno_41 Start: 30821, Stop: 31084, Start Num: 8

Candidate Starts for Nettuno_41:

(2, 30746), (Start: 5 @30773 has 4 MA's), (Start: 8 @30821 has 41 MA's), (9, 30827), (13, 30893), (23, 31046), (26, 31073),

Gene: ODay_56 Start: 36641, Stop: 36901, Start Num: 8

Candidate Starts for ODay_56:

(2, 36566), (Start: 5 @36593 has 4 MA's), (7, 36623), (Start: 8 @36641 has 41 MA's), (13, 36713), (19, 36791), (23, 36866),

Gene: Oregano_45 Start: 32917, Stop: 33177, Start Num: 8

Candidate Starts for Oregano_45:

(Start: 5 @32869 has 4 MA's), (Start: 8 @32917 has 41 MA's), (13, 32989), (23, 33142), (26, 33166),

Gene: PantheRoc_43 Start: 34481, Stop: 34753, Start Num: 8

Candidate Starts for PantheRoc_43:

(1, 34391), (2, 34400), (3, 34415), (Start: 5 @34427 has 4 MA's), (Start: 8 @34481 has 41 MA's), (15, 34559), (17, 34613), (23, 34706),

Gene: Periwinkle_59 Start: 37039, Stop: 37299, Start Num: 8

Candidate Starts for Periwinkle_59:

(2, 36964), (Start: 5 @36991 has 4 MA's), (Start: 8 @37039 has 41 MA's), (13, 37111), (23, 37264),

Gene: PhriskyACE_43 Start: 33638, Stop: 33901, Start Num: 8

Candidate Starts for PhriskyACE_43:

(2, 33563), (Start: 5 @33590 has 4 MA's), (Start: 8 @33638 has 41 MA's), (9, 33644), (13, 33710), (16, 33761), (18, 33782), (23, 33863),

Gene: Pollux_45 Start: 36167, Stop: 36430, Start Num: 8

Candidate Starts for Pollux_45:

(2, 36092), (Start: 5 @36119 has 4 MA's), (Start: 8 @36167 has 41 MA's), (13, 36239), (23, 36392), (26, 36419),

Gene: Sahara_44 Start: 32059, Stop: 32322, Start Num: 8

Candidate Starts for Sahara_44:

(2, 31984), (Start: 5 @32011 has 4 MA's), (Start: 8 @32059 has 41 MA's), (9, 32065), (13, 32131), (23, 32284), (26, 32311),

Gene: Savage_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for Savage_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: Shlim410_44 Start: 36582, Stop: 36854, Start Num: 8

Candidate Starts for Shlim410_44:

(1, 36492), (2, 36501), (3, 36516), (Start: 5 @36528 has 4 MA's), (Start: 8 @36582 has 41 MA's), (14, 36657), (15, 36660), (17, 36714), (22, 36804), (23, 36807),

Gene: Sprinklemunch_51 Start: 38193, Stop: 38456, Start Num: 8

Candidate Starts for Sprinklemunch_51:

(Start: 5 @38145 has 4 MA's), (Start: 8 @38193 has 41 MA's), (13, 38265), (23, 38418), (26, 38445),

Gene: Sproutie_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for Sproutie_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: Suerte_41 Start: 32461, Stop: 32724, Start Num: 8

Candidate Starts for Suerte_41:

(2, 32386), (Start: 5 @32413 has 4 MA's), (Start: 8 @32461 has 41 MA's), (13, 32533), (23, 32686), (26, 32713),

Gene: Toron_45 Start: 35058, Stop: 35324, Start Num: 8

Candidate Starts for Toron_45:

(2, 34983), (4, 35007), (Start: 5 @35010 has 4 MA's), (Start: 8 @35058 has 41 MA's), (10, 35079), (16, 35181), (18, 35202), (23, 35283),

Gene: Tortellini_38 Start: 33573, Stop: 33887, Start Num: 5

Candidate Starts for Tortellini_38:

(Start: 5 @33573 has 4 MA's), (Start: 8 @33615 has 41 MA's), (12, 33681), (16, 33738), (24, 33852),

Gene: TuertoX_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for TuertoX_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: Twinkle_45 Start: 37641, Stop: 37913, Start Num: 8

Candidate Starts for Twinkle_45:

(1, 37551), (2, 37560), (3, 37575), (Start: 5 @37587 has 4 MA's), (Start: 8 @37641 has 41 MA's), (14, 37716), (15, 37719), (17, 37773), (22, 37863), (23, 37866),

Gene: Vasanti_42 Start: 31327, Stop: 31590, Start Num: 8

Candidate Starts for Vasanti_42:

(2, 31252), (Start: 5 @31279 has 4 MA's), (Start: 8 @31327 has 41 MA's), (9, 31333), (13, 31399), (15, 31405), (23, 31552), (26, 31579),

Gene: Whiteclaw_45 Start: 32312, Stop: 32575, Start Num: 8

Candidate Starts for Whiteclaw_45:

(2, 32237), (Start: 5 @32264 has 4 MA's), (Start: 8 @32312 has 41 MA's), (9, 32318), (13, 32384), (23, 32537), (26, 32564),

Gene: WinkNick_46 Start: 33286, Stop: 33546, Start Num: 8

Candidate Starts for WinkNick_46:

(Start: 5 @33238 has 4 MA's), (Start: 8 @33286 has 41 MA's), (13, 33358), (23, 33511), (26, 33535),

Gene: Wrigley_50 Start: 36007, Stop: 36270, Start Num: 8

Candidate Starts for Wrigley_50:

(2, 35932), (Start: 5 @35959 has 4 MA's), (Start: 8 @36007 has 41 MA's), (9, 36013), (13, 36079), (23, 36232), (26, 36259),

Gene: Xavia_40 Start: 34156, Stop: 34470, Start Num: 5

Candidate Starts for Xavia_40:

(Start: 5 @34156 has 4 MA's), (Start: 8 @34198 has 41 MA's), (12, 34264), (16, 34321), (24, 34435),

Gene: Zodiariah_43 Start: 36395, Stop: 36658, Start Num: 8

Candidate Starts for Zodiariah_43:

(2, 36320), (Start: 5 @36347 has 4 MA's), (Start: 8 @36395 has 41 MA's), (13, 36467), (23, 36620), (26, 36647),