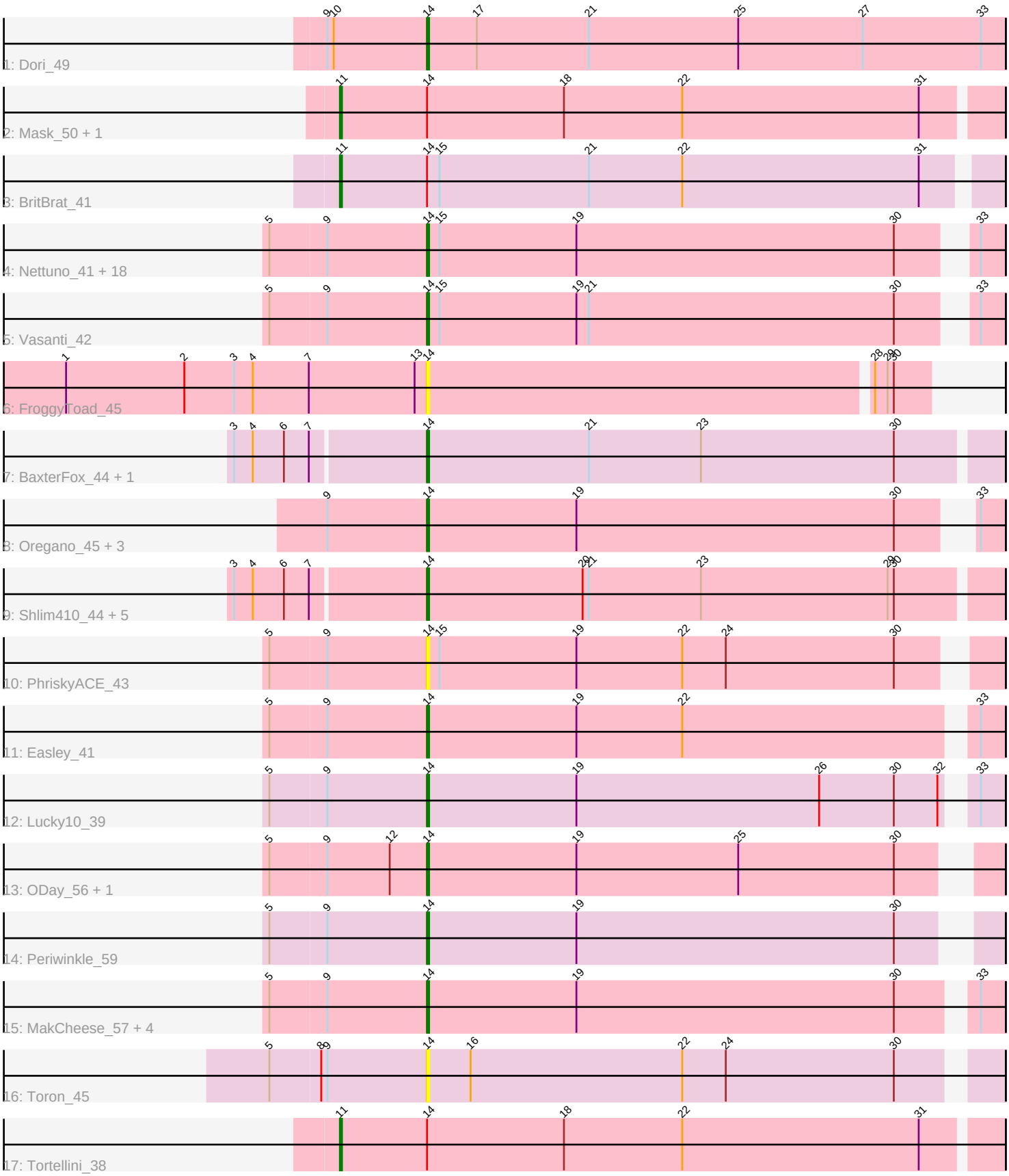
Pham 216248


1: Dori_49
2: Mask_50 + 1
3: BritBrat_41
4: Nettuno_41 + 18
5: Vasanti_42
6: FroggyToad_45
7: BaxterFox_44 + 1
8: Oregano_45 + 3
9: Shlim410_44 + 5
10: PhriskyACE_43
11: Easley_41
12: Lucky10_39
13: ODay_56 + 1
14: Periwinkle_59
15: MakCheese_57 + 4
16: Toron_45
17: Tortellini_38

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 216248 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216248 has 50 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, Bosnia_47, Whiteclaw_45, Cynthia_45, Clap_45, Haley23_45
• Track 5 : Vasanti_42
• Track 6 : FroggyToad_45
• Track 7 : BaxterFox_44, PantheRoc_43
• Track 8 : Oregano_45, Dolores_45, WinkNick_46, Annalisa_42
• Track 9 : Shlim410_44, Twinkle_45, Howe_46, Mcklovin_42, Adora_43, Hortense_46
• Track 10 : PhriskyACE_43
• Track 11 : Easley_41
• Track 12 : Lucky10_39
• Track 13 : ODay_56, Getalong_56
• Track 14 : Periwinkle_59
• Track 15 : MakCheese_57, Suerte_41, Zodiariah_45, Floral_43, Pollux_45
• Track 16 : Toron_45
• Track 17 : 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 14, it was called in 40 of the 44 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, FroggyToad_45, GemG_45, Getalong_56, Gizermo_45, Haley23_45, Hortense_46, Howe_46, JCole_43, 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, Sproutie_45,

Suerte_41, Toron_45, TuertoX_45, Twinkle_45, Vasanti_42, Whiteclaw_45, WinkNick_46, Wrigley_50, Zodiariah_45,

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 11:
• Found in 4 of 50 (8.0%) of genes in pham
• Manual Annotations of this start: 4 of 44
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BritBrat_41 (CY2), Mask_50 (AD), Tortellini_38 (P2), Xavia_40 (P3),

Start 14:
• Found in 50 of 50 (100.0%) of genes in pham
• Manual Annotations of this start: 40 of 44
• Called 92.0% 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), FroggyToad_45 (CZ2), GemG_45 (CZ2), Getalong_56 (DN1), Gizermo_45 (CZ2), Haley23_45 (CZ2), Hortense_46 (CZ4), Howe_46 (CZ4), JCole_43 (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), 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 (CY), Zodiariah_45 (DW),

Summary by clusters:

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

Info for manual annotations of cluster AD:
•Start number 11 was manually annotated 1 time for cluster AD.
•Start number 14 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster CY:
•Start number 14 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CY1:
•Start number 14 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 11 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ1:
•Start number 14 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 14 was manually annotated 17 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 14 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 14 was manually annotated 12 times for cluster CZ4.

Info for manual annotations of cluster DH:
•Start number 14 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:
•Start number 14 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 14 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster P2:
•Start number 11 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:
•Start number 11 was manually annotated 1 time for cluster P3.

Gene Information:

Gene: Adora_43 Start: 35227, Stop: 35499, Start Num: 14
Candidate Starts for Adora_43:
(3, 35137), (4, 35146), (6, 35161), (7, 35173), (Start: 14 @35227 has 40 MA's), (20, 35302), (21, 35305), (23, 35359), (29, 35449), (30, 35452),

Gene: Annalisa_42 Start: 32284, Stop: 32544, Start Num: 14
Candidate Starts for Annalisa_42:
(9, 32236), (Start: 14 @32284 has 40 MA's), (19, 32356), (30, 32509), (33, 32533),

Gene: BaxterFox_44 Start: 35506, Stop: 35778, Start Num: 14
Candidate Starts for BaxterFox_44:
(3, 35416), (4, 35425), (6, 35440), (7, 35452), (Start: 14 @35506 has 40 MA's), (21, 35584), (23, 35638), (30, 35731),

Gene: Bjanes7_42 Start: 32133, Stop: 32396, Start Num: 14
Candidate Starts for Bjanes7_42:
(5, 32058), (9, 32085), (Start: 14 @32133 has 40 MA's), (15, 32139), (19, 32205), (30, 32358), (33, 32385),

Gene: Bosnia_47 Start: 38497, Stop: 38760, Start Num: 14

Candidate Starts for Bosnia_47:
(5, 38422), (9, 38449), (Start: 14 @38497 has 40 MA's), (15, 38503), (19, 38569), (30, 38722), (33, 38749),

Gene: BritBrat_41 Start: 34303, Stop: 34614, Start Num: 11
Candidate Starts for BritBrat_41:
(Start: 11 @34303 has 4 MA's), (Start: 14 @34345 has 40 MA's), (15, 34351), (21, 34423), (22, 34468), (31, 34582),

Gene: Clap_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for Clap_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: Cynthia_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for Cynthia_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: Dolores_45 Start: 33363, Stop: 33623, Start Num: 14
Candidate Starts for Dolores_45:
(9, 33315), (Start: 14 @33363 has 40 MA's), (19, 33435), (30, 33588), (33, 33612),

Gene: Dori_49 Start: 44285, Stop: 44563, Start Num: 14
Candidate Starts for Dori_49:
(9, 44237), (10, 44240), (Start: 14 @44285 has 40 MA's), (17, 44309), (21, 44363), (25, 44435), (27, 44495), (33, 44552),

Gene: Easley_41 Start: 31894, Stop: 32160, Start Num: 14
Candidate Starts for Easley_41:
(5, 31819), (9, 31846), (Start: 14 @31894 has 40 MA's), (19, 31966), (22, 32017), (33, 32149),

Gene: Ebert_47 Start: 32236, Stop: 32499, Start Num: 14
Candidate Starts for Ebert_47:
(5, 32161), (9, 32188), (Start: 14 @32236 has 40 MA's), (15, 32242), (19, 32308), (30, 32461), (33, 32488),

Gene: Floral_43 Start: 36167, Stop: 36430, Start Num: 14
Candidate Starts for Floral_43:
(5, 36092), (9, 36119), (Start: 14 @36167 has 40 MA's), (19, 36239), (30, 36392), (33, 36419),

Gene: FroggyToad_45 Start: 32883, Stop: 33119, Start Num: 14
Candidate Starts for FroggyToad_45:
(1, 32709), (2, 32766), (3, 32790), (4, 32799), (7, 32826), (13, 32877), (Start: 14 @32883 has 40 MA's), (28, 33093), (29, 33099), (30, 33102),

Gene: GemG_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for GemG_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: Getalong_56 Start: 37752, Stop: 38012, Start Num: 14
Candidate Starts for Getalong_56:

(5, 37677), (9, 37704), (12, 37734), (Start: 14 @37752 has 40 MA's), (19, 37824), (25, 37902), (30, 37977),

Gene: Gizermo_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for Gizermo_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: Haley23_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for Haley23_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: Hortense_46 Start: 36582, Stop: 36854, Start Num: 14
Candidate Starts for Hortense_46:
(3, 36492), (4, 36501), (6, 36516), (7, 36528), (Start: 14 @36582 has 40 MA's), (20, 36657), (21, 36660), (23, 36714), (29, 36804), (30, 36807),

Gene: Howe_46 Start: 36582, Stop: 36854, Start Num: 14
Candidate Starts for Howe_46:
(3, 36492), (4, 36501), (6, 36516), (7, 36528), (Start: 14 @36582 has 40 MA's), (20, 36657), (21, 36660), (23, 36714), (29, 36804), (30, 36807),

Gene: JCole_43 Start: 31330, Stop: 31593, Start Num: 14
Candidate Starts for JCole_43:
(5, 31255), (9, 31282), (Start: 14 @31330 has 40 MA's), (15, 31336), (19, 31402), (30, 31555), (33, 31582),

Gene: Lamberg_41 Start: 30821, Stop: 31084, Start Num: 14
Candidate Starts for Lamberg_41:
(5, 30746), (9, 30773), (Start: 14 @30821 has 40 MA's), (15, 30827), (19, 30893), (30, 31046), (33, 31073),

Gene: Lucky10_39 Start: 30804, Stop: 31070, Start Num: 14
Candidate Starts for Lucky10_39:
(5, 30729), (9, 30756), (Start: 14 @30804 has 40 MA's), (19, 30876), (26, 30993), (30, 31029), (32, 31050), (33, 31059),

Gene: MakCheese_57 Start: 39370, Stop: 39636, Start Num: 14
Candidate Starts for MakCheese_57:
(5, 39295), (9, 39322), (Start: 14 @39370 has 40 MA's), (19, 39442), (30, 39595), (33, 39625),

Gene: Mask_50 Start: 45382, Stop: 45696, Start Num: 11
Candidate Starts for Mask_50:
(Start: 11 @45382 has 4 MA's), (Start: 14 @45424 has 40 MA's), (18, 45490), (22, 45547), (31, 45661),

Gene: Matteo_38 Start: 29863, Stop: 30126, Start Num: 14
Candidate Starts for Matteo_38:
(5, 29788), (9, 29815), (Start: 14 @29863 has 40 MA's), (15, 29869), (19, 29935), (30, 30088), (33, 30115),

Gene: Mcklovin_42 Start: 38049, Stop: 38321, Start Num: 14
Candidate Starts for Mcklovin_42:

(3, 37959), (4, 37968), (6, 37983), (7, 37995), (Start: 14 @38049 has 40 MA's), (20, 38124), (21, 38127), (23, 38181), (29, 38271), (30, 38274),

Gene: Mocha12_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for Mocha12_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: Nettuno_41 Start: 30821, Stop: 31084, Start Num: 14
Candidate Starts for Nettuno_41:
(5, 30746), (9, 30773), (Start: 14 @30821 has 40 MA's), (15, 30827), (19, 30893), (30, 31046), (33, 31073),

Gene: ODay_56 Start: 36641, Stop: 36901, Start Num: 14
Candidate Starts for ODay_56:
(5, 36566), (9, 36593), (12, 36623), (Start: 14 @36641 has 40 MA's), (19, 36713), (25, 36791), (30, 36866),

Gene: Oregano_45 Start: 32917, Stop: 33177, Start Num: 14
Candidate Starts for Oregano_45:
(9, 32869), (Start: 14 @32917 has 40 MA's), (19, 32989), (30, 33142), (33, 33166),

Gene: PantheRoc_43 Start: 34481, Stop: 34753, Start Num: 14
Candidate Starts for PantheRoc_43:
(3, 34391), (4, 34400), (6, 34415), (7, 34427), (Start: 14 @34481 has 40 MA's), (21, 34559), (23, 34613), (30, 34706),

Gene: Periwinkle_59 Start: 37039, Stop: 37299, Start Num: 14
Candidate Starts for Periwinkle_59:
(5, 36964), (9, 36991), (Start: 14 @37039 has 40 MA's), (19, 37111), (30, 37264),

Gene: PhriskyACE_43 Start: 33638, Stop: 33901, Start Num: 14
Candidate Starts for PhriskyACE_43:
(5, 33563), (9, 33590), (Start: 14 @33638 has 40 MA's), (15, 33644), (19, 33710), (22, 33761), (24, 33782), (30, 33863),

Gene: Pollux_45 Start: 36167, Stop: 36430, Start Num: 14
Candidate Starts for Pollux_45:
(5, 36092), (9, 36119), (Start: 14 @36167 has 40 MA's), (19, 36239), (30, 36392), (33, 36419),

Gene: Sahara_44 Start: 32059, Stop: 32322, Start Num: 14
Candidate Starts for Sahara_44:
(5, 31984), (9, 32011), (Start: 14 @32059 has 40 MA's), (15, 32065), (19, 32131), (30, 32284), (33, 32311),

Gene: Savage_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for Savage_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: Shlim410_44 Start: 36582, Stop: 36854, Start Num: 14
Candidate Starts for Shlim410_44:

(3, 36492), (4, 36501), (6, 36516), (7, 36528), (Start: 14 @36582 has 40 MA's), (20, 36657), (21, 36660), (23, 36714), (29, 36804), (30, 36807),

Gene: Sproutie_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for Sproutie_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: Suerte_41 Start: 32461, Stop: 32724, Start Num: 14
Candidate Starts for Suerte_41:
(5, 32386), (9, 32413), (Start: 14 @32461 has 40 MA's), (19, 32533), (30, 32686), (33, 32713),

Gene: Toron_45 Start: 35058, Stop: 35324, Start Num: 14
Candidate Starts for Toron_45:
(5, 34983), (8, 35007), (9, 35010), (Start: 14 @35058 has 40 MA's), (16, 35079), (22, 35181), (24, 35202), (30, 35283),

Gene: Tortellini_38 Start: 33573, Stop: 33887, Start Num: 11
Candidate Starts for Tortellini_38:
(Start: 11 @33573 has 4 MA's), (Start: 14 @33615 has 40 MA's), (18, 33681), (22, 33738), (31, 33852),

Gene: TuertoX_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for TuertoX_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: Twinkle_45 Start: 37641, Stop: 37913, Start Num: 14
Candidate Starts for Twinkle_45:
(3, 37551), (4, 37560), (6, 37575), (7, 37587), (Start: 14 @37641 has 40 MA's), (20, 37716), (21, 37719), (23, 37773), (29, 37863), (30, 37866),

Gene: Vasanti_42 Start: 31327, Stop: 31590, Start Num: 14
Candidate Starts for Vasanti_42:
(5, 31252), (9, 31279), (Start: 14 @31327 has 40 MA's), (15, 31333), (19, 31399), (21, 31405), (30, 31552), (33, 31579),

Gene: Whiteclaw_45 Start: 32312, Stop: 32575, Start Num: 14
Candidate Starts for Whiteclaw_45:
(5, 32237), (9, 32264), (Start: 14 @32312 has 40 MA's), (15, 32318), (19, 32384), (30, 32537), (33, 32564),

Gene: WinkNick_46 Start: 33286, Stop: 33546, Start Num: 14
Candidate Starts for WinkNick_46:
(9, 33238), (Start: 14 @33286 has 40 MA's), (19, 33358), (30, 33511), (33, 33535),

Gene: Wrigley_50 Start: 36007, Stop: 36270, Start Num: 14
Candidate Starts for Wrigley_50:
(5, 35932), (9, 35959), (Start: 14 @36007 has 40 MA's), (15, 36013), (19, 36079), (30, 36232), (33, 36259),

Gene: Xavia_40 Start: 34156, Stop: 34470, Start Num: 11
Candidate Starts for Xavia_40:
(Start: 11 @34156 has 4 MA's), (Start: 14 @34198 has 40 MA's), (18, 34264), (22, 34321), (31, 34435),

Gene: Zodiariah_45 Start: 36395, Stop: 36658, Start Num: 14
Candidate Starts for Zodiariah_45:
(5, 36320), (9, 36347), (Start: 14 @36395 has 40 MA's), (19, 36467), (30, 36620), (33, 36647),