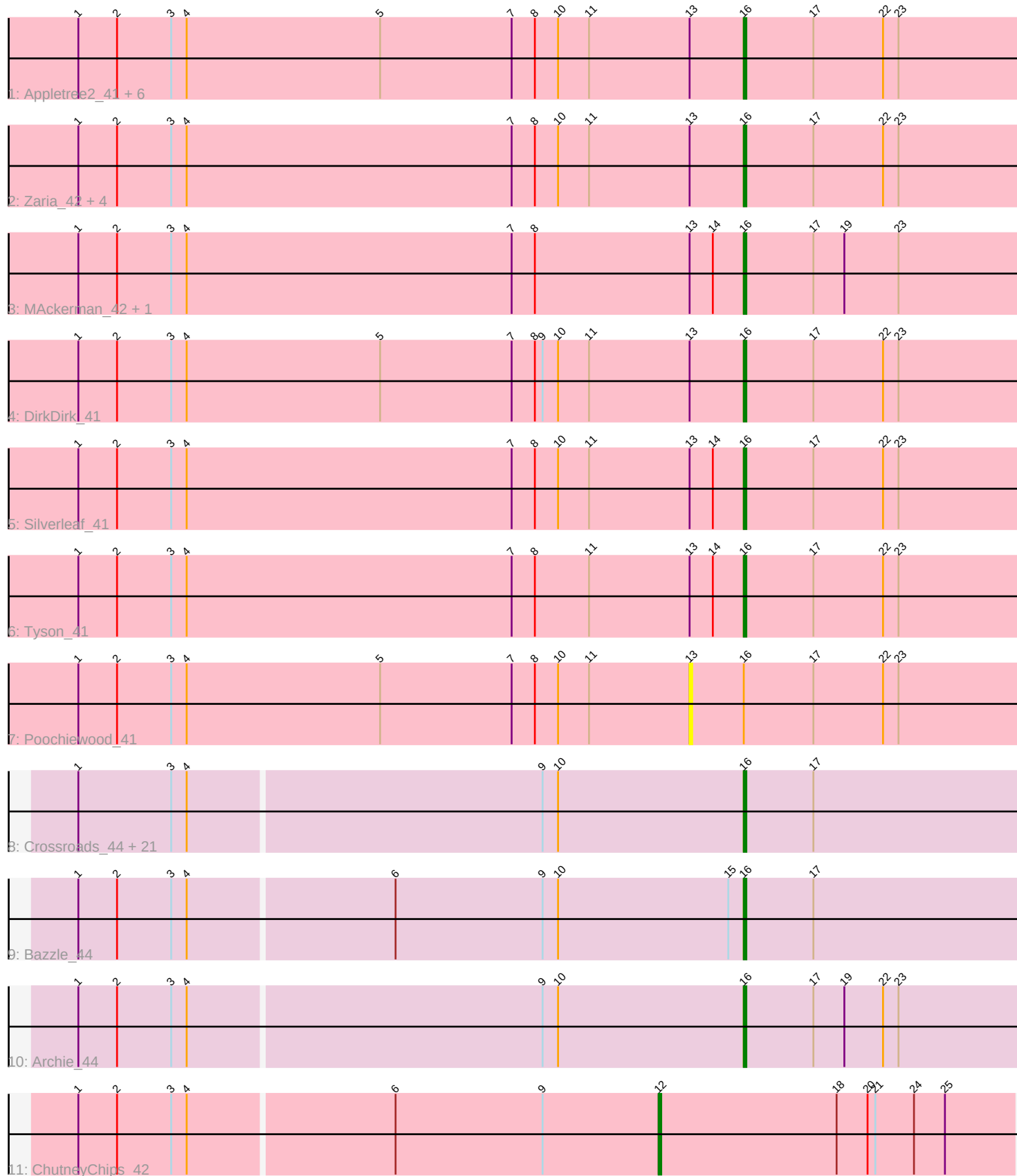


Pham 330997



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 330997 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330997 has 43 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Appletree2_41, Wamburgexpress_42, OhShagHennessy_41, JoeDirt_41, LeBron_42, Enceladus_41, UPIE_42
- Track 2 : Zaria_42, Wyatt2_42, Rose5_41, Calm_42, CicholasNage_42
- Track 3 : MAckerman_42, Halena_41
- Track 4 : DirkDirk_41
- Track 5 : Silverleaf_41
- Track 6 : Tyson_41
- Track 7 : Poochiewood_41
- Track 8 : Crossroads_44, Vetrix_44, Breezona_44, Finemlucis_44, BobsGarage_44, Gardann_44, Nicholasp3_44, Wilder_44, Faith1_44, Lewan_44, Miley16_44, Gabriela_44, Wigglewiggle_44, OverPar_44, Kahlid_44, Underpass_44, Zakai_44, Rumpelstiltskin_44, LilDestine_44, Itos_43, Winky_44, DrSeegs_44
- Track 9 : Bazzle_44
- Track 10 : Archie_44
- Track 11 : ChutneyChips_42

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

The start number called the most often in the published annotations is 16, it was called in 41 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Appletree2_41, Archie_44, Bazzle_44, BobsGarage_44, Breezona_44, Calm_42, CicholasNage_42, Crossroads_44, DirkDirk_41, DrSeegs_44, Enceladus_41, Faith1_44, Finemlucis_44, Gabriela_44, Gardann_44, Halena_41, Itos_43, JoeDirt_41, Kahlid_44, LeBron_42, Lewan_44, LilDestine_44, MAckerman_42, Miley16_44, Nicholasp3_44, OhShagHennessy_41, OverPar_44, Rose5_41, Rumpelstiltskin_44, Silverleaf_41, Tyson_41, UPIE_42, Underpass_44, Vetrix_44, Wamburgexpress_42, Wigglewiggle_44, Wilder_44, Winky_44, Wyatt2_42, Zakai_44, Zaria_42,

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

- Poochiewood_41,

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

- ChutneyChips_42,

Summary by start number:

Start 12:

- Found in 1 of 43 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChutneyChips_42 (L4),

Start 13:

- Found in 18 of 43 (41.9%) of genes in pham
- No Manual Annotations of this start.
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Poochiewood_41 (L1),

Start 16:

- Found in 42 of 43 (97.7%) of genes in pham
- Manual Annotations of this start: 41 of 42
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Appletree2_41 (L1), Archie_44 (L2), Bazzle_44 (L2), BobsGarage_44 (L2), Breezona_44 (L2), Calm_42 (L1), CicholasNage_42 (L1), Crossroads_44 (L2), DirkDirk_41 (L1), DrSeegs_44 (L2), Enceladus_41 (L1), Faith1_44 (L2), Finemlucis_44 (L2), Gabriela_44 (L2), Gardann_44 (L2), Halena_41 (L1), Itos_43 (L2), JoeDirt_41 (L1), Kahlid_44 (L2), LeBron_42 (L1), Lewan_44 (L2), LilDestine_44 (L2), MAckerman_42 (L1), Miley16_44 (L2), Nicholasp3_44 (L2), OhShagHennessey_41 (L1), OverPar_44 (L2), Rose5_41 (L1), Rumpelstiltskin_44 (L2), Silverleaf_41 (L1), Tyson_41 (L1), UPIE_42 (L1), Underpass_44 (L2), Vetrix_44 (L2), Wamburggrxpress_42 (L1), Wigglewiggle_44 (L2), Wilder_44 (L2), Winky_44 (L2), Wyatt2_42 (L1), Zakai_44 (L2), Zaria_42 (L1),

Summary by clusters:

There are 3 clusters represented in this pham: L4, L2, L1,

Info for manual annotations of cluster L1:

- Start number 16 was manually annotated 17 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 16 was manually annotated 24 times for cluster L2.

Info for manual annotations of cluster L4:

- Start number 12 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: Appletree2_41 Start: 33845, Stop: 33955, Start Num: 16

Candidate Starts for Appletree2_41:

(1, 33587), (2, 33602), (3, 33623), (4, 33629), (5, 33704), (7, 33755), (8, 33764), (10, 33773), (11, 33785), (13, 33824), (Start: 16 @33845 has 41 MA's), (17, 33872), (22, 33899), (23, 33905),

Gene: Archie_44 Start: 35453, Stop: 35563, Start Num: 16

Candidate Starts for Archie_44:

(1, 35198), (2, 35213), (3, 35234), (4, 35240), (9, 35375), (10, 35381), (Start: 16 @35453 has 41 MA's), (17, 35480), (19, 35492), (22, 35507), (23, 35513),

Gene: Bazzle_44 Start: 35485, Stop: 35595, Start Num: 16

Candidate Starts for Bazzle_44:

(1, 35230), (2, 35245), (3, 35266), (4, 35272), (6, 35350), (9, 35407), (10, 35413), (15, 35479), (Start: 16 @35485 has 41 MA's), (17, 35512),

Gene: BobsGarage_44 Start: 35249, Stop: 35359, Start Num: 16

Candidate Starts for BobsGarage_44:

(1, 34994), (3, 35030), (4, 35036), (9, 35171), (10, 35177), (Start: 16 @35249 has 41 MA's), (17, 35276),

Gene: Breezona_44 Start: 35249, Stop: 35359, Start Num: 16

Candidate Starts for Breezona_44:

(1, 34994), (3, 35030), (4, 35036), (9, 35171), (10, 35177), (Start: 16 @35249 has 41 MA's), (17, 35276),

Gene: Calm_42 Start: 33933, Stop: 34043, Start Num: 16

Candidate Starts for Calm_42:

(1, 33675), (2, 33690), (3, 33711), (4, 33717), (7, 33843), (8, 33852), (10, 33861), (11, 33873), (13, 33912), (Start: 16 @33933 has 41 MA's), (17, 33960), (22, 33987), (23, 33993),

Gene: ChutneyChips_42 Start: 34143, Stop: 34280, Start Num: 12

Candidate Starts for ChutneyChips_42:

(1, 33921), (2, 33936), (3, 33957), (4, 33963), (6, 34041), (9, 34098), (Start: 12 @34143 has 1 MA's), (18, 34212), (20, 34224), (21, 34227), (24, 34242), (25, 34254),

Gene: CicholasNage_42 Start: 33954, Stop: 34064, Start Num: 16

Candidate Starts for CicholasNage_42:

(1, 33696), (2, 33711), (3, 33732), (4, 33738), (7, 33864), (8, 33873), (10, 33882), (11, 33894), (13, 33933), (Start: 16 @33954 has 41 MA's), (17, 33981), (22, 34008), (23, 34014),

Gene: Crossroads_44 Start: 35251, Stop: 35361, Start Num: 16

Candidate Starts for Crossroads_44:

(1, 34996), (3, 35032), (4, 35038), (9, 35173), (10, 35179), (Start: 16 @35251 has 41 MA's), (17, 35278),

Gene: DirkDirk_41 Start: 33905, Stop: 34015, Start Num: 16

Candidate Starts for DirkDirk_41:

(1, 33647), (2, 33662), (3, 33683), (4, 33689), (5, 33764), (7, 33815), (8, 33824), (9, 33827), (10, 33833), (11, 33845), (13, 33884), (Start: 16 @33905 has 41 MA's), (17, 33932), (22, 33959), (23, 33965),

Gene: DrSeegs_44 Start: 35249, Stop: 35359, Start Num: 16

Candidate Starts for DrSeegs_44:

(1, 34994), (3, 35030), (4, 35036), (9, 35171), (10, 35177), (Start: 16 @35249 has 41 MA's), (17, 35276),

Gene: Enceladus_41 Start: 33888, Stop: 33998, Start Num: 16

Candidate Starts for Enceladus_41:

(1, 33630), (2, 33645), (3, 33666), (4, 33672), (5, 33747), (7, 33798), (8, 33807), (10, 33816), (11, 33828), (13, 33867), (Start: 16 @33888 has 41 MA's), (17, 33915), (22, 33942), (23, 33948),

Gene: Faith1_44 Start: 35249, Stop: 35359, Start Num: 16

Candidate Starts for Faith1_44:

(1, 34994), (3, 35030), (4, 35036), (9, 35171), (10, 35177), (Start: 16 @35249 has 41 MA's), (17, 35276),

Gene: Finemlucis_44 Start: 35525, Stop: 35635, Start Num: 16

Candidate Starts for Finemlucis_44:

(1, 35270), (3, 35306), (4, 35312), (9, 35447), (10, 35453), (Start: 16 @35525 has 41 MA's), (17, 35552),

Gene: Gabriela_44 Start: 35511, Stop: 35621, Start Num: 16

Candidate Starts for Gabriela_44:

(1, 35256), (3, 35292), (4, 35298), (9, 35433), (10, 35439), (Start: 16 @35511 has 41 MA's), (17, 35538),

Gene: Gardann_44 Start: 35250, Stop: 35360, Start Num: 16

Candidate Starts for Gardann_44:

(1, 34995), (3, 35031), (4, 35037), (9, 35172), (10, 35178), (Start: 16 @35250 has 41 MA's), (17, 35277),

Gene: Halena_41 Start: 33929, Stop: 34039, Start Num: 16

Candidate Starts for Halena_41:

(1, 33671), (2, 33686), (3, 33707), (4, 33713), (7, 33839), (8, 33848), (13, 33908), (14, 33917), (Start: 16 @33929 has 41 MA's), (17, 33956), (19, 33968), (23, 33989),

Gene: Itos_43 Start: 34155, Stop: 34265, Start Num: 16

Candidate Starts for Itos_43:

(1, 33900), (3, 33936), (4, 33942), (9, 34077), (10, 34083), (Start: 16 @34155 has 41 MA's), (17, 34182),

Gene: JoeDirt_41 Start: 33886, Stop: 33996, Start Num: 16

Candidate Starts for JoeDirt_41:

(1, 33628), (2, 33643), (3, 33664), (4, 33670), (5, 33745), (7, 33796), (8, 33805), (10, 33814), (11, 33826), (13, 33865), (Start: 16 @33886 has 41 MA's), (17, 33913), (22, 33940), (23, 33946),

Gene: Kahlid_44 Start: 35255, Stop: 35365, Start Num: 16

Candidate Starts for Kahlid_44:

(1, 35000), (3, 35036), (4, 35042), (9, 35177), (10, 35183), (Start: 16 @35255 has 41 MA's), (17, 35282),

Gene: LeBron_42 Start: 33930, Stop: 34040, Start Num: 16

Candidate Starts for LeBron_42:

(1, 33672), (2, 33687), (3, 33708), (4, 33714), (5, 33789), (7, 33840), (8, 33849), (10, 33858), (11, 33870), (13, 33909), (Start: 16 @33930 has 41 MA's), (17, 33957), (22, 33984), (23, 33990),

Gene: Lewan_44 Start: 35242, Stop: 35352, Start Num: 16

Candidate Starts for Lewan_44:

(1, 34987), (3, 35023), (4, 35029), (9, 35164), (10, 35170), (Start: 16 @35242 has 41 MA's), (17, 35269),

Gene: LilDestine_44 Start: 35247, Stop: 35357, Start Num: 16

Candidate Starts for LilDestine_44:

(1, 34992), (3, 35028), (4, 35034), (9, 35169), (10, 35175), (Start: 16 @35247 has 41 MA's), (17, 35274),

Gene: MAckerman_42 Start: 33923, Stop: 34033, Start Num: 16

Candidate Starts for MAckerman_42:

(1, 33665), (2, 33680), (3, 33701), (4, 33707), (7, 33833), (8, 33842), (13, 33902), (14, 33911), (Start: 16 @33923 has 41 MA's), (17, 33950), (19, 33962), (23, 33983),

Gene: Miley16_44 Start: 35249, Stop: 35359, Start Num: 16

Candidate Starts for Miley16_44:

(1, 34994), (3, 35030), (4, 35036), (9, 35171), (10, 35177), (Start: 16 @35249 has 41 MA's), (17, 35276),

Gene: Nicholasp3_44 Start: 35250, Stop: 35360, Start Num: 16

Candidate Starts for Nicholasp3_44:

(1, 34995), (3, 35031), (4, 35037), (9, 35172), (10, 35178), (Start: 16 @35250 has 41 MA's), (17, 35277),

Gene: OhShagHennessy_41 Start: 33876, Stop: 33986, Start Num: 16

Candidate Starts for OhShagHennessy_41:

(1, 33618), (2, 33633), (3, 33654), (4, 33660), (5, 33735), (7, 33786), (8, 33795), (10, 33804), (11, 33816), (13, 33855), (Start: 16 @33876 has 41 MA's), (17, 33903), (22, 33930), (23, 33936),

Gene: OverPar_44 Start: 35281, Stop: 35391, Start Num: 16

Candidate Starts for OverPar_44:

(1, 35026), (3, 35062), (4, 35068), (9, 35203), (10, 35209), (Start: 16 @35281 has 41 MA's), (17, 35308),

Gene: Poochiewood_41 Start: 33883, Stop: 34014, Start Num: 13

Candidate Starts for Poochiewood_41:

(1, 33646), (2, 33661), (3, 33682), (4, 33688), (5, 33763), (7, 33814), (8, 33823), (10, 33832), (11, 33844), (13, 33883), (Start: 16 @33904 has 41 MA's), (17, 33931), (22, 33958), (23, 33964),

Gene: Rose5_41 Start: 33918, Stop: 34028, Start Num: 16

Candidate Starts for Rose5_41:

(1, 33660), (2, 33675), (3, 33696), (4, 33702), (7, 33828), (8, 33837), (10, 33846), (11, 33858), (13, 33897), (Start: 16 @33918 has 41 MA's), (17, 33945), (22, 33972), (23, 33978),

Gene: Rumpelstiltskin_44 Start: 35516, Stop: 35626, Start Num: 16

Candidate Starts for Rumpelstiltskin_44:

(1, 35261), (3, 35297), (4, 35303), (9, 35438), (10, 35444), (Start: 16 @35516 has 41 MA's), (17, 35543),

Gene: Silverleaf_41 Start: 33918, Stop: 34028, Start Num: 16

Candidate Starts for Silverleaf_41:

(1, 33660), (2, 33675), (3, 33696), (4, 33702), (7, 33828), (8, 33837), (10, 33846), (11, 33858), (13, 33897), (14, 33906), (Start: 16 @33918 has 41 MA's), (17, 33945), (22, 33972), (23, 33978),

Gene: Tyson_41 Start: 33919, Stop: 34029, Start Num: 16

Candidate Starts for Tyson_41:

(1, 33661), (2, 33676), (3, 33697), (4, 33703), (7, 33829), (8, 33838), (11, 33859), (13, 33898), (14, 33907), (Start: 16 @33919 has 41 MA's), (17, 33946), (22, 33973), (23, 33979),

Gene: UPIE_42 Start: 33902, Stop: 34012, Start Num: 16

Candidate Starts for UPIE_42:

(1, 33644), (2, 33659), (3, 33680), (4, 33686), (5, 33761), (7, 33812), (8, 33821), (10, 33830), (11, 33842), (13, 33881), (Start: 16 @33902 has 41 MA's), (17, 33929), (22, 33956), (23, 33962),

Gene: Underpass_44 Start: 35250, Stop: 35360, Start Num: 16

Candidate Starts for Underpass_44:

(1, 34995), (3, 35031), (4, 35037), (9, 35172), (10, 35178), (Start: 16 @35250 has 41 MA's), (17, 35277),

Gene: Vetrix_44 Start: 35256, Stop: 35366, Start Num: 16

Candidate Starts for Vetrix_44:

(1, 35001), (3, 35037), (4, 35043), (9, 35178), (10, 35184), (Start: 16 @35256 has 41 MA's), (17, 35283),

Gene: Wamburgrxpress_42 Start: 33917, Stop: 34027, Start Num: 16

Candidate Starts for Wamburgrxpress_42:

(1, 33659), (2, 33674), (3, 33695), (4, 33701), (5, 33776), (7, 33827), (8, 33836), (10, 33845), (11, 33857), (13, 33896), (Start: 16 @33917 has 41 MA's), (17, 33944), (22, 33971), (23, 33977),

Gene: Wigglewigggle_44 Start: 35282, Stop: 35392, Start Num: 16

Candidate Starts for Wigglewigggle_44:

(1, 35027), (3, 35063), (4, 35069), (9, 35204), (10, 35210), (Start: 16 @35282 has 41 MA's), (17, 35309),

Gene: Wilder_44 Start: 35255, Stop: 35365, Start Num: 16

Candidate Starts for Wilder_44:

(1, 35000), (3, 35036), (4, 35042), (9, 35177), (10, 35183), (Start: 16 @35255 has 41 MA's), (17, 35282),

Gene: Winky_44 Start: 35249, Stop: 35359, Start Num: 16

Candidate Starts for Winky_44:

(1, 34994), (3, 35030), (4, 35036), (9, 35171), (10, 35177), (Start: 16 @35249 has 41 MA's), (17, 35276),

Gene: Wyatt2_42 Start: 33918, Stop: 34028, Start Num: 16

Candidate Starts for Wyatt2_42:

(1, 33660), (2, 33675), (3, 33696), (4, 33702), (7, 33828), (8, 33837), (10, 33846), (11, 33858), (13, 33897), (Start: 16 @33918 has 41 MA's), (17, 33945), (22, 33972), (23, 33978),

Gene: Zakai_44 Start: 35507, Stop: 35617, Start Num: 16

Candidate Starts for Zakai_44:

(1, 35252), (3, 35288), (4, 35294), (9, 35429), (10, 35435), (Start: 16 @35507 has 41 MA's), (17, 35534),

Gene: Zaria_42 Start: 33933, Stop: 34043, Start Num: 16

Candidate Starts for Zaria_42:

(1, 33675), (2, 33690), (3, 33711), (4, 33717), (7, 33843), (8, 33852), (10, 33861), (11, 33873), (13, 33912), (Start: 16 @33933 has 41 MA's), (17, 33960), (22, 33987), (23, 33993),