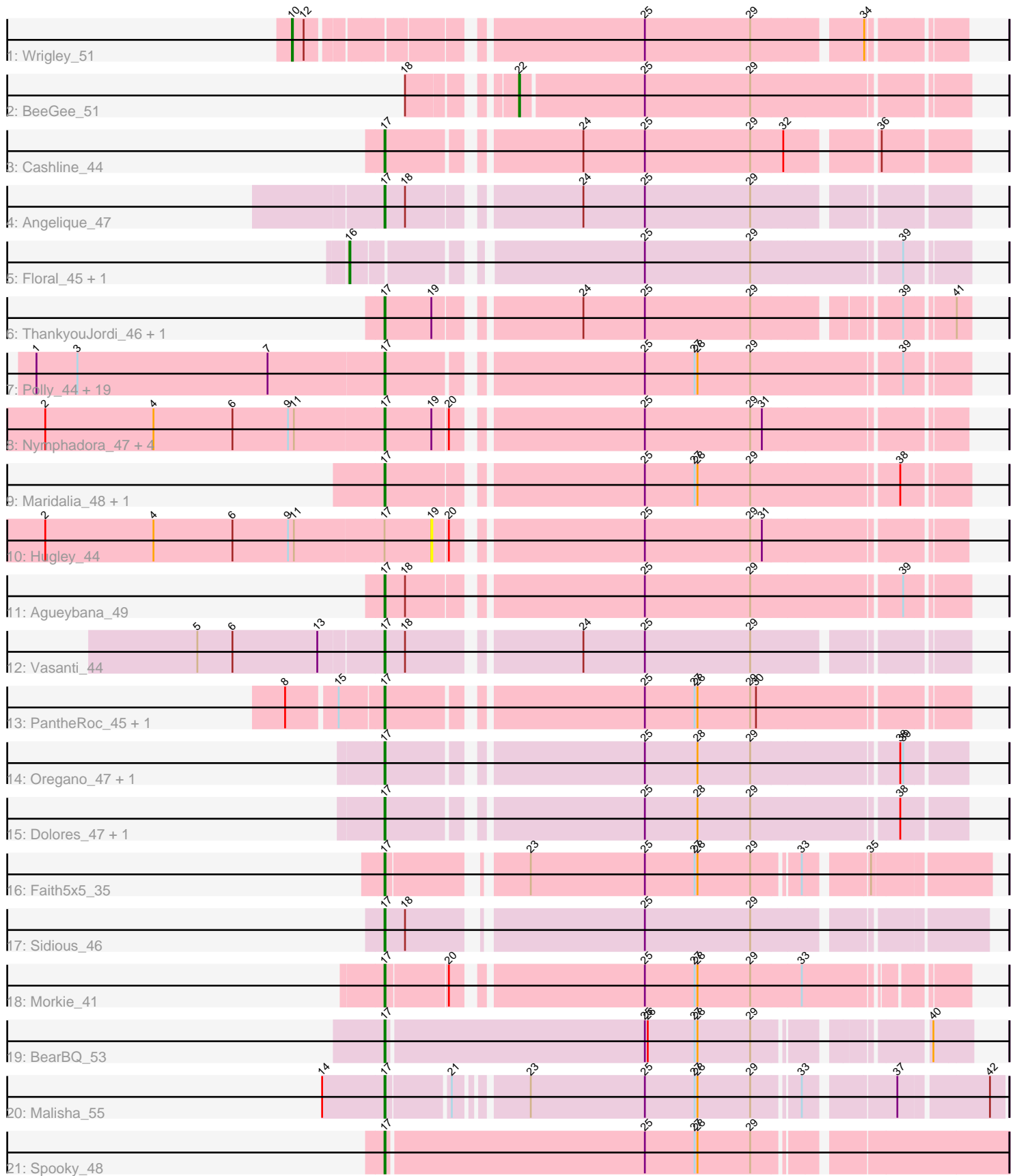


Pham 85784



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 85784 Report

This analysis was run 04/28/24 on database version 559.

Pham number 85784 has 50 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Wrigley_51
- Track 2 : BeeGee_51
- Track 3 : Cashline_44
- Track 4 : Angelique_47
- Track 5 : Floral_45, Pollux_47
- Track 6 : ThankyouJordi_46, WelcomeAyanna_46
- Track 7 : Polly_44, Suscepit_47, Manasvini_48, Eudoria_47, Yeet412_42, AlumE_47, Attis_42, Tayonia_47, LordFarquaad_44, Zirinka_44, EdnaMode_41, Trumpet_47, BoyNamedSue_47, Antonio_47, Pickett_40, Zameen_47, Neobush_47, SoilAssassin_42, Kita_48, Bialota_45
- Track 8 : Nymphadora_47, TimTam_47, Herod_47, Eviarto_47, BatStarr_47
- Track 9 : Maridalia_48, Bunnybear_40
- Track 10 : Hugley_44
- Track 11 : Agueybana_49
- Track 12 : Vasanti_44
- Track 13 : PantheRoc_45, BaxterFox_46
- Track 14 : Oregano_47, Annalisa_45
- Track 15 : Dolores_47, WinkNick_48
- Track 16 : Faith5x5_35
- Track 17 : Sidious_46
- Track 18 : Morkie_41
- Track 19 : BearBQ_53
- Track 20 : Malisha_55
- Track 21 : Spooky_48

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

The start number called the most often in the published annotations is 17, it was called in 42 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana_49, AlumE_47, Angelique_47, Annalisa_45, Antonio_47, Attis_42, BatStarr_47, BaxterFox_46, BearBQ_53, Bialota_45, BoyNamedSue_47, Bunnybear_40, Cashline_44, Dolores_47, EdnaMode_41, Eudoria_47, Eviarto_47,

Faith5x5_35, Herod_47, Kita_48, LordFarquaad_44, Malisha_55, Manasvini_48, Maridalia_48, Morkie_41, Neobush_47, Nymphadora_47, Oregano_47, PantheRoc_45, Pickett_40, Polly_44, Sidious_46, SoilAssassin_42, Spooky_48, Suscepit_47, Tayonia_47, ThankyouJordi_46, TimTam_47, Trumpet_47, Vasanti_44, WelcomeAyanna_46, WinkNick_48, Yeet412_42, Zameen_47, Zirinka_44,

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

- Hugley_44,

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

- BeeGee_51, Floral_45, Pollux_47, Wrigley_51,

Summary by start number:

Start 10:

- Found in 1 of 50 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wrigley_51 (CY),

Start 16:

- Found in 2 of 50 (4.0%) of genes in pham
- Manual Annotations of this start: 2 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Floral_45 (CY1), Pollux_47 (CY1),

Start 17:

- Found in 46 of 50 (92.0%) of genes in pham
- Manual Annotations of this start: 42 of 46
- Called 97.8% of time when present
- Phage (with cluster) where this start called: Agueybana_49 (CZ1), AlumE_47 (CZ1), Angelique_47 (CY1), Annalisa_45 (CZ4), Antonio_47 (CZ1), Attis_42 (CZ2), BatStarr_47 (CZ1), BaxterFox_46 (CZ3), BearBQ_53 (DN), Bialota_45 (CZ1), BoyNamedSue_47 (CZ1), Bunnybear_40 (CZ), Cashline_44 (CY), Dolores_47 (CZ4), EdnaMode_41 (CZ2), Eudoria_47 (CZ1), Eviarto_47 (CZ1), Faith5x5_35 (CZ6), Herod_47 (CZ1), Kita_48 (CZ1), LordFarquaad_44 (CZ2), Malisha_55 (DN), Manasvini_48 (CZ1), Maridalia_48 (CZ1), Morkie_41 (DH), Neobush_47 (CZ1), Nymphadora_47 (CZ1), Oregano_47 (CZ4), PantheRoc_45 (CZ3), Pickett_40 (CZ2), Polly_44 (CZ1), Sidious_46 (CZ7), SoilAssassin_42 (CZ2), Spooky_48 (DN2), Suscepit_47 (CZ1), Tayonia_47 (CZ1), ThankyouJordi_46 (CZ1), TimTam_47 (CZ1), Trumpet_47 (CZ1), Vasanti_44 (CZ2), WelcomeAyanna_46 (CZ1), WinkNick_48 (CZ4), Yeet412_42 (CZ2), Zameen_47 (CZ1), Zirinka_44 (CZ1),

Start 19:

- Found in 8 of 50 (16.0%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Hugley_44 (CZ1),

Start 22:

- Found in 1 of 50 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BeeGee_51 (CY),

Summary by clusters:

There are 12 clusters represented in this pham: DN, CY1, DH, CZ2, CZ3, CZ1, CZ6, CZ7, CZ4, CZ, CY, DN2,

Info for manual annotations of cluster CY:

- Start number 10 was manually annotated 1 time for cluster CY.
- Start number 17 was manually annotated 1 time for cluster CY.
- Start number 22 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 16 was manually annotated 2 times for cluster CY1.
- Start number 17 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 17 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 17 was manually annotated 23 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 17 was manually annotated 6 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 17 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 17 was manually annotated 3 times for cluster CZ4.

Info for manual annotations of cluster CZ6:

- Start number 17 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ7:

- Start number 17 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DH:

- Start number 17 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 17 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN2:

- Start number 17 was manually annotated 1 time for cluster DN2.

Gene Information:

Gene: Agueybana_49 Start: 36977, Stop: 37528, Start Num: 17

Candidate Starts for Agueybana_49:

(Start: 17 @36977 has 42 MA's), (18, 36998), (25, 37217), (29, 37325), (39, 37469),

Gene: AlumE_47 Start: 35480, Stop: 36028, Start Num: 17

Candidate Starts for AlumE_47:

(1, 35126), (3, 35168), (7, 35363), (Start: 17 @35480 has 42 MA's), (25, 35717), (27, 35768), (28, 35771), (29, 35825), (39, 35969),

Gene: Angelique_47 Start: 36703, Stop: 37245, Start Num: 17

Candidate Starts for Angelique_47:

(Start: 17 @36703 has 42 MA's), (18, 36724), (24, 36880), (25, 36943), (29, 37051),

Gene: Annalisa_45 Start: 32699, Stop: 33247, Start Num: 17

Candidate Starts for Annalisa_45:

(Start: 17 @32699 has 42 MA's), (25, 32936), (28, 32990), (29, 33044), (38, 33185), (39, 33188),

Gene: Antonio_47 Start: 34753, Stop: 35301, Start Num: 17

Candidate Starts for Antonio_47:

(1, 34399), (3, 34441), (7, 34636), (Start: 17 @34753 has 42 MA's), (25, 34990), (27, 35041), (28, 35044), (29, 35098), (39, 35242),

Gene: Attis_42 Start: 31886, Stop: 32434, Start Num: 17

Candidate Starts for Attis_42:

(1, 31532), (3, 31574), (7, 31769), (Start: 17 @31886 has 42 MA's), (25, 32123), (27, 32174), (28, 32177), (29, 32231), (39, 32375),

Gene: BatStarr_47 Start: 36764, Stop: 37312, Start Num: 17

Candidate Starts for BatStarr_47:

(2, 36419), (4, 36530), (6, 36611), (9, 36668), (11, 36674), (Start: 17 @36764 has 42 MA's), (19, 36812), (20, 36827), (25, 37004), (29, 37112), (31, 37124),

Gene: BaxterFox_46 Start: 35933, Stop: 36481, Start Num: 17

Candidate Starts for BaxterFox_46:

(8, 35843), (15, 35891), (Start: 17 @35933 has 42 MA's), (25, 36170), (27, 36221), (28, 36224), (29, 36278), (30, 36284),

Gene: BearBQ_53 Start: 37690, Stop: 38241, Start Num: 17

Candidate Starts for BearBQ_53:

(Start: 17 @37690 has 42 MA's), (25, 37951), (26, 37954), (27, 38002), (28, 38005), (29, 38059), (40, 38203),

Gene: BeeGee_51 Start: 36426, Stop: 36860, Start Num: 22

Candidate Starts for BeeGee_51:

(18, 36342), (Start: 22 @36426 has 1 MA's), (25, 36549), (29, 36657),

Gene: Bialota_45 Start: 35505, Stop: 35933, Start Num: 17

Candidate Starts for Bialota_45:

(1, 35151), (3, 35193), (7, 35388), (Start: 17 @35505 has 42 MA's), (25, 35622), (27, 35673), (28, 35676), (29, 35730), (39, 35874),

Gene: BoyNamedSue_47 Start: 35480, Stop: 36028, Start Num: 17

Candidate Starts for BoyNamedSue_47:

(1, 35126), (3, 35168), (7, 35363), (Start: 17 @35480 has 42 MA's), (25, 35717), (27, 35768), (28, 35771), (29, 35825), (39, 35969),

Gene: Bunnybear_40 Start: 33151, Stop: 33702, Start Num: 17

Candidate Starts for Bunnybear_40:

(Start: 17 @33151 has 42 MA's), (25, 33391), (27, 33442), (28, 33445), (29, 33499), (38, 33640),

Gene: Cashline_44 Start: 35395, Stop: 35937, Start Num: 17

Candidate Starts for Cashline_44:

(Start: 17 @35395 has 42 MA's), (24, 35569), (25, 35632), (29, 35740), (32, 35773), (36, 35854),

Gene: Dolores_47 Start: 33778, Stop: 34326, Start Num: 17

Candidate Starts for Dolores_47:

(Start: 17 @33778 has 42 MA's), (25, 34015), (28, 34069), (29, 34123), (38, 34264),

Gene: EdnaMode_41 Start: 30574, Stop: 31122, Start Num: 17

Candidate Starts for EdnaMode_41:

(1, 30220), (3, 30262), (7, 30457), (Start: 17 @30574 has 42 MA's), (25, 30811), (27, 30862), (28, 30865), (29, 30919), (39, 31063),

Gene: Eudoria_47 Start: 34753, Stop: 35301, Start Num: 17

Candidate Starts for Eudoria_47:

(1, 34399), (3, 34441), (7, 34636), (Start: 17 @34753 has 42 MA's), (25, 34990), (27, 35041), (28, 35044), (29, 35098), (39, 35242),

Gene: Eviarto_47 Start: 36740, Stop: 37288, Start Num: 17

Candidate Starts for Eviarto_47:

(2, 36395), (4, 36506), (6, 36587), (9, 36644), (11, 36650), (Start: 17 @36740 has 42 MA's), (19, 36788), (20, 36803), (25, 36980), (29, 37088), (31, 37100),

Gene: Faith5x5_35 Start: 27861, Stop: 28412, Start Num: 17

Candidate Starts for Faith5x5_35:

(Start: 17 @27861 has 42 MA's), (23, 27978), (25, 28095), (27, 28146), (28, 28149), (29, 28203), (33, 28245), (35, 28299),

Gene: Floral_45 Start: 36585, Stop: 37157, Start Num: 16

Candidate Starts for Floral_45:

(Start: 16 @36585 has 2 MA's), (25, 36846), (29, 36954), (39, 37098),

Gene: Herod_47 Start: 36764, Stop: 37312, Start Num: 17

Candidate Starts for Herod_47:

(2, 36419), (4, 36530), (6, 36611), (9, 36668), (11, 36674), (Start: 17 @36764 has 42 MA's), (19, 36812), (20, 36827), (25, 37004), (29, 37112), (31, 37124),

Gene: Hugley_44 Start: 36811, Stop: 37311, Start Num: 19

Candidate Starts for Hugley_44:

(2, 36418), (4, 36529), (6, 36610), (9, 36667), (11, 36673), (Start: 17 @36763 has 42 MA's), (19, 36811), (20, 36826), (25, 37003), (29, 37111), (31, 37123),

Gene: Kita_48 Start: 34762, Stop: 35310, Start Num: 17

Candidate Starts for Kita_48:

(1, 34408), (3, 34450), (7, 34645), (Start: 17 @34762 has 42 MA's), (25, 34999), (27, 35050), (28, 35053), (29, 35107), (39, 35251),

Gene: LordFarquaad_44 Start: 31867, Stop: 32415, Start Num: 17

Candidate Starts for LordFarquaad_44:

(1, 31513), (3, 31555), (7, 31750), (Start: 17 @31867 has 42 MA's), (25, 32104), (27, 32155), (28, 32158), (29, 32212), (39, 32356),

Gene: Malisha_55 Start: 36897, Stop: 37463, Start Num: 17

Candidate Starts for Malisha_55:

(14, 36834), (Start: 17 @36897 has 42 MA's), (21, 36957), (23, 37017), (25, 37134), (27, 37185), (28, 37188), (29, 37242), (33, 37284), (37, 37365), (42, 37449),

Gene: Manasvini_48 Start: 34777, Stop: 35325, Start Num: 17

Candidate Starts for Manasvini_48:

(1, 34423), (3, 34465), (7, 34660), (Start: 17 @34777 has 42 MA's), (25, 35014), (27, 35065), (28, 35068), (29, 35122), (39, 35266),

Gene: Maridalia_48 Start: 34897, Stop: 35448, Start Num: 17

Candidate Starts for Maridalia_48:

(Start: 17 @34897 has 42 MA's), (25, 35137), (27, 35188), (28, 35191), (29, 35245), (38, 35386),

Gene: Morkie_41 Start: 30208, Stop: 30747, Start Num: 17

Candidate Starts for Morkie_41:

(Start: 17 @30208 has 42 MA's), (20, 30268), (25, 30445), (27, 30496), (28, 30499), (29, 30553), (33, 30604),

Gene: Neobush_47 Start: 34747, Stop: 35295, Start Num: 17

Candidate Starts for Neobush_47:

(1, 34393), (3, 34435), (7, 34630), (Start: 17 @34747 has 42 MA's), (25, 34984), (27, 35035), (28, 35038), (29, 35092), (39, 35236),

Gene: Nymphadora_47 Start: 36764, Stop: 37312, Start Num: 17

Candidate Starts for Nymphadora_47:

(2, 36419), (4, 36530), (6, 36611), (9, 36668), (11, 36674), (Start: 17 @36764 has 42 MA's), (19, 36812), (20, 36827), (25, 37004), (29, 37112), (31, 37124),

Gene: Oregano_47 Start: 33332, Stop: 33880, Start Num: 17

Candidate Starts for Oregano_47:

(Start: 17 @33332 has 42 MA's), (25, 33569), (28, 33623), (29, 33677), (38, 33818), (39, 33821),

Gene: PantheRoc_45 Start: 34908, Stop: 35456, Start Num: 17

Candidate Starts for PantheRoc_45:

(8, 34818), (15, 34866), (Start: 17 @34908 has 42 MA's), (25, 35145), (27, 35196), (28, 35199), (29, 35253), (30, 35259),

Gene: Pickett_40 Start: 29050, Stop: 29598, Start Num: 17

Candidate Starts for Pickett_40:

(1, 28696), (3, 28738), (7, 28933), (Start: 17 @29050 has 42 MA's), (25, 29287), (27, 29338), (28, 29341), (29, 29395), (39, 29539),

Gene: Pollux_47 Start: 36585, Stop: 37157, Start Num: 16

Candidate Starts for Pollux_47:

(Start: 16 @36585 has 2 MA's), (25, 36846), (29, 36954), (39, 37098),

Gene: Polly_44 Start: 34196, Stop: 34744, Start Num: 17

Candidate Starts for Polly_44:

(1, 33842), (3, 33884), (7, 34079), (Start: 17 @34196 has 42 MA's), (25, 34433), (27, 34484), (28, 34487), (29, 34541), (39, 34685),

Gene: Sidious_46 Start: 35886, Stop: 36443, Start Num: 17

Candidate Starts for Sidious_46:

(Start: 17 @35886 has 42 MA's), (18, 35907), (25, 36123), (29, 36231),

Gene: SoilAssassin_42 Start: 31885, Stop: 32433, Start Num: 17

Candidate Starts for SoilAssassin_42:

(1, 31531), (3, 31573), (7, 31768), (Start: 17 @31885 has 42 MA's), (25, 32122), (27, 32173), (28, 32176), (29, 32230), (39, 32374),

Gene: Spooky_48 Start: 34511, Stop: 35116, Start Num: 17

Candidate Starts for Spooky_48:

(Start: 17 @34511 has 42 MA's), (25, 34772), (27, 34823), (28, 34826), (29, 34880),

Gene: Suscepit_47 Start: 34754, Stop: 35302, Start Num: 17

Candidate Starts for Suscepit_47:

(1, 34400), (3, 34442), (7, 34637), (Start: 17 @34754 has 42 MA's), (25, 34991), (27, 35042), (28, 35045), (29, 35099), (39, 35243),

Gene: Tayonia_47 Start: 34753, Stop: 35301, Start Num: 17

Candidate Starts for Tayonia_47:

(1, 34399), (3, 34441), (7, 34636), (Start: 17 @34753 has 42 MA's), (25, 34990), (27, 35041), (28, 35044), (29, 35098), (39, 35242),

Gene: ThankyouJordi_46 Start: 36654, Stop: 37190, Start Num: 17

Candidate Starts for ThankyouJordi_46:

(Start: 17 @36654 has 42 MA's), (19, 36702), (24, 36831), (25, 36894), (29, 37002), (39, 37131), (41, 37176),

Gene: TimTam_47 Start: 36764, Stop: 37312, Start Num: 17

Candidate Starts for TimTam_47:

(2, 36419), (4, 36530), (6, 36611), (9, 36668), (11, 36674), (Start: 17 @36764 has 42 MA's), (19, 36812), (20, 36827), (25, 37004), (29, 37112), (31, 37124),

Gene: Trumpet_47 Start: 34754, Stop: 35302, Start Num: 17

Candidate Starts for Trumpet_47:

(1, 34400), (3, 34442), (7, 34637), (Start: 17 @34754 has 42 MA's), (25, 34991), (27, 35042), (28, 35045), (29, 35099), (39, 35243),

Gene: Vasanti_44 Start: 31751, Stop: 32296, Start Num: 17

Candidate Starts for Vasanti_44:

(5, 31565), (6, 31601), (13, 31688), (Start: 17 @31751 has 42 MA's), (18, 31772), (24, 31931), (25, 31994), (29, 32102),

Gene: WelcomeAyanna_46 Start: 36801, Stop: 37337, Start Num: 17

Candidate Starts for WelcomeAyanna_46:

(Start: 17 @36801 has 42 MA's), (19, 36849), (24, 36978), (25, 37041), (29, 37149), (39, 37278), (41, 37323),

Gene: WinkNick_48 Start: 33701, Stop: 34249, Start Num: 17

Candidate Starts for WinkNick_48:

(Start: 17 @33701 has 42 MA's), (25, 33938), (28, 33992), (29, 34046), (38, 34187),

Gene: Wrigley_51 Start: 36267, Stop: 36875, Start Num: 10

Candidate Starts for Wrigley_51:

(Start: 10 @36267 has 1 MA's), (12, 36279), (25, 36579), (29, 36687), (34, 36789),

Gene: Yeet412_42 Start: 31886, Stop: 32434, Start Num: 17

Candidate Starts for Yeet412_42:

(1, 31532), (3, 31574), (7, 31769), (Start: 17 @31886 has 42 MA's), (25, 32123), (27, 32174), (28, 32177), (29, 32231), (39, 32375),

Gene: Zameen_47 Start: 34753, Stop: 35301, Start Num: 17

Candidate Starts for Zameen_47:

(1, 34399), (3, 34441), (7, 34636), (Start: 17 @34753 has 42 MA's), (25, 34990), (27, 35041), (28, 35044), (29, 35098), (39, 35242),

Gene: Zirinka_44 Start: 35493, Stop: 35921, Start Num: 17

Candidate Starts for Zirinka_44:

(1, 35139), (3, 35181), (7, 35376), (Start: 17 @35493 has 42 MA's), (25, 35610), (27, 35661), (28, 35664), (29, 35718), (39, 35862),