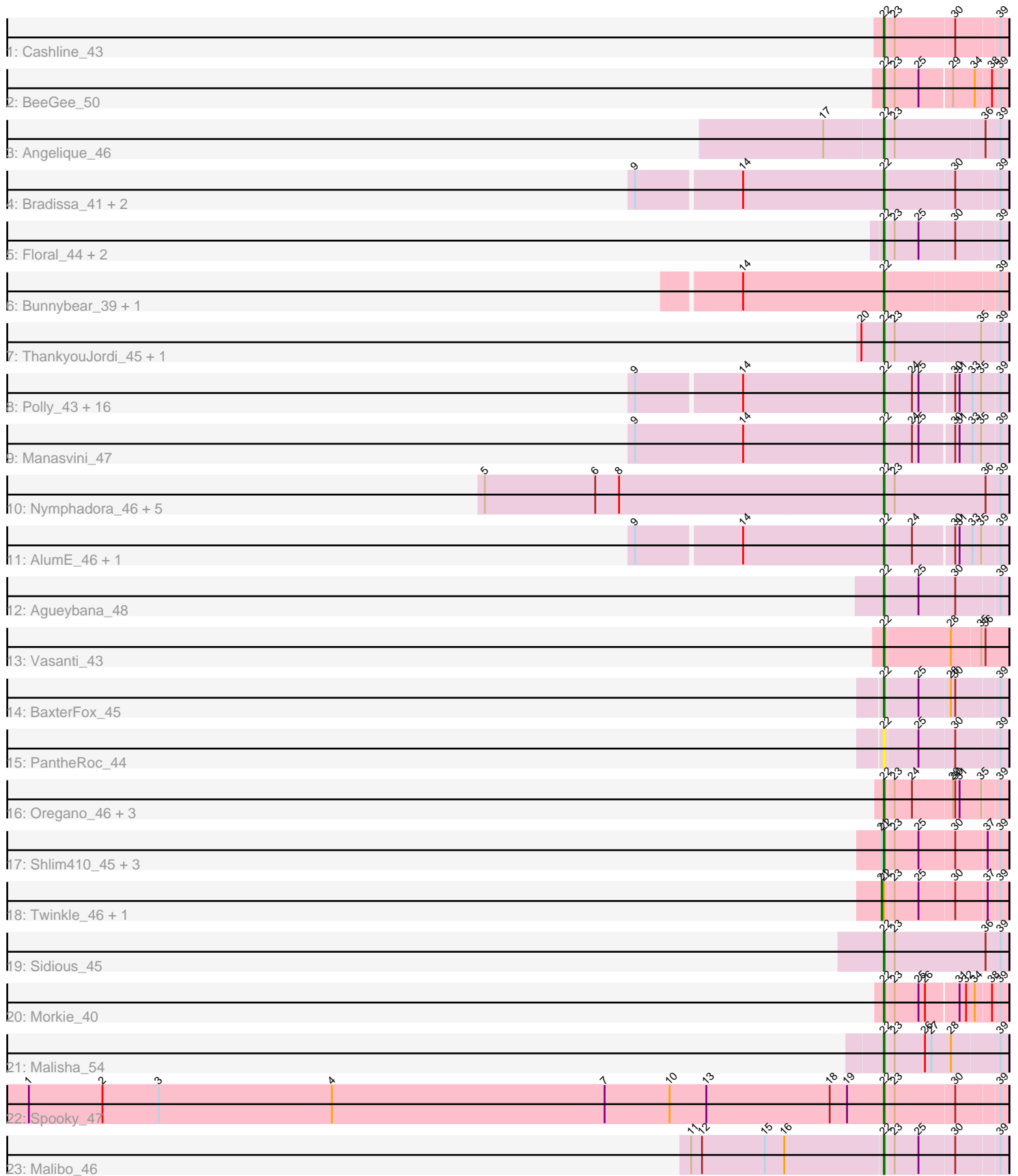


Pham 1624



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 1624 Report

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

Pham number 1624 has 58 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Cashline_43
- Track 2 : BeeGee_50
- Track 3 : Angelique_46
- Track 4 : Bradissa_41, EnalisNailo_40, Lilas_43
- Track 5 : Floral_44, Posh_48, Pollux_46
- Track 6 : Bunnybear_39, Maridalia_47
- Track 7 : ThankyouJordi_45, WelcomeAyanna_45
- Track 8 : Polly_43, Antonio_46, Suscepit_46, Eudoria_46, Pickett_39, Yeet412_41, LordFarquaad_43, Attis_41, Tayonia_46, Zirinka_43, EdnaMode_40, Neobush_46, Trumpet_46, Zameen_46, SoilAssassin_41, Bialota_44, Kita_47
- Track 9 : Manasvini_47
- Track 10 : Nymphadora_46, TimTam_46, Herod_46, Eviarto_46, Hugley_43, BatStarr_46
- Track 11 : AlumE_46, BoyNamedSue_46
- Track 12 : Agueybana_48
- Track 13 : Vasanti_43
- Track 14 : BaxterFox_45
- Track 15 : PantheRoc_44
- Track 16 : Oregano_46, Dolores_46, WinkNick_47, Annalisa_44
- Track 17 : Shlim410_45, Adora_44, Mcklovin_43, Howe_47
- Track 18 : Twinkle_46, Hortense_47
- Track 19 : Sidious_45
- Track 20 : Morkie_40
- Track 21 : Malisha_54
- Track 22 : Spooky_47
- Track 23 : Malibo_46

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

The start number called the most often in the published annotations is 22, it was called in 52 of the 54 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_44, Agueybana_48, AlumE_46, Angelique_46, Annalisa_44, Antonio_46, Attis_41, BatStarr_46, BaxterFox_45, BeeGee_50, Bialota_44, BoyNamedSue_46, Bradissa_41, Bunnybear_39, Cashline_43, Dolores_46, EdnaMode_40, EnalisNailo_40, Eudoria_46, Eviarto_46, Floral_44, Herod_46, Howe_47, Hugley_43, Kita_47, Lilas_43, LordFarquaad_43, Malibo_46, Malisha_54, Manasvini_47, Maridalia_47, Mcklovin_43, Morkie_40, Neobush_46, Nymphadora_46, Oregano_46, PantheRoc_44, Pickett_39, Pollux_46, Polly_43, Posh_48, Shlim410_45, Sidious_45, SoilAssassin_41, Spooky_47, Suscepit_46, Tayonia_46, ThankyouJordi_45, TimTam_46, Trumpet_46, Vasanti_43, WelcomeAyanna_45, WinkNick_47, Yeet412_41, Zameen_46, Zirinka_43,

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

- Hortense_47, Twinkle_46,

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

-

Summary by start number:

Start 21:

- Found in 6 of 58 (10.3%) of genes in pham
- Manual Annotations of this start: 2 of 54
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Hortense_47 (CZ4), Twinkle_46 (CZ4),

Start 22:

- Found in 58 of 58 (100.0%) of genes in pham
- Manual Annotations of this start: 52 of 54
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Adora_44 (CZ4), Agueybana_48 (CZ1), AlumE_46 (CZ1), Angelique_46 (CY1), Annalisa_44 (CZ4), Antonio_46 (CZ1), Attis_41 (CZ2), BatStarr_46 (CZ1), BaxterFox_45 (CZ3), BeeGee_50 (CY), Bialota_44 (CZ1), BoyNamedSue_46 (CZ1), Bradissa_41 (CY1), Bunnybear_39 (CZ), Cashline_43 (CY), Dolores_46 (CZ4), EdnaMode_40 (CZ2), EnalisNailo_40 (CY1), Eudoria_46 (CZ1), Eviarto_46 (CZ1), Floral_44 (CY1), Herod_46 (CZ1), Howe_47 (CZ4), Hugley_43 (CZ1), Kita_47 (CZ1), Lilas_43 (CY1), LordFarquaad_43 (CZ2), Malibo_46 (DW), Malisha_54 (DN), Manasvini_47 (CZ1), Maridalia_47 (CZ1), Mcklovin_43 (CZ4), Morkie_40 (DH), Neobush_46 (CZ1), Nymphadora_46 (CZ1), Oregano_46 (CZ4), PantheRoc_44 (CZ3), Pickett_39 (CZ2), Pollux_46 (CY1), Polly_43 (CZ1), Posh_48 (CY), Shlim410_45 (CZ4), Sidious_45 (CZ7), SoilAssassin_41 (CZ2), Spooky_47 (DN2), Suscepit_46 (CZ1), Tayonia_46 (CZ1), ThankyouJordi_45 (CZ1), TimTam_46 (CZ1), Trumpet_46 (CZ1), Vasanti_43 (CZ2), WelcomeAyanna_45 (CZ1), WinkNick_47 (CZ4), Yeet412_41 (CZ2), Zameen_46 (CZ1), Zirinka_43 (CZ1),

Summary by clusters:

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

Info for manual annotations of cluster CY:

- Start number 22 was manually annotated 3 times for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 22 was manually annotated 6 times for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 22 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 22 was manually annotated 23 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 22 was manually annotated 6 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 22 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 21 was manually annotated 2 times for cluster CZ4.
- Start number 22 was manually annotated 7 times for cluster CZ4.

Info for manual annotations of cluster CZ7:

- Start number 22 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DH:

- Start number 22 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 22 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN2:

- Start number 22 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DW:

- Start number 22 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: Adora_44 Start: 35499, Stop: 35660, Start Num: 22

Candidate Starts for Adora_44:

(Start: 21 @35496 has 2 MA's), (Start: 22 @35499 has 52 MA's), (23, 35511), (25, 35544), (30, 35592), (37, 35634), (39, 35649),

Gene: Agueybana_48 Start: 36819, Stop: 36980, Start Num: 22

Candidate Starts for Agueybana_48:

(Start: 22 @36819 has 52 MA's), (25, 36864), (30, 36912), (39, 36969),

Gene: AlumE_46 Start: 35325, Stop: 35483, Start Num: 22

Candidate Starts for AlumE_46:

(9, 34989), (14, 35130), (Start: 22 @35325 has 52 MA's), (24, 35361), (30, 35415), (31, 35421), (33, 35439), (35, 35451), (39, 35472),

Gene: Angelique_46 Start: 36539, Stop: 36706, Start Num: 22

Candidate Starts for Angelique_46:

(17, 36458), (Start: 22 @36539 has 52 MA's), (23, 36551), (36, 36674), (39, 36695),

Gene: Annalisa_44 Start: 32541, Stop: 32702, Start Num: 22

Candidate Starts for Annalisa_44:

(Start: 22 @32541 has 52 MA's), (23, 32553), (24, 32577), (29, 32631), (30, 32634), (31, 32640), (35, 32670), (39, 32691),

Gene: Antonio_46 Start: 34598, Stop: 34756, Start Num: 22

Candidate Starts for Antonio_46:

(9, 34262), (14, 34403), (Start: 22 @34598 has 52 MA's), (24, 34634), (25, 34643), (30, 34688), (31, 34694), (33, 34712), (35, 34724), (39, 34745),

Gene: Attis_41 Start: 31731, Stop: 31889, Start Num: 22

Candidate Starts for Attis_41:

(9, 31395), (14, 31536), (Start: 22 @31731 has 52 MA's), (24, 31767), (25, 31776), (30, 31821), (31, 31827), (33, 31845), (35, 31857), (39, 31878),

Gene: BatStarr_46 Start: 36594, Stop: 36767, Start Num: 22

Candidate Starts for BatStarr_46:

(5, 36042), (6, 36195), (8, 36228), (Start: 22 @36594 has 52 MA's), (23, 36609), (36, 36735), (39, 36756),

Gene: BaxterFox_45 Start: 35775, Stop: 35936, Start Num: 22

Candidate Starts for BaxterFox_45:

(Start: 22 @35775 has 52 MA's), (25, 35820), (28, 35862), (30, 35868), (39, 35925),

Gene: BeeGee_50 Start: 36268, Stop: 36429, Start Num: 22

Candidate Starts for BeeGee_50:

(Start: 22 @36268 has 52 MA's), (23, 36280), (25, 36313), (29, 36355), (34, 36385), (38, 36406), (39, 36418),

Gene: Bialota_44 Start: 35350, Stop: 35508, Start Num: 22

Candidate Starts for Bialota_44:

(9, 35014), (14, 35155), (Start: 22 @35350 has 52 MA's), (24, 35386), (25, 35395), (30, 35440), (31, 35446), (33, 35464), (35, 35476), (39, 35497),

Gene: BoyNamedSue_46 Start: 35325, Stop: 35483, Start Num: 22

Candidate Starts for BoyNamedSue_46:

(9, 34989), (14, 35130), (Start: 22 @35325 has 52 MA's), (24, 35361), (30, 35415), (31, 35421), (33, 35439), (35, 35451), (39, 35472),

Gene: Bradissa_41 Start: 34639, Stop: 34800, Start Num: 22

Candidate Starts for Bradissa_41:

(9, 34303), (14, 34444), (Start: 22 @34639 has 52 MA's), (30, 34732), (39, 34789),

Gene: Bunnybear_39 Start: 32996, Stop: 33154, Start Num: 22

Candidate Starts for Bunnybear_39:

(14, 32801), (Start: 22 @32996 has 52 MA's), (39, 33143),

Gene: Cashline_43 Start: 35237, Stop: 35398, Start Num: 22

Candidate Starts for Cashline_43:

(Start: 22 @35237 has 52 MA's), (23, 35249), (30, 35330), (39, 35387),

Gene: Dolores_46 Start: 33620, Stop: 33781, Start Num: 22

Candidate Starts for Dolores_46:

(Start: 22 @33620 has 52 MA's), (23, 33632), (24, 33656), (29, 33710), (30, 33713), (31, 33719), (35, 33749), (39, 33770),

Gene: EdnaMode_40 Start: 30419, Stop: 30577, Start Num: 22

Candidate Starts for EdnaMode_40:

(9, 30083), (14, 30224), (Start: 22 @30419 has 52 MA's), (24, 30455), (25, 30464), (30, 30509), (31, 30515), (33, 30533), (35, 30545), (39, 30566),

Gene: EnalisNailo_40 Start: 34173, Stop: 34334, Start Num: 22

Candidate Starts for EnalisNailo_40:

(9, 33837), (14, 33978), (Start: 22 @34173 has 52 MA's), (30, 34266), (39, 34323),

Gene: Eudoria_46 Start: 34598, Stop: 34756, Start Num: 22

Candidate Starts for Eudoria_46:

(9, 34262), (14, 34403), (Start: 22 @34598 has 52 MA's), (24, 34634), (25, 34643), (30, 34688), (31, 34694), (33, 34712), (35, 34724), (39, 34745),

Gene: Eviarto_46 Start: 36570, Stop: 36743, Start Num: 22

Candidate Starts for Eviarto_46:

(5, 36018), (6, 36171), (8, 36204), (Start: 22 @36570 has 52 MA's), (23, 36585), (36, 36711), (39, 36732),

Gene: Floral_44 Start: 36427, Stop: 36588, Start Num: 22

Candidate Starts for Floral_44:

(Start: 22 @36427 has 52 MA's), (23, 36439), (25, 36472), (30, 36520), (39, 36577),

Gene: Herod_46 Start: 36594, Stop: 36767, Start Num: 22

Candidate Starts for Herod_46:

(5, 36042), (6, 36195), (8, 36228), (Start: 22 @36594 has 52 MA's), (23, 36609), (36, 36735), (39, 36756),

Gene: Hortense_47 Start: 36851, Stop: 37015, Start Num: 21

Candidate Starts for Hortense_47:

(Start: 21 @36851 has 2 MA's), (Start: 22 @36854 has 52 MA's), (23, 36866), (25, 36899), (30, 36947), (37, 36989), (39, 37004),

Gene: Howe_47 Start: 36854, Stop: 37015, Start Num: 22

Candidate Starts for Howe_47:

(Start: 21 @36851 has 2 MA's), (Start: 22 @36854 has 52 MA's), (23, 36866), (25, 36899), (30, 36947), (37, 36989), (39, 37004),

Gene: Hugley_43 Start: 36593, Stop: 36766, Start Num: 22

Candidate Starts for Hugley_43:

(5, 36041), (6, 36194), (8, 36227), (Start: 22 @36593 has 52 MA's), (23, 36608), (36, 36734), (39, 36755),

Gene: Kita_47 Start: 34607, Stop: 34765, Start Num: 22

Candidate Starts for Kita_47:

(9, 34271), (14, 34412), (Start: 22 @34607 has 52 MA's), (24, 34643), (25, 34652), (30, 34697), (31, 34703), (33, 34721), (35, 34733), (39, 34754),

Gene: Lilas_43 Start: 35884, Stop: 36045, Start Num: 22

Candidate Starts for Lilas_43:

(9, 35548), (14, 35689), (Start: 22 @35884 has 52 MA's), (30, 35977), (39, 36034),

Gene: LordFarquaad_43 Start: 31712, Stop: 31870, Start Num: 22

Candidate Starts for LordFarquaad_43:

(9, 31376), (14, 31517), (Start: 22 @31712 has 52 MA's), (24, 31748), (25, 31757), (30, 31802), (31, 31808), (33, 31826), (35, 31838), (39, 31859),

Gene: Malibo_46 Start: 35482, Stop: 35643, Start Num: 22

Candidate Starts for Malibo_46:

(11, 35218), (12, 35233), (15, 35320), (16, 35347), (Start: 22 @35482 has 52 MA's), (23, 35494), (25, 35527), (30, 35575), (39, 35632),

Gene: Malisha_54 Start: 36733, Stop: 36900, Start Num: 22

Candidate Starts for Malisha_54:

(Start: 22 @36733 has 52 MA's), (23, 36745), (26, 36787), (27, 36796), (28, 36823), (39, 36889),

Gene: Manasvini_47 Start: 34622, Stop: 34780, Start Num: 22

Candidate Starts for Manasvini_47:

(9, 34277), (14, 34427), (Start: 22 @34622 has 52 MA's), (24, 34658), (25, 34667), (30, 34712), (31, 34718), (33, 34736), (35, 34748), (39, 34769),

Gene: Maridalia_47 Start: 34742, Stop: 34900, Start Num: 22

Candidate Starts for Maridalia_47:

(14, 34547), (Start: 22 @34742 has 52 MA's), (39, 34889),

Gene: Mcklovin_43 Start: 38321, Stop: 38482, Start Num: 22

Candidate Starts for Mcklovin_43:

(Start: 21 @38318 has 2 MA's), (Start: 22 @38321 has 52 MA's), (23, 38333), (25, 38366), (30, 38414), (37, 38456), (39, 38471),

Gene: Morkie_40 Start: 30050, Stop: 30211, Start Num: 22

Candidate Starts for Morkie_40:

(Start: 22 @30050 has 52 MA's), (23, 30062), (25, 30095), (26, 30104), (31, 30146), (32, 30155), (34, 30167), (38, 30188), (39, 30200),

Gene: Neobush_46 Start: 34592, Stop: 34750, Start Num: 22

Candidate Starts for Neobush_46:

(9, 34256), (14, 34397), (Start: 22 @34592 has 52 MA's), (24, 34628), (25, 34637), (30, 34682), (31, 34688), (33, 34706), (35, 34718), (39, 34739),

Gene: Nymphadora_46 Start: 36594, Stop: 36767, Start Num: 22

Candidate Starts for Nymphadora_46:

(5, 36042), (6, 36195), (8, 36228), (Start: 22 @36594 has 52 MA's), (23, 36609), (36, 36735), (39, 36756),

Gene: Oregano_46 Start: 33174, Stop: 33335, Start Num: 22

Candidate Starts for Oregano_46:

(Start: 22 @33174 has 52 MA's), (23, 33186), (24, 33210), (29, 33264), (30, 33267), (31, 33273), (35, 33303), (39, 33324),

Gene: PantheRoc_44 Start: 34750, Stop: 34911, Start Num: 22
Candidate Starts for PantheRoc_44:
(Start: 22 @34750 has 52 MA's), (25, 34795), (30, 34843), (39, 34900),

Gene: Pickett_39 Start: 28895, Stop: 29053, Start Num: 22
Candidate Starts for Pickett_39:
(9, 28559), (14, 28700), (Start: 22 @28895 has 52 MA's), (24, 28931), (25, 28940), (30, 28985), (31, 28991), (33, 29009), (35, 29021), (39, 29042),

Gene: Pollux_46 Start: 36427, Stop: 36588, Start Num: 22
Candidate Starts for Pollux_46:
(Start: 22 @36427 has 52 MA's), (23, 36439), (25, 36472), (30, 36520), (39, 36577),

Gene: Polly_43 Start: 34041, Stop: 34199, Start Num: 22
Candidate Starts for Polly_43:
(9, 33705), (14, 33846), (Start: 22 @34041 has 52 MA's), (24, 34077), (25, 34086), (30, 34131), (31, 34137), (33, 34155), (35, 34167), (39, 34188),

Gene: Posh_48 Start: 36284, Stop: 36445, Start Num: 22
Candidate Starts for Posh_48:
(Start: 22 @36284 has 52 MA's), (23, 36296), (25, 36329), (30, 36377), (39, 36434),

Gene: Shlim410_45 Start: 36854, Stop: 37015, Start Num: 22
Candidate Starts for Shlim410_45:
(Start: 21 @36851 has 2 MA's), (Start: 22 @36854 has 52 MA's), (23, 36866), (25, 36899), (30, 36947), (37, 36989), (39, 37004),

Gene: Sidious_45 Start: 35716, Stop: 35889, Start Num: 22
Candidate Starts for Sidious_45:
(Start: 22 @35716 has 52 MA's), (23, 35731), (36, 35857), (39, 35878),

Gene: SoilAssassin_41 Start: 31730, Stop: 31888, Start Num: 22
Candidate Starts for SoilAssassin_41:
(9, 31394), (14, 31535), (Start: 22 @31730 has 52 MA's), (24, 31766), (25, 31775), (30, 31820), (31, 31826), (33, 31844), (35, 31856), (39, 31877),

Gene: Spooky_47 Start: 34353, Stop: 34514, Start Num: 22
Candidate Starts for Spooky_47:
(1, 33171), (2, 33273), (3, 33351), (4, 33591), (7, 33969), (10, 34059), (13, 34110), (18, 34281), (19, 34305), (Start: 22 @34353 has 52 MA's), (23, 34365), (30, 34446), (39, 34503),

Gene: Suscepit_46 Start: 34599, Stop: 34757, Start Num: 22
Candidate Starts for Suscepit_46:
(9, 34263), (14, 34404), (Start: 22 @34599 has 52 MA's), (24, 34635), (25, 34644), (30, 34689), (31, 34695), (33, 34713), (35, 34725), (39, 34746),

Gene: Tayonia_46 Start: 34598, Stop: 34756, Start Num: 22
Candidate Starts for Tayonia_46:
(9, 34262), (14, 34403), (Start: 22 @34598 has 52 MA's), (24, 34634), (25, 34643), (30, 34688), (31, 34694), (33, 34712), (35, 34724), (39, 34745),

Gene: ThankyouJordi_45 Start: 36496, Stop: 36657, Start Num: 22
Candidate Starts for ThankyouJordi_45:

(20, 36466), (Start: 22 @36496 has 52 MA's), (23, 36508), (35, 36625), (39, 36646),

Gene: TimTam_46 Start: 36594, Stop: 36767, Start Num: 22

Candidate Starts for TimTam_46:

(5, 36042), (6, 36195), (8, 36228), (Start: 22 @36594 has 52 MA's), (23, 36609), (36, 36735), (39, 36756),

Gene: Trumpet_46 Start: 34599, Stop: 34757, Start Num: 22

Candidate Starts for Trumpet_46:

(9, 34263), (14, 34404), (Start: 22 @34599 has 52 MA's), (24, 34635), (25, 34644), (30, 34689), (31, 34695), (33, 34713), (35, 34725), (39, 34746),

Gene: Twinkle_46 Start: 37910, Stop: 38074, Start Num: 21

Candidate Starts for Twinkle_46:

(Start: 21 @37910 has 2 MA's), (Start: 22 @37913 has 52 MA's), (23, 37925), (25, 37958), (30, 38006), (37, 38048), (39, 38063),

Gene: Vasanti_43 Start: 31587, Stop: 31754, Start Num: 22

Candidate Starts for Vasanti_43:

(Start: 22 @31587 has 52 MA's), (28, 31677), (35, 31716), (36, 31722),

Gene: WelcomeAyanna_45 Start: 36643, Stop: 36804, Start Num: 22

Candidate Starts for WelcomeAyanna_45:

(20, 36613), (Start: 22 @36643 has 52 MA's), (23, 36655), (35, 36772), (39, 36793),

Gene: WinkNick_47 Start: 33543, Stop: 33704, Start Num: 22

Candidate Starts for WinkNick_47:

(Start: 22 @33543 has 52 MA's), (23, 33555), (24, 33579), (29, 33633), (30, 33636), (31, 33642), (35, 33672), (39, 33693),

Gene: Yeet412_41 Start: 31731, Stop: 31889, Start Num: 22

Candidate Starts for Yeet412_41:

(9, 31395), (14, 31536), (Start: 22 @31731 has 52 MA's), (24, 31767), (25, 31776), (30, 31821), (31, 31827), (33, 31845), (35, 31857), (39, 31878),

Gene: Zameen_46 Start: 34598, Stop: 34756, Start Num: 22

Candidate Starts for Zameen_46:

(9, 34262), (14, 34403), (Start: 22 @34598 has 52 MA's), (24, 34634), (25, 34643), (30, 34688), (31, 34694), (33, 34712), (35, 34724), (39, 34745),

Gene: Zirinka_43 Start: 35338, Stop: 35496, Start Num: 22

Candidate Starts for Zirinka_43:

(9, 35002), (14, 35143), (Start: 22 @35338 has 52 MA's), (24, 35374), (25, 35383), (30, 35428), (31, 35434), (33, 35452), (35, 35464), (39, 35485),