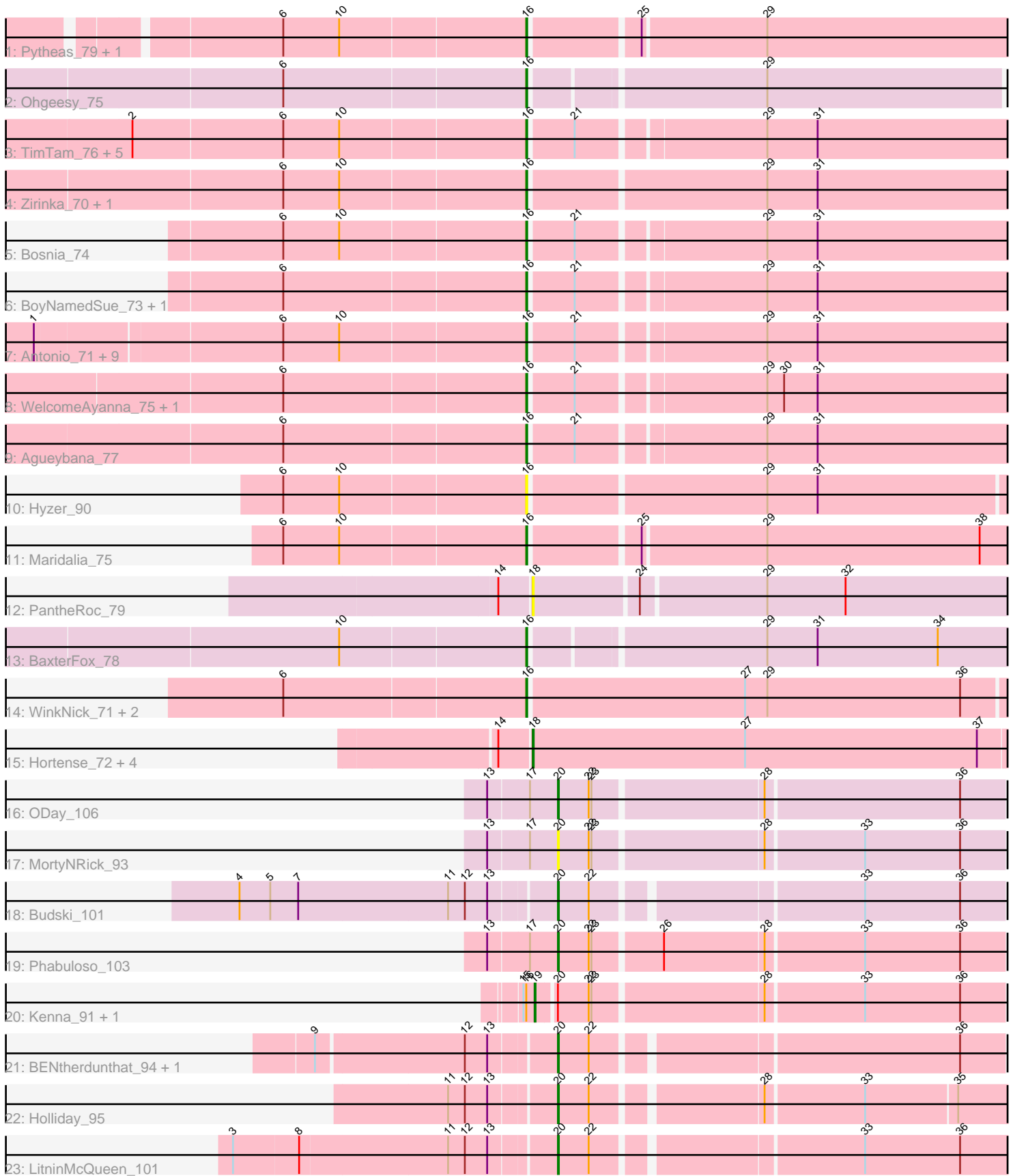


Pham 1957



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 1957 Report

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

Pham number 1957 has 49 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Pytheas_79, Jablanski_78
- Track 2 : Ohgeesy_75
- Track 3 : TimTam_76, Herod_76, Eviarto_76, BatStarr_75, Hugley_74, Nymphadora_76
- Track 4 : Zirinka_70, Bialota_70
- Track 5 : Bosnia_74
- Track 6 : BoyNamedSue_73, AlumE_73
- Track 7 : Antonio_71, Trumpet_72, Manasvini_74, Kita_73, Neobush_74, Suscepit_72, Eudoria_72, Polly_69, Zameen_72, Tayonia_72
- Track 8 : WelcomeAyanna_75, ThankyouJordi_75
- Track 9 : Agueybana_77
- Track 10 : Hyzer_90
- Track 11 : Maridalia_75
- Track 12 : PantheRoc_79
- Track 13 : BaxterFox_78
- Track 14 : WinkNick_71, Sekhmet_70, Dolores_71
- Track 15 : Hortense_72, Shlim410_70, Twinkle_71, Howe_72, Adora_69
- Track 16 : ODay_106
- Track 17 : MortyNRick_93
- Track 18 : Budski_101
- Track 19 : Phabuloso_103
- Track 20 : Kenna_91, Lutum_97
- Track 21 : BENtherdunthat_94, CheeseTouch_102
- Track 22 : Holliday_95
- Track 23 : LitninMcQueen_101

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 31 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana_77, AlumE_73, Antonio_71, BatStarr_75, BaxterFox_78, Bialota_70, Bosnia_74, BoyNamedSue_73, Dolores_71, Eudoria_72, Eviarto_76, Herod_76,

Hugley_74, Hyzer_90, Jablanski_78, Kita_73, Manasvini_74, Maridalia_75, Neobush_74, Nymphadora_76, Ohgeesy_75, Polly_69, Pytheas_79, Sekhmet_70, Suscepit_72, Tayonia_72, ThankyouJordi_75, TimTam_76, Trumpet_72, WelcomeAyanna_75, WinkNick_71, Zameen_72, Zirinka_70,

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

- Kenna_91, Lutum_97,

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

- Adora_69, BENtherdunthat_94, Budski_101, CheeseTouch_102, Holliday_95, Hortense_72, Howe_72, LitninMcQueen_101, MortyNRick_93, ODay_106, PantheRoc_79, Phabuloso_103, Shlim410_70, Twinkle_71,

Summary by start number:

Start 16:

- Found in 35 of 49 (71.4%) of genes in pham
- Manual Annotations of this start: 31 of 45
- Called 94.3% of time when present
- Phage (with cluster) where this start called: Agueybana_77 (CZ1), AlumE_73 (CZ1), Antonio_71 (CZ1), BatStarr_75 (CZ1), BaxterFox_78 (CZ3), Bialota_70 (CZ1), Bosnia_74 (CZ1), BoyNamedSue_73 (CZ1), Dolores_71 (CZ4), Eudoria_72 (CZ1), Eviarto_76 (CZ1), Herod_76 (CZ1), Hugley_74 (CZ1), Hyzer_90 (CZ1), Jablanski_78 (CY), Kita_73 (CZ1), Manasvini_74 (CZ1), Maridalia_75 (CZ1), Neobush_74 (CZ1), Nymphadora_76 (CZ1), Ohgeesy_75 (CZ), Polly_69 (CZ1), Pytheas_79 (CY), Sekhmet_70 (CZ4), Suscepit_72 (CZ1), Tayonia_72 (CZ1), ThankyouJordi_75 (CZ1), TimTam_76 (CZ1), Trumpet_72 (CZ1), WelcomeAyanna_75 (CZ1), WinkNick_71 (CZ4), Zameen_72 (CZ1), Zirinka_70 (CZ1),

Start 18:

- Found in 6 of 49 (12.2%) of genes in pham
- Manual Annotations of this start: 5 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adora_69 (CZ4), Hortense_72 (CZ4), Howe_72 (CZ4), PantheRoc_79 (CZ3), Shlim410_70 (CZ4), Twinkle_71 (CZ4),

Start 19:

- Found in 2 of 49 (4.1%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kenna_91 (DN1), Lutum_97 (DN1),

Start 20:

- Found in 10 of 49 (20.4%) of genes in pham
- Manual Annotations of this start: 7 of 45
- Called 80.0% of time when present
- Phage (with cluster) where this start called: BENtherdunthat_94 (DN1), Budski_101 (DN), CheeseTouch_102 (DN1), Holliday_95 (DN1), LitninMcQueen_101 (DN1), MortyNRick_93 (DN), ODay_106 (DN), Phabuloso_103 (DN1),

Summary by clusters:

There are 7 clusters represented in this pham: DN, CZ3, CZ1, CZ4, CZ, CY, DN1,

Info for manual annotations of cluster CY:

- Start number 16 was manually annotated 2 times for cluster CY.

Info for manual annotations of cluster CZ:

- Start number 16 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 16 was manually annotated 24 times for cluster CZ1.

Info for manual annotations of cluster CZ3:

- Start number 16 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 16 was manually annotated 3 times for cluster CZ4.
- Start number 18 was manually annotated 5 times for cluster CZ4.

Info for manual annotations of cluster DN:

- Start number 20 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 19 was manually annotated 2 times for cluster DN1.
- Start number 20 was manually annotated 5 times for cluster DN1.

Gene Information:

Gene: Adora_69 Start: 47805, Stop: 48323, Start Num: 18

Candidate Starts for Adora_69:

(14, 47772), (Start: 18 @47805 has 5 MA's), (27, 48033), (37, 48282),

Gene: Agueybana_77 Start: 49483, Stop: 49986, Start Num: 16

Candidate Starts for Agueybana_77:

(6, 49228), (Start: 16 @49483 has 31 MA's), (21, 49528), (29, 49717), (31, 49771),

Gene: AlumE_73 Start: 49157, Stop: 49660, Start Num: 16

Candidate Starts for AlumE_73:

(6, 48902), (Start: 16 @49157 has 31 MA's), (21, 49202), (29, 49391), (31, 49445),

Gene: Antonio_71 Start: 46919, Stop: 47422, Start Num: 16

Candidate Starts for Antonio_71:

(1, 46409), (6, 46664), (10, 46724), (Start: 16 @46919 has 31 MA's), (21, 46964), (29, 47153), (31, 47207),

Gene: BENtherdunthat_94 Start: 50856, Stop: 51305, Start Num: 20

Candidate Starts for BENtherdunthat_94:

(9, 50613), (12, 50766), (13, 50790), (Start: 20 @50856 has 7 MA's), (22, 50889), (36, 51258),

Gene: BatStarr_75 Start: 49887, Stop: 50390, Start Num: 16

Candidate Starts for BatStarr_75:

(2, 49473), (6, 49632), (10, 49692), (Start: 16 @49887 has 31 MA's), (21, 49932), (29, 50121), (31, 50175),

Gene: BaxterFox_78 Start: 50471, Stop: 50974, Start Num: 16

Candidate Starts for BaxterFox_78:

(10, 50276), (Start: 16 @50471 has 31 MA's), (29, 50705), (31, 50759), (34, 50888),

Gene: Bialota_70 Start: 48599, Stop: 49111, Start Num: 16

Candidate Starts for Bialota_70:

(6, 48344), (10, 48404), (Start: 16 @48599 has 31 MA's), (29, 48842), (31, 48896),

Gene: Bosnia_74 Start: 51001, Stop: 51504, Start Num: 16

Candidate Starts for Bosnia_74:

(6, 50746), (10, 50806), (Start: 16 @51001 has 31 MA's), (21, 51046), (29, 51235), (31, 51289),

Gene: BoyNamedSue_73 Start: 49157, Stop: 49660, Start Num: 16

Candidate Starts for BoyNamedSue_73:

(6, 48902), (Start: 16 @49157 has 31 MA's), (21, 49202), (29, 49391), (31, 49445),

Gene: Budski_101 Start: 53409, Stop: 53858, Start Num: 20

Candidate Starts for Budski_101:

(4, 53079), (5, 53112), (7, 53142), (11, 53301), (12, 53319), (13, 53343), (Start: 20 @53409 has 7 MA's), (22, 53442), (33, 53709), (36, 53811),

Gene: CheeseTouch_102 Start: 49969, Stop: 50418, Start Num: 20

Candidate Starts for CheeseTouch_102:

(9, 49726), (12, 49879), (13, 49903), (Start: 20 @49969 has 7 MA's), (22, 50002), (36, 50371),

Gene: Dolores_71 Start: 43881, Stop: 44396, Start Num: 16

Candidate Starts for Dolores_71:

(6, 43626), (Start: 16 @43881 has 31 MA's), (27, 44109), (29, 44133), (36, 44340),

Gene: Eudoria_72 Start: 46919, Stop: 47422, Start Num: 16

Candidate Starts for Eudoria_72:

(1, 46409), (6, 46664), (10, 46724), (Start: 16 @46919 has 31 MA's), (21, 46964), (29, 47153), (31, 47207),

Gene: Eviarto_76 Start: 49862, Stop: 50365, Start Num: 16

Candidate Starts for Eviarto_76:

(2, 49448), (6, 49607), (10, 49667), (Start: 16 @49862 has 31 MA's), (21, 49907), (29, 50096), (31, 50150),

Gene: Herod_76 Start: 50281, Stop: 50784, Start Num: 16

Candidate Starts for Herod_76:

(2, 49867), (6, 50026), (10, 50086), (Start: 16 @50281 has 31 MA's), (21, 50326), (29, 50515), (31, 50569),

Gene: Holliday_95 Start: 53920, Stop: 54375, Start Num: 20

Candidate Starts for Holliday_95:

(11, 53812), (12, 53830), (13, 53854), (Start: 20 @53920 has 7 MA's), (22, 53953), (28, 54118), (33, 54220), (35, 54316),

Gene: Hortense_72 Start: 49160, Stop: 49678, Start Num: 18

Candidate Starts for Hortense_72:

(14, 49127), (Start: 18 @49160 has 5 MA's), (27, 49388), (37, 49637),

Gene: Howe_72 Start: 49160, Stop: 49678, Start Num: 18

Candidate Starts for Howe_72:

(14, 49127), (Start: 18 @49160 has 5 MA's), (27, 49388), (37, 49637),

Gene: Hugley_74 Start: 50261, Stop: 50764, Start Num: 16

Candidate Starts for Hugley_74:

(2, 49847), (6, 50006), (10, 50066), (Start: 16 @50261 has 31 MA's), (21, 50306), (29, 50495), (31, 50549),

Gene: Hyzer_90 Start: 56729, Stop: 57235, Start Num: 16

Candidate Starts for Hyzer_90:

(6, 56474), (10, 56534), (Start: 16 @56729 has 31 MA's), (29, 56972), (31, 57026),

Gene: Jablanski_78 Start: 51376, Stop: 51882, Start Num: 16

Candidate Starts for Jablanski_78:

(6, 51121), (10, 51181), (Start: 16 @51376 has 31 MA's), (25, 51484), (29, 51613),

Gene: Kenna_91 Start: 50339, Stop: 50818, Start Num: 19

Candidate Starts for Kenna_91:

(15, 50327), (Start: 16 @50330 has 31 MA's), (Start: 19 @50339 has 2 MA's), (Start: 20 @50357 has 7 MA's), (22, 50390), (23, 50393), (28, 50567), (33, 50669), (36, 50771),

Gene: Kita_73 Start: 46928, Stop: 47431, Start Num: 16

Candidate Starts for Kita_73:

(1, 46418), (6, 46673), (10, 46733), (Start: 16 @46928 has 31 MA's), (21, 46973), (29, 47162), (31, 47216),

Gene: LitninMcQueen_101 Start: 53128, Stop: 53583, Start Num: 20

Candidate Starts for LitninMcQueen_101:

(3, 52795), (8, 52864), (11, 53020), (12, 53038), (13, 53062), (Start: 20 @53128 has 7 MA's), (22, 53161), (33, 53428), (36, 53530),

Gene: Lutum_97 Start: 51658, Stop: 52137, Start Num: 19

Candidate Starts for Lutum_97:

(15, 51646), (Start: 16 @51649 has 31 MA's), (Start: 19 @51658 has 2 MA's), (Start: 20 @51676 has 7 MA's), (22, 51709), (23, 51712), (28, 51886), (33, 51988), (36, 52090),

Gene: Manasvini_74 Start: 46943, Stop: 47446, Start Num: 16

Candidate Starts for Manasvini_74:

(1, 46433), (6, 46688), (10, 46748), (Start: 16 @46943 has 31 MA's), (21, 46988), (29, 47177), (31, 47231),

Gene: Maridalia_75 Start: 48164, Stop: 48670, Start Num: 16

Candidate Starts for Maridalia_75:

(6, 47909), (10, 47969), (Start: 16 @48164 has 31 MA's), (25, 48272), (29, 48401), (38, 48629),

Gene: MortyNRick_93 Start: 51544, Stop: 52005, Start Num: 20

Candidate Starts for MortyNRick_93:

(13, 51472), (17, 51514), (Start: 20 @51544 has 7 MA's), (22, 51577), (23, 51580), (28, 51754), (33, 51856), (36, 51958),

Gene: Neobush_74 Start: 47487, Stop: 47990, Start Num: 16

Candidate Starts for Neobush_74:

(1, 46977), (6, 47232), (10, 47292), (Start: 16 @47487 has 31 MA's), (21, 47532), (29, 47721), (31, 47775),

Gene: Nymphadora_76 Start: 49886, Stop: 50389, Start Num: 16

Candidate Starts for Nymphadora_76:

(2, 49472), (6, 49631), (10, 49691), (Start: 16 @49886 has 31 MA's), (21, 49931), (29, 50120), (31, 50174),

Gene: ODay_106 Start: 54579, Stop: 55040, Start Num: 20

Candidate Starts for ODay_106:

(13, 54507), (17, 54549), (Start: 20 @54579 has 7 MA's), (22, 54612), (23, 54615), (28, 54789), (36, 54993),

Gene: Ohgeesy_75 Start: 49366, Stop: 49860, Start Num: 16

Candidate Starts for Ohgeesy_75:

(6, 49111), (Start: 16 @49366 has 31 MA's), (29, 49600),

Gene: PantheRoc_79 Start: 49619, Stop: 50125, Start Num: 18

Candidate Starts for PantheRoc_79:

(14, 49586), (Start: 18 @49619 has 5 MA's), (24, 49727), (29, 49856), (32, 49940),

Gene: Phabuloso_103 Start: 52765, Stop: 53226, Start Num: 20

Candidate Starts for Phabuloso_103:

(13, 52693), (17, 52735), (Start: 20 @52765 has 7 MA's), (22, 52798), (23, 52801), (26, 52870), (28, 52975), (33, 53077), (36, 53179),

Gene: Polly_69 Start: 46362, Stop: 46865, Start Num: 16

Candidate Starts for Polly_69:

(1, 45852), (6, 46107), (10, 46167), (Start: 16 @46362 has 31 MA's), (21, 46407), (29, 46596), (31, 46650),

Gene: Pytheas_79 Start: 51375, Stop: 51881, Start Num: 16

Candidate Starts for Pytheas_79:

(6, 51120), (10, 51180), (Start: 16 @51375 has 31 MA's), (25, 51483), (29, 51612),

Gene: Sekhmet_70 Start: 44280, Stop: 44795, Start Num: 16

Candidate Starts for Sekhmet_70:

(6, 44025), (Start: 16 @44280 has 31 MA's), (27, 44508), (29, 44532), (36, 44739),

Gene: Shlim410_70 Start: 49160, Stop: 49678, Start Num: 18

Candidate Starts for Shlim410_70:

(14, 49127), (Start: 18 @49160 has 5 MA's), (27, 49388), (37, 49637),

Gene: Suscepit_72 Start: 46920, Stop: 47423, Start Num: 16

Candidate Starts for Suscepit_72:

(1, 46410), (6, 46665), (10, 46725), (Start: 16 @46920 has 31 MA's), (21, 46965), (29, 47154), (31, 47208),

Gene: Tayonia_72 Start: 46919, Stop: 47422, Start Num: 16

Candidate Starts for Tayonia_72:

(1, 46409), (6, 46664), (10, 46724), (Start: 16 @46919 has 31 MA's), (21, 46964), (29, 47153), (31, 47207),

Gene: ThankyouJordi_75 Start: 50292, Stop: 50792, Start Num: 16

Candidate Starts for ThankyouJordi_75:

(6, 50037), (Start: 16 @50292 has 31 MA's), (21, 50337), (29, 50526), (30, 50544), (31, 50580),

Gene: TimTam_76 Start: 49886, Stop: 50389, Start Num: 16

Candidate Starts for TimTam_76:

(2, 49472), (6, 49631), (10, 49691), (Start: 16 @49886 has 31 MA's), (21, 49931), (29, 50120), (31, 50174),

Gene: Trumpet_72 Start: 46920, Stop: 47423, Start Num: 16

Candidate Starts for Trumpet_72:

(1, 46410), (6, 46665), (10, 46725), (Start: 16 @46920 has 31 MA's), (21, 46965), (29, 47154), (31, 47208),

Gene: Twinkle_71 Start: 50219, Stop: 50737, Start Num: 18

Candidate Starts for Twinkle_71:

(14, 50186), (Start: 18 @50219 has 5 MA's), (27, 50447), (37, 50696),

Gene: WelcomeAyanna_75 Start: 50439, Stop: 50939, Start Num: 16

Candidate Starts for WelcomeAyanna_75:

(6, 50184), (Start: 16 @50439 has 31 MA's), (21, 50484), (29, 50673), (30, 50691), (31, 50727),

Gene: WinkNick_71 Start: 43804, Stop: 44319, Start Num: 16

Candidate Starts for WinkNick_71:

(6, 43549), (Start: 16 @43804 has 31 MA's), (27, 44032), (29, 44056), (36, 44263),

Gene: Zameen_72 Start: 46919, Stop: 47422, Start Num: 16

Candidate Starts for Zameen_72:

(1, 46409), (6, 46664), (10, 46724), (Start: 16 @46919 has 31 MA's), (21, 46964), (29, 47153), (31, 47207),

Gene: Zirinka_70 Start: 48587, Stop: 49099, Start Num: 16

Candidate Starts for Zirinka_70:

(6, 48332), (10, 48392), (Start: 16 @48587 has 31 MA's), (29, 48830), (31, 48884),