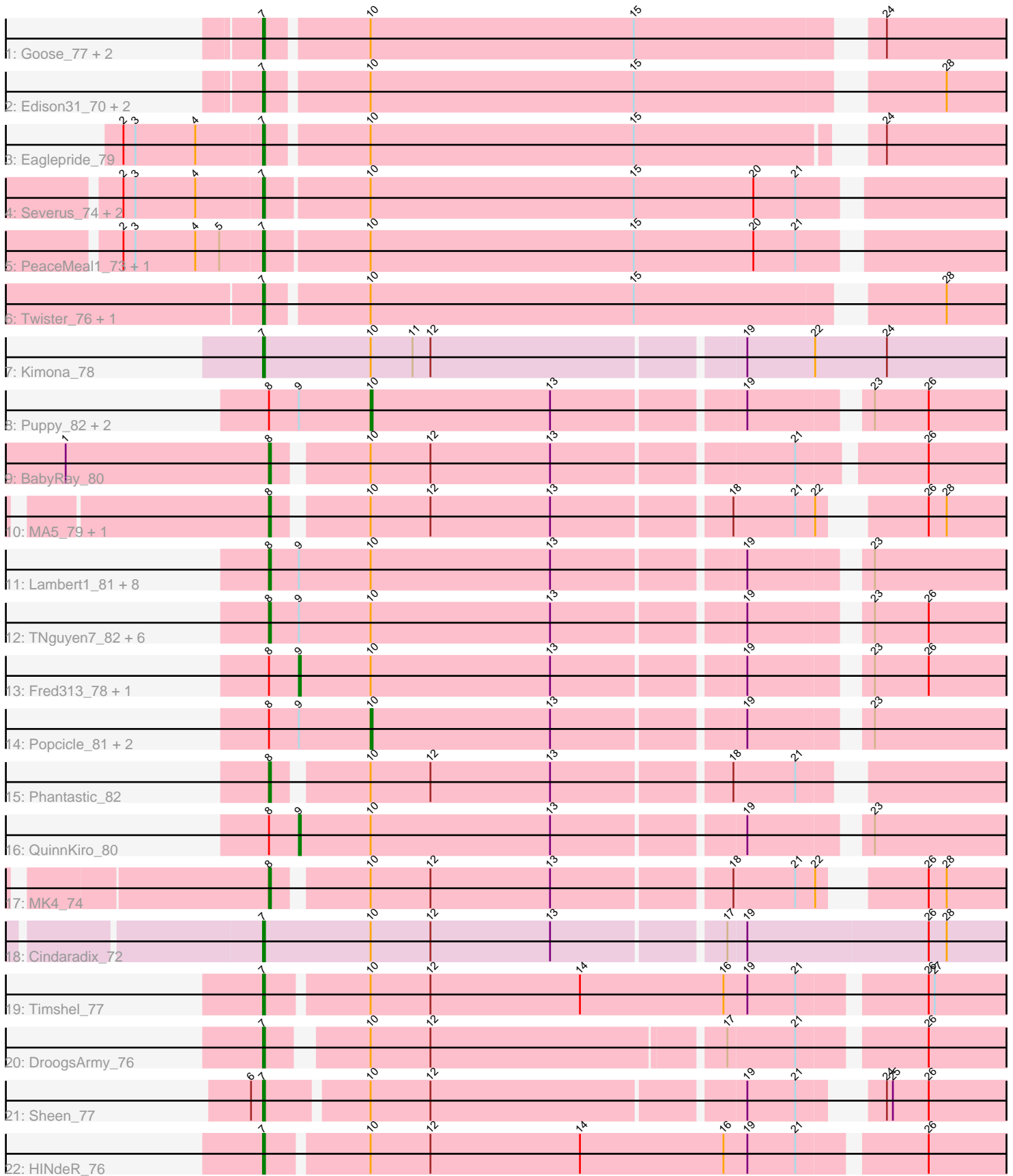


Pham 1909



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 1909 Report

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

Pham number 1909 has 50 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Goose_77, OKCentral2016_75, Chupacabra_73
- Track 2 : Edison31_70, Kristoff_74, Rebeuca_77
- Track 3 : Eaglepride_79
- Track 4 : Severus_74, Poompha_73, KittenMittens_72
- Track 5 : PeaceMeal1_73, Drake94_73
- Track 6 : Twister_76, WalterMcMickey_75
- Track 7 : Kimona_78
- Track 8 : Puppy_82, Pistachio_81, Idleandcovert_81
- Track 9 : BabyRay_80
- Track 10 : MA5_79, Isca_77
- Track 11 : Lambert1_81, Norbert_77, Panamaxus_78, Texage_79, Margo_81, Hookmount_81, Noella_82, Veracruz_78, Pocahontas_80
- Track 12 : TNguyen7_82, Heathen_80, Giroux_79, SaturnRing_81, BlueBird_83, Bugatti_81, Scout_80
- Track 13 : Fred313_78, HelDan_81
- Track 14 : Popcicle_81, ResDef_79, Todacoro_81
- Track 15 : Phantastic_82
- Track 16 : QuinnKiro_80
- Track 17 : MK4_74
- Track 18 : Cindaradix_72
- Track 19 : Timshel_77
- Track 20 : DroogsArmy_76
- Track 21 : Sheen_77
- Track 22 : HINdeR_76

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

The start number called the most often in the published annotations is 7, it was called in 19 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chupacabra_73, Cindaradix_72, Drake94_73, DroogsArmy_76, Eaglepride_79, Edison31_70, Goose_77, HINdeR_76, Kimona_78, KittenMittens_72, Kristoff_74, OKCentral2016_75, PeaceMeal1_73, Poompha_73, Rebeuca_77, Severus_74,

Sheen_77, Timshel_77, Twister_76, WalterMcMickey_75,

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

-

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

- BabyRay_80, BlueBird_83, Bugatti_81, Fred313_78, Giroux_79, Heathen_80, HelDan_81, Hookmount_81, Idleandcovert_81, Isca_77, Lambert1_81, MA5_79, MK4_74, Margo_81, Noella_82, Norbert_77, Panamaxus_78, Phantastic_82, Pistachio_81, Pocahontas_80, Popcicle_81, Puppy_82, QuinnKiro_80, ResDef_79, SaturnRing_81, Scout_80, TNguyen7_82, Texage_79, Todacoro_81, Veracruz_78,

Summary by start number:

Start 7:

- Found in 20 of 50 (40.0%) of genes in pham
- Manual Annotations of this start: 19 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chupacabra_73 (A10), Cindaradix_72 (A4), Drake94_73 (A10), DroogsArmy_76 (A7), Eaglepride_79 (A10), Edison31_70 (A10), Goose_77 (A10), HINdeR_76 (A7), Kimona_78 (A19), KittenMittens_72 (A10), Kristoff_74 (A10), OKCentral2016_75 (A10), PeaceMeal1_73 (A10), Poompha_73 (A10), Rebeuca_77 (A10), Severus_74 (A10), Sheen_77 (A7), Timshel_77 (A7), Twister_76 (A10), WalterMcMickey_75 (A10),

Start 8:

- Found in 30 of 50 (60.0%) of genes in pham
- Manual Annotations of this start: 18 of 45
- Called 70.0% of time when present
- Phage (with cluster) where this start called: BabyRay_80 (A3), BlueBird_83 (A3), Bugatti_81 (A3), Giroux_79 (A3), Heathen_80 (A3), Hookmount_81 (A3), Isca_77 (A3), Lambert1_81 (A3), MA5_79 (A3), MK4_74 (A3), Margo_81 (A3), Noella_82 (A3), Norbert_77 (A3), Panamaxus_78 (A3), Phantastic_82 (A3), Pocahontas_80 (A3), SaturnRing_81 (A3), Scout_80 (A3), TNguyen7_82 (A3), Texage_79 (A3), Veracruz_78 (A3),

Start 9:

- Found in 25 of 50 (50.0%) of genes in pham
- Manual Annotations of this start: 3 of 45
- Called 12.0% of time when present
- Phage (with cluster) where this start called: Fred313_78 (A3), HelDan_81 (A3), QuinnKiro_80 (A3),

Start 10:

- Found in 50 of 50 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 45
- Called 12.0% of time when present
- Phage (with cluster) where this start called: Idleandcovert_81 (A3), Pistachio_81 (A3), Popcicle_81 (A3), Puppy_82 (A3), ResDef_79 (A3), Todacoro_81 (A3),

Summary by clusters:

There are 5 clusters represented in this pham: A3, A19, A10, A7, A4,

Info for manual annotations of cluster A10:

- Start number 7 was manually annotated 13 times for cluster A10.

Info for manual annotations of cluster A19:

- Start number 7 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A3:

- Start number 8 was manually annotated 18 times for cluster A3.
- Start number 9 was manually annotated 3 times for cluster A3.
- Start number 10 was manually annotated 5 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 7 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A7:

- Start number 7 was manually annotated 4 times for cluster A7.

Gene Information:

Gene: BabyRay_80 Start: 46137, Stop: 45772, Start Num: 8

Candidate Starts for BabyRay_80:

(1, 46239), (Start: 8 @46137 has 18 MA's), (Start: 10 @46095 has 5 MA's), (12, 46065), (13, 46005), (21, 45891), (26, 45834),

Gene: BlueBird_83 Start: 46572, Stop: 46201, Start Num: 8

Candidate Starts for BlueBird_83:

(Start: 8 @46572 has 18 MA's), (Start: 9 @46557 has 3 MA's), (Start: 10 @46521 has 5 MA's), (13, 46431), (19, 46341), (23, 46290), (26, 46263),

Gene: Bugatti_81 Start: 46572, Stop: 46201, Start Num: 8

Candidate Starts for Bugatti_81:

(Start: 8 @46572 has 18 MA's), (Start: 9 @46557 has 3 MA's), (Start: 10 @46521 has 5 MA's), (13, 46431), (19, 46341), (23, 46290), (26, 46263),

Gene: Chupacabra_73 Start: 45579, Stop: 45208, Start Num: 7

Candidate Starts for Chupacabra_73:

(Start: 7 @45579 has 19 MA's), (Start: 10 @45531 has 5 MA's), (15, 45399), (24, 45291),

Gene: Cindaradix_72 Start: 46088, Stop: 45702, Start Num: 7

Candidate Starts for Cindaradix_72:

(Start: 7 @46088 has 19 MA's), (Start: 10 @46034 has 5 MA's), (12, 46004), (13, 45944), (17, 45863), (19, 45854), (26, 45764), (28, 45755),

Gene: Drake94_73 Start: 44739, Stop: 44359, Start Num: 7

Candidate Starts for Drake94_73:

(2, 44808), (3, 44802), (4, 44772), (5, 44760), (Start: 7 @44739 has 19 MA's), (Start: 10 @44688 has 5 MA's), (15, 44556), (20, 44496), (21, 44475),

Gene: DroogsArmy_76 Start: 49249, Stop: 48884, Start Num: 7

Candidate Starts for DroogsArmy_76:

(Start: 7 @49249 has 19 MA's), (Start: 10 @49207 has 5 MA's), (12, 49177), (17, 49036), (21, 49003), (26, 48946),

Gene: Eaglepride_79 Start: 45668, Stop: 45300, Start Num: 7

Candidate Starts for Eaglepride_79:

(2, 45737), (3, 45731), (4, 45701), (Start: 7 @45668 has 19 MA's), (Start: 10 @45620 has 5 MA's), (15, 45488), (24, 45383),

Gene: Edison31_70 Start: 45446, Stop: 45075, Start Num: 7

Candidate Starts for Edison31_70:

(Start: 7 @45446 has 19 MA's), (Start: 10 @45398 has 5 MA's), (15, 45266), (28, 45128),

Gene: Fred313_78 Start: 46187, Stop: 45831, Start Num: 9

Candidate Starts for Fred313_78:

(Start: 8 @46202 has 18 MA's), (Start: 9 @46187 has 3 MA's), (Start: 10 @46151 has 5 MA's), (13, 46061), (19, 45971), (23, 45920), (26, 45893),

Gene: Giroux_79 Start: 46571, Stop: 46200, Start Num: 8

Candidate Starts for Giroux_79:

(Start: 8 @46571 has 18 MA's), (Start: 9 @46556 has 3 MA's), (Start: 10 @46520 has 5 MA's), (13, 46430), (19, 46340), (23, 46289), (26, 46262),

Gene: Goose_77 Start: 45390, Stop: 45019, Start Num: 7

Candidate Starts for Goose_77:

(Start: 7 @45390 has 19 MA's), (Start: 10 @45342 has 5 MA's), (15, 45210), (24, 45102),

Gene: HINdeR_76 Start: 48648, Stop: 48268, Start Num: 7

Candidate Starts for HINdeR_76:

(Start: 7 @48648 has 19 MA's), (Start: 10 @48600 has 5 MA's), (12, 48570), (14, 48495), (16, 48423), (19, 48411), (21, 48387), (26, 48330),

Gene: Heathen_80 Start: 46290, Stop: 45919, Start Num: 8

Candidate Starts for Heathen_80:

(Start: 8 @46290 has 18 MA's), (Start: 9 @46275 has 3 MA's), (Start: 10 @46239 has 5 MA's), (13, 46149), (19, 46059), (23, 46008), (26, 45981),

Gene: HelDan_81 Start: 46498, Stop: 46142, Start Num: 9

Candidate Starts for HelDan_81:

(Start: 8 @46513 has 18 MA's), (Start: 9 @46498 has 3 MA's), (Start: 10 @46462 has 5 MA's), (13, 46372), (19, 46282), (23, 46231), (26, 46204),

Gene: Hookmount_81 Start: 46525, Stop: 46154, Start Num: 8

Candidate Starts for Hookmount_81:

(Start: 8 @46525 has 18 MA's), (Start: 9 @46510 has 3 MA's), (Start: 10 @46474 has 5 MA's), (13, 46384), (19, 46294), (23, 46243),

Gene: Idleandcovert_81 Start: 46521, Stop: 46201, Start Num: 10

Candidate Starts for Idleandcovert_81:

(Start: 8 @46572 has 18 MA's), (Start: 9 @46557 has 3 MA's), (Start: 10 @46521 has 5 MA's), (13, 46431), (19, 46341), (23, 46290), (26, 46263),

Gene: Isca_77 Start: 45658, Stop: 45305, Start Num: 8

Candidate Starts for Isca_77:

(Start: 8 @45658 has 18 MA's), (Start: 10 @45616 has 5 MA's), (12, 45586), (13, 45526), (18, 45442), (21, 45412), (22, 45403), (26, 45367), (28, 45358),

Gene: Kimona_78 Start: 45316, Stop: 44930, Start Num: 7

Candidate Starts for Kimona_78:

(Start: 7 @45316 has 19 MA's), (Start: 10 @45262 has 5 MA's), (11, 45241), (12, 45232), (19, 45082), (22, 45049), (24, 45013),

Gene: KittenMittens_72 Start: 44749, Stop: 44369, Start Num: 7

Candidate Starts for KittenMittens_72:

(2, 44818), (3, 44812), (4, 44782), (Start: 7 @44749 has 19 MA's), (Start: 10 @44698 has 5 MA's), (15, 44566), (20, 44506), (21, 44485),

Gene: Kristoff_74 Start: 46024, Stop: 45653, Start Num: 7

Candidate Starts for Kristoff_74:

(Start: 7 @46024 has 19 MA's), (Start: 10 @45976 has 5 MA's), (15, 45844), (28, 45706),

Gene: Lambert1_81 Start: 46526, Stop: 46155, Start Num: 8

Candidate Starts for Lambert1_81:

(Start: 8 @46526 has 18 MA's), (Start: 9 @46511 has 3 MA's), (Start: 10 @46475 has 5 MA's), (13, 46385), (19, 46295), (23, 46244),

Gene: MA5_79 Start: 45572, Stop: 45219, Start Num: 8

Candidate Starts for MA5_79:

(Start: 8 @45572 has 18 MA's), (Start: 10 @45530 has 5 MA's), (12, 45500), (13, 45440), (18, 45356), (21, 45326), (22, 45317), (26, 45281), (28, 45272),

Gene: MK4_74 Start: 44081, Stop: 43728, Start Num: 8

Candidate Starts for MK4_74:

(Start: 8 @44081 has 18 MA's), (Start: 10 @44039 has 5 MA's), (12, 44009), (13, 43949), (18, 43865), (21, 43835), (22, 43826), (26, 43790), (28, 43781),

Gene: Margo_81 Start: 46551, Stop: 46180, Start Num: 8

Candidate Starts for Margo_81:

(Start: 8 @46551 has 18 MA's), (Start: 9 @46536 has 3 MA's), (Start: 10 @46500 has 5 MA's), (13, 46410), (19, 46320), (23, 46269),

Gene: Noella_82 Start: 46527, Stop: 46156, Start Num: 8

Candidate Starts for Noella_82:

(Start: 8 @46527 has 18 MA's), (Start: 9 @46512 has 3 MA's), (Start: 10 @46476 has 5 MA's), (13, 46386), (19, 46296), (23, 46245),

Gene: Norbert_77 Start: 46524, Stop: 46153, Start Num: 8

Candidate Starts for Norbert_77:

(Start: 8 @46524 has 18 MA's), (Start: 9 @46509 has 3 MA's), (Start: 10 @46473 has 5 MA's), (13, 46383), (19, 46293), (23, 46242),

Gene: OKCentral2016_75 Start: 44817, Stop: 44446, Start Num: 7

Candidate Starts for OKCentral2016_75:

(Start: 7 @44817 has 19 MA's), (Start: 10 @44769 has 5 MA's), (15, 44637), (24, 44529),

Gene: Panamaxus_78 Start: 46526, Stop: 46155, Start Num: 8

Candidate Starts for Panamaxus_78:

(Start: 8 @46526 has 18 MA's), (Start: 9 @46511 has 3 MA's), (Start: 10 @46475 has 5 MA's), (13, 46385), (19, 46295), (23, 46244),

Gene: PeaceMeal1_73 Start: 44750, Stop: 44370, Start Num: 7

Candidate Starts for PeaceMeal1_73:

(2, 44819), (3, 44813), (4, 44783), (5, 44771), (Start: 7 @44750 has 19 MA's), (Start: 10 @44699 has 5 MA's), (15, 44567), (20, 44507), (21, 44486),

Gene: Phantastic_82 Start: 45986, Stop: 45630, Start Num: 8

Candidate Starts for Phantastic_82:

(Start: 8 @45986 has 18 MA's), (Start: 10 @45944 has 5 MA's), (12, 45914), (13, 45854), (18, 45770), (21, 45740),

Gene: Pistachio_81 Start: 46068, Stop: 45748, Start Num: 10

Candidate Starts for Pistachio_81:

(Start: 8 @46119 has 18 MA's), (Start: 9 @46104 has 3 MA's), (Start: 10 @46068 has 5 MA's), (13, 45978), (19, 45888), (23, 45837), (26, 45810),

Gene: Pocahontas_80 Start: 46522, Stop: 46151, Start Num: 8

Candidate Starts for Pocahontas_80:

(Start: 8 @46522 has 18 MA's), (Start: 9 @46507 has 3 MA's), (Start: 10 @46471 has 5 MA's), (13, 46381), (19, 46291), (23, 46240),

Gene: Poompha_73 Start: 44748, Stop: 44368, Start Num: 7

Candidate Starts for Poompha_73:

(2, 44817), (3, 44811), (4, 44781), (Start: 7 @44748 has 19 MA's), (Start: 10 @44697 has 5 MA's), (15, 44565), (20, 44505), (21, 44484),

Gene: Popcicle_81 Start: 46471, Stop: 46151, Start Num: 10

Candidate Starts for Popcicle_81:

(Start: 8 @46522 has 18 MA's), (Start: 9 @46507 has 3 MA's), (Start: 10 @46471 has 5 MA's), (13, 46381), (19, 46291), (23, 46240),

Gene: Puppy_82 Start: 46138, Stop: 45818, Start Num: 10

Candidate Starts for Puppy_82:

(Start: 8 @46189 has 18 MA's), (Start: 9 @46174 has 3 MA's), (Start: 10 @46138 has 5 MA's), (13, 46048), (19, 45958), (23, 45907), (26, 45880),

Gene: QuinnKiro_80 Start: 46510, Stop: 46154, Start Num: 9

Candidate Starts for QuinnKiro_80:

(Start: 8 @46525 has 18 MA's), (Start: 9 @46510 has 3 MA's), (Start: 10 @46474 has 5 MA's), (13, 46384), (19, 46294), (23, 46243),

Gene: Rebeuca_77 Start: 46025, Stop: 45654, Start Num: 7

Candidate Starts for Rebeuca_77:

(Start: 7 @46025 has 19 MA's), (Start: 10 @45977 has 5 MA's), (15, 45845), (28, 45707),

Gene: ResDef_79 Start: 46477, Stop: 46157, Start Num: 10

Candidate Starts for ResDef_79:

(Start: 8 @46528 has 18 MA's), (Start: 9 @46513 has 3 MA's), (Start: 10 @46477 has 5 MA's), (13, 46387), (19, 46297), (23, 46246),

Gene: SaturnRing_81 Start: 46572, Stop: 46201, Start Num: 8

Candidate Starts for SaturnRing_81:

(Start: 8 @46572 has 18 MA's), (Start: 9 @46557 has 3 MA's), (Start: 10 @46521 has 5 MA's), (13, 46431), (19, 46341), (23, 46290), (26, 46263),

Gene: Scout_80 Start: 45753, Stop: 45382, Start Num: 8

Candidate Starts for Scout_80:

(Start: 8 @45753 has 18 MA's), (Start: 9 @45738 has 3 MA's), (Start: 10 @45702 has 5 MA's), (13, 45612), (19, 45522), (23, 45471), (26, 45444),

Gene: Severus_74 Start: 44748, Stop: 44368, Start Num: 7

Candidate Starts for Severus_74:

(2, 44817), (3, 44811), (4, 44781), (Start: 7 @44748 has 19 MA's), (Start: 10 @44697 has 5 MA's), (15, 44565), (20, 44505), (21, 44484),

Gene: Sheen_77 Start: 49112, Stop: 48753, Start Num: 7

Candidate Starts for Sheen_77:

(6, 49118), (Start: 7 @49112 has 19 MA's), (Start: 10 @49064 has 5 MA's), (12, 49034), (19, 48884), (21, 48860), (24, 48836), (25, 48833), (26, 48815),

Gene: TNguyen7_82 Start: 46530, Stop: 46159, Start Num: 8

Candidate Starts for TNguyen7_82:

(Start: 8 @46530 has 18 MA's), (Start: 9 @46515 has 3 MA's), (Start: 10 @46479 has 5 MA's), (13, 46389), (19, 46299), (23, 46248), (26, 46221),

Gene: Texage_79 Start: 46526, Stop: 46155, Start Num: 8

Candidate Starts for Texage_79:

(Start: 8 @46526 has 18 MA's), (Start: 9 @46511 has 3 MA's), (Start: 10 @46475 has 5 MA's), (13, 46385), (19, 46295), (23, 46244),

Gene: Timshel_77 Start: 49081, Stop: 48701, Start Num: 7

Candidate Starts for Timshel_77:

(Start: 7 @49081 has 19 MA's), (Start: 10 @49033 has 5 MA's), (12, 49003), (14, 48928), (16, 48856), (19, 48844), (21, 48820), (26, 48763), (27, 48760),

Gene: Todacoro_81 Start: 46474, Stop: 46154, Start Num: 10

Candidate Starts for Todacoro_81:

(Start: 8 @46525 has 18 MA's), (Start: 9 @46510 has 3 MA's), (Start: 10 @46474 has 5 MA's), (13, 46384), (19, 46294), (23, 46243),

Gene: Twister_76 Start: 45574, Stop: 45203, Start Num: 7

Candidate Starts for Twister_76:

(Start: 7 @45574 has 19 MA's), (Start: 10 @45526 has 5 MA's), (15, 45394), (28, 45256),

Gene: Veracruz_78 Start: 46526, Stop: 46155, Start Num: 8

Candidate Starts for Veracruz_78:

(Start: 8 @46526 has 18 MA's), (Start: 9 @46511 has 3 MA's), (Start: 10 @46475 has 5 MA's), (13, 46385), (19, 46295), (23, 46244),

Gene: WalterMcMickey_75 Start: 45574, Stop: 45203, Start Num: 7

Candidate Starts for WalterMcMickey_75:

(Start: 7 @45574 has 19 MA's), (Start: 10 @45526 has 5 MA's), (15, 45394), (28, 45256),