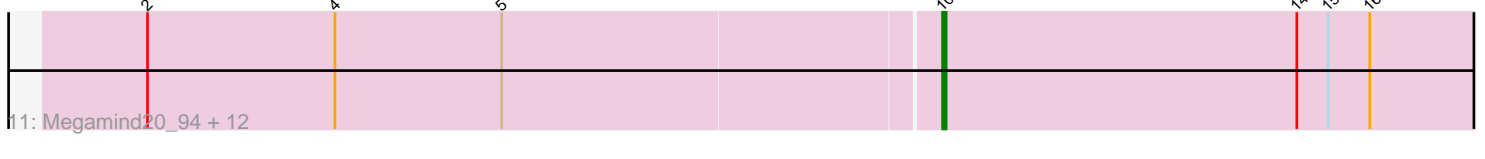
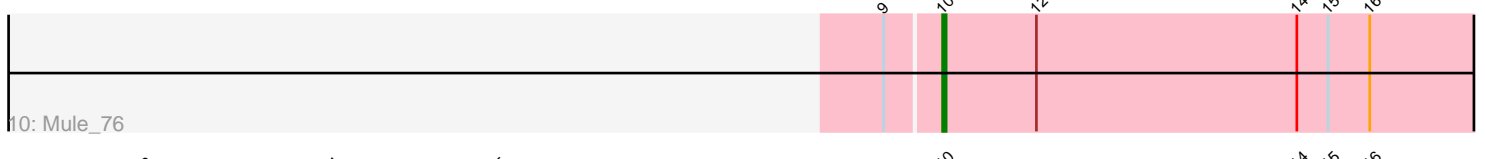
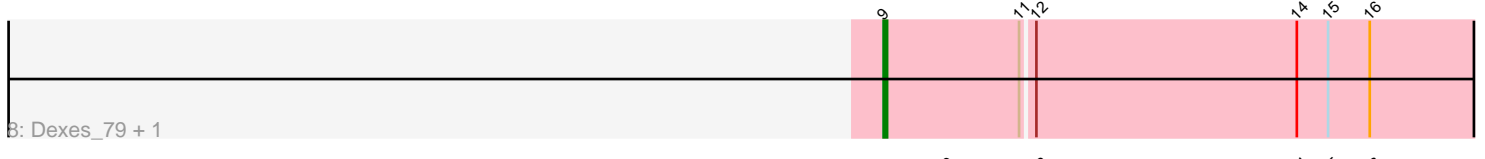
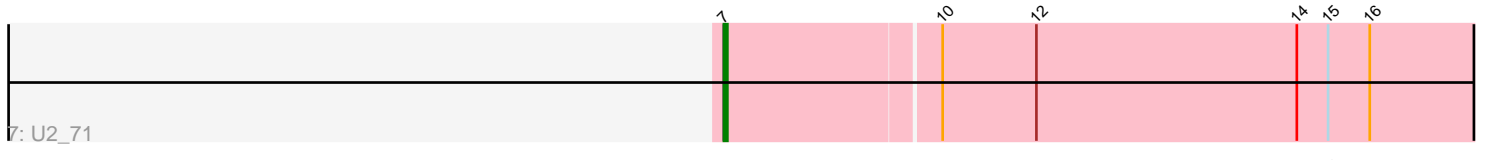
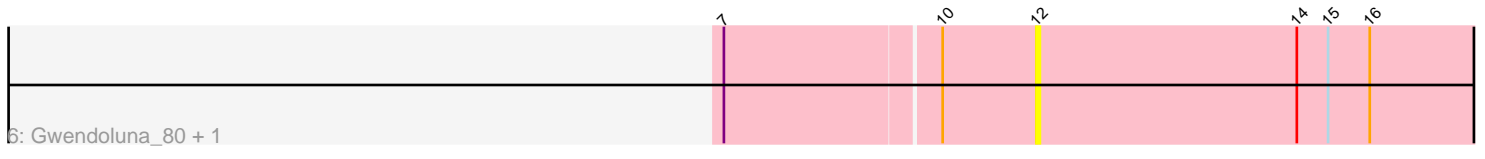
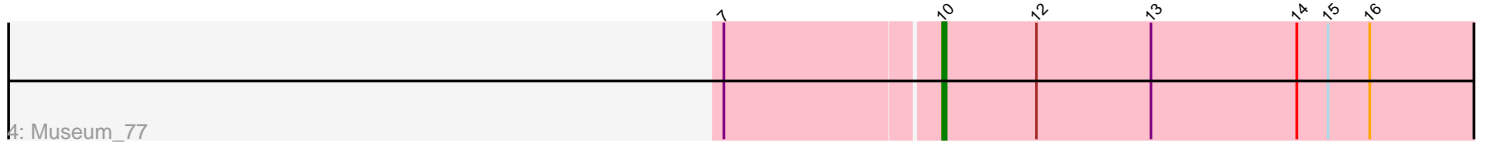
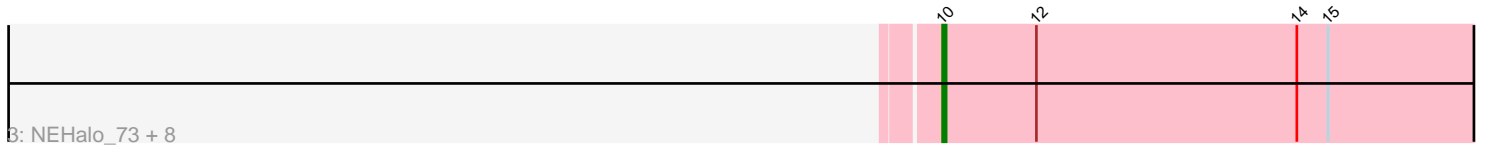
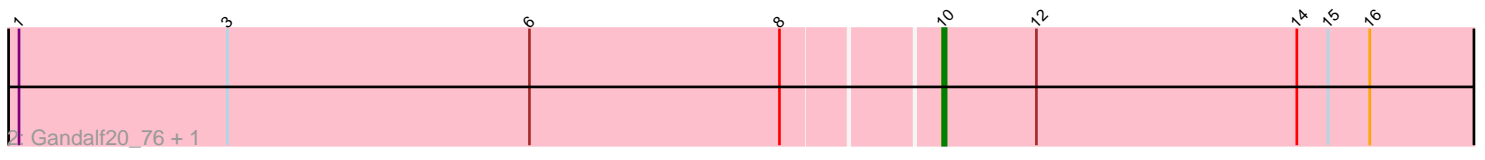
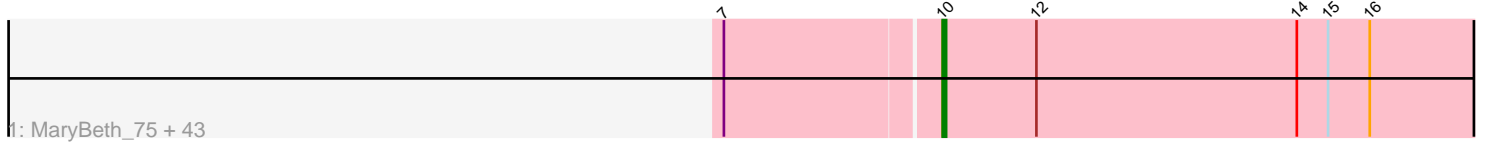


Pham 165007



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 165007 Report

This analysis was run 07/09/24 on database version 566.

Pham number 165007 has 80 members, 12 are drafts.

Phages represented in each track:

- Track 1 : MaryBeth_75, PSullivan_75, Zeeculate_73, Lopton_76, Euphoria_78, PattyP_77, PascalRango_75, BluSpix_74, Manatee_75, Corvo_79, Sorpresa_74, Makemake_80, Bethlehem_80, Pita2_78, JuliaChild_78, SwissCheese_81, Dulcie_78, HarryOW_78, Sandaddy_75, IgnatiusPatJac_77, Tote_73, Licorice_79, Forsytheast_79, Pari_82, Swole_75, AFIS_74, SpikeBT_74, BaconJack_79, Parliament_78, Aeneas_82, Altman_81, ConceptII_83, Tasp14_76, Kanely_80, MPlant7149_77, Sibs6_77, GrecoEtereo_81, Perseus_77, KBG_75, Moose_79, Burton_78, MetalQZJ_74, BPBiebs31_82, Watermelon_80
- Track 2 : Gandalf20_76, Espresso_71
- Track 3 : NEHalo_73, Lesedi_74, Mryolo_72, Molly_77, KyMonks1A_83, Niza_77, Eyeball_76, STLscum_83, Ohno789_80
- Track 4 : Museum_77
- Track 5 : Arlo_77, Abbyshoes_77, Kenmech_79, Dussy_76
- Track 6 : Gwendoluna_80, StewieG_73
- Track 7 : U2_71
- Track 8 : Dexes_79, Paphu_72
- Track 9 : Smairt_81
- Track 10 : Mule_76
- Track 11 : Megamind20_94, Selr12_96, Mcshane_94, Slatt_94, Andre_95, Orwigg_94, Charles1_95, Pacifista_95, Olak_94, Scrick_93, DirtJuice_93, Burr_94, True_93

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

The start number called the most often in the published annotations is 10, it was called in 65 of the 68 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AFIS_74, Abbyshoes_77, Aeneas_82, Altman_81, Andre_95, Arlo_77, BPBiebs31_82, BaconJack_79, Bethlehem_80, BluSpix_74, Burr_94, Burton_78, Charles1_95, ConceptII_83, Corvo_79, DirtJuice_93, Dulcie_78, Dussy_76, Espresso_71, Euphoria_78, Eyeball_76, Forsytheast_79, Gandalf20_76, GrecoEtereo_81, HarryOW_78, IgnatiusPatJac_77, JuliaChild_78, KBG_75, Kanely_80, Kenmech_79, KyMonks1A_83, Lesedi_74, Licorice_79, Lopton_76,

MPlant7149_77, Makemake_80, Manatee_75, MaryBeth_75, Mcshane_94, Megamind20_94, MetalQZJ_74, Molly_77, Moose_79, Mryolo_72, Mule_76, Museum_77, NEHalo_73, Niza_77, Ohno789_80, Olak_94, Orwigg_94, PSullivan_75, Pacifista_95, Pari_82, Parliament_78, PascalRango_75, PattyP_77, Perseus_77, Pita2_78, STLscum_83, Sandaddy_75, Scrick_93, Selr12_96, Sibs6_77, Slatt_94, Smairt_81, Sorpresa_74, SpikeBT_74, SwissCheese_81, Swole_75, Tasp14_76, Tote_73, True_93, Watermelon_80, Zeeculate_73,

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

- Gwendoluna_80, StewieG_73, U2_71,

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

- Dexes_79, Paphu_72,

Summary by start number:

Start 7:

- Found in 52 of 80 (65.0%) of genes in pham
- Manual Annotations of this start: 1 of 68
- Called 1.9% of time when present
- Phage (with cluster) where this start called: U2_71 (A1),

Start 9:

- Found in 4 of 80 (5.0%) of genes in pham
- Manual Annotations of this start: 2 of 68
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Dexes_79 (A1), Paphu_72 (A1),

Start 10:

- Found in 78 of 80 (97.5%) of genes in pham
- Manual Annotations of this start: 65 of 68
- Called 96.2% of time when present
- Phage (with cluster) where this start called: AFIS_74 (A1), Abbyshoes_77 (A1), Aeneas_82 (A1), Altman_81 (A1), Andre_95 (B1), Arlo_77 (A1), BPBiabs31_82 (A1), BaconJack_79 (A1), Bethlehem_80 (A1), BluSpix_74 (A1), Burr_94 (B1), Burton_78 (A1), Charles1_95 (B1), ConceptII_83 (A1), Corvo_79 (A1), DirtJuice_93 (B1), Dulcie_78 (A1), Dussy_76 (A1), Espresso_71 (A1), Euphoria_78 (A1), Eyeball_76 (A1), Forsytheast_79 (A1), Gandalf20_76 (A1), GrecoEtereo_81 (A1), HarryOW_78 (A1), IgnatiusPatJac_77 (A1), JuliaChild_78 (A1), KBG_75 (A1), Kanely_80 (A1), Kenmech_79 (A1), KyMonks1A_83 (A1), Lesedi_74 (A1), Licorice_79 (A1), Lopton_76 (A1), MPlant7149_77 (A1), Makemake_80 (A1), Manatee_75 (A1), MaryBeth_75 (A1), Mcshane_94 (B1), Megamind20_94 (B1), MetalQZJ_74 (A1), Molly_77 (A1), Moose_79 (A1), Mryolo_72 (A1), Mule_76 (A1), Museum_77 (A1), NEHalo_73 (A1), Niza_77 (A1), Ohno789_80 (A1), Olak_94 (B1), Orwigg_94 (B1), PSullivan_75 (A1), Pacifista_95 (B1), Pari_82 (A1), Parliament_78 (A1), PascalRango_75 (A1), PattyP_77 (A1), Perseus_77 (A1), Pita2_78 (A1), STLscum_83 (A1), Sandaddy_75 (A1), Scrick_93 (B1), Selr12_96 (B1), Sibs6_77 (A1), Slatt_94 (B1), Smairt_81 (A1), Sorpresa_74 (A1), SpikeBT_74 (A1), SwissCheese_81 (A1), Swole_75 (A1), Tasp14_76 (A1), Tote_73 (A1), True_93 (B1), Watermelon_80 (A1), Zeeculate_73 (A1),

Start 12:

- Found in 67 of 80 (83.8%) of genes in pham

- No Manual Annotations of this start.
- Called 3.0% of time when present
- Phage (with cluster) where this start called: Gwendoluna_80 (A1), StewieG_73 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, B1,

Info for manual annotations of cluster A1:

- Start number 7 was manually annotated 1 time for cluster A1.
- Start number 9 was manually annotated 2 times for cluster A1.
- Start number 10 was manually annotated 58 times for cluster A1.

Info for manual annotations of cluster B1:

- Start number 10 was manually annotated 7 times for cluster B1.

Gene Information:

Gene: AFIS_74 Start: 47687, Stop: 47508, Start Num: 10

Candidate Starts for AFIS_74:

(Start: 7 @47747 has 1 MA's), (Start: 10 @47687 has 65 MA's), (12, 47660), (14, 47585), (15, 47576), (16, 47564),

Gene: Abbyshoes_77 Start: 46940, Stop: 46761, Start Num: 10

Candidate Starts for Abbyshoes_77:

(Start: 7 @47000 has 1 MA's), (Start: 10 @46940 has 65 MA's), (12, 46913), (14, 46838), (15, 46829),

Gene: Aeneas_82 Start: 49299, Stop: 49120, Start Num: 10

Candidate Starts for Aeneas_82:

(Start: 7 @49359 has 1 MA's), (Start: 10 @49299 has 65 MA's), (12, 49272), (14, 49197), (15, 49188), (16, 49176),

Gene: Altman_81 Start: 48326, Stop: 48147, Start Num: 10

Candidate Starts for Altman_81:

(Start: 7 @48386 has 1 MA's), (Start: 10 @48326 has 65 MA's), (12, 48299), (14, 48224), (15, 48215), (16, 48203),

Gene: Andre_95 Start: 65480, Stop: 65301, Start Num: 10

Candidate Starts for Andre_95:

(2, 65705), (4, 65651), (5, 65603), (Start: 10 @65480 has 65 MA's), (14, 65378), (15, 65369), (16, 65357),

Gene: Arlo_77 Start: 47734, Stop: 47555, Start Num: 10

Candidate Starts for Arlo_77:

(Start: 7 @47794 has 1 MA's), (Start: 10 @47734 has 65 MA's), (12, 47707), (14, 47632), (15, 47623),

Gene: BPBiabs31_82 Start: 48846, Stop: 48667, Start Num: 10

Candidate Starts for BPBiabs31_82:

(Start: 7 @48906 has 1 MA's), (Start: 10 @48846 has 65 MA's), (12, 48819), (14, 48744), (15, 48735), (16, 48723),

Gene: BaconJack_79 Start: 49001, Stop: 48822, Start Num: 10
Candidate Starts for BaconJack_79:
(Start: 7 @49061 has 1 MA's), (Start: 10 @49001 has 65 MA's), (12, 48974), (14, 48899), (15, 48890),
(16, 48878),

Gene: Bethlehem_80 Start: 49886, Stop: 49707, Start Num: 10
Candidate Starts for Bethlehem_80:
(Start: 7 @49946 has 1 MA's), (Start: 10 @49886 has 65 MA's), (12, 49859), (14, 49784), (15, 49775),
(16, 49763),

Gene: BluSpix_74 Start: 42535, Stop: 42356, Start Num: 10
Candidate Starts for BluSpix_74:
(Start: 7 @42595 has 1 MA's), (Start: 10 @42535 has 65 MA's), (12, 42508), (14, 42433), (15, 42424),
(16, 42412),

Gene: Burr_94 Start: 65083, Stop: 64904, Start Num: 10
Candidate Starts for Burr_94:
(2, 65308), (4, 65254), (5, 65206), (Start: 10 @65083 has 65 MA's), (14, 64981), (15, 64972), (16,
64960),

Gene: Burton_78 Start: 49278, Stop: 49099, Start Num: 10
Candidate Starts for Burton_78:
(Start: 7 @49338 has 1 MA's), (Start: 10 @49278 has 65 MA's), (12, 49251), (14, 49176), (15, 49167),
(16, 49155),

Gene: Charles1_95 Start: 65391, Stop: 65212, Start Num: 10
Candidate Starts for Charles1_95:
(2, 65616), (4, 65562), (5, 65514), (Start: 10 @65391 has 65 MA's), (14, 65289), (15, 65280), (16,
65268),

Gene: ConceptII_83 Start: 49427, Stop: 49248, Start Num: 10
Candidate Starts for ConceptII_83:
(Start: 7 @49487 has 1 MA's), (Start: 10 @49427 has 65 MA's), (12, 49400), (14, 49325), (15, 49316),
(16, 49304),

Gene: Corvo_79 Start: 48769, Stop: 48590, Start Num: 10
Candidate Starts for Corvo_79:
(Start: 7 @48829 has 1 MA's), (Start: 10 @48769 has 65 MA's), (12, 48742), (14, 48667), (15, 48658),
(16, 48646),

Gene: Dexes_79 Start: 50024, Stop: 49830, Start Num: 9
Candidate Starts for Dexes_79:
(Start: 9 @50024 has 2 MA's), (11, 49985), (12, 49982), (14, 49907), (15, 49898), (16, 49886),

Gene: DirtJuice_93 Start: 65529, Stop: 65350, Start Num: 10
Candidate Starts for DirtJuice_93:
(2, 65754), (4, 65700), (5, 65652), (Start: 10 @65529 has 65 MA's), (14, 65427), (15, 65418), (16,
65406),

Gene: Dulcie_78 Start: 49375, Stop: 49196, Start Num: 10
Candidate Starts for Dulcie_78:
(Start: 7 @49435 has 1 MA's), (Start: 10 @49375 has 65 MA's), (12, 49348), (14, 49273), (15, 49264),
(16, 49252),

Gene: Dussy_76 Start: 46960, Stop: 46781, Start Num: 10

Candidate Starts for Dussy_76:

(Start: 7 @47020 has 1 MA's), (Start: 10 @46960 has 65 MA's), (12, 46933), (14, 46858), (15, 46849),

Gene: Espresso_71 Start: 45863, Stop: 45684, Start Num: 10

Candidate Starts for Espresso_71:

(1, 46124), (3, 46064), (6, 45977), (8, 45905), (Start: 10 @45863 has 65 MA's), (12, 45836), (14, 45761), (15, 45752), (16, 45740),

Gene: Euphoria_78 Start: 47780, Stop: 47601, Start Num: 10

Candidate Starts for Euphoria_78:

(Start: 7 @47840 has 1 MA's), (Start: 10 @47780 has 65 MA's), (12, 47753), (14, 47678), (15, 47669), (16, 47657),

Gene: Eyeball_76 Start: 47065, Stop: 46886, Start Num: 10

Candidate Starts for Eyeball_76:

(Start: 10 @47065 has 65 MA's), (12, 47038), (14, 46963), (15, 46954),

Gene: Forsytheast_79 Start: 47803, Stop: 47624, Start Num: 10

Candidate Starts for Forsytheast_79:

(Start: 7 @47863 has 1 MA's), (Start: 10 @47803 has 65 MA's), (12, 47776), (14, 47701), (15, 47692), (16, 47680),

Gene: Gandalf20_76 Start: 47148, Stop: 46969, Start Num: 10

Candidate Starts for Gandalf20_76:

(1, 47409), (3, 47349), (6, 47262), (8, 47190), (Start: 10 @47148 has 65 MA's), (12, 47121), (14, 47046), (15, 47037), (16, 47025),

Gene: GrecoEtereo_81 Start: 48777, Stop: 48598, Start Num: 10

Candidate Starts for GrecoEtereo_81:

(Start: 7 @48837 has 1 MA's), (Start: 10 @48777 has 65 MA's), (12, 48750), (14, 48675), (15, 48666), (16, 48654),

Gene: Gwendoluna_80 Start: 48587, Stop: 48435, Start Num: 12

Candidate Starts for Gwendoluna_80:

(Start: 7 @48674 has 1 MA's), (Start: 10 @48614 has 65 MA's), (12, 48587), (14, 48512), (15, 48503), (16, 48491),

Gene: HarryOW_78 Start: 48825, Stop: 48646, Start Num: 10

Candidate Starts for HarryOW_78:

(Start: 7 @48885 has 1 MA's), (Start: 10 @48825 has 65 MA's), (12, 48798), (14, 48723), (15, 48714), (16, 48702),

Gene: IgnatiusPatJac_77 Start: 46480, Stop: 46301, Start Num: 10

Candidate Starts for IgnatiusPatJac_77:

(Start: 7 @46540 has 1 MA's), (Start: 10 @46480 has 65 MA's), (12, 46453), (14, 46378), (15, 46369), (16, 46357),

Gene: JuliaChild_78 Start: 47708, Stop: 47529, Start Num: 10

Candidate Starts for JuliaChild_78:

(Start: 7 @47768 has 1 MA's), (Start: 10 @47708 has 65 MA's), (12, 47681), (14, 47606), (15, 47597), (16, 47585),

Gene: KBG_75 Start: 48363, Stop: 48184, Start Num: 10

Candidate Starts for KBG_75:

(Start: 7 @48423 has 1 MA's), (Start: 10 @48363 has 65 MA's), (12, 48336), (14, 48261), (15, 48252), (16, 48240),

Gene: Kanely_80 Start: 48103, Stop: 47924, Start Num: 10

Candidate Starts for Kanely_80:

(Start: 7 @48163 has 1 MA's), (Start: 10 @48103 has 65 MA's), (12, 48076), (14, 48001), (15, 47992), (16, 47980),

Gene: Kenmech_79 Start: 48086, Stop: 47907, Start Num: 10

Candidate Starts for Kenmech_79:

(Start: 7 @48146 has 1 MA's), (Start: 10 @48086 has 65 MA's), (12, 48059), (14, 47984), (15, 47975),

Gene: KyMonks1A_83 Start: 48417, Stop: 48238, Start Num: 10

Candidate Starts for KyMonks1A_83:

(Start: 10 @48417 has 65 MA's), (12, 48390), (14, 48315), (15, 48306),

Gene: Lesedi_74 Start: 45574, Stop: 45395, Start Num: 10

Candidate Starts for Lesedi_74:

(Start: 10 @45574 has 65 MA's), (12, 45547), (14, 45472), (15, 45463),

Gene: Licorice_79 Start: 49404, Stop: 49225, Start Num: 10

Candidate Starts for Licorice_79:

(Start: 7 @49464 has 1 MA's), (Start: 10 @49404 has 65 MA's), (12, 49377), (14, 49302), (15, 49293), (16, 49281),

Gene: Lopton_76 Start: 48419, Stop: 48240, Start Num: 10

Candidate Starts for Lopton_76:

(Start: 7 @48479 has 1 MA's), (Start: 10 @48419 has 65 MA's), (12, 48392), (14, 48317), (15, 48308), (16, 48296),

Gene: MPlant7149_77 Start: 46973, Stop: 46794, Start Num: 10

Candidate Starts for MPlant7149_77:

(Start: 7 @47033 has 1 MA's), (Start: 10 @46973 has 65 MA's), (12, 46946), (14, 46871), (15, 46862), (16, 46850),

Gene: Makemake_80 Start: 48024, Stop: 47845, Start Num: 10

Candidate Starts for Makemake_80:

(Start: 7 @48084 has 1 MA's), (Start: 10 @48024 has 65 MA's), (12, 47997), (14, 47922), (15, 47913), (16, 47901),

Gene: Manatee_75 Start: 45954, Stop: 45775, Start Num: 10

Candidate Starts for Manatee_75:

(Start: 7 @46014 has 1 MA's), (Start: 10 @45954 has 65 MA's), (12, 45927), (14, 45852), (15, 45843), (16, 45831),

Gene: MaryBeth_75 Start: 47244, Stop: 47065, Start Num: 10

Candidate Starts for MaryBeth_75:

(Start: 7 @47304 has 1 MA's), (Start: 10 @47244 has 65 MA's), (12, 47217), (14, 47142), (15, 47133), (16, 47121),

Gene: Mcshane_94 Start: 65069, Stop: 64890, Start Num: 10
Candidate Starts for Mcshane_94:
(2, 65294), (4, 65240), (5, 65192), (Start: 10 @65069 has 65 MA's), (14, 64967), (15, 64958), (16, 64946),

Gene: Megamind20_94 Start: 65033, Stop: 64854, Start Num: 10
Candidate Starts for Megamind20_94:
(2, 65258), (4, 65204), (5, 65156), (Start: 10 @65033 has 65 MA's), (14, 64931), (15, 64922), (16, 64910),

Gene: MetalQZJ_74 Start: 47244, Stop: 47065, Start Num: 10
Candidate Starts for MetalQZJ_74:
(Start: 7 @47304 has 1 MA's), (Start: 10 @47244 has 65 MA's), (12, 47217), (14, 47142), (15, 47133), (16, 47121),

Gene: Molly_77 Start: 46630, Stop: 46451, Start Num: 10
Candidate Starts for Molly_77:
(Start: 10 @46630 has 65 MA's), (12, 46603), (14, 46528), (15, 46519),

Gene: Moose_79 Start: 47803, Stop: 47624, Start Num: 10
Candidate Starts for Moose_79:
(Start: 7 @47863 has 1 MA's), (Start: 10 @47803 has 65 MA's), (12, 47776), (14, 47701), (15, 47692), (16, 47680),

Gene: Mryolo_72 Start: 45588, Stop: 45409, Start Num: 10
Candidate Starts for Mryolo_72:
(Start: 10 @45588 has 65 MA's), (12, 45561), (14, 45486), (15, 45477),

Gene: Mule_76 Start: 46670, Stop: 46491, Start Num: 10
Candidate Starts for Mule_76:
(Start: 9 @46685 has 2 MA's), (Start: 10 @46670 has 65 MA's), (12, 46643), (14, 46568), (15, 46559), (16, 46547),

Gene: Museum_77 Start: 47693, Stop: 47514, Start Num: 10
Candidate Starts for Museum_77:
(Start: 7 @47753 has 1 MA's), (Start: 10 @47693 has 65 MA's), (12, 47666), (13, 47633), (14, 47591), (15, 47582), (16, 47570),

Gene: NEHalo_73 Start: 46503, Stop: 46324, Start Num: 10
Candidate Starts for NEHalo_73:
(Start: 10 @46503 has 65 MA's), (12, 46476), (14, 46401), (15, 46392),

Gene: Niza_77 Start: 47976, Stop: 47797, Start Num: 10
Candidate Starts for Niza_77:
(Start: 10 @47976 has 65 MA's), (12, 47949), (14, 47874), (15, 47865),

Gene: Ohno789_80 Start: 48726, Stop: 48547, Start Num: 10
Candidate Starts for Ohno789_80:
(Start: 10 @48726 has 65 MA's), (12, 48699), (14, 48624), (15, 48615),

Gene: Olak_94 Start: 65239, Stop: 65060, Start Num: 10
Candidate Starts for Olak_94:

(2, 65464), (4, 65410), (5, 65362), (Start: 10 @65239 has 65 MA's), (14, 65137), (15, 65128), (16, 65116),

Gene: Orwigg_94 Start: 64995, Stop: 64816, Start Num: 10

Candidate Starts for Orwigg_94:

(2, 65220), (4, 65166), (5, 65118), (Start: 10 @64995 has 65 MA's), (14, 64893), (15, 64884), (16, 64872),

Gene: PSullivan_75 Start: 45776, Stop: 45597, Start Num: 10

Candidate Starts for PSullivan_75:

(Start: 7 @45836 has 1 MA's), (Start: 10 @45776 has 65 MA's), (12, 45749), (14, 45674), (15, 45665), (16, 45653),

Gene: Pacifista_95 Start: 65080, Stop: 64901, Start Num: 10

Candidate Starts for Pacifista_95:

(2, 65305), (4, 65251), (5, 65203), (Start: 10 @65080 has 65 MA's), (14, 64978), (15, 64969), (16, 64957),

Gene: Paphu_72 Start: 46216, Stop: 46022, Start Num: 9

Candidate Starts for Paphu_72:

(Start: 9 @46216 has 2 MA's), (11, 46177), (12, 46174), (14, 46099), (15, 46090), (16, 46078),

Gene: Pari_82 Start: 47570, Stop: 47391, Start Num: 10

Candidate Starts for Pari_82:

(Start: 7 @47630 has 1 MA's), (Start: 10 @47570 has 65 MA's), (12, 47543), (14, 47468), (15, 47459), (16, 47447),

Gene: Parliament_78 Start: 49751, Stop: 49572, Start Num: 10

Candidate Starts for Parliament_78:

(Start: 7 @49811 has 1 MA's), (Start: 10 @49751 has 65 MA's), (12, 49724), (14, 49649), (15, 49640), (16, 49628),

Gene: PascalRango_75 Start: 46845, Stop: 46666, Start Num: 10

Candidate Starts for PascalRango_75:

(Start: 7 @46905 has 1 MA's), (Start: 10 @46845 has 65 MA's), (12, 46818), (14, 46743), (15, 46734), (16, 46722),

Gene: PattyP_77 Start: 47399, Stop: 47220, Start Num: 10

Candidate Starts for PattyP_77:

(Start: 7 @47459 has 1 MA's), (Start: 10 @47399 has 65 MA's), (12, 47372), (14, 47297), (15, 47288), (16, 47276),

Gene: Perseus_77 Start: 48832, Stop: 48653, Start Num: 10

Candidate Starts for Perseus_77:

(Start: 7 @48892 has 1 MA's), (Start: 10 @48832 has 65 MA's), (12, 48805), (14, 48730), (15, 48721), (16, 48709),

Gene: Pita2_78 Start: 47272, Stop: 47093, Start Num: 10

Candidate Starts for Pita2_78:

(Start: 7 @47332 has 1 MA's), (Start: 10 @47272 has 65 MA's), (12, 47245), (14, 47170), (15, 47161), (16, 47149),

Gene: STLscum_83 Start: 48046, Stop: 47867, Start Num: 10

Candidate Starts for STLscum_83:

(Start: 10 @48046 has 65 MA's), (12, 48019), (14, 47944), (15, 47935),

Gene: Sandaddy_75 Start: 47426, Stop: 47247, Start Num: 10

Candidate Starts for Sandaddy_75:

(Start: 7 @47486 has 1 MA's), (Start: 10 @47426 has 65 MA's), (12, 47399), (14, 47324), (15, 47315), (16, 47303),

Gene: Scrick_93 Start: 65064, Stop: 64885, Start Num: 10

Candidate Starts for Scrick_93:

(2, 65289), (4, 65235), (5, 65187), (Start: 10 @65064 has 65 MA's), (14, 64962), (15, 64953), (16, 64941),

Gene: Selr12_96 Start: 65105, Stop: 64926, Start Num: 10

Candidate Starts for Selr12_96:

(2, 65330), (4, 65276), (5, 65228), (Start: 10 @65105 has 65 MA's), (14, 65003), (15, 64994), (16, 64982),

Gene: Sibs6_77 Start: 44740, Stop: 44561, Start Num: 10

Candidate Starts for Sibs6_77:

(Start: 7 @44800 has 1 MA's), (Start: 10 @44740 has 65 MA's), (12, 44713), (14, 44638), (15, 44629), (16, 44617),

Gene: Slatt_94 Start: 65345, Stop: 65166, Start Num: 10

Candidate Starts for Slatt_94:

(2, 65570), (4, 65516), (5, 65468), (Start: 10 @65345 has 65 MA's), (14, 65243), (15, 65234), (16, 65222),

Gene: Smairt_81 Start: 49860, Stop: 49681, Start Num: 10

Candidate Starts for Smairt_81:

(Start: 9 @49875 has 2 MA's), (Start: 10 @49860 has 65 MA's), (12, 49833), (14, 49758), (15, 49749), (16, 49737),

Gene: Sorpresa_74 Start: 47432, Stop: 47253, Start Num: 10

Candidate Starts for Sorpresa_74:

(Start: 7 @47492 has 1 MA's), (Start: 10 @47432 has 65 MA's), (12, 47405), (14, 47330), (15, 47321), (16, 47309),

Gene: SpikeBT_74 Start: 46360, Stop: 46181, Start Num: 10

Candidate Starts for SpikeBT_74:

(Start: 7 @46420 has 1 MA's), (Start: 10 @46360 has 65 MA's), (12, 46333), (14, 46258), (15, 46249), (16, 46237),

Gene: StewieG_73 Start: 44483, Stop: 44331, Start Num: 12

Candidate Starts for StewieG_73:

(Start: 7 @44570 has 1 MA's), (Start: 10 @44510 has 65 MA's), (12, 44483), (14, 44408), (15, 44399), (16, 44387),

Gene: SwissCheese_81 Start: 47423, Stop: 47244, Start Num: 10

Candidate Starts for SwissCheese_81:

(Start: 7 @47483 has 1 MA's), (Start: 10 @47423 has 65 MA's), (12, 47396), (14, 47321), (15, 47312), (16, 47300),

Gene: Swole_75 Start: 47182, Stop: 47003, Start Num: 10

Candidate Starts for Swole_75:

(Start: 7 @47242 has 1 MA's), (Start: 10 @47182 has 65 MA's), (12, 47155), (14, 47080), (15, 47071), (16, 47059),

Gene: Tasp14_76 Start: 47470, Stop: 47291, Start Num: 10

Candidate Starts for Tasp14_76:

(Start: 7 @47530 has 1 MA's), (Start: 10 @47470 has 65 MA's), (12, 47443), (14, 47368), (15, 47359), (16, 47347),

Gene: Tote_73 Start: 44450, Stop: 44271, Start Num: 10

Candidate Starts for Tote_73:

(Start: 7 @44510 has 1 MA's), (Start: 10 @44450 has 65 MA's), (12, 44423), (14, 44348), (15, 44339), (16, 44327),

Gene: True_93 Start: 65063, Stop: 64884, Start Num: 10

Candidate Starts for True_93:

(2, 65288), (4, 65234), (5, 65186), (Start: 10 @65063 has 65 MA's), (14, 64961), (15, 64952), (16, 64940),

Gene: U2_71 Start: 47284, Stop: 47045, Start Num: 7

Candidate Starts for U2_71:

(Start: 7 @47284 has 1 MA's), (Start: 10 @47224 has 65 MA's), (12, 47197), (14, 47122), (15, 47113), (16, 47101),

Gene: Watermelon_80 Start: 48529, Stop: 48350, Start Num: 10

Candidate Starts for Watermelon_80:

(Start: 7 @48589 has 1 MA's), (Start: 10 @48529 has 65 MA's), (12, 48502), (14, 48427), (15, 48418), (16, 48406),

Gene: Zeeculate_73 Start: 47347, Stop: 47168, Start Num: 10

Candidate Starts for Zeeculate_73:

(Start: 7 @47407 has 1 MA's), (Start: 10 @47347 has 65 MA's), (12, 47320), (14, 47245), (15, 47236), (16, 47224),