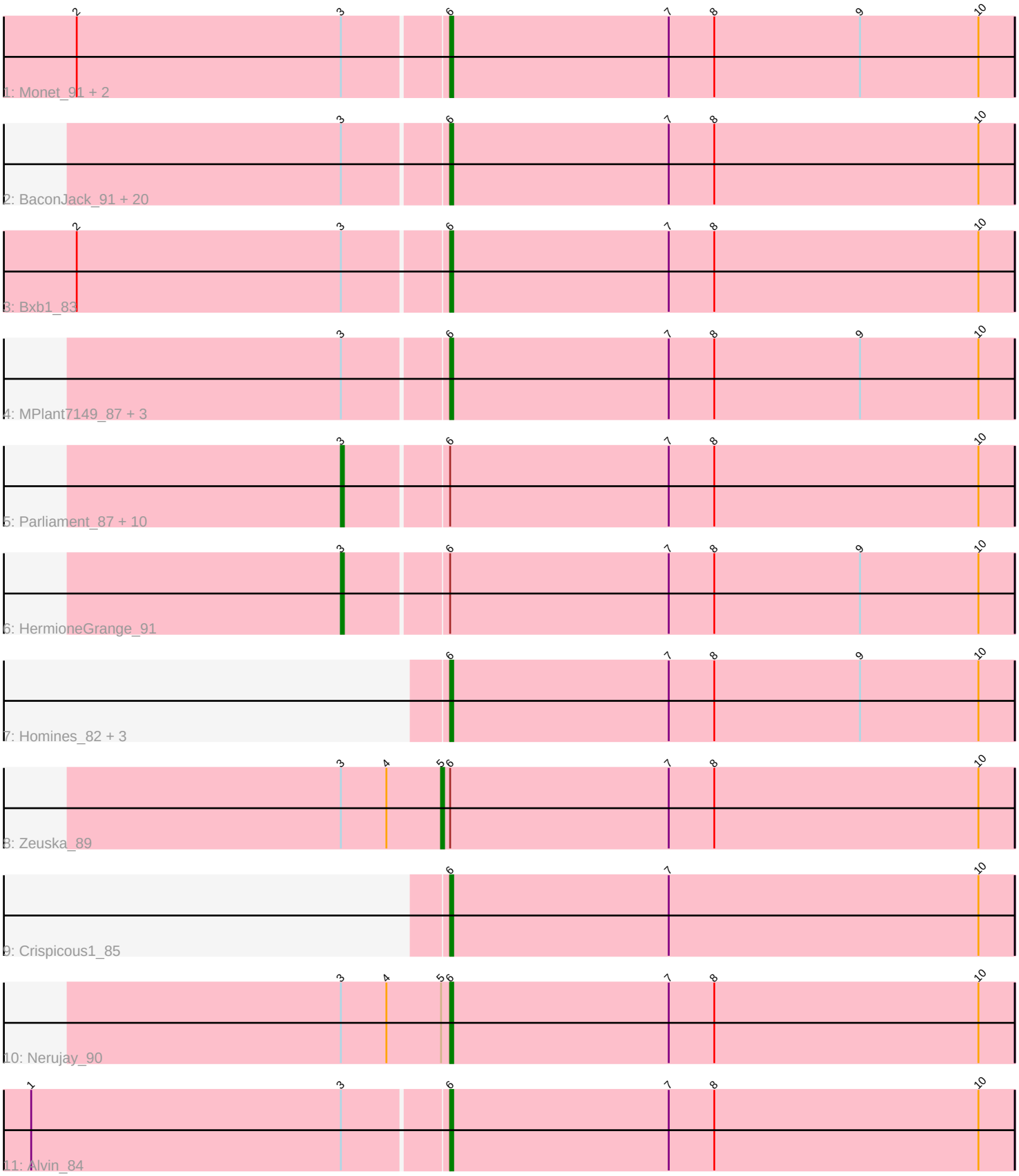
Pham 85845


1: Monet_91 + 2
2: BaconJack_91 + 20
3: Bxb1_83
4: MPlant7149_87 + 3
5: Parliament_87 + 10
6: HermioneGrange_91
7: Homines_82 + 3
8: Zeuska_89
9: Crispicous1_85
10: Nerujay_90
11: Alvin_84

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 85845 Report

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

Pham number 85845 has 49 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Monet_91, Gyzlar_80, Treddle_88
• Track 2 : BaconJack_91, Sumter_84, Ashballer_88, Lamina13_90, Perseus_87, Aeneas_92, Hami1_80, Dulcie_88, Bob3_87, Edtherson_84, Rutherferd_88, Applejack_86, RidgeCB_86, JC27_91, JackSparrow_89, SkiPole_95, Solon_80, Gandalf20_87, PhrostyMug_91, StewieG_83, Abrogate_850
• Track 3 : Bxb1_83
• Track 4 : MPlant7149_87, Rohr_89, BigMau_88, Jerm2_87
• Track 5 : Parliament_87, Smairt_94, HarryOW_88, Pippin_90, Mule_89, Jorgensen_97, Marsha_90, Trouble_87, Paraselene_84, Sunshine924_90, Tasp14_84
• Track 6 : HermioneGrange_91
• Track 7 : Homines_82, Marchy_78, Teodoridan_92, Payneful_74
• Track 8 : Zeuska_89
• Track 9 : Crispicous1_85
• Track 10 : Nerujay_90
• Track 11 : Alvin_84

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

The start number called the most often in the published annotations is 6, it was called in 30 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abrogate_850, Aeneas_92, Alvin_84, Applejack_86, Ashballer_88, BaconJack_91, BigMau_88, Bob3_87, Bxb1_83, Crispicous1_85, Dulcie_88, Edtherson_84, Gandalf20_87, Gyzlar_80, Hami1_80, Homines_82, JC27_91, JackSparrow_89, Jerm2_87, Lamina13_90, MPlant7149_87, Marchy_78, Monet_91, Nerujay_90, Payneful_74, Perseus_87, PhrostyMug_91, RidgeCB_86, Rohr_89, Rutherferd_88, SkiPole_95, Solon_80, StewieG_83, Sumter_84, Teodoridan_92, Treddle_88,

Genes that have the "Most Annotated" start but do not call it:
• HarryOW_88, HermioneGrange_91, Jorgensen_97, Marsha_90, Mule_89, Paraselene_84, Parliament_87, Pippin_90, Smairt_94, Sunshine924_90, Tasp14_84, Trouble_87, Zeuska_89,

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

Summary by start number:

Start 3:
• Found in 44 of 49 (89.8%) of genes in pham
• Manual Annotations of this start: 12 of 43
• Called 27.3% of time when present
• Phage (with cluster) where this start called: HarryOW_88 (A1), HermioneGrange_91 (A1), Jorgensen_97 (A1), Marsha_90 (A1), Mule_89 (A1), Paraselene_84 (A1), Parliament_87 (A1), Pippin_90 (A1), Smairt_94 (A1), Sunshine924_90 (A1), Tasp14_84 (A1), Trouble_87 (A1),

Start 5:
• Found in 2 of 49 (4.1%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Zeuska_89 (A1),

Start 6:
• Found in 49 of 49 (100.0%) of genes in pham
• Manual Annotations of this start: 30 of 43
• Called 73.5% of time when present
• Phage (with cluster) where this start called: Abrogate_850 (A1), Aeneas_92 (A1), Alvin_84 (A1), Applejack_86 (A1), Ashballer_88 (A1), BaconJack_91 (A1), BigMau_88 (A1), Bob3_87 (A1), Bxb1_83 (A1), Crispicous1_85 (A1), Dulcie_88 (A1), Edtherson_84 (A1), Gandalf20_87 (A1), Gyzlar_80 (A1), Hami1_80 (A1), Homines_82 (A1), JC27_91 (A1), JackSparrow_89 (A1), Jerm2_87 (A1), Lamina13_90 (A1), MPlant7149_87 (A1), Marchy_78 (A1), Monet_91 (A1), Nerujay_90 (A1), Payneful_74 (A1), Perseus_87 (A1), PhrostyMug_91 (A1), RidgeCB_86 (A1), Rohr_89 (A1), Rutherferd_88 (A1), SkiPole_95 (A1), Solon_80 (A1), StewieG_83 (A1), Sumter_84 (A1), Teodoridan_92 (A1), Treddle_88 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:
•Start number 3 was manually annotated 12 times for cluster A1.
•Start number 5 was manually annotated 1 time for cluster A1.
•Start number 6 was manually annotated 30 times for cluster A1.

Gene Information:

Gene: Abrogate_850 Start: 50388, Stop: 50203, Start Num: 6
Candidate Starts for Abrogate_850:
(Start: 3 @50421 has 12 MA's), (Start: 6 @50388 has 30 MA's), (7, 50316), (8, 50301), (10, 50214),

Gene: Aeneas_92 Start: 51688, Stop: 51503, Start Num: 6

Candidate Starts for Aeneas_92:
(Start: 3 @51721 has 12 MA's), (Start: 6 @51688 has 30 MA's), (7, 51616), (8, 51601), (10, 51514),

Gene: Alvin_84 Start: 48731, Stop: 48546, Start Num: 6
Candidate Starts for Alvin_84:
(1, 48866), (Start: 3 @48764 has 12 MA's), (Start: 6 @48731 has 30 MA's), (7, 48659), (8, 48644), (10, 48557),

Gene: Applejack_86 Start: 47627, Stop: 47442, Start Num: 6
Candidate Starts for Applejack_86:
(Start: 3 @47660 has 12 MA's), (Start: 6 @47627 has 30 MA's), (7, 47555), (8, 47540), (10, 47453),

Gene: Ashballer_88 Start: 50090, Stop: 49905, Start Num: 6
Candidate Starts for Ashballer_88:
(Start: 3 @50123 has 12 MA's), (Start: 6 @50090 has 30 MA's), (7, 50018), (8, 50003), (10, 49916),

Gene: BaconJack_91 Start: 51639, Stop: 51454, Start Num: 6
Candidate Starts for BaconJack_91:
(Start: 3 @51672 has 12 MA's), (Start: 6 @51639 has 30 MA's), (7, 51567), (8, 51552), (10, 51465),

Gene: BigMau_88 Start: 50650, Stop: 50465, Start Num: 6
Candidate Starts for BigMau_88:
(Start: 3 @50683 has 12 MA's), (Start: 6 @50650 has 30 MA's), (7, 50578), (8, 50563), (9, 50515), (10, 50476),

Gene: Bob3_87 Start: 50084, Stop: 49899, Start Num: 6
Candidate Starts for Bob3_87:
(Start: 3 @50117 has 12 MA's), (Start: 6 @50084 has 30 MA's), (7, 50012), (8, 49997), (10, 49910),

Gene: Bxb1_83 Start: 48689, Stop: 48504, Start Num: 6
Candidate Starts for Bxb1_83:
(2, 48809), (Start: 3 @48722 has 12 MA's), (Start: 6 @48689 has 30 MA's), (7, 48617), (8, 48602), (10, 48515),

Gene: Crispicous1_85 Start: 49027, Stop: 48842, Start Num: 6
Candidate Starts for Crispicous1_85:
(Start: 6 @49027 has 30 MA's), (7, 48955), (10, 48853),

Gene: Dulcie_88 Start: 51834, Stop: 51649, Start Num: 6
Candidate Starts for Dulcie_88:
(Start: 3 @51867 has 12 MA's), (Start: 6 @51834 has 30 MA's), (7, 51762), (8, 51747), (10, 51660),

Gene: Edtherson_84 Start: 49329, Stop: 49144, Start Num: 6
Candidate Starts for Edtherson_84:
(Start: 3 @49362 has 12 MA's), (Start: 6 @49329 has 30 MA's), (7, 49257), (8, 49242), (10, 49155),

Gene: Gandalf20_87 Start: 49581, Stop: 49396, Start Num: 6
Candidate Starts for Gandalf20_87:
(Start: 3 @49614 has 12 MA's), (Start: 6 @49581 has 30 MA's), (7, 49509), (8, 49494), (10, 49407),

Gene: Gyzlar_80 Start: 46841, Stop: 46656, Start Num: 6
Candidate Starts for Gyzlar_80:

(2, 46961), (Start: 3 @46874 has 12 MA's), (Start: 6 @46841 has 30 MA's), (7, 46769), (8, 46754), (9, 46706), (10, 46667),

Gene: Hami1_80 Start: 45707, Stop: 45522, Start Num: 6
Candidate Starts for Hami1_80:
(Start: 3 @45740 has 12 MA's), (Start: 6 @45707 has 30 MA's), (7, 45635), (8, 45620), (10, 45533),

Gene: HarryOW_88 Start: 50964, Stop: 50746, Start Num: 3
Candidate Starts for HarryOW_88:
(Start: 3 @50964 has 12 MA's), (Start: 6 @50931 has 30 MA's), (7, 50859), (8, 50844), (10, 50757),

Gene: HermioneGrange_91 Start: 51178, Stop: 50960, Start Num: 3
Candidate Starts for HermioneGrange_91:
(Start: 3 @51178 has 12 MA's), (Start: 6 @51145 has 30 MA's), (7, 51073), (8, 51058), (9, 51010), (10, 50971),

Gene: Homines_82 Start: 46712, Stop: 46527, Start Num: 6
Candidate Starts for Homines_82:
(Start: 6 @46712 has 30 MA's), (7, 46640), (8, 46625), (9, 46577), (10, 46538),

Gene: JC27_91 Start: 50162, Stop: 49977, Start Num: 6
Candidate Starts for JC27_91:
(Start: 3 @50195 has 12 MA's), (Start: 6 @50162 has 30 MA's), (7, 50090), (8, 50075), (10, 49988),

Gene: JackSparrow_89 Start: 49600, Stop: 49415, Start Num: 6
Candidate Starts for JackSparrow_89:
(Start: 3 @49633 has 12 MA's), (Start: 6 @49600 has 30 MA's), (7, 49528), (8, 49513), (10, 49426),

Gene: Jerm2_87 Start: 51214, Stop: 51029, Start Num: 6
Candidate Starts for Jerm2_87:
(Start: 3 @51247 has 12 MA's), (Start: 6 @51214 has 30 MA's), (7, 51142), (8, 51127), (9, 51079), (10, 51040),

Gene: Jorgensen_97 Start: 51654, Stop: 51436, Start Num: 3
Candidate Starts for Jorgensen_97:
(Start: 3 @51654 has 12 MA's), (Start: 6 @51621 has 30 MA's), (7, 51549), (8, 51534), (10, 51447),

Gene: Lamina13_90 Start: 51254, Stop: 51069, Start Num: 6
Candidate Starts for Lamina13_90:
(Start: 3 @51287 has 12 MA's), (Start: 6 @51254 has 30 MA's), (7, 51182), (8, 51167), (10, 51080),

Gene: MPlant7149_87 Start: 49375, Stop: 49190, Start Num: 6
Candidate Starts for MPlant7149_87:
(Start: 3 @49408 has 12 MA's), (Start: 6 @49375 has 30 MA's), (7, 49303), (8, 49288), (9, 49240), (10, 49201),

Gene: Marchy_78 Start: 47395, Stop: 47580, Start Num: 6
Candidate Starts for Marchy_78:
(Start: 6 @47395 has 30 MA's), (7, 47467), (8, 47482), (9, 47530), (10, 47569),

Gene: Marsha_90 Start: 52484, Stop: 52266, Start Num: 3
Candidate Starts for Marsha_90:
(Start: 3 @52484 has 12 MA's), (Start: 6 @52451 has 30 MA's), (7, 52379), (8, 52364), (10, 52277),

Gene: Monet_91 Start: 51521, Stop: 51336, Start Num: 6
Candidate Starts for Monet_91:
(2, 51641), (Start: 3 @51554 has 12 MA's), (Start: 6 @51521 has 30 MA's), (7, 51449), (8, 51434), (9, 51386), (10, 51347),

Gene: Mule_89 Start: 49502, Stop: 49284, Start Num: 3
Candidate Starts for Mule_89:
(Start: 3 @49502 has 12 MA's), (Start: 6 @49469 has 30 MA's), (7, 49397), (8, 49382), (10, 49295),

Gene: Nerujay_90 Start: 51214, Stop: 51029, Start Num: 6
Candidate Starts for Nerujay_90:
(Start: 3 @51250 has 12 MA's), (4, 51235), (Start: 5 @51217 has 1 MA's), (Start: 6 @51214 has 30 MA's), (7, 51142), (8, 51127), (10, 51040),

Gene: Paraselene_84 Start: 49039, Stop: 48821, Start Num: 3
Candidate Starts for Paraselene_84:
(Start: 3 @49039 has 12 MA's), (Start: 6 @49006 has 30 MA's), (7, 48934), (8, 48919), (10, 48832),

Gene: Parliament_87 Start: 51770, Stop: 51552, Start Num: 3
Candidate Starts for Parliament_87:
(Start: 3 @51770 has 12 MA's), (Start: 6 @51737 has 30 MA's), (7, 51665), (8, 51650), (10, 51563),

Gene: Payneful_74 Start: 46487, Stop: 46672, Start Num: 6
Candidate Starts for Payneful_74:
(Start: 6 @46487 has 30 MA's), (7, 46559), (8, 46574), (9, 46622), (10, 46661),

Gene: Perseus_87 Start: 51265, Stop: 51080, Start Num: 6
Candidate Starts for Perseus_87:
(Start: 3 @51298 has 12 MA's), (Start: 6 @51265 has 30 MA's), (7, 51193), (8, 51178), (10, 51091),

Gene: PhrostyMug_91 Start: 51639, Stop: 51454, Start Num: 6
Candidate Starts for PhrostyMug_91:
(Start: 3 @51672 has 12 MA's), (Start: 6 @51639 has 30 MA's), (7, 51567), (8, 51552), (10, 51465),

Gene: Pippin_90 Start: 50175, Stop: 49957, Start Num: 3
Candidate Starts for Pippin_90:
(Start: 3 @50175 has 12 MA's), (Start: 6 @50142 has 30 MA's), (7, 50070), (8, 50055), (10, 49968),

Gene: RidgeCB_86 Start: 48713, Stop: 48528, Start Num: 6
Candidate Starts for RidgeCB_86:
(Start: 3 @48746 has 12 MA's), (Start: 6 @48713 has 30 MA's), (7, 48641), (8, 48626), (10, 48539),

Gene: Rohr_89 Start: 51465, Stop: 51280, Start Num: 6
Candidate Starts for Rohr_89:
(Start: 3 @51498 has 12 MA's), (Start: 6 @51465 has 30 MA's), (7, 51393), (8, 51378), (9, 51330), (10, 51291),

Gene: Rutherferd_88 Start: 50173, Stop: 49988, Start Num: 6
Candidate Starts for Rutherferd_88:
(Start: 3 @50206 has 12 MA's), (Start: 6 @50173 has 30 MA's), (7, 50101), (8, 50086), (10, 49999),

Gene: SkiPole_95 Start: 51002, Stop: 50817, Start Num: 6

Candidate Starts for SkiPole_95:
(Start: 3 @51035 has 12 MA's), (Start: 6 @51002 has 30 MA's), (7, 50930), (8, 50915), (10, 50828),

Gene: Smairt_94 Start: 52689, Stop: 52471, Start Num: 3
Candidate Starts for Smairt_94:
(Start: 3 @52689 has 12 MA's), (Start: 6 @52656 has 30 MA's), (7, 52584), (8, 52569), (10, 52482),

Gene: Solon_80 Start: 47319, Stop: 47134, Start Num: 6
Candidate Starts for Solon_80:
(Start: 3 @47352 has 12 MA's), (Start: 6 @47319 has 30 MA's), (7, 47247), (8, 47232), (10, 47145),

Gene: StewieG_83 Start: 47245, Stop: 47060, Start Num: 6
Candidate Starts for StewieG_83:
(Start: 3 @47278 has 12 MA's), (Start: 6 @47245 has 30 MA's), (7, 47173), (8, 47158), (10, 47071),

Gene: Sumter_84 Start: 50651, Stop: 50466, Start Num: 6
Candidate Starts for Sumter_84:
(Start: 3 @50684 has 12 MA's), (Start: 6 @50651 has 30 MA's), (7, 50579), (8, 50564), (10, 50477),

Gene: Sunshine924_90 Start: 49220, Stop: 49002, Start Num: 3
Candidate Starts for Sunshine924_90:
(Start: 3 @49220 has 12 MA's), (Start: 6 @49187 has 30 MA's), (7, 49115), (8, 49100), (10, 49013),

Gene: Tasp14_84 Start: 49450, Stop: 49232, Start Num: 3
Candidate Starts for Tasp14_84:
(Start: 3 @49450 has 12 MA's), (Start: 6 @49417 has 30 MA's), (7, 49345), (8, 49330), (10, 49243),

Gene: Teodoridan_92 Start: 50355, Stop: 50170, Start Num: 6
Candidate Starts for Teodoridan_92:
(Start: 6 @50355 has 30 MA's), (7, 50283), (8, 50268), (9, 50220), (10, 50181),

Gene: Treddle_88 Start: 51165, Stop: 50980, Start Num: 6
Candidate Starts for Treddle_88:
(2, 51285), (Start: 3 @51198 has 12 MA's), (Start: 6 @51165 has 30 MA's), (7, 51093), (8, 51078), (9, 51030), (10, 50991),

Gene: Trouble_87 Start: 50127, Stop: 49909, Start Num: 3
Candidate Starts for Trouble_87:
(Start: 3 @50127 has 12 MA's), (Start: 6 @50094 has 30 MA's), (7, 50022), (8, 50007), (10, 49920),

Gene: Zeuska_89 Start: 51540, Stop: 51352, Start Num: 5
Candidate Starts for Zeuska_89:
(Start: 3 @51573 has 12 MA's), (4, 51558), (Start: 5 @51540 has 1 MA's), (Start: 6 @51537 has 30 MA's), (7, 51465), (8, 51450), (10, 51363),