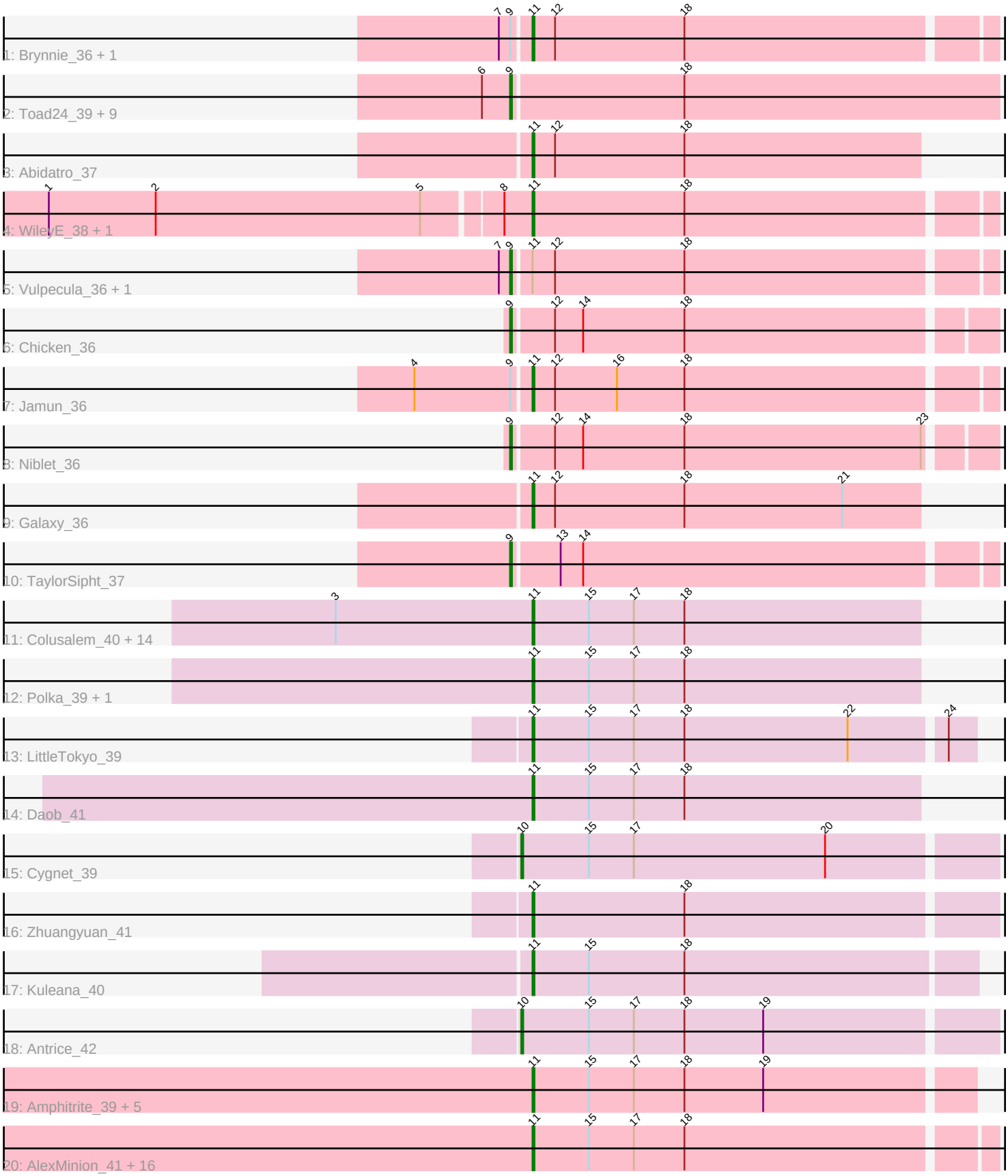
Pham 298419


1: Brynnie_36 + 1
2: Toad24_39 + 9
3: Abidatro_37
4: WileyE_38 + 1
5: Vulpecula_36 + 1
6: Chicken_36
7: Jamun_36
8: Niblet_36
9: Galaxy_36
10: TaylorSipht_37
11: Colusalem_40 + 14
12: Polka_39 + 1
13: LittleTokyo_39
14: Daob_41
15: Cygnet_39
16: Zhuangyuan_41
17: Kuleana_40
18: Antrice_42
19: Amphitrite_39 + 5
20: AlexMinion_41 + 16

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 298419 Report

This analysis was run 06/08/26 on database version 649.

Pham number 298419 has 68 members, 18 are drafts.

Phages represented in each track:
• Track 1 : Brynnie_36, Basilisk_37
• Track 2 : Toad24_39, Gravel_46, Orcanus_37, Shen_36, Pelletreau_46, Westrich_45, Eesa_36, KendraB23_47, Zixiang_36, Amanises_39
• Track 3 : Abidatro_37
• Track 4 : WileyE_38, Chickaboom_38
• Track 5 : Vulpecula_36, Ruchi_36
• Track 6 : Chicken_36
• Track 7 : Jamun_36
• Track 8 : Niblet_36
• Track 9 : Galaxy_36
• Track 10 : TaylorSipht_37
• Track 11 : Colusalem_40, PhirstandPhine_48, Amelia_39, GramZayde_41, Cote_41, Pineda_42, Damocles_43, Kepler_41, Bedetta_44, Bibble12_43, Lunar_41, Jerole_40, HannahPhantana_40, Melons_41, Coral_39
• Track 12 : Polka_39, OtsoOtso_40
• Track 13 : LittleTokyo_39
• Track 14 : Daob_41
• Track 15 : Cygnet_39
• Track 16 : Zhuangyuan_41
• Track 17 : Kuleana_40
• Track 18 : Antrice_42
• Track 19 : Amphitrite_39, Glotell_40, PhluffyCoco_39, HamCheese_39, Laphuphu24k_38, Rattail_39
• Track 20 : AlexMinion_41, Leona_38, Fingolfin_39, AdoptaAdorbs_38, AmiCi24_38, Juno112_38, Atlantica_39, Andrew_40, Azaz_40, Camara_39, KHumphrey_39, RedFox_39, Renna12_38, StuartMinion_31, DanHam62_39, Babushka_36, Oppalora_38

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

The start number called the most often in the published annotations is 11, it was called in 38 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Abidatro_37, AdoptaAdorbs_38, AlexMinion_41, Amelia_39, AmiCi24_38, Amphitrite_39, Andrew_40, Atlantica_39, Azaz_40, Babushka_36, Basilisk_37, Bedetta_44, Bibble12_43, Brynnie_36, Camara_39, Chickaboom_38, Colusalem_40, Coral_39, Cote_41, Damocles_43, DanHam62_39, Daob_41, Fingolfin_39, Galaxy_36, Glotell_40, GramZayde_41, HamCheese_39, HannahPhantana_40, Jamun_36, Jerole_40, Juno112_38, KHumphrey_39, Kepler_41, Kuleana_40, Laphuphu24k_38, Leona_38, LittleTokyo_39, Lunar_41, Melons_41, Oppalora_38, OtsoOtso_40, PhirstandPhine_48, PhluffyCoco_39, Pineda_42, Polka_39, Rattail_39, RedFox_39, Renna12_38, StuartMinion_31, WileyE_38, Zhuangyuan_41,

Genes that have the "Most Annotated" start but do not call it:
• Ruchi_36, Vulpecula_36,

Genes that do not have the "Most Annotated" start:
• Amanises_39, Antrice_42, Chicken_36, Cygnet_39, Eesa_36, Gravel_46, KendraB23_47, Niblet_36, Orcanus_37, Pelletreau_46, Shen_36, TaylorSipht_37, Toad24_39, Westrich_45, Zixiang_36,

Summary by start number:

Start 9:
• Found in 18 of 68 (26.5%) of genes in pham
• Manual Annotations of this start: 10 of 50
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Amanises_39 (AS1), Chicken_36 (AS1), Eesa_36 (AS1), Gravel_46 (AS1), KendraB23_47 (AS1), Niblet_36 (AS1), Orcanus_37 (AS1), Pelletreau_46 (AS1), Ruchi_36 (AS1), Shen_36 (AS1), TaylorSipht_37 (AS1), Toad24_39 (AS1), Vulpecula_36 (AS1), Westrich_45 (AS1), Zixiang_36 (AS1),

Start 10:
• Found in 2 of 68 (2.9%) of genes in pham
• Manual Annotations of this start: 2 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antrice_42 (AS2), Cygnet_39 (AS2),

Start 11:
• Found in 53 of 68 (77.9%) of genes in pham
• Manual Annotations of this start: 38 of 50
• Called 96.2% of time when present
• Phage (with cluster) where this start called: Abidatro_37 (AS1), AdoptaAdorbs_38 (AS3), AlexMinion_41 (AS3), Amelia_39 (AS2), AmiCi24_38 (AS3), Amphitrite_39 (AS3), Andrew_40 (AS3), Atlantica_39 (AS3), Azaz_40 (AS3), Babushka_36 (AS3), Basilisk_37 (AS1), Bedetta_44 (AS2), Bibble12_43 (AS2), Brynnie_36 (AS1), Camara_39 (AS3), Chickaboom_38 (AS1), Colusalem_40 (AS2), Coral_39 (AS2), Cote_41 (AS2), Damocles_43 (AS2), DanHam62_39 (AS3), Daob_41 (AS2), Fingolfin_39 (AS3), Galaxy_36 (AS1), Glotell_40 (AS3), GramZayde_41 (AS2), HamCheese_39 (AS3), HannahPhantana_40 (AS2), Jamun_36 (AS1), Jerole_40 (AS2), Juno112_38 (AS3), KHumphrey_39 (AS3), Kepler_41 (AS2), Kuleana_40 (AS2), Laphuphu24k_38 (AS3), Leona_38 (AS3), LittleTokyo_39 (AS2), Lunar_41 (AS2), Melons_41 (AS2), Oppalora_38 (AS3), OtsoOtso_40 (AS2), PhirstandPhine_48 (AS2), PhluffyCoco_39 (AS3), Pineda_42 (AS2), Polka_39 (AS2), Rattail_39 (AS3), RedFox_39 (AS3), Renna12_38 (AS3), StuartMinion_31 (AS3),

WileyE_38 (AS1), Zhuangyuan_41 (AS2),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:
•Start number 9 was manually annotated 10 times for cluster AS1.
•Start number 11 was manually annotated 7 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 10 was manually annotated 2 times for cluster AS2.
•Start number 11 was manually annotated 15 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 11 was manually annotated 16 times for cluster AS3.

Gene Information:

Gene: Abidatro_37 Start: 25098, Stop: 25304, Start Num: 11
Candidate Starts for Abidatro_37:
(Start: 11 @25098 has 38 MA's), (12, 25110), (18, 25179),

Gene: AdoptaAdorbs_38 Start: 24774, Stop: 25004, Start Num: 11
Candidate Starts for AdoptaAdorbs_38:
(Start: 11 @24774 has 38 MA's), (15, 24804), (17, 24828), (18, 24855),

Gene: AlexMinion_41 Start: 24931, Stop: 25170, Start Num: 11
Candidate Starts for AlexMinion_41:
(Start: 11 @24931 has 38 MA's), (15, 24961), (17, 24985), (18, 25012),

Gene: Amanises_39 Start: 26103, Stop: 26360, Start Num: 9
Candidate Starts for Amanises_39:
(6, 26088), (Start: 9 @26103 has 10 MA's), (18, 26193),

Gene: Amelia_39 Start: 24861, Stop: 25067, Start Num: 11
Candidate Starts for Amelia_39:
(3, 24756), (Start: 11 @24861 has 38 MA's), (15, 24891), (17, 24915), (18, 24942),

Gene: AmiCi24_38 Start: 24772, Stop: 25002, Start Num: 11
Candidate Starts for AmiCi24_38:
(Start: 11 @24772 has 38 MA's), (15, 24802), (17, 24826), (18, 24853),

Gene: Amphitrite_39 Start: 24773, Stop: 25003, Start Num: 11
Candidate Starts for Amphitrite_39:
(Start: 11 @24773 has 38 MA's), (15, 24803), (17, 24827), (18, 24854), (19, 24896),

Gene: Andrew_40 Start: 24666, Stop: 24896, Start Num: 11
Candidate Starts for Andrew_40:
(Start: 11 @24666 has 38 MA's), (15, 24696), (17, 24720), (18, 24747),

Gene: Antrice_42 Start: 26009, Stop: 26257, Start Num: 10
Candidate Starts for Antrice_42:
(Start: 10 @26009 has 2 MA's), (15, 26045), (17, 26069), (18, 26096), (19, 26138),

Gene: Atlantica_39 Start: 24774, Stop: 25004, Start Num: 11
Candidate Starts for Atlantica_39:
(Start: 11 @24774 has 38 MA's), (15, 24804), (17, 24828), (18, 24855),

Gene: Azaz_40 Start: 24846, Stop: 25076, Start Num: 11
Candidate Starts for Azaz_40:
(Start: 11 @24846 has 38 MA's), (15, 24876), (17, 24900), (18, 24927),

Gene: Babushka_36 Start: 24696, Stop: 24935, Start Num: 11
Candidate Starts for Babushka_36:
(Start: 11 @24696 has 38 MA's), (15, 24726), (17, 24750), (18, 24777),

Gene: Basilisk_37 Start: 25576, Stop: 25815, Start Num: 11
Candidate Starts for Basilisk_37:
(7, 25561), (Start: 9 @25567 has 10 MA's), (Start: 11 @25576 has 38 MA's), (12, 25588), (18, 25657),

Gene: Bedetta_44 Start: 25008, Stop: 25214, Start Num: 11
Candidate Starts for Bedetta_44:
(3, 24903), (Start: 11 @25008 has 38 MA's), (15, 25038), (17, 25062), (18, 25089),

Gene: Bibble12_43 Start: 24856, Stop: 25062, Start Num: 11
Candidate Starts for Bibble12_43:
(3, 24751), (Start: 11 @24856 has 38 MA's), (15, 24886), (17, 24910), (18, 24937),

Gene: Brynnie_36 Start: 25454, Stop: 25693, Start Num: 11
Candidate Starts for Brynnie_36:
(7, 25439), (Start: 9 @25445 has 10 MA's), (Start: 11 @25454 has 38 MA's), (12, 25466), (18, 25535),

Gene: Camara_39 Start: 24776, Stop: 25006, Start Num: 11
Candidate Starts for Camara_39:
(Start: 11 @24776 has 38 MA's), (15, 24806), (17, 24830), (18, 24857),

Gene: Chickaboom_38 Start: 25076, Stop: 25315, Start Num: 11
Candidate Starts for Chickaboom_38:
(1, 24824), (2, 24881), (5, 25022), (8, 25061), (Start: 11 @25076 has 38 MA's), (18, 25157),

Gene: Chicken_36 Start: 25407, Stop: 25655, Start Num: 9
Candidate Starts for Chicken_36:
(Start: 9 @25407 has 10 MA's), (12, 25428), (14, 25443), (18, 25497),

Gene: Colusalem_40 Start: 24838, Stop: 25044, Start Num: 11
Candidate Starts for Colusalem_40:
(3, 24733), (Start: 11 @24838 has 38 MA's), (15, 24868), (17, 24892), (18, 24919),

Gene: Coral_39 Start: 24709, Stop: 24915, Start Num: 11
Candidate Starts for Coral_39:
(3, 24604), (Start: 11 @24709 has 38 MA's), (15, 24739), (17, 24763), (18, 24790),

Gene: Cote_41 Start: 25186, Stop: 25392, Start Num: 11

Candidate Starts for Cote_41:
(3, 25081), (Start: 11 @25186 has 38 MA's), (15, 25216), (17, 25240), (18, 25267),

Gene: Cygnet_39 Start: 25607, Stop: 25855, Start Num: 10
Candidate Starts for Cygnet_39:
(Start: 10 @25607 has 2 MA's), (15, 25643), (17, 25667), (20, 25769),

Gene: Damocles_43 Start: 24997, Stop: 25203, Start Num: 11
Candidate Starts for Damocles_43:
(3, 24892), (Start: 11 @24997 has 38 MA's), (15, 25027), (17, 25051), (18, 25078),

Gene: DanHam62_39 Start: 24773, Stop: 25003, Start Num: 11
Candidate Starts for DanHam62_39:
(Start: 11 @24773 has 38 MA's), (15, 24803), (17, 24827), (18, 24854),

Gene: Daob_41 Start: 25194, Stop: 25400, Start Num: 11
Candidate Starts for Daob_41:
(Start: 11 @25194 has 38 MA's), (15, 25224), (17, 25248), (18, 25275),

Gene: Eesa_36 Start: 25937, Stop: 26194, Start Num: 9
Candidate Starts for Eesa_36:
(6, 25922), (Start: 9 @25937 has 10 MA's), (18, 26027),

Gene: Fingolfin_39 Start: 24776, Stop: 25006, Start Num: 11
Candidate Starts for Fingolfin_39:
(Start: 11 @24776 has 38 MA's), (15, 24806), (17, 24830), (18, 24857),

Gene: Galaxy_36 Start: 24864, Stop: 25070, Start Num: 11
Candidate Starts for Galaxy_36:
(Start: 11 @24864 has 38 MA's), (12, 24876), (18, 24945), (21, 25029),

Gene: Glotell_40 Start: 24932, Stop: 25162, Start Num: 11
Candidate Starts for Glotell_40:
(Start: 11 @24932 has 38 MA's), (15, 24962), (17, 24986), (18, 25013), (19, 25055),

Gene: GramZayde_41 Start: 25022, Stop: 25228, Start Num: 11
Candidate Starts for GramZayde_41:
(3, 24917), (Start: 11 @25022 has 38 MA's), (15, 25052), (17, 25076), (18, 25103),

Gene: Gravel_46 Start: 25916, Stop: 26167, Start Num: 9
Candidate Starts for Gravel_46:
(6, 25901), (Start: 9 @25916 has 10 MA's), (18, 26006),

Gene: HamCheese_39 Start: 24760, Stop: 24990, Start Num: 11
Candidate Starts for HamCheese_39:
(Start: 11 @24760 has 38 MA's), (15, 24790), (17, 24814), (18, 24841), (19, 24883),

Gene: HannahPhantana_40 Start: 24856, Stop: 25062, Start Num: 11
Candidate Starts for HannahPhantana_40:
(3, 24751), (Start: 11 @24856 has 38 MA's), (15, 24886), (17, 24910), (18, 24937),

Gene: Jamun_36 Start: 25116, Stop: 25355, Start Num: 11
Candidate Starts for Jamun_36:

(4, 25056), (Start: 9 @25107 has 10 MA's), (Start: 11 @25116 has 38 MA's), (12, 25128), (16, 25161), (18, 25197),

Gene: Jerole_40 Start: 24980, Stop: 25186, Start Num: 11
Candidate Starts for Jerole_40:
(3, 24875), (Start: 11 @24980 has 38 MA's), (15, 25010), (17, 25034), (18, 25061),

Gene: Juno112_38 Start: 24776, Stop: 25006, Start Num: 11
Candidate Starts for Juno112_38:
(Start: 11 @24776 has 38 MA's), (15, 24806), (17, 24830), (18, 24857),

Gene: KHumphrey_39 Start: 24775, Stop: 25005, Start Num: 11
Candidate Starts for KHumphrey_39:
(Start: 11 @24775 has 38 MA's), (15, 24805), (17, 24829), (18, 24856),

Gene: KendraB23_47 Start: 26103, Stop: 26360, Start Num: 9
Candidate Starts for KendraB23_47:
(6, 26088), (Start: 9 @26103 has 10 MA's), (18, 26193),

Gene: Kepler_41 Start: 25604, Stop: 25810, Start Num: 11
Candidate Starts for Kepler_41:
(3, 25499), (Start: 11 @25604 has 38 MA's), (15, 25634), (17, 25658), (18, 25685),

Gene: Kuleana_40 Start: 25028, Stop: 25261, Start Num: 11
Candidate Starts for Kuleana_40:
(Start: 11 @25028 has 38 MA's), (15, 25058), (18, 25109),

Gene: Laphuphu24k_38 Start: 24760, Stop: 24990, Start Num: 11
Candidate Starts for Laphuphu24k_38:
(Start: 11 @24760 has 38 MA's), (15, 24790), (17, 24814), (18, 24841), (19, 24883),

Gene: Leona_38 Start: 24847, Stop: 25077, Start Num: 11
Candidate Starts for Leona_38:
(Start: 11 @24847 has 38 MA's), (15, 24877), (17, 24901), (18, 24928),

Gene: LittleTokyo_39 Start: 24706, Stop: 24936, Start Num: 11
Candidate Starts for LittleTokyo_39:
(Start: 11 @24706 has 38 MA's), (15, 24736), (17, 24760), (18, 24787), (22, 24874), (24, 24922),

Gene: Lunar_41 Start: 25520, Stop: 25726, Start Num: 11
Candidate Starts for Lunar_41:
(3, 25415), (Start: 11 @25520 has 38 MA's), (15, 25550), (17, 25574), (18, 25601),

Gene: Melons_41 Start: 25334, Stop: 25540, Start Num: 11
Candidate Starts for Melons_41:
(3, 25229), (Start: 11 @25334 has 38 MA's), (15, 25364), (17, 25388), (18, 25415),

Gene: Niblet_36 Start: 25494, Stop: 25742, Start Num: 9
Candidate Starts for Niblet_36:
(Start: 9 @25494 has 10 MA's), (12, 25515), (14, 25530), (18, 25584), (23, 25710),

Gene: Oppalora_38 Start: 24774, Stop: 25004, Start Num: 11
Candidate Starts for Oppalora_38:

(Start: 11 @24774 has 38 MA's), (15, 24804), (17, 24828), (18, 24855),

Gene: Orcanus_37 Start: 25466, Stop: 25717, Start Num: 9
Candidate Starts for Orcanus_37:
(6, 25451), (Start: 9 @25466 has 10 MA's), (18, 25556),

Gene: OtsoOtso_40 Start: 24710, Stop: 24916, Start Num: 11
Candidate Starts for OtsoOtso_40:
(Start: 11 @24710 has 38 MA's), (15, 24740), (17, 24764), (18, 24791),

Gene: Pelletreau_46 Start: 25916, Stop: 26167, Start Num: 9
Candidate Starts for Pelletreau_46:
(6, 25901), (Start: 9 @25916 has 10 MA's), (18, 26006),

Gene: PhirstandPhine_48 Start: 25480, Stop: 25686, Start Num: 11
Candidate Starts for PhirstandPhine_48:
(3, 25375), (Start: 11 @25480 has 38 MA's), (15, 25510), (17, 25534), (18, 25561),

Gene: PhluffyCoco_39 Start: 24772, Stop: 25002, Start Num: 11
Candidate Starts for PhluffyCoco_39:
(Start: 11 @24772 has 38 MA's), (15, 24802), (17, 24826), (18, 24853), (19, 24895),

Gene: Pineda_42 Start: 25006, Stop: 25212, Start Num: 11
Candidate Starts for Pineda_42:
(3, 24901), (Start: 11 @25006 has 38 MA's), (15, 25036), (17, 25060), (18, 25087),

Gene: Polka_39 Start: 24710, Stop: 24916, Start Num: 11
Candidate Starts for Polka_39:
(Start: 11 @24710 has 38 MA's), (15, 24740), (17, 24764), (18, 24791),

Gene: Rattail_39 Start: 24858, Stop: 25088, Start Num: 11
Candidate Starts for Rattail_39:
(Start: 11 @24858 has 38 MA's), (15, 24888), (17, 24912), (18, 24939), (19, 24981),

Gene: RedFox_39 Start: 24771, Stop: 25001, Start Num: 11
Candidate Starts for RedFox_39:
(Start: 11 @24771 has 38 MA's), (15, 24801), (17, 24825), (18, 24852),

Gene: Renna12_38 Start: 24811, Stop: 25059, Start Num: 11
Candidate Starts for Renna12_38:
(Start: 11 @24811 has 38 MA's), (15, 24841), (17, 24865), (18, 24892),

Gene: Ruchi_36 Start: 25513, Stop: 25761, Start Num: 9
Candidate Starts for Ruchi_36:
(7, 25507), (Start: 9 @25513 has 10 MA's), (Start: 11 @25522 has 38 MA's), (12, 25534), (18, 25603),

Gene: Shen_36 Start: 24017, Stop: 24274, Start Num: 9
Candidate Starts for Shen_36:
(6, 24002), (Start: 9 @24017 has 10 MA's), (18, 24107),

Gene: StuartMinion_31 Start: 21830, Stop: 22069, Start Num: 11
Candidate Starts for StuartMinion_31:
(Start: 11 @21830 has 38 MA's), (15, 21860), (17, 21884), (18, 21911),

Gene: TaylorSipht_37 Start: 24886, Stop: 25134, Start Num: 9
Candidate Starts for TaylorSipht_37:
(Start: 9 @24886 has 10 MA's), (13, 24910), (14, 24922),

Gene: Toad24_39 Start: 26156, Stop: 26413, Start Num: 9
Candidate Starts for Toad24_39:
(6, 26141), (Start: 9 @26156 has 10 MA's), (18, 26246),

Gene: Vulpecula_36 Start: 25190, Stop: 25438, Start Num: 9
Candidate Starts for Vulpecula_36:
(7, 25184), (Start: 9 @25190 has 10 MA's), (Start: 11 @25199 has 38 MA's), (12, 25211), (18, 25280),

Gene: Westrich_45 Start: 25840, Stop: 26091, Start Num: 9
Candidate Starts for Westrich_45:
(6, 25825), (Start: 9 @25840 has 10 MA's), (18, 25930),

Gene: WileyE_38 Start: 25076, Stop: 25315, Start Num: 11
Candidate Starts for WileyE_38:
(1, 24824), (2, 24881), (5, 25022), (8, 25061), (Start: 11 @25076 has 38 MA's), (18, 25157),

Gene: Zhuangyuan_41 Start: 25541, Stop: 25783, Start Num: 11
Candidate Starts for Zhuangyuan_41:
(Start: 11 @25541 has 38 MA's), (18, 25622),

Gene: Zixiang_36 Start: 25521, Stop: 25778, Start Num: 9
Candidate Starts for Zixiang_36:
(6, 25506), (Start: 9 @25521 has 10 MA's), (18, 25611),