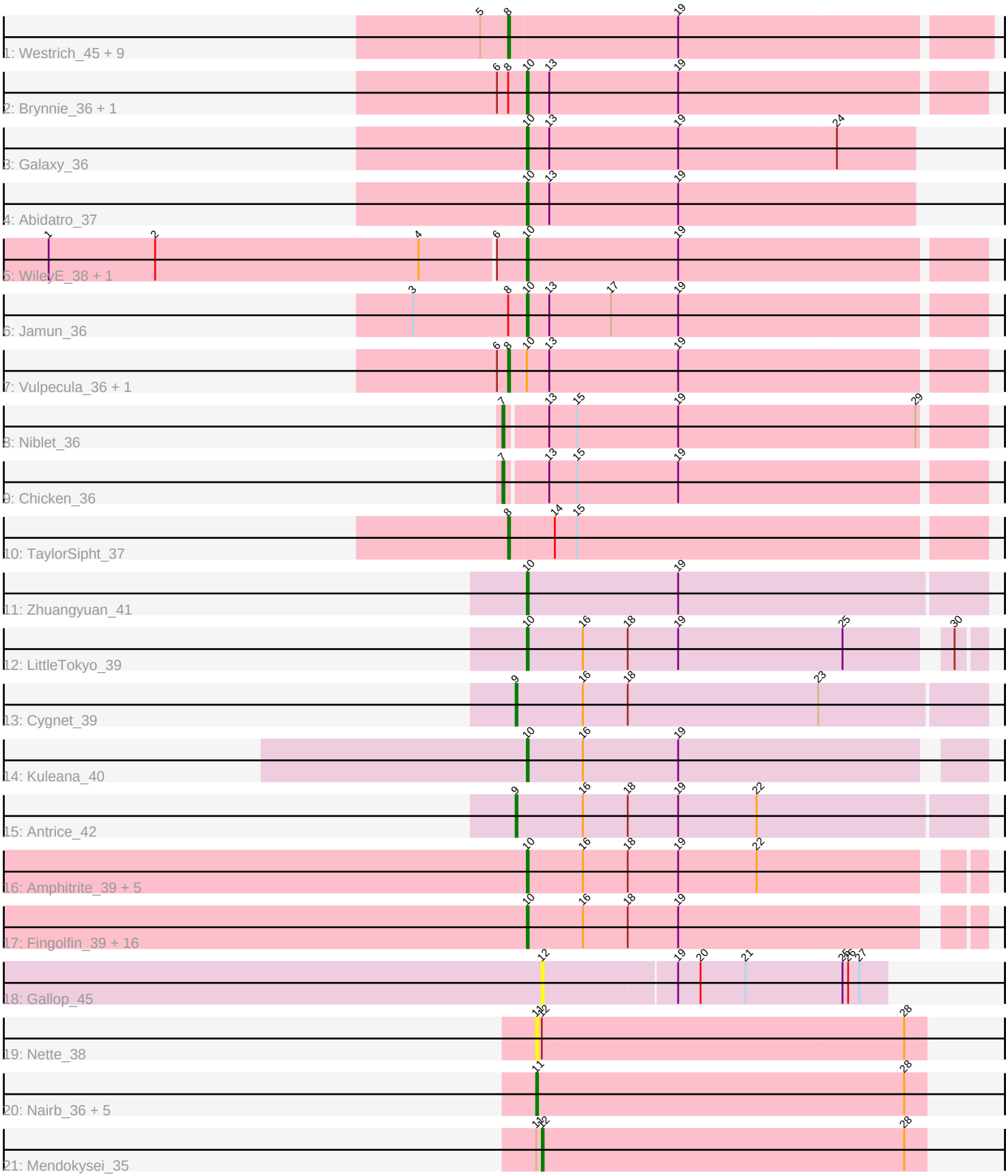
Pham 347651


1: Westrich_45 + 9
2: Brynnie_36 + 1
3: Galaxy_36
4: Abidatro_37
5: WileyE_38 + 1
6: Jamun_36
7: Vulpecula_36 + 1
8: Niblet_36
9: Chicken_36
10: TaylorSipht_37
11: Zhuangyuan_41
12: LittleTokyo_39
13: Cygnet_39
14: Kuleana_40
15: Antrice_42
16: Amphitrite_39 + 5
17: Fingolfin_39 + 16
18: Gallop_45
19: Nette_38
20: Nairb_36 + 5
21: Mendokysei_35

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 347651 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347651 has 59 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Westrich_45, Toad24_39, Gravel_46, Orcanus_37, Pelletreau_46, Shen_34, Eesa_36, Amanises_39, KendraB23_47, Zixiang_36
• Track 2 : Brynnie_36, Basilisk_37
• Track 3 : Galaxy_36
• Track 4 : Abidatro_37
• Track 5 : WileyE_38, Chickaboom_38
• Track 6 : Jamun_36
• Track 7 : Vulpecula_36, Ruchi_36
• Track 8 : Niblet_36
• Track 9 : Chicken_36
• Track 10 : TaylorSipht_37
• Track 11 : Zhuangyuan_41
• Track 12 : LittleTokyo_39
• Track 13 : Cygnet_39
• Track 14 : Kuleana_40
• Track 15 : Antrice_42
• Track 16 : Amphitrite_39, Glotell_40, PhluffyCoco_39, HamCheese_39, Laphuphu24k_37, Rattail_39
• Track 17 : Fingolfin_39, Renna12_38, AdoptaAdorbs_38, AmiCi24_38, Juno112_38, Atlantica_39, Andrew_40, Camara_39, KHumphrey_39, Leona_38, StuartMinion_31, Azaz_39, Babushka_36, RedFox_39, DanHam62_39, AlexMinion_39, Oppalora_38
• Track 18 : Gallop_45
• Track 19 : Nette_38
• Track 20 : Nairb_36, Bernal13_37, Whitty_37, ZenTime222_36, Ibrahim_37, RonRayGun_37
• Track 21 : Mendokysei_35

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 29 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Abidatro_37, AdoptaAdorbs_38, AlexMinion_39, AmiCi24_38, Amphitrite_39, Andrew_40, Atlantica_39, Azaz_39, Babushka_36, Basilisk_37, Brynnie_36, Camara_39, Chickaboom_38, DanHam62_39, Fingolfin_39, Galaxy_36, Glotell_40, HamCheese_39, Jamun_36, Juno112_38, KHumphrey_39, Kuleana_40, Laphuphu24k_37, Leona_38, LittleTokyo_39, Oppalora_38, PhluffyCoco_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, Bernal13_37, Chicken_36, Cygnet_39, Eesa_36, Gallop_45, Gravel_46, Ibrahim_37, KendraB23_47, Mendokysei_35, Nairb_36, Nette_38, Niblet_36, Orcanus_37, Pelletreau_46, RonRayGun_37, Shen_34, TaylorSipht_37, Toad24_39, Westrich_45, Whitty_37, ZenTime222_36, Zixiang_36,

Summary by start number:

Start 7:
• Found in 2 of 59 (3.4%) of genes in pham
• Manual Annotations of this start: 2 of 49
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chicken_36 (AS1), Niblet_36 (AS1),

Start 8:
• Found in 16 of 59 (27.1%) of genes in pham
• Manual Annotations of this start: 9 of 49
• Called 81.2% of time when present
• Phage (with cluster) where this start called: Amanises_39 (AS1), Eesa_36 (AS1), Gravel_46 (AS1), KendraB23_47 (AS1), Orcanus_37 (AS1), Pelletreau_46 (AS1), Ruchi_36 (AS1), Shen_34 (AS1), TaylorSipht_37 (AS1), Toad24_39 (AS1), Vulpecula_36 (AS1), Westrich_45 (AS1), Zixiang_36 (AS1),

Start 9:
• Found in 2 of 59 (3.4%) of genes in pham
• Manual Annotations of this start: 2 of 49
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antrice_42 (AS2), Cygnet_39 (AS2),

Start 10:
• Found in 35 of 59 (59.3%) of genes in pham
• Manual Annotations of this start: 29 of 49
• Called 94.3% of time when present
• Phage (with cluster) where this start called: Abidatro_37 (AS1), AdoptaAdorbs_38 (AS3), AlexMinion_39 (AS3), AmiCi24_38 (AS3), Amphitrite_39 (AS3), Andrew_40 (AS3), Atlantica_39 (AS3), Azaz_39 (AS3), Babushka_36 (AS3), Basilisk_37 (AS1), Brynnie_36 (AS1), Camara_39 (AS3), Chickaboom_38 (AS1), DanHam62_39 (AS3), Fingolfin_39 (AS3), Galaxy_36 (AS1), Glotell_40 (AS3), HamCheese_39 (AS3), Jamun_36 (AS1), Juno112_38 (AS3), KHumphrey_39 (AS3), Kuleana_40 (AS2), Laphuphu24k_37 (AS3), Leona_38 (AS3), LittleTokyo_39 (AS2), Oppalora_38 (AS3), PhluffyCoco_39 (AS3), Rattail_39 (AS3), RedFox_39 (AS3), Renna12_38 (AS3), StuartMinion_31 (AS3), WileyE_38 (AS1), Zhuangyuan_41 (AS2),

Start 11:
• Found in 8 of 59 (13.6%) of genes in pham
• Manual Annotations of this start: 6 of 49
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Bernal13_37 (T), Ibrahim_37 (T), Nairb_36 (T), Nette_38 (T), RonRayGun_37 (T), Whitty_37 (T), ZenTime222_36 (T),

Start 12:
• Found in 3 of 59 (5.1%) of genes in pham
• Manual Annotations of this start: 1 of 49
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Gallop_45 (ES), Mendokysei_35 (T),

Summary by clusters:

There are 5 clusters represented in this pham: AS3, AS2, AS1, T, ES,

Info for manual annotations of cluster AS1:
•Start number 7 was manually annotated 2 times for cluster AS1.
•Start number 8 was manually annotated 9 times for cluster AS1.
•Start number 10 was manually annotated 7 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 9 was manually annotated 2 times for cluster AS2.
•Start number 10 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 10 was manually annotated 19 times for cluster AS3.

Info for manual annotations of cluster T:
•Start number 11 was manually annotated 6 times for cluster T.
•Start number 12 was manually annotated 1 time for cluster T.

Gene Information:

Gene: Abidatro_37 Start: 25098, Stop: 25304, Start Num: 10
Candidate Starts for Abidatro_37:
(Start: 10 @25098 has 29 MA's), (13, 25110), (19, 25179),

Gene: AdoptaAdorbs_38 Start: 24774, Stop: 25004, Start Num: 10
Candidate Starts for AdoptaAdorbs_38:
(Start: 10 @24774 has 29 MA's), (16, 24804), (18, 24828), (19, 24855),

Gene: AlexMinion_39 Start: 24931, Stop: 25170, Start Num: 10
Candidate Starts for AlexMinion_39:
(Start: 10 @24931 has 29 MA's), (16, 24961), (18, 24985), (19, 25012),

Gene: Amanises_39 Start: 26103, Stop: 26360, Start Num: 8
Candidate Starts for Amanises_39:
(5, 26088), (Start: 8 @26103 has 9 MA's), (19, 26193),

Gene: AmiCi24_38 Start: 24772, Stop: 25002, Start Num: 10
Candidate Starts for AmiCi24_38:
(Start: 10 @24772 has 29 MA's), (16, 24802), (18, 24826), (19, 24853),

Gene: Amphitrite_39 Start: 24773, Stop: 25003, Start Num: 10
Candidate Starts for Amphitrite_39:
(Start: 10 @24773 has 29 MA's), (16, 24803), (18, 24827), (19, 24854), (22, 24896),

Gene: Andrew_40 Start: 24666, Stop: 24896, Start Num: 10
Candidate Starts for Andrew_40:
(Start: 10 @24666 has 29 MA's), (16, 24696), (18, 24720), (19, 24747),

Gene: Antrice_42 Start: 26009, Stop: 26257, Start Num: 9
Candidate Starts for Antrice_42:
(Start: 9 @26009 has 2 MA's), (16, 26045), (18, 26069), (19, 26096), (22, 26138),

Gene: Atlantica_39 Start: 24774, Stop: 25004, Start Num: 10
Candidate Starts for Atlantica_39:
(Start: 10 @24774 has 29 MA's), (16, 24804), (18, 24828), (19, 24855),

Gene: Azaz_39 Start: 24846, Stop: 25076, Start Num: 10
Candidate Starts for Azaz_39:
(Start: 10 @24846 has 29 MA's), (16, 24876), (18, 24900), (19, 24927),

Gene: Babushka_36 Start: 24696, Stop: 24935, Start Num: 10
Candidate Starts for Babushka_36:
(Start: 10 @24696 has 29 MA's), (16, 24726), (18, 24750), (19, 24777),

Gene: Basilisk_37 Start: 25576, Stop: 25815, Start Num: 10
Candidate Starts for Basilisk_37:
(6, 25561), (Start: 8 @25567 has 9 MA's), (Start: 10 @25576 has 29 MA's), (13, 25588), (19, 25657),

Gene: Bernal13_37 Start: 30311, Stop: 30517, Start Num: 11
Candidate Starts for Bernal13_37:
(Start: 11 @30311 has 6 MA's), (28, 30506),

Gene: Brynnie_36 Start: 25454, Stop: 25693, Start Num: 10
Candidate Starts for Brynnie_36:
(6, 25439), (Start: 8 @25445 has 9 MA's), (Start: 10 @25454 has 29 MA's), (13, 25466), (19, 25535),

Gene: Camara_39 Start: 24776, Stop: 25006, Start Num: 10
Candidate Starts for Camara_39:
(Start: 10 @24776 has 29 MA's), (16, 24806), (18, 24830), (19, 24857),

Gene: Chickaboom_38 Start: 25076, Stop: 25315, Start Num: 10
Candidate Starts for Chickaboom_38:
(1, 24824), (2, 24881), (4, 25022), (6, 25061), (Start: 10 @25076 has 29 MA's), (19, 25157),

Gene: Chicken_36 Start: 25407, Stop: 25655, Start Num: 7
Candidate Starts for Chicken_36:
(Start: 7 @25407 has 2 MA's), (13, 25428), (15, 25443), (19, 25497),

Gene: Cygnet_39 Start: 25607, Stop: 25855, Start Num: 9
Candidate Starts for Cygnet_39:
(Start: 9 @25607 has 2 MA's), (16, 25643), (18, 25667), (23, 25769),

Gene: DanHam62_39 Start: 24773, Stop: 25003, Start Num: 10
Candidate Starts for DanHam62_39:
(Start: 10 @24773 has 29 MA's), (16, 24803), (18, 24827), (19, 24854),

Gene: Eesa_36 Start: 25937, Stop: 26194, Start Num: 8
Candidate Starts for Eesa_36:
(5, 25922), (Start: 8 @25937 has 9 MA's), (19, 26027),

Gene: Fingolfin_39 Start: 24776, Stop: 25006, Start Num: 10
Candidate Starts for Fingolfin_39:
(Start: 10 @24776 has 29 MA's), (16, 24806), (18, 24830), (19, 24857),

Gene: Galaxy_36 Start: 24864, Stop: 25070, Start Num: 10
Candidate Starts for Galaxy_36:
(Start: 10 @24864 has 29 MA's), (13, 24876), (19, 24945), (24, 25029),

Gene: Gallop_45 Start: 33289, Stop: 33468, Start Num: 12
Candidate Starts for Gallop_45:
(Start: 12 @33289 has 1 MA's), (19, 33358), (20, 33370), (21, 33394), (25, 33445), (26, 33448), (27, 33454),

Gene: Glotell_40 Start: 24932, Stop: 25162, Start Num: 10
Candidate Starts for Glotell_40:
(Start: 10 @24932 has 29 MA's), (16, 24962), (18, 24986), (19, 25013), (22, 25055),

Gene: Gravel_46 Start: 25916, Stop: 26167, Start Num: 8
Candidate Starts for Gravel_46:
(5, 25901), (Start: 8 @25916 has 9 MA's), (19, 26006),

Gene: HamCheese_39 Start: 24760, Stop: 24990, Start Num: 10
Candidate Starts for HamCheese_39:
(Start: 10 @24760 has 29 MA's), (16, 24790), (18, 24814), (19, 24841), (22, 24883),

Gene: Ibrahim_37 Start: 30757, Stop: 30963, Start Num: 11
Candidate Starts for Ibrahim_37:
(Start: 11 @30757 has 6 MA's), (28, 30952),

Gene: Jamun_36 Start: 25116, Stop: 25355, Start Num: 10
Candidate Starts for Jamun_36:
(3, 25056), (Start: 8 @25107 has 9 MA's), (Start: 10 @25116 has 29 MA's), (13, 25128), (17, 25161), (19, 25197),

Gene: Juno112_38 Start: 24776, Stop: 25006, Start Num: 10
Candidate Starts for Juno112_38:
(Start: 10 @24776 has 29 MA's), (16, 24806), (18, 24830), (19, 24857),

Gene: KHumphrey_39 Start: 24775, Stop: 25005, Start Num: 10
Candidate Starts for KHumphrey_39:
(Start: 10 @24775 has 29 MA's), (16, 24805), (18, 24829), (19, 24856),

Gene: KendraB23_47 Start: 26103, Stop: 26360, Start Num: 8
Candidate Starts for KendraB23_47:
(5, 26088), (Start: 8 @26103 has 9 MA's), (19, 26193),

Gene: Kuleana_40 Start: 25028, Stop: 25261, Start Num: 10
Candidate Starts for Kuleana_40:
(Start: 10 @25028 has 29 MA's), (16, 25058), (19, 25109),

Gene: Laphuphu24k_37 Start: 24760, Stop: 24990, Start Num: 10
Candidate Starts for Laphuphu24k_37:
(Start: 10 @24760 has 29 MA's), (16, 24790), (18, 24814), (19, 24841), (22, 24883),

Gene: Leona_38 Start: 24847, Stop: 25077, Start Num: 10
Candidate Starts for Leona_38:
(Start: 10 @24847 has 29 MA's), (16, 24877), (18, 24901), (19, 24928),

Gene: LittleTokyo_39 Start: 24706, Stop: 24936, Start Num: 10
Candidate Starts for LittleTokyo_39:
(Start: 10 @24706 has 29 MA's), (16, 24736), (18, 24760), (19, 24787), (25, 24874), (30, 24922),

Gene: Mendokysei_35 Start: 29852, Stop: 30055, Start Num: 12
Candidate Starts for Mendokysei_35:
(Start: 11 @29849 has 6 MA's), (Start: 12 @29852 has 1 MA's), (28, 30044),

Gene: Nairb_36 Start: 30311, Stop: 30517, Start Num: 11
Candidate Starts for Nairb_36:
(Start: 11 @30311 has 6 MA's), (28, 30506),

Gene: Nette_38 Start: 29858, Stop: 30064, Start Num: 11
Candidate Starts for Nette_38:
(Start: 11 @29858 has 6 MA's), (Start: 12 @29861 has 1 MA's), (28, 30053),

Gene: Niblet_36 Start: 25494, Stop: 25742, Start Num: 7
Candidate Starts for Niblet_36:
(Start: 7 @25494 has 2 MA's), (13, 25515), (15, 25530), (19, 25584), (29, 25710),

Gene: Oppalora_38 Start: 24774, Stop: 25004, Start Num: 10
Candidate Starts for Oppalora_38:
(Start: 10 @24774 has 29 MA's), (16, 24804), (18, 24828), (19, 24855),

Gene: Orcanus_37 Start: 25466, Stop: 25717, Start Num: 8
Candidate Starts for Orcanus_37:
(5, 25451), (Start: 8 @25466 has 9 MA's), (19, 25556),

Gene: Pelletreau_46 Start: 25916, Stop: 26167, Start Num: 8
Candidate Starts for Pelletreau_46:
(5, 25901), (Start: 8 @25916 has 9 MA's), (19, 26006),

Gene: PhluffyCoco_39 Start: 24772, Stop: 25002, Start Num: 10
Candidate Starts for PhluffyCoco_39:
(Start: 10 @24772 has 29 MA's), (16, 24802), (18, 24826), (19, 24853), (22, 24895),

Gene: Rattail_39 Start: 24858, Stop: 25088, Start Num: 10
Candidate Starts for Rattail_39:
(Start: 10 @24858 has 29 MA's), (16, 24888), (18, 24912), (19, 24939), (22, 24981),

Gene: RedFox_39 Start: 24771, Stop: 25001, Start Num: 10
Candidate Starts for RedFox_39:
(Start: 10 @24771 has 29 MA's), (16, 24801), (18, 24825), (19, 24852),

Gene: Renna12_38 Start: 24811, Stop: 25059, Start Num: 10
Candidate Starts for Renna12_38:
(Start: 10 @24811 has 29 MA's), (16, 24841), (18, 24865), (19, 24892),

Gene: RonRayGun_37 Start: 30757, Stop: 30963, Start Num: 11
Candidate Starts for RonRayGun_37:
(Start: 11 @30757 has 6 MA's), (28, 30952),

Gene: Ruchi_36 Start: 25513, Stop: 25761, Start Num: 8
Candidate Starts for Ruchi_36:
(6, 25507), (Start: 8 @25513 has 9 MA's), (Start: 10 @25522 has 29 MA's), (13, 25534), (19, 25603),

Gene: Shen_34 Start: 24017, Stop: 24274, Start Num: 8
Candidate Starts for Shen_34:
(5, 24002), (Start: 8 @24017 has 9 MA's), (19, 24107),

Gene: StuartMinion_31 Start: 21830, Stop: 22069, Start Num: 10
Candidate Starts for StuartMinion_31:
(Start: 10 @21830 has 29 MA's), (16, 21860), (18, 21884), (19, 21911),

Gene: TaylorSipht_37 Start: 24886, Stop: 25134, Start Num: 8
Candidate Starts for TaylorSipht_37:
(Start: 8 @24886 has 9 MA's), (14, 24910), (15, 24922),

Gene: Toad24_39 Start: 26156, Stop: 26413, Start Num: 8
Candidate Starts for Toad24_39:
(5, 26141), (Start: 8 @26156 has 9 MA's), (19, 26246),

Gene: Vulpecula_36 Start: 25190, Stop: 25438, Start Num: 8
Candidate Starts for Vulpecula_36:
(6, 25184), (Start: 8 @25190 has 9 MA's), (Start: 10 @25199 has 29 MA's), (13, 25211), (19, 25280),

Gene: Westrich_45 Start: 25840, Stop: 26091, Start Num: 8
Candidate Starts for Westrich_45:
(5, 25825), (Start: 8 @25840 has 9 MA's), (19, 25930),

Gene: Whitty_37 Start: 30311, Stop: 30517, Start Num: 11
Candidate Starts for Whitty_37:
(Start: 11 @30311 has 6 MA's), (28, 30506),

Gene: WileyE_38 Start: 25076, Stop: 25315, Start Num: 10
Candidate Starts for WileyE_38:
(1, 24824), (2, 24881), (4, 25022), (6, 25061), (Start: 10 @25076 has 29 MA's), (19, 25157),

Gene: ZenTime222_36 Start: 30311, Stop: 30517, Start Num: 11

Candidate Starts for ZenTime222_36:
(Start: 11 @30311 has 6 MA's), (28, 30506),

Gene: Zhuangyuan_41 Start: 25541, Stop: 25783, Start Num: 10
Candidate Starts for Zhuangyuan_41:
(Start: 10 @25541 has 29 MA's), (19, 25622),

Gene: Zixiang_36 Start: 25521, Stop: 25778, Start Num: 8
Candidate Starts for Zixiang_36:
(5, 25506), (Start: 8 @25521 has 9 MA's), (19, 25611),