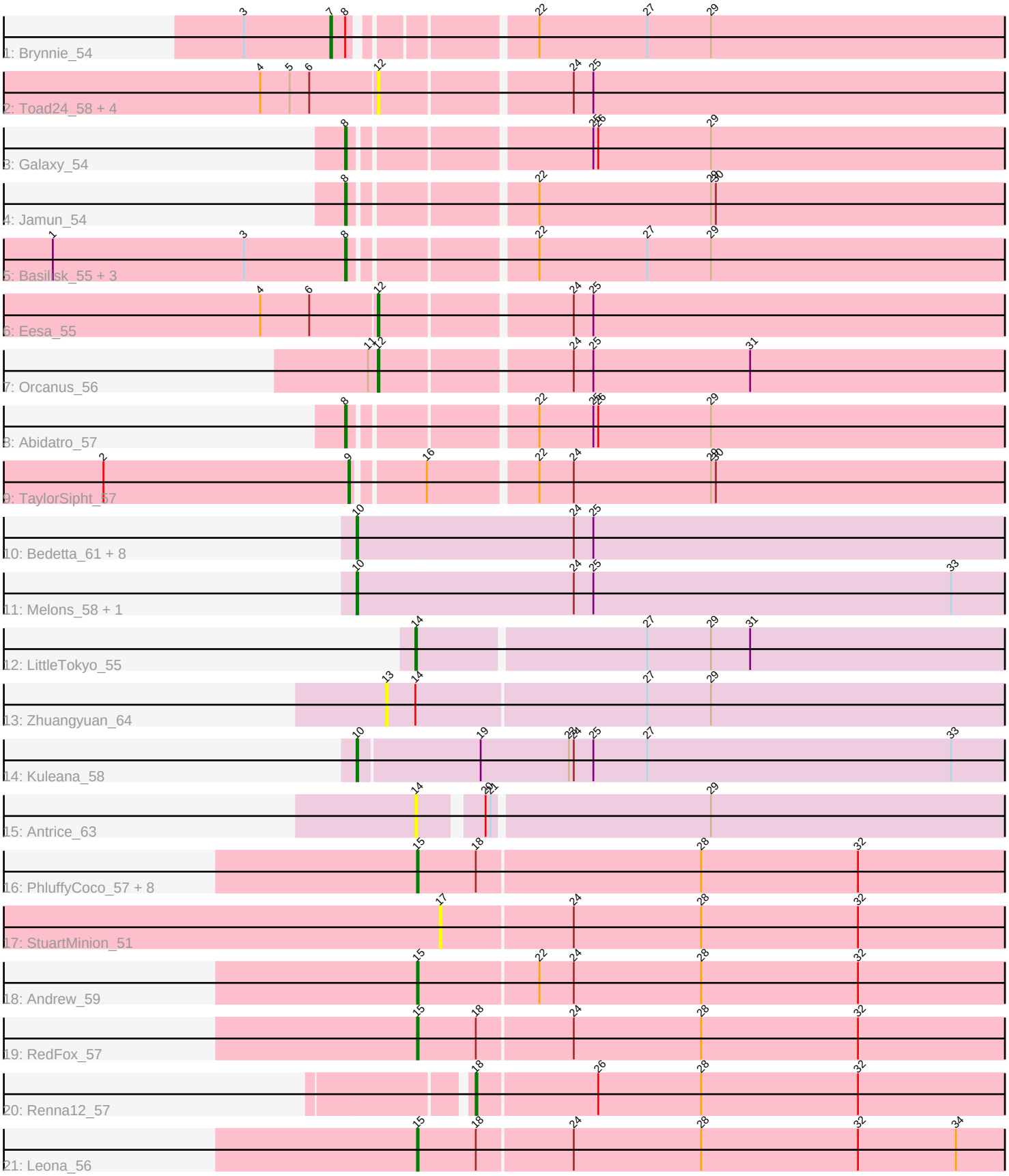
Pham 198206


1: Brynnie_54
2: Toad24_58 + 4
3: Galaxy_54
4: Jamun_54
5: Basilisk_55 + 3
6: Eesa_55
7: Orcanus_56
8: Abidatro_57
9: TaylorSipht_57
10: Bedetta_61 + 8
11: Melons_58 + 1
12: LittleTokyo_55
13: Zhuangyuan_64
14: Kuleana_58
15: Antrice_63
16: PhluffyCoco_57 + 8
17: StuartMinion_51
18: Andrew_59
19: RedFox_57
20: Renna12_57
21: Leona_56

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 198206 Report

This analysis was run 01/18/25 on database version 583.

Pham number 198206 has 45 members, 16 are drafts.

Phages represented in each track:
• Track 1 : Brynnie_54
• Track 2 : Toad24_58, Gravel_67, Westrich_66, Pelletreau_67, KendraB23_66
• Track 3 : Galaxy_54
• Track 4 : Jamun_54
• Track 5 : Basilisk_55, Vulpecula_54, Chickaboom_56, Ruchi_54
• Track 6 : Eesa_55
• Track 7 : Orcanus_56
• Track 8 : Abidatro_57
• Track 9 : TaylorSipht_57
• Track 10 : Bedetta_61, Kepler_58, Amelia_56, Polka_56, Cote_59, Coral_56, HannahPhantana_58, Bibble12_60, Lunar_58
• Track 11 : Melons_58, Daob_58
• Track 12 : LittleTokyo_55
• Track 13 : Zhuangyuan_64
• Track 14 : Kuleana_58
• Track 15 : Antrice_63
• Track 16 : PhluffyCoco_57, Juno112_56, AmiCi24_56, Camara_57, HamCheese_56, Rattail_57, Atlantica_57, KHumphrey_57, Glotell_60
• Track 17 : StuartMinion_51
• Track 18 : Andrew_59
• Track 19 : RedFox_57
• Track 20 : Renna12_57
• Track 21 : Leona_56

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

Genes that call this "Most Annotated" start:
• Amelia_56, Bedetta_61, Bibble12_60, Coral_56, Cote_59, Daob_58, HannahPhantana_58, Kepler_58, Kuleana_58, Lunar_58, Melons_58, Polka_56,

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

•

Genes that do not have the "Most Annotated" start:
• Abidatro_57, AmiCi24_56, Andrew_59, Antrice_63, Atlantica_57, Basilisk_55, Brynnie_54, Camara_57, Chickaboom_56, Eesa_55, Galaxy_54, Glotell_60, Gravel_67, HamCheese_56, Jamun_54, Juno112_56, KHumphrey_57, KendraB23_66, Leona_56, LittleTokyo_55, Orcanus_56, Pelletreau_67, PhluffyCoco_57, Rattail_57, RedFox_57, Renna12_57, Ruchi_54, StuartMinion_51, TaylorSipht_57, Toad24_58, Vulpecula_54, Westrich_66, Zhuangyuan_64,

Summary by start number:

Start 7:
• Found in 1 of 45 (2.2%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brynnie_54 (AS1),

Start 8:
• Found in 8 of 45 (17.8%) of genes in pham
• Manual Annotations of this start: 7 of 29
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Abidatro_57 (AS1), Basilisk_55 (AS1), Chickaboom_56 (AS1), Galaxy_54 (AS1), Jamun_54 (AS1), Ruchi_54 (AS1), Vulpecula_54 (AS1),

Start 9:
• Found in 1 of 45 (2.2%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TaylorSipht_57 (AS1),

Start 10:
• Found in 12 of 45 (26.7%) of genes in pham
• Manual Annotations of this start: 10 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelia_56 (AS2), Bedetta_61 (AS2), Bibble12_60 (AS2), Coral_56 (AS2), Cote_59 (AS2), Daob_58 (AS2), HannahPhantana_58 (AS2), Kepler_58 (AS2), Kuleana_58 (AS2), Lunar_58 (AS2), Melons_58 (AS2), Polka_56 (AS2),

Start 12:
• Found in 7 of 45 (15.6%) of genes in pham
• Manual Annotations of this start: 2 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Eesa_55 (AS1), Gravel_67 (AS1), KendraB23_66 (AS1), Orcanus_56 (AS1), Pelletreau_67 (AS1), Toad24_58 (AS1), Westrich_66 (AS1),

Start 13:
• Found in 1 of 45 (2.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Zhuangyuan_64 (AS2),

Start 14:
• Found in 3 of 45 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Antrice_63 (AS2), LittleTokyo_55 (AS2),

Start 15:
• Found in 12 of 45 (26.7%) of genes in pham
• Manual Annotations of this start: 6 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AmiCi24_56 (AS3), Andrew_59 (AS3), Atlantica_57 (AS3), Camara_57 (AS3), Glotell_60 (AS3), HamCheese_56 (AS3), Juno112_56 (AS3), KHumphrey_57 (AS3), Leona_56 (AS3), PhluffyCoco_57 (AS3), Rattail_57 (AS3), RedFox_57 (AS3),

Start 17:
• Found in 1 of 45 (2.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: StuartMinion_51 (AS3),

Start 18:
• Found in 12 of 45 (26.7%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Renna12_57 (AS3),

Summary by clusters:

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

Info for manual annotations of cluster AS1:
•Start number 7 was manually annotated 1 time for cluster AS1.
•Start number 8 was manually annotated 7 times for cluster AS1.
•Start number 9 was manually annotated 1 time for cluster AS1.
•Start number 12 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 10 was manually annotated 10 times for cluster AS2.
•Start number 14 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 15 was manually annotated 6 times for cluster AS3.
•Start number 18 was manually annotated 1 time for cluster AS3.

Gene Information:

Gene: Abidatro_57 Start: 35985, Stop: 36374, Start Num: 8
Candidate Starts for Abidatro_57:

(Start: 8 @35985 has 7 MA's), (22, 36087), (25, 36120), (26, 36123), (29, 36192),

Gene: Amelia_56 Start: 33981, Stop: 34379, Start Num: 10
Candidate Starts for Amelia_56:
(Start: 10 @33981 has 10 MA's), (24, 34113), (25, 34125),

Gene: AmiCi24_56 Start: 34902, Stop: 35261, Start Num: 15
Candidate Starts for AmiCi24_56:
(Start: 15 @34902 has 6 MA's), (Start: 18 @34938 has 1 MA's), (28, 35073), (32, 35169),

Gene: Andrew_59 Start: 35202, Stop: 35561, Start Num: 15
Candidate Starts for Andrew_59:
(Start: 15 @35202 has 6 MA's), (22, 35274), (24, 35295), (28, 35373), (32, 35469),

Gene: Antrice_63 Start: 35044, Stop: 35391, Start Num: 14
Candidate Starts for Antrice_63:
(Start: 14 @35044 has 1 MA's), (20, 35077), (21, 35080), (29, 35209),

Gene: Atlantica_57 Start: 34904, Stop: 35263, Start Num: 15
Candidate Starts for Atlantica_57:
(Start: 15 @34904 has 6 MA's), (Start: 18 @34940 has 1 MA's), (28, 35075), (32, 35171),

Gene: Basilisk_55 Start: 35212, Stop: 35601, Start Num: 8
Candidate Starts for Basilisk_55:
(1, 35035), (3, 35152), (Start: 8 @35212 has 7 MA's), (22, 35314), (27, 35380), (29, 35419),

Gene: Bedetta_61 Start: 34141, Stop: 34539, Start Num: 10
Candidate Starts for Bedetta_61:
(Start: 10 @34141 has 10 MA's), (24, 34273), (25, 34285),

Gene: Bibble12_60 Start: 33976, Stop: 34374, Start Num: 10
Candidate Starts for Bibble12_60:
(Start: 10 @33976 has 10 MA's), (24, 34108), (25, 34120),

Gene: Brynnie_54 Start: 35104, Stop: 35496, Start Num: 7
Candidate Starts for Brynnie_54:
(3, 35053), (Start: 7 @35104 has 1 MA's), (Start: 8 @35113 has 7 MA's), (22, 35209), (27, 35275), (29, 35314),

Gene: Camara_57 Start: 34795, Stop: 35154, Start Num: 15
Candidate Starts for Camara_57:
(Start: 15 @34795 has 6 MA's), (Start: 18 @34831 has 1 MA's), (28, 34966), (32, 35062),

Gene: Chickaboom_56 Start: 35548, Stop: 35937, Start Num: 8
Candidate Starts for Chickaboom_56:
(1, 35371), (3, 35488), (Start: 8 @35548 has 7 MA's), (22, 35650), (27, 35716), (29, 35755),

Gene: Coral_56 Start: 33886, Stop: 34284, Start Num: 10
Candidate Starts for Coral_56:
(Start: 10 @33886 has 10 MA's), (24, 34018), (25, 34030),

Gene: Cote_59 Start: 34319, Stop: 34717, Start Num: 10
Candidate Starts for Cote_59:

(Start: 10 @34319 has 10 MA's), (24, 34451), (25, 34463),

Gene: Daob_58 Start: 34330, Stop: 34728, Start Num: 10
Candidate Starts for Daob_58:
(Start: 10 @34330 has 10 MA's), (24, 34462), (25, 34474), (33, 34693),

Gene: Eesa_55 Start: 36339, Stop: 36716, Start Num: 12
Candidate Starts for Eesa_55:
(4, 36270), (6, 36300), (Start: 12 @36339 has 2 MA's), (24, 36450), (25, 36462),

Gene: Galaxy_54 Start: 34402, Stop: 34791, Start Num: 8
Candidate Starts for Galaxy_54:
(Start: 8 @34402 has 7 MA's), (25, 34537), (26, 34540), (29, 34609),

Gene: Glotell_60 Start: 34950, Stop: 35309, Start Num: 15
Candidate Starts for Glotell_60:
(Start: 15 @34950 has 6 MA's), (Start: 18 @34986 has 1 MA's), (28, 35121), (32, 35217),

Gene: Gravel_67 Start: 36912, Stop: 37289, Start Num: 12
Candidate Starts for Gravel_67:
(4, 36843), (5, 36861), (6, 36873), (Start: 12 @36912 has 2 MA's), (24, 37023), (25, 37035),

Gene: HamCheese_56 Start: 34890, Stop: 35249, Start Num: 15
Candidate Starts for HamCheese_56:
(Start: 15 @34890 has 6 MA's), (Start: 18 @34926 has 1 MA's), (28, 35061), (32, 35157),

Gene: HannahPhantana_58 Start: 33976, Stop: 34374, Start Num: 10
Candidate Starts for HannahPhantana_58:
(Start: 10 @33976 has 10 MA's), (24, 34108), (25, 34120),

Gene: Jamun_54 Start: 35634, Stop: 36023, Start Num: 8
Candidate Starts for Jamun_54:
(Start: 8 @35634 has 7 MA's), (22, 35736), (29, 35841), (30, 35844),

Gene: Juno112_56 Start: 34906, Stop: 35265, Start Num: 15
Candidate Starts for Juno112_56:
(Start: 15 @34906 has 6 MA's), (Start: 18 @34942 has 1 MA's), (28, 35077), (32, 35173),

Gene: KHumphrey_57 Start: 34794, Stop: 35153, Start Num: 15
Candidate Starts for KHumphrey_57:
(Start: 15 @34794 has 6 MA's), (Start: 18 @34830 has 1 MA's), (28, 34965), (32, 35061),

Gene: KendraB23_66 Start: 36600, Stop: 36977, Start Num: 12
Candidate Starts for KendraB23_66:
(4, 36531), (5, 36549), (6, 36561), (Start: 12 @36600 has 2 MA's), (24, 36711), (25, 36723),

Gene: Kepler_58 Start: 34097, Stop: 34495, Start Num: 10
Candidate Starts for Kepler_58:
(Start: 10 @34097 has 10 MA's), (24, 34229), (25, 34241),

Gene: Kuleana_58 Start: 34415, Stop: 34810, Start Num: 10
Candidate Starts for Kuleana_58:

(Start: 10 @34415 has 10 MA's), (19, 34487), (23, 34541), (24, 34544), (25, 34556), (27, 34589), (33, 34775),

Gene: Leona_56 Start: 34989, Stop: 35348, Start Num: 15
Candidate Starts for Leona_56:
(Start: 15 @34989 has 6 MA's), (Start: 18 @35025 has 1 MA's), (24, 35082), (28, 35160), (32, 35256), (34, 35316),

Gene: LittleTokyo_55 Start: 33618, Stop: 33974, Start Num: 14
Candidate Starts for LittleTokyo_55:
(Start: 14 @33618 has 1 MA's), (27, 33753), (29, 33792), (31, 33816),

Gene: Lunar_58 Start: 34009, Stop: 34407, Start Num: 10
Candidate Starts for Lunar_58:
(Start: 10 @34009 has 10 MA's), (24, 34141), (25, 34153),

Gene: Melons_58 Start: 33823, Stop: 34221, Start Num: 10
Candidate Starts for Melons_58:
(Start: 10 @33823 has 10 MA's), (24, 33955), (25, 33967), (33, 34186),

Gene: Orcanus_56 Start: 36030, Stop: 36407, Start Num: 12
Candidate Starts for Orcanus_56:
(11, 36024), (Start: 12 @36030 has 2 MA's), (24, 36141), (25, 36153), (31, 36249),

Gene: Pelletreau_67 Start: 36912, Stop: 37289, Start Num: 12
Candidate Starts for Pelletreau_67:
(4, 36843), (5, 36861), (6, 36873), (Start: 12 @36912 has 2 MA's), (24, 37023), (25, 37035),

Gene: PhluffyCoco_57 Start: 35005, Stop: 35364, Start Num: 15
Candidate Starts for PhluffyCoco_57:
(Start: 15 @35005 has 6 MA's), (Start: 18 @35041 has 1 MA's), (28, 35176), (32, 35272),

Gene: Polka_56 Start: 33831, Stop: 34229, Start Num: 10
Candidate Starts for Polka_56:
(Start: 10 @33831 has 10 MA's), (24, 33963), (25, 33975),

Gene: Rattail_57 Start: 35090, Stop: 35449, Start Num: 15
Candidate Starts for Rattail_57:
(Start: 15 @35090 has 6 MA's), (Start: 18 @35126 has 1 MA's), (28, 35261), (32, 35357),

Gene: RedFox_57 Start: 35003, Stop: 35362, Start Num: 15
Candidate Starts for RedFox_57:
(Start: 15 @35003 has 6 MA's), (Start: 18 @35039 has 1 MA's), (24, 35096), (28, 35174), (32, 35270),

Gene: Renna12_57 Start: 35155, Stop: 35478, Start Num: 18
Candidate Starts for Renna12_57:
(Start: 18 @35155 has 1 MA's), (26, 35227), (28, 35290), (32, 35386),

Gene: Ruchi_54 Start: 35134, Stop: 35523, Start Num: 8
Candidate Starts for Ruchi_54:
(1, 34957), (3, 35074), (Start: 8 @35134 has 7 MA's), (22, 35236), (27, 35302), (29, 35341),

Gene: StuartMinion_51 Start: 31723, Stop: 32067, Start Num: 17

Candidate Starts for StuartMinion_51:
(17, 31723), (24, 31801), (28, 31879), (32, 31975),

Gene: TaylorSipht_57 Start: 35813, Stop: 36202, Start Num: 9
Candidate Starts for TaylorSipht_57:
(2, 35663), (Start: 9 @35813 has 1 MA's), (16, 35852), (22, 35915), (24, 35936), (29, 36020), (30, 36023),

Gene: Toad24_58 Start: 36652, Stop: 37029, Start Num: 12
Candidate Starts for Toad24_58:
(4, 36583), (5, 36601), (6, 36613), (Start: 12 @36652 has 2 MA's), (24, 36763), (25, 36775),

Gene: Vulpecula_54 Start: 34794, Stop: 35183, Start Num: 8
Candidate Starts for Vulpecula_54:
(1, 34617), (3, 34734), (Start: 8 @34794 has 7 MA's), (22, 34896), (27, 34962), (29, 35001),

Gene: Westrich_66 Start: 36836, Stop: 37213, Start Num: 12
Candidate Starts for Westrich_66:
(4, 36767), (5, 36785), (6, 36797), (Start: 12 @36836 has 2 MA's), (24, 36947), (25, 36959),

Gene: Zhuangyuan_64 Start: 35680, Stop: 36057, Start Num: 13
Candidate Starts for Zhuangyuan_64:
(13, 35680), (Start: 14 @35698 has 1 MA's), (27, 35836), (29, 35875),