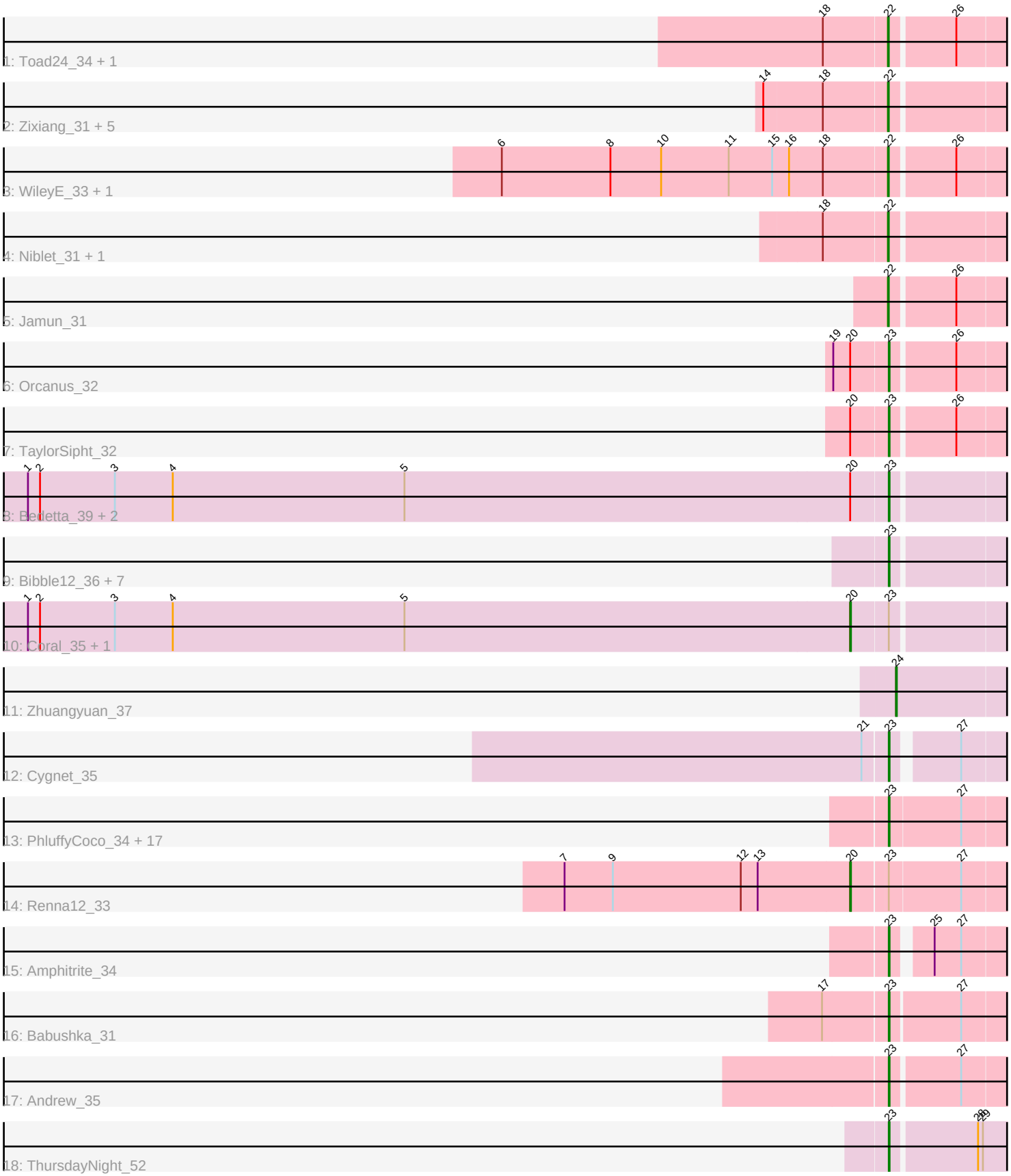
Pham 327126


1: Toad24_34 + 1
2: Zixiang_31 + 5
3: WileyE_33 + 1
4: Niblet_31 + 1
5: Jamun_31
6: Orcanus_32
7: TaylorSipht_32
8: Bedetta_39 + 2
9: Bibble12_36 + 7
10: Coral_35 + 1
11: Zhuangyuan_37
12: Cygnet_35
13: PhluffyCoco_34 + 17
14: Renna12_33
15: Amphitrite_34
16: Babushka_31
17: Andrew_35
18: ThursdayNight_52

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 327126 Report

This analysis was run 09/05/26 on database version 662.

Pham number 327126 has 53 members, 12 are drafts.

Phages represented in each track:
• Track 1 : Toad24_34, Eesa_31
• Track 2 : Zixiang_31, KendraB23_39, Westrich_37, Gravel_38, Amanises_34, Pelletreau_38
• Track 3 : WileyE_33, Chickaboom_33
• Track 4 : Niblet_31, Chicken_31
• Track 5 : Jamun_31
• Track 6 : Orcanus_32
• Track 7 : TaylorSipht_32
• Track 8 : Bedetta_39, Pineda_37, GramZayde_36
• Track 9 : Bibble12_36, Jerole_36, Polka_35, HannahPhantana_36, Colusalem_36, Damocles_39, Daob_37, OtsoOtso_36
• Track 10 : Coral_35, Cote_37
• Track 11 : Zhuangyuan_37
• Track 12 : Cygnet_35
• Track 13 : PhluffyCoco_34, Fingolfin_34, AmiCi24_33, AdoptaAdorbs_33, Oppalora_33, Atlantica_34, Leona_33, Juno112_33, RedFox_34, HamCheese_34, KHumphrey_34, Camara_34, Laphuphu24k_32, Glotell_35, Rattail_34, DanHam62_34, Azaz_34, AlexMinion_34
• Track 14 : Renna12_33
• Track 15 : Amphitrite_34
• Track 16 : Babushka_31
• Track 17 : Andrew_35
• Track 18 : ThursdayNight_52

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

The start number called the most often in the published annotations is 23, it was called in 28 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AdoptaAdorbs_33, AlexMinion_34, AmiCi24_33, Amphitrite_34, Andrew_35, Atlantica_34, Azaz_34, Babushka_31, Bedetta_39, Bibble12_36, Camara_34, Colusalem_36, Cygnet_35, Damocles_39, DanHam62_34, Daob_37, Fingolfin_34, Glotell_35, GramZayde_36, HamCheese_34, HannahPhantana_36, Jerole_36,

Juno112_33, KHumphrey_34, Laphuphu24k_32, Leona_33, Oppalora_33, Orcanus_32, OtsoOtso_36, PhluffyCoco_34, Pineda_37, Polka_35, Rattail_34, RedFox_34, TaylorSipht_32, ThursdayNight_52,

Genes that have the "Most Annotated" start but do not call it:
• Coral_35, Cote_37, Renna12_33,

Genes that do not have the "Most Annotated" start:
• Amanises_34, Chickaboom_33, Chicken_31, Eesa_31, Gravel_38, Jamun_31, KendraB23_39, Niblet_31, Pelletreau_38, Toad24_34, Westrich_37, WileyE_33, Zhuangyuan_37, Zixiang_31,

Summary by start number:

Start 20:
• Found in 8 of 53 (15.1%) of genes in pham
• Manual Annotations of this start: 3 of 41
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Coral_35 (AS2), Cote_37 (AS2), Renna12_33 (AS3),

Start 22:
• Found in 13 of 53 (24.5%) of genes in pham
• Manual Annotations of this start: 9 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amanises_34 (AS1), Chickaboom_33 (AS1), Chicken_31 (AS1), Eesa_31 (AS1), Gravel_38 (AS1), Jamun_31 (AS1), KendraB23_39 (AS1), Niblet_31 (AS1), Pelletreau_38 (AS1), Toad24_34 (AS1), Westrich_37 (AS1), WileyE_33 (AS1), Zixiang_31 (AS1),

Start 23:
• Found in 39 of 53 (73.6%) of genes in pham
• Manual Annotations of this start: 28 of 41
• Called 92.3% of time when present
• Phage (with cluster) where this start called: AdoptaAdorbs_33 (AS3), AlexMinion_34 (AS3), AmiCi24_33 (AS3), Amphitrite_34 (AS3), Andrew_35 (AS3), Atlantica_34 (AS3), Azaz_34 (AS3), Babushka_31 (AS3), Bedetta_39 (AS2), Bibble12_36 (AS2), Camara_34 (AS3), Colusalem_36 (AS2), Cygnet_35 (AS2), Damocles_39 (AS2), DanHam62_34 (AS3), Daob_37 (AS2), Fingolfin_34 (AS3), Glotell_35 (AS3), GramZayde_36 (AS2), HamCheese_34 (AS3), HannahPhantana_36 (AS2), Jerole_36 (AS2), Juno112_33 (AS3), KHumphrey_34 (AS3), Laphuphu24k_32 (AS3), Leona_33 (AS3), Oppalora_33 (AS3), Orcanus_32 (AS1), OtsoOtso_36 (AS2), PhluffyCoco_34 (AS3), Pineda_37 (AS2), Polka_35 (AS2), Rattail_34 (AS3), RedFox_34 (AS3), TaylorSipht_32 (AS1), ThursdayNight_52 (AZ),

Start 24:
• Found in 1 of 53 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Zhuangyuan_37 (AS2),

Summary by clusters:

There are 4 clusters represented in this pham: AS3, AS2, AS1, AZ,

Info for manual annotations of cluster AS1:
•Start number 22 was manually annotated 9 times for cluster AS1.
•Start number 23 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 20 was manually annotated 2 times for cluster AS2.
•Start number 23 was manually annotated 8 times for cluster AS2.
•Start number 24 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 20 was manually annotated 1 time for cluster AS3.
•Start number 23 was manually annotated 17 times for cluster AS3.

Info for manual annotations of cluster AZ:
•Start number 23 was manually annotated 1 time for cluster AZ.

Gene Information:

Gene: AdoptaAdorbs_33 Start: 22211, Stop: 22032, Start Num: 23
Candidate Starts for AdoptaAdorbs_33:
(Start: 23 @22211 has 28 MA's), (27, 22139),

Gene: AlexMinion_34 Start: 22394, Stop: 22215, Start Num: 23
Candidate Starts for AlexMinion_34:
(Start: 23 @22394 has 28 MA's), (27, 22322),

Gene: Amanises_34 Start: 23489, Stop: 23307, Start Num: 22
Candidate Starts for Amanises_34:
(14, 23639), (18, 23567), (Start: 22 @23489 has 9 MA's),

Gene: AmiCi24_33 Start: 22209, Stop: 22030, Start Num: 23
Candidate Starts for AmiCi24_33:
(Start: 23 @22209 has 28 MA's), (27, 22137),

Gene: Amphitrite_34 Start: 22210, Stop: 22031, Start Num: 23
Candidate Starts for Amphitrite_34:
(Start: 23 @22210 has 28 MA's), (25, 22171), (27, 22138),

Gene: Andrew_35 Start: 22183, Stop: 21995, Start Num: 23
Candidate Starts for Andrew_35:
(Start: 23 @22183 has 28 MA's), (27, 22102),

Gene: Atlantica_34 Start: 22211, Stop: 22032, Start Num: 23
Candidate Starts for Atlantica_34:
(Start: 23 @22211 has 28 MA's), (27, 22139),

Gene: Azaz_34 Start: 22280, Stop: 22101, Start Num: 23
Candidate Starts for Azaz_34:
(Start: 23 @22280 has 28 MA's), (27, 22208),

Gene: Babushka_31 Start: 22143, Stop: 21952, Start Num: 23
Candidate Starts for Babushka_31:
(17, 22221), (Start: 23 @22143 has 28 MA's), (27, 22059),

Gene: Bedetta_39 Start: 22863, Stop: 22681, Start Num: 23
Candidate Starts for Bedetta_39:
(1, 23928), (2, 23913), (3, 23820), (4, 23748), (5, 23460), (Start: 20 @22908 has 3 MA's), (Start: 23 @22863 has 28 MA's),

Gene: Bibble12_36 Start: 22712, Stop: 22530, Start Num: 23
Candidate Starts for Bibble12_36:
(Start: 23 @22712 has 28 MA's),

Gene: Camara_34 Start: 22213, Stop: 22034, Start Num: 23
Candidate Starts for Camara_34:
(Start: 23 @22213 has 28 MA's), (27, 22141),

Gene: Chickaboom_33 Start: 22527, Stop: 22345, Start Num: 22
Candidate Starts for Chickaboom_33:
(6, 23004), (8, 22869), (10, 22806), (11, 22722), (15, 22668), (16, 22647), (18, 22605), (Start: 22 @22527 has 9 MA's), (26, 22452),

Gene: Chicken_31 Start: 22798, Stop: 22616, Start Num: 22
Candidate Starts for Chicken_31:
(18, 22876), (Start: 22 @22798 has 9 MA's),

Gene: Colusalem_36 Start: 22693, Stop: 22511, Start Num: 23
Candidate Starts for Colusalem_36:
(Start: 23 @22693 has 28 MA's),

Gene: Coral_35 Start: 22609, Stop: 22382, Start Num: 20
Candidate Starts for Coral_35:
(1, 23629), (2, 23614), (3, 23521), (4, 23449), (5, 23161), (Start: 20 @22609 has 3 MA's), (Start: 23 @22564 has 28 MA's),

Gene: Cote_37 Start: 23086, Stop: 22859, Start Num: 20
Candidate Starts for Cote_37:
(1, 24106), (2, 24091), (3, 23998), (4, 23926), (5, 23638), (Start: 20 @23086 has 3 MA's), (Start: 23 @23041 has 28 MA's),

Gene: Cygnet_35 Start: 23502, Stop: 23323, Start Num: 23
Candidate Starts for Cygnet_35:
(21, 23532), (Start: 23 @23502 has 28 MA's), (27, 23430),

Gene: Damocles_39 Start: 22852, Stop: 22670, Start Num: 23
Candidate Starts for Damocles_39:
(Start: 23 @22852 has 28 MA's),

Gene: DanHam62_34 Start: 22210, Stop: 22031, Start Num: 23
Candidate Starts for DanHam62_34:
(Start: 23 @22210 has 28 MA's), (27, 22138),

Gene: Daob_37 Start: 23050, Stop: 22868, Start Num: 23
Candidate Starts for Daob_37:
(Start: 23 @23050 has 28 MA's),

Gene: Eesa_31 Start: 23331, Stop: 23149, Start Num: 22
Candidate Starts for Eesa_31:
(18, 23409), (Start: 22 @23331 has 9 MA's), (26, 23256),

Gene: Fingolfin_34 Start: 22213, Stop: 22034, Start Num: 23
Candidate Starts for Fingolfin_34:
(Start: 23 @22213 has 28 MA's), (27, 22141),

Gene: Glotell_35 Start: 22369, Stop: 22190, Start Num: 23
Candidate Starts for Glotell_35:
(Start: 23 @22369 has 28 MA's), (27, 22297),

Gene: GramZayde_36 Start: 22877, Stop: 22695, Start Num: 23
Candidate Starts for GramZayde_36:
(1, 23942), (2, 23927), (3, 23834), (4, 23762), (5, 23474), (Start: 20 @22922 has 3 MA's), (Start: 23 @22877 has 28 MA's),

Gene: Gravel_38 Start: 23301, Stop: 23119, Start Num: 22
Candidate Starts for Gravel_38:
(14, 23451), (18, 23379), (Start: 22 @23301 has 9 MA's),

Gene: HamCheese_34 Start: 22197, Stop: 22018, Start Num: 23
Candidate Starts for HamCheese_34:
(Start: 23 @22197 has 28 MA's), (27, 22125),

Gene: HannahPhantana_36 Start: 22712, Stop: 22530, Start Num: 23
Candidate Starts for HannahPhantana_36:
(Start: 23 @22712 has 28 MA's),

Gene: Jamun_31 Start: 22438, Stop: 22256, Start Num: 22
Candidate Starts for Jamun_31:
(Start: 22 @22438 has 9 MA's), (26, 22363),

Gene: Jerole_36 Start: 22835, Stop: 22653, Start Num: 23
Candidate Starts for Jerole_36:
(Start: 23 @22835 has 28 MA's),

Gene: Juno112_33 Start: 22213, Stop: 22034, Start Num: 23
Candidate Starts for Juno112_33:
(Start: 23 @22213 has 28 MA's), (27, 22141),

Gene: KHumphrey_34 Start: 22212, Stop: 22033, Start Num: 23
Candidate Starts for KHumphrey_34:
(Start: 23 @22212 has 28 MA's), (27, 22140),

Gene: KendraB23_39 Start: 23489, Stop: 23307, Start Num: 22
Candidate Starts for KendraB23_39:
(14, 23639), (18, 23567), (Start: 22 @23489 has 9 MA's),

Gene: Laphuphu24k_32 Start: 22197, Stop: 22018, Start Num: 23
Candidate Starts for Laphuphu24k_32:
(Start: 23 @22197 has 28 MA's), (27, 22125),

Gene: Leona_33 Start: 22280, Stop: 22101, Start Num: 23
Candidate Starts for Leona_33:
(Start: 23 @22280 has 28 MA's), (27, 22208),

Gene: Niblet_31 Start: 22885, Stop: 22703, Start Num: 22
Candidate Starts for Niblet_31:
(18, 22963), (Start: 22 @22885 has 9 MA's),

Gene: Oppalora_33 Start: 22210, Stop: 22031, Start Num: 23
Candidate Starts for Oppalora_33:
(Start: 23 @22210 has 28 MA's), (27, 22138),

Gene: Orcanus_32 Start: 23008, Stop: 22826, Start Num: 23
Candidate Starts for Orcanus_32:
(19, 23074), (Start: 20 @23053 has 3 MA's), (Start: 23 @23008 has 28 MA's), (26, 22933),

Gene: OtsoOtso_36 Start: 22566, Stop: 22384, Start Num: 23
Candidate Starts for OtsoOtso_36:
(Start: 23 @22566 has 28 MA's),

Gene: Pelletreau_38 Start: 23301, Stop: 23119, Start Num: 22
Candidate Starts for Pelletreau_38:
(14, 23451), (18, 23379), (Start: 22 @23301 has 9 MA's),

Gene: PhluffyCoco_34 Start: 22210, Stop: 22016, Start Num: 23
Candidate Starts for PhluffyCoco_34:
(Start: 23 @22210 has 28 MA's), (27, 22123),

Gene: Pineda_37 Start: 22861, Stop: 22679, Start Num: 23
Candidate Starts for Pineda_37:
(1, 23926), (2, 23911), (3, 23818), (4, 23746), (5, 23458), (Start: 20 @22906 has 3 MA's), (Start: 23 @22861 has 28 MA's),

Gene: Polka_35 Start: 22566, Stop: 22384, Start Num: 23
Candidate Starts for Polka_35:
(Start: 23 @22566 has 28 MA's),

Gene: Rattail_34 Start: 22294, Stop: 22115, Start Num: 23
Candidate Starts for Rattail_34:
(Start: 23 @22294 has 28 MA's), (27, 22222),

Gene: RedFox_34 Start: 22209, Stop: 22030, Start Num: 23
Candidate Starts for RedFox_34:
(Start: 23 @22209 has 28 MA's), (27, 22137),

Gene: Renna12_33 Start: 22293, Stop: 22057, Start Num: 20
Candidate Starts for Renna12_33:
(7, 22647), (9, 22587), (12, 22428), (13, 22407), (Start: 20 @22293 has 3 MA's), (Start: 23 @22251 has 28 MA's), (27, 22164),

Gene: TaylorSipht_32 Start: 22421, Stop: 22239, Start Num: 23
Candidate Starts for TaylorSipht_32:
(Start: 20 @22466 has 3 MA's), (Start: 23 @22421 has 28 MA's), (26, 22346),

Gene: ThursdayNight_52 Start: 36229, Stop: 36414, Start Num: 23
Candidate Starts for ThursdayNight_52:
(Start: 23 @36229 has 28 MA's), (28, 36331), (29, 36337),

Gene: Toad24_34 Start: 23550, Stop: 23368, Start Num: 22
Candidate Starts for Toad24_34:
(18, 23628), (Start: 22 @23550 has 9 MA's), (26, 23475),

Gene: Westrich_37 Start: 23225, Stop: 23043, Start Num: 22
Candidate Starts for Westrich_37:
(14, 23375), (18, 23303), (Start: 22 @23225 has 9 MA's),

Gene: WileyE_33 Start: 22527, Stop: 22345, Start Num: 22
Candidate Starts for WileyE_33:
(6, 23004), (8, 22869), (10, 22806), (11, 22722), (15, 22668), (16, 22647), (18, 22605), (Start: 22 @22527 has 9 MA's), (26, 22452),

Gene: Zhuangyuan_37 Start: 23402, Stop: 23214, Start Num: 24
Candidate Starts for Zhuangyuan_37:
(Start: 24 @23402 has 1 MA's),

Gene: Zixiang_31 Start: 22907, Stop: 22725, Start Num: 22
Candidate Starts for Zixiang_31:
(14, 23057), (18, 22985), (Start: 22 @22907 has 9 MA's),