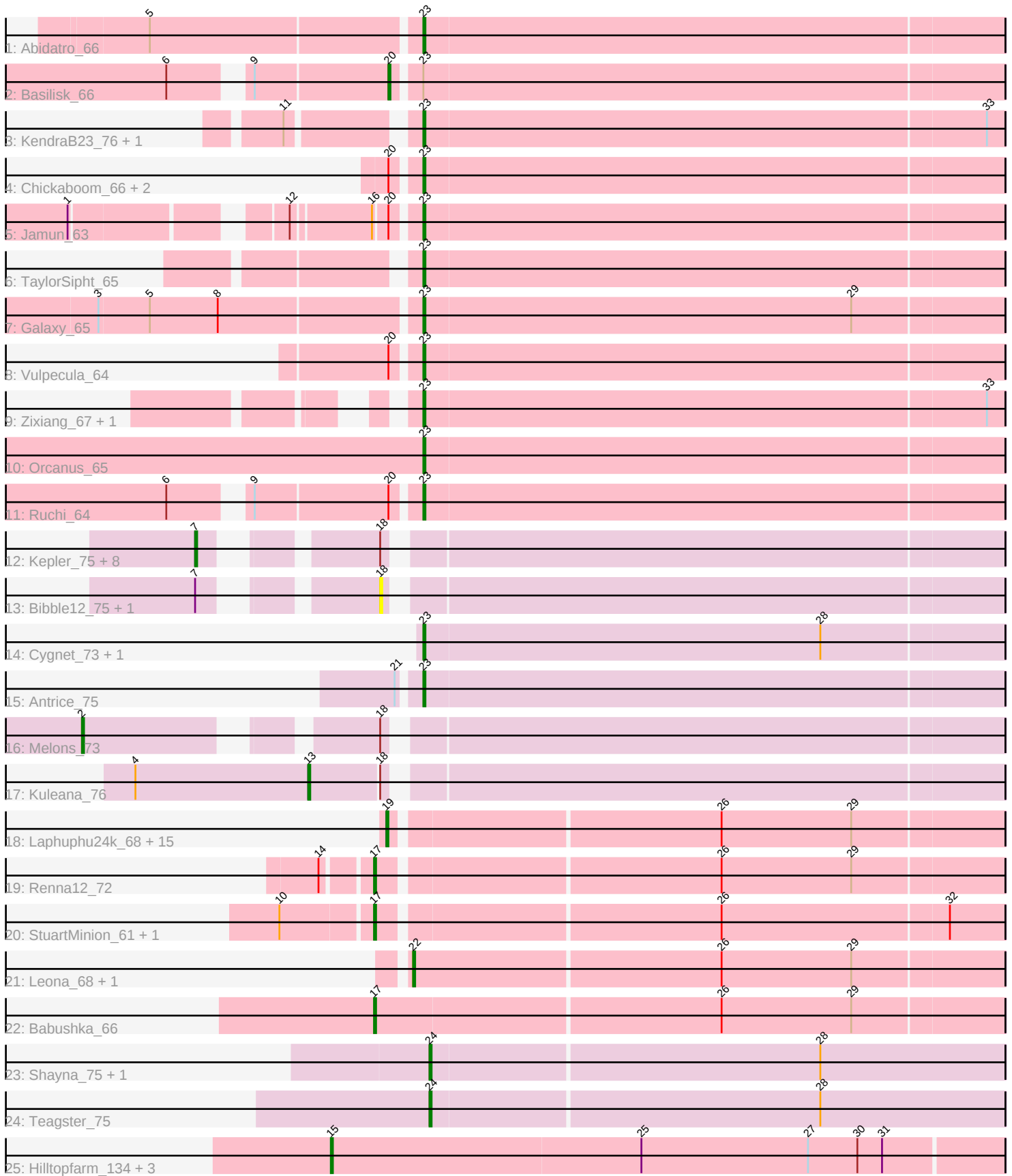


Pham 280468



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 280468 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280468 has 60 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Abidatro_66
- Track 2 : Basilisk_66
- Track 3 : KendraB23_76, Toad24_68
- Track 4 : Chickaboom_66, Brynnie_64, WileyE_70
- Track 5 : Jamun_63
- Track 6 : TaylorSipht_65
- Track 7 : Galaxy_65
- Track 8 : Vulpecula_64
- Track 9 : Zixiang_67, Eesa_65
- Track 10 : Orcanus_65
- Track 11 : Ruchi_64
- Track 12 : Kepler_75, Amelia_71, Coral_72, Cote_75, Polka_71, OtsoOtso_72, Daob_71, PhirstandPhine_78, Colusalem_71
- Track 13 : Bibble12_75, Pineda_74
- Track 14 : Cygnet_73, LittleTokyo_73
- Track 15 : Antrice_75
- Track 16 : Melons_73
- Track 17 : Kuleana_76
- Track 18 : Laphuphu24k_68, Camara_69, Amphitrite_69, Fingolfin_70, Oppalora_68, KHumphrey_70, RedFox_71, Atlantica_70, Glotell_71, PhluffyCoco_68, HamCheese_69, DanHam62_68, AmiCi24_68, AdoptaAdorbs_68, Rattail_71, Juno112_69
- Track 19 : Renna12_72
- Track 20 : StuartMinion_61, AlexMinion_71
- Track 21 : Leona_68, Azaz_72
- Track 22 : Babushka_66
- Track 23 : Shayna_75, SunnyD_75
- Track 24 : Teagster_75
- Track 25 : Hilltopfarm_134, AuntGwenStacy_132, Faiyaz_132, Typha_129

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 14 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro_66, Antrice_75, Brynnie_64, Chickaboom_66, Cygnet_73, Eesa_65, Galaxy_65, Jamun_63, KendraB23_76, LittleTokyo_73, Orcanus_65, Ruchi_64, TaylorSipht_65, Toad24_68, Vulpecula_64, WileyE_70, Zixiang_67,

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

- Basilisk_66,

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

- AdoptaAdorbs_68, AlexMinion_71, Amelia_71, AmiCi24_68, Amphitrite_69, Atlantica_70, AuntGwenStacy_132, Azaz_72, Babushka_66, Bibble12_75, Camara_69, Colusalem_71, Coral_72, Cote_75, DanHam62_68, Daob_71, Faiyaz_132, Fingolfin_70, Glotell_71, HamCheese_69, Hilltopfarm_134, Juno112_69, KHumphrey_70, Kepler_75, Kuleana_76, Laphuphu24k_68, Leona_68, Melons_73, Oppalora_68, OtsoOtso_72, PhirstandPhine_78, PhluffyCoco_68, Pineda_74, Polka_71, Rattail_71, RedFox_71, Renna12_72, Shayna_75, StuartMinion_61, SunnyD_75, Teagster_75, Typha_129,

Summary by start number:

Start 2:

- Found in 1 of 60 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Melons_73 (AS2),

Start 7:

- Found in 11 of 60 (18.3%) of genes in pham
- Manual Annotations of this start: 8 of 43
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Amelia_71 (AS2), Colusalem_71 (AS2), Coral_72 (AS2), Cote_75 (AS2), Daob_71 (AS2), Kepler_75 (AS2), OtsoOtso_72 (AS2), PhirstandPhine_78 (AS2), Polka_71 (AS2),

Start 13:

- Found in 1 of 60 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuleana_76 (AS2),

Start 15:

- Found in 4 of 60 (6.7%) of genes in pham
- Manual Annotations of this start: 3 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_132 (Y), Faiyaz_132 (Y), Hilltopfarm_134 (Y), Typha_129 (Y),

Start 17:

- Found in 4 of 60 (6.7%) of genes in pham
- Manual Annotations of this start: 3 of 43
- Called 100.0% of time when present

- Phage (with cluster) where this start called: AlexMinion_71 (AS3), Babushka_66 (AS3), Renna12_72 (AS3), StuartMinion_61 (AS3),

Start 18:

- Found in 13 of 60 (21.7%) of genes in pham
- No Manual Annotations of this start.
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Bibble12_75 (AS2), Pineda_74 (AS2),

Start 19:

- Found in 16 of 60 (26.7%) of genes in pham
- Manual Annotations of this start: 8 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AdoptaAdorbs_68 (AS3), AmiCi24_68 (AS3), Amphitrite_69 (AS3), Atlantica_70 (AS3), Camara_69 (AS3), DanHam62_68 (AS3), Fingolfin_70 (AS3), Glotell_71 (AS3), HamCheese_69 (AS3), Juno112_69 (AS3), KHumphrey_70 (AS3), Laphuphu24k_68 (AS3), Oppalora_68 (AS3), PhluffyCoco_68 (AS3), Rattail_71 (AS3), RedFox_71 (AS3),

Start 20:

- Found in 7 of 60 (11.7%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Basilisk_66 (AS1),

Start 22:

- Found in 2 of 60 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azaz_72 (AS3), Leona_68 (AS3),

Start 23:

- Found in 18 of 60 (30.0%) of genes in pham
- Manual Annotations of this start: 14 of 43
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Abidatro_66 (AS1), Antrice_75 (AS2), Brynnie_64 (AS1), Chickaboom_66 (AS1), Cygnet_73 (AS2), Eesa_65 (AS1), Galaxy_65 (AS1), Jamun_63 (AS1), KendraB23_76 (AS1), LittleTokyo_73 (AS2), Orcanus_65 (AS1), Ruchi_64 (AS1), TaylorSipht_65 (AS1), Toad24_68 (AS1), Vulpecula_64 (AS1), WileyE_70 (AS1), Zixiang_67 (AS1),

Start 24:

- Found in 3 of 60 (5.0%) of genes in pham
- Manual Annotations of this start: 3 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shayna_75 (EB), SunnyD_75 (EB), Teagster_75 (EB),

Summary by clusters:

There are 5 clusters represented in this pham: AS3, AS2, AS1, Y, EB,

Info for manual annotations of cluster AS1:

- Start number 20 was manually annotated 1 time for cluster AS1.
- Start number 23 was manually annotated 11 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 2 was manually annotated 1 time for cluster AS2.
- Start number 7 was manually annotated 8 times for cluster AS2.
- Start number 13 was manually annotated 1 time for cluster AS2.
- Start number 23 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 17 was manually annotated 3 times for cluster AS3.
- Start number 19 was manually annotated 8 times for cluster AS3.
- Start number 22 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster EB:

- Start number 24 was manually annotated 3 times for cluster EB.

Info for manual annotations of cluster Y:

- Start number 15 was manually annotated 3 times for cluster Y.

Gene Information:

Gene: Abidatro_66 Start: 38766, Stop: 39044, Start Num: 23

Candidate Starts for Abidatro_66:

(5, 38640), (Start: 23 @38766 has 14 MA's),

Gene: AdoptaAdorbs_68 Start: 37992, Stop: 38279, Start Num: 19

Candidate Starts for AdoptaAdorbs_68:

(Start: 19 @37992 has 8 MA's), (26, 38145), (29, 38208),

Gene: AlexMinion_71 Start: 37930, Stop: 38223, Start Num: 17

Candidate Starts for AlexMinion_71:

(10, 37888), (Start: 17 @37930 has 3 MA's), (26, 38089), (32, 38197),

Gene: Amelia_71 Start: 37701, Stop: 38054, Start Num: 7

Candidate Starts for Amelia_71:

(Start: 7 @37701 has 8 MA's), (18, 37767),

Gene: AmiCi24_68 Start: 38101, Stop: 38388, Start Num: 19

Candidate Starts for AmiCi24_68:

(Start: 19 @38101 has 8 MA's), (26, 38254), (29, 38317),

Gene: Amphitrite_69 Start: 38005, Stop: 38292, Start Num: 19

Candidate Starts for Amphitrite_69:

(Start: 19 @38005 has 8 MA's), (26, 38158), (29, 38221),

Gene: Antrice_75 Start: 38862, Stop: 39140, Start Num: 23

Candidate Starts for Antrice_75:

(21, 38853), (Start: 23 @38862 has 14 MA's),

Gene: Atlantica_70 Start: 38103, Stop: 38390, Start Num: 19

Candidate Starts for Atlantica_70:

(Start: 19 @38103 has 8 MA's), (26, 38256), (29, 38319),

Gene: AuntGwenStacy_132 Start: 74981, Stop: 75304, Start Num: 15

Candidate Starts for AuntGwenStacy_132:

(Start: 15 @74981 has 3 MA's), (25, 75131), (27, 75212), (30, 75236), (31, 75248),

Gene: Azaz_72 Start: 38251, Stop: 38532, Start Num: 22

Candidate Starts for Azaz_72:

(Start: 22 @38251 has 1 MA's), (26, 38398), (29, 38461),

Gene: Babushka_66 Start: 38003, Stop: 38302, Start Num: 17

Candidate Starts for Babushka_66:

(Start: 17 @38003 has 3 MA's), (26, 38168), (29, 38231),

Gene: Basilisk_66 Start: 38281, Stop: 38571, Start Num: 20

Candidate Starts for Basilisk_66:

(6, 38188), (9, 38218), (Start: 20 @38281 has 1 MA's), (Start: 23 @38293 has 14 MA's),

Gene: Bibble12_75 Start: 38337, Stop: 38624, Start Num: 18

Candidate Starts for Bibble12_75:

(Start: 7 @38274 has 8 MA's), (18, 38337),

Gene: Brynnie_64 Start: 38238, Stop: 38516, Start Num: 23

Candidate Starts for Brynnie_64:

(Start: 20 @38226 has 1 MA's), (Start: 23 @38238 has 14 MA's),

Gene: Camara_69 Start: 37993, Stop: 38280, Start Num: 19

Candidate Starts for Camara_69:

(Start: 19 @37993 has 8 MA's), (26, 38146), (29, 38209),

Gene: Chickaboom_66 Start: 38402, Stop: 38680, Start Num: 23

Candidate Starts for Chickaboom_66:

(Start: 20 @38390 has 1 MA's), (Start: 23 @38402 has 14 MA's),

Gene: Colusalem_71 Start: 37678, Stop: 38028, Start Num: 7

Candidate Starts for Colusalem_71:

(Start: 7 @37678 has 8 MA's), (18, 37741),

Gene: Coral_72 Start: 37893, Stop: 38243, Start Num: 7

Candidate Starts for Coral_72:

(Start: 7 @37893 has 8 MA's), (18, 37956),

Gene: Cote_75 Start: 38617, Stop: 38970, Start Num: 7

Candidate Starts for Cote_75:

(Start: 7 @38617 has 8 MA's), (18, 38683),

Gene: Cygnet_73 Start: 39144, Stop: 39422, Start Num: 23

Candidate Starts for Cygnet_73:

(Start: 23 @39144 has 14 MA's), (28, 39336),

Gene: DanHam62_68 Start: 38102, Stop: 38389, Start Num: 19

Candidate Starts for DanHam62_68:

(Start: 19 @38102 has 8 MA's), (26, 38255), (29, 38318),

Gene: Daob_71 Start: 37543, Stop: 37893, Start Num: 7

Candidate Starts for Daob_71:

(Start: 7 @37543 has 8 MA's), (18, 37606),

Gene: Eesa_65 Start: 39439, Stop: 39717, Start Num: 23

Candidate Starts for Eesa_65:

(Start: 23 @39439 has 14 MA's), (33, 39709),

Gene: Faiyaz_132 Start: 75303, Stop: 75626, Start Num: 15

Candidate Starts for Faiyaz_132:

(Start: 15 @75303 has 3 MA's), (25, 75453), (27, 75534), (30, 75558), (31, 75570),

Gene: Fingolfin_70 Start: 38104, Stop: 38391, Start Num: 19

Candidate Starts for Fingolfin_70:

(Start: 19 @38104 has 8 MA's), (26, 38257), (29, 38320),

Gene: Galaxy_65 Start: 37453, Stop: 37731, Start Num: 23

Candidate Starts for Galaxy_65:

(3, 37303), (5, 37327), (8, 37360), (Start: 23 @37453 has 14 MA's), (29, 37660),

Gene: Glotell_71 Start: 38150, Stop: 38437, Start Num: 19

Candidate Starts for Glotell_71:

(Start: 19 @38150 has 8 MA's), (26, 38303), (29, 38366),

Gene: HamCheese_69 Start: 38089, Stop: 38376, Start Num: 19

Candidate Starts for HamCheese_69:

(Start: 19 @38089 has 8 MA's), (26, 38242), (29, 38305),

Gene: Hilltopfarm_134 Start: 76128, Stop: 76451, Start Num: 15

Candidate Starts for Hilltopfarm_134:

(Start: 15 @76128 has 3 MA's), (25, 76278), (27, 76359), (30, 76383), (31, 76395),

Gene: Jamun_63 Start: 38467, Stop: 38745, Start Num: 23

Candidate Starts for Jamun_63:

(1, 38326), (12, 38413), (16, 38449), (Start: 20 @38455 has 1 MA's), (Start: 23 @38467 has 14 MA's),

Gene: Juno112_69 Start: 38104, Stop: 38391, Start Num: 19

Candidate Starts for Juno112_69:

(Start: 19 @38104 has 8 MA's), (26, 38257), (29, 38320),

Gene: KHumphrey_70 Start: 37978, Stop: 38265, Start Num: 19

Candidate Starts for KHumphrey_70:

(Start: 19 @37978 has 8 MA's), (26, 38131), (29, 38194),

Gene: KendraB23_76 Start: 39417, Stop: 39695, Start Num: 23

Candidate Starts for KendraB23_76:

(11, 39363), (Start: 23 @39417 has 14 MA's), (33, 39687),

Gene: Kepler_75 Start: 38025, Stop: 38375, Start Num: 7

Candidate Starts for Kepler_75:

(Start: 7 @38025 has 8 MA's), (18, 38088),

Gene: Kuleana_76 Start: 38455, Stop: 38775, Start Num: 13
Candidate Starts for Kuleana_76:
(4, 38371), (Start: 13 @38455 has 1 MA's), (18, 38488),

Gene: Laphuphu24k_68 Start: 38089, Stop: 38376, Start Num: 19
Candidate Starts for Laphuphu24k_68:
(Start: 19 @38089 has 8 MA's), (26, 38242), (29, 38305),

Gene: Leona_68 Start: 38237, Stop: 38518, Start Num: 22
Candidate Starts for Leona_68:
(Start: 22 @38237 has 1 MA's), (26, 38384), (29, 38447),

Gene: LittleTokyo_73 Start: 38604, Stop: 38882, Start Num: 23
Candidate Starts for LittleTokyo_73:
(Start: 23 @38604 has 14 MA's), (28, 38796),

Gene: Melons_73 Start: 37979, Stop: 38383, Start Num: 2
Candidate Starts for Melons_73:
(Start: 2 @37979 has 1 MA's), (18, 38096),

Gene: Oppalora_68 Start: 38103, Stop: 38390, Start Num: 19
Candidate Starts for Oppalora_68:
(Start: 19 @38103 has 8 MA's), (26, 38256), (29, 38319),

Gene: Orcanus_65 Start: 39051, Stop: 39329, Start Num: 23
Candidate Starts for Orcanus_65:
(Start: 23 @39051 has 14 MA's),

Gene: OtsoOtso_72 Start: 37650, Stop: 38003, Start Num: 7
Candidate Starts for OtsoOtso_72:
(Start: 7 @37650 has 8 MA's), (18, 37716),

Gene: PhirstandPhine_78 Start: 37839, Stop: 38192, Start Num: 7
Candidate Starts for PhirstandPhine_78:
(Start: 7 @37839 has 8 MA's), (18, 37905),

Gene: PhluffyCoco_68 Start: 38203, Stop: 38490, Start Num: 19
Candidate Starts for PhluffyCoco_68:
(Start: 19 @38203 has 8 MA's), (26, 38356), (29, 38419),

Gene: Pineda_74 Start: 38058, Stop: 38345, Start Num: 18
Candidate Starts for Pineda_74:
(Start: 7 @37995 has 8 MA's), (18, 38058),

Gene: Polka_71 Start: 37650, Stop: 38003, Start Num: 7
Candidate Starts for Polka_71:
(Start: 7 @37650 has 8 MA's), (18, 37716),

Gene: Rattail_71 Start: 38499, Stop: 38786, Start Num: 19
Candidate Starts for Rattail_71:
(Start: 19 @38499 has 8 MA's), (26, 38652), (29, 38715),

Gene: RedFox_71 Start: 38363, Stop: 38650, Start Num: 19

Candidate Starts for RedFox_71:

(Start: 19 @38363 has 8 MA's), (26, 38516), (29, 38579),

Gene: Renna12_72 Start: 38798, Stop: 39091, Start Num: 17

Candidate Starts for Renna12_72:

(14, 38777), (Start: 17 @38798 has 3 MA's), (26, 38957), (29, 39020),

Gene: Ruchi_64 Start: 38215, Stop: 38493, Start Num: 23

Candidate Starts for Ruchi_64:

(6, 38110), (9, 38140), (Start: 20 @38203 has 1 MA's), (Start: 23 @38215 has 14 MA's),

Gene: Shayna_75 Start: 41004, Stop: 41279, Start Num: 24

Candidate Starts for Shayna_75:

(Start: 24 @41004 has 3 MA's), (28, 41190),

Gene: StuartMinion_61 Start: 34829, Stop: 35122, Start Num: 17

Candidate Starts for StuartMinion_61:

(10, 34787), (Start: 17 @34829 has 3 MA's), (26, 34988), (32, 35096),

Gene: SunnyD_75 Start: 41007, Stop: 41282, Start Num: 24

Candidate Starts for SunnyD_75:

(Start: 24 @41007 has 3 MA's), (28, 41193),

Gene: TaylorSipht_65 Start: 38681, Stop: 38959, Start Num: 23

Candidate Starts for TaylorSipht_65:

(Start: 23 @38681 has 14 MA's),

Gene: Teagster_75 Start: 41426, Stop: 41701, Start Num: 24

Candidate Starts for Teagster_75:

(Start: 24 @41426 has 3 MA's), (28, 41612),

Gene: Toad24_68 Start: 39472, Stop: 39750, Start Num: 23

Candidate Starts for Toad24_68:

(11, 39418), (Start: 23 @39472 has 14 MA's), (33, 39742),

Gene: Typha_129 Start: 74982, Stop: 75305, Start Num: 15

Candidate Starts for Typha_129:

(Start: 15 @74982 has 3 MA's), (25, 75132), (27, 75213), (30, 75237), (31, 75249),

Gene: Vulpecula_64 Start: 37410, Stop: 37688, Start Num: 23

Candidate Starts for Vulpecula_64:

(Start: 20 @37398 has 1 MA's), (Start: 23 @37410 has 14 MA's),

Gene: WileyE_70 Start: 38402, Stop: 38680, Start Num: 23

Candidate Starts for WileyE_70:

(Start: 20 @38390 has 1 MA's), (Start: 23 @38402 has 14 MA's),

Gene: Zixiang_67 Start: 38816, Stop: 39094, Start Num: 23

Candidate Starts for Zixiang_67:

(Start: 23 @38816 has 14 MA's), (33, 39086),