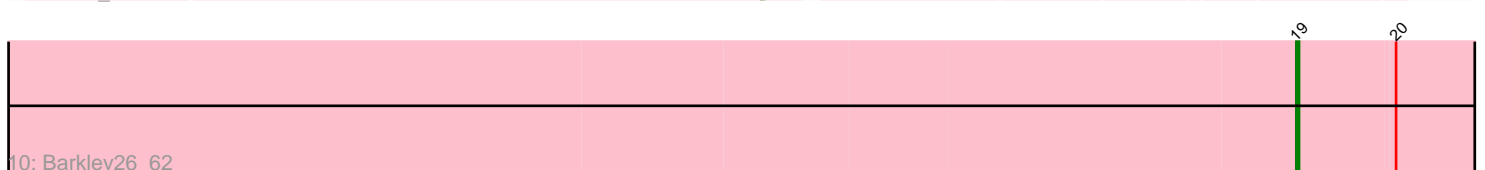
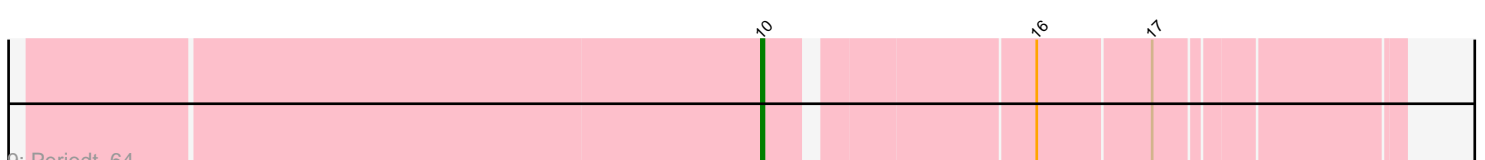
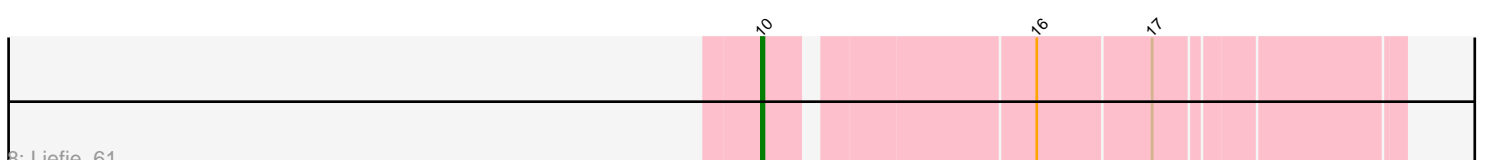
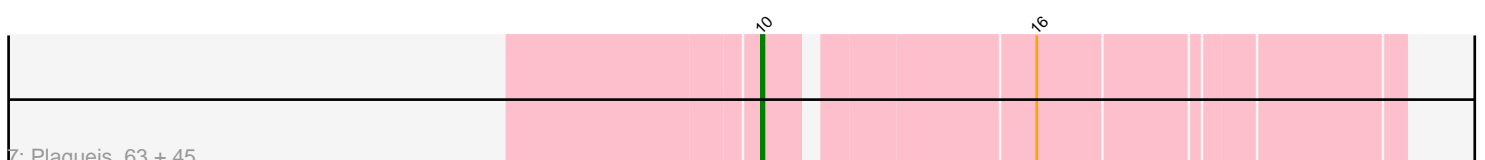
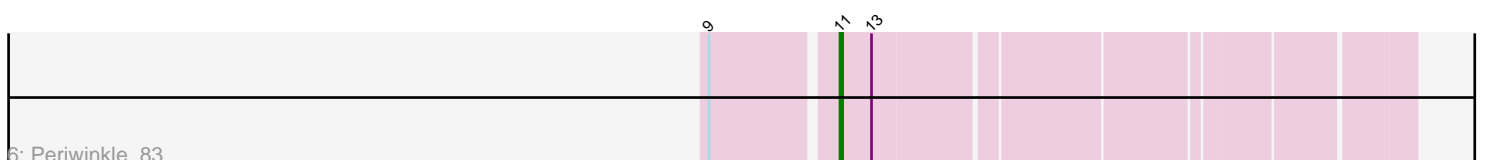
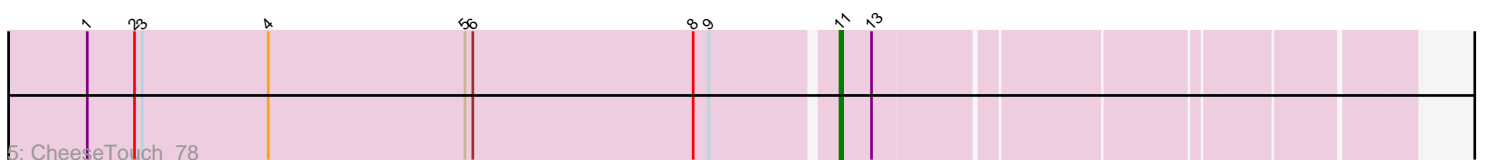
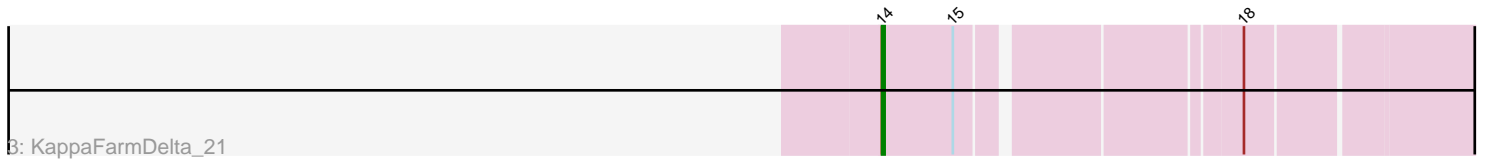
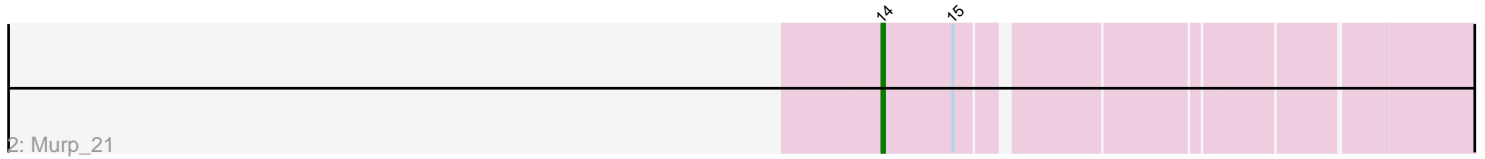
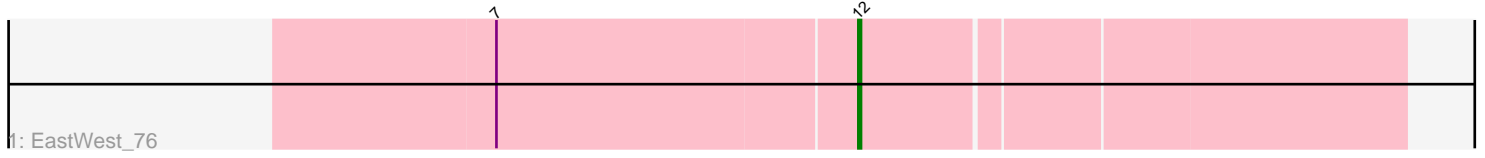


Pham 157886



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 157886 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157886 has 58 members, 0 are drafts.

Phages represented in each track:

- Track 1 : EastWest_76
- Track 2 : Murp_21
- Track 3 : KappaFarmDelta_21
- Track 4 : Jablanski_23, Pytheas_23, Posh_23, Wrigley_23
- Track 5 : CheeseTouch_78
- Track 6 : Periwinkle_83
- Track 7 : Plagueis_63, Renaissance_62, Camri_63, CassieYates_63, Chance64_63, Cedasite_63, LouisV14_65, JorRay_64, DNAlll_0060, Gideon_63, Angel_61, Aroostook_63, Cherrybomb426_62, ShaboiShabazz_62, CLED96_62, Phish_62, Zombie_63, Peeb_62, GoldenAsh_61, Annihilator_62, Hotshotbaby7_63, BPs_63, Mowgli_63, Phreak_63, Kareem_64, Frosty24_63, Crespo_62, Darionha_63, Remy19_63, Hope_63, BruceB_63, TomBrady_63, Jonghyun_61, Coleslaw_62, Avrafan_62, Jolene_63, Marmie_63, Kasen3_64, OctaviousRex_62, Sweets_63, PinkYoshi_63, Gomashi_62, Sizemore_64, Grizzly_62, Olga_64, Schiebel_61
- Track 8 : Liefie_61
- Track 9 : Periodt_64
- Track 10 : Barkley26_62

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 48 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angel_61, Annihilator_62, Aroostook_63, Avrafan_62, BPs_63, BruceB_63, CLED96_62, Camri_63, CassieYates_63, Cedasite_63, Chance64_63, Cherrybomb426_62, Coleslaw_62, Crespo_62, DNAlll_0060, Darionha_63, Frosty24_63, Gideon_63, GoldenAsh_61, Gomashi_62, Grizzly_62, Hope_63, Hotshotbaby7_63, Jolene_63, Jonghyun_61, JorRay_64, Kareem_64, Kasen3_64, Liefie_61, LouisV14_65, Marmie_63, Mowgli_63, OctaviousRex_62, Olga_64, Peeb_62, Periodt_64, Phish_62, Phreak_63, PinkYoshi_63, Plagueis_63, Remy19_63, Renaissance_62, Schiebel_61, ShaboiShabazz_62, Sizemore_64, Sweets_63, TomBrady_63, Zombie_63,

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

-

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

- Barkley26_62, CheeseTouch_78, EastWest_76, Jablanski_23, KappaFarmDelta_21, Murp_21, Periwinkle_83, Posh_23, Pytheas_23, Wrigley_23,

Summary by start number:

Start 10:

- Found in 48 of 58 (82.8%) of genes in pham
- Manual Annotations of this start: 48 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angel_61 (G1), Annihilator_62 (G1), Aroostook_63 (G1), Avrafan_62 (G1), BPs_63 (G1), BruceB_63 (G1), CLED96_62 (G1), Camri_63 (G1), CassieYates_63 (G1), Cedasite_63 (G1), Chance64_63 (G1), Cherrybomb426_62 (G1), Coleslaw_62 (G1), Crespo_62 (G1), DNAIII_0060 (G1), Darionha_63 (G1), Frosty24_63 (G1), Gideon_63 (G1), GoldenAsh_61 (G1), Gomashi_62 (G1), Grizzly_62 (G1), Hope_63 (G1), Hotshotbaby7_63 (G1), Jolene_63 (G1), Jonghyun_61 (G1), JorRay_64 (G1), Kareem_64 (G1), Kasen3_64 (G1), Liefie_61 (G1), LouisV14_65 (G1), Marmie_63 (G1), Mowgli_63 (G1), OctaviousRex_62 (G1), Olga_64 (G1), Peeb_62 (G1), Periodt_64 (G1), Phish_62 (G1), Phreak_63 (G1), PinkYoshi_63 (G1), Plagueis_63 (G1), Remy19_63 (G1), Renaissance_62 (G1), Schiebel_61 (G1), ShaboiShabazz_62 (G1), Sizemore_64 (G1), Sweets_63 (G1), TomBrady_63 (G1), Zombie_63 (G1),

Start 11:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CheeseTouch_78 (DN1), Periwinkle_83 (DN1),

Start 12:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EastWest_76 (AO),

Start 14:

- Found in 6 of 58 (10.3%) of genes in pham
- Manual Annotations of this start: 6 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jablanski_23 (CY), KappaFarmDelta_21 (CV), Murp_21 (CV), Posh_23 (CY), Pytheas_23 (CY), Wrigley_23 (CY),

Start 19:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barkley26_62 (G1),

Summary by clusters:

There are 5 clusters represented in this pham: AO, CY, DN1, CV, G1,

Info for manual annotations of cluster AO:

- Start number 12 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster CV:

- Start number 14 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CY:

- Start number 14 was manually annotated 4 times for cluster CY.

Info for manual annotations of cluster DN1:

- Start number 11 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster G1:

- Start number 10 was manually annotated 48 times for cluster G1.
- Start number 19 was manually annotated 1 time for cluster G1.

Gene Information:

Gene: Angel_61 Start: 41085, Stop: 41306, Start Num: 10

Candidate Starts for Angel_61:

(Start: 10 @41085 has 48 MA's), (16, 41178),

Gene: Annihilator_62 Start: 41537, Stop: 41758, Start Num: 10

Candidate Starts for Annihilator_62:

(Start: 10 @41537 has 48 MA's), (16, 41630),

Gene: Aroostook_63 Start: 41547, Stop: 41768, Start Num: 10

Candidate Starts for Aroostook_63:

(Start: 10 @41547 has 48 MA's), (16, 41640),

Gene: Avrafan_62 Start: 41545, Stop: 41766, Start Num: 10

Candidate Starts for Avrafan_62:

(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: BPs_63 Start: 41545, Stop: 41766, Start Num: 10

Candidate Starts for BPs_63:

(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: Barkley26_62 Start: 41400, Stop: 41621, Start Num: 19

Candidate Starts for Barkley26_62:

(Start: 19 @41400 has 1 MA's), (20, 41436),

Gene: BruceB_63 Start: 41545, Stop: 41766, Start Num: 10

Candidate Starts for BruceB_63:

(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: CLED96_62 Start: 41100, Stop: 41321, Start Num: 10

Candidate Starts for CLED96_62:
(Start: 10 @41100 has 48 MA's), (16, 41193),

Gene: Camri_63 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for Camri_63:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: CassieYates_63 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for CassieYates_63:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: Cedasite_63 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for Cedasite_63:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: Chance64_63 Start: 41547, Stop: 41768, Start Num: 10
Candidate Starts for Chance64_63:
(Start: 10 @41547 has 48 MA's), (16, 41640),

Gene: CheeseTouch_78 Start: 40545, Stop: 40745, Start Num: 11
Candidate Starts for CheeseTouch_78:
(1, 40263), (2, 40281), (3, 40284), (4, 40332), (5, 40407), (6, 40410), (8, 40494), (9, 40500), (Start: 11 @40545 has 2 MA's), (13, 40557),

Gene: Cherrybomb426_62 Start: 41100, Stop: 41321, Start Num: 10
Candidate Starts for Cherrybomb426_62:
(Start: 10 @41100 has 48 MA's), (16, 41193),

Gene: Coleslaw_62 Start: 41537, Stop: 41758, Start Num: 10
Candidate Starts for Coleslaw_62:
(Start: 10 @41537 has 48 MA's), (16, 41630),

Gene: Crespo_62 Start: 41546, Stop: 41767, Start Num: 10
Candidate Starts for Crespo_62:
(Start: 10 @41546 has 48 MA's), (16, 41639),

Gene: DNAIII_0060 Start: 39174, Stop: 39395, Start Num: 10
Candidate Starts for DNAIII_0060:
(Start: 10 @39174 has 48 MA's), (16, 39267),

Gene: Darionha_63 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for Darionha_63:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: EastWest_76 Start: 45392, Stop: 45592, Start Num: 12
Candidate Starts for EastWest_76:
(7, 45257), (Start: 12 @45392 has 1 MA's),

Gene: Frosty24_63 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for Frosty24_63:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: Gideon_63 Start: 41547, Stop: 41768, Start Num: 10

Candidate Starts for Gideon_63:
(Start: 10 @41547 has 48 MA's), (16, 41640),

Gene: GoldenAsh_61 Start: 41085, Stop: 41306, Start Num: 10
Candidate Starts for GoldenAsh_61:
(Start: 10 @41085 has 48 MA's), (16, 41178),

Gene: Gomashi_62 Start: 41547, Stop: 41768, Start Num: 10
Candidate Starts for Gomashi_62:
(Start: 10 @41547 has 48 MA's), (16, 41640),

Gene: Grizzly_62 Start: 41396, Stop: 41617, Start Num: 10
Candidate Starts for Grizzly_62:
(Start: 10 @41396 has 48 MA's), (16, 41489),

Gene: Hope_63 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for Hope_63:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: Hotshotbaby7_63 Start: 41547, Stop: 41768, Start Num: 10
Candidate Starts for Hotshotbaby7_63:
(Start: 10 @41547 has 48 MA's), (16, 41640),

Gene: Jablanski_23 Start: 20497, Stop: 20700, Start Num: 14
Candidate Starts for Jablanski_23:
(Start: 14 @20497 has 6 MA's), (15, 20524),

Gene: Jolene_63 Start: 41949, Stop: 42170, Start Num: 10
Candidate Starts for Jolene_63:
(Start: 10 @41949 has 48 MA's), (16, 42042),

Gene: Jonghyun_61 Start: 41548, Stop: 41769, Start Num: 10
Candidate Starts for Jonghyun_61:
(Start: 10 @41548 has 48 MA's), (16, 41641),

Gene: JorRay_64 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for JorRay_64:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: KappaFarmDelta_21 Start: 19185, Stop: 19388, Start Num: 14
Candidate Starts for KappaFarmDelta_21:
(Start: 14 @19185 has 6 MA's), (15, 19212), (18, 19308),

Gene: Kareem_64 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for Kareem_64:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: Kasen3_64 Start: 41534, Stop: 41755, Start Num: 10
Candidate Starts for Kasen3_64:
(Start: 10 @41534 has 48 MA's), (16, 41627),

Gene: Liefie_61 Start: 41294, Stop: 41515, Start Num: 10
Candidate Starts for Liefie_61:

(Start: 10 @41294 has 48 MA's), (16, 41387), (17, 41429),

Gene: LouisV14_65 Start: 43789, Stop: 44010, Start Num: 10

Candidate Starts for LouisV14_65:

(Start: 10 @43789 has 48 MA's), (16, 43882),

Gene: Marmie_63 Start: 41546, Stop: 41767, Start Num: 10

Candidate Starts for Marmie_63:

(Start: 10 @41546 has 48 MA's), (16, 41639),

Gene: Mowgli_63 Start: 41546, Stop: 41767, Start Num: 10

Candidate Starts for Mowgli_63:

(Start: 10 @41546 has 48 MA's), (16, 41639),

Gene: Murp_21 Start: 19085, Stop: 19288, Start Num: 14

Candidate Starts for Murp_21:

(Start: 14 @19085 has 6 MA's), (15, 19112),

Gene: OctaviousRex_62 Start: 41524, Stop: 41745, Start Num: 10

Candidate Starts for OctaviousRex_62:

(Start: 10 @41524 has 48 MA's), (16, 41617),

Gene: Olga_64 Start: 41546, Stop: 41767, Start Num: 10

Candidate Starts for Olga_64:

(Start: 10 @41546 has 48 MA's), (16, 41639),

Gene: Peeb_62 Start: 41520, Stop: 41741, Start Num: 10

Candidate Starts for Peeb_62:

(Start: 10 @41520 has 48 MA's), (16, 41613),

Gene: Periodt_64 Start: 42142, Stop: 42363, Start Num: 10

Candidate Starts for Periodt_64:

(Start: 10 @42142 has 48 MA's), (16, 42235), (17, 42277),

Gene: Periwinkle_83 Start: 46446, Stop: 46646, Start Num: 11

Candidate Starts for Periwinkle_83:

(9, 46401), (Start: 11 @46446 has 2 MA's), (13, 46458),

Gene: Phish_62 Start: 41545, Stop: 41766, Start Num: 10

Candidate Starts for Phish_62:

(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: Phreak_63 Start: 41545, Stop: 41766, Start Num: 10

Candidate Starts for Phreak_63:

(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: PinkYoshi_63 Start: 41537, Stop: 41758, Start Num: 10

Candidate Starts for PinkYoshi_63:

(Start: 10 @41537 has 48 MA's), (16, 41630),

Gene: Plagueis_63 Start: 41366, Stop: 41587, Start Num: 10

Candidate Starts for Plagueis_63:

(Start: 10 @41366 has 48 MA's), (16, 41459),

Gene: Posh_23 Start: 20350, Stop: 20553, Start Num: 14
Candidate Starts for Posh_23:
(Start: 14 @20350 has 6 MA's), (15, 20377),

Gene: Pytheas_23 Start: 20496, Stop: 20699, Start Num: 14
Candidate Starts for Pytheas_23:
(Start: 14 @20496 has 6 MA's), (15, 20523),

Gene: Remy19_63 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for Remy19_63:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: Renaissance_62 Start: 41523, Stop: 41744, Start Num: 10
Candidate Starts for Renaissance_62:
(Start: 10 @41523 has 48 MA's), (16, 41616),

Gene: Schiebel_61 Start: 41085, Stop: 41306, Start Num: 10
Candidate Starts for Schiebel_61:
(Start: 10 @41085 has 48 MA's), (16, 41178),

Gene: ShaboiShabazz_62 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for ShaboiShabazz_62:
(Start: 10 @41545 has 48 MA's), (16, 41638),

Gene: Sizemore_64 Start: 41534, Stop: 41755, Start Num: 10
Candidate Starts for Sizemore_64:
(Start: 10 @41534 has 48 MA's), (16, 41627),

Gene: Sweets_63 Start: 41540, Stop: 41761, Start Num: 10
Candidate Starts for Sweets_63:
(Start: 10 @41540 has 48 MA's), (16, 41633),

Gene: TomBrady_63 Start: 41546, Stop: 41767, Start Num: 10
Candidate Starts for TomBrady_63:
(Start: 10 @41546 has 48 MA's), (16, 41639),

Gene: Wrigley_23 Start: 20247, Stop: 20450, Start Num: 14
Candidate Starts for Wrigley_23:
(Start: 14 @20247 has 6 MA's), (15, 20274),

Gene: Zombie_63 Start: 41545, Stop: 41766, Start Num: 10
Candidate Starts for Zombie_63:
(Start: 10 @41545 has 48 MA's), (16, 41638),