



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 296471 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296471 has 86 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Schiebel_41, TomBrady_41, Maliketh_41, Zombie_41, MZKinsey_41, Phish_41, Hope_41, TinaBug_41, Avrafan_41, Wendigo_41, Plagueis_41, Olga_41, DingDing_41, Cedasite_41, BPs_41, Crespo_41, Darionha_41, Kareem_41, Jeilious_41, BruceB_41, Marmie_41, Gomashi_41, Ruriko_41, PinkYoshi_41, Camri_41, JorRay_41, Cherrybomb426_41, Renaissance_41, Jane_41, Annihilator_41, Phreak_41, Mowgli_41, Peeb_41, AzulaCat_41, Richarlison_41, Remy19_41, Frosty24_41, ShaboiShabazz_41, Coleslaw_41, GoldenAsh_41, Gideon_41, OctaviousRex_41, ZoMa_41, DMoney_41, LouisV14_43, BQuat_41, Halo_41, CassieYates_41, Neoh_41, Angel_41, Sweets_41, Sizemore_41, Kasen3_41, CLED96_41
- Track 2 : Hotshotbaby7_41, Phloodle_41, Periodt_41, Chance64_41, Liefie_41, AizenPogi_41, Aroostook_41, Rattrick_41, Jolene_41, DNAIII_0040, Jonghyun_40, ECartman_41
- Track 3 : Barkley26_41, Grizzly_41
- Track 4 : Terror_40, Taheera_40
- Track 5 : Paito_42
- Track 6 : Pace1224_40, FlagStaff_40
- Track 7 : Avocado_41
- Track 8 : GodSpeed_41
- Track 9 : Cambiare_42
- Track 10 : Pinnie_40
- Track 11 : MOOREtheMARYer_42
- Track 12 : Cloudyecho_41
- Track 13 : Mercurio_43
- Track 14 : Lemuria_42
- Track 15 : Jolie2_40
- Track 16 : Stargaze_41, YangYin_41
- Track 17 : Antsirabe_40
- Track 18 : Gancho_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 63 of the 70 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AizenPogi_41, Angel_41, Annihilator_41, Aroostook_41, Avrafan_41, AzulaCat_41, BPs_41, BQuat_41, Barkley26_41, BruceB_41, CLED96_41, Camri_41, CassieYates_41, Cedasite_41, Chance64_41, Cherrybomb426_41, Cloudyecho_41, Coleslaw_41, Crespo_41, DMoney_41, DNAlll_0040, Darionha_41, DingDing_41, ECartman_41, Frosty24_41, Gideon_41, GoldenAsh_41, Gomashi_41, Grizzly_41, Halo_41, Hope_41, Hotshotbaby7_41, Jane_41, Jeilious_41, Jolene_41, Jonghyun_40, JorRay_41, Kareem_41, Kasen3_41, Liefie_41, LouisV14_43, MOOREtheMARYer_42, MZKinsey_41, Maliketh_41, Marmie_41, Mercurio_43, Mowgli_41, Neoh_41, OctaviousRex_41, Olga_41, Paito_42, Peeb_41, Periodt_41, Phish_41, Phloodle_41, Phreak_41, PinkYoshi_41, Pinnie_40, Plagueis_41, Rattrick_41, Remy19_41, Renaissance_41, Richarlison_41, Ruriko_41, Schiebel_41, ShaboiShabazz_41, Sizemore_41, Sweets_41, Taheera_40, Terror_40, TinaBug_41, TomBrady_41, Wendigo_41, ZoMa_41, Zombie_41,

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

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

- Antsirabe_40, Avocado_41, Cambiare_42, FlagStaff_40, Gancho_56, GodSpeed_41, Jolie2_40, Lemuria_42, Pace1224_40, Stargaze_41, YangYin_41,

Summary by start number:

Start 7:

- Found in 1 of 86 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gancho_56 (Q),

Start 9:

- Found in 1 of 86 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avocado_41 (G2),

Start 10:

- Found in 75 of 86 (87.2%) of genes in pham
- Manual Annotations of this start: 63 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AizenPogi_41 (G1), Angel_41 (G1), Annihilator_41 (G1), Aroostook_41 (G1), Avrafan_41 (G1), AzulaCat_41 (G1), BPs_41 (G1), BQuat_41 (G1), Barkley26_41 (G1), BruceB_41 (G1), CLED96_41 (G1), Camri_41 (G1), CassieYates_41 (G1), Cedasite_41 (G1), Chance64_41 (G1), Cherrybomb426_41 (G1), Cloudyecho_41 (G3), Coleslaw_41 (G1), Crespo_41 (G1), DMoney_41 (G1), DNAlll_0040 (G1), Darionha_41 (G1), DingDing_41 (G1), ECartman_41 (G1), Frosty24_41 (G1), Gideon_41 (G1), GoldenAsh_41 (G1), Gomashi_41 (G1), Grizzly_41 (G1), Halo_41 (G1), Hope_41 (G1), Hotshotbaby7_41 (G1), Jane_41 (G1), Jeilious_41 (G), Jolene_41 (G1), Jonghyun_40 (G1), JorRay_41 (G1), Kareem_41 (G1), Kasen3_41 (G1), Liefie_41 (G1), LouisV14_43 (G1), MOOREtheMARYer_42 (G3), MZKinsey_41 (G1), Maliketh_41 (G1), Marmie_41 (G1), Mercurio_43 (G4), Mowgli_41 (G1), Neoh_41 (G), OctaviousRex_41 (G1),

Olga_41 (G1), Paito_42 (G1), Peeb_41 (G1), Periodt_41 (G1), Phish_41 (G1), Phloodle_41 (G1), Phreak_41 (G1), PinkYoshi_41 (G1), Pinnie_40 (G3), Plagueis_41 (G1), Rattrick_41 (G1), Remy19_41 (G1), Renaissance_41 (G1), Richarlison_41 (G1), Ruriko_41 (G1), Schiebel_41 (G1), ShaboiShabazz_41 (G1), Sizemore_41 (G1), Sweets_41 (G1), Taheera_40 (G1), Terror_40 (G1), TinaBug_41 (G1), TomBrady_41 (G1), Wendigo_41 (G1), ZoMa_41 (G1), Zombie_41 (G1),

Start 11:

- Found in 1 of 86 (1.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jolie2_40 (G4),

Start 13:

- Found in 6 of 86 (7.0%) of genes in pham
- Manual Annotations of this start: 4 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_40 (G5), Cambiare_42 (G2), FlagStaff_40 (G2), Pace1224_40 (G2), Stargaze_41 (G5), YangYin_41 (G5),

Start 14:

- Found in 2 of 86 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodSpeed_41 (G2), Lemuria_42 (G4),

Summary by clusters:

There are 7 clusters represented in this pham: G5, G4, G3, G2, G, Q, G1,

Info for manual annotations of cluster G1:

- Start number 10 was manually annotated 60 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 9 was manually annotated 1 time for cluster G2.
- Start number 13 was manually annotated 2 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 10 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 10 was manually annotated 1 time for cluster G4.
- Start number 14 was manually annotated 1 time for cluster G4.

Info for manual annotations of cluster G5:

- Start number 13 was manually annotated 2 times for cluster G5.

Info for manual annotations of cluster Q:

- Start number 7 was manually annotated 1 time for cluster Q.

Gene Information:

Gene: AizenPogi_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for AizenPogi_41:
(Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Angel_41 Start: 31743, Stop: 31895, Start Num: 10
Candidate Starts for Angel_41:
(3, 31509), (Start: 10 @31743 has 63 MA's), (22, 31875),

Gene: Annihilator_41 Start: 31749, Stop: 31901, Start Num: 10
Candidate Starts for Annihilator_41:
(3, 31515), (Start: 10 @31749 has 63 MA's), (22, 31881),

Gene: Antsirabe_40 Start: 32314, Stop: 32445, Start Num: 13
Candidate Starts for Antsirabe_40:
(Start: 13 @32314 has 4 MA's),

Gene: Aroostook_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Aroostook_41:
(Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Avocado_41 Start: 32998, Stop: 33153, Start Num: 9
Candidate Starts for Avocado_41:
(Start: 9 @32998 has 1 MA's), (12, 33010),

Gene: Avrafan_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Avrafan_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: AzulaCat_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for AzulaCat_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: BPs_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for BPs_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: BQuat_41 Start: 31749, Stop: 31901, Start Num: 10
Candidate Starts for BQuat_41:
(3, 31515), (Start: 10 @31749 has 63 MA's), (22, 31881),

Gene: Barkley26_41 Start: 31765, Stop: 31917, Start Num: 10
Candidate Starts for Barkley26_41:
(3, 31531), (Start: 10 @31765 has 63 MA's), (18, 31831), (22, 31897),

Gene: BruceB_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for BruceB_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: CLED96_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for CLED96_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Cambiare_42 Start: 33265, Stop: 33396, Start Num: 13
Candidate Starts for Cambiare_42:
(Start: 13 @33265 has 4 MA's),

Gene: Camri_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Camri_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: CassieYates_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for CassieYates_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Cedasite_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Cedasite_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Chance64_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Chance64_41:
(Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Cherrybomb426_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Cherrybomb426_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Cloudyecho_41 Start: 32701, Stop: 32853, Start Num: 10
Candidate Starts for Cloudyecho_41:
(Start: 10 @32701 has 63 MA's), (12, 32713),

Gene: Coleslaw_41 Start: 31749, Stop: 31901, Start Num: 10
Candidate Starts for Coleslaw_41:
(3, 31515), (Start: 10 @31749 has 63 MA's), (22, 31881),

Gene: Crespo_41 Start: 31759, Stop: 31911, Start Num: 10
Candidate Starts for Crespo_41:
(3, 31525), (Start: 10 @31759 has 63 MA's), (22, 31891),

Gene: DMoney_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for DMoney_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: DNAIII_0040 Start: 30392, Stop: 30544, Start Num: 10
Candidate Starts for DNAIII_0040:
(Start: 10 @30392 has 63 MA's), (22, 30524),

Gene: Darionha_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Darionha_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: DingDing_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for DingDing_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: ECartman_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for ECartman_41:
(Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: FlagStaff_40 Start: 32423, Stop: 32554, Start Num: 13
Candidate Starts for FlagStaff_40:
(2, 32162), (Start: 13 @32423 has 4 MA's),

Gene: Frosty24_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Frosty24_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Gancho_56 Start: 41024, Stop: 41185, Start Num: 7
Candidate Starts for Gancho_56:
(Start: 7 @41024 has 1 MA's), (12, 41045), (17, 41093), (19, 41120), (20, 41150), (22, 41165),

Gene: Gideon_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Gideon_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: GodSpeed_41 Start: 32517, Stop: 32648, Start Num: 14
Candidate Starts for GodSpeed_41:
(2, 32259), (Start: 14 @32517 has 1 MA's),

Gene: GoldenAsh_41 Start: 31743, Stop: 31895, Start Num: 10
Candidate Starts for GoldenAsh_41:
(3, 31509), (Start: 10 @31743 has 63 MA's), (22, 31875),

Gene: Gomashi_41 Start: 31759, Stop: 31911, Start Num: 10
Candidate Starts for Gomashi_41:
(3, 31525), (Start: 10 @31759 has 63 MA's), (22, 31891),

Gene: Grizzly_41 Start: 31743, Stop: 31895, Start Num: 10
Candidate Starts for Grizzly_41:
(3, 31509), (Start: 10 @31743 has 63 MA's), (18, 31809), (22, 31875),

Gene: Halo_41 Start: 31753, Stop: 31905, Start Num: 10
Candidate Starts for Halo_41:
(3, 31519), (Start: 10 @31753 has 63 MA's), (22, 31885),

Gene: Hope_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Hope_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Hotshotbaby7_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Hotshotbaby7_41:
(Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Jane_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Jane_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Jeilious_41 Start: 31757, Stop: 31909, Start Num: 10

Candidate Starts for Jeilious_41:
(3, 31523), (Start: 10 @31757 has 63 MA's), (22, 31889),

Gene: Jolene_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Jolene_41:
(Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Jolie2_40 Start: 31370, Stop: 31513, Start Num: 11
Candidate Starts for Jolie2_40:
(11, 31370), (15, 31385),

Gene: Jonghyun_40 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Jonghyun_40:
(Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: JorRay_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for JorRay_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Kareem_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Kareem_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Kasen3_41 Start: 31744, Stop: 31896, Start Num: 10
Candidate Starts for Kasen3_41:
(3, 31510), (Start: 10 @31744 has 63 MA's), (22, 31876),

Gene: Lemuria_42 Start: 32730, Stop: 32861, Start Num: 14
Candidate Starts for Lemuria_42:
(1, 32439), (5, 32568), (Start: 14 @32730 has 1 MA's),

Gene: Liefie_41 Start: 31756, Stop: 31908, Start Num: 10
Candidate Starts for Liefie_41:
(Start: 10 @31756 has 63 MA's), (22, 31888),

Gene: LouisV14_43 Start: 34023, Stop: 34175, Start Num: 10
Candidate Starts for LouisV14_43:
(3, 33789), (Start: 10 @34023 has 63 MA's), (22, 34155),

Gene: MOOREtheMARYer_42 Start: 32962, Stop: 33117, Start Num: 10
Candidate Starts for MOOREtheMARYer_42:
(Start: 10 @32962 has 63 MA's), (12, 32974),

Gene: MZKinsey_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for MZKinsey_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Maliketh_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Maliketh_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Marmie_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Marmie_41:

(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Mercurio_43 Start: 33230, Stop: 33382, Start Num: 10

Candidate Starts for Mercurio_43:

(Start: 10 @33230 has 63 MA's), (16, 33275), (21, 33350),

Gene: Mowgli_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Mowgli_41:

(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Neoh_41 Start: 31750, Stop: 31902, Start Num: 10

Candidate Starts for Neoh_41:

(3, 31516), (Start: 10 @31750 has 63 MA's), (22, 31882),

Gene: OctaviousRex_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for OctaviousRex_41:

(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Olga_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Olga_41:

(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Pace1224_40 Start: 32423, Stop: 32554, Start Num: 13

Candidate Starts for Pace1224_40:

(2, 32162), (Start: 13 @32423 has 4 MA's),

Gene: Paito_42 Start: 31996, Stop: 32148, Start Num: 10

Candidate Starts for Paito_42:

(4, 31801), (6, 31930), (Start: 10 @31996 has 63 MA's), (22, 32128),

Gene: Peeb_41 Start: 31743, Stop: 31895, Start Num: 10

Candidate Starts for Peeb_41:

(3, 31509), (Start: 10 @31743 has 63 MA's), (22, 31875),

Gene: Periodt_41 Start: 31749, Stop: 31901, Start Num: 10

Candidate Starts for Periodt_41:

(Start: 10 @31749 has 63 MA's), (22, 31881),

Gene: Phish_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Phish_41:

(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Phloodle_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Phloodle_41:

(Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Phreak_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Phreak_41:

(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: PinkYoshi_41 Start: 31749, Stop: 31901, Start Num: 10

Candidate Starts for PinkYoshi_41:

(3, 31515), (Start: 10 @31749 has 63 MA's), (22, 31881),

Gene: Pinnie_40 Start: 32670, Stop: 32822, Start Num: 10
Candidate Starts for Pinnie_40:
(Start: 10 @32670 has 63 MA's), (12, 32682),

Gene: Plagueis_41 Start: 31578, Stop: 31730, Start Num: 10
Candidate Starts for Plagueis_41:
(3, 31344), (Start: 10 @31578 has 63 MA's), (22, 31710),

Gene: Rattrick_41 Start: 31749, Stop: 31901, Start Num: 10
Candidate Starts for Rattrick_41:
(Start: 10 @31749 has 63 MA's), (22, 31881),

Gene: Remy19_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Remy19_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Renaissance_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Renaissance_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Richarlison_41 Start: 31743, Stop: 31895, Start Num: 10
Candidate Starts for Richarlison_41:
(3, 31509), (Start: 10 @31743 has 63 MA's), (22, 31875),

Gene: Ruriko_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Ruriko_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Schiebel_41 Start: 31743, Stop: 31895, Start Num: 10
Candidate Starts for Schiebel_41:
(3, 31509), (Start: 10 @31743 has 63 MA's), (22, 31875),

Gene: ShaboiShabazz_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for ShaboiShabazz_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Sizemore_41 Start: 31744, Stop: 31896, Start Num: 10
Candidate Starts for Sizemore_41:
(3, 31510), (Start: 10 @31744 has 63 MA's), (22, 31876),

Gene: Stargaze_41 Start: 32652, Stop: 32783, Start Num: 13
Candidate Starts for Stargaze_41:
(Start: 13 @32652 has 4 MA's),

Gene: Sweets_41 Start: 31753, Stop: 31905, Start Num: 10
Candidate Starts for Sweets_41:
(3, 31519), (Start: 10 @31753 has 63 MA's), (22, 31885),

Gene: Taheera_40 Start: 31449, Stop: 31601, Start Num: 10
Candidate Starts for Taheera_40:
(4, 31230), (6, 31359), (8, 31440), (Start: 10 @31449 has 63 MA's), (22, 31581),

Gene: Terror_40 Start: 31449, Stop: 31601, Start Num: 10
Candidate Starts for Terror_40:
(4, 31230), (6, 31359), (8, 31440), (Start: 10 @31449 has 63 MA's), (22, 31581),

Gene: TinaBug_41 Start: 31753, Stop: 31905, Start Num: 10
Candidate Starts for TinaBug_41:
(3, 31519), (Start: 10 @31753 has 63 MA's), (22, 31885),

Gene: TomBrady_41 Start: 31759, Stop: 31911, Start Num: 10
Candidate Starts for TomBrady_41:
(3, 31525), (Start: 10 @31759 has 63 MA's), (22, 31891),

Gene: Wendigo_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Wendigo_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: YangYin_41 Start: 32678, Stop: 32809, Start Num: 13
Candidate Starts for YangYin_41:
(Start: 13 @32678 has 4 MA's),

Gene: ZoMa_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for ZoMa_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),

Gene: Zombie_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Zombie_41:
(3, 31524), (Start: 10 @31758 has 63 MA's), (22, 31890),