

Pham 289300



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 289300 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289300 has 88 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 : Sneeze_42, Rabbs_42
- Track 3 : 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 4 : Barkley26_41, Grizzly_41
- Track 5 : Terror_40, Taheera_40
- Track 6 : Paito_42
- Track 7 : Pace1224_40, FlagStaff_40
- Track 8 : Avocado_41
- Track 9 : GodSpeed_41
- Track 10 : Cambiare_42
- Track 11 : Pinnie_40
- Track 12 : MOOREtheMARYer_42
- Track 13 : Cloudyecho_41
- Track 14 : Mercurio_43
- Track 15 : Lemuria_42
- Track 16 : Jolie2_40
- Track 17 : Stargaze_41, YangYin_41
- Track 18 : Antsirabe_40
- Track 19 : 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 64 of the 72 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, GodSpeed_41, GoldenAsh_41, Gomashi_41, Grizzly_41, Halo_41, Hope_41, Hotshotbaby7_41, Jane_41, Jeilious_41, Jolene_41, Jolie2_40, Jonghyun_40, JorRay_41, Kareem_41, Kasen3_41, Lemuria_42, 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:

- Rabbs_42, Sneeze_42,

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

- Antsirabe_40, Avocado_41, Cambiare_42, FlagStaff_40, Gancho_56, Pace1224_40, Stargaze_41, YangYin_41,

Summary by start number:

Start 7:

- Found in 1 of 88 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 72
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gancho_56 (Q),

Start 9:

- Found in 7 of 88 (8.0%) of genes in pham
- Manual Annotations of this start: 5 of 72
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_40 (G5), Avocado_41 (G2), Cambiare_42 (G2), FlagStaff_40 (G2), Pace1224_40 (G2), Stargaze_41 (G5), YangYin_41 (G5),

Start 10:

- Found in 80 of 88 (90.9%) of genes in pham
- Manual Annotations of this start: 64 of 72
- Called 97.5% 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), GodSpeed_41 (G2),

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), Jolie2_40 (G4), Jonghyun_40 (G1), JorRay_41 (G1), Kareem_41 (G1), Kasen3_41 (G1), Lemuria_42 (G4), 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), Zombi_41 (G1),

Start 11:

- Found in 2 of 88 (2.3%) of genes in pham
- Manual Annotations of this start: 2 of 72
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rabbs_42 (G1), Sneeze_42 (G1),

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.
- Start number 11 was manually annotated 2 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 9 was manually annotated 3 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 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 9 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 64 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 64 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 64 MA's), (22, 31881),

Gene: Antsirabe_40 Start: 32314, Stop: 32445, Start Num: 9

Candidate Starts for Antsirabe_40:

(Start: 9 @32314 has 5 MA's),

Gene: Aroostook_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Aroostook_41:

(Start: 10 @31758 has 64 MA's), (22, 31890),

Gene: Avocado_41 Start: 32998, Stop: 33153, Start Num: 9

Candidate Starts for Avocado_41:

(Start: 9 @32998 has 5 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 64 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 64 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 64 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 64 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 64 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 64 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 64 MA's), (22, 31890),

Gene: Cambiare_42 Start: 33265, Stop: 33396, Start Num: 9

Candidate Starts for Cambiare_42:

(Start: 9 @33265 has 5 MA's),

Gene: Camri_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Camri_41:

(3, 31524), (Start: 10 @31758 has 64 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 64 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 64 MA's), (22, 31890),

Gene: Chance64_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Chance64_41:
(Start: 10 @31758 has 64 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 64 MA's), (22, 31890),

Gene: Cloudyecho_41 Start: 32701, Stop: 32853, Start Num: 10
Candidate Starts for Cloudyecho_41:
(Start: 10 @32701 has 64 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 64 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 64 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 64 MA's), (22, 31890),

Gene: DNAIII_0040 Start: 30392, Stop: 30544, Start Num: 10
Candidate Starts for DNAIII_0040:
(Start: 10 @30392 has 64 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 64 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 64 MA's), (22, 31890),

Gene: ECartman_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for ECartman_41:
(Start: 10 @31758 has 64 MA's), (22, 31890),

Gene: FlagStaff_40 Start: 32423, Stop: 32554, Start Num: 9
Candidate Starts for FlagStaff_40:
(2, 32162), (Start: 9 @32423 has 5 MA's),

Gene: Frosty24_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Frosty24_41:

(3, 31524), (Start: 10 @31758 has 64 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 64 MA's), (22, 31890),

Gene: GodSpeed_41 Start: 32517, Stop: 32648, Start Num: 10

Candidate Starts for GodSpeed_41:

(2, 32259), (Start: 10 @32517 has 64 MA's),

Gene: GoldenAsh_41 Start: 31743, Stop: 31895, Start Num: 10

Candidate Starts for GoldenAsh_41:

(3, 31509), (Start: 10 @31743 has 64 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 64 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 64 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 64 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 64 MA's), (22, 31890),

Gene: Hotshotbaby7_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Hotshotbaby7_41:

(Start: 10 @31758 has 64 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 64 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 64 MA's), (22, 31889),

Gene: Jolene_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for Jolene_41:

(Start: 10 @31758 has 64 MA's), (22, 31890),

Gene: Jolie2_40 Start: 31370, Stop: 31513, Start Num: 10

Candidate Starts for Jolie2_40:
(Start: 10 @31370 has 64 MA's), (13, 31385),

Gene: Jonghyun_40 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Jonghyun_40:
(Start: 10 @31758 has 64 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 64 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 64 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 64 MA's), (22, 31876),

Gene: Lemuria_42 Start: 32730, Stop: 32861, Start Num: 10
Candidate Starts for Lemuria_42:
(1, 32439), (5, 32568), (Start: 10 @32730 has 64 MA's),

Gene: Liefie_41 Start: 31756, Stop: 31908, Start Num: 10
Candidate Starts for Liefie_41:
(Start: 10 @31756 has 64 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 64 MA's), (22, 34155),

Gene: MOOREtheMARYer_42 Start: 32962, Stop: 33117, Start Num: 10
Candidate Starts for MOOREtheMARYer_42:
(Start: 10 @32962 has 64 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 64 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 64 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 64 MA's), (22, 31890),

Gene: Mercurio_43 Start: 33230, Stop: 33382, Start Num: 10
Candidate Starts for Mercurio_43:
(Start: 10 @33230 has 64 MA's), (15, 33275), (21, 33350),

Gene: Mowgli_41 Start: 31758, Stop: 31910, Start Num: 10
Candidate Starts for Mowgli_41:

(3, 31524), (Start: 10 @31758 has 64 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 64 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 64 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 64 MA's), (22, 31890),

Gene: Pace1224_40 Start: 32423, Stop: 32554, Start Num: 9

Candidate Starts for Pace1224_40:

(2, 32162), (Start: 9 @32423 has 5 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 64 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 64 MA's), (22, 31875),

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

Candidate Starts for Periodt_41:

(Start: 10 @31749 has 64 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 64 MA's), (22, 31890),

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

Candidate Starts for Phloodle_41:

(Start: 10 @31758 has 64 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 64 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 64 MA's), (22, 31881),

Gene: Pinnie_40 Start: 32670, Stop: 32822, Start Num: 10

Candidate Starts for Pinnie_40:

(Start: 10 @32670 has 64 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 64 MA's), (22, 31710),

Gene: Rabbs_42 Start: 31925, Stop: 32098, Start Num: 11
Candidate Starts for Rabbs_42:
(4, 31703), (6, 31832), (Start: 10 @31922 has 64 MA's), (Start: 11 @31925 has 2 MA's), (14, 31958),
(15, 31970), (16, 31982), (22, 32078),

Gene: Rattrick_41 Start: 31749, Stop: 31901, Start Num: 10
Candidate Starts for Rattrick_41:
(Start: 10 @31749 has 64 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 64 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 64 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 64 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 64 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 64 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 64 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 64 MA's), (22, 31876),

Gene: Sneeze_42 Start: 31924, Stop: 32097, Start Num: 11
Candidate Starts for Sneeze_42:
(4, 31702), (6, 31831), (Start: 10 @31921 has 64 MA's), (Start: 11 @31924 has 2 MA's), (14, 31957),
(15, 31969), (16, 31981), (22, 32077),

Gene: Stargaze_41 Start: 32652, Stop: 32783, Start Num: 9
Candidate Starts for Stargaze_41:
(Start: 9 @32652 has 5 MA's),

Gene: Sweets_41 Start: 31753, Stop: 31905, Start Num: 10
Candidate Starts for Sweets_41:
(3, 31519), (Start: 10 @31753 has 64 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 64 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 64 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 64 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 64 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 64 MA's), (22, 31890),

Gene: YangYin_41 Start: 32678, Stop: 32809, Start Num: 9

Candidate Starts for YangYin_41:

(Start: 9 @32678 has 5 MA's),

Gene: ZoMa_41 Start: 31758, Stop: 31910, Start Num: 10

Candidate Starts for ZoMa_41:

(3, 31524), (Start: 10 @31758 has 64 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 64 MA's), (22, 31890),