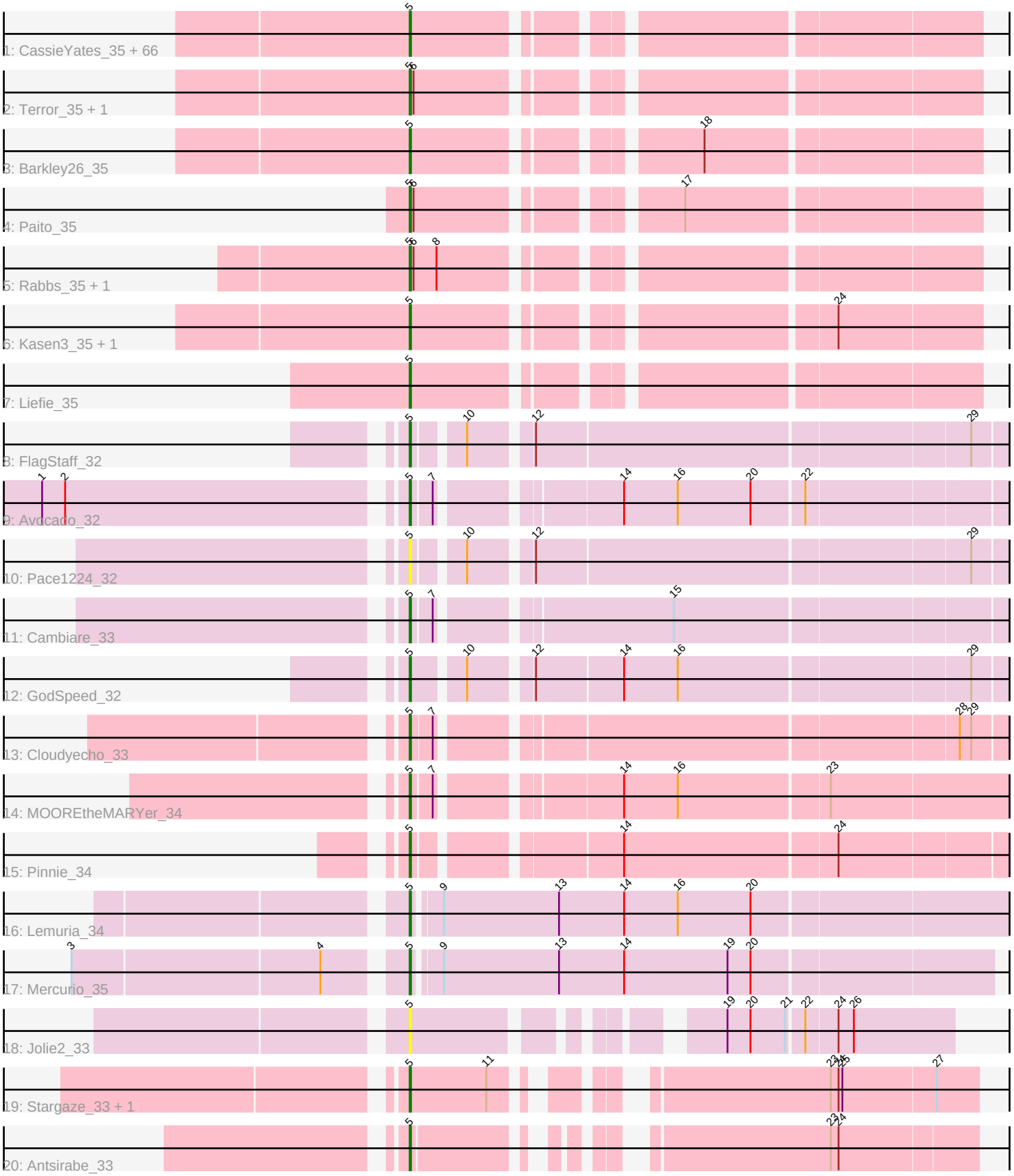
Pham 347486


1: CassieYates_35 + 66
2: Terror_35 + 1
3: Barkley26_35
4: Paito_35
5: Rabbs_35 + 1
6: Kasen3_35 + 1
7: Liefie_35
8: FlagStaff_32
9: Avocado_32
10: Pace1224_32
11: Cambiare_33
12: GodSpeed_32
13: Cloudyecho_33
14: MOOREtheMARYer_34
15: Pinnie_34
16: Lemuria_34
17: Mercurio_35
18: Jolie2_33
19: Stargaze_33 + 1
20: Antsirabe_33

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 347486 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347486 has 90 members, 6 are drafts.

Phages represented in each track:
• Track 1 : CassieYates_35, Terralys_34, ForeverHowLong_35, TinaBug_35, Angel_35, BruceB_35, Coleslaw_35, Richarlison_35, Sweets_35, Halo_35, DNAIII_0034, GoldenAsh_35, Annihilator_35, AzulaCat_35, Maliketh_35, BPs_35, Kareem_35, Phloodle_35, Jeilious_35, Frosty24_35, ShaboiShabazz_35, Cherrybomb426_35, Neoh_35, DingDing_35, Cedasite_35, LouisV14_37, Plagueis_35, Primanti_35, Grizzly_35, Aroostook_35, Jane_35, Hope_35, Zombie_35, Peeb_35, MZKinsey_35, Crespo_35, Darionha_35, Mowgli_35, TomBrady_35, Chance64_35, ECartman_35, DMoney_35, Marmie_35, OctaviousRex_35, Ruriko_35, Wendigo_35, Renaissance_35, Camri_35, JorRay_35, Gideon_35, Phreak_35, BQuat_35, Remy19_35, CLED96_35, Periodt_35, Avrafan_35, AizenPogi_35, Jonghyun_35, ZoMa_35, Gomashi_35, Schiebel_35, PinkYoshi_35, Hotshotbaby7_35, Olga_35, Jolene_35, Phish_35, Rattrick_35
• Track 2 : Terror_35, Taheera_35
• Track 3 : Barkley26_35
• Track 4 : Paito_35
• Track 5 : Rabbs_35, Sneeze_35
• Track 6 : Kasen3_35, Sizemore_35
• Track 7 : Liefie_35
• Track 8 : FlagStaff_32
• Track 9 : Avocado_32
• Track 10 : Pace1224_32
• Track 11 : Cambiare_33
• Track 12 : GodSpeed_32
• Track 13 : Cloudyecho_33
• Track 14 : MOOREtheMARYer_34
• Track 15 : Pinnie_34
• Track 16 : Lemuria_34
• Track 17 : Mercurio_35
• Track 18 : Jolie2_33
• Track 19 : Stargaze_33, YangYin_33
• Track 20 : Antsirabe_33

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

The start number called the most often in the published annotations is 5, it was called in 84 of the 84 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AizenPogi_35, Angel_35, Annihilator_35, Antsirabe_33, Aroostook_35, Avocado_32, Avrafan_35, AzulaCat_35, BPs_35, BQuat_35, Barkley26_35, BruceB_35, CLED96_35, Cambiare_33, Camri_35, CassieYates_35, Cedasite_35, Chance64_35, Cherrybomb426_35, Cloudyecho_33, Coleslaw_35, Crespo_35, DMoney_35, DNAIII_0034, Darionha_35, DingDing_35, ECartman_35, FlagStaff_32, ForeverHowLong_35, Frosty24_35, Gideon_35, GodSpeed_32, GoldenAsh_35, Gomashi_35, Grizzly_35, Halo_35, Hope_35, Hotshotbaby7_35, Jane_35, Jeilious_35, Jolene_35, Jolie2_33, Jonghyun_35, JorRay_35, Kareem_35, Kasen3_35, Lemuria_34, Liefie_35, LouisV14_37, MOOREtheMARYer_34, MZKinsey_35, Maliketh_35, Marmie_35, Mercurio_35, Mowgli_35, Neoh_35, OctaviousRex_35, Olga_35, Pace1224_32, Paito_35, Peeb_35, Periodt_35, Phish_35, Phloodle_35, Phreak_35, PinkYoshi_35, Pinnie_34, Plagueis_35, Primanti_35, Rabbs_35, Rattrick_35, Remy19_35, Renaissance_35, Richarlison_35, Ruriko_35, Schiebel_35, ShaboiShabazz_35, Sizemore_35, Sneeze_35, Stargaze_33, Sweets_35, Taheera_35, Terralys_34, Terror_35, TinaBug_35, TomBrady_35, Wendigo_35, YangYin_33, ZoMa_35, Zombie_35,

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

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

Summary by start number:

Start 5:
• Found in 90 of 90 (100.0%) of genes in pham
• Manual Annotations of this start: 84 of 84
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AizenPogi_35 (G1), Angel_35 (G1), Annihilator_35 (G1), Antsirabe_33 (G5), Aroostook_35 (G1), Avocado_32 (G2), Avrafan_35 (G1), AzulaCat_35 (G1), BPs_35 (G1), BQuat_35 (G1), Barkley26_35 (G1), BruceB_35 (G1), CLED96_35 (G1), Cambiare_33 (G2), Camri_35 (G1), CassieYates_35 (G1), Cedasite_35 (G1), Chance64_35 (G1), Cherrybomb426_35 (G1), Cloudyecho_33 (G3), Coleslaw_35 (G1), Crespo_35 (G1), DMoney_35 (G1), DNAIII_0034 (G1), Darionha_35 (G1), DingDing_35 (G1), ECartman_35 (G1), FlagStaff_32 (G2), ForeverHowLong_35 (G1), Frosty24_35 (G1), Gideon_35 (G1), GodSpeed_32 (G2), GoldenAsh_35 (G1), Gomashi_35 (G1), Grizzly_35 (G1), Halo_35 (G1), Hope_35 (G1), Hotshotbaby7_35 (G1), Jane_35 (G1), Jeilious_35 (G), Jolene_35 (G1), Jolie2_33 (G4), Jonghyun_35 (G1), JorRay_35 (G1), Kareem_35 (G1), Kasen3_35 (G1), Lemuria_34 (G4), Liefie_35 (G1), LouisV14_37 (G1), MOOREtheMARYer_34 (G3), MZKinsey_35 (G1), Maliketh_35 (G1), Marmie_35 (G1), Mercurio_35 (G4), Mowgli_35 (G1), Neoh_35 (G), OctaviousRex_35 (G1), Olga_35 (G1), Pace1224_32 (G2), Paito_35 (G1), Peeb_35 (G1), Periodt_35 (G1), Phish_35 (G1), Phloodle_35 (G1), Phreak_35 (G1), PinkYoshi_35 (G1), Pinnie_34 (G3), Plagueis_35 (G1), Primanti_35 (G1), Rabbs_35 (G1), Rattrick_35 (G1), Remy19_35 (G1), Renaissance_35 (G1), Richarlison_35 (G1), Ruriko_35 (G1), Schiebel_35 (G1), ShaboiShabazz_35 (G1), Sizemore_35 (G1), Sneeze_35 (G1), Stargaze_33 (G5), Sweets_35 (G1), Taheera_35 (G1), Terralys_34 (G1), Terror_35

(G1), TinaBug_35 (G1), TomBrady_35 (G1), Wendigo_35 (G1), YangYin_33 (G5), ZoMa_35 (G1), Zombie_35 (G1),

Summary by clusters:

There are 6 clusters represented in this pham: G5, G4, G3, G1, G, G2,

Info for manual annotations of cluster G:
•Start number 5 was manually annotated 2 times for cluster G.

Info for manual annotations of cluster G1:
•Start number 5 was manually annotated 70 times for cluster G1.

Info for manual annotations of cluster G2:
•Start number 5 was manually annotated 4 times for cluster G2.

Info for manual annotations of cluster G3:
•Start number 5 was manually annotated 3 times for cluster G3.

Info for manual annotations of cluster G4:
•Start number 5 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:
•Start number 5 was manually annotated 3 times for cluster G5.

Gene Information:

Gene: AizenPogi_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for AizenPogi_35:
(Start: 5 @29752 has 84 MA's),

Gene: Angel_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Angel_35:
(Start: 5 @29752 has 84 MA's),

Gene: Annihilator_35 Start: 29743, Stop: 30141, Start Num: 5
Candidate Starts for Annihilator_35:
(Start: 5 @29743 has 84 MA's),

Gene: Antsirabe_33 Start: 29804, Stop: 30169, Start Num: 5
Candidate Starts for Antsirabe_33:
(Start: 5 @29804 has 84 MA's), (23, 30059), (24, 30065),

Gene: Aroostook_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Aroostook_35:
(Start: 5 @29752 has 84 MA's),

Gene: Avocado_32 Start: 29799, Stop: 30224, Start Num: 5
Candidate Starts for Avocado_32:
(1, 29535), (2, 29553), (Start: 5 @29799 has 84 MA's), (7, 29814), (14, 29937), (16, 29979), (20, 30036), (22, 30075),

Gene: Avrafan_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Avrafan_35:
(Start: 5 @29752 has 84 MA's),

Gene: AzulaCat_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for AzulaCat_35:
(Start: 5 @29752 has 84 MA's),

Gene: BPs_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for BPs_35:
(Start: 5 @29752 has 84 MA's),

Gene: BQuat_35 Start: 29743, Stop: 30141, Start Num: 5
Candidate Starts for BQuat_35:
(Start: 5 @29743 has 84 MA's),

Gene: Barkley26_35 Start: 29774, Stop: 30172, Start Num: 5
Candidate Starts for Barkley26_35:
(Start: 5 @29774 has 84 MA's), (18, 29966),

Gene: BruceB_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for BruceB_35:
(Start: 5 @29752 has 84 MA's),

Gene: CLED96_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for CLED96_35:
(Start: 5 @29752 has 84 MA's),

Gene: Cambiare_33 Start: 30266, Stop: 30694, Start Num: 5
Candidate Starts for Cambiare_33:
(Start: 5 @30266 has 84 MA's), (7, 30281), (15, 30446),

Gene: Camri_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Camri_35:
(Start: 5 @29752 has 84 MA's),

Gene: CassieYates_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for CassieYates_35:
(Start: 5 @29752 has 84 MA's),

Gene: Cedasite_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Cedasite_35:
(Start: 5 @29752 has 84 MA's),

Gene: Chance64_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Chance64_35:
(Start: 5 @29752 has 84 MA's),

Gene: Cherrybomb426_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Cherrybomb426_35:
(Start: 5 @29752 has 84 MA's),

Gene: Cloudyecho_33 Start: 29987, Stop: 30412, Start Num: 5
Candidate Starts for Cloudyecho_33:
(Start: 5 @29987 has 84 MA's), (7, 30002), (28, 30377), (29, 30386),

Gene: Coleslaw_35 Start: 29743, Stop: 30141, Start Num: 5
Candidate Starts for Coleslaw_35:
(Start: 5 @29743 has 84 MA's),

Gene: Crespo_35 Start: 29753, Stop: 30151, Start Num: 5
Candidate Starts for Crespo_35:
(Start: 5 @29753 has 84 MA's),

Gene: DMoney_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for DMoney_35:
(Start: 5 @29752 has 84 MA's),

Gene: DNAIII_0034 Start: 28386, Stop: 28784, Start Num: 5
Candidate Starts for DNAIII_0034:
(Start: 5 @28386 has 84 MA's),

Gene: Darionha_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Darionha_35:
(Start: 5 @29752 has 84 MA's),

Gene: DingDing_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for DingDing_35:
(Start: 5 @29752 has 84 MA's),

Gene: ECartman_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for ECartman_35:
(Start: 5 @29752 has 84 MA's),

Gene: FlagStaff_32 Start: 29586, Stop: 30014, Start Num: 5
Candidate Starts for FlagStaff_32:
(Start: 5 @29586 has 84 MA's), (10, 29619), (12, 29661), (29, 29988),

Gene: ForeverHowLong_35 Start: 29747, Stop: 30145, Start Num: 5
Candidate Starts for ForeverHowLong_35:
(Start: 5 @29747 has 84 MA's),

Gene: Frosty24_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Frosty24_35:
(Start: 5 @29752 has 84 MA's),

Gene: Gideon_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Gideon_35:
(Start: 5 @29752 has 84 MA's),

Gene: GodSpeed_32 Start: 29609, Stop: 30040, Start Num: 5
Candidate Starts for GodSpeed_32:
(Start: 5 @29609 has 84 MA's), (10, 29645), (12, 29687), (14, 29753), (16, 29795), (29, 30014),

Gene: GoldenAsh_35 Start: 29752, Stop: 30150, Start Num: 5

Candidate Starts for GoldenAsh_35:
(Start: 5 @29752 has 84 MA's),

Gene: Gomashi_35 Start: 29753, Stop: 30151, Start Num: 5
Candidate Starts for Gomashi_35:
(Start: 5 @29753 has 84 MA's),

Gene: Grizzly_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Grizzly_35:
(Start: 5 @29752 has 84 MA's),

Gene: Halo_35 Start: 29747, Stop: 30145, Start Num: 5
Candidate Starts for Halo_35:
(Start: 5 @29747 has 84 MA's),

Gene: Hope_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Hope_35:
(Start: 5 @29752 has 84 MA's),

Gene: Hotshotbaby7_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Hotshotbaby7_35:
(Start: 5 @29752 has 84 MA's),

Gene: Jane_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Jane_35:
(Start: 5 @29752 has 84 MA's),

Gene: Jeilious_35 Start: 29751, Stop: 30149, Start Num: 5
Candidate Starts for Jeilious_35:
(Start: 5 @29751 has 84 MA's),

Gene: Jolene_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Jolene_35:
(Start: 5 @29752 has 84 MA's),

Gene: Jolie2_33 Start: 28664, Stop: 29023, Start Num: 5
Candidate Starts for Jolie2_33:
(Start: 5 @28664 has 84 MA's), (19, 28853), (20, 28871), (21, 28898), (22, 28910), (24, 28934), (26, 28946),

Gene: Jonghyun_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Jonghyun_35:
(Start: 5 @29752 has 84 MA's),

Gene: JorRay_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for JorRay_35:
(Start: 5 @29752 has 84 MA's),

Gene: Kareem_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Kareem_35:
(Start: 5 @29752 has 84 MA's),

Gene: Kasen3_35 Start: 29753, Stop: 30151, Start Num: 5

Candidate Starts for Kasen3_35:
(Start: 5 @29753 has 84 MA's), (24, 30041),

Gene: Lemuria_34 Start: 29730, Stop: 30224, Start Num: 5
Candidate Starts for Lemuria_34:
(Start: 5 @29730 has 84 MA's), (9, 29748), (13, 29838), (14, 29889), (16, 29931), (20, 29988),

Gene: Liefie_35 Start: 29750, Stop: 30148, Start Num: 5
Candidate Starts for Liefie_35:
(Start: 5 @29750 has 84 MA's),

Gene: LouisV14_37 Start: 32017, Stop: 32415, Start Num: 5
Candidate Starts for LouisV14_37:
(Start: 5 @32017 has 84 MA's),

Gene: MOOREtheMARYer_34 Start: 30081, Stop: 30512, Start Num: 5
Candidate Starts for MOOREtheMARYer_34:
(Start: 5 @30081 has 84 MA's), (7, 30096), (14, 30219), (16, 30261), (23, 30375),

Gene: MZKinsey_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for MZKinsey_35:
(Start: 5 @29752 has 84 MA's),

Gene: Maliketh_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Maliketh_35:
(Start: 5 @29752 has 84 MA's),

Gene: Marmie_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Marmie_35:
(Start: 5 @29752 has 84 MA's),

Gene: Mercurio_35 Start: 30249, Stop: 30689, Start Num: 5
Candidate Starts for Mercurio_35:
(3, 30009), (4, 30198), (Start: 5 @30249 has 84 MA's), (9, 30267), (13, 30357), (14, 30408), (19, 30489), (20, 30507),

Gene: Mowgli_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Mowgli_35:
(Start: 5 @29752 has 84 MA's),

Gene: Neoh_35 Start: 29744, Stop: 30142, Start Num: 5
Candidate Starts for Neoh_35:
(Start: 5 @29744 has 84 MA's),

Gene: OctaviousRex_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for OctaviousRex_35:
(Start: 5 @29752 has 84 MA's),

Gene: Olga_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Olga_35:
(Start: 5 @29752 has 84 MA's),

Gene: Pace1224_32 Start: 29586, Stop: 30014, Start Num: 5

Candidate Starts for Pace1224_32:
(Start: 5 @29586 has 84 MA's), (10, 29619), (12, 29661), (29, 29988),

Gene: Paito_35 Start: 29933, Stop: 30331, Start Num: 5
Candidate Starts for Paito_35:
(Start: 5 @29933 has 84 MA's), (6, 29936), (17, 30110),

Gene: Peeb_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Peeb_35:
(Start: 5 @29752 has 84 MA's),

Gene: Periodt_35 Start: 29743, Stop: 30141, Start Num: 5
Candidate Starts for Periodt_35:
(Start: 5 @29743 has 84 MA's),

Gene: Phish_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Phish_35:
(Start: 5 @29752 has 84 MA's),

Gene: Phloodle_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Phloodle_35:
(Start: 5 @29752 has 84 MA's),

Gene: Phreak_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Phreak_35:
(Start: 5 @29752 has 84 MA's),

Gene: PinkYoshi_35 Start: 29743, Stop: 30141, Start Num: 5
Candidate Starts for PinkYoshi_35:
(Start: 5 @29743 has 84 MA's),

Gene: Pinnie_34 Start: 30452, Stop: 30880, Start Num: 5
Candidate Starts for Pinnie_34:
(Start: 5 @30452 has 84 MA's), (14, 30593), (24, 30755),

Gene: Plagueis_35 Start: 29587, Stop: 29985, Start Num: 5
Candidate Starts for Plagueis_35:
(Start: 5 @29587 has 84 MA's),

Gene: Primanti_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Primanti_35:
(Start: 5 @29752 has 84 MA's),

Gene: Rabbs_35 Start: 29835, Stop: 30233, Start Num: 5
Candidate Starts for Rabbs_35:
(Start: 5 @29835 has 84 MA's), (6, 29838), (8, 29856),

Gene: Rattrick_35 Start: 29743, Stop: 30141, Start Num: 5
Candidate Starts for Rattrick_35:
(Start: 5 @29743 has 84 MA's),

Gene: Remy19_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Remy19_35:

(Start: 5 @29752 has 84 MA's),

Gene: Renaissance_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Renaissance_35:
(Start: 5 @29752 has 84 MA's),

Gene: Richarlison_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Richarlison_35:
(Start: 5 @29752 has 84 MA's),

Gene: Ruriko_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Ruriko_35:
(Start: 5 @29752 has 84 MA's),

Gene: Schiebel_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Schiebel_35:
(Start: 5 @29752 has 84 MA's),

Gene: ShaboiShabazz_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for ShaboiShabazz_35:
(Start: 5 @29752 has 84 MA's),

Gene: Sizemore_35 Start: 29753, Stop: 30151, Start Num: 5
Candidate Starts for Sizemore_35:
(Start: 5 @29753 has 84 MA's), (24, 30041),

Gene: Sneeze_35 Start: 29834, Stop: 30232, Start Num: 5
Candidate Starts for Sneeze_35:
(Start: 5 @29834 has 84 MA's), (6, 29837), (8, 29855),

Gene: Stargaze_33 Start: 29835, Stop: 30212, Start Num: 5
Candidate Starts for Stargaze_33:
(Start: 5 @29835 has 84 MA's), (11, 29895), (23, 30099), (24, 30105), (25, 30108), (27, 30180),

Gene: Sweets_35 Start: 29747, Stop: 30145, Start Num: 5
Candidate Starts for Sweets_35:
(Start: 5 @29747 has 84 MA's),

Gene: Taheera_35 Start: 29870, Stop: 30268, Start Num: 5
Candidate Starts for Taheera_35:
(Start: 5 @29870 has 84 MA's), (6, 29873),

Gene: Terralys_34 Start: 29686, Stop: 30084, Start Num: 5
Candidate Starts for Terralys_34:
(Start: 5 @29686 has 84 MA's),

Gene: Terror_35 Start: 29870, Stop: 30268, Start Num: 5
Candidate Starts for Terror_35:
(Start: 5 @29870 has 84 MA's), (6, 29873),

Gene: TinaBug_35 Start: 29747, Stop: 30145, Start Num: 5
Candidate Starts for TinaBug_35:
(Start: 5 @29747 has 84 MA's),

Gene: TomBrady_35 Start: 29753, Stop: 30151, Start Num: 5
Candidate Starts for TomBrady_35:
(Start: 5 @29753 has 84 MA's),

Gene: Wendigo_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Wendigo_35:
(Start: 5 @29752 has 84 MA's),

Gene: YangYin_33 Start: 29861, Stop: 30238, Start Num: 5
Candidate Starts for YangYin_33:
(Start: 5 @29861 has 84 MA's), (11, 29921), (23, 30125), (24, 30131), (25, 30134), (27, 30206),

Gene: ZoMa_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for ZoMa_35:
(Start: 5 @29752 has 84 MA's),

Gene: Zombie_35 Start: 29752, Stop: 30150, Start Num: 5
Candidate Starts for Zombie_35:
(Start: 5 @29752 has 84 MA's),