

Pham 157688



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 157688 Report

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

Pham number 157688 has 130 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Swole_2, Agaliana_2
- Track 2 : HanShotFirst_2
- Track 3 : Espresso_2
- Track 4 : Pelly_2
- Track 5 : Mabel_4
- Track 6 : Oofda_4
- Track 7 : SoYo_1
- Track 8 : ACFishhook_1
- Track 9 : Blackmoor_1, LittleGuy_1, Druantia_1, ICleared_1, Avle17_1, Taquarus_1, Cocoaberry_1, Holli_1, Pipcraft_1, Polymorphads_1, Kampy_1, Palestino_1, Medusa_1, Wizard007_1, Melvin_1, Annyong_1, Houdini22_1, Lorenzo_1, Phontbonne_1, Iracema64_1, Nemo27_1, TroyPia_1, Ohfah_1, Shygu2_1, BubbleTrouble_1, Broseidon_1, OKaNui_1, Sabertooth_1, Koreni_1, Millski_1, Citius_1, Jaykayelowell_1, Clarenza_1, JetBlade_1, CentreCat_1, Lemur_1, Cintron_1, Ruin_1, Romney_1, Sparxx_1, Eapen_1, Nebs_1, NotAPhaseMom_1, Arturo_86, Iceman_1, Florean_1, Kyee_1, Maxo_1, Connomayer_1, Kratak_1, TygerBlood_1, Nyxis_1, Skipitt_1, Bartimeaus_1, Relief_1, Eris_1, Alberto7_1, Chaph_1, Mazhar510_1, Flux_1, Spino_1, Roosevelt_1, TinaFeyge_1, Eros_1, Funston_1, Gadost_1, Albee_1, Eurydice_1, Thanksgivukkah_1, Bombshell_1, NorthStar_1, LittleB_1, Scamp_1, BellusTerra_1, Morrow_1, Baby16_1, JoongJeon_1, KFPoly_1, Happiness_1, Deano_1, YoSam321_1, Wilbur_1, Dhanush_1, Wander_1, Abdiel_1, PeterPeter_1, Bruiser_1, Phacado_1, Kingmustik0402_1, Camperdownii_1
- Track 10 : SheldonCooper_1
- Track 11 : Stasia_1
- Track 12 : Phighter1804_1, Pumbaa_1, LochMonster_1
- Track 13 : Morpher26_1, Xena_1, Badger_1, Datway_1, PetiteSangsue_1, Cici_1, Wile_1, Katalie136_1, Achebe_1, Perplexer_1, AbbysRanger_1, Bumblebee11_1
- Track 14 : Obama12_1
- Track 15 : AvatarAhPeg_1, Miramae_1
- Track 16 : Noelle_1
- Track 17 : DirtyDunning_1
- Track 18 : Mundrea_1
- Track 19 : Jstan_70
- Track 20 : Puginator_4
- Track 21 : PotPie_70
- Track 22 : Zareef_70

- Track 23 : PsychoKiller_68, Elliott_69, RedBaron_75
- Track 24 : KayGee_73

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

The start number called the most often in the published annotations is 20, it was called in 115 of the 117 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ACFishhook_1, AbbysRanger_1, Abdiel_1, Achebe_1, Albee_1, Alberto7_1, Annyong_1, Arturo_86, AvatarAhPeg_1, Avle17_1, Baby16_1, Badger_1, Bartimeaus_1, BellusTerra_1, Blackmoor_1, Bombshell_1, Broseidon_1, Bruiser_1, BubbleTrouble_1, Bumblebee11_1, Camperdownii_1, CentreCat_1, Chaph_1, Cici_1, Cintron_1, Citius_1, Clarenza_1, Cocoaberry_1, Connomayer_1, Datway_1, Deano_1, Dhanush_1, DirtyDunning_1, Druantia_1, Eapen_1, Eris_1, Eros_1, Eurydice_1, Florean_1, Flux_1, Funston_1, Gadost_1, Happiness_1, Holli_1, Houdini22_1, ICleared_1, Iceman_1, Iracema64_1, Jaykayelowell_1, JetBlade_1, JoongJeon_1, KFPoly_1, Kampy_1, Katalie136_1, KayGee_73, Kingmustik0402_1, Koreni_1, Kratak_1, Kyee_1, Lemur_1, LittleB_1, LittleGuy_1, LochMonster_1, Lorenzo_1, Maxo_1, Mazhar510_1, Medusa_1, Melvin_1, Millski_1, Miramae_1, Morpher26_1, Morrow_1, Mundrea_1, Nebs_1, Nemo27_1, Noelle_1, NorthStar_1, NotAPhaseMom_1, Nyxis_1, OKaNui_1, Obama12_1, Ohfah_1, Palestino_1, Perplexer_1, PeterPeter_1, PetiteSangsue_1, Phacado_1, Phighter1804_1, Phontbonne_1, Pipcraft_1, Polymorphads_1, Puginator_4, Pumbaa_1, Relief_1, Romney_1, Roosevelt_1, Ruin_1, Sabertooth_1, Scamp_1, SheldonCooper_1, Shygu2_1, Skipitt_1, SoYo_1, Sparxx_1, Spino_1, Stasia_1, Taquarus_1, Thanksgivukkah_1, TinaFeyge_1, TroyPia_1, TygerBlood_1, Wander_1, Wilbur_1, Wile_1, Wizard007_1, Xena_1, YoSam321_1,

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

- Jstan_70,

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

- Agaliana_2, Elliott_69, Espresso_2, HanShotFirst_2, Mabel_4, Oofda_4, Pelly_2, PotPie_70, PsychoKiller_68, RedBaron_75, Swole_2, Zareef_70,

Summary by start number:

Start 19:

- Found in 1 of 130 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jstan_70 (AZ1),

Start 20:

- Found in 118 of 130 (90.8%) of genes in pham
- Manual Annotations of this start: 115 of 117
- Called 99.2% of time when present
- Phage (with cluster) where this start called: ACFishhook_1 (A3), AbbysRanger_1 (A4), Abdiel_1 (A4), Achebe_1 (A4), Albee_1 (A4), Alberto7_1 (A4), Annyong_1 (A4),

Arturo_86 (A4), AvatarAhPeg_1 (A4), Avle17_1 (A4), Baby16_1 (A4), Badger_1 (A4), Bartimeaus_1 (A4), BellusTerra_1 (A4), Blackmoor_1 (A4), Bombshell_1 (A4), Broseidon_1 (A4), Bruiser_1 (A4), BubbleTrouble_1 (A4), Bumblebee11_1 (A4), Camperdownii_1 (A4), CentreCat_1 (A4), Chaph_1 (A4), Cici_1 (A4), Cintron_1 (A4), Citius_1 (A4), Clarenza_1 (A4), Cocoaberry_1 (A4), Connomayer_1 (A4), Datway_1 (A4), Deano_1 (A4), Dhanush_1 (A4), DirtyDunning_1 (A4), Druantia_1 (A4), Eapen_1 (A4), Eris_1 (A4), Eros_1 (A4), Eurydice_1 (A4), Florean_1 (A4), Flux_1 (A4), Funston_1 (A4), Gadost_1 (A4), Happiness_1 (A4), Holli_1 (A4), Houdini22_1 (A4), ICleared_1 (A4), Iceman_1 (A4), Iracema64_1 (A4), Jaykayelowell_1 (A4), JetBlade_1 (A4), JoongJeon_1 (A4), KFPoly_1 (A4), Kampy_1 (A4), Katalie136_1 (A4), KayGee_73 (CT), Kingmustik0402_1 (A4), Koreni_1 (A4), Kratark_1 (A4), Kyee_1 (A4), Lemur_1 (A4), LittleB_1 (A4), LittleGuy_1 (A4), LochMonster_1 (A4), Lorenzo_1 (A4), Maxo_1 (A4), Mazhar510_1 (A4), Medusa_1 (A4), Melvin_1 (A4), Millski_1 (A4), Miramae_1 (A4), Morpher26_1 (A4), Morrow_1 (A4), Mundrea_1 (A4), Nebs_1 (A4), Nemo27_1 (A4), Noelle_1 (A4), NorthStar_1 (A4), NotAPhaseMom_1 (A4), Nyxis_1 (A4), OKaNui_1 (A4), Obama12_1 (A4), Ohfah_1 (A4), Palestino_1 (A4), Perplexer_1 (A4), PeterPeter_1 (A4), PetiteSangsue_1 (A4), Phacado_1 (A4), Phighter1804_1 (A4), Phontbonne_1 (A4), Pipcraft_1 (A4), Polymorphads_1 (A4), Puginator_4 (BD2), Pumbaa_1 (A4), Relief_1 (A4), Romney_1 (A4), Roosevelt_1 (A4), Ruin_1 (A4), Sabertooth_1 (A4), Scamp_1 (A4), SheldonCooper_1 (A4), Shygu2_1 (A4), Skipitt_1 (A4), SoYo_1 (A3), Sparxx_1 (A4), Spino_1 (A4), Stasia_1 (A4), Taquarus_1 (A4), Thanksgivukkah_1 (A4), TinaFeyge_1 (A4), TroyPia_1 (A4), TygerBlood_1 (A4), Wander_1 (A4), Wilbur_1 (A4), Wile_1 (A4), Wizard007_1 (A4), Xena_1 (A4), YoSam321_1 (A4),

Start 21:

- Found in 1 of 130 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PotPie_70 (CT),

Start 22:

- Found in 2 of 130 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 117
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mabel_4 (A11), Oofda_4 (A15),

Start 24:

- Found in 3 of 130 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elliott_69 (CT), PsychoKiller_68 (CT), RedBaron_75 (CT),

Start 26:

- Found in 5 of 130 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 117
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agaliana_2 (A1), Espresso_2 (A1), HanShotFirst_2 (A1), Pelly_2 (A1), Swole_2 (A1),

Start 28:

- Found in 1 of 130 (0.8%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zareef_70 (CT),

Summary by clusters:

There are 8 clusters represented in this pham: A15, A11, A1, A3, A4, BD2, AZ1, CT,

Info for manual annotations of cluster A1:

- Start number 26 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A11:

- Start number 22 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster A3:

- Start number 20 was manually annotated 2 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 20 was manually annotated 113 times for cluster A4.

Gene Information:

Gene: ACFishhook_1 Start: 596, Stop: 823, Start Num: 20

Candidate Starts for ACFishhook_1:

(12, 521), (16, 530), (Start: 20 @596 has 115 MA's),

Gene: AbbysRanger_1 Start: 542, Stop: 769, Start Num: 20

Candidate Starts for AbbysRanger_1:

(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: Abdiel_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Abdiel_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Achebe_1 Start: 542, Stop: 769, Start Num: 20

Candidate Starts for Achebe_1:

(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: Agaliana_2 Start: 958, Stop: 1131, Start Num: 26

Candidate Starts for Agaliana_2:

(6, 787), (11, 835), (Start: 26 @958 has 1 MA's), (32, 1048), (33, 1084),

Gene: Albee_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Albee_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Alberto7_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Alberto7_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Annyong_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Annyong_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Arturo_86 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Arturo_86:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: AvatarAhPeg_1 Start: 535, Stop: 762, Start Num: 20
Candidate Starts for AvatarAhPeg_1:
(2, 355), (Start: 20 @535 has 115 MA's), (33, 721),

Gene: Avle17_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Avle17_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Baby16_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Baby16_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Badger_1 Start: 543, Stop: 770, Start Num: 20
Candidate Starts for Badger_1:
(Start: 20 @543 has 115 MA's), (27, 609), (33, 729),

Gene: Bartimeaus_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Bartimeaus_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: BellusTerra_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for BellusTerra_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Blackmoor_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Blackmoor_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Bombshell_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Bombshell_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Broseidon_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Broseidon_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Bruiser_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Bruiser_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: BubbleTrouble_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for BubbleTrouble_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Bumblebee11_1 Start: 542, Stop: 769, Start Num: 20

Candidate Starts for Bumblebee11_1:

(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: Camperdownii_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Camperdownii_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: CentreCat_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for CentreCat_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Chaph_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Chaph_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Cici_1 Start: 542, Stop: 769, Start Num: 20

Candidate Starts for Cici_1:

(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: Cintron_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Cintron_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Citius_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Citius_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Clarenza_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Clarenza_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Cocoaberry_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Cocoaberry_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Connomayer_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Connomayer_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Datway_1 Start: 542, Stop: 769, Start Num: 20

Candidate Starts for Datway_1:

(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: Deano_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Deano_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Dhanush_1 Start: 537, Stop: 764, Start Num: 20

Candidate Starts for Dhanush_1:

(Start: 20 @537 has 115 MA's), (33, 723),

Gene: DirtyDunning_1 Start: 536, Stop: 763, Start Num: 20
Candidate Starts for DirtyDunning_1:
(Start: 20 @536 has 115 MA's), (33, 722),

Gene: Druantia_1 Start: 539, Stop: 766, Start Num: 20
Candidate Starts for Druantia_1:
(Start: 20 @539 has 115 MA's), (33, 725),

Gene: Eapen_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Eapen_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Elliott_69 Start: 45873, Stop: 46064, Start Num: 24
Candidate Starts for Elliott_69:
(7, 45738), (11, 45759), (24, 45873),

Gene: Eris_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Eris_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Eros_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Eros_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Espresso_2 Start: 955, Stop: 1128, Start Num: 26
Candidate Starts for Espresso_2:
(6, 784), (11, 832), (Start: 26 @955 has 1 MA's), (29, 1009), (32, 1045), (33, 1081),

Gene: Eurydice_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Eurydice_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Florean_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Florean_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Flux_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Flux_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Funston_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Funston_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Gadost_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Gadost_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: HanShotFirst_2 Start: 873, Stop: 1067, Start Num: 26
Candidate Starts for HanShotFirst_2:
(11, 750), (Start: 26 @873 has 1 MA's), (33, 999),

Gene: Happiness_1 Start: 537, Stop: 764, Start Num: 20
Candidate Starts for Happiness_1:
(Start: 20 @537 has 115 MA's), (33, 723),

Gene: Holli_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Holli_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Houdini22_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Houdini22_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: ICleared_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for ICleared_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Iceman_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Iceman_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Iracema64_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Iracema64_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Jaykayelowell_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Jaykayelowell_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: JetBlade_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for JetBlade_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: JoongJeon_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for JoongJeon_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Jstan_70 Start: 43158, Stop: 43409, Start Num: 19
Candidate Starts for Jstan_70:
(11, 43107), (19, 43158), (Start: 20 @43173 has 115 MA's), (25, 43224), (30, 43299), (34, 43398),

Gene: KFPoly_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for KFPoly_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Kampy_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Kampy_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Katalie136_1 Start: 542, Stop: 769, Start Num: 20
Candidate Starts for Katalie136_1:
(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: KayGee_73 Start: 48113, Stop: 48361, Start Num: 20

Candidate Starts for KayGee_73:
(8, 48023), (13, 48035), (17, 48059), (Start: 20 @48113 has 115 MA's), (23, 48140), (31, 48260),

Gene: Kingmustik0402_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Kingmustik0402_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Koreni_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Koreni_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Kratark_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Kratark_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Kyee_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Kyee_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Lemur_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Lemur_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: LittleB_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for LittleB_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: LittleGuy_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for LittleGuy_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: LochMonster_1 Start: 536, Stop: 763, Start Num: 20
Candidate Starts for LochMonster_1:
(2, 356), (Start: 20 @536 has 115 MA's), (33, 722),

Gene: Lorenzo_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Lorenzo_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Mabel_4 Start: 2458, Stop: 2664, Start Num: 22
Candidate Starts for Mabel_4:
(15, 2368), (18, 2401), (Start: 22 @2458 has 1 MA's), (35, 2659),

Gene: Maxo_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Maxo_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Mazhar510_1 Start: 539, Stop: 766, Start Num: 20
Candidate Starts for Mazhar510_1:
(Start: 20 @539 has 115 MA's), (33, 725),

Gene: Medusa_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Medusa_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Melvin_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Melvin_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Millski_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Millski_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Miramae_1 Start: 535, Stop: 762, Start Num: 20

Candidate Starts for Miramae_1:

(2, 355), (Start: 20 @535 has 115 MA's), (33, 721),

Gene: Morpher26_1 Start: 542, Stop: 769, Start Num: 20

Candidate Starts for Morpher26_1:

(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: Morrow_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Morrow_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Mundrea_1 Start: 539, Stop: 766, Start Num: 20

Candidate Starts for Mundrea_1:

(3, 359), (Start: 20 @539 has 115 MA's), (33, 725),

Gene: Nebs_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Nebs_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Nemo27_1 Start: 537, Stop: 764, Start Num: 20

Candidate Starts for Nemo27_1:

(Start: 20 @537 has 115 MA's), (33, 723),

Gene: Noelle_1 Start: 526, Stop: 753, Start Num: 20

Candidate Starts for Noelle_1:

(2, 346), (Start: 20 @526 has 115 MA's), (33, 712),

Gene: NorthStar_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for NorthStar_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: NotAPhaseMom_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for NotAPhaseMom_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Nyxis_1 Start: 539, Stop: 766, Start Num: 20

Candidate Starts for Nyxis_1:

(Start: 20 @539 has 115 MA's), (33, 725),

Gene: OKaNui_1 Start: 537, Stop: 764, Start Num: 20

Candidate Starts for OKaNui_1:

(Start: 20 @537 has 115 MA's), (33, 723),

Gene: Obama12_1 Start: 537, Stop: 764, Start Num: 20
Candidate Starts for Obama12_1:
(2, 357), (9, 462), (Start: 20 @537 has 115 MA's), (33, 723),

Gene: Ohfah_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Ohfah_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Oofda_4 Start: 2372, Stop: 2578, Start Num: 22
Candidate Starts for Oofda_4:
(4, 2186), (15, 2282), (Start: 22 @2372 has 1 MA's),

Gene: Palestino_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Palestino_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Pelly_2 Start: 905, Stop: 1078, Start Num: 26
Candidate Starts for Pelly_2:
(11, 782), (Start: 26 @905 has 1 MA's), (32, 995), (33, 1031),

Gene: Perplexer_1 Start: 542, Stop: 769, Start Num: 20
Candidate Starts for Perplexer_1:
(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: PeterPeter_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for PeterPeter_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: PetiteSangsue_1 Start: 542, Stop: 769, Start Num: 20
Candidate Starts for PetiteSangsue_1:
(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: Phacado_1 Start: 537, Stop: 764, Start Num: 20
Candidate Starts for Phacado_1:
(Start: 20 @537 has 115 MA's), (33, 723),

Gene: Phighter1804_1 Start: 536, Stop: 763, Start Num: 20
Candidate Starts for Phighter1804_1:
(2, 356), (Start: 20 @536 has 115 MA's), (33, 722),

Gene: Phontbonne_1 Start: 536, Stop: 763, Start Num: 20
Candidate Starts for Phontbonne_1:
(Start: 20 @536 has 115 MA's), (33, 722),

Gene: Pipcraft_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Pipcraft_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Polymorphads_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Polymorphads_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: PotPie_70 Start: 47957, Stop: 48178, Start Num: 21
Candidate Starts for PotPie_70:
(8, 47852), (13, 47864), (17, 47888), (21, 47957), (31, 48074),

Gene: PsychoKiller_68 Start: 45874, Stop: 46065, Start Num: 24
Candidate Starts for PsychoKiller_68:
(7, 45739), (11, 45760), (24, 45874),

Gene: Puginator_4 Start: 1105, Stop: 1350, Start Num: 20
Candidate Starts for Puginator_4:
(1, 883), (5, 964), (8, 1030), (10, 1036), (Start: 20 @1105 has 115 MA's), (27, 1180),

Gene: Pumbaa_1 Start: 536, Stop: 763, Start Num: 20
Candidate Starts for Pumbaa_1:
(2, 356), (Start: 20 @536 has 115 MA's), (33, 722),

Gene: RedBaron_75 Start: 47300, Stop: 47491, Start Num: 24
Candidate Starts for RedBaron_75:
(7, 47165), (11, 47186), (24, 47300),

Gene: Relief_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Relief_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Romney_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Romney_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Roosevelt_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Roosevelt_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Ruin_1 Start: 537, Stop: 764, Start Num: 20
Candidate Starts for Ruin_1:
(Start: 20 @537 has 115 MA's), (33, 723),

Gene: Sabertooth_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Sabertooth_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Scamp_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Scamp_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: SheldonCooper_1 Start: 536, Stop: 763, Start Num: 20
Candidate Starts for SheldonCooper_1:
(9, 461), (Start: 20 @536 has 115 MA's), (33, 722),

Gene: Shygu2_1 Start: 542, Stop: 769, Start Num: 20
Candidate Starts for Shygu2_1:
(Start: 20 @542 has 115 MA's), (33, 728),

Gene: Skipitt_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for Skipitt_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: SoYo_1 Start: 592, Stop: 819, Start Num: 20
Candidate Starts for SoYo_1:
(12, 517), (16, 526), (Start: 20 @592 has 115 MA's),

Gene: Sparxx_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Sparxx_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Spino_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Spino_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Stasia_1 Start: 544, Stop: 771, Start Num: 20
Candidate Starts for Stasia_1:
(Start: 20 @544 has 115 MA's), (33, 730),

Gene: Swole_2 Start: 957, Stop: 1130, Start Num: 26
Candidate Starts for Swole_2:
(6, 786), (11, 834), (Start: 26 @957 has 1 MA's), (32, 1047), (33, 1083),

Gene: Taquarus_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Taquarus_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Thanksgivukkah_1 Start: 539, Stop: 766, Start Num: 20
Candidate Starts for Thanksgivukkah_1:
(Start: 20 @539 has 115 MA's), (33, 725),

Gene: TinaFeyge_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for TinaFeyge_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: TroyPia_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for TroyPia_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: TygerBlood_1 Start: 540, Stop: 767, Start Num: 20
Candidate Starts for TygerBlood_1:
(Start: 20 @540 has 115 MA's), (33, 726),

Gene: Wander_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Wander_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Wilbur_1 Start: 538, Stop: 765, Start Num: 20
Candidate Starts for Wilbur_1:
(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Wile_1 Start: 543, Stop: 770, Start Num: 20
Candidate Starts for Wile_1:

(Start: 20 @543 has 115 MA's), (27, 609), (33, 729),

Gene: Wizard007_1 Start: 540, Stop: 767, Start Num: 20

Candidate Starts for Wizard007_1:

(Start: 20 @540 has 115 MA's), (33, 726),

Gene: Xena_1 Start: 542, Stop: 769, Start Num: 20

Candidate Starts for Xena_1:

(Start: 20 @542 has 115 MA's), (27, 608), (33, 728),

Gene: YoSam321_1 Start: 538, Stop: 765, Start Num: 20

Candidate Starts for YoSam321_1:

(Start: 20 @538 has 115 MA's), (33, 724),

Gene: Zareef_70 Start: 45132, Stop: 45311, Start Num: 28

Candidate Starts for Zareef_70:

(14, 44991), (28, 45132), (31, 45201),