



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 304926 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304926 has 86 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Burgy_16, BurtonThePup_16, JaimeB_16, Hernandez44_16, LionelHutz_16, Gabbspett_16, Rhogar_16, Owens_16, Slentz_16, HeadMave_16, Ciel_16, NeumannU_16, Danno_16, BinkBonk_16, TimoTea_16, Hulk_16, SantasSleigh_16, Godfather_16, BarBear_16, Luxx_16, Goobery_16, Scrunchy_16, Jella_17, Eightball_16, Astro16_16, Maneater_16, Scamander_16, Majesty_16, Sage7_16, Kojax4_16, Aries55_16, TeddyBoy_16, Avvas_16, Zahlia_16
- Track 2 : MasterPitts_16, Octopus_16, Madebyisha_16, Alucard_16, YertPhresh_16, Puddles3_16, Bradley2_16, Horacetta_16, SeaWolves_16, Erin_16, Jahseh_16, PaoPu_16, Aztec_16, Chatham_16, Danimal_16, Dooby_16, DirtPie_16, Duggle_17, Goulash_16, GoldenBlanche_16, Picnic_16, Minima_16, LemonPepper_16, ManAs_16, Jerky_16, OdetoJoy_16, KyriosFaba_16, Gillker_16, Pondwater_16, Sachet_16, Gardevoir_16, JoBros_16, EdElric_16, Yasuo_16, Marichuy_17, Myram_16, Dongwon_16, DaftyDuck_16, Sara_16, Witch_16, Yubaba_16
- Track 3 : Grayscar_16, Jannah_16, Rhysand_16, Vanisius_16, Josuke_16, Cheesecake_16, LaviMo_16
- Track 4 : Otwor_16
- Track 5 : Tyrellus_16, Picconator_16, RoscoWindex_16

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

The start number called the most often in the published annotations is 3, it was called in 80 of the 83 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alucard_16, Aries55_16, Astro16_16, Avvas_16, Aztec_16, BarBear_16, BinkBonk_16, Bradley2_16, Burgy_16, BurtonThePup_16, Chatham_16, Cheesecake_16, Ciel_16, DaftyDuck_16, Danimal_16, Danno_16, DirtPie_16, Dongwon_16, Dooby_16, Duggle_17, EdElric_16, Eightball_16, Erin_16, Gabbspett_16, Gardevoir_16, Gillker_16, Godfather_16, GoldenBlanche_16, Goobery_16, Goulash_16, Grayscar_16, HeadMave_16, Hernandez44_16, Horacetta_16, Hulk_16, Jahseh_16, JaimeB_16, Jannah_16, Jella_17, Jerky_16, JoBros_16, Josuke_16, Kojax4_16, KyriosFaba_16, LaviMo_16, LemonPepper_16, LionelHutz_16, Luxx_16, Madebyisha_16, Majesty_16, ManAs_16, Maneater_16,

Marichuy_17, MasterPitts_16, Minima_16, Myram_16, NeumannU_16, Octopus_16, OdetoJoy_16, Otwor_16, Owens_16, PaoPu_16, Picnic_16, Pondwater_16, Puddles3_16, Rhogar_16, Rhysand_16, Sachet_16, Sage7_16, SantasSleigh_16, Sara_16, Scamander_16, Scrunchy_16, SeaWolves_16, Slentz_16, TeddyBoy_16, TimoTea_16, Vanisius_16, Witch_16, Yasuo_16, YertPhresh_16, Yubaba_16, Zahlia_16,

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

- Picconator_16, RoscoWindex_16, Tyrellus_16,

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

-

Summary by start number:

Start 2:

- Found in 78 of 86 (90.7%) of genes in pham
- Manual Annotations of this start: 3 of 83
- Called 3.8% of time when present
- Phage (with cluster) where this start called: Picconator_16 (EE), RoscoWindex_16 (EE), Tyrellus_16 (EE),

Start 3:

- Found in 86 of 86 (100.0%) of genes in pham
- Manual Annotations of this start: 80 of 83
- Called 96.5% of time when present
- Phage (with cluster) where this start called: Alucard_16 (EE), Aries55_16 (EE), Astro16_16 (EE), Avvas_16 (EE), Aztec_16 (EE), BarBear_16 (EE), BinkBonk_16 (EE), Bradley2_16 (EE), Burgy_16 (EE), BurtonThePup_16 (EE), Chatham_16 (EE), Cheesecake_16 (EE), Ciel_16 (EE), DaftyDuck_16 (EE), Danimal_16 (EE), Danno_16 (EE), DirtPie_16 (EE), Dongwon_16 (EE), Dooby_16 (EE), Duggle_17 (EE), EdElric_16 (EE), Eightball_16 (EE), Erin_16 (EE), Gabbspett_16 (EE), Gardevoir_16 (EE), Gillker_16 (EE), Godfather_16 (EE), GoldenBlanche_16 (EE), Goobery_16 (EE), Goulash_16 (EE), Grayscar_16 (EE), HeadMave_16 (EE), Hernandez44_16 (EE), Horacetta_16 (EE), Hulk_16 (EE), Jahseh_16 (EE), JaimeB_16 (EE), Jannah_16 (EE), Jella_17 (EE), Jerky_16 (EE), JoBros_16 (EE), Josuke_16 (EE), Kojax4_16 (EE), KyriosFaba_16 (EE), LaviMo_16 (EE), LemonPepper_16 (EE), LionelHutz_16 (EE), Luxx_16 (EE), Madebyisha_16 (EE), Majesty_16 (EE), ManAs_16 (EE), Maneater_16 (EE), Marichuy_17 (EE), MasterPitts_16 (EE), Minima_16 (EE), Myram_16 (EE), NeumannU_16 (EE), Octopus_16 (EE), OdetoJoy_16 (EE), Otwor_16 (EE), Owens_16 (EE), PaoPu_16 (EE), Picnic_16 (EE), Pondwater_16 (EE), Puddles3_16 (EE), Rhogar_16 (EE), Rhysand_16 (EE), Sachet_16 (EE), Sage7_16 (EE), SantasSleigh_16 (EE), Sara_16 (EE), Scamander_16 (EE), Scrunchy_16 (EE), SeaWolves_16 (EE), Slentz_16 (EE), TeddyBoy_16 (EE), TimoTea_16 (EE), Vanisius_16 (EE), Witch_16 (EE), Yasuo_16 (EE), YertPhresh_16 (EE), Yubaba_16 (EE), Zahlia_16 (EE),

Summary by clusters:

There is one cluster represented in this pham: EE

Info for manual annotations of cluster EE:

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

•Start number 3 was manually annotated 80 times for cluster EE.

Gene Information:

Gene: Alucard_16 Start: 13258, Stop: 13545, Start Num: 3

Candidate Starts for Alucard_16:

(Start: 2 @13234 has 3 MA's), (Start: 3 @13258 has 80 MA's), (4, 13276), (5, 13324), (6, 13369), (7, 13465),

Gene: Aries55_16 Start: 13335, Stop: 13622, Start Num: 3

Candidate Starts for Aries55_16:

(Start: 2 @13311 has 3 MA's), (Start: 3 @13335 has 80 MA's), (4, 13353), (5, 13401), (6, 13446),

Gene: Astro16_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for Astro16_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Avvas_16 Start: 13335, Stop: 13622, Start Num: 3

Candidate Starts for Avvas_16:

(Start: 2 @13311 has 3 MA's), (Start: 3 @13335 has 80 MA's), (4, 13353), (5, 13401), (6, 13446),

Gene: Aztec_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Aztec_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: BarBear_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for BarBear_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: BinkBonk_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for BinkBonk_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Bradley2_16 Start: 13256, Stop: 13543, Start Num: 3

Candidate Starts for Bradley2_16:

(Start: 2 @13232 has 3 MA's), (Start: 3 @13256 has 80 MA's), (4, 13274), (5, 13322), (6, 13367), (7, 13463),

Gene: Burgy_16 Start: 13335, Stop: 13622, Start Num: 3

Candidate Starts for Burgy_16:

(Start: 2 @13311 has 3 MA's), (Start: 3 @13335 has 80 MA's), (4, 13353), (5, 13401), (6, 13446),

Gene: BurtonThePup_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for BurtonThePup_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Chatham_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Chatham_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Cheesecake_16 Start: 13336, Stop: 13623, Start Num: 3
Candidate Starts for Cheesecake_16:
(Start: 3 @13336 has 80 MA's), (4, 13354), (5, 13402), (6, 13447),

Gene: Ciel_16 Start: 13329, Stop: 13616, Start Num: 3
Candidate Starts for Ciel_16:
(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: DaftyDuck_16 Start: 13266, Stop: 13553, Start Num: 3
Candidate Starts for DaftyDuck_16:
(Start: 2 @13242 has 3 MA's), (Start: 3 @13266 has 80 MA's), (4, 13284), (5, 13332), (6, 13377), (7, 13473),

Gene: Danimal_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for Danimal_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Danno_16 Start: 13335, Stop: 13622, Start Num: 3
Candidate Starts for Danno_16:
(Start: 2 @13311 has 3 MA's), (Start: 3 @13335 has 80 MA's), (4, 13353), (5, 13401), (6, 13446),

Gene: DirtPie_16 Start: 13359, Stop: 13646, Start Num: 3
Candidate Starts for DirtPie_16:
(Start: 2 @13335 has 3 MA's), (Start: 3 @13359 has 80 MA's), (4, 13377), (5, 13425), (6, 13470), (7, 13566),

Gene: Dongwon_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for Dongwon_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Dooby_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for Dooby_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Duggle_17 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for Duggle_17:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: EdElric_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for EdElric_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Eightball_16 Start: 13329, Stop: 13616, Start Num: 3
Candidate Starts for Eightball_16:
(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Erin_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Erin_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Gabbspett_16 Start: 13361, Stop: 13648, Start Num: 3

Candidate Starts for Gabbspett_16:

(Start: 2 @13337 has 3 MA's), (Start: 3 @13361 has 80 MA's), (4, 13379), (5, 13427), (6, 13472),

Gene: Gardevoir_16 Start: 13291, Stop: 13578, Start Num: 3

Candidate Starts for Gardevoir_16:

(Start: 2 @13267 has 3 MA's), (Start: 3 @13291 has 80 MA's), (4, 13309), (5, 13357), (6, 13402), (7, 13498),

Gene: Gillker_16 Start: 13256, Stop: 13543, Start Num: 3

Candidate Starts for Gillker_16:

(Start: 2 @13232 has 3 MA's), (Start: 3 @13256 has 80 MA's), (4, 13274), (5, 13322), (6, 13367), (7, 13463),

Gene: Godfather_16 Start: 13335, Stop: 13622, Start Num: 3

Candidate Starts for Godfather_16:

(Start: 2 @13311 has 3 MA's), (Start: 3 @13335 has 80 MA's), (4, 13353), (5, 13401), (6, 13446),

Gene: GoldenBlanche_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for GoldenBlanche_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Goobery_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for Goobery_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Goulash_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Goulash_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Grayscar_16 Start: 13336, Stop: 13623, Start Num: 3

Candidate Starts for Grayscar_16:

(Start: 3 @13336 has 80 MA's), (4, 13354), (5, 13402), (6, 13447),

Gene: HeadMave_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for HeadMave_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Hernandez44_16 Start: 13361, Stop: 13648, Start Num: 3

Candidate Starts for Hernandez44_16:

(Start: 2 @13337 has 3 MA's), (Start: 3 @13361 has 80 MA's), (4, 13379), (5, 13427), (6, 13472),

Gene: Horacetta_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Horacetta_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Hulk_16 Start: 13273, Stop: 13560, Start Num: 3
Candidate Starts for Hulk_16:
(Start: 2 @13249 has 3 MA's), (Start: 3 @13273 has 80 MA's), (4, 13291), (5, 13339), (6, 13384),

Gene: Jahseh_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for Jahseh_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: JaimeB_16 Start: 13329, Stop: 13616, Start Num: 3
Candidate Starts for JaimeB_16:
(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Jannah_16 Start: 13324, Stop: 13611, Start Num: 3
Candidate Starts for Jannah_16:
(Start: 3 @13324 has 80 MA's), (4, 13342), (5, 13390), (6, 13435),

Gene: Jella_17 Start: 13347, Stop: 13634, Start Num: 3
Candidate Starts for Jella_17:
(Start: 2 @13323 has 3 MA's), (Start: 3 @13347 has 80 MA's), (4, 13365), (5, 13413), (6, 13458),

Gene: Jerky_16 Start: 13410, Stop: 13697, Start Num: 3
Candidate Starts for Jerky_16:
(Start: 2 @13386 has 3 MA's), (Start: 3 @13410 has 80 MA's), (4, 13428), (5, 13476), (6, 13521), (7, 13617),

Gene: JoBros_16 Start: 13258, Stop: 13545, Start Num: 3
Candidate Starts for JoBros_16:
(Start: 2 @13234 has 3 MA's), (Start: 3 @13258 has 80 MA's), (4, 13276), (5, 13324), (6, 13369), (7, 13465),

Gene: Josuke_16 Start: 13336, Stop: 13623, Start Num: 3
Candidate Starts for Josuke_16:
(Start: 3 @13336 has 80 MA's), (4, 13354), (5, 13402), (6, 13447),

Gene: Kojax4_16 Start: 13335, Stop: 13622, Start Num: 3
Candidate Starts for Kojax4_16:
(Start: 2 @13311 has 3 MA's), (Start: 3 @13335 has 80 MA's), (4, 13353), (5, 13401), (6, 13446),

Gene: KyriosFaba_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for KyriosFaba_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: LaviMo_16 Start: 13336, Stop: 13623, Start Num: 3
Candidate Starts for LaviMo_16:
(Start: 3 @13336 has 80 MA's), (4, 13354), (5, 13402), (6, 13447),

Gene: LemonPepper_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for LemonPepper_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: LionelHutz_16 Start: 13329, Stop: 13616, Start Num: 3
Candidate Starts for LionelHutz_16:
(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Luxx_16 Start: 13347, Stop: 13634, Start Num: 3
Candidate Starts for Luxx_16:
(Start: 2 @13323 has 3 MA's), (Start: 3 @13347 has 80 MA's), (4, 13365), (5, 13413), (6, 13458),

Gene: Madebyisha_16 Start: 13410, Stop: 13697, Start Num: 3
Candidate Starts for Madebyisha_16:
(Start: 2 @13386 has 3 MA's), (Start: 3 @13410 has 80 MA's), (4, 13428), (5, 13476), (6, 13521), (7, 13617),

Gene: Majesty_16 Start: 13329, Stop: 13616, Start Num: 3
Candidate Starts for Majesty_16:
(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: ManAs_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for ManAs_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Maneater_16 Start: 13311, Stop: 13598, Start Num: 3
Candidate Starts for Maneater_16:
(Start: 2 @13287 has 3 MA's), (Start: 3 @13311 has 80 MA's), (4, 13329), (5, 13377), (6, 13422),

Gene: Marichuy_17 Start: 13359, Stop: 13646, Start Num: 3
Candidate Starts for Marichuy_17:
(Start: 2 @13335 has 3 MA's), (Start: 3 @13359 has 80 MA's), (4, 13377), (5, 13425), (6, 13470), (7, 13566),

Gene: MasterPitts_16 Start: 13266, Stop: 13553, Start Num: 3
Candidate Starts for MasterPitts_16:
(Start: 2 @13242 has 3 MA's), (Start: 3 @13266 has 80 MA's), (4, 13284), (5, 13332), (6, 13377), (7, 13473),

Gene: Minima_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for Minima_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Myram_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for Myram_16:
(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: NeumannU_16 Start: 13329, Stop: 13616, Start Num: 3
Candidate Starts for NeumannU_16:
(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Octopus_16 Start: 13257, Stop: 13544, Start Num: 3
Candidate Starts for Octopus_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: OdetoJoy_16 Start: 13410, Stop: 13697, Start Num: 3

Candidate Starts for OdetoJoy_16:

(Start: 2 @13386 has 3 MA's), (Start: 3 @13410 has 80 MA's), (4, 13428), (5, 13476), (6, 13521), (7, 13617),

Gene: Otwor_16 Start: 13337, Stop: 13624, Start Num: 3

Candidate Starts for Otwor_16:

(1, 13295), (Start: 3 @13337 has 80 MA's), (4, 13355), (5, 13403), (6, 13448),

Gene: Owens_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for Owens_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: PaoPu_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for PaoPu_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Picconator_16 Start: 13305, Stop: 13616, Start Num: 2

Candidate Starts for Picconator_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Picnic_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Picnic_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Pondwater_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Pondwater_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Puddles3_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Puddles3_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Rhogar_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for Rhogar_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Rhysand_16 Start: 13336, Stop: 13623, Start Num: 3

Candidate Starts for Rhysand_16:

(Start: 3 @13336 has 80 MA's), (4, 13354), (5, 13402), (6, 13447),

Gene: RoscoWindex_16 Start: 13312, Stop: 13623, Start Num: 2

Candidate Starts for RoscoWindex_16:

(Start: 2 @13312 has 3 MA's), (Start: 3 @13336 has 80 MA's), (4, 13354), (5, 13402), (6, 13447),

Gene: Sachet_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Sachet_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Sage7_16 Start: 13335, Stop: 13622, Start Num: 3

Candidate Starts for Sage7_16:

(Start: 2 @13311 has 3 MA's), (Start: 3 @13335 has 80 MA's), (4, 13353), (5, 13401), (6, 13446),

Gene: SantasSleigh_16 Start: 13359, Stop: 13646, Start Num: 3

Candidate Starts for SantasSleigh_16:

(Start: 2 @13335 has 3 MA's), (Start: 3 @13359 has 80 MA's), (4, 13377), (5, 13425), (6, 13470),

Gene: Sara_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for Sara_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Scamander_16 Start: 13335, Stop: 13622, Start Num: 3

Candidate Starts for Scamander_16:

(Start: 2 @13311 has 3 MA's), (Start: 3 @13335 has 80 MA's), (4, 13353), (5, 13401), (6, 13446),

Gene: Scrunchy_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for Scrunchy_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: SeaWolves_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for SeaWolves_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Slentz_16 Start: 13329, Stop: 13616, Start Num: 3

Candidate Starts for Slentz_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: TeddyBoy_16 Start: 13330, Stop: 13617, Start Num: 3

Candidate Starts for TeddyBoy_16:

(Start: 2 @13306 has 3 MA's), (Start: 3 @13330 has 80 MA's), (4, 13348), (5, 13396), (6, 13441),

Gene: TimoTea_16 Start: 13311, Stop: 13598, Start Num: 3

Candidate Starts for TimoTea_16:

(Start: 2 @13287 has 3 MA's), (Start: 3 @13311 has 80 MA's), (4, 13329), (5, 13377), (6, 13422),

Gene: Tyrellus_16 Start: 13305, Stop: 13616, Start Num: 2

Candidate Starts for Tyrellus_16:

(Start: 2 @13305 has 3 MA's), (Start: 3 @13329 has 80 MA's), (4, 13347), (5, 13395), (6, 13440),

Gene: Vanisius_16 Start: 13336, Stop: 13623, Start Num: 3

Candidate Starts for Vanisius_16:

(Start: 3 @13336 has 80 MA's), (4, 13354), (5, 13402), (6, 13447),

Gene: Witch_16 Start: 13258, Stop: 13545, Start Num: 3

Candidate Starts for Witch_16:

(Start: 2 @13234 has 3 MA's), (Start: 3 @13258 has 80 MA's), (4, 13276), (5, 13324), (6, 13369), (7, 13465),

Gene: Yasuo_16 Start: 13320, Stop: 13607, Start Num: 3

Candidate Starts for Yasuo_16:

(Start: 2 @13296 has 3 MA's), (Start: 3 @13320 has 80 MA's), (4, 13338), (5, 13386), (6, 13431), (7, 13527),

Gene: YertPhresh_16 Start: 13257, Stop: 13544, Start Num: 3

Candidate Starts for YertPhresh_16:

(Start: 2 @13233 has 3 MA's), (Start: 3 @13257 has 80 MA's), (4, 13275), (5, 13323), (6, 13368), (7, 13464),

Gene: Yubaba_16 Start: 13291, Stop: 13578, Start Num: 3

Candidate Starts for Yubaba_16:

(Start: 2 @13267 has 3 MA's), (Start: 3 @13291 has 80 MA's), (4, 13309), (5, 13357), (6, 13402), (7, 13498),

Gene: Zahlia_16 Start: 13365, Stop: 13652, Start Num: 3

Candidate Starts for Zahlia_16:

(Start: 2 @13341 has 3 MA's), (Start: 3 @13365 has 80 MA's), (4, 13383), (5, 13431), (6, 13476),