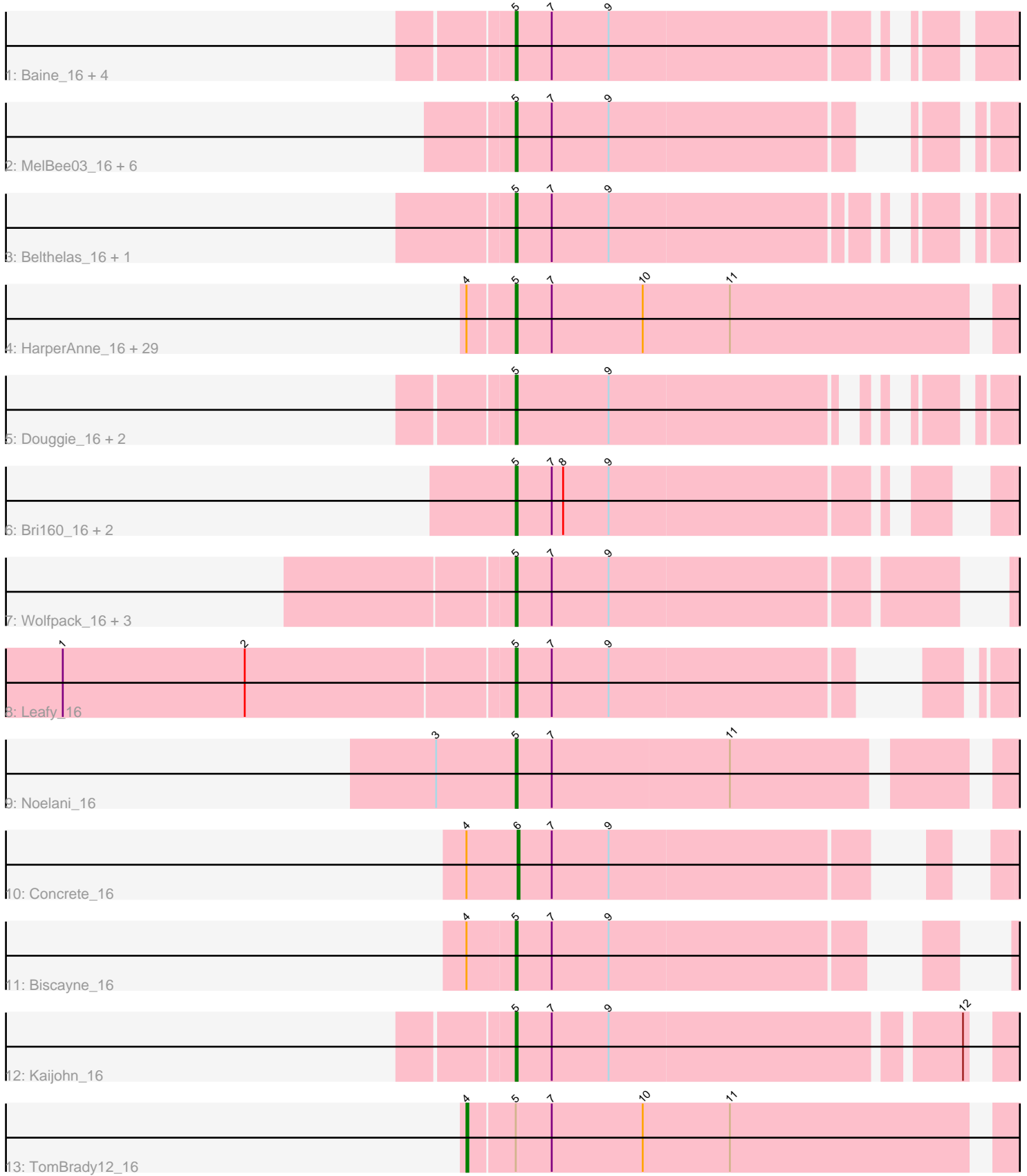


Pham 305026



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 305026 Report

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

Pham number 305026 has 60 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Baine_16, Lola20_16, Loca_16, Cayde6_16, Anseraureola_16
- Track 2 : MelBee03_16, Azizam_16, JRok_16, BrokMonster_16, MrGreen_16, Kevanna_16, Oaklynn_16
- Track 3 : Belthelas_16, McShie_16
- Track 4 : HarperAnne_16, Miaurora_16, Trireme_16, Snuffles_17, Lunatic_16, VitulaEligans_16, Cazares_16, JooneeDee_16, Mauilvory_16, Upsilon_16, Elspeth_16, Rira_16, Bintii_16, IzzyPants24_16, Publix_16, ELee24_16, MirimarMandM_16, Ekko14_16, Namsahir_17, Yami_16, Nobel_16, Bullzi2019_16, Niffler_16, TinyTruffula_16, Slizam_16, Stem_16, PuffyCat_16, PoRanda_16, Trackstar_16, Clownery_16
- Track 5 : Duggie_16, Quaker_16, Livingwater_16
- Track 6 : Bri160_16, KillerTomato_16, BoomRoasted_16
- Track 7 : Wolfpack_16, Bodhi17_16, Sippinontea_16, KayPaulus_16
- Track 8 : Leafy_16
- Track 9 : Noelani_16
- Track 10 : Concrete_16
- Track 11 : Biscayne_16
- Track 12 : Kaijohn_16
- Track 13 : TomBrady12_16

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 56 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anseraureola_16, Azizam_16, Baine_16, Belthelas_16, Bintii_16, Biscayne_16, Bodhi17_16, BoomRoasted_16, Bri160_16, BrokMonster_16, Bullzi2019_16, Cayde6_16, Cazares_16, Clownery_16, Duggie_16, ELee24_16, Ekko14_16, Elspeth_16, HarperAnne_16, IzzyPants24_16, JRok_16, JooneeDee_16, Kaijohn_16, KayPaulus_16, Kevanna_16, KillerTomato_16, Leafy_16, Livingwater_16, Loca_16, Lola20_16, Lunatic_16, Mauilvory_16, McShie_16, MelBee03_16, Miaurora_16, MirimarMandM_16, MrGreen_16, Namsahir_17, Niffler_16, Nobel_16, Noelani_16, Oaklynn_16, PoRanda_16, Publix_16, PuffyCat_16, Quaker_16, Rira_16,

Sippinontea_16, Slizam_16, Snuffles_17, Stem_16, TinyTruffula_16, Trackstar_16, Trireme_16, Upsilon_16, VitulaEligans_16, Wolfpack_16, Yami_16,

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

- TomBrady12_16,

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

- Concrete_16,

Summary by start number:

Start 4:

- Found in 33 of 60 (55.0%) of genes in pham
- Manual Annotations of this start: 1 of 58
- Called 3.0% of time when present
- Phage (with cluster) where this start called: TomBrady12_16 (EE),

Start 5:

- Found in 59 of 60 (98.3%) of genes in pham
- Manual Annotations of this start: 56 of 58
- Called 98.3% of time when present
- Phage (with cluster) where this start called: Anseraureola_16 (EE), Azizam_16 (EE), Baine_16 (EE), Belthelas_16 (EE), Bintii_16 (EE), Biscayne_16 (EE), Bodhi17_16 (EE), BoomRoasted_16 (EE), Bri160_16 (EE), BrokMonster_16 (EE), Bullzi2019_16 (EE), Cayde6_16 (EE), Cazares_16 (EE), Clownery_16 (EE), Duggie_16 (EE), ELee24_16 (EE), Ekko14_16 (EE), Elspeth_16 (EE), HarperAnne_16 (EE), IzzyPants24_16 (EE), JRok_16 (EE), JooneeDee_16 (EE), Kaijohn_16 (EE), KayPaulus_16 (EE), Kevanna_16 (EE), KillerTomato_16 (EE), Leafy_16 (EE), Livingwater_16 (EE), Loca_16 (EE), Lola20_16 (EE), Lunatic_16 (EE), Mauilvory_16 (EE), McShie_16 (EE), MelBee03_16 (EE), Miaurora_16 (EE), MirimarMandM_16 (EE), MrGreen_16 (EE), Namsahir_17 (EE), Niffler_16 (EE), Nobel_16 (EE), Noelani_16 (EE), Oaklynn_16 (EE), PoRanda_16 (EE), Publix_16 (EE), PuffyCat_16 (EE), Quaker_16 (EE), Rira_16 (EE), Sippinontea_16 (EE), Slizam_16 (EE), Snuffles_17 (EE), Stem_16 (EE), TinyTruffula_16 (EE), Trackstar_16 (EE), Trireme_16 (EE), Upsilon_16 (EE), VitulaEligans_16 (EE), Wolfpack_16 (EE), Yami_16 (EE),

Start 6:

- Found in 1 of 60 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Concrete_16 (EE),

Summary by clusters:

There is one cluster represented in this pham: EE

Info for manual annotations of cluster EE:

- Start number 4 was manually annotated 1 time for cluster EE.
- Start number 5 was manually annotated 56 times for cluster EE.
- Start number 6 was manually annotated 1 time for cluster EE.

Gene Information:

Gene: Anseraureola_16 Start: 13311, Stop: 13595, Start Num: 5

Candidate Starts for Anseraureola_16:

(Start: 5 @13311 has 56 MA's), (7, 13329), (9, 13359),

Gene: Azizam_16 Start: 13281, Stop: 13544, Start Num: 5

Candidate Starts for Azizam_16:

(Start: 5 @13281 has 56 MA's), (7, 13299), (9, 13329),

Gene: Baine_16 Start: 13286, Stop: 13558, Start Num: 5

Candidate Starts for Baine_16:

(Start: 5 @13286 has 56 MA's), (7, 13304), (9, 13334),

Gene: Belthelas_16 Start: 13404, Stop: 13670, Start Num: 5

Candidate Starts for Belthelas_16:

(Start: 5 @13404 has 56 MA's), (7, 13422), (9, 13452),

Gene: Bintii_16 Start: 13343, Stop: 13630, Start Num: 5

Candidate Starts for Bintii_16:

(Start: 4 @13319 has 1 MA's), (Start: 5 @13343 has 56 MA's), (7, 13361), (10, 13409), (11, 13454),

Gene: Biscayne_16 Start: 13423, Stop: 13665, Start Num: 5

Candidate Starts for Biscayne_16:

(Start: 4 @13399 has 1 MA's), (Start: 5 @13423 has 56 MA's), (7, 13441), (9, 13471),

Gene: Bodhi17_16 Start: 13345, Stop: 13641, Start Num: 5

Candidate Starts for Bodhi17_16:

(Start: 5 @13345 has 56 MA's), (7, 13363), (9, 13393),

Gene: BoomRoasted_16 Start: 13334, Stop: 13609, Start Num: 5

Candidate Starts for BoomRoasted_16:

(Start: 5 @13334 has 56 MA's), (7, 13352), (8, 13358), (9, 13382),

Gene: Bri160_16 Start: 13333, Stop: 13596, Start Num: 5

Candidate Starts for Bri160_16:

(Start: 5 @13333 has 56 MA's), (7, 13351), (8, 13357), (9, 13381),

Gene: BrokMonster_16 Start: 13348, Stop: 13593, Start Num: 5

Candidate Starts for BrokMonster_16:

(Start: 5 @13348 has 56 MA's), (7, 13366), (9, 13396),

Gene: Bullzi2019_16 Start: 12816, Stop: 13115, Start Num: 5

Candidate Starts for Bullzi2019_16:

(Start: 4 @12792 has 1 MA's), (Start: 5 @12816 has 56 MA's), (7, 12834), (10, 12882), (11, 12927),

Gene: Cayde6_16 Start: 13286, Stop: 13558, Start Num: 5

Candidate Starts for Cayde6_16:

(Start: 5 @13286 has 56 MA's), (7, 13304), (9, 13334),

Gene: Cazares_16 Start: 12786, Stop: 13085, Start Num: 5

Candidate Starts for Cazares_16:

(Start: 4 @12762 has 1 MA's), (Start: 5 @12786 has 56 MA's), (7, 12804), (10, 12852), (11, 12897),

Gene: Clownery_16 Start: 12903, Stop: 13202, Start Num: 5
Candidate Starts for Clownery_16:
(Start: 4 @12879 has 1 MA's), (Start: 5 @12903 has 56 MA's), (7, 12921), (10, 12969), (11, 13014),

Gene: Concrete_16 Start: 13335, Stop: 13586, Start Num: 6
Candidate Starts for Concrete_16:
(Start: 4 @13308 has 1 MA's), (Start: 6 @13335 has 1 MA's), (7, 13353), (9, 13383),

Gene: Douggie_16 Start: 13344, Stop: 13601, Start Num: 5
Candidate Starts for Douggie_16:
(Start: 5 @13344 has 56 MA's), (9, 13392),

Gene: ELee24_16 Start: 13294, Stop: 13575, Start Num: 5
Candidate Starts for ELee24_16:
(Start: 4 @13270 has 1 MA's), (Start: 5 @13294 has 56 MA's), (7, 13312), (10, 13360), (11, 13405),

Gene: Ekko14_16 Start: 12784, Stop: 13083, Start Num: 5
Candidate Starts for Ekko14_16:
(Start: 4 @12760 has 1 MA's), (Start: 5 @12784 has 56 MA's), (7, 12802), (10, 12850), (11, 12895),

Gene: Elspeth_16 Start: 12784, Stop: 13083, Start Num: 5
Candidate Starts for Elspeth_16:
(Start: 4 @12760 has 1 MA's), (Start: 5 @12784 has 56 MA's), (7, 12802), (10, 12850), (11, 12895),

Gene: HarperAnne_16 Start: 12783, Stop: 13082, Start Num: 5
Candidate Starts for HarperAnne_16:
(Start: 4 @12759 has 1 MA's), (Start: 5 @12783 has 56 MA's), (7, 12801), (10, 12849), (11, 12894),

Gene: IzzyPants24_16 Start: 12834, Stop: 13133, Start Num: 5
Candidate Starts for IzzyPants24_16:
(Start: 4 @12810 has 1 MA's), (Start: 5 @12834 has 56 MA's), (7, 12852), (10, 12900), (11, 12945),

Gene: JRok_16 Start: 13278, Stop: 13541, Start Num: 5
Candidate Starts for JRok_16:
(Start: 5 @13278 has 56 MA's), (7, 13296), (9, 13326),

Gene: JooneeDee_16 Start: 13343, Stop: 13630, Start Num: 5
Candidate Starts for JooneeDee_16:
(Start: 4 @13319 has 1 MA's), (Start: 5 @13343 has 56 MA's), (7, 13361), (10, 13409), (11, 13454),

Gene: Kaijohn_16 Start: 13293, Stop: 13571, Start Num: 5
Candidate Starts for Kaijohn_16:
(Start: 5 @13293 has 56 MA's), (7, 13311), (9, 13341), (12, 13515),

Gene: KayPaulus_16 Start: 13345, Stop: 13614, Start Num: 5
Candidate Starts for KayPaulus_16:
(Start: 5 @13345 has 56 MA's), (7, 13363), (9, 13393),

Gene: Kevanna_16 Start: 13346, Stop: 13603, Start Num: 5
Candidate Starts for Kevanna_16:
(Start: 5 @13346 has 56 MA's), (7, 13364), (9, 13394),

Gene: KillerTomato_16 Start: 13333, Stop: 13596, Start Num: 5
Candidate Starts for KillerTomato_16:
(Start: 5 @13333 has 56 MA's), (7, 13351), (8, 13357), (9, 13381),

Gene: Leafy_16 Start: 13302, Stop: 13556, Start Num: 5
Candidate Starts for Leafy_16:
(1, 13068), (2, 13164), (Start: 5 @13302 has 56 MA's), (7, 13320), (9, 13350),

Gene: Livingwater_16 Start: 13344, Stop: 13601, Start Num: 5
Candidate Starts for Livingwater_16:
(Start: 5 @13344 has 56 MA's), (9, 13392),

Gene: Loca_16 Start: 13376, Stop: 13624, Start Num: 5
Candidate Starts for Loca_16:
(Start: 5 @13376 has 56 MA's), (7, 13394), (9, 13424),

Gene: Lola20_16 Start: 13286, Stop: 13558, Start Num: 5
Candidate Starts for Lola20_16:
(Start: 5 @13286 has 56 MA's), (7, 13304), (9, 13334),

Gene: Lunatic_16 Start: 12786, Stop: 13085, Start Num: 5
Candidate Starts for Lunatic_16:
(Start: 4 @12762 has 1 MA's), (Start: 5 @12786 has 56 MA's), (7, 12804), (10, 12852), (11, 12897),

Gene: Mauilvory_16 Start: 12901, Stop: 13200, Start Num: 5
Candidate Starts for Mauilvory_16:
(Start: 4 @12877 has 1 MA's), (Start: 5 @12901 has 56 MA's), (7, 12919), (10, 12967), (11, 13012),

Gene: McShie_16 Start: 13349, Stop: 13594, Start Num: 5
Candidate Starts for McShie_16:
(Start: 5 @13349 has 56 MA's), (7, 13367), (9, 13397),

Gene: MelBee03_16 Start: 13346, Stop: 13603, Start Num: 5
Candidate Starts for MelBee03_16:
(Start: 5 @13346 has 56 MA's), (7, 13364), (9, 13394),

Gene: Miaurora_16 Start: 12903, Stop: 13202, Start Num: 5
Candidate Starts for Miaurora_16:
(Start: 4 @12879 has 1 MA's), (Start: 5 @12903 has 56 MA's), (7, 12921), (10, 12969), (11, 13014),

Gene: MirimarMandM_16 Start: 13386, Stop: 13673, Start Num: 5
Candidate Starts for MirimarMandM_16:
(Start: 4 @13362 has 1 MA's), (Start: 5 @13386 has 56 MA's), (7, 13404), (10, 13452), (11, 13497),

Gene: MrGreen_16 Start: 13300, Stop: 13566, Start Num: 5
Candidate Starts for MrGreen_16:
(Start: 5 @13300 has 56 MA's), (7, 13318), (9, 13348),

Gene: Namsahir_17 Start: 12858, Stop: 13157, Start Num: 5
Candidate Starts for Namsahir_17:
(Start: 4 @12834 has 1 MA's), (Start: 5 @12858 has 56 MA's), (7, 12876), (10, 12924), (11, 12969),

Gene: Niffler_16 Start: 12876, Stop: 13175, Start Num: 5

Candidate Starts for Niffler_16:
(Start: 4 @12852 has 1 MA's), (Start: 5 @12876 has 56 MA's), (7, 12894), (10, 12942), (11, 12987),

Gene: Nobel_16 Start: 12903, Stop: 13202, Start Num: 5
Candidate Starts for Nobel_16:
(Start: 4 @12879 has 1 MA's), (Start: 5 @12903 has 56 MA's), (7, 12921), (10, 12969), (11, 13014),

Gene: Noelani_16 Start: 13221, Stop: 13499, Start Num: 5
Candidate Starts for Noelani_16:
(3, 13179), (Start: 5 @13221 has 56 MA's), (7, 13239), (11, 13332),

Gene: Oaklynn_16 Start: 13281, Stop: 13544, Start Num: 5
Candidate Starts for Oaklynn_16:
(Start: 5 @13281 has 56 MA's), (7, 13299), (9, 13329),

Gene: PoRanda_16 Start: 13386, Stop: 13673, Start Num: 5
Candidate Starts for PoRanda_16:
(Start: 4 @13362 has 1 MA's), (Start: 5 @13386 has 56 MA's), (7, 13404), (10, 13452), (11, 13497),

Gene: Publix_16 Start: 12858, Stop: 13157, Start Num: 5
Candidate Starts for Publix_16:
(Start: 4 @12834 has 1 MA's), (Start: 5 @12858 has 56 MA's), (7, 12876), (10, 12924), (11, 12969),

Gene: PuffyCat_16 Start: 12828, Stop: 13127, Start Num: 5
Candidate Starts for PuffyCat_16:
(Start: 4 @12804 has 1 MA's), (Start: 5 @12828 has 56 MA's), (7, 12846), (10, 12894), (11, 12939),

Gene: Quaker_16 Start: 13344, Stop: 13601, Start Num: 5
Candidate Starts for Quaker_16:
(Start: 5 @13344 has 56 MA's), (9, 13392),

Gene: Rira_16 Start: 12834, Stop: 13133, Start Num: 5
Candidate Starts for Rira_16:
(Start: 4 @12810 has 1 MA's), (Start: 5 @12834 has 56 MA's), (7, 12852), (10, 12900), (11, 12945),

Gene: Sippinontea_16 Start: 13345, Stop: 13632, Start Num: 5
Candidate Starts for Sippinontea_16:
(Start: 5 @13345 has 56 MA's), (7, 13363), (9, 13393),

Gene: Slizam_16 Start: 12834, Stop: 13133, Start Num: 5
Candidate Starts for Slizam_16:
(Start: 4 @12810 has 1 MA's), (Start: 5 @12834 has 56 MA's), (7, 12852), (10, 12900), (11, 12945),

Gene: Snuffles_17 Start: 13006, Stop: 13305, Start Num: 5
Candidate Starts for Snuffles_17:
(Start: 4 @12982 has 1 MA's), (Start: 5 @13006 has 56 MA's), (7, 13024), (10, 13072), (11, 13117),

Gene: Stem_16 Start: 12834, Stop: 13133, Start Num: 5
Candidate Starts for Stem_16:
(Start: 4 @12810 has 1 MA's), (Start: 5 @12834 has 56 MA's), (7, 12852), (10, 12900), (11, 12945),

Gene: TinyTruffula_16 Start: 12903, Stop: 13202, Start Num: 5
Candidate Starts for TinyTruffula_16:

(Start: 4 @12879 has 1 MA's), (Start: 5 @12903 has 56 MA's), (7, 12921), (10, 12969), (11, 13014),

Gene: TomBrady12_16 Start: 12811, Stop: 13134, Start Num: 4

Candidate Starts for TomBrady12_16:

(Start: 4 @12811 has 1 MA's), (Start: 5 @12835 has 56 MA's), (7, 12853), (10, 12901), (11, 12946),

Gene: Trackstar_16 Start: 12903, Stop: 13202, Start Num: 5

Candidate Starts for Trackstar_16:

(Start: 4 @12879 has 1 MA's), (Start: 5 @12903 has 56 MA's), (7, 12921), (10, 12969), (11, 13014),

Gene: Trireme_16 Start: 12901, Stop: 13200, Start Num: 5

Candidate Starts for Trireme_16:

(Start: 4 @12877 has 1 MA's), (Start: 5 @12901 has 56 MA's), (7, 12919), (10, 12967), (11, 13012),

Gene: Upsilon_16 Start: 13386, Stop: 13673, Start Num: 5

Candidate Starts for Upsilon_16:

(Start: 4 @13362 has 1 MA's), (Start: 5 @13386 has 56 MA's), (7, 13404), (10, 13452), (11, 13497),

Gene: VitulaEligans_16 Start: 13419, Stop: 13706, Start Num: 5

Candidate Starts for VitulaEligans_16:

(Start: 4 @13395 has 1 MA's), (Start: 5 @13419 has 56 MA's), (7, 13437), (10, 13485), (11, 13530),

Gene: Wolfpack_16 Start: 13345, Stop: 13614, Start Num: 5

Candidate Starts for Wolfpack_16:

(Start: 5 @13345 has 56 MA's), (7, 13363), (9, 13393),

Gene: Yami_16 Start: 12786, Stop: 13085, Start Num: 5

Candidate Starts for Yami_16:

(Start: 4 @12762 has 1 MA's), (Start: 5 @12786 has 56 MA's), (7, 12804), (10, 12852), (11, 12897),