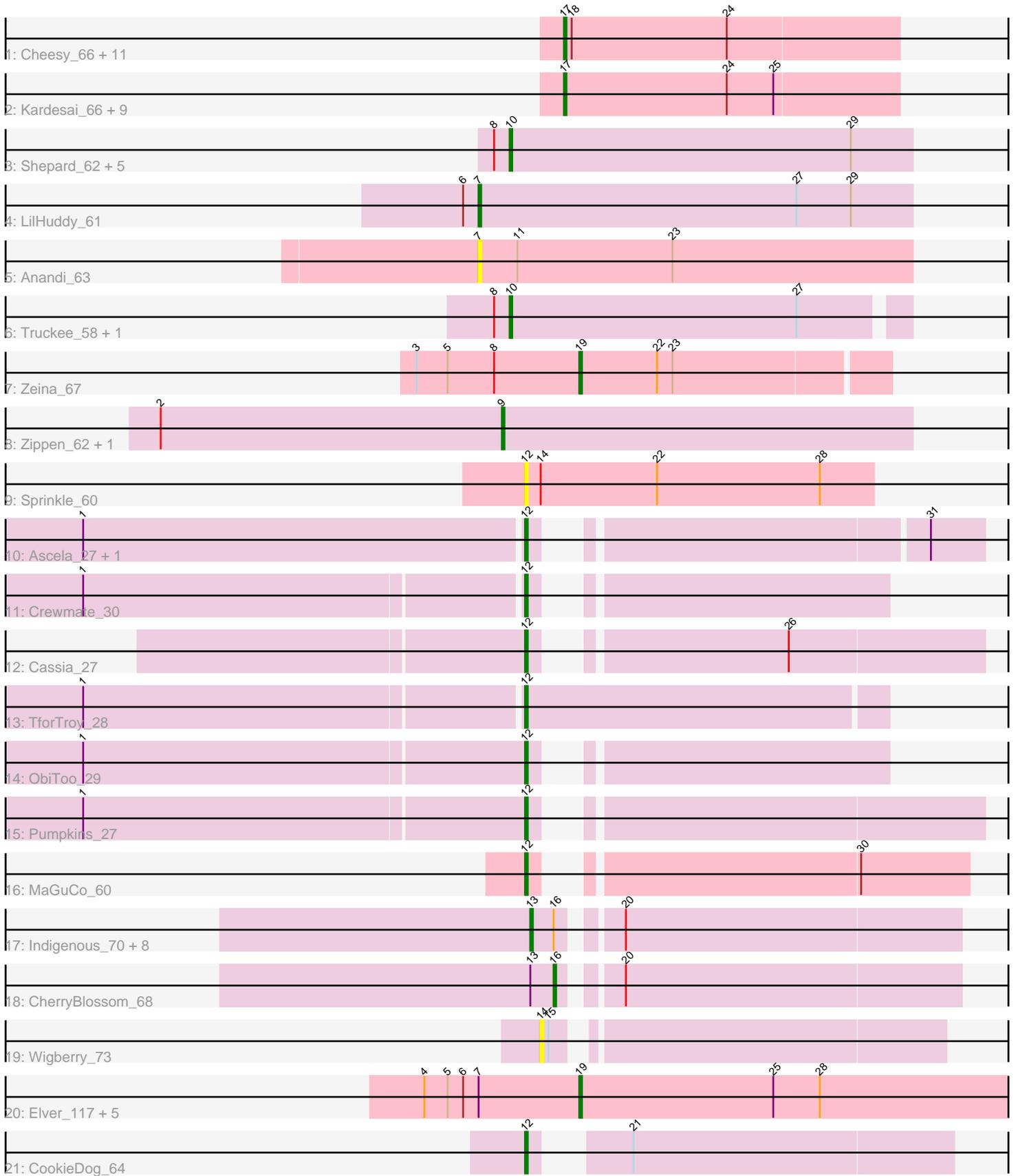


Pham 291173



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 291173 Report

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

Pham number 291173 has 62 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Cheesy_66, Elsa_66, Arcadia_66, GoCrazy_63, Tribby_69, YoshiYama_67, Nason_66, Xenomorph_62, Correa_64, KeaneyLin_62, Bowling_67, Circum_67
- Track 2 : Kardesai_66, NapoleonB_67, Dynamite_66, Heisenberger_65, Mooshroom_67, JEGGS_65, Benllo_63, Hankly_65, Mudcat_62, BenitoAntonio_64
- Track 3 : Shepard_62, Tipton_61, Chlochlo_60, Bouchard_60, Tokki_65, Phaby_62
- Track 4 : LilHuddy_61
- Track 5 : Anandi_63
- Track 6 : Truckee_58, Makai_60
- Track 7 : Zeina_67
- Track 8 : Zippen_62, Inked_63
- Track 9 : Sprinkle_60
- Track 10 : Ascela_27, lter_27
- Track 11 : Crewmate_30
- Track 12 : Cassia_27
- Track 13 : TforTroy_28
- Track 14 : ObiToo_29
- Track 15 : Pumpkins_27
- Track 16 : MaGuCo_60
- Track 17 : Indigenous_70, IceWarrior_67, FidgetOrca_70, Namu_69, Hoshi_69, TonyStarch_67, Meibysrarus_66, Jaylociraptor_68, Maya_68
- Track 18 : CherryBlossom_68
- Track 19 : Wigberry_73
- Track 20 : Elver_117, Gandionco_114, Paella_117, Kureo_115, Marianna39_115, JeNeSaisPas_112
- Track 21 : CookieDog_64

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

The start number called the most often in the published annotations is 17, it was called in 21 of the 53 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_66, BenitoAntonio_64, Benllo_63, Bowling_67, Cheesy_66, Circum_67, Correa_64, Dynamite_66, Elsa_66, GoCrazy_63, Hankly_65, Heisenberger_65, JEGGS_65, Kardesai_66, KeaneyLin_62, Mooshroom_67, Mudcat_62, NapoleonB_67, Nason_66, Tribby_69, Xenomorph_62, YoshiYama_67,

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

-

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

- Anandi_63, Ascela_27, Bouchard_60, Cassia_27, CherryBlossom_68, Chlochlo_60, CookieDog_64, Crewmate_30, Elver_117, FidgetOrca_70, Gandionco_114, Hoshi_69, IceWarrior_67, Indigenous_70, Inked_63, Iter_27, Jaylociraptor_68, JeNeSaisPas_112, Kureo_115, LilHuddy_61, MaGuCo_60, Makai_60, Marianna39_115, Maya_68, Meibysrarus_66, Namu_69, ObiToo_29, Paella_117, Phaby_62, Pumpkins_27, Shepard_62, Sprinkle_60, TforTroy_28, Tipton_61, Tokki_65, TonyStarch_67, Truckee_58, Wigberry_73, Zeina_67, Zippen_62,

Summary by start number:

Start 7:

- Found in 8 of 62 (12.9%) of genes in pham
- Manual Annotations of this start: 1 of 53
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Anandi_63 (AU4), LilHuddy_61 (AU2),

Start 9:

- Found in 2 of 62 (3.2%) of genes in pham
- Manual Annotations of this start: 2 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Inked_63 (AU7), Zippen_62 (AU7),

Start 10:

- Found in 8 of 62 (12.9%) of genes in pham
- Manual Annotations of this start: 7 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bouchard_60 (AU2), Chlochlo_60 (AU2), Makai_60 (AU5), Phaby_62 (AU2), Shepard_62 (AU2), Tipton_61 (AU2), Tokki_65 (AU2), Truckee_58 (AU5),

Start 12:

- Found in 10 of 62 (16.1%) of genes in pham
- Manual Annotations of this start: 9 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ascela_27 (AZ1), Cassia_27 (AZ1), CookieDog_64 (GA), Crewmate_30 (AZ1), Iter_27 (AZ1), MaGuCo_60 (AZ2), ObiToo_29 (AZ1), Pumpkins_27 (AZ1), Sprinkle_60 (AW), TforTroy_28 (AZ1),

Start 13:

- Found in 10 of 62 (16.1%) of genes in pham
- Manual Annotations of this start: 9 of 53
- Called 90.0% of time when present
- Phage (with cluster) where this start called: FidgetOrca_70 (BI1), Hoshi_69 (BI1), IceWarrior_67 (BI1), Indigenous_70 (BI1), Jaylociraptor_68 (BI1), Maya_68 (BI1),

Meibysrarus_66 (BI1), Namo_69 (BI1), TonyStarch_67 (BI1),

Start 14:

- Found in 2 of 62 (3.2%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Wigberry_73 (BI1),

Start 16:

- Found in 10 of 62 (16.1%) of genes in pham
- Manual Annotations of this start: 1 of 53
- Called 10.0% of time when present
- Phage (with cluster) where this start called: CherryBlossom_68 (BI1),

Start 17:

- Found in 22 of 62 (35.5%) of genes in pham
- Manual Annotations of this start: 21 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia_66 (AM), BenitoAntonio_64 (AM), Benllo_63 (AM), Bowling_67 (AM), Cheesy_66 (AM), Circum_67 (AM), Correa_64 (AM), Dynamite_66 (AM), Elsa_66 (AM), GoCrazy_63 (AM), Hankly_65 (AM), Heisenberger_65 (AM), JEGGS_65 (AM), Kardesai_66 (AM), KeaneyLin_62 (AM), Mooshroom_67 (AM), Mudcat_62 (AM), NapoleonB_67 (AM), Nason_66 (AM), Tribby_69 (AM), Xenomorph_62 (AM), YoshiYama_67 (AM),

Start 19:

- Found in 7 of 62 (11.3%) of genes in pham
- Manual Annotations of this start: 3 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver_117 (FK), Gandionco_114 (FK), JeNeSaisPas_112 (FK), Kureo_115 (FK), Marianna39_115 (FK), Paella_117 (FK), Zeina_67 (AU6),

Summary by clusters:

There are 12 clusters represented in this pham: GA, AM, AU2, AU5, AU4, AU7, AU6, AW, AZ1, AZ2, FK, BI1,

Info for manual annotations of cluster AM:

- Start number 17 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AU2:

- Start number 7 was manually annotated 1 time for cluster AU2.
- Start number 10 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU5:

- Start number 10 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 19 was manually annotated 1 time for cluster AU6.

Info for manual annotations of cluster AU7:

- Start number 9 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AZ1:

- Start number 12 was manually annotated 7 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 12 was manually annotated 1 time for cluster AZ2.

Info for manual annotations of cluster BI1:

- Start number 13 was manually annotated 9 times for cluster BI1.
- Start number 16 was manually annotated 1 time for cluster BI1.

Info for manual annotations of cluster FK:

- Start number 19 was manually annotated 2 times for cluster FK.

Info for manual annotations of cluster GA:

- Start number 12 was manually annotated 1 time for cluster GA.

Gene Information:

Gene: Anandi_63 Start: 43194, Stop: 43361, Start Num: 7

Candidate Starts for Anandi_63:

(Start: 7 @43194 has 1 MA's), (11, 43209), (23, 43269),

Gene: Arcadia_66 Start: 42435, Stop: 42563, Start Num: 17

Candidate Starts for Arcadia_66:

(Start: 17 @42435 has 21 MA's), (18, 42438), (24, 42498),

Gene: Ascela_27 Start: 22290, Stop: 22442, Start Num: 12

Candidate Starts for Ascela_27:

(1, 22122), (Start: 12 @22290 has 9 MA's), (31, 22422),

Gene: BenitoAntonio_64 Start: 41457, Stop: 41585, Start Num: 17

Candidate Starts for BenitoAntonio_64:

(Start: 17 @41457 has 21 MA's), (24, 41520), (25, 41538),

Gene: Benllo_63 Start: 42135, Stop: 42263, Start Num: 17

Candidate Starts for Benllo_63:

(Start: 17 @42135 has 21 MA's), (24, 42198), (25, 42216),

Gene: Bouchard_60 Start: 43121, Stop: 43276, Start Num: 10

Candidate Starts for Bouchard_60:

(8, 43115), (Start: 10 @43121 has 7 MA's), (29, 43253),

Gene: Bowling_67 Start: 42424, Stop: 42552, Start Num: 17

Candidate Starts for Bowling_67:

(Start: 17 @42424 has 21 MA's), (18, 42427), (24, 42487),

Gene: Cassia_27 Start: 22739, Stop: 22894, Start Num: 12

Candidate Starts for Cassia_27:

(Start: 12 @22739 has 9 MA's), (26, 22820),

Gene: Cheesy_66 Start: 41658, Stop: 41786, Start Num: 17

Candidate Starts for Cheesy_66:

(Start: 17 @41658 has 21 MA's), (18, 41661), (24, 41721),

Gene: CherryBlossom_68 Start: 43842, Stop: 43988, Start Num: 16

Candidate Starts for CherryBlossom_68:

(Start: 13 @43833 has 9 MA's), (Start: 16 @43842 has 1 MA's), (20, 43860),

Gene: Chlochlo_60 Start: 42647, Stop: 42802, Start Num: 10

Candidate Starts for Chlochlo_60:

(8, 42641), (Start: 10 @42647 has 7 MA's), (29, 42779),

Gene: Circum_67 Start: 42225, Stop: 42353, Start Num: 17

Candidate Starts for Circum_67:

(Start: 17 @42225 has 21 MA's), (18, 42228), (24, 42288),

Gene: CookieDog_64 Start: 37869, Stop: 38015, Start Num: 12

Candidate Starts for CookieDog_64:

(Start: 12 @37869 has 9 MA's), (21, 37893),

Gene: Correa_64 Start: 41229, Stop: 41357, Start Num: 17

Candidate Starts for Correa_64:

(Start: 17 @41229 has 21 MA's), (18, 41232), (24, 41292),

Gene: Crewmate_30 Start: 23033, Stop: 23152, Start Num: 12

Candidate Starts for Crewmate_30:

(1, 22868), (Start: 12 @23033 has 9 MA's),

Gene: Dynamite_66 Start: 42238, Stop: 42366, Start Num: 17

Candidate Starts for Dynamite_66:

(Start: 17 @42238 has 21 MA's), (24, 42301), (25, 42319),

Gene: Elsa_66 Start: 42435, Stop: 42563, Start Num: 17

Candidate Starts for Elsa_66:

(Start: 17 @42435 has 21 MA's), (18, 42438), (24, 42498),

Gene: Elver_117 Start: 65001, Stop: 65186, Start Num: 19

Candidate Starts for Elver_117:

(4, 64941), (5, 64950), (6, 64956), (Start: 7 @64962 has 1 MA's), (Start: 19 @65001 has 3 MA's), (25, 65076), (28, 65094),

Gene: FidgetOrca_70 Start: 44369, Stop: 44524, Start Num: 13

Candidate Starts for FidgetOrca_70:

(Start: 13 @44369 has 9 MA's), (Start: 16 @44378 has 1 MA's), (20, 44396),

Gene: Gandionco_114 Start: 63813, Stop: 63998, Start Num: 19

Candidate Starts for Gandionco_114:

(4, 63753), (5, 63762), (6, 63768), (Start: 7 @63774 has 1 MA's), (Start: 19 @63813 has 3 MA's), (25, 63888), (28, 63906),

Gene: GoCrazy_63 Start: 41690, Stop: 41818, Start Num: 17

Candidate Starts for GoCrazy_63:
(Start: 17 @41690 has 21 MA's), (18, 41693), (24, 41753),

Gene: Hankly_65 Start: 41306, Stop: 41434, Start Num: 17
Candidate Starts for Hankly_65:
(Start: 17 @41306 has 21 MA's), (24, 41369), (25, 41387),

Gene: Heisenberger_65 Start: 41644, Stop: 41772, Start Num: 17
Candidate Starts for Heisenberger_65:
(Start: 17 @41644 has 21 MA's), (24, 41707), (25, 41725),

Gene: Hoshi_69 Start: 43976, Stop: 44131, Start Num: 13
Candidate Starts for Hoshi_69:
(Start: 13 @43976 has 9 MA's), (Start: 16 @43985 has 1 MA's), (20, 44003),

Gene: IceWarrior_67 Start: 43652, Stop: 43807, Start Num: 13
Candidate Starts for IceWarrior_67:
(Start: 13 @43652 has 9 MA's), (Start: 16 @43661 has 1 MA's), (20, 43679),

Gene: Indigenous_70 Start: 44373, Stop: 44528, Start Num: 13
Candidate Starts for Indigenous_70:
(Start: 13 @44373 has 9 MA's), (Start: 16 @44382 has 1 MA's), (20, 44400),

Gene: Inked_63 Start: 43912, Stop: 44070, Start Num: 9
Candidate Starts for Inked_63:
(2, 43780), (Start: 9 @43912 has 2 MA's),

Gene: Iter_27 Start: 22290, Stop: 22442, Start Num: 12
Candidate Starts for Iter_27:
(1, 22122), (Start: 12 @22290 has 9 MA's), (31, 22422),

Gene: JEGGS_65 Start: 41723, Stop: 41851, Start Num: 17
Candidate Starts for JEGGS_65:
(Start: 17 @41723 has 21 MA's), (24, 41786), (25, 41804),

Gene: Jaylociraptor_68 Start: 43969, Stop: 44124, Start Num: 13
Candidate Starts for Jaylociraptor_68:
(Start: 13 @43969 has 9 MA's), (Start: 16 @43978 has 1 MA's), (20, 43996),

Gene: JeNeSaisPas_112 Start: 64419, Stop: 64604, Start Num: 19
Candidate Starts for JeNeSaisPas_112:
(4, 64359), (5, 64368), (6, 64374), (Start: 7 @64380 has 1 MA's), (Start: 19 @64419 has 3 MA's), (25, 64494), (28, 64512),

Gene: Kardesai_66 Start: 42032, Stop: 42160, Start Num: 17
Candidate Starts for Kardesai_66:
(Start: 17 @42032 has 21 MA's), (24, 42095), (25, 42113),

Gene: KeaneyLin_62 Start: 41690, Stop: 41818, Start Num: 17
Candidate Starts for KeaneyLin_62:
(Start: 17 @41690 has 21 MA's), (18, 41693), (24, 41753),

Gene: Kureo_115 Start: 64009, Stop: 64194, Start Num: 19

Candidate Starts for Kureo_115:

(4, 63949), (5, 63958), (6, 63964), (Start: 7 @63970 has 1 MA's), (Start: 19 @64009 has 3 MA's), (25, 64084), (28, 64102),

Gene: LilHuddy_61 Start: 42935, Stop: 43102, Start Num: 7

Candidate Starts for LilHuddy_61:

(6, 42929), (Start: 7 @42935 has 1 MA's), (27, 43058), (29, 43079),

Gene: MaGuCo_60 Start: 42542, Stop: 42691, Start Num: 12

Candidate Starts for MaGuCo_60:

(Start: 12 @42542 has 9 MA's), (30, 42650),

Gene: Makai_60 Start: 43038, Stop: 43187, Start Num: 10

Candidate Starts for Makai_60:

(8, 43032), (Start: 10 @43038 has 7 MA's), (27, 43149),

Gene: Marianna39_115 Start: 64424, Stop: 64609, Start Num: 19

Candidate Starts for Marianna39_115:

(4, 64364), (5, 64373), (6, 64379), (Start: 7 @64385 has 1 MA's), (Start: 19 @64424 has 3 MA's), (25, 64499), (28, 64517),

Gene: Maya_68 Start: 43983, Stop: 44138, Start Num: 13

Candidate Starts for Maya_68:

(Start: 13 @43983 has 9 MA's), (Start: 16 @43992 has 1 MA's), (20, 44010),

Gene: Meibysrarus_66 Start: 43346, Stop: 43501, Start Num: 13

Candidate Starts for Meibysrarus_66:

(Start: 13 @43346 has 9 MA's), (Start: 16 @43355 has 1 MA's), (20, 43373),

Gene: Mooshroom_67 Start: 42032, Stop: 42160, Start Num: 17

Candidate Starts for Mooshroom_67:

(Start: 17 @42032 has 21 MA's), (24, 42095), (25, 42113),

Gene: Mudcat_62 Start: 43081, Stop: 43209, Start Num: 17

Candidate Starts for Mudcat_62:

(Start: 17 @43081 has 21 MA's), (24, 43144), (25, 43162),

Gene: Namo_69 Start: 44320, Stop: 44475, Start Num: 13

Candidate Starts for Namo_69:

(Start: 13 @44320 has 9 MA's), (Start: 16 @44329 has 1 MA's), (20, 44347),

Gene: NapoleonB_67 Start: 42238, Stop: 42366, Start Num: 17

Candidate Starts for NapoleonB_67:

(Start: 17 @42238 has 21 MA's), (24, 42301), (25, 42319),

Gene: Nason_66 Start: 42435, Stop: 42563, Start Num: 17

Candidate Starts for Nason_66:

(Start: 17 @42435 has 21 MA's), (18, 42438), (24, 42498),

Gene: ObiToo_29 Start: 22773, Stop: 22892, Start Num: 12

Candidate Starts for ObiToo_29:

(1, 22605), (Start: 12 @22773 has 9 MA's),

Gene: Paella_117 Start: 65589, Stop: 65774, Start Num: 19
Candidate Starts for Paella_117:
(4, 65529), (5, 65538), (6, 65544), (Start: 7 @65550 has 1 MA's), (Start: 19 @65589 has 3 MA's), (25, 65664), (28, 65682),

Gene: Phaby_62 Start: 43553, Stop: 43708, Start Num: 10
Candidate Starts for Phaby_62:
(8, 43547), (Start: 10 @43553 has 7 MA's), (29, 43685),

Gene: Pumpkins_27 Start: 23159, Stop: 23314, Start Num: 12
Candidate Starts for Pumpkins_27:
(1, 22991), (Start: 12 @23159 has 9 MA's),

Gene: Shepard_62 Start: 42806, Stop: 42961, Start Num: 10
Candidate Starts for Shepard_62:
(8, 42800), (Start: 10 @42806 has 7 MA's), (29, 42938),

Gene: Sprinkle_60 Start: 41394, Stop: 41528, Start Num: 12
Candidate Starts for Sprinkle_60:
(Start: 12 @41394 has 9 MA's), (14, 41400), (22, 41445), (28, 41508),

Gene: TforTroy_28 Start: 23051, Stop: 23188, Start Num: 12
Candidate Starts for TforTroy_28:
(1, 22886), (Start: 12 @23051 has 9 MA's),

Gene: Tipton_61 Start: 43327, Stop: 43482, Start Num: 10
Candidate Starts for Tipton_61:
(8, 43321), (Start: 10 @43327 has 7 MA's), (29, 43459),

Gene: Tokki_65 Start: 43157, Stop: 43312, Start Num: 10
Candidate Starts for Tokki_65:
(8, 43151), (Start: 10 @43157 has 7 MA's), (29, 43289),

Gene: TonyStarch_67 Start: 43718, Stop: 43873, Start Num: 13
Candidate Starts for TonyStarch_67:
(Start: 13 @43718 has 9 MA's), (Start: 16 @43727 has 1 MA's), (20, 43745),

Gene: Tribby_69 Start: 42615, Stop: 42743, Start Num: 17
Candidate Starts for Tribby_69:
(Start: 17 @42615 has 21 MA's), (18, 42618), (24, 42678),

Gene: Truckee_58 Start: 42828, Stop: 42977, Start Num: 10
Candidate Starts for Truckee_58:
(8, 42822), (Start: 10 @42828 has 7 MA's), (27, 42939),

Gene: Wigberry_73 Start: 44495, Stop: 44638, Start Num: 14
Candidate Starts for Wigberry_73:
(14, 44495), (15, 44498),

Gene: Xenomorph_62 Start: 42106, Stop: 42234, Start Num: 17
Candidate Starts for Xenomorph_62:
(Start: 17 @42106 has 21 MA's), (18, 42109), (24, 42169),

Gene: YoshiYama_67 Start: 42675, Stop: 42803, Start Num: 17

Candidate Starts for YoshiYama_67:

(Start: 17 @42675 has 21 MA's), (18, 42678), (24, 42738),

Gene: Zeina_67 Start: 42828, Stop: 42944, Start Num: 19

Candidate Starts for Zeina_67:

(3, 42765), (5, 42777), (8, 42795), (Start: 19 @42828 has 3 MA's), (22, 42858), (23, 42864),

Gene: Zippen_62 Start: 43612, Stop: 43770, Start Num: 9

Candidate Starts for Zippen_62:

(2, 43480), (Start: 9 @43612 has 2 MA's),