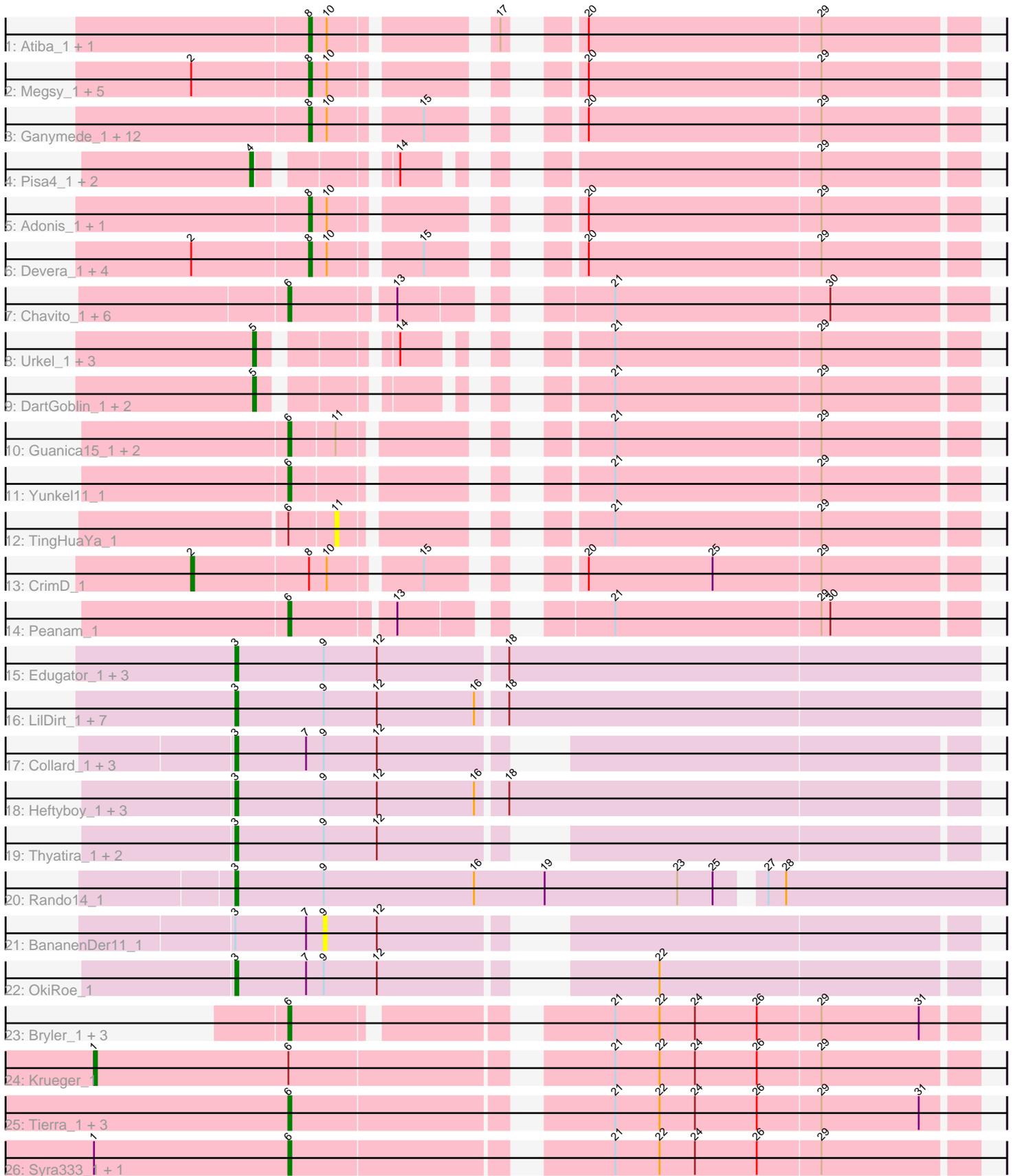


Pham 283697



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 283697 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283697 has 89 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Atiba_1, Tachez_1
- Track 2 : Megsy_1, Murucutumbu_1, Prithvi_1, LindNT_1, TreyKay_1, TaiwanKao_1
- Track 3 : Ganymede_1, Joy99_1, Clipper_1, CallaLilly_1, Pokerus_1, MacKat_1, CheetoDust_1, Mynx_1, YoureAdopted_1, MeaningOfLife_1, BaghaKamala_1, QuincyRose_1, Zavala_1
- Track 4 : Pisa4_1, Pisa1_1, Bern_1
- Track 5 : Adonis_1, Tiri_1
- Track 6 : Devera_1, LaterM_1, Illumine_1, Stinson_1, Dole_1
- Track 7 : Chavito_1, Dartin_1, McMater_1, Validus_1, Shaobing_1, Niklas_1, Richo_1
- Track 8 : Urkel_1, DrHayes_1, Anma_1, SamuelLPlaqson_1
- Track 9 : DartGoblin_1, Bella96_1, TiniBug_1
- Track 10 : Guanica15_1, LastHope_1, Efra2_1
- Track 11 : Yunkel11_1
- Track 12 : TingHuaYa_1
- Track 13 : CrimD_1
- Track 14 : Peanam_1
- Track 15 : Edugator_1, AlleyCat_1, Psycho_1, Dadosky_1
- Track 16 : LilDirt_1, Agent47_1, InvictusManeo_1, ViviJ_1, Gengar_1, Neighly_1, Leston_1, Larva_1
- Track 17 : Collard_1, Paola_1, Guillsminger_1, DoubleChamp_1
- Track 18 : Heftyboy_1, Waterfoul_1, SoSeph_1, Kratio_1
- Track 19 : Thyatira_1, Feyre_1, Miryou_1
- Track 20 : Rando14_1
- Track 21 : BananenDer11_1
- Track 22 : OkiRoe_1
- Track 23 : Bryler_1, Cain_1, Phrank_1, Sunflower1121_1
- Track 24 : Krueger_1
- Track 25 : Tierra_1, Unicorn_1, Shadow1_1, PhelpsODU_1
- Track 26 : Syra333_1, Tigress9_1

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

The start number called the most often in the published annotations is 8, it was called in 27 of the 74 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adonis_1, Atiba_1, BaghaKamala_1, CallaLilly_1, CheetoDust_1, Clipper_1, Devera_1, Dole_1, Ganymede_1, Illumine_1, Joy99_1, LaterM_1, LindNT_1, MacKat_1, MeaningOfLife_1, Megsy_1, Murucutumbu_1, Mynx_1, Pokerus_1, Prithvi_1, QuincyRose_1, Stinson_1, Tachez_1, TaiwanKao_1, Tiri_1, TreyKay_1, YoureAdopted_1, Zavala_1,

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

- CrimD_1,

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

- Agent47_1, AlleyCat_1, Anma_1, BananenDer11_1, Bella96_1, Bern_1, Bryler_1, Cain_1, Chavito_1, Collard_1, Dadosky_1, DartGoblin_1, Dartin_1, DoubleChamp_1, DrHayes_1, Edugator_1, Efra2_1, Feyre_1, Gengar_1, Guanica15_1, Guillsminger_1, Heftyboy_1, InvictusManeo_1, Kratio_1, Krueger_1, Larva_1, LastHope_1, Leston_1, LilDirt_1, McMater_1, Miryou_1, Neighly_1, Niklas_1, OkiRoe_1, Paola_1, Peanam_1, PhelpsODU_1, Phrank_1, Pisa1_1, Pisa4_1, Psycho_1, Rando14_1, Richo_1, SamuelLPlaçon_1, Shadow1_1, Shaobing_1, SoSeph_1, Sunflower1121_1, Syra333_1, Thyatira_1, Tierra_1, Tigress9_1, TingHuaYa_1, TiniBug_1, Unicorn_1, Urkel_1, Validus_1, ViviJ_1, Waterfoul_1, Yunkel11_1,

Summary by start number:

Start 1:

- Found in 3 of 89 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 74
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Krueger_1 (K6),

Start 2:

- Found in 12 of 89 (13.5%) of genes in pham
- Manual Annotations of this start: 1 of 74
- Called 8.3% of time when present
- Phage (with cluster) where this start called: CrimD_1 (K1),

Start 3:

- Found in 26 of 89 (29.2%) of genes in pham
- Manual Annotations of this start: 22 of 74
- Called 96.2% of time when present
- Phage (with cluster) where this start called: Agent47_1 (K5), AlleyCat_1 (K5), Collard_1 (K5), Dadosky_1 (K5), DoubleChamp_1 (K5), Edugator_1 (K5), Feyre_1 (K5), Gengar_1 (K5), Guillsminger_1 (K5), Heftyboy_1 (K5), InvictusManeo_1 (K5), Kratio_1 (K5), Larva_1 (K5), Leston_1 (K5), LilDirt_1 (K5), Miryou_1 (K5), Neighly_1 (K3), OkiRoe_1 (K5), Paola_1 (K5), Psycho_1 (K5), Rando14_1 (K5), SoSeph_1 (K5), Thyatira_1 (K5), ViviJ_1 (K5), Waterfoul_1 (K5),

Start 4:

- Found in 3 of 89 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 74
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Bern_1 (K1), Pisa1_1 (K1), Pisa4_1 (K1),

Start 5:

- Found in 7 of 89 (7.9%) of genes in pham
- Manual Annotations of this start: 5 of 74
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anma_1 (K1), Bella96_1 (K1), DartGoblin_1 (K1), DrHayes_1 (K1), SamuelLPlaqsom_1 (K1), TiniBug_1 (K1), Urkel_1 (K1),

Start 6:

- Found in 24 of 89 (27.0%) of genes in pham
- Manual Annotations of this start: 17 of 74
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Bryler_1 (K6), Cain_1 (K6), Chavito_1 (K1), Dartin_1 (K1), Efra2_1 (K1), Guanica15_1 (K1), LastHope_1 (K1), McMater_1 (K1), Niklas_1 (K1), Peanam_1 (K1), PhelpsODU_1 (K6), Phrank_1 (K6), Richo_1 (K1), Shadow1_1 (K6), Shaobing_1 (K1), Sunflower1121_1 (K6), Syra333_1 (K6), Tierra_1 (K6), Tigress9_1 (K6), Unicorn_1 (K6), Validus_1 (K1), Yunkel11_1 (K1),

Start 8:

- Found in 29 of 89 (32.6%) of genes in pham
- Manual Annotations of this start: 27 of 74
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Adonis_1 (K1), Atiba_1 (K1), BaghaKamala_1 (K1), CallaLilly_1 (K1), CheetoDust_1 (K1), Clipper_1 (K1), Devera_1 (K1), Dole_1 (K1), Ganymede_1 (K1), Illumine_1 (K1), Joy99_1 (K1), LaterM_1 (K1), LindNT_1 (K1), MacKat_1 (K1), MeaningOfLife_1 (K1), Megsy_1 (K1), Murucutumbu_1 (K1), Mynx_1 (K1), Pokerus_1 (K1), Prithvi_1 (K1), QuincyRose_1 (K1), Stinson_1 (K1), Tachez_1 (K1), TaiwanKao_1 (K1), Tiri_1 (K1), TreyKay_1 (K1), YoureAdopted_1 (K1), Zavala_1 (K1),

Start 9:

- Found in 26 of 89 (29.2%) of genes in pham
- No Manual Annotations of this start.
- Called 3.8% of time when present
- Phage (with cluster) where this start called: BananenDer11_1 (K5),

Start 11:

- Found in 4 of 89 (4.5%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: TingHuaYa_1 (K1),

Summary by clusters:

There are 4 clusters represented in this pham: K3, K1, K6, K5,

Info for manual annotations of cluster K1:

- Start number 2 was manually annotated 1 time for cluster K1.
- Start number 4 was manually annotated 1 time for cluster K1.
- Start number 5 was manually annotated 5 times for cluster K1.

- Start number 6 was manually annotated 8 times for cluster K1.
- Start number 8 was manually annotated 27 times for cluster K1.

Info for manual annotations of cluster K5:

- Start number 3 was manually annotated 22 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 1 was manually annotated 1 time for cluster K6.
- Start number 6 was manually annotated 9 times for cluster K6.

Gene Information:

Gene: Adonis_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for Adonis_1:

(Start: 8 @79 has 27 MA's), (10, 85), (20, 145), (29, 223),

Gene: Agent47_1 Start: 55, Stop: 303, Start Num: 3

Candidate Starts for Agent47_1:

(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (16, 136), (18, 145),

Gene: AlleyCat_1 Start: 55, Stop: 303, Start Num: 3

Candidate Starts for AlleyCat_1:

(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (18, 145),

Gene: Anma_1 Start: 61, Stop: 261, Start Num: 5

Candidate Starts for Anma_1:

(Start: 5 @61 has 5 MA's), (14, 97), (21, 142), (29, 211),

Gene: Atiba_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for Atiba_1:

(Start: 8 @79 has 27 MA's), (10, 85), (17, 130), (20, 145), (29, 223),

Gene: BaghaKamala_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for BaghaKamala_1:

(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: BananenDer11_1 Start: 83, Stop: 277, Start Num: 9

Candidate Starts for BananenDer11_1:

(Start: 3 @53 has 22 MA's), (7, 77), (9, 83), (12, 101),

Gene: Bella96_1 Start: 61, Stop: 261, Start Num: 5

Candidate Starts for Bella96_1:

(Start: 5 @61 has 5 MA's), (21, 142), (29, 211),

Gene: Bern_1 Start: 60, Stop: 260, Start Num: 4

Candidate Starts for Bern_1:

(Start: 4 @60 has 1 MA's), (14, 96), (29, 210),

Gene: Bryler_1 Start: 114, Stop: 323, Start Num: 6

Candidate Starts for Bryler_1:

(Start: 6 @114 has 17 MA's), (21, 204), (22, 219), (24, 231), (26, 252), (29, 273), (31, 306),

Gene: Cain_1 Start: 114, Stop: 323, Start Num: 6

Candidate Starts for Cain_1:

(Start: 6 @114 has 17 MA's), (21, 204), (22, 219), (24, 231), (26, 252), (29, 273), (31, 306),

Gene: CallaLilly_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for CallaLilly_1:

(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Chavito_1 Start: 71, Stop: 280, Start Num: 6

Candidate Starts for Chavito_1:

(Start: 6 @71 has 17 MA's), (13, 104), (21, 158), (30, 230),

Gene: CheetoDust_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for CheetoDust_1:

(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Clipper_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for Clipper_1:

(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Collard_1 Start: 53, Stop: 277, Start Num: 3

Candidate Starts for Collard_1:

(Start: 3 @53 has 22 MA's), (7, 77), (9, 83), (12, 101),

Gene: CrimD_1 Start: 40, Stop: 273, Start Num: 2

Candidate Starts for CrimD_1:

(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (25, 187), (29, 223),

Gene: Dadosky_1 Start: 55, Stop: 303, Start Num: 3

Candidate Starts for Dadosky_1:

(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (18, 145),

Gene: DartGoblin_1 Start: 61, Stop: 261, Start Num: 5

Candidate Starts for DartGoblin_1:

(Start: 5 @61 has 5 MA's), (21, 142), (29, 211),

Gene: Dartin_1 Start: 72, Stop: 278, Start Num: 6

Candidate Starts for Dartin_1:

(Start: 6 @72 has 17 MA's), (13, 105), (21, 159), (30, 231),

Gene: Devera_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for Devera_1:

(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Dole_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for Dole_1:

(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: DoubleChamp_1 Start: 53, Stop: 277, Start Num: 3

Candidate Starts for DoubleChamp_1:

(Start: 3 @53 has 22 MA's), (7, 77), (9, 83), (12, 101),

Gene: DrHayes_1 Start: 61, Stop: 261, Start Num: 5

Candidate Starts for DrHayes_1:

(Start: 5 @61 has 5 MA's), (14, 97), (21, 142), (29, 211),

Gene: Edugator_1 Start: 55, Stop: 303, Start Num: 3

Candidate Starts for Edugator_1:

(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (18, 145),

Gene: Efra2_1 Start: 72, Stop: 272, Start Num: 6

Candidate Starts for Efra2_1:

(Start: 6 @72 has 17 MA's), (11, 87), (21, 153), (29, 222),

Gene: Feyre_1 Start: 54, Stop: 278, Start Num: 3

Candidate Starts for Feyre_1:

(Start: 3 @54 has 22 MA's), (9, 84), (12, 102),

Gene: Ganymede_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for Ganymede_1:

(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Gengar_1 Start: 55, Stop: 303, Start Num: 3

Candidate Starts for Gengar_1:

(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (16, 136), (18, 145),

Gene: Guanica15_1 Start: 72, Stop: 272, Start Num: 6

Candidate Starts for Guanica15_1:

(Start: 6 @72 has 17 MA's), (11, 87), (21, 153), (29, 222),

Gene: Guillsminger_1 Start: 54, Stop: 278, Start Num: 3

Candidate Starts for Guillsminger_1:

(Start: 3 @54 has 22 MA's), (7, 78), (9, 84), (12, 102),

Gene: Heftyboy_1 Start: 54, Stop: 299, Start Num: 3

Candidate Starts for Heftyboy_1:

(Start: 3 @54 has 22 MA's), (9, 84), (12, 102), (16, 135), (18, 144),

Gene: Illumine_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for Illumine_1:

(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: InvictusManeo_1 Start: 55, Stop: 303, Start Num: 3

Candidate Starts for InvictusManeo_1:

(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (16, 136), (18, 145),

Gene: Joy99_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for Joy99_1:

(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Kratio_1 Start: 54, Stop: 302, Start Num: 3

Candidate Starts for Kratio_1:

(Start: 3 @54 has 22 MA's), (9, 84), (12, 102), (16, 135), (18, 144),

Gene: Krueger_1 Start: 49, Stop: 330, Start Num: 1
Candidate Starts for Krueger_1:
(Start: 1 @49 has 1 MA's), (Start: 6 @115 has 17 MA's), (21, 211), (22, 226), (24, 238), (26, 259), (29, 280),

Gene: Larva_1 Start: 55, Stop: 303, Start Num: 3
Candidate Starts for Larva_1:
(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (16, 136), (18, 145),

Gene: LastHope_1 Start: 71, Stop: 271, Start Num: 6
Candidate Starts for LastHope_1:
(Start: 6 @71 has 17 MA's), (11, 86), (21, 152), (29, 221),

Gene: LaterM_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for LaterM_1:
(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Leston_1 Start: 55, Stop: 303, Start Num: 3
Candidate Starts for Leston_1:
(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (16, 136), (18, 145),

Gene: LilDirt_1 Start: 55, Stop: 303, Start Num: 3
Candidate Starts for LilDirt_1:
(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (16, 136), (18, 145),

Gene: LindNT_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for LindNT_1:
(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (20, 145), (29, 223),

Gene: MacKat_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for MacKat_1:
(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: McMater_1 Start: 72, Stop: 278, Start Num: 6
Candidate Starts for McMater_1:
(Start: 6 @72 has 17 MA's), (13, 105), (21, 159), (30, 231),

Gene: MeaningOfLife_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for MeaningOfLife_1:
(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Megsy_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for Megsy_1:
(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (20, 145), (29, 223),

Gene: Miryou_1 Start: 54, Stop: 278, Start Num: 3
Candidate Starts for Miryou_1:
(Start: 3 @54 has 22 MA's), (9, 84), (12, 102),

Gene: Murucutumbu_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for Murucutumbu_1:
(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (20, 145), (29, 223),

Gene: Mynx_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for Mynx_1:
(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Neighly_1 Start: 55, Stop: 303, Start Num: 3
Candidate Starts for Neighly_1:
(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (16, 136), (18, 145),

Gene: Niklas_1 Start: 72, Stop: 278, Start Num: 6
Candidate Starts for Niklas_1:
(Start: 6 @72 has 17 MA's), (13, 105), (21, 159), (30, 231),

Gene: OkiRoe_1 Start: 54, Stop: 278, Start Num: 3
Candidate Starts for OkiRoe_1:
(Start: 3 @54 has 22 MA's), (7, 78), (9, 84), (12, 102), (22, 174),

Gene: Paola_1 Start: 54, Stop: 278, Start Num: 3
Candidate Starts for Paola_1:
(Start: 3 @54 has 22 MA's), (7, 78), (9, 84), (12, 102),

Gene: Peanam_1 Start: 72, Stop: 278, Start Num: 6
Candidate Starts for Peanam_1:
(Start: 6 @72 has 17 MA's), (13, 105), (21, 159), (29, 228), (30, 231),

Gene: PhelpsODU_1 Start: 115, Stop: 324, Start Num: 6
Candidate Starts for PhelpsODU_1:
(Start: 6 @115 has 17 MA's), (21, 205), (22, 220), (24, 232), (26, 253), (29, 274), (31, 307),

Gene: Phrank_1 Start: 114, Stop: 329, Start Num: 6
Candidate Starts for Phrank_1:
(Start: 6 @114 has 17 MA's), (21, 210), (22, 225), (24, 237), (26, 258), (29, 279), (31, 312),

Gene: Pisa1_1 Start: 60, Stop: 260, Start Num: 4
Candidate Starts for Pisa1_1:
(Start: 4 @60 has 1 MA's), (14, 96), (29, 210),

Gene: Pisa4_1 Start: 60, Stop: 260, Start Num: 4
Candidate Starts for Pisa4_1:
(Start: 4 @60 has 1 MA's), (14, 96), (29, 210),

Gene: Pokerus_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for Pokerus_1:
(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Prithvi_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for Prithvi_1:
(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (20, 145), (29, 223),

Gene: Psycho_1 Start: 55, Stop: 303, Start Num: 3
Candidate Starts for Psycho_1:
(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (18, 145),

Gene: QuincyRose_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for QuincyRose_1:
(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Rando14_1 Start: 53, Stop: 307, Start Num: 3
Candidate Starts for Rando14_1:
(Start: 3 @53 has 22 MA's), (9, 83), (16, 134), (19, 158), (23, 203), (25, 215), (27, 227), (28, 233),

Gene: Richo_1 Start: 72, Stop: 278, Start Num: 6
Candidate Starts for Richo_1:
(Start: 6 @72 has 17 MA's), (13, 105), (21, 159), (30, 231),

Gene: SamuelLPlaqson_1 Start: 61, Stop: 261, Start Num: 5
Candidate Starts for SamuelLPlaqson_1:
(Start: 5 @61 has 5 MA's), (14, 97), (21, 142), (29, 211),

Gene: Shadow1_1 Start: 115, Stop: 330, Start Num: 6
Candidate Starts for Shadow1_1:
(Start: 6 @115 has 17 MA's), (21, 211), (22, 226), (24, 238), (26, 259), (29, 280), (31, 313),

Gene: Shaobing_1 Start: 72, Stop: 278, Start Num: 6
Candidate Starts for Shaobing_1:
(Start: 6 @72 has 17 MA's), (13, 105), (21, 159), (30, 231),

Gene: SoSeph_1 Start: 54, Stop: 299, Start Num: 3
Candidate Starts for SoSeph_1:
(Start: 3 @54 has 22 MA's), (9, 84), (12, 102), (16, 135), (18, 144),

Gene: Stinson_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for Stinson_1:
(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Sunflower1121_1 Start: 114, Stop: 329, Start Num: 6
Candidate Starts for Sunflower1121_1:
(Start: 6 @114 has 17 MA's), (21, 210), (22, 225), (24, 237), (26, 258), (29, 279), (31, 312),

Gene: Syra333_1 Start: 115, Stop: 330, Start Num: 6
Candidate Starts for Syra333_1:
(Start: 1 @49 has 1 MA's), (Start: 6 @115 has 17 MA's), (21, 211), (22, 226), (24, 238), (26, 259), (29, 280),

Gene: Tachez_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for Tachez_1:
(Start: 8 @79 has 27 MA's), (10, 85), (17, 130), (20, 145), (29, 223),

Gene: TaiwanKao_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for TaiwanKao_1:
(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (20, 145), (29, 223),

Gene: Thyatira_1 Start: 54, Stop: 278, Start Num: 3
Candidate Starts for Thyatira_1:
(Start: 3 @54 has 22 MA's), (9, 84), (12, 102),

Gene: Tierra_1 Start: 115, Stop: 330, Start Num: 6
Candidate Starts for Tierra_1:
(Start: 6 @115 has 17 MA's), (21, 211), (22, 226), (24, 238), (26, 259), (29, 280), (31, 313),

Gene: Tigress9_1 Start: 115, Stop: 330, Start Num: 6
Candidate Starts for Tigress9_1:
(Start: 1 @49 has 1 MA's), (Start: 6 @115 has 17 MA's), (21, 211), (22, 226), (24, 238), (26, 259), (29, 280),

Gene: TingHuaYa_1 Start: 86, Stop: 271, Start Num: 11
Candidate Starts for TingHuaYa_1:
(Start: 6 @71 has 17 MA's), (11, 86), (21, 152), (29, 221),

Gene: TiniBug_1 Start: 61, Stop: 261, Start Num: 5
Candidate Starts for TiniBug_1:
(Start: 5 @61 has 5 MA's), (21, 142), (29, 211),

Gene: Tiri_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for Tiri_1:
(Start: 8 @79 has 27 MA's), (10, 85), (20, 145), (29, 223),

Gene: TreyKay_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for TreyKay_1:
(Start: 2 @40 has 1 MA's), (Start: 8 @79 has 27 MA's), (10, 85), (20, 145), (29, 223),

Gene: Unicorn_1 Start: 115, Stop: 324, Start Num: 6
Candidate Starts for Unicorn_1:
(Start: 6 @115 has 17 MA's), (21, 205), (22, 220), (24, 232), (26, 253), (29, 274), (31, 307),

Gene: Urkel_1 Start: 61, Stop: 261, Start Num: 5
Candidate Starts for Urkel_1:
(Start: 5 @61 has 5 MA's), (14, 97), (21, 142), (29, 211),

Gene: Validus_1 Start: 71, Stop: 280, Start Num: 6
Candidate Starts for Validus_1:
(Start: 6 @71 has 17 MA's), (13, 104), (21, 158), (30, 230),

Gene: ViviJ_1 Start: 55, Stop: 303, Start Num: 3
Candidate Starts for ViviJ_1:
(Start: 3 @55 has 22 MA's), (9, 85), (12, 103), (16, 136), (18, 145),

Gene: Waterfoul_1 Start: 54, Stop: 299, Start Num: 3
Candidate Starts for Waterfoul_1:
(Start: 3 @54 has 22 MA's), (9, 84), (12, 102), (16, 135), (18, 144),

Gene: YoureAdopted_1 Start: 79, Stop: 273, Start Num: 8
Candidate Starts for YoureAdopted_1:
(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),

Gene: Yunkel11_1 Start: 72, Stop: 272, Start Num: 6
Candidate Starts for Yunkel11_1:
(Start: 6 @72 has 17 MA's), (21, 153), (29, 222),

Gene: Zavala_1 Start: 79, Stop: 273, Start Num: 8

Candidate Starts for Zavala_1:

(Start: 8 @79 has 27 MA's), (10, 85), (15, 112), (20, 145), (29, 223),