





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 308296 Report

This analysis was run 06/27/26 on database version 652.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 308296 has 118 members, 22 are drafts.

Phages represented in each track:

- Track 1 : EastWest\_30
- Track 2 : Beans\_27
- Track 3 : Brent\_27, Franzy\_27
- Track 4 : Jawnski\_27
- Track 5 : NathanVaag\_27
- Track 6 : Piccoletto\_27
- Track 7 : King2\_27
- Track 8 : Shade\_29
- Track 9 : Wyborn\_30
- Track 10 : Jordan\_29, Zartrosa\_29, Sonny\_29
- Track 11 : StevieBAY\_29
- Track 12 : BossLady\_29
- Track 13 : Martha\_29, TaeYoung\_29, Grekaycon\_29
- Track 14 : BarretLemon\_29, Timinator\_29, LeeroyJ\_29
- Track 15 : GravityBall\_29, BigDome\_29
- Track 16 : Pippa\_29
- Track 17 : JKerns\_29
- Track 18 : Ren19\_44, Nikan\_46
- Track 19 : Ollypop\_46
- Track 20 : SilentRX\_40
- Track 21 : AWGoat\_38
- Track 22 : Aikyam\_28, CookieBear\_28, RadFad\_28, Richie\_28, Lasker\_28, Auxilium\_28, MidnightRain\_28, Hillester\_28, YoungHarleezy\_28, MaterMagnus\_28, BenchScraper\_28
- Track 23 : Sashimi\_26
- Track 24 : Ding\_28
- Track 25 : BasketStar\_28, Windest\_29, BlueShadow\_28
- Track 26 : Globfish\_28
- Track 27 : ThayneTheZag\_28
- Track 28 : SpicyFrank\_28
- Track 29 : ToastyFinz\_22
- Track 30 : Tubberson\_23, DaRealMyers\_23, SoJo\_23
- Track 31 : Picard\_22

- Track 32 : Mojorita\_22
- Track 33 : SV1\_22
- Track 34 : Raleigh\_23
- Track 35 : Darolandstone\_23
- Track 36 : PapayaSalad\_22, Bioscum\_22, Austintatious\_22, Lishka\_22, Ididsumtinwong\_22
- Track 37 : Eklok\_21, AxeJC\_21, FrumpyGal\_21, Piccadilly\_21, Eastland\_21
- Track 38 : ArizonaGT\_21, Ignacio\_21, HFrancette\_21, Cumberbatch\_21
- Track 39 : Vondra\_21
- Track 40 : Schlegelian\_21
- Track 41 : Schmidt\_22
- Track 42 : LilJank\_36, Trax\_36
- Track 43 : DonkeyMan\_22
- Track 44 : DearBasketball\_25, DinoNuggs\_23, Reyja\_23
- Track 45 : Heinz\_22, Hibiscus\_22, Jojo24\_22
- Track 46 : Santhid\_22
- Track 47 : Tarzan\_22
- Track 48 : FlameThrower\_23
- Track 49 : Katzastrophic\_23
- Track 50 : Celaena\_23, Bachaco\_23
- Track 51 : HorseRider\_6, TailX7\_6, Jalloh\_6
- Track 52 : CarefulCloud\_6
- Track 53 : CyranoPS\_6
- Track 54 : Eileen\_26, Peas\_26
- Track 55 : LilyBell\_26
- Track 56 : HotPotato\_26
- Track 57 : Henrique\_27
- Track 58 : Pucara\_26
- Track 59 : RootBeer\_23
- Track 60 : Karkharias\_26
- Track 61 : Pigu\_23
- Track 62 : Gibbzilla\_25
- Track 63 : MargaretKali\_24, Kumotta\_24
- Track 64 : MillySue\_26
- Track 65 : IsHungry\_26
- Track 66 : Gusanita\_24
- Track 67 : GUPitcher\_23
- Track 68 : BlackSpider\_25
- Track 69 : Cassini\_25
- Track 70 : Maja\_24
- Track 71 : Scotia\_27
- Track 72 : CocoCinnamon\_27
- Track 73 : NoSwimming\_27
- Track 74 : Khuang\_21

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

The start number called the most often in the published annotations is 63, it was called in 24 of the 96 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArizonaGT\_21, Austintatious\_22, AxeJC\_21, Bioscum\_22, Cumberbatch\_21, DaRealMyers\_23, Darolandstone\_23, Eastland\_21, Eklok\_21, FrumpyGal\_21, HFrancette\_21, Ididsumtinwong\_22, Ignacio\_21, Lishka\_22, Mojorita\_22, PapayaSalad\_22, Picard\_22, Piccadilly\_21, Raleigh\_23, SV1\_22, Schlegelian\_21, SoJo\_23, ToastyFinz\_22, Tubberson\_23, Vondra\_21,

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

- Schmidt\_22,

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

- AWGoat\_38, Aikyam\_28, Auxilium\_28, Bachaco\_23, BarretLemon\_29, BasketStar\_28, Beans\_27, BenchScraper\_28, BigDome\_29, BlackSpider\_25, BlueShadow\_28, BossLady\_29, Brent\_27, CarefulCloud\_6, Cassini\_25, Celaena\_23, CocoCinnamon\_27, CookieBear\_28, CyranoPS\_6, DearBasketball\_25, Ding\_28, DinoNuggs\_23, DonkeyMan\_22, EastWest\_30, Eileen\_26, FlameThrower\_23, Franzy\_27, GUPitcher\_23, Gibbzilla\_25, Globfish\_28, GravityBall\_29, Grekaycon\_29, Gusanita\_24, Heinz\_22, Henrique\_27, Hibiscus\_22, Hillester\_28, HorseRider\_6, HotPotato\_26, IsHungry\_26, JKerns\_29, Jalloh\_6, Jawnski\_27, Jojo24\_22, Jordan\_29, Karkharias\_26, Katzastrophic\_23, Khuang\_21, King2\_27, Kumotta\_24, Lasker\_28, LeeroyJ\_29, LilJank\_36, LilyBell\_26, Maja\_24, MargaretKali\_24, Martha\_29, MaterMagnus\_28, MidnightRain\_28, MillySue\_26, NathanVaag\_27, Nikan\_46, NoSwimming\_27, Ollypop\_46, Peas\_26, Piccoletto\_27, Pigu\_23, Pippa\_29, Pucara\_26, RadFad\_28, Ren19\_44, Reyja\_23, Richie\_28, RootBeer\_23, Santhid\_22, Sashimi\_26, Scotia\_27, Shade\_29, SilentRX\_40, Sonny\_29, SpicyFrank\_28, StevieBAY\_29, TaeYoung\_29, TailX7\_6, Tarzan\_22, ThayneTheZag\_28, Timinator\_29, Trax\_36, Windest\_29, Wyborn\_30, YoungHarleezy\_28, Zartrosa\_29,

### Summary by start number:

Start 29:

- Found in 6 of 118 ( 5.1% ) of genes in pham
- Manual Annotations of this start: 4 of 96
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BarretLemon\_29 (AO2), LeeroyJ\_29 (AO2), StevieBAY\_29 (AO2), Timinator\_29 (AO2),

Start 30:

- Found in 23 of 118 ( 19.5% ) of genes in pham
- Manual Annotations of this start: 18 of 96
- Called 82.6% of time when present
- Phage (with cluster) where this start called: Beans\_27 (AO1), BigDome\_29 (AO2), BossLady\_29 (AO2), Brent\_27 (AO1), Franzy\_27 (AO1), GravityBall\_29 (AO2), Grekaycon\_29 (AO2), JKerns\_29 (AO2), Jawnski\_27 (AO1), Jordan\_29 (AO2), King2\_27 (AO1), Martha\_29 (AO2), NathanVaag\_27 (AO1), Piccoletto\_27 (AO1), Pippa\_29 (AO2), Shade\_29 (AO2), Sonny\_29 (AO2), TaeYoung\_29 (AO2), Zartrosa\_29 (AO2),

Start 31:

- Found in 3 of 118 ( 2.5% ) of genes in pham
- Manual Annotations of this start: 1 of 96
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Nikan\_46 (AP2), Ollypop\_46 (AP2), Ren19\_44 (AP2),

#### Start 32:

- Found in 2 of 118 ( 1.7% ) of genes in pham
- Manual Annotations of this start: 2 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat\_38 (AP4), SilentRX\_40 (AP4),

#### Start 35:

- Found in 4 of 118 ( 3.4% ) of genes in pham
- Manual Annotations of this start: 4 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bachaco\_23 (EB), Celaena\_23 (EB), FlameThrower\_23 (EB), Katzastrophic\_23 (EB),

#### Start 39:

- Found in 1 of 118 ( 0.8% ) of genes in pham
- Manual Annotations of this start: 1 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EastWest\_30 (AO),

#### Start 40:

- Found in 1 of 118 ( 0.8% ) of genes in pham
- Manual Annotations of this start: 1 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wyborn\_30 (AO2),

#### Start 44:

- Found in 9 of 118 ( 7.6% ) of genes in pham
- Manual Annotations of this start: 7 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DearBasketball\_25 (DY), DinoNuggs\_23 (DY), DonkeyMan\_22 (DY), Heinz\_22 (DY), Hibiscus\_22 (DY), Jojo24\_22 (DY), Reyja\_23 (DY), Santhid\_22 (DY), Tarzan\_22 (DY),

#### Start 46:

- Found in 32 of 118 ( 27.1% ) of genes in pham
- Manual Annotations of this start: 23 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikyam\_28 (AY), Auxilium\_28 (AY), BasketStar\_28 (AY), BenchScraper\_28 (AY), BlueShadow\_28 (AY), CookieBear\_28 (AY), Ding\_28 (AY), Eileen\_26 (FA), GUPitcher\_23 (FJ), Gibbzilla\_25 (FB), Globfish\_28 (AY), Gusanita\_24 (FF), Henrique\_27 (FA), Hillester\_28 (AY), HotPotato\_26 (FA), IsHungry\_26 (FF), Karkharias\_26 (FA), Khuang\_21 (FS), Lasker\_28 (AY), LilyBell\_26 (FA), MaterMagnus\_28 (AY), MidnightRain\_28 (AY), MillySue\_26 (FF), Peas\_26 (FA), Pucara\_26 (FA), RadFad\_28 (AY), Richie\_28 (AY), Sashimi\_26 (AY), SpicyFrank\_28 (AY), ThayneTheZag\_28 (AY), Windest\_29 (AY), YoungHarleezy\_28 (AY),

#### Start 47:

- Found in 2 of 118 ( 1.7% ) of genes in pham
- Manual Annotations of this start: 2 of 96

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumotta\_24 (FB), MargaretKali\_24 (FB),

Start 55:

- Found in 2 of 118 ( 1.7% ) of genes in pham
- Manual Annotations of this start: 2 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoSwimming\_27 (FO), Scotia\_27 (FO),

Start 56:

- Found in 1 of 118 ( 0.8% ) of genes in pham
- Manual Annotations of this start: 1 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schmidt\_22 (CU4),

Start 57:

- Found in 8 of 118 ( 6.8% ) of genes in pham
- Manual Annotations of this start: 4 of 96
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BlackSpider\_25 (FN), Cassini\_25 (FN), CocoCinnamon\_27 (FO), Maja\_24 (FO), Pigu\_23 (FB), RootBeer\_23 (FA),

Start 58:

- Found in 5 of 118 ( 4.2% ) of genes in pham
- Manual Annotations of this start: 1 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CarefulCloud\_6 (ER), CyranoPS\_6 (ER), HorseRider\_6 (ER), Jalloh\_6 (ER), TailX7\_6 (ER),

Start 61:

- Found in 2 of 118 ( 1.7% ) of genes in pham
- Manual Annotations of this start: 1 of 96
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilJank\_36 (DU2), Trax\_36 (DU2),

Start 63:

- Found in 26 of 118 ( 22.0% ) of genes in pham
- Manual Annotations of this start: 24 of 96
- Called 96.2% of time when present
- Phage (with cluster) where this start called: ArizonaGT\_21 (BP), Austintatious\_22 (BC3), AxeJC\_21 (BP), Bioscum\_22 (BC3), Cumberbatch\_21 (BP), DaRealMyers\_23 (BC1), Darolandstone\_23 (BC2), Eastland\_21 (BP), Eklok\_21 (BP), FrumpyGal\_21 (BP), HFrancette\_21 (BP), Ididsumtinwong\_22 (BC3), Ignacio\_21 (BP), Lishka\_22 (BC3), Moajorita\_22 (BC1), PapayaSalad\_22 (BC3), Picard\_22 (BC1), Piccadilly\_21 (BP), Raleigh\_23 (BC2), SV1\_22 (BC1), Schlegelian\_21 (BP), SoJo\_23 (BC1), ToastyFinz\_22 (BC1), Tubberson\_23 (BC1), Vondra\_21 (BP),

### Summary by clusters:

There are 22 clusters represented in this pham: FS, AP2, AP4, FA, FB, BP, FF, DY, FJ, FN, FO, CU4, DU2, AO, EB, AO2, AO1, AY, ER, BC1, BC2, BC3,

Info for manual annotations of cluster AO:

- Start number 39 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 30 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 29 was manually annotated 4 times for cluster AO2.
- Start number 30 was manually annotated 11 times for cluster AO2.
- Start number 40 was manually annotated 1 time for cluster AO2.

Info for manual annotations of cluster AP2:

- Start number 31 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AP4:

- Start number 32 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster AY:

- Start number 46 was manually annotated 16 times for cluster AY.

Info for manual annotations of cluster BC1:

- Start number 63 was manually annotated 6 times for cluster BC1.

Info for manual annotations of cluster BC2:

- Start number 63 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:

- Start number 63 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BP:

- Start number 63 was manually annotated 11 times for cluster BP.

Info for manual annotations of cluster CU4:

- Start number 56 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster DU2:

- Start number 61 was manually annotated 1 time for cluster DU2.

Info for manual annotations of cluster DY:

- Start number 44 was manually annotated 7 times for cluster DY.

Info for manual annotations of cluster EB:

- Start number 35 was manually annotated 4 times for cluster EB.

Info for manual annotations of cluster ER:

- Start number 58 was manually annotated 1 time for cluster ER.

Info for manual annotations of cluster FA:

- Start number 46 was manually annotated 4 times for cluster FA.
- Start number 57 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FB:

- Start number 47 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FF:

- Start number 46 was manually annotated 3 times for cluster FF.

Info for manual annotations of cluster FN:

- Start number 57 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FO:

- Start number 55 was manually annotated 2 times for cluster FO.
- Start number 57 was manually annotated 2 times for cluster FO.

### **Gene Information:**

Gene: AWGoat\_38 Start: 34355, Stop: 34708, Start Num: 32

Candidate Starts for AWGoat\_38:

(Start: 32 @34355 has 2 MA's), (64, 34463), (75, 34508), (107, 34631), (112, 34667),

Gene: Aikyam\_28 Start: 20431, Stop: 20736, Start Num: 46

Candidate Starts for Aikyam\_28:

(Start: 46 @20431 has 23 MA's), (60, 20482), (79, 20548), (86, 20572), (91, 20590), (96, 20611), (99, 20617), (102, 20629),

Gene: ArizonaGT\_21 Start: 17942, Stop: 18202, Start Num: 63

Candidate Starts for ArizonaGT\_21:

(2, 17210), (11, 17399), (15, 17477), (16, 17525), (18, 17612), (49, 17897), (59, 17936), (Start: 63 @17942 has 24 MA's), (74, 17996), (76, 18005), (107, 18122),

Gene: Austintatious\_22 Start: 17098, Stop: 17331, Start Num: 63

Candidate Starts for Austintatious\_22:

(Start: 63 @17098 has 24 MA's), (69, 17131), (107, 17254),

Gene: Auxilium\_28 Start: 20421, Stop: 20726, Start Num: 46

Candidate Starts for Auxilium\_28:

(Start: 46 @20421 has 23 MA's), (60, 20472), (79, 20538), (86, 20562), (91, 20580), (96, 20601), (99, 20607), (102, 20619),

Gene: AxeJC\_21 Start: 17926, Stop: 18183, Start Num: 63

Candidate Starts for AxeJC\_21:

(2, 17209), (11, 17398), (15, 17476), (16, 17524), (49, 17881), (59, 17920), (Start: 63 @17926 has 24 MA's), (74, 17980), (76, 17989), (107, 18106),

Gene: Bachaco\_23 Start: 20374, Stop: 20691, Start Num: 35

Candidate Starts for Bachaco\_23:

(Start: 35 @20374 has 4 MA's), (65, 20461), (75, 20503), (78, 20515), (93, 20566), (107, 20626),

Gene: BarretLemon\_29 Start: 25316, Stop: 25687, Start Num: 29

Candidate Starts for BarretLemon\_29:

(Start: 29 @25316 has 4 MA's), (Start: 30 @25319 has 18 MA's), (36, 25340), (65, 25424), (75, 25466), (77, 25475), (80, 25487), (87, 25508), (91, 25523), (107, 25589), (115, 25628),

Gene: BasketStar\_28 Start: 20475, Stop: 20780, Start Num: 46  
Candidate Starts for BasketStar\_28:  
(Start: 46 @20475 has 23 MA's), (60, 20526), (79, 20592), (86, 20616), (91, 20634), (96, 20655), (99, 20661), (102, 20673), (116, 20745),

Gene: Beans\_27 Start: 24983, Stop: 25351, Start Num: 30  
Candidate Starts for Beans\_27:  
(Start: 30 @24983 has 18 MA's), (65, 25088), (75, 25130), (77, 25139), (80, 25151), (87, 25172), (91, 25187), (107, 25253), (115, 25292),

Gene: BenchScraper\_28 Start: 20436, Stop: 20741, Start Num: 46  
Candidate Starts for BenchScraper\_28:  
(Start: 46 @20436 has 23 MA's), (60, 20487), (79, 20553), (86, 20577), (91, 20595), (96, 20616), (99, 20622), (102, 20634),

Gene: BigDome\_29 Start: 25311, Stop: 25679, Start Num: 30  
Candidate Starts for BigDome\_29:  
(Start: 29 @25308 has 4 MA's), (Start: 30 @25311 has 18 MA's), (65, 25416), (75, 25458), (77, 25467), (80, 25479), (87, 25500), (91, 25515), (107, 25581), (115, 25620),

Gene: Bioscum\_22 Start: 17134, Stop: 17367, Start Num: 63  
Candidate Starts for Bioscum\_22:  
(Start: 63 @17134 has 24 MA's), (69, 17167), (107, 17290),

Gene: BlackSpider\_25 Start: 20146, Stop: 20424, Start Num: 57  
Candidate Starts for BlackSpider\_25:  
(33, 20062), (52, 20128), (Start: 57 @20146 has 4 MA's), (81, 20239), (84, 20251), (88, 20266), (100, 20308), (101, 20314), (107, 20344),

Gene: BlueShadow\_28 Start: 20421, Stop: 20726, Start Num: 46  
Candidate Starts for BlueShadow\_28:  
(Start: 46 @20421 has 23 MA's), (60, 20472), (79, 20538), (86, 20562), (91, 20580), (96, 20601), (99, 20607), (102, 20619), (116, 20691),

Gene: BossLady\_29 Start: 25299, Stop: 25667, Start Num: 30  
Candidate Starts for BossLady\_29:  
(Start: 30 @25299 has 18 MA's), (54, 25371), (62, 25392), (65, 25404), (66, 25410), (75, 25446), (80, 25467), (87, 25488), (91, 25503), (107, 25569), (115, 25608),

Gene: Brent\_27 Start: 24986, Stop: 25354, Start Num: 30  
Candidate Starts for Brent\_27:  
(Start: 30 @24986 has 18 MA's), (36, 25007), (65, 25091), (75, 25133), (77, 25142), (80, 25154), (107, 25256), (115, 25295),

Gene: CarefulCloud\_6 Start: 3802, Stop: 4080, Start Num: 58  
Candidate Starts for CarefulCloud\_6:  
(Start: 58 @3802 has 1 MA's), (90, 3922), (95, 3940), (118, 4039),

Gene: Cassini\_25 Start: 20383, Stop: 20661, Start Num: 57  
Candidate Starts for Cassini\_25:  
(1, 19501), (5, 19678), (6, 19720), (33, 20299), (52, 20365), (Start: 57 @20383 has 4 MA's), (81, 20476), (88, 20503), (100, 20545), (101, 20551), (107, 20581),

Gene: Celaena\_23 Start: 20322, Stop: 20639, Start Num: 35  
Candidate Starts for Celaena\_23:  
(Start: 35 @20322 has 4 MA's), (65, 20409), (75, 20451), (78, 20463), (93, 20514), (107, 20574),

Gene: CocoCinnamon\_27 Start: 20011, Stop: 20283, Start Num: 57  
Candidate Starts for CocoCinnamon\_27:  
(Start: 57 @20011 has 4 MA's), (100, 20170), (103, 20182), (107, 20206),

Gene: CookieBear\_28 Start: 20421, Stop: 20726, Start Num: 46  
Candidate Starts for CookieBear\_28:  
(Start: 46 @20421 has 23 MA's), (60, 20472), (79, 20538), (86, 20562), (91, 20580), (96, 20601), (99, 20607), (102, 20619),

Gene: Cumberbatch\_21 Start: 17942, Stop: 18202, Start Num: 63  
Candidate Starts for Cumberbatch\_21:  
(2, 17210), (11, 17399), (15, 17477), (16, 17525), (18, 17612), (49, 17897), (59, 17936), (Start: 63 @17942 has 24 MA's), (74, 17996), (76, 18005), (107, 18122),

Gene: CyranoPS\_6 Start: 3800, Stop: 4078, Start Num: 58  
Candidate Starts for CyranoPS\_6:  
(Start: 58 @3800 has 1 MA's), (90, 3920),

Gene: DaRealMyers\_23 Start: 19333, Stop: 19587, Start Num: 63  
Candidate Starts for DaRealMyers\_23:  
(Start: 63 @19333 has 24 MA's), (99, 19471), (105, 19498), (107, 19510),

Gene: Darolandstone\_23 Start: 19517, Stop: 19762, Start Num: 63  
Candidate Starts for Darolandstone\_23:  
(25, 19388), (Start: 63 @19517 has 24 MA's), (84, 19595), (89, 19610), (107, 19673),

Gene: DearBasketball\_25 Start: 18817, Stop: 19116, Start Num: 44  
Candidate Starts for DearBasketball\_25:  
(4, 18160), (7, 18220), (12, 18352), (13, 18361), (17, 18535), (42, 18814), (Start: 44 @18817 has 7 MA's), (70, 18919), (84, 18961), (96, 19006), (103, 19015), (107, 19039), (117, 19087),

Gene: Ding\_28 Start: 20382, Stop: 20687, Start Num: 46  
Candidate Starts for Ding\_28:  
(24, 20298), (38, 20364), (Start: 46 @20382 has 23 MA's), (60, 20433), (68, 20457), (79, 20499), (96, 20562), (99, 20568), (105, 20595),

Gene: DinoNuggs\_23 Start: 18783, Stop: 19082, Start Num: 44  
Candidate Starts for DinoNuggs\_23:  
(4, 18126), (7, 18186), (12, 18318), (13, 18327), (17, 18501), (42, 18780), (Start: 44 @18783 has 7 MA's), (70, 18885), (84, 18927), (96, 18972), (103, 18981), (107, 19005), (117, 19053),

Gene: DonkeyMan\_22 Start: 18572, Stop: 18871, Start Num: 44  
Candidate Starts for DonkeyMan\_22:  
(17, 18290), (42, 18569), (Start: 44 @18572 has 7 MA's), (70, 18674), (84, 18716), (96, 18761), (103, 18770), (107, 18794), (117, 18842), (119, 18863),

Gene: EastWest\_30 Start: 25176, Stop: 25514, Start Num: 39  
Candidate Starts for EastWest\_30:

(Start: 39 @25176 has 1 MA's), (65, 25257), (73, 25293), (75, 25299), (80, 25320), (85, 25332), (107, 25422), (115, 25461),

Gene: Eastland\_21 Start: 17911, Stop: 18168, Start Num: 63

Candidate Starts for Eastland\_21:

(2, 17194), (11, 17383), (15, 17461), (16, 17509), (49, 17866), (59, 17905), (Start: 63 @17911 has 24 MA's), (74, 17965), (76, 17974), (107, 18091),

Gene: Eileen\_26 Start: 20113, Stop: 20415, Start Num: 46

Candidate Starts for Eileen\_26:

(Start: 46 @20113 has 23 MA's), (60, 20164), (91, 20272), (96, 20293), (99, 20299), (102, 20311), (105, 20326),

Gene: Eklok\_21 Start: 17926, Stop: 18183, Start Num: 63

Candidate Starts for Eklok\_21:

(2, 17209), (11, 17398), (15, 17476), (16, 17524), (49, 17881), (59, 17920), (Start: 63 @17926 has 24 MA's), (74, 17980), (76, 17989), (107, 18106),

Gene: FlameThrower\_23 Start: 19859, Stop: 20176, Start Num: 35

Candidate Starts for FlameThrower\_23:

(21, 19682), (22, 19763), (Start: 35 @19859 has 4 MA's), (65, 19946), (75, 19988), (78, 20000), (93, 20051), (107, 20111), (113, 20147),

Gene: Franzy\_27 Start: 24985, Stop: 25353, Start Num: 30

Candidate Starts for Franzy\_27:

(Start: 30 @24985 has 18 MA's), (36, 25006), (65, 25090), (75, 25132), (77, 25141), (80, 25153), (107, 25255), (115, 25294),

Gene: FrumpyGal\_21 Start: 17911, Stop: 18168, Start Num: 63

Candidate Starts for FrumpyGal\_21:

(2, 17194), (11, 17383), (15, 17461), (16, 17509), (49, 17866), (59, 17905), (Start: 63 @17911 has 24 MA's), (74, 17965), (76, 17974), (107, 18091),

Gene: GUPitcher\_23 Start: 18548, Stop: 18850, Start Num: 46

Candidate Starts for GUPitcher\_23:

(Start: 46 @18548 has 23 MA's), (75, 18647), (91, 18704), (105, 18758), (107, 18770), (116, 18815),

Gene: Gibbzilla\_25 Start: 16637, Stop: 16939, Start Num: 46

Candidate Starts for Gibbzilla\_25:

(Start: 46 @16637 has 23 MA's), (60, 16685), (86, 16775), (91, 16793), (102, 16832), (106, 16856),

Gene: Globfish\_28 Start: 20655, Stop: 20960, Start Num: 46

Candidate Starts for Globfish\_28:

(41, 20646), (Start: 46 @20655 has 23 MA's), (60, 20706), (86, 20796), (96, 20835), (102, 20853), (107, 20880),

Gene: GravityBall\_29 Start: 25318, Stop: 25686, Start Num: 30

Candidate Starts for GravityBall\_29:

(Start: 29 @25315 has 4 MA's), (Start: 30 @25318 has 18 MA's), (65, 25423), (75, 25465), (77, 25474), (80, 25486), (87, 25507), (91, 25522), (107, 25588), (115, 25627),

Gene: Grekaycon\_29 Start: 25245, Stop: 25613, Start Num: 30

Candidate Starts for Grekaycon\_29:

(Start: 30 @25245 has 18 MA's), (54, 25317), (62, 25338), (65, 25350), (66, 25356), (75, 25392), (77, 25401), (80, 25413), (87, 25434), (88, 25437), (91, 25449), (107, 25515), (115, 25554),

Gene: Gusanita\_24 Start: 19423, Stop: 19737, Start Num: 46

Candidate Starts for Gusanita\_24:

(Start: 46 @19423 has 23 MA's), (65, 19495), (86, 19573), (105, 19645), (108, 19663),

Gene: HFrancette\_21 Start: 17957, Stop: 18214, Start Num: 63

Candidate Starts for HFrancette\_21:

(2, 17225), (11, 17414), (15, 17492), (16, 17540), (18, 17627), (49, 17912), (59, 17951), (Start: 63 @17957 has 24 MA's), (74, 18011), (76, 18020), (107, 18137),

Gene: Heinz\_22 Start: 18664, Stop: 18963, Start Num: 44

Candidate Starts for Heinz\_22:

(20, 18460), (42, 18661), (Start: 44 @18664 has 7 MA's), (67, 18754), (70, 18766), (84, 18808), (96, 18853), (103, 18862), (107, 18886), (117, 18934),

Gene: Henrique\_27 Start: 20198, Stop: 20500, Start Num: 46

Candidate Starts for Henrique\_27:

(3, 19532), (Start: 46 @20198 has 23 MA's), (60, 20249), (86, 20339), (87, 20342), (91, 20357), (95, 20369), (96, 20378), (99, 20384), (102, 20396), (103, 20399), (105, 20411),

Gene: Hibiscus\_22 Start: 18612, Stop: 18911, Start Num: 44

Candidate Starts for Hibiscus\_22:

(20, 18408), (42, 18609), (Start: 44 @18612 has 7 MA's), (67, 18702), (70, 18714), (84, 18756), (96, 18801), (103, 18810), (107, 18834), (117, 18882),

Gene: Hillester\_28 Start: 20421, Stop: 20726, Start Num: 46

Candidate Starts for Hillester\_28:

(Start: 46 @20421 has 23 MA's), (60, 20472), (79, 20538), (86, 20562), (91, 20580), (96, 20601), (99, 20607), (102, 20619),

Gene: HorseRider\_6 Start: 3802, Stop: 4080, Start Num: 58

Candidate Starts for HorseRider\_6:

(Start: 58 @3802 has 1 MA's), (90, 3922), (95, 3940),

Gene: HotPotato\_26 Start: 20119, Stop: 20421, Start Num: 46

Candidate Starts for HotPotato\_26:

(Start: 46 @20119 has 23 MA's), (91, 20278), (95, 20290), (96, 20299), (99, 20305), (102, 20317), (105, 20332),

Gene: Ididsumtinwong\_22 Start: 17134, Stop: 17367, Start Num: 63

Candidate Starts for Ididsumtinwong\_22:

(Start: 63 @17134 has 24 MA's), (69, 17167), (107, 17290),

Gene: Ignacio\_21 Start: 17957, Stop: 18214, Start Num: 63

Candidate Starts for Ignacio\_21:

(2, 17225), (11, 17414), (15, 17492), (16, 17540), (18, 17627), (49, 17912), (59, 17951), (Start: 63 @17957 has 24 MA's), (74, 18011), (76, 18020), (107, 18137),

Gene: IsHungry\_26 Start: 19976, Stop: 20278, Start Num: 46

Candidate Starts for IsHungry\_26:

(Start: 46 @19976 has 23 MA's), (60, 20027), (91, 20135), (96, 20156), (99, 20162),

Gene: JKerns\_29 Start: 25272, Stop: 25640, Start Num: 30

Candidate Starts for JKerns\_29:

(Start: 30 @25272 has 18 MA's), (65, 25377), (66, 25383), (75, 25419), (77, 25428), (80, 25440), (87, 25461), (91, 25476), (103, 25518), (107, 25542), (115, 25581),

Gene: Jalloh\_6 Start: 3801, Stop: 4079, Start Num: 58

Candidate Starts for Jalloh\_6:

(Start: 58 @3801 has 1 MA's), (90, 3921), (95, 3939),

Gene: Jawnski\_27 Start: 24995, Stop: 25363, Start Num: 30

Candidate Starts for Jawnski\_27:

(Start: 30 @24995 has 18 MA's), (65, 25100), (75, 25142), (77, 25151), (80, 25163), (91, 25199), (94, 25208), (104, 25250), (107, 25265), (115, 25304),

Gene: Jojo24\_22 Start: 18609, Stop: 18908, Start Num: 44

Candidate Starts for Jojo24\_22:

(20, 18405), (42, 18606), (Start: 44 @18609 has 7 MA's), (67, 18699), (70, 18711), (84, 18753), (96, 18798), (103, 18807), (107, 18831), (117, 18879),

Gene: Jordan\_29 Start: 25242, Stop: 25610, Start Num: 30

Candidate Starts for Jordan\_29:

(Start: 30 @25242 has 18 MA's), (65, 25347), (66, 25353), (75, 25389), (77, 25398), (80, 25410), (87, 25431), (91, 25446), (103, 25488), (107, 25512), (108, 25518), (115, 25551),

Gene: Karkharias\_26 Start: 20115, Stop: 20417, Start Num: 46

Candidate Starts for Karkharias\_26:

(Start: 46 @20115 has 23 MA's), (60, 20166), (91, 20274), (96, 20295), (99, 20301), (102, 20313),

Gene: Katzastrophic\_23 Start: 19980, Stop: 20297, Start Num: 35

Candidate Starts for Katzastrophic\_23:

(Start: 35 @19980 has 4 MA's), (65, 20067), (75, 20109), (78, 20121), (93, 20172), (107, 20232), (113, 20268),

Gene: Khuang\_21 Start: 17688, Stop: 17984, Start Num: 46

Candidate Starts for Khuang\_21:

(41, 17679), (Start: 46 @17688 has 23 MA's), (60, 17739), (68, 17763), (96, 17868), (99, 17874), (102, 17886), (105, 17901), (107, 17913),

Gene: King2\_27 Start: 24982, Stop: 25350, Start Num: 30

Candidate Starts for King2\_27:

(Start: 30 @24982 has 18 MA's), (65, 25087), (75, 25129), (77, 25138), (80, 25150), (91, 25186), (94, 25195), (107, 25252), (115, 25291),

Gene: Kumotta\_24 Start: 18861, Stop: 19166, Start Num: 47

Candidate Starts for Kumotta\_24:

(Start: 47 @18861 has 2 MA's), (82, 18996), (106, 19092),

Gene: Lasker\_28 Start: 20429, Stop: 20734, Start Num: 46

Candidate Starts for Lasker\_28:

(Start: 46 @20429 has 23 MA's), (60, 20480), (79, 20546), (86, 20570), (91, 20588), (96, 20609), (99, 20615), (102, 20627),

Gene: LeeroyJ\_29 Start: 25315, Stop: 25686, Start Num: 29

Candidate Starts for LeeroyJ\_29:

(Start: 29 @25315 has 4 MA's), (Start: 30 @25318 has 18 MA's), (36, 25339), (65, 25423), (75, 25465), (77, 25474), (80, 25486), (87, 25507), (91, 25522), (107, 25588), (115, 25627),

Gene: LilJank\_36 Start: 31388, Stop: 31618, Start Num: 61

Candidate Starts for LilJank\_36:

(Start: 61 @31388 has 1 MA's), (72, 31436), (106, 31541), (107, 31544), (109, 31559), (111, 31571),

Gene: LilyBell\_26 Start: 20124, Stop: 20429, Start Num: 46

Candidate Starts for LilyBell\_26:

(27, 20067), (42, 20115), (Start: 46 @20124 has 23 MA's), (60, 20178), (91, 20286), (96, 20307), (99, 20313), (102, 20325),

Gene: Lishka\_22 Start: 17098, Stop: 17331, Start Num: 63

Candidate Starts for Lishka\_22:

(Start: 63 @17098 has 24 MA's), (69, 17131), (107, 17254),

Gene: Maja\_24 Start: 18850, Stop: 19128, Start Num: 57

Candidate Starts for Maja\_24:

(51, 18832), (Start: 57 @18850 has 4 MA's), (103, 19027), (106, 19048), (107, 19051),

Gene: MargaretKali\_24 Start: 18496, Stop: 18801, Start Num: 47

Candidate Starts for MargaretKali\_24:

(Start: 47 @18496 has 2 MA's), (82, 18631), (106, 18727),

Gene: Martha\_29 Start: 25246, Stop: 25614, Start Num: 30

Candidate Starts for Martha\_29:

(Start: 30 @25246 has 18 MA's), (54, 25318), (62, 25339), (65, 25351), (66, 25357), (75, 25393), (77, 25402), (80, 25414), (87, 25435), (88, 25438), (91, 25450), (107, 25516), (115, 25555),

Gene: MaterMagnus\_28 Start: 20431, Stop: 20736, Start Num: 46

Candidate Starts for MaterMagnus\_28:

(Start: 46 @20431 has 23 MA's), (60, 20482), (79, 20548), (86, 20572), (91, 20590), (96, 20611), (99, 20617), (102, 20629),

Gene: MidnightRain\_28 Start: 20420, Stop: 20725, Start Num: 46

Candidate Starts for MidnightRain\_28:

(Start: 46 @20420 has 23 MA's), (60, 20471), (79, 20537), (86, 20561), (91, 20579), (96, 20600), (99, 20606), (102, 20618),

Gene: MillySue\_26 Start: 19546, Stop: 19851, Start Num: 46

Candidate Starts for MillySue\_26:

(3, 18883), (Start: 46 @19546 has 23 MA's), (60, 19597), (91, 19705), (102, 19744), (105, 19759),

Gene: Mojarita\_22 Start: 17147, Stop: 17407, Start Num: 63

Candidate Starts for Mojarita\_22:

(28, 17030), (Start: 63 @17147 has 24 MA's), (77, 17213), (107, 17327),

Gene: NathanVaag\_27 Start: 24958, Stop: 25326, Start Num: 30

Candidate Starts for NathanVaag\_27:

(Start: 30 @24958 has 18 MA's), (65, 25063), (75, 25105), (77, 25114), (78, 25117), (80, 25126), (91, 25162), (107, 25228), (115, 25267),

Gene: Nikan\_46 Start: 34694, Stop: 35047, Start Num: 31

Candidate Starts for Nikan\_46:

(25, 34661), (Start: 31 @34694 has 1 MA's), (45, 34742), (48, 34751), (53, 34778), (74, 34853), (88, 34901), (99, 34940), (107, 34979), (110, 34997),

Gene: NoSwimming\_27 Start: 24543, Stop: 24818, Start Num: 55

Candidate Starts for NoSwimming\_27:

(Start: 55 @24543 has 2 MA's), (Start: 57 @24549 has 4 MA's), (94, 24687), (107, 24738),

Gene: Ollypop\_46 Start: 35786, Stop: 36139, Start Num: 31

Candidate Starts for Ollypop\_46:

(Start: 31 @35786 has 1 MA's), (37, 35813), (43, 35828), (45, 35834), (48, 35843), (66, 35912), (74, 35945), (93, 36011), (99, 36032), (107, 36071), (110, 36089),

Gene: PapayaSalad\_22 Start: 17109, Stop: 17342, Start Num: 63

Candidate Starts for PapayaSalad\_22:

(Start: 63 @17109 has 24 MA's), (69, 17142), (107, 17265),

Gene: Peas\_26 Start: 20113, Stop: 20415, Start Num: 46

Candidate Starts for Peas\_26:

(Start: 46 @20113 has 23 MA's), (60, 20164), (91, 20272), (96, 20293), (99, 20299), (102, 20311), (105, 20326),

Gene: Picard\_22 Start: 17138, Stop: 17398, Start Num: 63

Candidate Starts for Picard\_22:

(28, 17024), (Start: 63 @17138 has 24 MA's), (77, 17204), (107, 17318),

Gene: Piccadilly\_21 Start: 17910, Stop: 18167, Start Num: 63

Candidate Starts for Piccadilly\_21:

(2, 17193), (11, 17382), (15, 17460), (16, 17508), (49, 17865), (59, 17904), (Start: 63 @17910 has 24 MA's), (74, 17964), (76, 17973), (107, 18090),

Gene: Piccoletto\_27 Start: 24960, Stop: 25328, Start Num: 30

Candidate Starts for Piccoletto\_27:

(Start: 30 @24960 has 18 MA's), (65, 25065), (75, 25107), (77, 25116), (80, 25128), (87, 25149), (91, 25164), (107, 25230), (115, 25269),

Gene: Pigu\_23 Start: 17919, Stop: 18197, Start Num: 57

Candidate Starts for Pigu\_23:

(Start: 57 @17919 has 4 MA's), (103, 18096), (106, 18117), (107, 18120),

Gene: Pippa\_29 Start: 25371, Stop: 25739, Start Num: 30

Candidate Starts for Pippa\_29:

(Start: 30 @25371 has 18 MA's), (65, 25476), (66, 25482), (75, 25518), (77, 25527), (80, 25539), (91, 25575), (94, 25584), (104, 25626), (107, 25641), (115, 25680),

Gene: Pucara\_26 Start: 20288, Stop: 20599, Start Num: 46

Candidate Starts for Pucara\_26:

(8, 19760), (10, 19802), (11, 19805), (Start: 46 @20288 has 23 MA's), (68, 20372), (70, 20378), (86, 20438), (91, 20456), (105, 20510), (108, 20528), (114, 20564),

Gene: RadFad\_28 Start: 20421, Stop: 20726, Start Num: 46

Candidate Starts for RadFad\_28:

(Start: 46 @20421 has 23 MA's), (60, 20472), (79, 20538), (86, 20562), (91, 20580), (96, 20601), (99, 20607), (102, 20619),

Gene: Raleigh\_23 Start: 19748, Stop: 19987, Start Num: 63

Candidate Starts for Raleigh\_23:

(Start: 63 @19748 has 24 MA's), (84, 19826), (89, 19841), (107, 19904),

Gene: Ren19\_44 Start: 34694, Stop: 35047, Start Num: 31

Candidate Starts for Ren19\_44:

(25, 34661), (Start: 31 @34694 has 1 MA's), (45, 34742), (48, 34751), (53, 34778), (74, 34853), (88, 34901), (99, 34940), (107, 34979), (110, 34997),

Gene: Reyja\_23 Start: 18783, Stop: 19082, Start Num: 44

Candidate Starts for Reyja\_23:

(4, 18126), (7, 18186), (12, 18318), (13, 18327), (17, 18501), (42, 18780), (Start: 44 @18783 has 7 MA's), (70, 18885), (84, 18927), (96, 18972), (103, 18981), (107, 19005), (117, 19053),

Gene: Richie\_28 Start: 20436, Stop: 20741, Start Num: 46

Candidate Starts for Richie\_28:

(Start: 46 @20436 has 23 MA's), (60, 20487), (79, 20553), (86, 20577), (91, 20595), (96, 20616), (99, 20622), (102, 20634),

Gene: RootBeer\_23 Start: 17990, Stop: 18268, Start Num: 57

Candidate Starts for RootBeer\_23:

(19, 17732), (52, 17975), (Start: 57 @17990 has 4 MA's), (107, 18188), (115, 18227),

Gene: SV1\_22 Start: 17352, Stop: 17588, Start Num: 63

Candidate Starts for SV1\_22:

(Start: 63 @17352 has 24 MA's), (107, 17508),

Gene: Santhid\_22 Start: 18617, Stop: 18916, Start Num: 44

Candidate Starts for Santhid\_22:

(42, 18614), (Start: 44 @18617 has 7 MA's), (70, 18719), (84, 18761), (96, 18806), (103, 18815), (107, 18839), (117, 18887),

Gene: Sashimi\_26 Start: 18795, Stop: 19100, Start Num: 46

Candidate Starts for Sashimi\_26:

(34, 18762), (Start: 46 @18795 has 23 MA's), (60, 18846), (72, 18888), (90, 18948), (91, 18954), (97, 18978), (99, 18981), (102, 18993), (105, 19008), (106, 19017),

Gene: Schlegelian\_21 Start: 17946, Stop: 18206, Start Num: 63

Candidate Starts for Schlegelian\_21:

(2, 17208), (9, 17391), (11, 17397), (14, 17427), (15, 17475), (16, 17523), (18, 17610), (49, 17901), (59, 17940), (Start: 63 @17946 has 24 MA's), (74, 18000), (76, 18009), (107, 18126),

Gene: Schmidt\_22 Start: 17098, Stop: 17373, Start Num: 56

Candidate Starts for Schmidt\_22:

(50, 17077), (Start: 56 @17098 has 1 MA's), (Start: 63 @17113 has 24 MA's), (69, 17146), (77, 17179), (83, 17188), (92, 17218), (98, 17239), (105, 17254), (106, 17263),

Gene: Scotia\_27 Start: 24546, Stop: 24821, Start Num: 55

Candidate Starts for Scotia\_27:

(Start: 55 @24546 has 2 MA's), (Start: 57 @24552 has 4 MA's), (107, 24741),

Gene: Shade\_29 Start: 25212, Stop: 25580, Start Num: 30

Candidate Starts for Shade\_29:

(Start: 30 @25212 has 18 MA's), (65, 25317), (66, 25323), (75, 25359), (77, 25368), (80, 25380), (91, 25416), (103, 25458), (107, 25482), (108, 25488), (115, 25521),

Gene: SilentRX\_40 Start: 35414, Stop: 35743, Start Num: 32

Candidate Starts for SilentRX\_40:

(23, 35366), (Start: 32 @35414 has 2 MA's), (60, 35498), (71, 35525), (77, 35552), (107, 35666), (109, 35681),

Gene: SoJo\_23 Start: 19328, Stop: 19582, Start Num: 63

Candidate Starts for SoJo\_23:

(Start: 63 @19328 has 24 MA's), (99, 19466), (105, 19493), (107, 19505),

Gene: Sonny\_29 Start: 25242, Stop: 25610, Start Num: 30

Candidate Starts for Sonny\_29:

(Start: 30 @25242 has 18 MA's), (65, 25347), (66, 25353), (75, 25389), (77, 25398), (80, 25410), (87, 25431), (91, 25446), (103, 25488), (107, 25512), (108, 25518), (115, 25551),

Gene: SpicyFrank\_28 Start: 20656, Stop: 20961, Start Num: 46

Candidate Starts for SpicyFrank\_28:

(Start: 46 @20656 has 23 MA's), (60, 20707), (86, 20797), (96, 20836), (102, 20854), (107, 20881),

Gene: StevieBAY\_29 Start: 25315, Stop: 25686, Start Num: 29

Candidate Starts for StevieBAY\_29:

(Start: 29 @25315 has 4 MA's), (Start: 30 @25318 has 18 MA's), (65, 25423), (75, 25465), (77, 25474), (80, 25486), (87, 25507), (91, 25522), (107, 25588), (115, 25627),

Gene: TaeYoung\_29 Start: 25246, Stop: 25614, Start Num: 30

Candidate Starts for TaeYoung\_29:

(Start: 30 @25246 has 18 MA's), (54, 25318), (62, 25339), (65, 25351), (66, 25357), (75, 25393), (77, 25402), (80, 25414), (87, 25435), (88, 25438), (91, 25450), (107, 25516), (115, 25555),

Gene: TailX7\_6 Start: 3802, Stop: 4080, Start Num: 58

Candidate Starts for TailX7\_6:

(Start: 58 @3802 has 1 MA's), (90, 3922), (95, 3940),

Gene: Tarzan\_22 Start: 18586, Stop: 18885, Start Num: 44

Candidate Starts for Tarzan\_22:

(4, 17929), (7, 17989), (12, 18121), (13, 18130), (17, 18304), (42, 18583), (Start: 44 @18586 has 7 MA's), (70, 18688), (84, 18730), (96, 18775), (103, 18784), (107, 18808), (117, 18856), (119, 18877),

Gene: ThayneTheZag\_28 Start: 20519, Stop: 20830, Start Num: 46

Candidate Starts for ThayneTheZag\_28:

(Start: 46 @20519 has 23 MA's), (60, 20576), (86, 20669), (91, 20687), (106, 20750), (109, 20768),

Gene: Timinator\_29 Start: 25315, Stop: 25686, Start Num: 29

Candidate Starts for Timinator\_29:

(Start: 29 @25315 has 4 MA's), (Start: 30 @25318 has 18 MA's), (36, 25339), (65, 25423), (75, 25465), (77, 25474), (80, 25486), (87, 25507), (91, 25522), (107, 25588), (115, 25627),

Gene: ToastyFinz\_22 Start: 19068, Stop: 19331, Start Num: 63  
Candidate Starts for ToastyFinz\_22:  
(Start: 63 @19068 has 24 MA's), (77, 19134), (107, 19248),

Gene: Trax\_36 Start: 31334, Stop: 31564, Start Num: 61  
Candidate Starts for Trax\_36:  
(Start: 61 @31334 has 1 MA's), (72, 31382), (106, 31487), (107, 31490), (109, 31505), (111, 31517),

Gene: Tubberson\_23 Start: 19333, Stop: 19587, Start Num: 63  
Candidate Starts for Tubberson\_23:  
(Start: 63 @19333 has 24 MA's), (99, 19471), (105, 19498), (107, 19510),

Gene: Vondra\_21 Start: 17962, Stop: 18219, Start Num: 63  
Candidate Starts for Vondra\_21:  
(2, 17224), (11, 17413), (15, 17491), (16, 17539), (18, 17626), (49, 17917), (59, 17956), (Start: 63 @17962 has 24 MA's), (74, 18016), (76, 18025), (107, 18142),

Gene: Windest\_29 Start: 20486, Stop: 20791, Start Num: 46  
Candidate Starts for Windest\_29:  
(Start: 46 @20486 has 23 MA's), (60, 20537), (79, 20603), (86, 20627), (91, 20645), (96, 20666), (99, 20672), (102, 20684), (116, 20756),

Gene: Wyborn\_30 Start: 25584, Stop: 25931, Start Num: 40  
Candidate Starts for Wyborn\_30:  
(26, 25542), (Start: 40 @25584 has 1 MA's), (60, 25656), (64, 25668), (65, 25671), (73, 25707), (75, 25713), (78, 25725), (88, 25758), (93, 25776), (107, 25836), (108, 25842),

Gene: YoungHarleezy\_28 Start: 20434, Stop: 20739, Start Num: 46  
Candidate Starts for YoungHarleezy\_28:  
(Start: 46 @20434 has 23 MA's), (60, 20485), (79, 20551), (86, 20575), (91, 20593), (96, 20614), (99, 20620), (102, 20632),

Gene: Zartrosa\_29 Start: 25236, Stop: 25604, Start Num: 30  
Candidate Starts for Zartrosa\_29:  
(Start: 30 @25236 has 18 MA's), (65, 25341), (66, 25347), (75, 25383), (77, 25392), (80, 25404), (87, 25425), (91, 25440), (103, 25482), (107, 25506), (108, 25512), (115, 25545),