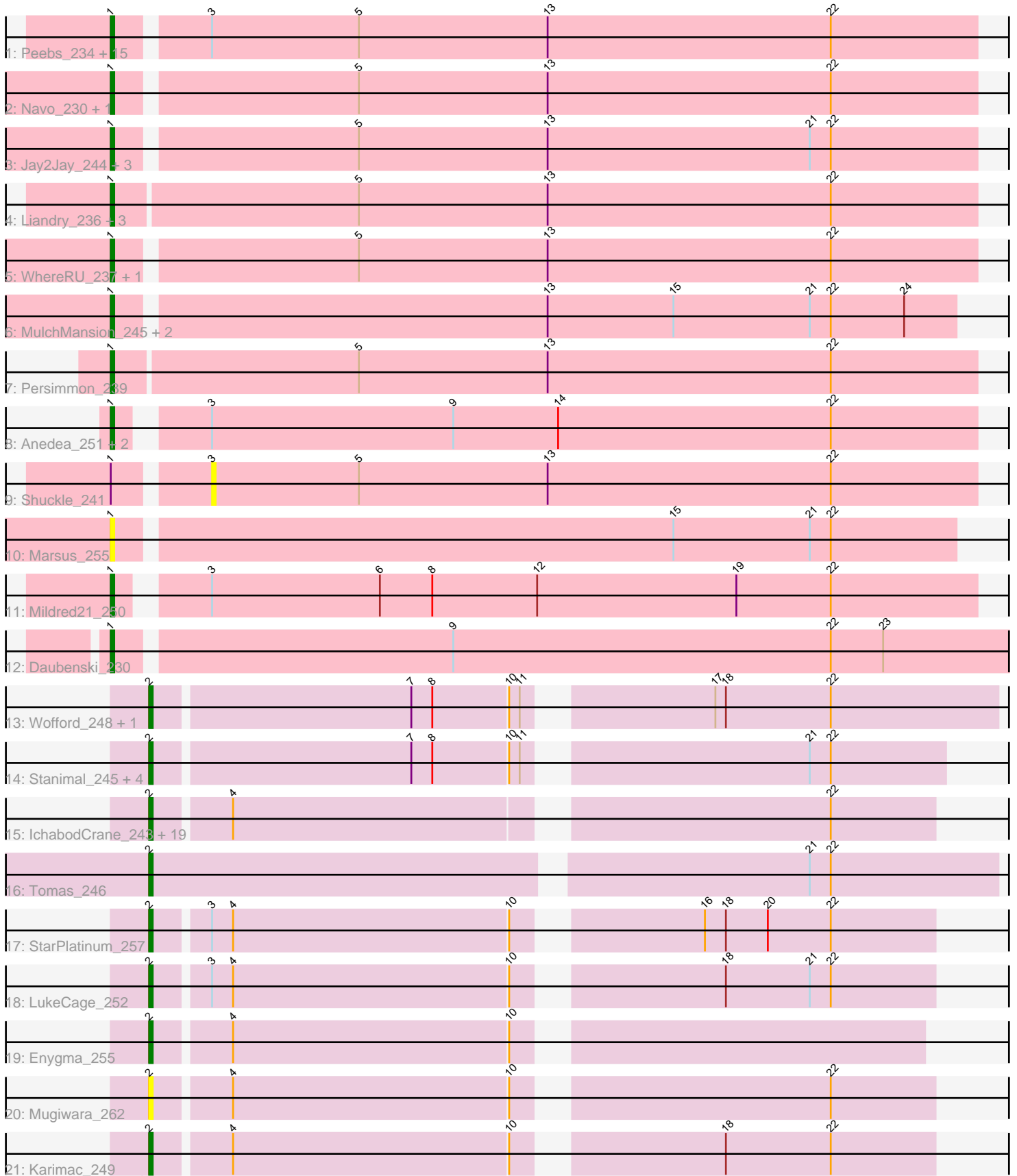


# Pham 212560



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 212560 Report

This analysis was run 02/22/25 on database version 588.

Pham number 212560 has 72 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Peebs\_234, HangryHippo\_236, Leo04\_239, BlueOtter\_236, Pepperwood\_238, Deutsch\_237, EGole\_244, PacManQ\_235, Cursive\_241, Lululemon\_235, Samisti12\_240, Sushi23\_239, Scheme\_241, Watermoore\_236, Tribute\_234, Larnav\_238
- Track 2 : Navo\_230, Braelyn\_232
- Track 3 : Jay2Jay\_244, Evy\_227, Targaryen\_237, Warpy\_241
- Track 4 : Liandry\_236, PinkiePie\_237, Squillium\_239, Paradiddles\_228
- Track 5 : WhereRU\_237, Bartholomune\_237
- Track 6 : MulchMansion\_245, LilMartin\_241, Angela\_245
- Track 7 : Persimmon\_239
- Track 8 : Anedea\_251, Riptide\_245, Bmoc\_244
- Track 9 : Shuckle\_241
- Track 10 : Marsus\_255
- Track 11 : Mildred21\_250
- Track 12 : Daubenski\_230
- Track 13 : Wofford\_248, Elmer\_257
- Track 14 : Stanimal\_245, BoomerJR\_245, Genie2\_245, Sollertia\_246, Yaboi\_250
- Track 15 : IchabodCrane\_243, Spelly\_254, Gibbi\_257, Quaran19\_249, CeilingFan\_253, JimJam\_256, Jollison\_246, Wipeout\_239, Spilled\_256, TomSawyer\_253, Starbow\_246, Rikishi\_257, Battuta\_247, Birchlyn\_248, SaltySpittoon\_249, Amabiko\_253, KentuckyRacer\_255, Bordeaux\_247, PumpkinSpice\_252, MindFlayer\_242
- Track 16 : Tomas\_246
- Track 17 : StarPlatinum\_257
- Track 18 : LukeCage\_252
- Track 19 : Enygma\_255
- Track 20 : Mugiwara\_262
- Track 21 : Karimac\_249

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

The start number called the most often in the published annotations is 1, it was called in 35 of the 65 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anedea\_251, Angela\_245, Bartholomune\_237, BlueOtter\_236, Bmoc\_244, Braelyn\_232, Cursive\_241, Daubenski\_230, EGole\_244, Evy\_227, HangryHippo\_236, Jay2Jay\_244, Larnav\_238, Leo04\_239, Liandry\_236, LilMartin\_241, Lululemon\_235, Marsus\_255, Mildred21\_250, MulchMansion\_245, Navo\_230, PacManQ\_235, Paradiddles\_228, Peebs\_234, Pepperwood\_238, Persimmon\_239, PinkiePie\_237, Riptide\_245, Samisti12\_240, Scheme\_241, Squillium\_239, Sushi23\_239, Targaryen\_237, Teutsch\_237, Tribute\_234, Warpy\_241, Watermoore\_236, WhereRU\_237,

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

- Shuckle\_241,

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

- Amabiko\_253, Battuta\_247, Birchlyn\_248, BoomerJR\_245, Bordeaux\_247, CeilingFan\_253, Elmer\_257, Enygma\_255, Genie2\_245, Gibbi\_257, IchabodCrane\_243, JimJam\_256, Jollison\_246, Karimac\_249, KentuckyRacer\_255, LukeCage\_252, MindFlayer\_242, Mugiwara\_262, PumpkinSpice\_252, Quaran19\_249, Rikishi\_257, SaltySpitooon\_249, Sollertia\_246, Spelly\_254, Spilled\_256, Stanimal\_245, StarPlatinum\_257, Starbow\_246, TomSawyer\_253, Tomas\_246, Wipeout\_239, Wofford\_248, Yaboi\_250,

### Summary by start number:

Start 1:

- Found in 39 of 72 ( 54.2% ) of genes in pham
- Manual Annotations of this start: 35 of 65
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Anedea\_251 (BE1), Angela\_245 (BE1), Bartholomune\_237 (BE1), BlueOtter\_236 (BE1), Bmoc\_244 (BE1), Braelyn\_232 (BE1), Cursive\_241 (BE1), Daubenski\_230 (BE1), EGole\_244 (BE1), Evy\_227 (BE1), HangryHippo\_236 (BE1), Jay2Jay\_244 (BE1), Larnav\_238 (BE1), Leo04\_239 (BE1), Liandry\_236 (BE1), LilMartin\_241 (BE1), Lululemon\_235 (BE1), Marsus\_255 (BE1), Mildred21\_250 (BE1), MulchMansion\_245 (BE1), Navo\_230 (BE1), PacManQ\_235 (BE1), Paradiddles\_228 (BE1), Peebs\_234 (BE1), Pepperwood\_238 (BE1), Persimmon\_239 (BE1), PinkiePie\_237 (BE1), Riptide\_245 (BE1), Samisti12\_240 (BE1), Scheme\_241 (BE1), Squillium\_239 (BE1), Sushi23\_239 (BE1), Targaryen\_237 (BE1), Teutsch\_237 (BE1), Tribute\_234 (BE1), Warpy\_241 (BE1), Watermoore\_236 (BE1), WhereRU\_237 (BE1),

Start 2:

- Found in 33 of 72 ( 45.8% ) of genes in pham
- Manual Annotations of this start: 30 of 65
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amabiko\_253 (BE2), Battuta\_247 (BE2), Birchlyn\_248 (BE2), BoomerJR\_245 (BE2), Bordeaux\_247 (BE2), CeilingFan\_253 (BE2), Elmer\_257 (BE2), Enygma\_255 (BE2), Genie2\_245 (BE2), Gibbi\_257 (BE2), IchabodCrane\_243 (BE2), JimJam\_256 (BE2), Jollison\_246 (BE2), Karimac\_249 (BE2), KentuckyRacer\_255 (BE2), LukeCage\_252 (BE2), MindFlayer\_242 (BE2), Mugiwara\_262 (BE2), PumpkinSpice\_252 (BE2), Quaran19\_249 (BE2), Rikishi\_257 (BE2), SaltySpitooon\_249 (BE2), Sollertia\_246 (BE2), Spelly\_254 (BE2), Spilled\_256 (BE2), Stanimal\_245 (BE2), StarPlatinum\_257 (BE2), Starbow\_246 (BE2), TomSawyer\_253 (BE2), Tomas\_246 (BE2), Wipeout\_239 (BE2), Wofford\_248 (BE2),

Yaboi\_250 (BE2),

Start 3:

- Found in 23 of 72 ( 31.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Shuckle\_241 (BE1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 1 was manually annotated 35 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 2 was manually annotated 30 times for cluster BE2.

### **Gene Information:**

Gene: Amabiko\_253 Start: 114808, Stop: 115017, Start Num: 2

Candidate Starts for Amabiko\_253:

(Start: 2 @114808 has 30 MA's), (4, 114829), (22, 114988),

Gene: Anedea\_251 Start: 118563, Stop: 118802, Start Num: 1

Candidate Starts for Anedea\_251:

(Start: 1 @118563 has 35 MA's), (3, 118584), (9, 118653), (14, 118683), (22, 118761),

Gene: Angela\_245 Start: 117915, Stop: 118151, Start Num: 1

Candidate Starts for Angela\_245:

(Start: 1 @117915 has 35 MA's), (13, 118035), (15, 118071), (21, 118110), (22, 118116), (24, 118137),

Gene: Bartholomune\_237 Start: 116567, Stop: 116809, Start Num: 1

Candidate Starts for Bartholomune\_237:

(Start: 1 @116567 has 35 MA's), (5, 116633), (13, 116687), (22, 116768),

Gene: Battuta\_247 Start: 114123, Stop: 114332, Start Num: 2

Candidate Starts for Battuta\_247:

(Start: 2 @114123 has 30 MA's), (4, 114144), (22, 114303),

Gene: Birchlyn\_248 Start: 112056, Stop: 112265, Start Num: 2

Candidate Starts for Birchlyn\_248:

(Start: 2 @112056 has 30 MA's), (4, 112077), (22, 112236),

Gene: BlueOtter\_236 Start: 116741, Stop: 116983, Start Num: 1

Candidate Starts for BlueOtter\_236:

(Start: 1 @116741 has 35 MA's), (3, 116765), (5, 116807), (13, 116861), (22, 116942),

Gene: Bmoc\_244 Start: 117335, Stop: 117577, Start Num: 1

Candidate Starts for Bmoc\_244:

(Start: 1 @117335 has 35 MA's), (3, 117359), (9, 117428), (14, 117458), (22, 117536),

Gene: BoomerJR\_245 Start: 114545, Stop: 114757, Start Num: 2  
Candidate Starts for BoomerJR\_245:  
(Start: 2 @114545 has 30 MA's), (7, 114617), (8, 114623), (10, 114644), (11, 114647), (21, 114719),  
(22, 114725),

Gene: Bordeaux\_247 Start: 114706, Stop: 114915, Start Num: 2  
Candidate Starts for Bordeaux\_247:  
(Start: 2 @114706 has 30 MA's), (4, 114727), (22, 114886),

Gene: Braelyn\_232 Start: 115901, Stop: 116143, Start Num: 1  
Candidate Starts for Braelyn\_232:  
(Start: 1 @115901 has 35 MA's), (5, 115967), (13, 116021), (22, 116102),

Gene: CeilingFan\_253 Start: 115501, Stop: 115710, Start Num: 2  
Candidate Starts for CeilingFan\_253:  
(Start: 2 @115501 has 30 MA's), (4, 115522), (22, 115681),

Gene: Cursive\_241 Start: 117493, Stop: 117735, Start Num: 1  
Candidate Starts for Cursive\_241:  
(Start: 1 @117493 has 35 MA's), (3, 117517), (5, 117559), (13, 117613), (22, 117694),

Gene: Daubenski\_230 Start: 117745, Stop: 117999, Start Num: 1  
Candidate Starts for Daubenski\_230:  
(Start: 1 @117745 has 35 MA's), (9, 117838), (22, 117946), (23, 117961),

Gene: EGole\_244 Start: 119967, Stop: 120209, Start Num: 1  
Candidate Starts for EGole\_244:  
(Start: 1 @119967 has 35 MA's), (3, 119991), (5, 120033), (13, 120087), (22, 120168),

Gene: Elmer\_257 Start: 118266, Stop: 118493, Start Num: 2  
Candidate Starts for Elmer\_257:  
(Start: 2 @118266 has 30 MA's), (7, 118338), (8, 118344), (10, 118365), (11, 118368), (17, 118413),  
(18, 118416), (22, 118446),

Gene: Enygma\_255 Start: 117307, Stop: 117513, Start Num: 2  
Candidate Starts for Enygma\_255:  
(Start: 2 @117307 has 30 MA's), (4, 117328), (10, 117406),

Gene: Evy\_227 Start: 117420, Stop: 117662, Start Num: 1  
Candidate Starts for Evy\_227:  
(Start: 1 @117420 has 35 MA's), (5, 117486), (13, 117540), (21, 117615), (22, 117621),

Gene: Genie2\_245 Start: 114670, Stop: 114882, Start Num: 2  
Candidate Starts for Genie2\_245:  
(Start: 2 @114670 has 30 MA's), (7, 114742), (8, 114748), (10, 114769), (11, 114772), (21, 114844),  
(22, 114850),

Gene: Gibbi\_257 Start: 114994, Stop: 115203, Start Num: 2  
Candidate Starts for Gibbi\_257:  
(Start: 2 @114994 has 30 MA's), (4, 115015), (22, 115174),

Gene: HangryHippo\_236 Start: 116741, Stop: 116983, Start Num: 1

Candidate Starts for HangryHippo\_236:

(Start: 1 @116741 has 35 MA's), (3, 116765), (5, 116807), (13, 116861), (22, 116942),

Gene: IchabodCrane\_243 Start: 114509, Stop: 114718, Start Num: 2

Candidate Starts for IchabodCrane\_243:

(Start: 2 @114509 has 30 MA's), (4, 114530), (22, 114689),

Gene: Jay2Jay\_244 Start: 117784, Stop: 118026, Start Num: 1

Candidate Starts for Jay2Jay\_244:

(Start: 1 @117784 has 35 MA's), (5, 117850), (13, 117904), (21, 117979), (22, 117985),

Gene: JimJam\_256 Start: 116430, Stop: 116639, Start Num: 2

Candidate Starts for JimJam\_256:

(Start: 2 @116430 has 30 MA's), (4, 116451), (22, 116610),

Gene: Jollison\_246 Start: 114640, Stop: 114849, Start Num: 2

Candidate Starts for Jollison\_246:

(Start: 2 @114640 has 30 MA's), (4, 114661), (22, 114820),

Gene: Karimac\_249 Start: 114825, Stop: 115034, Start Num: 2

Candidate Starts for Karimac\_249:

(Start: 2 @114825 has 30 MA's), (4, 114846), (10, 114924), (18, 114975), (22, 115005),

Gene: KentuckyRacer\_255 Start: 116345, Stop: 116554, Start Num: 2

Candidate Starts for KentuckyRacer\_255:

(Start: 2 @116345 has 30 MA's), (4, 116366), (22, 116525),

Gene: Larnav\_238 Start: 117659, Stop: 117901, Start Num: 1

Candidate Starts for Larnav\_238:

(Start: 1 @117659 has 35 MA's), (3, 117683), (5, 117725), (13, 117779), (22, 117860),

Gene: Leo04\_239 Start: 117772, Stop: 118014, Start Num: 1

Candidate Starts for Leo04\_239:

(Start: 1 @117772 has 35 MA's), (3, 117796), (5, 117838), (13, 117892), (22, 117973),

Gene: Liandry\_236 Start: 116955, Stop: 117200, Start Num: 1

Candidate Starts for Liandry\_236:

(Start: 1 @116955 has 35 MA's), (5, 117024), (13, 117078), (22, 117159),

Gene: LilMartin\_241 Start: 116855, Stop: 117091, Start Num: 1

Candidate Starts for LilMartin\_241:

(Start: 1 @116855 has 35 MA's), (13, 116975), (15, 117011), (21, 117050), (22, 117056), (24, 117077),

Gene: LukeCage\_252 Start: 116670, Stop: 116879, Start Num: 2

Candidate Starts for LukeCage\_252:

(Start: 2 @116670 has 30 MA's), (3, 116685), (4, 116691), (10, 116769), (18, 116820), (21, 116844), (22, 116850),

Gene: Lululemon\_235 Start: 116546, Stop: 116788, Start Num: 1

Candidate Starts for Lululemon\_235:

(Start: 1 @116546 has 35 MA's), (3, 116570), (5, 116612), (13, 116666), (22, 116747),

Gene: Marsus\_255 Start: 119206, Stop: 119442, Start Num: 1

Candidate Starts for Marsus\_255:

(Start: 1 @119206 has 35 MA's), (15, 119362), (21, 119401), (22, 119407),

Gene: Mildred21\_250 Start: 116453, Stop: 116692, Start Num: 1

Candidate Starts for Mildred21\_250:

(Start: 1 @116453 has 35 MA's), (3, 116474), (6, 116522), (8, 116537), (12, 116567), (19, 116624), (22, 116651),

Gene: MindFlayer\_242 Start: 114025, Stop: 114234, Start Num: 2

Candidate Starts for MindFlayer\_242:

(Start: 2 @114025 has 30 MA's), (4, 114046), (22, 114205),

Gene: Mugiwara\_262 Start: 117376, Stop: 117585, Start Num: 2

Candidate Starts for Mugiwara\_262:

(Start: 2 @117376 has 30 MA's), (4, 117397), (10, 117475), (22, 117556),

Gene: MulchMansion\_245 Start: 118489, Stop: 118725, Start Num: 1

Candidate Starts for MulchMansion\_245:

(Start: 1 @118489 has 35 MA's), (13, 118609), (15, 118645), (21, 118684), (22, 118690), (24, 118711),

Gene: Navo\_230 Start: 115105, Stop: 115347, Start Num: 1

Candidate Starts for Navo\_230:

(Start: 1 @115105 has 35 MA's), (5, 115171), (13, 115225), (22, 115306),

Gene: PacManQ\_235 Start: 116546, Stop: 116788, Start Num: 1

Candidate Starts for PacManQ\_235:

(Start: 1 @116546 has 35 MA's), (3, 116570), (5, 116612), (13, 116666), (22, 116747),

Gene: Paradiddles\_228 Start: 118175, Stop: 118417, Start Num: 1

Candidate Starts for Paradiddles\_228:

(Start: 1 @118175 has 35 MA's), (5, 118241), (13, 118295), (22, 118376),

Gene: Peebs\_234 Start: 117630, Stop: 117872, Start Num: 1

Candidate Starts for Peebs\_234:

(Start: 1 @117630 has 35 MA's), (3, 117654), (5, 117696), (13, 117750), (22, 117831),

Gene: Pepperwood\_238 Start: 117438, Stop: 117680, Start Num: 1

Candidate Starts for Pepperwood\_238:

(Start: 1 @117438 has 35 MA's), (3, 117462), (5, 117504), (13, 117558), (22, 117639),

Gene: Persimmon\_239 Start: 116299, Stop: 116544, Start Num: 1

Candidate Starts for Persimmon\_239:

(Start: 1 @116299 has 35 MA's), (5, 116368), (13, 116422), (22, 116503),

Gene: PinkiePie\_237 Start: 116955, Stop: 117200, Start Num: 1

Candidate Starts for PinkiePie\_237:

(Start: 1 @116955 has 35 MA's), (5, 117024), (13, 117078), (22, 117159),

Gene: PumpkinSpice\_252 Start: 115246, Stop: 115455, Start Num: 2

Candidate Starts for PumpkinSpice\_252:

(Start: 2 @115246 has 30 MA's), (4, 115267), (22, 115426),

Gene: Quaran19\_249 Start: 114687, Stop: 114896, Start Num: 2

Candidate Starts for Quaran19\_249:

(Start: 2 @114687 has 30 MA's), (4, 114708), (22, 114867),

Gene: Rikishi\_257 Start: 114968, Stop: 115177, Start Num: 2

Candidate Starts for Rikishi\_257:

(Start: 2 @114968 has 30 MA's), (4, 114989), (22, 115148),

Gene: Riptide\_245 Start: 116310, Stop: 116549, Start Num: 1

Candidate Starts for Riptide\_245:

(Start: 1 @116310 has 35 MA's), (3, 116331), (9, 116400), (14, 116430), (22, 116508),

Gene: SaltySpittoon\_249 Start: 114229, Stop: 114438, Start Num: 2

Candidate Starts for SaltySpittoon\_249:

(Start: 2 @114229 has 30 MA's), (4, 114250), (22, 114409),

Gene: Samisti12\_240 Start: 118695, Stop: 118937, Start Num: 1

Candidate Starts for Samisti12\_240:

(Start: 1 @118695 has 35 MA's), (3, 118719), (5, 118761), (13, 118815), (22, 118896),

Gene: Scheme\_241 Start: 118677, Stop: 118919, Start Num: 1

Candidate Starts for Scheme\_241:

(Start: 1 @118677 has 35 MA's), (3, 118701), (5, 118743), (13, 118797), (22, 118878),

Gene: Shuckle\_241 Start: 118156, Stop: 118374, Start Num: 3

Candidate Starts for Shuckle\_241:

(Start: 1 @118132 has 35 MA's), (3, 118156), (5, 118198), (13, 118252), (22, 118333),

Gene: Sollertia\_246 Start: 114659, Stop: 114871, Start Num: 2

Candidate Starts for Sollertia\_246:

(Start: 2 @114659 has 30 MA's), (7, 114731), (8, 114737), (10, 114758), (11, 114761), (21, 114833), (22, 114839),

Gene: Spelly\_254 Start: 114158, Stop: 114367, Start Num: 2

Candidate Starts for Spelly\_254:

(Start: 2 @114158 has 30 MA's), (4, 114179), (22, 114338),

Gene: Spilled\_256 Start: 115362, Stop: 115571, Start Num: 2

Candidate Starts for Spilled\_256:

(Start: 2 @115362 has 30 MA's), (4, 115383), (22, 115542),

Gene: Squillium\_239 Start: 116957, Stop: 117202, Start Num: 1

Candidate Starts for Squillium\_239:

(Start: 1 @116957 has 35 MA's), (5, 117026), (13, 117080), (22, 117161),

Gene: Stanimal\_245 Start: 115031, Stop: 115243, Start Num: 2

Candidate Starts for Stanimal\_245:

(Start: 2 @115031 has 30 MA's), (7, 115103), (8, 115109), (10, 115130), (11, 115133), (21, 115205), (22, 115211),

Gene: StarPlatinum\_257 Start: 117446, Stop: 117655, Start Num: 2

Candidate Starts for StarPlatinum\_257:

(Start: 2 @117446 has 30 MA's), (3, 117461), (4, 117467), (10, 117545), (16, 117590), (18, 117596), (20, 117608), (22, 117626),



Gene: Starbow\_246 Start: 114202, Stop: 114411, Start Num: 2

Candidate Starts for Starbow\_246:

(Start: 2 @114202 has 30 MA's), (4, 114223), (22, 114382),

Gene: Sushi23\_239 Start: 118496, Stop: 118738, Start Num: 1

Candidate Starts for Sushi23\_239:

(Start: 1 @118496 has 35 MA's), (3, 118520), (5, 118562), (13, 118616), (22, 118697),

Gene: Targaryen\_237 Start: 118528, Stop: 118770, Start Num: 1

Candidate Starts for Targaryen\_237:

(Start: 1 @118528 has 35 MA's), (5, 118594), (13, 118648), (21, 118723), (22, 118729),

Gene: Teutsch\_237 Start: 117861, Stop: 118103, Start Num: 1

Candidate Starts for Teutsch\_237:

(Start: 1 @117861 has 35 MA's), (3, 117885), (5, 117927), (13, 117981), (22, 118062),

Gene: TomSawyer\_253 Start: 116673, Stop: 116882, Start Num: 2

Candidate Starts for TomSawyer\_253:

(Start: 2 @116673 has 30 MA's), (4, 116694), (22, 116853),

Gene: Tomas\_246 Start: 117740, Stop: 117973, Start Num: 2

Candidate Starts for Tomas\_246:

(Start: 2 @117740 has 30 MA's), (21, 117920), (22, 117926),

Gene: Tribute\_234 Start: 118026, Stop: 118268, Start Num: 1

Candidate Starts for Tribute\_234:

(Start: 1 @118026 has 35 MA's), (3, 118050), (5, 118092), (13, 118146), (22, 118227),

Gene: Warpy\_241 Start: 117229, Stop: 117471, Start Num: 1

Candidate Starts for Warpy\_241:

(Start: 1 @117229 has 35 MA's), (5, 117295), (13, 117349), (21, 117424), (22, 117430),

Gene: Watermoore\_236 Start: 118250, Stop: 118492, Start Num: 1

Candidate Starts for Watermoore\_236:

(Start: 1 @118250 has 35 MA's), (3, 118274), (5, 118316), (13, 118370), (22, 118451),

Gene: WhereRU\_237 Start: 116636, Stop: 116878, Start Num: 1

Candidate Starts for WhereRU\_237:

(Start: 1 @116636 has 35 MA's), (5, 116702), (13, 116756), (22, 116837),

Gene: Wipeout\_239 Start: 115625, Stop: 115834, Start Num: 2

Candidate Starts for Wipeout\_239:

(Start: 2 @115625 has 30 MA's), (4, 115646), (22, 115805),

Gene: Wofford\_248 Start: 117708, Stop: 117935, Start Num: 2

Candidate Starts for Wofford\_248:

(Start: 2 @117708 has 30 MA's), (7, 117780), (8, 117786), (10, 117807), (11, 117810), (17, 117855), (18, 117858), (22, 117888),

Gene: Yaboi\_250 Start: 114594, Stop: 114806, Start Num: 2

Candidate Starts for Yaboi\_250:

(Start: 2 @114594 has 30 MA's), (7, 114666), (8, 114672), (10, 114693), (11, 114696), (21, 114768),  
(22, 114774),