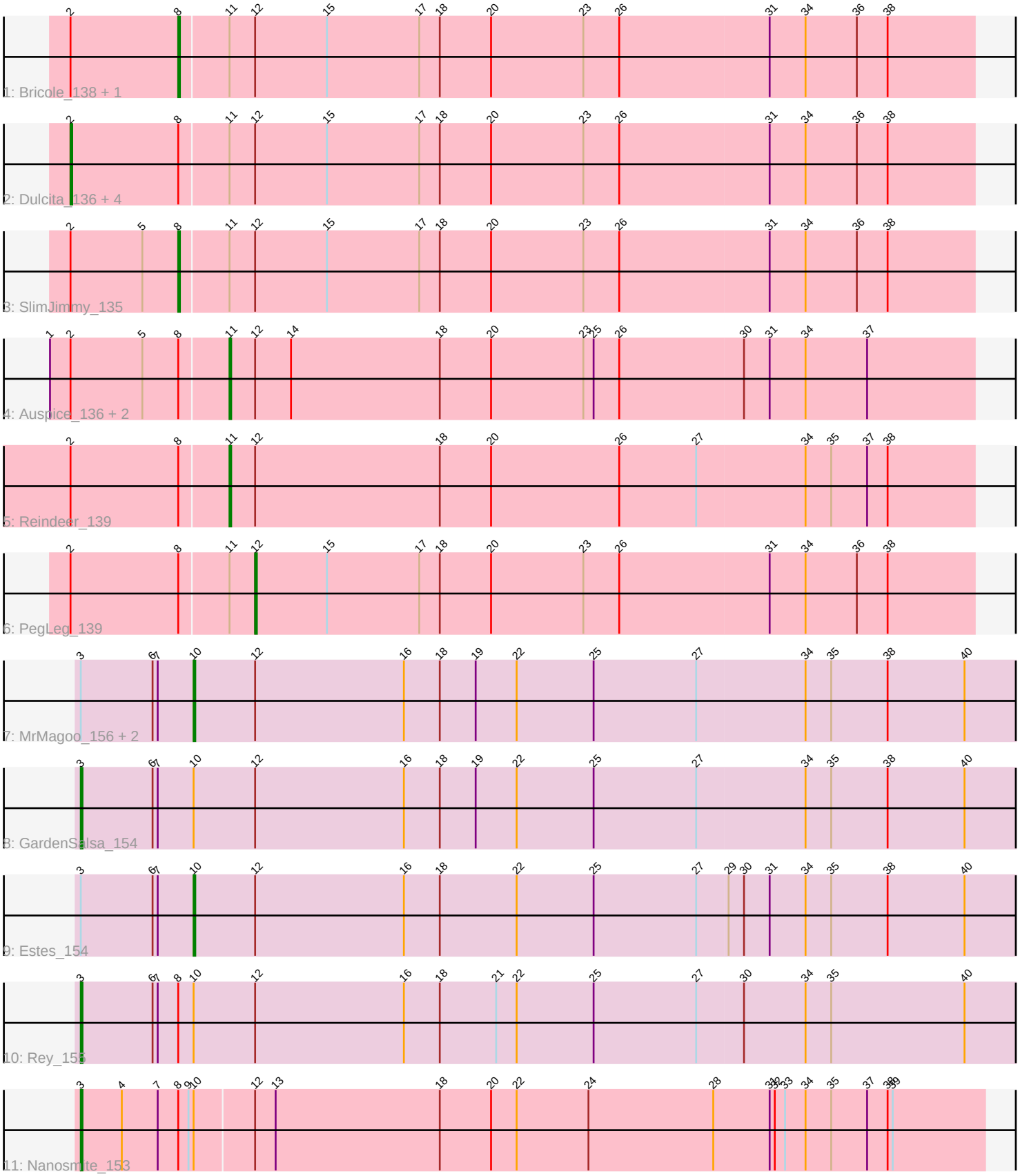
Pham 4603


1: Bricole_138 + 1
2: Dulcita_136 + 4
3: SlimJimmy_135
4: Auspice_136 + 2
5: Reindeer_139
6: PegLeg_139
7: MrMagoo_156 + 2
8: GardenSalsa_154
9: Estes_154
10: Rey_153
11: Nanosmite_153

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 4603 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4603 has 20 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Bricole_138, Bongo_135
• Track 2 : Dulcita_136, LilhomieP_136, Skinny_142, Glaske16_138, Diminimus_136
• Track 3 : SlimJimmy_135
• Track 4 : Auspice_136, TyDawg_131, IPhane7_134
• Track 5 : Reindeer_139
• Track 6 : PegLeg_139
• Track 7 : MrMagoo_156, GenevaB15_155, Aziz_152
• Track 8 : GardenSalsa_154
• Track 9 : Estes_154
• Track 10 : Rey_155
• Track 11 : Nanosmite_153

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

The start number called the most often in the published annotations is 2, it was called in 5 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Diminimus_136, Dulcita_136, Glaske16_138, LilhomieP_136, Skinny_142,

Genes that have the "Most Annotated" start but do not call it:
• Auspice_136, Bongo_135, Bricole_138, IPhane7_134, PegLeg_139, Reindeer_139, SlimJimmy_135, TyDawg_131,

Genes that do not have the "Most Annotated" start:
• Aziz_152, Estes_154, GardenSalsa_154, GenevaB15_155, MrMagoo_156, Nanosmite_153, Rey_155,

Summary by start number:

Start 2:
• Found in 13 of 20 (65.0%) of genes in pham
• Manual Annotations of this start: 5 of 20
• Called 38.5% of time when present

• Phage (with cluster) where this start called: Diminimus_136 (M1), Dulcita_136 (M1), Glaske16_138 (M1), LilhomieP_136 (M1), Skinny_142 (M1),

Start 3:
• Found in 7 of 20 (35.0%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 42.9% of time when present
• Phage (with cluster) where this start called: GardenSalsa_154 (M2), Nanosmite_153 (M3), Rey_155 (M2),

Start 8:
• Found in 15 of 20 (75.0%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Bongo_135 (M1), Bricole_138 (M1), SlimJimmy_135 (M1),

Start 10:
• Found in 7 of 20 (35.0%) of genes in pham
• Manual Annotations of this start: 4 of 20
• Called 57.1% of time when present
• Phage (with cluster) where this start called: Aziz_152 (M2), Estes_154 (M2), GenevaB15_155 (M2), MrMagoo_156 (M2),

Start 11:
• Found in 13 of 20 (65.0%) of genes in pham
• Manual Annotations of this start: 4 of 20
• Called 30.8% of time when present
• Phage (with cluster) where this start called: Auspice_136 (M1), IPhane7_134 (M1), Reindeer_139 (M1), TyDawg_131 (M1),

Start 12:
• Found in 20 of 20 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 5.0% of time when present
• Phage (with cluster) where this start called: PegLeg_139 (M1),

Summary by clusters:

There are 3 clusters represented in this pham: M1, M3, M2,

Info for manual annotations of cluster M1:
•Start number 2 was manually annotated 5 times for cluster M1.
•Start number 8 was manually annotated 3 times for cluster M1.
•Start number 11 was manually annotated 4 times for cluster M1.
•Start number 12 was manually annotated 1 time for cluster M1.

Info for manual annotations of cluster M2:
•Start number 3 was manually annotated 2 times for cluster M2.
•Start number 10 was manually annotated 4 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 3 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: Auspice_136 Start: 71477, Stop: 71043, Start Num: 11
Candidate Starts for Auspice_136:
(1, 71579), (Start: 2 @71567 has 5 MA's), (5, 71525), (Start: 8 @71504 has 3 MA's), (Start: 11 @71477 has 4 MA's), (Start: 12 @71462 has 1 MA's), (14, 71441), (18, 71354), (20, 71324), (23, 71270), (25, 71264), (26, 71249), (30, 71177), (31, 71162), (34, 71141), (37, 71105),

Gene: Aziz_152 Start: 73828, Stop: 73346, Start Num: 10
Candidate Starts for Aziz_152:
(Start: 3 @73894 has 3 MA's), (6, 73852), (7, 73849), (Start: 10 @73828 has 4 MA's), (Start: 12 @73792 has 1 MA's), (16, 73705), (18, 73684), (19, 73663), (22, 73639), (25, 73594), (27, 73534), (34, 73471), (35, 73456), (38, 73423), (40, 73378),

Gene: Bongo_135 Start: 71123, Stop: 70662, Start Num: 8
Candidate Starts for Bongo_135:
(Start: 2 @71186 has 5 MA's), (Start: 8 @71123 has 3 MA's), (Start: 11 @71096 has 4 MA's), (Start: 12 @71081 has 1 MA's), (15, 71039), (17, 70985), (18, 70973), (20, 70943), (23, 70889), (26, 70868), (31, 70781), (34, 70760), (36, 70730), (38, 70712),

Gene: Bricole_138 Start: 71268, Stop: 70807, Start Num: 8
Candidate Starts for Bricole_138:
(Start: 2 @71331 has 5 MA's), (Start: 8 @71268 has 3 MA's), (Start: 11 @71241 has 4 MA's), (Start: 12 @71226 has 1 MA's), (15, 71184), (17, 71130), (18, 71118), (20, 71088), (23, 71034), (26, 71013), (31, 70926), (34, 70905), (36, 70875), (38, 70857),

Gene: Diminimus_136 Start: 71002, Stop: 70478, Start Num: 2
Candidate Starts for Diminimus_136:
(Start: 2 @71002 has 5 MA's), (Start: 8 @70939 has 3 MA's), (Start: 11 @70912 has 4 MA's), (Start: 12 @70897 has 1 MA's), (15, 70855), (17, 70801), (18, 70789), (20, 70759), (23, 70705), (26, 70684), (31, 70597), (34, 70576), (36, 70546), (38, 70528),

Gene: Dulcita_136 Start: 71003, Stop: 70479, Start Num: 2
Candidate Starts for Dulcita_136:
(Start: 2 @71003 has 5 MA's), (Start: 8 @70940 has 3 MA's), (Start: 11 @70913 has 4 MA's), (Start: 12 @70898 has 1 MA's), (15, 70856), (17, 70802), (18, 70790), (20, 70760), (23, 70706), (26, 70685), (31, 70598), (34, 70577), (36, 70547), (38, 70529),

Gene: Estes_154 Start: 74197, Stop: 73715, Start Num: 10
Candidate Starts for Estes_154:
(Start: 3 @74263 has 3 MA's), (6, 74221), (7, 74218), (Start: 10 @74197 has 4 MA's), (Start: 12 @74161 has 1 MA's), (16, 74074), (18, 74053), (22, 74008), (25, 73963), (27, 73903), (29, 73885), (30, 73876), (31, 73861), (34, 73840), (35, 73825), (38, 73792), (40, 73747),

Gene: GardenSalsa_154 Start: 74430, Stop: 73882, Start Num: 3
Candidate Starts for GardenSalsa_154:
(Start: 3 @74430 has 3 MA's), (6, 74388), (7, 74385), (Start: 10 @74364 has 4 MA's), (Start: 12 @74328 has 1 MA's), (16, 74241), (18, 74220), (19, 74199), (22, 74175), (25, 74130), (27, 74070), (34, 74007), (35, 73992), (38, 73959), (40, 73914),

Gene: GenevaB15_155 Start: 73828, Stop: 73346, Start Num: 10
Candidate Starts for GenevaB15_155:
(Start: 3 @73894 has 3 MA's), (6, 73852), (7, 73849), (Start: 10 @73828 has 4 MA's), (Start: 12 @73792 has 1 MA's), (16, 73705), (18, 73684), (19, 73663), (22, 73639), (25, 73594), (27, 73534), (34, 73471), (35, 73456), (38, 73423), (40, 73378),

Gene: Glaske16_138 Start: 72121, Stop: 71597, Start Num: 2
Candidate Starts for Glaske16_138:
(Start: 2 @72121 has 5 MA's), (Start: 8 @72058 has 3 MA's), (Start: 11 @72031 has 4 MA's), (Start: 12 @72016 has 1 MA's), (15, 71974), (17, 71920), (18, 71908), (20, 71878), (23, 71824), (26, 71803), (31, 71716), (34, 71695), (36, 71665), (38, 71647),

Gene: IPhane7_134 Start: 71093, Stop: 70659, Start Num: 11
Candidate Starts for IPhane7_134:
(1, 71195), (Start: 2 @71183 has 5 MA's), (5, 71141), (Start: 8 @71120 has 3 MA's), (Start: 11 @71093 has 4 MA's), (Start: 12 @71078 has 1 MA's), (14, 71057), (18, 70970), (20, 70940), (23, 70886), (25, 70880), (26, 70865), (30, 70793), (31, 70778), (34, 70757), (37, 70721),

Gene: LilhomieP_136 Start: 72032, Stop: 71508, Start Num: 2
Candidate Starts for LilhomieP_136:
(Start: 2 @72032 has 5 MA's), (Start: 8 @71969 has 3 MA's), (Start: 11 @71942 has 4 MA's), (Start: 12 @71927 has 1 MA's), (15, 71885), (17, 71831), (18, 71819), (20, 71789), (23, 71735), (26, 71714), (31, 71627), (34, 71606), (36, 71576), (38, 71558),

Gene: MrMagoo_156 Start: 74365, Stop: 73883, Start Num: 10
Candidate Starts for MrMagoo_156:
(Start: 3 @74431 has 3 MA's), (6, 74389), (7, 74386), (Start: 10 @74365 has 4 MA's), (Start: 12 @74329 has 1 MA's), (16, 74242), (18, 74221), (19, 74200), (22, 74176), (25, 74131), (27, 74071), (34, 74008), (35, 73993), (38, 73960), (40, 73915),

Gene: Nanosmite_153 Start: 74306, Stop: 73782, Start Num: 3
Candidate Starts for Nanosmite_153:
(Start: 3 @74306 has 3 MA's), (4, 74282), (7, 74261), (Start: 8 @74249 has 3 MA's), (9, 74243), (Start: 10 @74240 has 4 MA's), (Start: 12 @74207 has 1 MA's), (13, 74195), (18, 74099), (20, 74069), (22, 74054), (24, 74012), (28, 73940), (31, 73907), (32, 73904), (33, 73898), (34, 73886), (35, 73871), (37, 73850), (38, 73838), (39, 73835),

Gene: PegLeg_139 Start: 71811, Stop: 71392, Start Num: 12
Candidate Starts for PegLeg_139:
(Start: 2 @71916 has 5 MA's), (Start: 8 @71853 has 3 MA's), (Start: 11 @71826 has 4 MA's), (Start: 12 @71811 has 1 MA's), (15, 71769), (17, 71715), (18, 71703), (20, 71673), (23, 71619), (26, 71598), (31, 71511), (34, 71490), (36, 71460), (38, 71442),

Gene: Reindeer_139 Start: 73266, Stop: 72832, Start Num: 11
Candidate Starts for Reindeer_139:
(Start: 2 @73356 has 5 MA's), (Start: 8 @73293 has 3 MA's), (Start: 11 @73266 has 4 MA's), (Start: 12 @73251 has 1 MA's), (18, 73143), (20, 73113), (26, 73038), (27, 72993), (34, 72930), (35, 72915), (37, 72894), (38, 72882),

Gene: Rey_155 Start: 73685, Stop: 73137, Start Num: 3
Candidate Starts for Rey_155:
(Start: 3 @73685 has 3 MA's), (6, 73643), (7, 73640), (Start: 8 @73628 has 3 MA's), (Start: 10 @73619 has 4 MA's), (Start: 12 @73583 has 1 MA's), (16, 73496), (18, 73475), (21, 73442), (22,

73430), (25, 73385), (27, 73325), (30, 73298), (34, 73262), (35, 73247), (40, 73169),

Gene: Skinny_142 Start: 73033, Stop: 72509, Start Num: 2
Candidate Starts for Skinny_142:
(Start: 2 @73033 has 5 MA's), (Start: 8 @72970 has 3 MA's), (Start: 11 @72943 has 4 MA's), (Start: 12 @72928 has 1 MA's), (15, 72886), (17, 72832), (18, 72820), (20, 72790), (23, 72736), (26, 72715), (31, 72628), (34, 72607), (36, 72577), (38, 72559),

Gene: SlimJimmy_135 Start: 71679, Stop: 71218, Start Num: 8
Candidate Starts for SlimJimmy_135:
(Start: 2 @71742 has 5 MA's), (5, 71700), (Start: 8 @71679 has 3 MA's), (Start: 11 @71652 has 4 MA's), (Start: 12 @71637 has 1 MA's), (15, 71595), (17, 71541), (18, 71529), (20, 71499), (23, 71445), (26, 71424), (31, 71337), (34, 71316), (36, 71286), (38, 71268),

Gene: TyDawg_131 Start: 71096, Stop: 70662, Start Num: 11
Candidate Starts for TyDawg_131:
(1, 71198), (Start: 2 @71186 has 5 MA's), (5, 71144), (Start: 8 @71123 has 3 MA's), (Start: 11 @71096 has 4 MA's), (Start: 12 @71081 has 1 MA's), (14, 71060), (18, 70973), (20, 70943), (23, 70889), (25, 70883), (26, 70868), (30, 70796), (31, 70781), (34, 70760), (37, 70724),