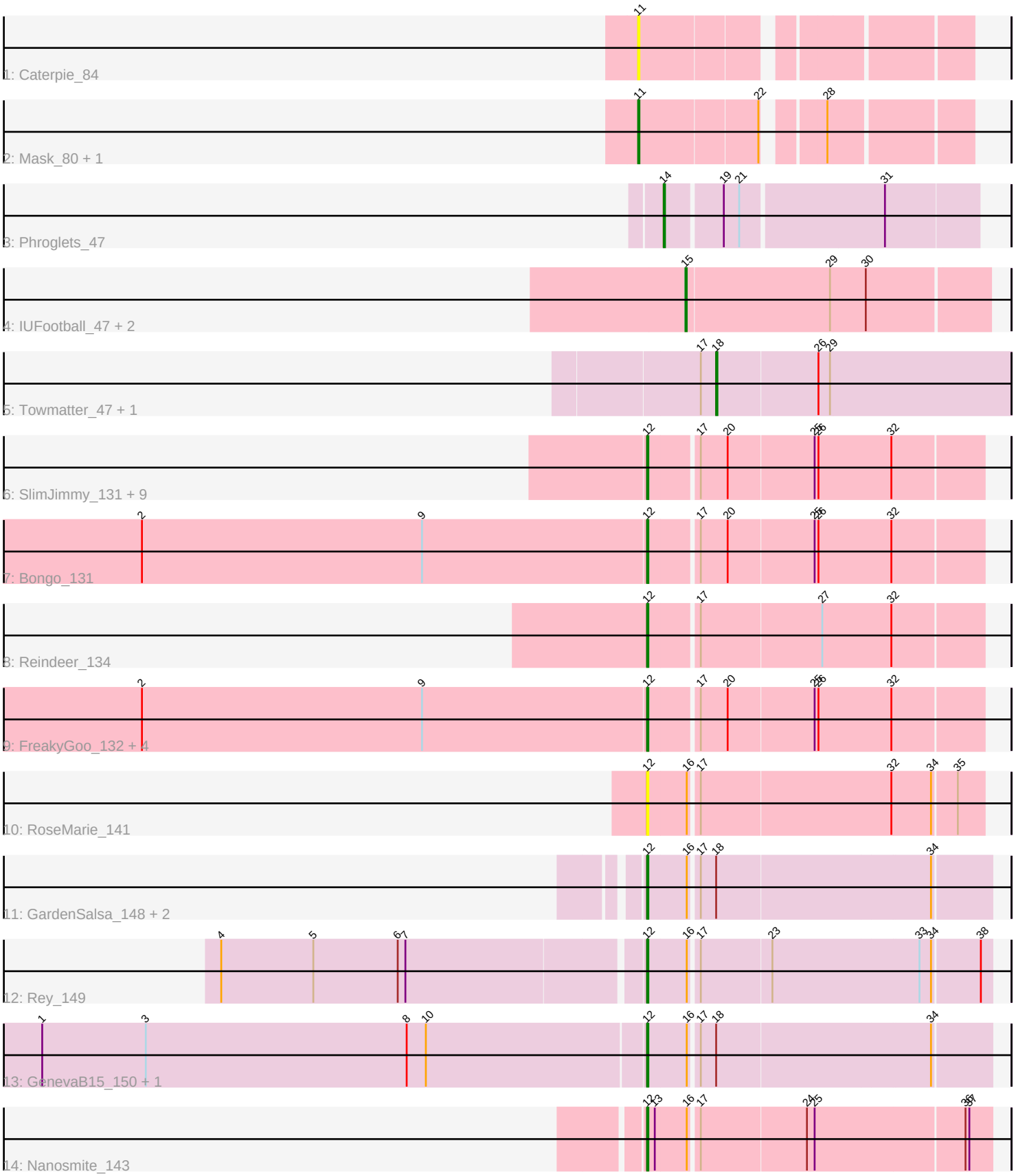
Pham 345970


1: Caterpie_84
2: Mask_80 + 1
3: Phroglets_47
4: IUFootball_47 + 2
5: Towmatter_47 + 1
6: SlimJimmy_131 + 9
7: Bongo_131
8: Reindeer_134
9: FreakyGoo_132 + 4
10: RoseMarie_141
11: GardenSalsa_148 + 2
12: Rey_149
13: GenevaB15_150 + 1
14: Nanosmite_143

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 345970 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345970 has 34 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Caterpie_84
• Track 2 : Mask_80, Sejanus_81
• Track 3 : Phroglets_47
• Track 4 : IUFootball_47, Maureen_47, Liebe_47
• Track 5 : Towmatter_47, Daredevil_48
• Track 6 : SlimJimmy_131, PegLeg_135, Glaske16_134, Diminimus_132, Izel_132, LilhomieP_132, Skinny_138, KleverKiS_135, Dulcita_132, TpudiCK_133
• Track 7 : Bongo_131
• Track 8 : Reindeer_134
• Track 9 : FreakyGoo_132, Bricole_134, TyDawg_127, IPhane7_130, Auspice_132
• Track 10 : RoseMarie_141
• Track 11 : GardenSalsa_148, MrMagoo_150, Estes_148
• Track 12 : Rey_149
• Track 13 : GenevaB15_150, Aziz_147
• Track 14 : Nanosmite_143

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

The start number called the most often in the published annotations is 12, it was called in 22 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auspice_132, Aziz_147, Bongo_131, Bricole_134, Diminimus_132, Dulcita_132, Estes_148, FreakyGoo_132, GardenSalsa_148, GenevaB15_150, Glaske16_134, IPhane7_130, Izel_132, KleverKiS_135, LilhomieP_132, MrMagoo_150, Nanosmite_143, PegLeg_135, Reindeer_134, Rey_149, RoseMarie_141, Skinny_138, SlimJimmy_131, TpudiCK_133, TyDawg_127,

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

Genes that do not have the "Most Annotated" start:
• Caterpie_84, Daredevil_48, IUFootball_47, Liebe_47, Mask_80, Maureen_47, Phroglets_47, Sejanus_81, Towmatter_47,

Summary by start number:

Start 11:
• Found in 3 of 34 (8.8%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Caterpie_84 (AD), Mask_80 (AD), Sejanus_81 (AD),

Start 12:
• Found in 25 of 34 (73.5%) of genes in pham
• Manual Annotations of this start: 22 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Auspice_132 (M1), Aziz_147 (M2), Bongo_131 (M1), Bricole_134 (M1), Diminimus_132 (M1), Dulcita_132 (M1), Estes_148 (M2), FreakyGoo_132 (M1), GardenSalsa_148 (M2), GenevaB15_150 (M2), Glaske16_134 (M1), IPhane7_130 (M1), Izel_132 (M1), KleverKiS_135 (M1), LilhomieP_132 (M1), MrMagoo_150 (M2), Nanosmite_143 (M3), PegLeg_135 (M1), Reindeer_134 (M1), Rey_149 (M2), RoseMarie_141 (M1), Skinny_138 (M1), SlimJimmy_131 (M1), TpudiCK_133 (M1), TyDawg_127 (M1),

Start 14:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phroglets_47 (AV),

Start 15:
• Found in 3 of 34 (8.8%) of genes in pham
• Manual Annotations of this start: 3 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IUFootball_47 (AZ2), Liebe_47 (AZ2), Maureen_47 (AZ2),

Start 18:
• Found in 7 of 34 (20.6%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Daredevil_48 (DL), Towmatter_47 (DL),

Summary by clusters:

There are 7 clusters represented in this pham: DL, AD, M2, M1, M3, AV, AZ2,

Info for manual annotations of cluster AD:
•Start number 11 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster AV:
•Start number 14 was manually annotated 1 time for cluster AV.

Info for manual annotations of cluster AZ2:
•Start number 15 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster DL:
•Start number 18 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster M1:
•Start number 12 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 12 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 12 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: Auspice_132 Start: 70026, Stop: 69775, Start Num: 12
Candidate Starts for Auspice_132:
(2, 70419), (9, 70200), (Start: 12 @70026 has 22 MA's), (17, 69990), (20, 69969), (25, 69903), (26, 69900), (32, 69843),

Gene: Aziz_147 Start: 71227, Stop: 70973, Start Num: 12
Candidate Starts for Aziz_147:
(1, 71695), (3, 71614), (8, 71410), (10, 71395), (Start: 12 @71227 has 22 MA's), (16, 71197), (17, 71191), (Start: 18 @71179 has 2 MA's), (34, 71017),

Gene: Bongo_131 Start: 69642, Stop: 69391, Start Num: 12
Candidate Starts for Bongo_131:
(2, 70035), (9, 69816), (Start: 12 @69642 has 22 MA's), (17, 69606), (20, 69585), (25, 69519), (26, 69516), (32, 69459),

Gene: Bricole_134 Start: 69790, Stop: 69539, Start Num: 12
Candidate Starts for Bricole_134:
(2, 70183), (9, 69964), (Start: 12 @69790 has 22 MA's), (17, 69754), (20, 69733), (25, 69667), (26, 69664), (32, 69607),

Gene: Caterpie_84 Start: 56101, Stop: 56331, Start Num: 11
Candidate Starts for Caterpie_84:
(Start: 11 @56101 has 2 MA's),

Gene: Daredevil_48 Start: 40251, Stop: 40478, Start Num: 18
Candidate Starts for Daredevil_48:
(17, 40239), (Start: 18 @40251 has 2 MA's), (26, 40329), (29, 40338),

Gene: Diminimus_132 Start: 69458, Stop: 69207, Start Num: 12
Candidate Starts for Diminimus_132:
(Start: 12 @69458 has 22 MA's), (17, 69422), (20, 69401), (25, 69335), (26, 69332), (32, 69275),

Gene: Dulcita_132 Start: 69459, Stop: 69208, Start Num: 12
Candidate Starts for Dulcita_132:
(Start: 12 @69459 has 22 MA's), (17, 69423), (20, 69402), (25, 69336), (26, 69333), (32, 69276),

Gene: Estes_148 Start: 71395, Stop: 71141, Start Num: 12
Candidate Starts for Estes_148:
(Start: 12 @71395 has 22 MA's), (16, 71365), (17, 71359), (Start: 18 @71347 has 2 MA's), (34, 71185),

Gene: FreakyGoo_132 Start: 69943, Stop: 69692, Start Num: 12
Candidate Starts for FreakyGoo_132:
(2, 70336), (9, 70117), (Start: 12 @69943 has 22 MA's), (17, 69907), (20, 69886), (25, 69820), (26, 69817), (32, 69760),

Gene: GardenSalsa_148 Start: 71569, Stop: 71315, Start Num: 12
Candidate Starts for GardenSalsa_148:
(Start: 12 @71569 has 22 MA's), (16, 71539), (17, 71533), (Start: 18 @71521 has 2 MA's), (34, 71359),

Gene: GenevaB15_150 Start: 71227, Stop: 70973, Start Num: 12
Candidate Starts for GenevaB15_150:
(1, 71695), (3, 71614), (8, 71410), (10, 71395), (Start: 12 @71227 has 22 MA's), (16, 71197), (17, 71191), (Start: 18 @71179 has 2 MA's), (34, 71017),

Gene: Glaske16_134 Start: 70577, Stop: 70326, Start Num: 12
Candidate Starts for Glaske16_134:
(Start: 12 @70577 has 22 MA's), (17, 70541), (20, 70520), (25, 70454), (26, 70451), (32, 70394),

Gene: IPhane7_130 Start: 69642, Stop: 69391, Start Num: 12
Candidate Starts for IPhane7_130:
(2, 70035), (9, 69816), (Start: 12 @69642 has 22 MA's), (17, 69606), (20, 69585), (25, 69519), (26, 69516), (32, 69459),

Gene: IUFootball_47 Start: 35159, Stop: 35389, Start Num: 15
Candidate Starts for IUFootball_47:
(Start: 15 @35159 has 3 MA's), (29, 35270), (30, 35297),

Gene: Izel_132 Start: 69458, Stop: 69207, Start Num: 12
Candidate Starts for Izel_132:
(Start: 12 @69458 has 22 MA's), (17, 69422), (20, 69401), (25, 69335), (26, 69332), (32, 69275),

Gene: KleverKiS_135 Start: 70695, Stop: 70444, Start Num: 12
Candidate Starts for KleverKiS_135:
(Start: 12 @70695 has 22 MA's), (17, 70659), (20, 70638), (25, 70572), (26, 70569), (32, 70512),

Gene: Liebe_47 Start: 35159, Stop: 35389, Start Num: 15
Candidate Starts for Liebe_47:
(Start: 15 @35159 has 3 MA's), (29, 35270), (30, 35297),

Gene: LilhomieP_132 Start: 70488, Stop: 70237, Start Num: 12
Candidate Starts for LilhomieP_132:
(Start: 12 @70488 has 22 MA's), (17, 70452), (20, 70431), (25, 70365), (26, 70362), (32, 70305),

Gene: Mask_80 Start: 58173, Stop: 58403, Start Num: 11
Candidate Starts for Mask_80:
(Start: 11 @58173 has 2 MA's), (22, 58263), (28, 58299),

Gene: Maureen_47 Start: 35159, Stop: 35389, Start Num: 15
Candidate Starts for Maureen_47:

(Start: 15 @35159 has 3 MA's), (29, 35270), (30, 35297),

Gene: MrMagoo_150 Start: 71570, Stop: 71316, Start Num: 12
Candidate Starts for MrMagoo_150:
(Start: 12 @71570 has 22 MA's), (16, 71540), (17, 71534), (Start: 18 @71522 has 2 MA's), (34, 71360),

Gene: Nanosmite_143 Start: 71479, Stop: 71222, Start Num: 12
Candidate Starts for Nanosmite_143:
(Start: 12 @71479 has 22 MA's), (13, 71473), (16, 71449), (17, 71443), (24, 71362), (25, 71356), (36, 71242), (37, 71239),

Gene: PegLeg_135 Start: 70372, Stop: 70121, Start Num: 12
Candidate Starts for PegLeg_135:
(Start: 12 @70372 has 22 MA's), (17, 70336), (20, 70315), (25, 70249), (26, 70246), (32, 70189),

Gene: Phroglets_47 Start: 39977, Stop: 39744, Start Num: 14
Candidate Starts for Phroglets_47:
(Start: 14 @39977 has 1 MA's), (19, 39935), (21, 39923), (31, 39815),

Gene: Reindeer_134 Start: 71621, Stop: 71370, Start Num: 12
Candidate Starts for Reindeer_134:
(Start: 12 @71621 has 22 MA's), (17, 71585), (27, 71492), (32, 71438),

Gene: Rey_149 Start: 70820, Stop: 70566, Start Num: 12
Candidate Starts for Rey_149:
(4, 71141), (5, 71069), (6, 71003), (7, 70997), (Start: 12 @70820 has 22 MA's), (16, 70790), (17, 70784), (23, 70730), (33, 70619), (34, 70610), (38, 70574),

Gene: RoseMarie_141 Start: 73406, Stop: 73155, Start Num: 12
Candidate Starts for RoseMarie_141:
(Start: 12 @73406 has 22 MA's), (16, 73376), (17, 73370), (32, 73223), (34, 73193), (35, 73175),

Gene: Sejanus_81 Start: 57029, Stop: 57259, Start Num: 11
Candidate Starts for Sejanus_81:
(Start: 11 @57029 has 2 MA's), (22, 57119), (28, 57155),

Gene: Skinny_138 Start: 71489, Stop: 71238, Start Num: 12
Candidate Starts for Skinny_138:
(Start: 12 @71489 has 22 MA's), (17, 71453), (20, 71432), (25, 71366), (26, 71363), (32, 71306),

Gene: SlimJimmy_131 Start: 70198, Stop: 69947, Start Num: 12
Candidate Starts for SlimJimmy_131:
(Start: 12 @70198 has 22 MA's), (17, 70162), (20, 70141), (25, 70075), (26, 70072), (32, 70015),

Gene: Towmatter_47 Start: 40088, Stop: 40315, Start Num: 18
Candidate Starts for Towmatter_47:
(17, 40076), (Start: 18 @40088 has 2 MA's), (26, 40166), (29, 40175),

Gene: TpudiCK_133 Start: 69463, Stop: 69212, Start Num: 12
Candidate Starts for TpudiCK_133:
(Start: 12 @69463 has 22 MA's), (17, 69427), (20, 69406), (25, 69340), (26, 69337), (32, 69280),

Gene: TyDawg_127 Start: 69645, Stop: 69394, Start Num: 12

Candidate Starts for TyDawg_127:
(2, 70038), (9, 69819), (Start: 12 @69645 has 22 MA's), (17, 69609), (20, 69588), (25, 69522), (26, 69519), (32, 69462),