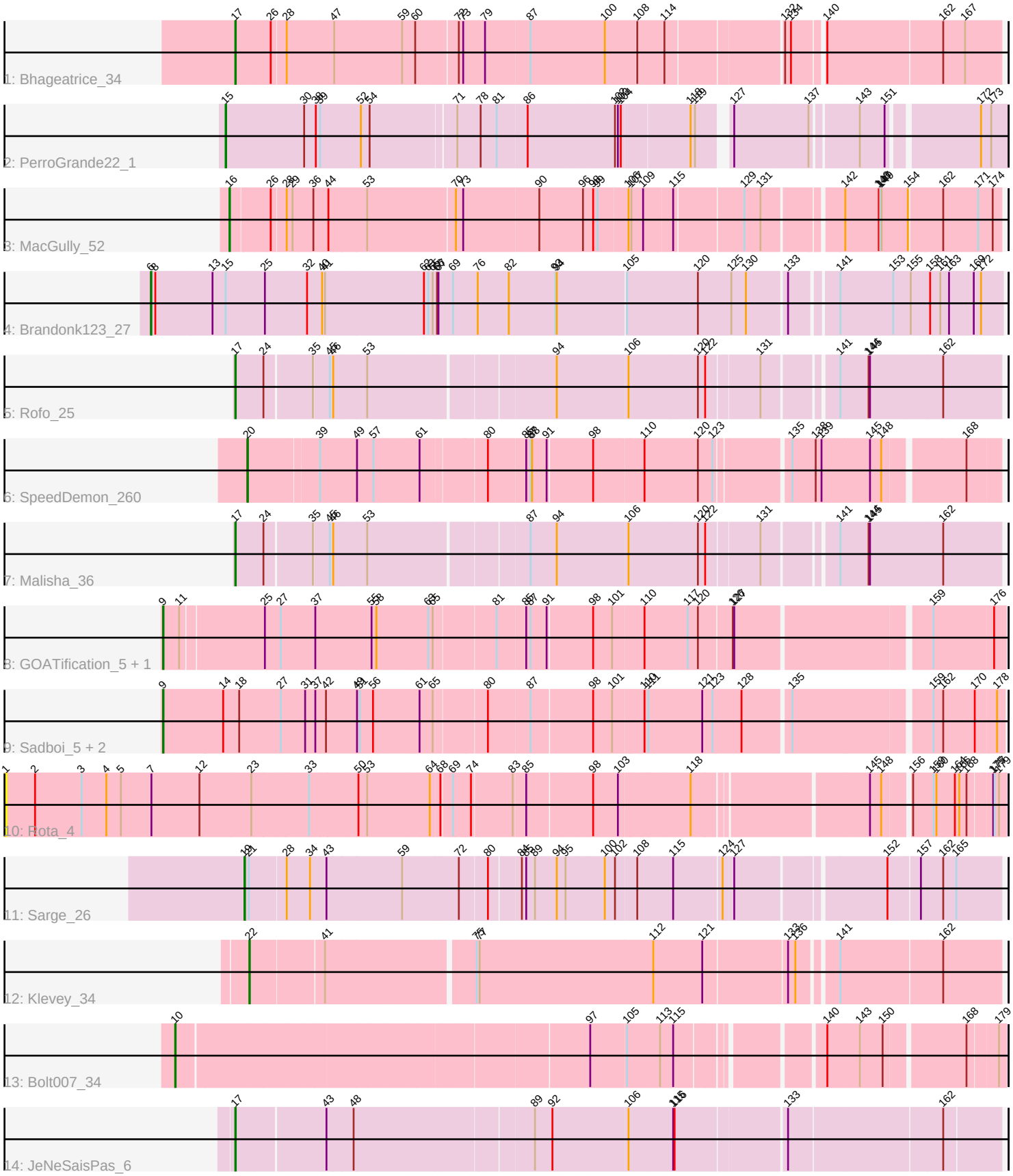
Pham 342631


1: Bhageatrice_34
2: PerroGrande22_1
3: MacGully_52
4: Brandonk123_27
5: Rofo_25
6: SpeedDemon_260
7: Malisha_36
8: GOATification_5 + 1
9: Sadboi_5 + 2
10: Rota_4
11: Sarge_26
12: Klevey_34
13: Bolt007_34
14: JeNeSaisPas_6

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 342631 Report

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

Pham number 342631 has 17 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Bhageatrice_34
• Track 2 : PerroGrande22_1
• Track 3 : MacGully_52
• Track 4 : Brandonk123_27
• Track 5 : Rofo_25
• Track 6 : SpeedDemon_260
• Track 7 : Malisha_36
• Track 8 : GOATification_5, Fulcrum_5
• Track 9 : Sadboi_5, GretelLyn_5, Yikes_5
• Track 10 : Rota_4
• Track 11 : Sarge_26
• Track 12 : Klevey_34
• Track 13 : Bolt007_34
• Track 14 : JeNeSaisPas_6

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

The start number called the most often in the published annotations is 9, it was called in 5 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fulcrum_5, GOATification_5, GretelLyn_5, Sadboi_5, Yikes_5,

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

Genes that do not have the "Most Annotated" start:
• Bhageatrice_34, Bolt007_34, Brandonk123_27, JeNeSaisPas_6, Klevey_34, MacGully_52, Malisha_36, PerroGrande22_1, Rofo_25, Rota_4, Sarge_26, SpeedDemon_260,

Summary by start number:

Start 1:

• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rota_4 (DV),

Start 6:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brandonk123_27 (DE1),

Start 9:
• Found in 5 of 17 (29.4%) of genes in pham
• Manual Annotations of this start: 5 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fulcrum_5 (DV), GOATification_5 (DV), GretelLyn_5 (DV), Sadboi_5 (DV), Yikes_5 (DV),

Start 10:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bolt007_34 (FH),

Start 15:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 50.0% of time when present
• Phage (with cluster) where this start called: PerroGrande22_1 (CC),

Start 16:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MacGully_52 (CR7),

Start 17:
• Found in 4 of 17 (23.5%) of genes in pham
• Manual Annotations of this start: 4 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bhageatrice_34 (AY), JeNeSaisPas_6 (FK), Malisha_36 (DN), Rofo_25 (DE1),

Start 19:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sarge_26 (FB),

Start 20:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present

• Phage (with cluster) where this start called: SpeedDemon_260 (DL),

Start 22:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Klevey_34 (FH),

Summary by clusters:

There are 10 clusters represented in this pham: DN, DL, CR7, CC, DE1, DV, FB, AY, FH, FK,

Info for manual annotations of cluster AY:
•Start number 17 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CC:
•Start number 15 was manually annotated 1 time for cluster CC.

Info for manual annotations of cluster CR7:
•Start number 16 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster DE1:
•Start number 6 was manually annotated 1 time for cluster DE1.
•Start number 17 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster DL:
•Start number 20 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DN:
•Start number 17 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DV:
•Start number 9 was manually annotated 5 times for cluster DV.

Info for manual annotations of cluster FB:
•Start number 19 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FH:
•Start number 10 was manually annotated 1 time for cluster FH.
•Start number 22 was manually annotated 1 time for cluster FH.

Info for manual annotations of cluster FK:
•Start number 17 was manually annotated 1 time for cluster FK.

Gene Information:

Gene: Bhageatrice_34 Start: 23225, Stop: 24667, Start Num: 17
Candidate Starts for Bhageatrice_34:
(Start: 17 @23225 has 4 MA's), (26, 23291), (28, 23315), (47, 23408), (59, 23546), (60, 23570), (72, 23651), (73, 23657), (79, 23696), (87, 23786), (100, 23933), (108, 23993), (114, 24047), (132, 24260),

(134, 24269), (140, 24323), (162, 24551), (167, 24596),

Gene: Bolt007_34 Start: 26872, Stop: 28398, Start Num: 10
Candidate Starts for Bolt007_34:
(Start: 10 @26872 has 1 MA's), (97, 27652), (105, 27721), (113, 27787), (115, 27811), (140, 28063), (143, 28129), (150, 28174), (168, 28327), (179, 28384),

Gene: Brandonk123_27 Start: 19364, Stop: 21058, Start Num: 6
Candidate Starts for Brandonk123_27:
(Start: 6 @19364 has 1 MA's), (8, 19373), (13, 19490), (Start: 15 @19517 has 1 MA's), (25, 19595), (32, 19679), (40, 19709), (41, 19715), (62, 19916), (63, 19925), (65, 19934), (66, 19943), (67, 19946), (69, 19976), (76, 20027), (82, 20090), (93, 20186), (94, 20189), (105, 20324), (120, 20465), (125, 20534), (130, 20564), (133, 20639), (141, 20726), (153, 20834), (155, 20870), (158, 20909), (161, 20930), (163, 20948), (169, 20999), (172, 21014),

Gene: Fulcrum_5 Start: 4907, Stop: 6511, Start Num: 9
Candidate Starts for Fulcrum_5:
(Start: 9 @4907 has 5 MA's), (11, 4940), (25, 5102), (27, 5132), (37, 5201), (55, 5315), (58, 5324), (63, 5426), (65, 5435), (81, 5549), (85, 5606), (87, 5615), (91, 5645), (98, 5735), (101, 5774), (110, 5834), (117, 5915), (120, 5936), (126, 6002), (127, 6005), (159, 6371), (176, 6488),

Gene: GOATification_5 Start: 4907, Stop: 6511, Start Num: 9
Candidate Starts for GOATification_5:
(Start: 9 @4907 has 5 MA's), (11, 4940), (25, 5102), (27, 5132), (37, 5201), (55, 5315), (58, 5324), (63, 5426), (65, 5435), (81, 5549), (85, 5606), (87, 5615), (91, 5645), (98, 5735), (101, 5774), (110, 5834), (117, 5915), (120, 5936), (126, 6002), (127, 6005), (159, 6371), (176, 6488),

Gene: GretelLyn_5 Start: 4844, Stop: 6460, Start Num: 9
Candidate Starts for GretelLyn_5:
(Start: 9 @4844 has 5 MA's), (14, 4967), (18, 5000), (27, 5081), (31, 5129), (37, 5150), (42, 5171), (49, 5234), (51, 5240), (56, 5267), (61, 5357), (65, 5384), (80, 5480), (87, 5564), (98, 5684), (101, 5723), (110, 5783), (111, 5789), (121, 5894), (123, 5915), (128, 5969), (135, 6059), (159, 6323), (162, 6341), (170, 6404), (178, 6446),

Gene: JeNeSaisPas_6 Start: 2189, Stop: 3658, Start Num: 17
Candidate Starts for JeNeSaisPas_6:
(Start: 17 @2189 has 4 MA's), (43, 2363), (48, 2417), (89, 2762), (92, 2798), (106, 2942), (115, 3029), (116, 3032), (133, 3242), (162, 3545),

Gene: Klevey_34 Start: 25869, Stop: 27302, Start Num: 22
Candidate Starts for Klevey_34:
(Start: 22 @25869 has 1 MA's), (41, 26010), (75, 26292), (77, 26298), (112, 26640), (121, 26739), (133, 26901), (136, 26916), (141, 26985), (162, 27186),

Gene: MacGully_52 Start: 34011, Stop: 35462, Start Num: 16
Candidate Starts for MacGully_52:
(Start: 16 @34011 has 1 MA's), (26, 34083), (28, 34110), (29, 34122), (36, 34158), (44, 34188), (53, 34263), (70, 34431), (73, 34446), (90, 34596), (96, 34680), (98, 34698), (99, 34707), (106, 34767), (107, 34773), (109, 34797), (115, 34848), (129, 34980), (131, 35013), (142, 35154), (146, 35223), (147, 35226), (149, 35229), (154, 35280), (162, 35346), (171, 35418), (174, 35445),

Gene: Malisha_36 Start: 27449, Stop: 28879, Start Num: 17
Candidate Starts for Malisha_36:

(Start: 17 @27449 has 4 MA's), (24, 27503), (35, 27590), (45, 27620), (46, 27626), (53, 27692), (87, 27986), (94, 28040), (106, 28175), (120, 28310), (122, 28325), (131, 28424), (141, 28556), (144, 28613), (145, 28616), (162, 28763),

Gene: PerroGrande22_1 Start: 116, Stop: 1597, Start Num: 15
Candidate Starts for PerroGrande22_1:
(Start: 15 @116 has 1 MA's), (30, 278), (38, 302), (39, 311), (52, 395), (54, 413), (71, 581), (78, 623), (81, 656), (86, 716), (102, 884), (103, 890), (104, 896), (118, 1028), (119, 1037), (127, 1088), (137, 1235), (143, 1322), (151, 1373), (172, 1544), (173, 1562),

Gene: Rofo_25 Start: 19691, Stop: 21121, Start Num: 17
Candidate Starts for Rofo_25:
(Start: 17 @19691 has 4 MA's), (24, 19745), (35, 19832), (45, 19862), (46, 19868), (53, 19934), (94, 20282), (106, 20417), (120, 20552), (122, 20567), (131, 20666), (141, 20798), (144, 20855), (145, 20858), (162, 21005),

Gene: Rota_4 Start: 3338, Stop: 5257, Start Num: 1
Candidate Starts for Rota_4:
(1, 3338), (2, 3398), (3, 3494), (4, 3545), (5, 3575), (7, 3638), (12, 3737), (23, 3842), (33, 3950), (50, 4046), (53, 4064), (64, 4190), (68, 4208), (69, 4229), (74, 4262), (83, 4343), (85, 4367), (98, 4490), (103, 4541), (118, 4676), (145, 5009), (148, 5030), (156, 5078), (159, 5120), (160, 5126), (164, 5162), (166, 5171), (168, 5186), (175, 5231), (177, 5234), (179, 5243),

Gene: Sadboi_5 Start: 4844, Stop: 6460, Start Num: 9
Candidate Starts for Sadboi_5:
(Start: 9 @4844 has 5 MA's), (14, 4967), (18, 5000), (27, 5081), (31, 5129), (37, 5150), (42, 5171), (49, 5234), (51, 5240), (56, 5267), (61, 5357), (65, 5384), (80, 5480), (87, 5564), (98, 5684), (101, 5723), (110, 5783), (111, 5789), (121, 5894), (123, 5915), (128, 5969), (135, 6059), (159, 6323), (162, 6341), (170, 6404), (178, 6446),

Gene: Sarge_26 Start: 19160, Stop: 20605, Start Num: 19
Candidate Starts for Sarge_26:
(Start: 19 @19160 has 1 MA's), (21, 19169), (28, 19238), (34, 19286), (43, 19319), (59, 19472), (72, 19583), (80, 19631), (84, 19691), (85, 19700), (89, 19718), (94, 19763), (95, 19778), (100, 19853), (102, 19874), (108, 19916), (115, 19985), (124, 20081), (127, 20099), (152, 20381), (157, 20441), (162, 20486), (165, 20513),

Gene: SpeedDemon_260 Start: 16423, Stop: 17838, Start Num: 20
Candidate Starts for SpeedDemon_260:
(Start: 20 @16423 has 1 MA's), (39, 16558), (49, 16633), (57, 16666), (61, 16756), (80, 16876), (85, 16951), (87, 16960), (88, 16963), (91, 16993), (98, 17083), (110, 17179), (120, 17278), (123, 17308), (135, 17443), (138, 17491), (139, 17503), (145, 17602), (148, 17623), (168, 17773),

Gene: Yikes_5 Start: 4801, Stop: 6417, Start Num: 9
Candidate Starts for Yikes_5:
(Start: 9 @4801 has 5 MA's), (14, 4924), (18, 4957), (27, 5038), (31, 5086), (37, 5107), (42, 5128), (49, 5191), (51, 5197), (56, 5224), (61, 5314), (65, 5341), (80, 5437), (87, 5521), (98, 5641), (101, 5680), (110, 5740), (111, 5746), (121, 5851), (123, 5872), (128, 5926), (135, 6016), (159, 6280), (162, 6298), (170, 6361), (178, 6403),