Pham 282658

1: Cafasso_131 + 2
2: ModicumRichard_131
3: Morgana_138
4: MicyPS_107
5: PSonyx_126
6: VanLee_122
7: Colossa_121

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 282658 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282658 has 9 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Cafasso_131, Aleemily_129, ObLaDi_130
• Track 2 : ModicumRichard_131
• Track 3 : Morgana_138
• Track 4 : MicyPS_107
• Track 5 : PSonyx_126
• Track 6 : VanLee_122
• Track 7 : Colossa_121

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

The start number called the most often in the published annotations is 46, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aleemily_129, Cafasso_131, Colossa_121, Morgana_138, ObLaDi_130, VanLee_122,

Genes that have the "Most Annotated" start but do not call it:
• ModicumRichard_131,

Genes that do not have the "Most Annotated" start:
• MicyPS_107, PSonyx_126,

Summary by start number:

Start 34:
• Found in 2 of 9 (22.2%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MicyPS_107 (EQ), PSonyx_126 (EQ),

Start 46:
• Found in 7 of 9 (77.8%) of genes in pham
• Manual Annotations of this start: 5 of 7

• Called 85.7% of time when present
• Phage (with cluster) where this start called: Aleemily_129 (DZ), Cafasso_131 (DZ), Colossa_121 (KA), Morgana_138 (DZ), ObLaDi_130 (DZ), VanLee_122 (KA),

Start 51:
• Found in 5 of 9 (55.6%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: ModicumRichard_131 (DZ),

Summary by clusters:

There are 3 clusters represented in this pham: DZ, KA, EQ,

Info for manual annotations of cluster DZ:
•Start number 46 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster EQ:
•Start number 34 was manually annotated 2 times for cluster EQ.

Info for manual annotations of cluster KA:
•Start number 46 was manually annotated 1 time for cluster KA.

Gene Information:

Gene: Aleemily_129 Start: 68530, Stop: 69045, Start Num: 46
Candidate Starts for Aleemily_129:
(Start: 46 @68530 has 5 MA's), (48, 68542), (51, 68584), (59, 68722), (70, 68824), (73, 68851), (77, 68944),

Gene: Cafasso_131 Start: 69137, Stop: 69652, Start Num: 46
Candidate Starts for Cafasso_131:
(Start: 46 @69137 has 5 MA's), (48, 69149), (51, 69191), (59, 69329), (70, 69431), (73, 69458), (77, 69551),

Gene: Colossa_121 Start: 63743, Stop: 64255, Start Num: 46
Candidate Starts for Colossa_121:
(1, 62063), (2, 62072), (3, 62093), (4, 62432), (5, 62522), (6, 62768), (11, 63092), (12, 63152), (13, 63161), (15, 63233), (16, 63236), (17, 63293), (23, 63446), (24, 63452), (29, 63536), (32, 63554), (35, 63563), (36, 63590), (37, 63596), (39, 63626), (42, 63683), (44, 63713), (Start: 46 @63743 has 5 MA's), (49, 63761), (50, 63794), (56, 63884), (58, 63932), (63, 64007), (67, 64034), (72, 64061), (74, 64085), (77, 64160), (78, 64166), (79, 64238), (80, 64244),

Gene: MicyPS_107 Start: 62948, Stop: 63646, Start Num: 34
Candidate Starts for MicyPS_107:
(7, 62168), (8, 62327), (9, 62345), (10, 62384), (14, 62564), (Start: 34 @62948 has 2 MA's), (38, 63008), (40, 63017), (45, 63101), (47, 63131), (48, 63140), (52, 63197), (53, 63212), (59, 63320), (60, 63329), (62, 63395), (64, 63410), (65, 63413), (66, 63416), (69, 63428), (71, 63449), (73, 63452), (76, 63509), (77, 63545), (81, 63638),

Gene: ModicumRichard_131 Start: 69479, Stop: 69940, Start Num: 51

Candidate Starts for ModicumRichard_131:
(Start: 46 @69425 has 5 MA's), (48, 69437), (51, 69479), (59, 69617), (70, 69719), (73, 69746), (77, 69839),

Gene: Morgana_138 Start: 71604, Stop: 72119, Start Num: 46
Candidate Starts for Morgana_138:
(Start: 46 @71604 has 5 MA's), (48, 71616), (51, 71658), (56, 71742), (59, 71796), (70, 71898), (73, 71925), (77, 72018),

Gene: ObLaDi_130 Start: 68827, Stop: 69342, Start Num: 46
Candidate Starts for ObLaDi_130:
(Start: 46 @68827 has 5 MA's), (48, 68839), (51, 68881), (59, 69019), (70, 69121), (73, 69148), (77, 69241),

Gene: PSonyx_126 Start: 66456, Stop: 67154, Start Num: 34
Candidate Starts for PSonyx_126:
(8, 65835), (9, 65853), (10, 65892), (Start: 34 @66456 has 2 MA's), (41, 66573), (50, 66687), (54, 66738), (55, 66741), (60, 66837), (62, 66903), (64, 66918), (65, 66921), (68, 66933), (69, 66936), (71, 66957), (73, 66960), (75, 66993), (77, 67053),

Gene: VanLee_122 Start: 63556, Stop: 64068, Start Num: 46
Candidate Starts for VanLee_122:
(18, 63154), (19, 63208), (20, 63220), (21, 63238), (22, 63253), (25, 63313), (26, 63328), (27, 63334), (28, 63340), (30, 63361), (31, 63364), (33, 63373), (35, 63376), (36, 63403), (39, 63439), (42, 63496), (43, 63508), (44, 63526), (Start: 46 @63556 has 5 MA's), (50, 63607), (57, 63709), (58, 63745), (61, 63781), (65, 63835), (67, 63847), (74, 63898), (77, 63973), (79, 64051), (80, 64057),