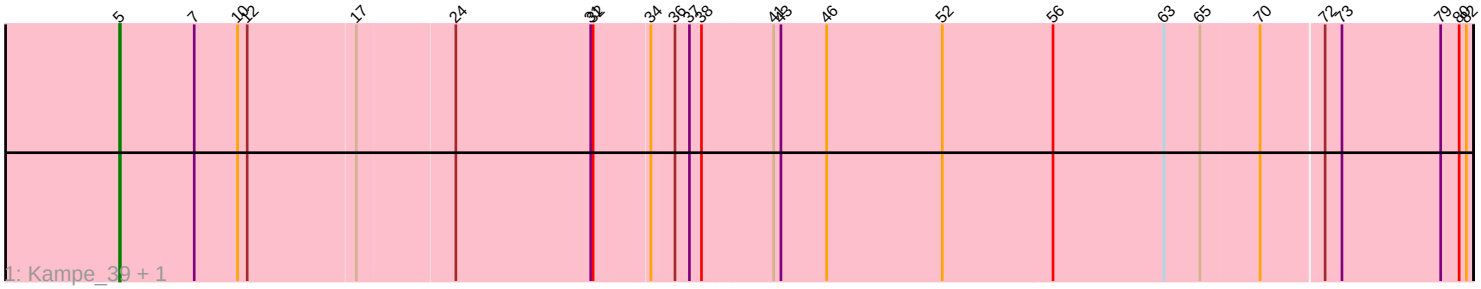
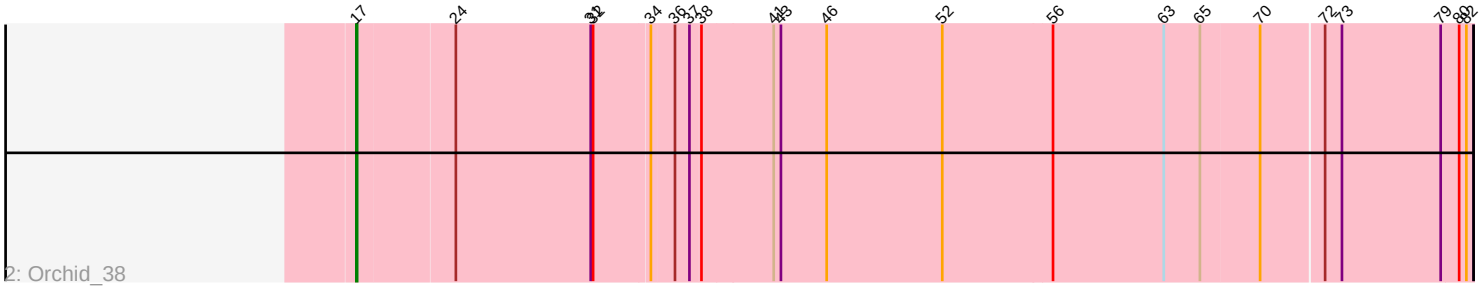
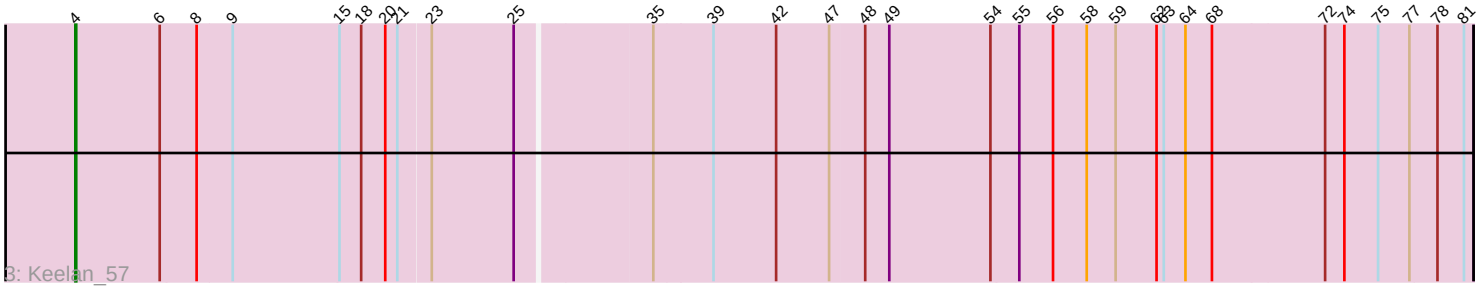
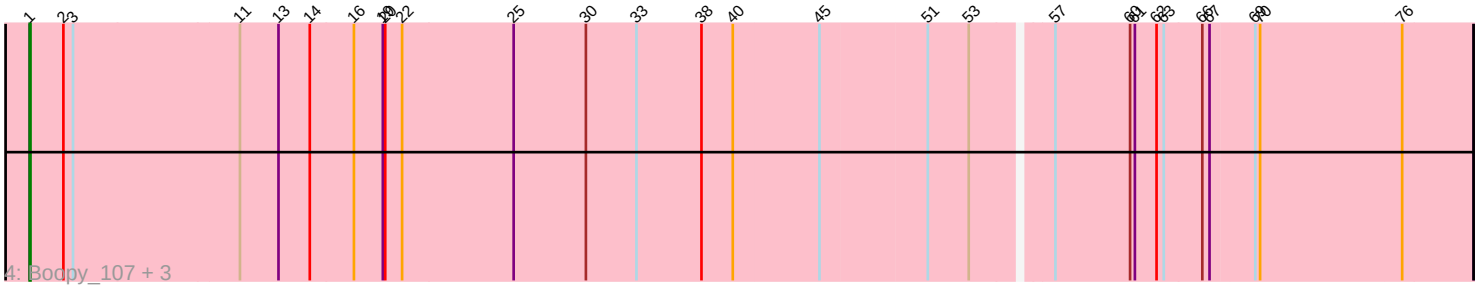
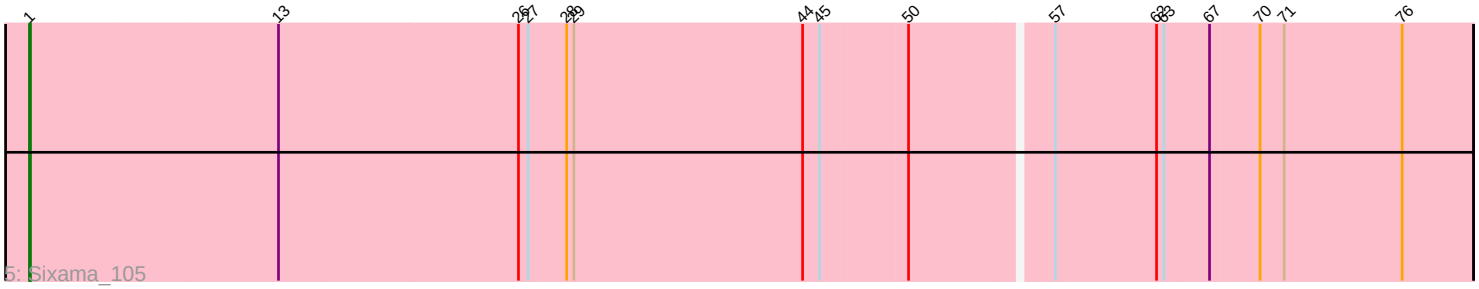
Pham 346421











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 346421 Report

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

Pham number 346421 has 9 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Kampe_39, PatrickStar_39
• Track 2 : Orchid_38
• Track 3 : Keelan_57
• Track 4 : Boopy_107, Mareelih_105, BlueNGold_106, Forza_107
• Track 5 : Sixama_105

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 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BlueNGold_106, Boopy_107, Forza_107, Mareelih_105, Sixama_105,

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

Genes that do not have the "Most Annotated" start:
• Kampe_39, Keelan_57, Orchid_38, PatrickStar_39,

Summary by start number:

Start 1:
• Found in 5 of 9 (55.6%) of genes in pham
• Manual Annotations of this start: 5 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BlueNGold_106 (DS), Boopy_107 (DS), Forza_107 (DS), Mareelih_105 (DS), Sixama_105 (DS),

Start 4:
• Found in 1 of 9 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Keelan_57 (DP),

Start 5:
• Found in 2 of 9 (22.2%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kampe_39 (CX), PatrickStar_39 (CX),

Start 17:
• Found in 3 of 9 (33.3%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Orchid_38 (CX),

Summary by clusters:

There are 3 clusters represented in this pham: CX, DS, DP,

Info for manual annotations of cluster CX:
•Start number 5 was manually annotated 2 times for cluster CX.
•Start number 17 was manually annotated 1 time for cluster CX.

Info for manual annotations of cluster DP:
•Start number 4 was manually annotated 1 time for cluster DP.

Info for manual annotations of cluster DS:
•Start number 1 was manually annotated 5 times for cluster DS.

Gene Information:

Gene: BlueNGold_106 Start: 64939, Stop: 66690, Start Num: 1
Candidate Starts for BlueNGold_106:
(Start: 1 @64939 has 5 MA's), (2, 64981), (3, 64993), (11, 65197), (13, 65245), (14, 65284), (16, 65338), (19, 65374), (20, 65377), (22, 65398), (25, 65536), (30, 65626), (33, 65689), (38, 65770), (40, 65809), (45, 65914), (51, 66043), (53, 66094), (57, 66184), (60, 66277), (61, 66283), (62, 66310), (63, 66319), (66, 66364), (67, 66373), (69, 66424), (70, 66430), (76, 66604),

Gene: Boopy_107 Start: 64951, Stop: 66702, Start Num: 1
Candidate Starts for Boopy_107:
(Start: 1 @64951 has 5 MA's), (2, 64993), (3, 65005), (11, 65209), (13, 65257), (14, 65296), (16, 65350), (19, 65386), (20, 65389), (22, 65410), (25, 65548), (30, 65638), (33, 65701), (38, 65782), (40, 65821), (45, 65926), (51, 66055), (53, 66106), (57, 66196), (60, 66289), (61, 66295), (62, 66322), (63, 66331), (66, 66376), (67, 66385), (69, 66436), (70, 66442), (76, 66616),

Gene: Forza_107 Start: 64867, Stop: 66618, Start Num: 1
Candidate Starts for Forza_107:
(Start: 1 @64867 has 5 MA's), (2, 64909), (3, 64921), (11, 65125), (13, 65173), (14, 65212), (16, 65266), (19, 65302), (20, 65305), (22, 65326), (25, 65464), (30, 65554), (33, 65617), (38, 65698), (40, 65737), (45, 65842), (51, 65971), (53, 66022), (57, 66112), (60, 66205), (61, 66211), (62, 66238), (63, 66247), (66, 66292), (67, 66301), (69, 66352), (70, 66358), (76, 66532),

Gene: Kampe_39 Start: 39173, Stop: 40819, Start Num: 5

Candidate Starts for Kampe_39:
(Start: 5 @39173 has 2 MA's), (7, 39266), (10, 39320), (12, 39332), (Start: 17 @39464 has 1 MA's), (24, 39581), (31, 39749), (32, 39752), (34, 39818), (36, 39845), (37, 39863), (38, 39875), (41, 39962), (43, 39971), (46, 40028), (52, 40172), (56, 40307), (63, 40445), (65, 40490), (70, 40562), (72, 40637), (73, 40658), (79, 40781), (80, 40802), (82, 40811),

Gene: Keelan_57 Start: 32258, Stop: 33958, Start Num: 4
Candidate Starts for Keelan_57:
(Start: 4 @32258 has 1 MA's), (6, 32363), (8, 32408), (9, 32450), (15, 32582), (18, 32609), (20, 32639), (21, 32654), (23, 32690), (25, 32792), (35, 32951), (39, 33023), (42, 33101), (47, 33167), (48, 33209), (49, 33239), (54, 33365), (55, 33398), (56, 33440), (58, 33482), (59, 33518), (62, 33569), (63, 33578), (64, 33605), (68, 33638), (72, 33776), (74, 33800), (75, 33842), (77, 33881), (78, 33914), (81, 33947),

Gene: Mareelih_105 Start: 64369, Stop: 66120, Start Num: 1
Candidate Starts for Mareelih_105:
(Start: 1 @64369 has 5 MA's), (2, 64411), (3, 64423), (11, 64627), (13, 64675), (14, 64714), (16, 64768), (19, 64804), (20, 64807), (22, 64828), (25, 64966), (30, 65056), (33, 65119), (38, 65200), (40, 65239), (45, 65344), (51, 65473), (53, 65524), (57, 65614), (60, 65707), (61, 65713), (62, 65740), (63, 65749), (66, 65794), (67, 65803), (69, 65854), (70, 65860), (76, 66034),

Gene: Orchid_38 Start: 39465, Stop: 40820, Start Num: 17
Candidate Starts for Orchid_38:
(Start: 17 @39465 has 1 MA's), (24, 39582), (31, 39750), (32, 39753), (34, 39819), (36, 39846), (37, 39864), (38, 39876), (41, 39963), (43, 39972), (46, 40029), (52, 40173), (56, 40308), (63, 40446), (65, 40491), (70, 40563), (72, 40638), (73, 40659), (79, 40782), (80, 40803), (82, 40812),

Gene: PatrickStar_39 Start: 39173, Stop: 40819, Start Num: 5
Candidate Starts for PatrickStar_39:
(Start: 5 @39173 has 2 MA's), (7, 39266), (10, 39320), (12, 39332), (Start: 17 @39464 has 1 MA's), (24, 39581), (31, 39749), (32, 39752), (34, 39818), (36, 39845), (37, 39863), (38, 39875), (41, 39962), (43, 39971), (46, 40028), (52, 40172), (56, 40307), (63, 40445), (65, 40490), (70, 40562), (72, 40637), (73, 40658), (79, 40781), (80, 40802), (82, 40811),

Gene: Sixama_105 Start: 64373, Stop: 66124, Start Num: 1
Candidate Starts for Sixama_105:
(Start: 1 @64373 has 5 MA's), (13, 64676), (26, 64973), (27, 64985), (28, 65033), (29, 65042), (44, 65327), (45, 65348), (50, 65453), (57, 65618), (62, 65744), (63, 65753), (67, 65807), (70, 65864), (71, 65894), (76, 66038),