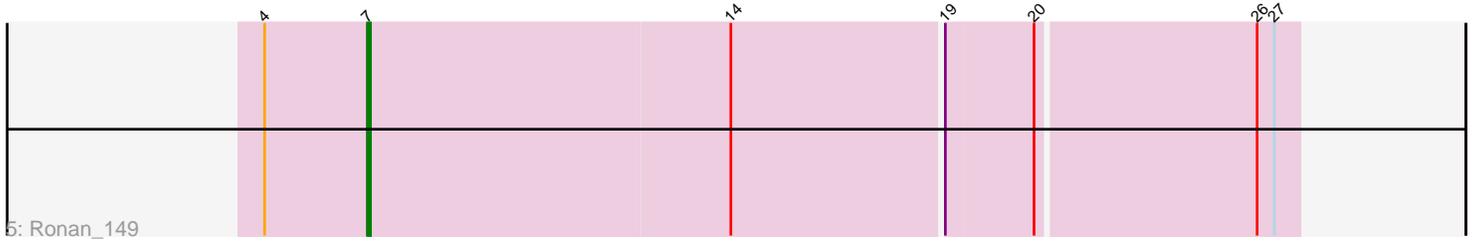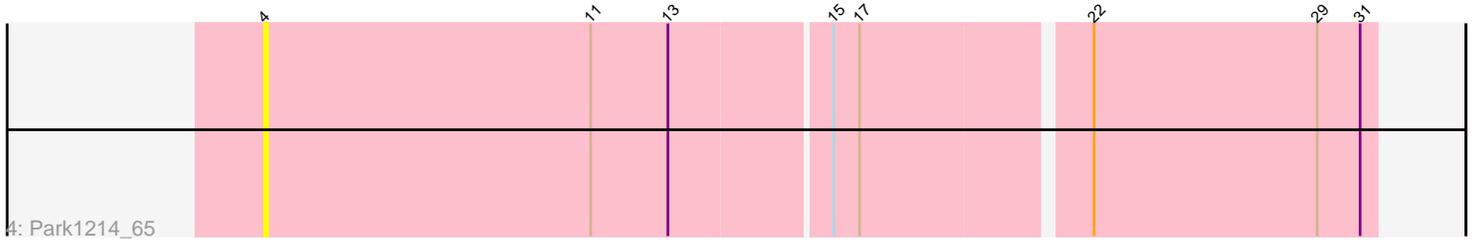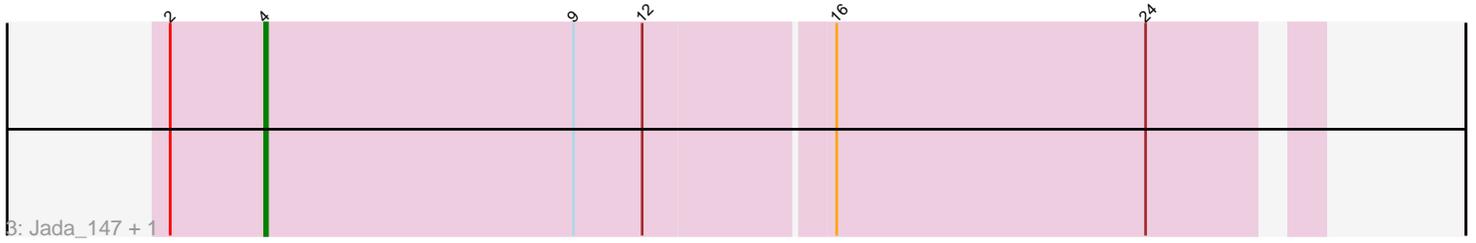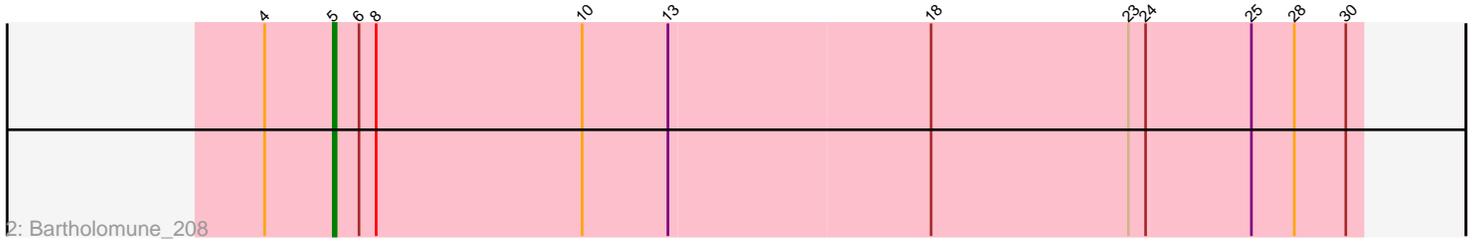# Pham 284304

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 284304 Report

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

Pham number 284304 has 14 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Persimmon_210, Navo_202, WhereRU_207, Braelyn_205, Davielle_208
• Track 2 : Bartholomune_208
• Track 3 : Jada_147, DeluluLabubu_152
• Track 4 : Park1214_65
• Track 5 : Ronan_149
• Track 6 : Lynnae_115, DanBing_116, Kahlid_114, Wilder_114

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

The start number called the most often in the published annotations is 4, it was called in 6 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Braelyn_205, Davielle_208, DeluluLabubu_152, Jada_147, Navo_202, Park1214_65, Persimmon_210, WhereRU_207,

Genes that have the "Most Annotated" start but do not call it:
• Bartholomune_208, Ronan_149,

Genes that do not have the "Most Annotated" start:
• DanBing_116, Kahlid_114, Lynnae_115, Wilder_114,

Summary by start number:

Start 3:
• Found in 4 of 14 (28.6%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DanBing_116 (L2), Kahlid_114 (L2), Lynnae_115 (L2), Wilder_114 (L2),

Start 4:
• Found in 10 of 14 (71.4%) of genes in pham
• Manual Annotations of this start: 6 of 10

• Called 80.0% of time when present
• Phage (with cluster) where this start called: Braelyn_205 (BE1), Davielle_208 (BE1), DeluluLabubu_152 (BK1), Jada_147 (BK1), Navo_202 (BE1), Park1214_65 (BS), Persimmon_210 (BE1), WhereRU_207 (BE1),

Start 5:
• Found in 6 of 14 (42.9%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Bartholomune_208 (BE1),

Start 7:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ronan_149 (C1),

Summary by clusters:

There are 5 clusters represented in this pham: C1, BE1, L2, BK1, BS,

Info for manual annotations of cluster BE1:
•Start number 4 was manually annotated 5 times for cluster BE1.
•Start number 5 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BK1:
•Start number 4 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster C1:
•Start number 7 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster L2:
•Start number 3 was manually annotated 2 times for cluster L2.

Gene Information:
Gene: Bartholomune_208 Start: 105264, Stop: 105620, Start Num: 5
Candidate Starts for Bartholomune_208:
(Start: 4 @105240 has 6 MA's), (Start: 5 @105264 has 1 MA's), (6, 105273), (8, 105279), (10, 105351), (13, 105381), (18, 105471), (23, 105540), (24, 105546), (25, 105582), (28, 105597), (30, 105615),

Gene: Braelyn_205 Start: 104887, Stop: 105267, Start Num: 4
Candidate Starts for Braelyn_205:
(Start: 4 @104887 has 6 MA's), (Start: 5 @104911 has 1 MA's), (6, 104920), (8, 104926), (10, 104998), (13, 105028), (18, 105118), (23, 105187), (24, 105193), (25, 105229), (28, 105244), (30, 105262),

Gene: DanBing_116 Start: 64737, Stop: 65147, Start Num: 3
Candidate Starts for DanBing_116:
(1, 64662), (Start: 3 @64737 has 2 MA's), (21, 65007), (32, 65130),

Gene: Davielle_208 Start: 105285, Stop: 105665, Start Num: 4
Candidate Starts for Davielle_208:
(Start: 4 @105285 has 6 MA's), (Start: 5 @105309 has 1 MA's), (6, 105318), (8, 105324), (10, 105396), (13, 105426), (18, 105516), (23, 105585), (24, 105591), (25, 105627), (28, 105642), (30, 105660),

Gene: DeluluLabubu_152 Start: 83196, Stop: 83549, Start Num: 4
Candidate Starts for DeluluLabubu_152:
(2, 83163), (Start: 4 @83196 has 6 MA's), (9, 83304), (12, 83328), (16, 83391), (24, 83499),

Gene: Jada_147 Start: 81782, Stop: 82135, Start Num: 4
Candidate Starts for Jada_147:
(2, 81749), (Start: 4 @81782 has 6 MA's), (9, 81890), (12, 81914), (16, 81977), (24, 82085),

Gene: Kahlid_114 Start: 64167, Stop: 64577, Start Num: 3
Candidate Starts for Kahlid_114:
(1, 64092), (Start: 3 @64167 has 2 MA's), (21, 64437), (32, 64560),

Gene: Lynnae_115 Start: 63980, Stop: 64390, Start Num: 3
Candidate Starts for Lynnae_115:
(1, 63905), (Start: 3 @63980 has 2 MA's), (21, 64250), (32, 64373),

Gene: Navo_202 Start: 104091, Stop: 104471, Start Num: 4
Candidate Starts for Navo_202:
(Start: 4 @104091 has 6 MA's), (Start: 5 @104115 has 1 MA's), (6, 104124), (8, 104130), (10, 104202), (13, 104232), (18, 104322), (23, 104391), (24, 104397), (25, 104433), (28, 104448), (30, 104466),

Gene: Park1214_65 Start: 20017, Stop: 20394, Start Num: 4
Candidate Starts for Park1214_65:
(Start: 4 @20017 has 6 MA's), (11, 20131), (13, 20158), (15, 20212), (17, 20221), (22, 20296), (29, 20374), (31, 20389),

Gene: Persimmon_210 Start: 105109, Stop: 105489, Start Num: 4
Candidate Starts for Persimmon_210:
(Start: 4 @105109 has 6 MA's), (Start: 5 @105133 has 1 MA's), (6, 105142), (8, 105148), (10, 105220), (13, 105250), (18, 105340), (23, 105409), (24, 105415), (25, 105451), (28, 105466), (30, 105484),

Gene: Ronan_149 Start: 89052, Stop: 89369, Start Num: 7
Candidate Starts for Ronan_149:
(Start: 4 @89016 has 6 MA's), (Start: 7 @89052 has 1 MA's), (14, 89178), (19, 89250), (20, 89280), (26, 89355), (27, 89361),

Gene: WhereRU_207 Start: 105288, Stop: 105668, Start Num: 4
Candidate Starts for WhereRU_207:
(Start: 4 @105288 has 6 MA's), (Start: 5 @105312 has 1 MA's), (6, 105321), (8, 105327), (10, 105399), (13, 105429), (18, 105519), (23, 105588), (24, 105594), (25, 105630), (28, 105645), (30, 105663),

Gene: Wilder_114 Start: 64021, Stop: 64431, Start Num: 3
Candidate Starts for Wilder_114:
(1, 63946), (Start: 3 @64021 has 2 MA's), (21, 64291), (32, 64414),