Pham 291527

1: Eaglepride_55
2: Refuge_55
3: Tomathan_59
4: Duplo_59 + 12
5: Lokk_54 + 1
6: Odin_55
7: Che12_58
8: PhBs_58
9: Miko_54

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 291527 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291527 has 22 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Eaglepride_55
• Track 2 : Refuge_55
• Track 3 : Tomathan_59
• Track 4 : Duplo_59, Travvers_59, AN9_60, VC3_60, D29_55, Pomar16_59, C3_55, Naji_59, D32_58, Kerberos_59, ANI8_60, DBQu4n_59, StarStuff_59
• Track 5 : Lokk_54, Rachaly_56
• Track 6 : Odin_55
• Track 7 : Che12_58
• Track 8 : Ph8s_58
• Track 9 : Miko_54

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

The start number called the most often in the published annotations is 5, it was called in 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AN9_60, ANI8_60, C3_55, Che12_58, D29_55, D32_58, DBQu4n_59, Duplo_59, Eaglepride_55, Kerberos_59, Lokk_54, Miko_54, Naji_59, Odin_55, Ph8s_58, Pomar16_59, Rachaly_56, Refuge_55, StarStuff_59, Tomathan_59, Travvers_59, VC3_60,

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

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

Summary by start number:

Start 5:
• Found in 22 of 22 (100.0%) of genes in pham
• Manual Annotations of this start: 21 of 21
• Called 100.0% of time when present

• Phage (with cluster) where this start called: AN9_60 (A2), ANI8_60 (A2), C3_55 (A2), Che12_58 (A2), D29_55 (A2), D32_58 (A2), DBQu4n_59 (A2), Duplo_59 (A2), Eaglepride_55 (A10), Kerberos_59 (A2), Lokk_54 (A2), Miko_54 (A2), Naji_59 (A2), Odin_55 (A2), Ph8s_58 (A2), Pomar16_59 (A2), Rachaly_56 (A2), Refuge_55 (A12), StarStuff_59 (A2), Tomathan_59 (A2), Travvers_59 (A2), VC3_60 (A2),

Summary by clusters:

There are 3 clusters represented in this pham: A2, A10, A12,

Info for manual annotations of cluster A10:
•Start number 5 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A12:
•Start number 5 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A2:
•Start number 5 was manually annotated 19 times for cluster A2.

Gene Information:

Gene: AN9_60 Start: 38397, Stop: 37942, Start Num: 5
Candidate Starts for AN9_60:
(Start: 5 @38397 has 21 MA's), (9, 38256), (12, 38244), (13, 38235), (18, 38181), (22, 38106), (25, 38085), (27, 38076), (32, 37962),

Gene: ANI8_60 Start: 38397, Stop: 37942, Start Num: 5
Candidate Starts for ANI8_60:
(Start: 5 @38397 has 21 MA's), (9, 38256), (12, 38244), (13, 38235), (18, 38181), (22, 38106), (25, 38085), (27, 38076), (32, 37962),

Gene: C3_55 Start: 38397, Stop: 37942, Start Num: 5
Candidate Starts for C3_55:
(Start: 5 @38397 has 21 MA's), (9, 38256), (12, 38244), (13, 38235), (18, 38181), (22, 38106), (25, 38085), (27, 38076), (32, 37962),

Gene: Che12_58 Start: 37116, Stop: 36628, Start Num: 5
Candidate Starts for Che12_58:
(Start: 5 @37116 has 21 MA's), (8, 36975), (9, 36969), (12, 36957), (16, 36906), (19, 36855), (32, 36654), (34, 36633),

Gene: D29_55 Start: 38000, Stop: 37545, Start Num: 5
Candidate Starts for D29_55:
(Start: 5 @38000 has 21 MA's), (9, 37859), (12, 37847), (13, 37838), (18, 37784), (22, 37709), (25, 37688), (27, 37679), (32, 37565),

Gene: D32_58 Start: 38000, Stop: 37545, Start Num: 5
Candidate Starts for D32_58:
(Start: 5 @38000 has 21 MA's), (9, 37859), (12, 37847), (13, 37838), (18, 37784), (22, 37709), (25, 37688), (27, 37679), (32, 37565),

Gene: DBQu4n_59 Start: 37981, Stop: 37526, Start Num: 5
Candidate Starts for DBQu4n_59:
(Start: 5 @37981 has 21 MA's), (9, 37840), (12, 37828), (13, 37819), (18, 37765), (22, 37690), (25, 37669), (27, 37660), (32, 37546),

Gene: Duplo_59 Start: 38037, Stop: 37582, Start Num: 5
Candidate Starts for Duplo_59:
(Start: 5 @38037 has 21 MA's), (9, 37896), (12, 37884), (13, 37875), (18, 37821), (22, 37746), (25, 37725), (27, 37716), (32, 37602),

Gene: Eaglepride_55 Start: 37480, Stop: 37070, Start Num: 5
Candidate Starts for Eaglepride_55:
(Start: 5 @37480 has 21 MA's), (7, 37381), (9, 37339), (12, 37327), (13, 37318), (31, 37099),

Gene: Kerberos_59 Start: 37999, Stop: 37544, Start Num: 5
Candidate Starts for Kerberos_59:
(Start: 5 @37999 has 21 MA's), (9, 37858), (12, 37846), (13, 37837), (18, 37783), (22, 37708), (25, 37687), (27, 37678), (32, 37564),

Gene: Lokk_54 Start: 37531, Stop: 37127, Start Num: 5
Candidate Starts for Lokk_54:
(3, 37756), (4, 37747), (Start: 5 @37531 has 21 MA's), (9, 37396), (10, 37390), (11, 37387), (12, 37384), (15, 37357), (17, 37330), (20, 37291), (21, 37261), (29, 37192), (30, 37168),

Gene: Miko_54 Start: 38309, Stop: 37905, Start Num: 5
Candidate Starts for Miko_54:
(3, 38534), (4, 38525), (Start: 5 @38309 has 21 MA's), (9, 38174), (10, 38168), (11, 38165), (12, 38162), (15, 38135), (17, 38108), (20, 38069), (21, 38039), (23, 38024), (29, 37970), (30, 37946),

Gene: Naji_59 Start: 38000, Stop: 37545, Start Num: 5
Candidate Starts for Naji_59:
(Start: 5 @38000 has 21 MA's), (9, 37859), (12, 37847), (13, 37838), (18, 37784), (22, 37709), (25, 37688), (27, 37679), (32, 37565),

Gene: Odin_55 Start: 37059, Stop: 36571, Start Num: 5
Candidate Starts for Odin_55:
(Start: 5 @37059 has 21 MA's), (6, 36984), (8, 36921), (9, 36915), (12, 36903), (19, 36801), (26, 36714), (33, 36582),

Gene: Ph8s_58 Start: 37416, Stop: 36925, Start Num: 5
Candidate Starts for Ph8s_58:
(1, 37707), (4, 37632), (Start: 5 @37416 has 21 MA's), (8, 37275), (9, 37269), (12, 37257), (19, 37155), (26, 37068),

Gene: Pomar16_59 Start: 38040, Stop: 37585, Start Num: 5
Candidate Starts for Pomar16_59:
(Start: 5 @38040 has 21 MA's), (9, 37899), (12, 37887), (13, 37878), (18, 37824), (22, 37749), (25, 37728), (27, 37719), (32, 37605),

Gene: Rachaly_56 Start: 38454, Stop: 38050, Start Num: 5
Candidate Starts for Rachaly_56:
(3, 38679), (4, 38670), (Start: 5 @38454 has 21 MA's), (9, 38319), (10, 38313), (11, 38310), (12, 38307), (15, 38280), (17, 38253), (20, 38214), (21, 38184), (29, 38115), (30, 38091),

Gene: Refuge_55 Start: 39270, Stop: 38728, Start Num: 5
Candidate Starts for Refuge_55:
(2, 39543), (3, 39495), (4, 39486), (Start: 5 @39270 has 21 MA's), (7, 39171), (9, 39123), (12, 39111), (14, 39096), (24, 38964), (28, 38913), (35, 38766), (36, 38733),

Gene: StarStuff_59 Start: 38002, Stop: 37547, Start Num: 5
Candidate Starts for StarStuff_59:
(Start: 5 @38002 has 21 MA's), (9, 37861), (12, 37849), (13, 37840), (18, 37786), (22, 37711), (25, 37690), (27, 37681), (32, 37567),

Gene: Tomathan_59 Start: 38049, Stop: 37594, Start Num: 5
Candidate Starts for Tomathan_59:
(Start: 5 @38049 has 21 MA's), (9, 37908), (12, 37896), (13, 37887), (18, 37833), (25, 37737), (27, 37728), (32, 37614),

Gene: Travvers_59 Start: 37999, Stop: 37544, Start Num: 5
Candidate Starts for Travvers_59:
(Start: 5 @37999 has 21 MA's), (9, 37858), (12, 37846), (13, 37837), (18, 37783), (22, 37708), (25, 37687), (27, 37678), (32, 37564),

Gene: VC3_60 Start: 38397, Stop: 37942, Start Num: 5
Candidate Starts for VC3_60:
(Start: 5 @38397 has 21 MA's), (9, 38256), (12, 38244), (13, 38235), (18, 38181), (22, 38106), (25, 38085), (27, 38076), (32, 37962),