Pham 87778

4 6 7 8 9 10 14 15 16 18 19 20 21 22 23
1: Cborch11_42 + 2
4 6 7 9 10 14 15 16 18 19 20 21 22 23
2: Puissant_42
4 6 7 9 10 15 16 18 19 20 22 23
3: Megatron06_44 + 3
1 2 3 4 7 11 12 13 15 16 17 18 19 20 21 22 23
4: Predator_42
4 5 6 7 8 9 10 14 15 16 18 19 20 22 23
5: Phreeze_40

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 87778 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87778 has 10 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Cborch11_42, Oaker_40, Thumb_41
• Track 2 : Puissant_42
• Track 3 : Megatron06_44, Beckerton_40, Konstantine_45, Damien_41
• Track 4 : Predator_42
• Track 5 : Phreeze_40

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 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beckerton_40, Cborch11_42, Damien_41, Konstantine_45, Megatron06_44, Oaker_40, Phreeze_40, Puissant_42, Thumb_41,

Genes that have the "Most Annotated" start but do not call it:
• Predator_42,

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

Summary by start number:

Start 1:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Predator_42 (H1),

Start 4:
• Found in 10 of 10 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 8
• Called 90.0% of time when present

• Phage (with cluster) where this start called: Beckerton_40 (H1), Cborch11_42 (H1), Damien_41 (H1), Konstantine_45 (H1), Megatron06_44 (H1), Oaker_40 (H1), Phreeze_40 (H1), Puissant_42 (H1), Thumb_41 (H1),

Summary by clusters:

There is one cluster represented in this pham: H1

Info for manual annotations of cluster H1:
•Start number 1 was manually annotated 1 time for cluster H1.
•Start number 4 was manually annotated 7 times for cluster H1.

Gene Information:

Gene: Beckerton_40 Start: 37541, Stop: 38173, Start Num: 4
Candidate Starts for Beckerton_40:
(Start: 4 @37541 has 7 MA's), (6, 37628), (7, 37637), (9, 37670), (10, 37715), (15, 37907), (16, 37916), (18, 37970), (19, 38009), (20, 38039), (22, 38135), (23, 38159),

Gene: Cborch11_42 Start: 37008, Stop: 37640, Start Num: 4
Candidate Starts for Cborch11_42:
(Start: 4 @37008 has 7 MA's), (6, 37095), (7, 37104), (8, 37116), (9, 37137), (10, 37182), (14, 37296), (15, 37374), (16, 37383), (18, 37437), (19, 37476), (20, 37506), (21, 37554), (22, 37602), (23, 37626),

Gene: Damien_41 Start: 37011, Stop: 37643, Start Num: 4
Candidate Starts for Damien_41:
(Start: 4 @37011 has 7 MA's), (6, 37098), (7, 37107), (9, 37140), (10, 37185), (15, 37377), (16, 37386), (18, 37440), (19, 37479), (20, 37509), (22, 37605), (23, 37629),

Gene: Konstantine_45 Start: 38208, Stop: 38840, Start Num: 4
Candidate Starts for Konstantine_45:
(Start: 4 @38208 has 7 MA's), (6, 38295), (7, 38304), (9, 38337), (10, 38382), (15, 38574), (16, 38583), (18, 38637), (19, 38676), (20, 38706), (22, 38802), (23, 38826),

Gene: Megatron06_44 Start: 37540, Stop: 38172, Start Num: 4
Candidate Starts for Megatron06_44:
(Start: 4 @37540 has 7 MA's), (6, 37627), (7, 37636), (9, 37669), (10, 37714), (15, 37906), (16, 37915), (18, 37969), (19, 38008), (20, 38038), (22, 38134), (23, 38158),

Gene: Oaker_40 Start: 37263, Stop: 37895, Start Num: 4
Candidate Starts for Oaker_40:
(Start: 4 @37263 has 7 MA's), (6, 37350), (7, 37359), (8, 37371), (9, 37392), (10, 37437), (14, 37551), (15, 37629), (16, 37638), (18, 37692), (19, 37731), (20, 37761), (21, 37809), (22, 37857), (23, 37881),

Gene: Phreeze_40 Start: 37066, Stop: 37698, Start Num: 4
Candidate Starts for Phreeze_40:
(Start: 4 @37066 has 7 MA's), (5, 37120), (6, 37153), (7, 37162), (8, 37174), (9, 37195), (10, 37240), (14, 37354), (15, 37432), (16, 37441), (18, 37495), (19, 37534), (20, 37564), (22, 37660), (23, 37684),

Gene: Predator_42 Start: 35912, Stop: 36811, Start Num: 1
Candidate Starts for Predator_42:

(Start: 1 @35912 has 1 MA's), (2, 35954), (3, 35987), (Start: 4 @36068 has 7 MA's), (7, 36161), (11, 36269), (12, 36341), (13, 36452), (15, 36545), (16, 36554), (17, 36587), (18, 36608), (19, 36647), (20, 36677), (21, 36725), (22, 36773), (23, 36797),

Gene: Puissant_42 Start: 37458, Stop: 38090, Start Num: 4
Candidate Starts for Puissant_42:
(Start: 4 @37458 has 7 MA's), (6, 37545), (7, 37554), (9, 37587), (10, 37632), (14, 37746), (15, 37824), (16, 37833), (18, 37887), (19, 37926), (20, 37956), (21, 38004), (22, 38052), (23, 38076),

Gene: Thumb_41 Start: 37003, Stop: 37635, Start Num: 4
Candidate Starts for Thumb_41:
(Start: 4 @37003 has 7 MA's), (6, 37090), (7, 37099), (8, 37111), (9, 37132), (10, 37177), (14, 37291), (15, 37369), (16, 37378), (18, 37432), (19, 37471), (20, 37501), (21, 37549), (22, 37597), (23, 37621),