Pham 153769


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 153769 Report

This analysis was run 03/30/24 on database version 556.
Pham number 153769 has 9 members, 0 are drafts.
Phages represented in each track:

- Track 1 : Courthouse_179, Ariel_183, MiaZeal_185, KashFlow_179,

Superphikiman_180

- Track 2 : Hanñaconda 174
- Track 3 : Lucky2013_178
- Track 4 : Bobby_166
- Track 5 : Porcelāin_182


## 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 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_183, Courthouse_179, KashFlow_179, Lucky2013_178, MiaZeal_185, Porcelain_182, Superphikiman_180,

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

- Hannaconda_174,

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

- Bobby_166,


## Summary by start number:

Start 1:

- Found in 8 of 9 ( 88.9\%) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called $87.5 \%$ of time when present
- Phage (with cluster) where this start called: Ariel_183 (J), Courthouse_179 (J),

KashFlow_179 (J), Lucky2013_178 (J), MiaZeal_185 (J), Porcelain_182 (J),
Superphikiman_180 (J),
Start 4:

- Found in 8 of 9 ( 88.9\%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called $12.5 \%$ of time when present
- Phage (with cluster) where this start called: Hannaconda_174 (J),

Start 10:

- 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: Bobby_166 (J),


## Summary by clusters:

There is one cluster represented in this pham: J
Info for manual annotations of cluster J:

- Start number 1 was manually annotated 7 times for cluster J.
- Start number 4 was manually annotated 1 time for cluster J.
-Start number 10 was manually annotated 1 time for cluster J.


## Gene Information:

Gene: Ariel_183 Start: 89861, Stop: 90265, Start Num: 1
Candidate Starts for Ariel_183:
(Start: 1 @89861 has 7 MA's), (Start: 4 @89882 has 1 MA's), (8, 89927), (11, 89954), (12, 89984), (16, 90104), (17, 90146), (18, 90164), (19, 90194), (20, 90215), (21, 90218),

Gene: Bobby_166 Start: 93015, Stop: 93335, Start Num: 10
Candidate Starts for Bobby_166:
(2, 92946), (3, 92952), (5, 92955), (6, 92979), (Start: 10 @93015 has 1 MA's), (13, 93111), (14,
93117), (15, 93123), (16, 93174), (17, 93216),

Gene: Courthouse_179 Start: 90305, Stop: 90709, Start Num: 1
Candidate Starts for Courthouse_179:
(Start: 1 @90305 has 7 MA's), (Start: 4 @90326 has 1 MA's), (8, 90371), (11, 90398), (12, 90428), $(16,90548),(17,90590),(18,90608),(19,90638),(20,90659),(21,90662)$,

Gene: Hannaconda_174 Start: 92817, Stop: 93200, Start Num: 4
Candidate Starts for Hannaconda_174:
(Start: 1 @92796 has 7 MA's), (Start: 4 @92817 has 1 MA's), (8, 92862), (11, 92889), (12, 92919),
(16, 93039), (17, 93081), (18, 93099), (19, 93129), (20, 93150), (21, 93153),
Gene: KashFlow_179 Start: 92609, Stop: 93013, Start Num: 1
Candidate Starts for KashFlow_179:
(Start: 1 @92609 has 7 MA's), (Start: 4 @92630 has 1 MA's), (8, 92675), (11, 92702), (12, 92732), (16, 92852), (17, 92894), (18, 92912), (19, 92942), (20, 92963), (21, 92966),

Gene: Lucky2013_178 Start: 89376, Stop: 89780, Start Num: 1
Candidate Starts for Lucky2013_178:
(Start: 1 @89376 has 7 MA's), (Start: 4 @89397 has 1 MA's), (7, 89424), (8, 89442), (11, 89469), (12, 89499), (16, 89619), (17, 89661), (18, 89679), (19, 89709), (20, 89730), (21, 89733),

Gene: MiaZeal_185 Start: 90523, Stop: 90927, Start Num: 1
Candidate Starts for MiaZeal_185:
(Start: 1 @90523 has 7 MA's), (Start: 4 @90544 has 1 MA's), (8, 90589), (11, 90616), (12, 90646), $(16,90766),(17,90808),(18,90826),(19,90856),(20,90877),(21,90880)$,

Gene: Porcelain_182 Start: 90322, Stop: 90726, Start Num: 1 Candidate Starts for Porcelain_182:
(Start: 1 @90322 has 7 MA's), (Start: 4 @90343 has 1 MA's), (7, 90370), (8, 90388), (9, 90394), (11, 90415), (12, 90445), (16, 90565), (17, 90607), (18, 90625), (19, 90655), (20, 90676), (21, 90679),

Gene: Superphikiman_180 Start: 90001, Stop: 90405, Start Num: 1
Candidate Starts for Superphikiman_180:
(Start: 1 @90001 has 7 MA's), (Start: 4 @90022 has 1 MA's), (8, 90067), (11, 90094), (12, 90124), (16, 90244), (17, 90286), (18, 90304), (19, 90334), (20, 90355), (21, 90358),

