

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 225044 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225044 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : UmaThurman_42, Pipp_45
- Track 2 : Lton_44
- Track 3 : Pepperoni_41
- Track 4 : Denise_44
- Track 5 : Moosehead_47
- Track 6 : Faith5x5_40
- Track 7 : OneDirection_41, Morkie_46
- Track 8 : Lucky10_45
- Track 9 : PhorbesPhlower_46
- Track 10 : Gudmit_39

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 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Faith5x5_40, Lucky10_45, Moosehead_47, Morkie_46, OneDirection_41, Pepperoni_41, PhorbesPhlower_46,

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

- Denise_44, Lton_44,

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

- Gudmit_39, Pipp_45, UmaThurman_42,

Summary by start number:

Start 3:

- Found in 2 of 12 (16.7%) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pipp_45 (CV), UmaThurman_42 (CV),

Start 4:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gudmit_39 (singleton),

Start 5:

- Found in 9 of 12 (75.0%) of genes in pham
- Manual Annotations of this start: 6 of 11
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Faith5x5_40 (CZ6), Lucky10_45 (DH), Moosehead_47 (CZ6), Morkie_46 (DH), OneDirection_41 (CZ6), Pepperoni_41 (CZ), PhorbesPhlower_46 (DH),

Start 6:

- Found in 4 of 12 (33.3%) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Denise_44 (CZ5), Lton_44 (CZ),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, DH, CZ6, CZ5, CZ, CV,

Info for manual annotations of cluster CV:

- Start number 3 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CZ:

- Start number 6 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ5:

- Start number 6 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 5 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster DH:

- Start number 5 was manually annotated 3 times for cluster DH.

Gene Information:

Gene: Denise_44 Start: 32315, Stop: 32467, Start Num: 6

Candidate Starts for Denise_44:

(Start: 5 @32312 has 6 MA's), (Start: 6 @32315 has 2 MA's), (7, 32333), (8, 32339), (9, 32348), (11, 32357), (12, 32369), (17, 32420), (18, 32423), (19, 32426), (20, 32444),

Gene: Faith5x5_40 Start: 29956, Stop: 30108, Start Num: 5

Candidate Starts for Faith5x5_40:

(1, 29782), (2, 29806), (Start: 5 @29956 has 6 MA's), (7, 29974), (9, 29989), (10, 29995), (11, 29998), (16, 30028), (17, 30061), (18, 30064), (19, 30067),

Gene: Gudmit_39 Start: 27962, Stop: 28129, Start Num: 4
Candidate Starts for Gudmit_39:
(Start: 4 @27962 has 1 MA's), (11, 28019), (13, 28037), (21, 28118),

Gene: Lton_44 Start: 29999, Stop: 30151, Start Num: 6
Candidate Starts for Lton_44:
(Start: 5 @29996 has 6 MA's), (Start: 6 @29999 has 2 MA's), (8, 30023), (9, 30032), (12, 30053), (16, 30071), (17, 30104), (18, 30107), (19, 30110), (20, 30128),

Gene: Lucky10_45 Start: 32714, Stop: 32869, Start Num: 5
Candidate Starts for Lucky10_45:
(Start: 5 @32714 has 6 MA's), (Start: 6 @32717 has 2 MA's), (7, 32735), (8, 32741), (9, 32750), (10, 32756), (11, 32759), (12, 32771), (16, 32789), (17, 32822), (18, 32825), (19, 32828), (20, 32846),

Gene: Moosehead_47 Start: 30929, Stop: 31081, Start Num: 5
Candidate Starts for Moosehead_47:
(Start: 5 @30929 has 6 MA's), (7, 30947), (8, 30953), (9, 30962), (10, 30968), (11, 30971), (16, 31001), (17, 31034), (18, 31037), (19, 31040),

Gene: Morkie_46 Start: 31833, Stop: 31985, Start Num: 5
Candidate Starts for Morkie_46:
(1, 31659), (2, 31683), (Start: 5 @31833 has 6 MA's), (9, 31866), (10, 31872), (11, 31875), (12, 31887), (16, 31905), (17, 31938), (18, 31941), (19, 31944), (20, 31962),

Gene: OneDirection_41 Start: 29447, Stop: 29599, Start Num: 5
Candidate Starts for OneDirection_41:
(1, 29273), (2, 29297), (Start: 5 @29447 has 6 MA's), (9, 29480), (10, 29486), (11, 29489), (12, 29501), (16, 29519), (17, 29552), (18, 29555), (19, 29558), (20, 29576),

Gene: Pepperoni_41 Start: 31009, Stop: 31164, Start Num: 5
Candidate Starts for Pepperoni_41:
(1, 30835), (2, 30859), (Start: 5 @31009 has 6 MA's), (Start: 6 @31012 has 2 MA's), (7, 31030), (8, 31036), (9, 31045), (12, 31066), (13, 31072), (16, 31084), (17, 31117), (18, 31120), (19, 31123),

Gene: PhorbesPhlower_46 Start: 31203, Stop: 31355, Start Num: 5
Candidate Starts for PhorbesPhlower_46:
(1, 31026), (2, 31050), (Start: 5 @31203 has 6 MA's), (9, 31236), (12, 31257), (13, 31263), (16, 31275), (17, 31308), (18, 31311), (19, 31314), (20, 31332),

Gene: Pipp_45 Start: 33774, Stop: 33941, Start Num: 3
Candidate Starts for Pipp_45:
(Start: 3 @33774 has 2 MA's), (14, 33861), (15, 33864), (21, 33933),

Gene: UmaThurman_42 Start: 34120, Stop: 34287, Start Num: 3
Candidate Starts for UmaThurman_42:
(Start: 3 @34120 has 2 MA's), (14, 34207), (15, 34210), (21, 34279),