



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 182712 Report

This analysis was run 11/02/24 on database version 579.

Pham number 182712 has 13 members, 0 are drafts.

Phages represented in each track:

- Track 1 : BigMau\_63, U2\_59, Juniormint\_56, Pacc40\_72, Ichabod\_65, HermioneGrange\_63, PinkPlastic\_61, Madiba\_83, MPlant7149\_61
- Track 2 : Cornucopia\_80, VRedHorse\_79
- Track 3 : Job42\_80
- Track 4 : Hades\_79

### ***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 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigMau\_63, Cornucopia\_80, Hades\_79, HermioneGrange\_63, Ichabod\_65, Job42\_80, Juniormint\_56, MPlant7149\_61, Madiba\_83, Pacc40\_72, PinkPlastic\_61, U2\_59, VRedHorse\_79,

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 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigMau\_63 (A1), Cornucopia\_80 (F1), Hades\_79 (F1), HermioneGrange\_63 (A1), Ichabod\_65 (A1), Job42\_80 (F1), Juniormint\_56 (P1), MPlant7149\_61 (A1), Madiba\_83 (F1), Pacc40\_72 (F1), PinkPlastic\_61 (A1), U2\_59 (A1), VRedHorse\_79 (F1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: A1, F1, P1,

Info for manual annotations of cluster A1:

•Start number 5 was manually annotated 6 times for cluster A1.

Info for manual annotations of cluster F1:

•Start number 5 was manually annotated 6 times for cluster F1.

Info for manual annotations of cluster P1:

•Start number 5 was manually annotated 1 time for cluster P1.

### **Gene Information:**

Gene: BigMau\_63 Start: 41412, Stop: 41104, Start Num: 5

Candidate Starts for BigMau\_63:

(Start: 5 @41412 has 13 MA's), (6, 41334), (8, 41292), (9, 41283), (10, 41277), (14, 41247), (15, 41235), (17, 41178),

Gene: Cornucopia\_80 Start: 47245, Stop: 47553, Start Num: 5

Candidate Starts for Cornucopia\_80:

(1, 47071), (2, 47086), (3, 47095), (4, 47125), (Start: 5 @47245 has 13 MA's), (6, 47323), (8, 47365), (9, 47374), (10, 47380), (14, 47410), (15, 47422), (17, 47479),

Gene: Hades\_79 Start: 46591, Stop: 46899, Start Num: 5

Candidate Starts for Hades\_79:

(1, 46417), (2, 46432), (3, 46441), (4, 46471), (Start: 5 @46591 has 13 MA's), (6, 46669), (8, 46711), (9, 46720), (10, 46726), (14, 46756), (15, 46768), (16, 46807), (17, 46825),

Gene: HermioneGrange\_63 Start: 41906, Stop: 41598, Start Num: 5

Candidate Starts for HermioneGrange\_63:

(Start: 5 @41906 has 13 MA's), (6, 41828), (8, 41786), (9, 41777), (10, 41771), (14, 41741), (15, 41729), (17, 41672),

Gene: Ichabod\_65 Start: 42033, Stop: 41725, Start Num: 5

Candidate Starts for Ichabod\_65:

(Start: 5 @42033 has 13 MA's), (6, 41955), (8, 41913), (9, 41904), (10, 41898), (14, 41868), (15, 41856), (17, 41799),

Gene: Job42\_80 Start: 51187, Stop: 51525, Start Num: 5

Candidate Starts for Job42\_80:

(2, 51028), (3, 51037), (4, 51067), (Start: 5 @51187 has 13 MA's), (6, 51265), (7, 51304), (11, 51349), (12, 51355), (13, 51373), (17, 51451),

Gene: Juniormint\_56 Start: 37481, Stop: 37798, Start Num: 5

Candidate Starts for Juniormint\_56:

(Start: 5 @37481 has 13 MA's), (6, 37559), (8, 37601), (9, 37610), (10, 37616), (14, 37646), (15, 37658), (17, 37715),

Gene: MPlant7149\_61 Start: 39794, Stop: 39486, Start Num: 5

Candidate Starts for MPlant7149\_61:

(Start: 5 @39794 has 13 MA's), (6, 39716), (8, 39674), (9, 39665), (10, 39659), (14, 39629), (15, 39617), (17, 39560),

Gene: Madiba\_83 Start: 49691, Stop: 49999, Start Num: 5

Candidate Starts for Madiba\_83:

(Start: 5 @49691 has 13 MA's), (6, 49769), (8, 49811), (9, 49820), (10, 49826), (14, 49856), (15, 49868), (17, 49925),

Gene: Pacc40\_72 Start: 48264, Stop: 48572, Start Num: 5

Candidate Starts for Pacc40\_72:

(Start: 5 @48264 has 13 MA's), (6, 48342), (8, 48384), (9, 48393), (10, 48399), (14, 48429), (15, 48441), (17, 48498),

Gene: PinkPlastic\_61 Start: 40826, Stop: 40518, Start Num: 5

Candidate Starts for PinkPlastic\_61:

(Start: 5 @40826 has 13 MA's), (6, 40748), (8, 40706), (9, 40697), (10, 40691), (14, 40661), (15, 40649), (17, 40592),

Gene: U2\_59 Start: 41499, Stop: 41191, Start Num: 5

Candidate Starts for U2\_59:

(Start: 5 @41499 has 13 MA's), (6, 41421), (8, 41379), (9, 41370), (10, 41364), (14, 41334), (15, 41322), (17, 41265),

Gene: VRedHorse\_79 Start: 46063, Stop: 46371, Start Num: 5

Candidate Starts for VRedHorse\_79:

(1, 45889), (2, 45904), (3, 45913), (4, 45943), (Start: 5 @46063 has 13 MA's), (6, 46141), (8, 46183), (9, 46192), (10, 46198), (14, 46228), (15, 46240), (17, 46297),