



1: DrDrey\_63 + 26



2: Tomaszewski\_58 + 12

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 207010 Report

This analysis was run 02/22/25 on database version 588.

Pham number 207010 has 40 members, 2 are drafts.

Phages represented in each track:

- Track 1 : DrDrey\_63, MPhalcon\_64, Icee\_64, Elph10\_63, HufflyPuff\_66, Phaux\_65, Buck\_64, Rimmer\_64, Cactus\_66, Murica\_66, Murphy\_64, Bench\_66, Nala\_65, PhatBacter\_67, Phrux\_60, FireRed\_67, RiverMonster\_63, Policronamos\_66, Lilac\_65, Terminus\_66, Lilizi\_64, Hopey\_63, Youngblood\_66, Cjw1\_63, Misfit\_64, MISSy\_64, Bruin\_60
- Track 2 : Tomaszewski\_58, Amao\_63, Highbury\_63, Contagion\_59, Mosby\_59, Saints25\_63, Czyszczonek\_64, Marshmallow\_61, StormChicken\_65, Nimrod\_64, Sotrice96\_64, xkcd\_66, Maxxinista\_65

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

The start number called the most often in the published annotations is 2, it was called in 27 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bench\_66, Bruin\_60, Buck\_64, Cactus\_66, Cjw1\_63, DrDrey\_63, Elph10\_63, FireRed\_67, Hopey\_63, HufflyPuff\_66, Icee\_64, Lilac\_65, Lilizi\_64, MISSy\_64, MPhalcon\_64, Misfit\_64, Murica\_66, Murphy\_64, Nala\_65, PhatBacter\_67, Phaux\_65, Phrux\_60, Policronamos\_66, Rimmer\_64, RiverMonster\_63, Terminus\_66, Youngblood\_66,

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

- Amao\_63, Contagion\_59, Czyszczonek\_64, Highbury\_63, Marshmallow\_61, Maxxinista\_65, Mosby\_59, Nimrod\_64, Saints25\_63, Sotrice96\_64, StormChicken\_65, Tomaszewski\_58, xkcd\_66,

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

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### **Summary by start number:**

Start 1:

- Found in 40 of 40 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 38

- Called 32.5% of time when present
- Phage (with cluster) where this start called: Amao\_63 (E), Contagion\_59 (E), Czyszczone1\_64 (E), Highbury\_63 (E), Marshmallow\_61 (E), Maxxinista\_65 (E), Mosby\_59 (E), Nimrod\_64 (E), Saints25\_63 (E), Sotrice96\_64 (E), StormChicken\_65 (E), Tomaszewski\_58 (E), xkcd\_66 (E),

Start 2:

- Found in 40 of 40 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 27 of 38
- Called 67.5% of time when present
- Phage (with cluster) where this start called: Bench\_66 (E), Bruin\_60 (E), Buck\_64 (E), Cactus\_66 (E), Cjw1\_63 (E), DrDrey\_63 (E), Elph10\_63 (E), FireRed\_67 (E), Hopey\_63 (E), HufflyPuff\_66 (E), Icee\_64 (E), Lilac\_65 (E), Lilizi\_64 (E), MISSy\_64 (E), MPhalcon\_64 (E), Misfit\_64 (E), Murica\_66 (E), Murphy\_64 (E), Nala\_65 (E), PhatBacter\_67 (E), Phaux\_65 (E), Phrux\_60 (E), Policronamos\_66 (E), Rimmer\_64 (E), RiverMonster\_63 (E), Terminus\_66 (E), Youngblood\_66 (E),

### Summary by clusters:

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

- Start number 1 was manually annotated 11 times for cluster E.
- Start number 2 was manually annotated 27 times for cluster E.

### Gene Information:

Gene: Amao\_63 Start: 42634, Stop: 42945, Start Num: 1

Candidate Starts for Amao\_63:

(Start: 1 @42634 has 11 MA's), (Start: 2 @42712 has 27 MA's),

Gene: Bench\_66 Start: 42937, Stop: 43236, Start Num: 2

Candidate Starts for Bench\_66:

(Start: 1 @42859 has 11 MA's), (Start: 2 @42937 has 27 MA's),

Gene: Bruin\_60 Start: 41846, Stop: 42145, Start Num: 2

Candidate Starts for Bruin\_60:

(Start: 1 @41768 has 11 MA's), (Start: 2 @41846 has 27 MA's),

Gene: Buck\_64 Start: 43553, Stop: 43852, Start Num: 2

Candidate Starts for Buck\_64:

(Start: 1 @43475 has 11 MA's), (Start: 2 @43553 has 27 MA's),

Gene: Cactus\_66 Start: 42326, Stop: 42625, Start Num: 2

Candidate Starts for Cactus\_66:

(Start: 1 @42248 has 11 MA's), (Start: 2 @42326 has 27 MA's),

Gene: Cjw1\_63 Start: 44027, Stop: 44326, Start Num: 2

Candidate Starts for Cjw1\_63:

(Start: 1 @43949 has 11 MA's), (Start: 2 @44027 has 27 MA's),

Gene: Contagion\_59 Start: 42049, Stop: 42426, Start Num: 1  
Candidate Starts for Contagion\_59:  
(Start: 1 @42049 has 11 MA's), (Start: 2 @42127 has 27 MA's),

Gene: Czyszczone1\_64 Start: 42758, Stop: 43135, Start Num: 1  
Candidate Starts for Czyszczone1\_64:  
(Start: 1 @42758 has 11 MA's), (Start: 2 @42836 has 27 MA's),

Gene: DrDrey\_63 Start: 43755, Stop: 44054, Start Num: 2  
Candidate Starts for DrDrey\_63:  
(Start: 1 @43677 has 11 MA's), (Start: 2 @43755 has 27 MA's),

Gene: Elph10\_63 Start: 42334, Stop: 42633, Start Num: 2  
Candidate Starts for Elph10\_63:  
(Start: 1 @42256 has 11 MA's), (Start: 2 @42334 has 27 MA's),

Gene: FireRed\_67 Start: 43823, Stop: 44122, Start Num: 2  
Candidate Starts for FireRed\_67:  
(Start: 1 @43745 has 11 MA's), (Start: 2 @43823 has 27 MA's),

Gene: Highbury\_63 Start: 42620, Stop: 42931, Start Num: 1  
Candidate Starts for Highbury\_63:  
(Start: 1 @42620 has 11 MA's), (Start: 2 @42698 has 27 MA's),

Gene: Hokey\_63 Start: 42949, Stop: 43248, Start Num: 2  
Candidate Starts for Hokey\_63:  
(Start: 1 @42871 has 11 MA's), (Start: 2 @42949 has 27 MA's),

Gene: HufflyPuff\_66 Start: 43779, Stop: 44078, Start Num: 2  
Candidate Starts for HufflyPuff\_66:  
(Start: 1 @43701 has 11 MA's), (Start: 2 @43779 has 27 MA's),

Gene: Icee\_64 Start: 42773, Stop: 43072, Start Num: 2  
Candidate Starts for Icee\_64:  
(Start: 1 @42695 has 11 MA's), (Start: 2 @42773 has 27 MA's),

Gene: Lilac\_65 Start: 42734, Stop: 43033, Start Num: 2  
Candidate Starts for Lilac\_65:  
(Start: 1 @42656 has 11 MA's), (Start: 2 @42734 has 27 MA's),

Gene: Lilizi\_64 Start: 42408, Stop: 42707, Start Num: 2  
Candidate Starts for Lilizi\_64:  
(Start: 1 @42330 has 11 MA's), (Start: 2 @42408 has 27 MA's),

Gene: MISSy\_64 Start: 42832, Stop: 43131, Start Num: 2  
Candidate Starts for MISSy\_64:  
(Start: 1 @42754 has 11 MA's), (Start: 2 @42832 has 27 MA's),

Gene: MPhalcon\_64 Start: 42825, Stop: 43124, Start Num: 2  
Candidate Starts for MPhalcon\_64:  
(Start: 1 @42747 has 11 MA's), (Start: 2 @42825 has 27 MA's),

Gene: Marshmallow\_61 Start: 43522, Stop: 43833, Start Num: 1

Candidate Starts for Marshmallow\_61:  
(Start: 1 @43522 has 11 MA's), (Start: 2 @43600 has 27 MA's),

Gene: Maxxinista\_65 Start: 42626, Stop: 43003, Start Num: 1  
Candidate Starts for Maxxinista\_65:  
(Start: 1 @42626 has 11 MA's), (Start: 2 @42704 has 27 MA's),

Gene: Misfit\_64 Start: 43844, Stop: 44143, Start Num: 2  
Candidate Starts for Misfit\_64:  
(Start: 1 @43766 has 11 MA's), (Start: 2 @43844 has 27 MA's),

Gene: Mosby\_59 Start: 42049, Stop: 42426, Start Num: 1  
Candidate Starts for Mosby\_59:  
(Start: 1 @42049 has 11 MA's), (Start: 2 @42127 has 27 MA's),

Gene: Murica\_66 Start: 43779, Stop: 44078, Start Num: 2  
Candidate Starts for Murica\_66:  
(Start: 1 @43701 has 11 MA's), (Start: 2 @43779 has 27 MA's),

Gene: Murphy\_64 Start: 43216, Stop: 43515, Start Num: 2  
Candidate Starts for Murphy\_64:  
(Start: 1 @43138 has 11 MA's), (Start: 2 @43216 has 27 MA's),

Gene: Nala\_65 Start: 43337, Stop: 43636, Start Num: 2  
Candidate Starts for Nala\_65:  
(Start: 1 @43259 has 11 MA's), (Start: 2 @43337 has 27 MA's),

Gene: Nimrod\_64 Start: 43959, Stop: 44336, Start Num: 1  
Candidate Starts for Nimrod\_64:  
(Start: 1 @43959 has 11 MA's), (Start: 2 @44037 has 27 MA's),

Gene: PhatBacter\_67 Start: 43823, Stop: 44122, Start Num: 2  
Candidate Starts for PhatBacter\_67:  
(Start: 1 @43745 has 11 MA's), (Start: 2 @43823 has 27 MA's),

Gene: Phaux\_65 Start: 43821, Stop: 44120, Start Num: 2  
Candidate Starts for Phaux\_65:  
(Start: 1 @43743 has 11 MA's), (Start: 2 @43821 has 27 MA's),

Gene: Phrux\_60 Start: 42414, Stop: 42713, Start Num: 2  
Candidate Starts for Phrux\_60:  
(Start: 1 @42336 has 11 MA's), (Start: 2 @42414 has 27 MA's),

Gene: Policronamos\_66 Start: 43821, Stop: 44120, Start Num: 2  
Candidate Starts for Policronamos\_66:  
(Start: 1 @43743 has 11 MA's), (Start: 2 @43821 has 27 MA's),

Gene: Rimmer\_64 Start: 43163, Stop: 43462, Start Num: 2  
Candidate Starts for Rimmer\_64:  
(Start: 1 @43085 has 11 MA's), (Start: 2 @43163 has 27 MA's),

Gene: RiverMonster\_63 Start: 42992, Stop: 43291, Start Num: 2  
Candidate Starts for RiverMonster\_63:

(Start: 1 @42914 has 11 MA's), (Start: 2 @42992 has 27 MA's),

Gene: Saints25\_63 Start: 42620, Stop: 42931, Start Num: 1

Candidate Starts for Saints25\_63:

(Start: 1 @42620 has 11 MA's), (Start: 2 @42698 has 27 MA's),

Gene: Sotrice96\_64 Start: 42991, Stop: 43368, Start Num: 1

Candidate Starts for Sotrice96\_64:

(Start: 1 @42991 has 11 MA's), (Start: 2 @43069 has 27 MA's),

Gene: StormChicken\_65 Start: 43693, Stop: 44070, Start Num: 1

Candidate Starts for StormChicken\_65:

(Start: 1 @43693 has 11 MA's), (Start: 2 @43771 has 27 MA's),

Gene: Terminus\_66 Start: 43844, Stop: 44143, Start Num: 2

Candidate Starts for Terminus\_66:

(Start: 1 @43766 has 11 MA's), (Start: 2 @43844 has 27 MA's),

Gene: Tomaszewski\_58 Start: 42143, Stop: 42454, Start Num: 1

Candidate Starts for Tomaszewski\_58:

(Start: 1 @42143 has 11 MA's), (Start: 2 @42221 has 27 MA's),

Gene: Youngblood\_66 Start: 43774, Stop: 44073, Start Num: 2

Candidate Starts for Youngblood\_66:

(Start: 1 @43696 has 11 MA's), (Start: 2 @43774 has 27 MA's),

Gene: xkcd\_66 Start: 43886, Stop: 44263, Start Num: 1

Candidate Starts for xkcd\_66:

(Start: 1 @43886 has 11 MA's), (Start: 2 @43964 has 27 MA's),