



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 296627 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296627 has 55 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Becksu\_73, Adnama\_78, Barbarian\_73, Sassay\_69, Traaww1\_70, PaddyBaddy\_74, Phaja\_72, PhatBacter\_78, RiverMonster\_74, Phrux\_71, Mosby\_70, Palpatine\_76, BigBubba\_74, Bruin\_71, Wiggin\_76, Lilac\_76, Lilizi\_75, BugsBunny\_74, Thresher\_76, Filch\_75, Xandras\_73, Misfit\_75, TeamEdward\_76, Hopey\_74, Policronamos\_77, HanKaySha\_74, Youngblood\_77, Elph10\_74, MPhalcon\_75, Moldemort\_77, Rakim\_75, DrDrey\_74, MISSy\_75, Greep\_78, Miniwave\_69, Terminus\_77, Paperbeatsrock\_73, YassJohnny\_71, Tomaszewski\_69, Maxxinista\_76, Murphy\_74, Contagion\_70, Pumpkin\_77, Tarkin\_73, Thimble\_75, Phaux\_76, Bench\_77, StellaBean\_72, Gator\_72, Asriel\_73, Willez\_69, Pharsalus\_71, Czyszczonek1\_75, Stark\_75
- Track 2 : Budgie\_82

### ***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 49 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adnama\_78, Asriel\_73, Barbarian\_73, Becksu\_73, Bench\_77, BigBubba\_74, Bruin\_71, Budgie\_82, BugsBunny\_74, Contagion\_70, Czyszczonek1\_75, DrDrey\_74, Elph10\_74, Filch\_75, Gator\_72, Greep\_78, HanKaySha\_74, Hopey\_74, Lilac\_76, Lilizi\_75, MISSy\_75, MPhalcon\_75, Maxxinista\_76, Miniwave\_69, Misfit\_75, Moldemort\_77, Mosby\_70, Murphy\_74, PaddyBaddy\_74, Palpatine\_76, Paperbeatsrock\_73, Phaja\_72, Pharsalus\_71, PhatBacter\_78, Phaux\_76, Phrux\_71, Policronamos\_77, Pumpkin\_77, Rakim\_75, RiverMonster\_74, Sassay\_69, Stark\_75, StellaBean\_72, Tarkin\_73, TeamEdward\_76, Terminus\_77, Thimble\_75, Thresher\_76, Tomaszewski\_69, Traaww1\_70, Wiggin\_76, Willez\_69, Xandras\_73, YassJohnny\_71, Youngblood\_77,

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 1:

- Found in 55 of 55 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 49 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adnama\_78 (E), Asriel\_73 (E), Barbarian\_73 (E), Becksu\_73 (E), Bench\_77 (E), BigBubba\_74 (E), Bruin\_71 (E), Budgie\_82 (E), BugsBunny\_74 (E), Contagion\_70 (E), Czyszczo1\_75 (E), DrDrey\_74 (E), Elph10\_74 (E), Filch\_75 (E), Gator\_72 (E), Greep\_78 (E), HanKaySha\_74 (E), Hopey\_74 (E), Lilac\_76 (E), Lilizi\_75 (E), MiSSy\_75 (E), MPhalcon\_75 (E), Maxxinsta\_76 (E), Miniwave\_69 (E), Misfit\_75 (E), Moldemort\_77 (E), Mosby\_70 (E), Murphy\_74 (E), PaddyBaddy\_74 (E), Palpatine\_76 (E), Paperbeatsrock\_73 (E), Phaja\_72 (E), Pharsalus\_71 (E), PhatBacter\_78 (E), Phaux\_76 (E), Phrux\_71 (E), Policronamos\_77 (E), Pumpkin\_77 (E), Rakim\_75 (E), RiverMonster\_74 (E), Sassay\_69 (E), Stark\_75 (E), StellaBean\_72 (E), Tarkin\_73 (E), TeamEdward\_76 (E), Terminus\_77 (E), Thimble\_75 (E), Thresher\_76 (E), Tomaszewski\_69 (E), Traaww1\_70 (E), Wiggin\_76 (E), Willez\_69 (E), Xandras\_73 (E), YassJohnny\_71 (E), Youngblood\_77 (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 49 times for cluster E.

## Gene Information:

Gene: Adnama\_78 Start: 48172, Stop: 48345, Start Num: 1

Candidate Starts for Adnama\_78:

(Start: 1 @48172 has 49 MA's), (2, 48223),

Gene: Asriel\_73 Start: 46509, Stop: 46682, Start Num: 1

Candidate Starts for Asriel\_73:

(Start: 1 @46509 has 49 MA's), (2, 46560),

Gene: Barbarian\_73 Start: 46509, Stop: 46682, Start Num: 1

Candidate Starts for Barbarian\_73:

(Start: 1 @46509 has 49 MA's), (2, 46560),

Gene: Becksu\_73 Start: 48345, Stop: 48524, Start Num: 1

Candidate Starts for Becksu\_73:

(Start: 1 @48345 has 49 MA's), (2, 48396),

Gene: Bench\_77 Start: 47813, Stop: 47992, Start Num: 1

Candidate Starts for Bench\_77:

(Start: 1 @47813 has 49 MA's), (2, 47864),

Gene: BigBubba\_74 Start: 47525, Stop: 47704, Start Num: 1

Candidate Starts for BigBubba\_74:  
(Start: 1 @47525 has 49 MA's), (2, 47576),

Gene: Bruin\_71 Start: 46689, Stop: 46868, Start Num: 1  
Candidate Starts for Bruin\_71:  
(Start: 1 @46689 has 49 MA's), (2, 46740),

Gene: Budgie\_82 Start: 48184, Stop: 48363, Start Num: 1  
Candidate Starts for Budgie\_82:  
(Start: 1 @48184 has 49 MA's), (2, 48235), (3, 48355),

Gene: BugsBunny\_74 Start: 48221, Stop: 48400, Start Num: 1  
Candidate Starts for BugsBunny\_74:  
(Start: 1 @48221 has 49 MA's), (2, 48272),

Gene: Contagion\_70 Start: 46970, Stop: 47149, Start Num: 1  
Candidate Starts for Contagion\_70:  
(Start: 1 @46970 has 49 MA's), (2, 47021),

Gene: Czyszczonek\_75 Start: 47676, Stop: 47855, Start Num: 1  
Candidate Starts for Czyszczonek\_75:  
(Start: 1 @47676 has 49 MA's), (2, 47727),

Gene: DrDrey\_74 Start: 48595, Stop: 48774, Start Num: 1  
Candidate Starts for DrDrey\_74:  
(Start: 1 @48595 has 49 MA's), (2, 48646),

Gene: Elph10\_74 Start: 47174, Stop: 47353, Start Num: 1  
Candidate Starts for Elph10\_74:  
(Start: 1 @47174 has 49 MA's), (2, 47225),

Gene: Filch\_75 Start: 47101, Stop: 47280, Start Num: 1  
Candidate Starts for Filch\_75:  
(Start: 1 @47101 has 49 MA's), (2, 47152),

Gene: Gator\_72 Start: 48006, Stop: 48185, Start Num: 1  
Candidate Starts for Gator\_72:  
(Start: 1 @48006 has 49 MA's), (2, 48057),

Gene: Greep\_78 Start: 48952, Stop: 49131, Start Num: 1  
Candidate Starts for Greep\_78:  
(Start: 1 @48952 has 49 MA's), (2, 49003),

Gene: HanKaySha\_74 Start: 47254, Stop: 47433, Start Num: 1  
Candidate Starts for HanKaySha\_74:  
(Start: 1 @47254 has 49 MA's), (2, 47305),

Gene: Hokey\_74 Start: 47786, Stop: 47965, Start Num: 1  
Candidate Starts for Hokey\_74:  
(Start: 1 @47786 has 49 MA's), (2, 47837),

Gene: Lilac\_76 Start: 47571, Stop: 47750, Start Num: 1  
Candidate Starts for Lilac\_76:

(Start: 1 @47571 has 49 MA's), (2, 47622),

Gene: Lilizi\_75 Start: 47284, Stop: 47463, Start Num: 1

Candidate Starts for Lilizi\_75:

(Start: 1 @47284 has 49 MA's), (2, 47335),

Gene: MISSy\_75 Start: 47675, Stop: 47854, Start Num: 1

Candidate Starts for MISSy\_75:

(Start: 1 @47675 has 49 MA's), (2, 47726),

Gene: MPhalcon\_75 Start: 47668, Stop: 47847, Start Num: 1

Candidate Starts for MPhalcon\_75:

(Start: 1 @47668 has 49 MA's), (2, 47719),

Gene: Maxxinista\_76 Start: 47544, Stop: 47723, Start Num: 1

Candidate Starts for Maxxinista\_76:

(Start: 1 @47544 has 49 MA's), (2, 47595),

Gene: Miniwave\_69 Start: 47213, Stop: 47386, Start Num: 1

Candidate Starts for Miniwave\_69:

(Start: 1 @47213 has 49 MA's), (2, 47264),

Gene: Misfit\_75 Start: 48687, Stop: 48866, Start Num: 1

Candidate Starts for Misfit\_75:

(Start: 1 @48687 has 49 MA's), (2, 48738),

Gene: Moldemort\_77 Start: 47772, Stop: 47945, Start Num: 1

Candidate Starts for Moldemort\_77:

(Start: 1 @47772 has 49 MA's), (2, 47823),

Gene: Mosby\_70 Start: 46970, Stop: 47149, Start Num: 1

Candidate Starts for Mosby\_70:

(Start: 1 @46970 has 49 MA's), (2, 47021),

Gene: Murphy\_74 Start: 48056, Stop: 48235, Start Num: 1

Candidate Starts for Murphy\_74:

(Start: 1 @48056 has 49 MA's), (2, 48107),

Gene: PaddyBaddy\_74 Start: 47268, Stop: 47447, Start Num: 1

Candidate Starts for PaddyBaddy\_74:

(Start: 1 @47268 has 49 MA's), (2, 47319),

Gene: Palpatine\_76 Start: 48646, Stop: 48825, Start Num: 1

Candidate Starts for Palpatine\_76:

(Start: 1 @48646 has 49 MA's), (2, 48697),

Gene: Paperbeatsrock\_73 Start: 47891, Stop: 48064, Start Num: 1

Candidate Starts for Paperbeatsrock\_73:

(Start: 1 @47891 has 49 MA's), (2, 47942),

Gene: Phaja\_72 Start: 47717, Stop: 47890, Start Num: 1

Candidate Starts for Phaja\_72:

(Start: 1 @47717 has 49 MA's), (2, 47768),

Gene: Pharsalus\_71 Start: 47691, Stop: 47864, Start Num: 1  
Candidate Starts for Pharsalus\_71:  
(Start: 1 @47691 has 49 MA's), (2, 47742),

Gene: PhatBacter\_78 Start: 48663, Stop: 48842, Start Num: 1  
Candidate Starts for PhatBacter\_78:  
(Start: 1 @48663 has 49 MA's), (2, 48714),

Gene: Phaux\_76 Start: 48658, Stop: 48837, Start Num: 1  
Candidate Starts for Phaux\_76:  
(Start: 1 @48658 has 49 MA's), (2, 48709),

Gene: Phrux\_71 Start: 47254, Stop: 47433, Start Num: 1  
Candidate Starts for Phrux\_71:  
(Start: 1 @47254 has 49 MA's), (2, 47305),

Gene: Policronamos\_77 Start: 48658, Stop: 48837, Start Num: 1  
Candidate Starts for Policronamos\_77:  
(Start: 1 @48658 has 49 MA's), (2, 48709),

Gene: Pumpkin\_77 Start: 48312, Stop: 48491, Start Num: 1  
Candidate Starts for Pumpkin\_77:  
(Start: 1 @48312 has 49 MA's), (2, 48363),

Gene: Rakim\_75 Start: 47768, Stop: 47947, Start Num: 1  
Candidate Starts for Rakim\_75:  
(Start: 1 @47768 has 49 MA's), (2, 47819),

Gene: RiverMonster\_74 Start: 47832, Stop: 48011, Start Num: 1  
Candidate Starts for RiverMonster\_74:  
(Start: 1 @47832 has 49 MA's), (2, 47883),

Gene: Sassay\_69 Start: 45932, Stop: 46111, Start Num: 1  
Candidate Starts for Sassay\_69:  
(Start: 1 @45932 has 49 MA's), (2, 45983),

Gene: Stark\_75 Start: 47715, Stop: 47894, Start Num: 1  
Candidate Starts for Stark\_75:  
(Start: 1 @47715 has 49 MA's), (2, 47766),

Gene: StellaBean\_72 Start: 47478, Stop: 47651, Start Num: 1  
Candidate Starts for StellaBean\_72:  
(Start: 1 @47478 has 49 MA's), (2, 47529),

Gene: Tarkin\_73 Start: 47900, Stop: 48073, Start Num: 1  
Candidate Starts for Tarkin\_73:  
(Start: 1 @47900 has 49 MA's), (2, 47951),

Gene: TeamEdward\_76 Start: 48605, Stop: 48778, Start Num: 1  
Candidate Starts for TeamEdward\_76:  
(Start: 1 @48605 has 49 MA's), (2, 48656),

Gene: Terminus\_77 Start: 48687, Stop: 48866, Start Num: 1  
Candidate Starts for Terminus\_77:  
(Start: 1 @48687 has 49 MA's), (2, 48738),

Gene: Thimble\_75 Start: 47135, Stop: 47314, Start Num: 1  
Candidate Starts for Thimble\_75:  
(Start: 1 @47135 has 49 MA's), (2, 47186),

Gene: Thresher\_76 Start: 48774, Stop: 48953, Start Num: 1  
Candidate Starts for Thresher\_76:  
(Start: 1 @48774 has 49 MA's), (2, 48825),

Gene: Tomaszewski\_69 Start: 47063, Stop: 47236, Start Num: 1  
Candidate Starts for Tomaszewski\_69:  
(Start: 1 @47063 has 49 MA's), (2, 47114),

Gene: Traaww1\_70 Start: 47338, Stop: 47511, Start Num: 1  
Candidate Starts for Traaww1\_70:  
(Start: 1 @47338 has 49 MA's), (2, 47389),

Gene: Wiggin\_76 Start: 47739, Stop: 47912, Start Num: 1  
Candidate Starts for Wiggin\_76:  
(Start: 1 @47739 has 49 MA's), (2, 47790),

Gene: Willez\_69 Start: 45932, Stop: 46111, Start Num: 1  
Candidate Starts for Willez\_69:  
(Start: 1 @45932 has 49 MA's), (2, 45983),

Gene: Xandras\_73 Start: 47147, Stop: 47326, Start Num: 1  
Candidate Starts for Xandras\_73:  
(Start: 1 @47147 has 49 MA's), (2, 47198),

Gene: YassJohnny\_71 Start: 47102, Stop: 47275, Start Num: 1  
Candidate Starts for YassJohnny\_71:  
(Start: 1 @47102 has 49 MA's), (2, 47153),

Gene: Youngblood\_77 Start: 48614, Stop: 48793, Start Num: 1  
Candidate Starts for Youngblood\_77:  
(Start: 1 @48614 has 49 MA's), (2, 48665),