

Pham 203282



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 203282 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203282 has 23 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Francob\_148
- Track 2 : Moab\_144, Patelgo\_146
- Track 3 : Karp\_140, Belfort\_145
- Track 4 : Westy\_147
- Track 5 : Jada\_148
- Track 6 : Kenrey\_152, Phredrick\_149
- Track 7 : Emma1919\_150
- Track 8 : MeganTheeKilla\_146
- Track 9 : TunaTartare\_145
- Track 10 : KSunshine22\_163, DunneganBoMo\_165, WaddleDee\_164
- Track 11 : Phrampa\_162
- Track 12 : Atuin\_167, ReginaGlobina\_174
- Track 13 : Talia1610\_170, GoldenEssence\_157
- Track 14 : Ellewin\_164
- Track 15 : Rockabye\_173
- Track 16 : Chilliams\_166

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

The start number called the most often in the published annotations is 9, it was called in 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_145, Emma1919\_150, Francob\_148, Jada\_148, Karp\_140, Kenrey\_152, MeganTheeKilla\_146, Moab\_144, Patelgo\_146, Phredrick\_149, TunaTartare\_145,

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

- Westy\_147,

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

- Atuin\_167, Chilliams\_166, DunneganBoMo\_165, Ellewin\_164, GoldenEssence\_157, KSunshine22\_163, Phrampa\_162, ReginaGlobina\_174, Rockabye\_173, Talia1610\_170, WaddleDee\_164,

## Summary by start number:

### Start 6:

- Found in 4 of 23 ( 17.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Westy\_147 (BK1),

### Start 9:

- Found in 12 of 23 ( 52.2% ) of genes in pham
- Manual Annotations of this start: 11 of 12
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Belfort\_145 (BK1), Emma1919\_150 (BK1), Francob\_148 (BK1), Jada\_148 (BK1), Karp\_140 (BK1), Kenrey\_152 (BK1), MeganTheeKilla\_146 (BK1), Moab\_144 (BK1), Patelgo\_146 (BK1), Phredrick\_149 (BK1), TunaTartare\_145 (BK1),

### Start 10:

- Found in 11 of 23 ( 47.8% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin\_167 (FC), Chilliams\_166 (FC), DunneganBoMo\_165 (FC), Ellewin\_164 (FC), GoldenEssence\_157 (FC), KSunshine22\_163 (FC), Phrampa\_162 (FC), ReginaGlobina\_174 (FC), Rockabye\_173 (FC), Talia1610\_170 (FC), WaddleDee\_164 (FC),

## Summary by clusters:

There are 2 clusters represented in this pham: FC, BK1,

Info for manual annotations of cluster BK1:

- Start number 9 was manually annotated 11 times for cluster BK1.

Info for manual annotations of cluster FC:

- Start number 10 was manually annotated 1 time for cluster FC.

## Gene Information:

Gene: Atuin\_167 Start: 111687, Stop: 111881, Start Num: 10

Candidate Starts for Atuin\_167:

(Start: 10 @111687 has 1 MA's), (15, 111795),

Gene: Belfort\_145 Start: 82737, Stop: 82892, Start Num: 9

Candidate Starts for Belfort\_145:

(Start: 9 @82737 has 11 MA's), (12, 82788), (15, 82851),

Gene: Chilliams\_166 Start: 103103, Stop: 103294, Start Num: 10

Candidate Starts for Chilliams\_166:

(4, 103085), (6, 103091), (Start: 10 @103103 has 1 MA's), (13, 103154), (14, 103184), (16, 103238),

Gene: DunneganBoMo\_165 Start: 108594, Stop: 108791, Start Num: 10

Candidate Starts for DunneganBoMo\_165:  
(5, 108579), (Start: 10 @108594 has 1 MA's), (13, 108645), (15, 108702),

Gene: Ellewin\_164 Start: 108698, Stop: 108895, Start Num: 10  
Candidate Starts for Ellewin\_164:  
(5, 108683), (Start: 10 @108698 has 1 MA's), (15, 108806),

Gene: Emma1919\_150 Start: 82354, Stop: 82509, Start Num: 9  
Candidate Starts for Emma1919\_150:  
(1, 82285), (2, 82309), (3, 82324), (Start: 9 @82354 has 11 MA's), (12, 82405), (15, 82468),

Gene: Francob\_148 Start: 82862, Stop: 83017, Start Num: 9  
Candidate Starts for Francob\_148:  
(1, 82793), (2, 82817), (3, 82832), (6, 82856), (7, 82859), (Start: 9 @82862 has 11 MA's), (12, 82913),  
(15, 82976),

Gene: GoldenEssence\_157 Start: 105972, Stop: 106145, Start Num: 10  
Candidate Starts for GoldenEssence\_157:  
(Start: 10 @105972 has 1 MA's),

Gene: Jada\_148 Start: 82145, Stop: 82300, Start Num: 9  
Candidate Starts for Jada\_148:  
(Start: 9 @82145 has 11 MA's), (12, 82196), (15, 82259),

Gene: KSunshine22\_163 Start: 109657, Stop: 109854, Start Num: 10  
Candidate Starts for KSunshine22\_163:  
(5, 109642), (Start: 10 @109657 has 1 MA's), (13, 109708), (15, 109765),

Gene: Karp\_140 Start: 82164, Stop: 82319, Start Num: 9  
Candidate Starts for Karp\_140:  
(Start: 9 @82164 has 11 MA's), (12, 82215), (15, 82278),

Gene: Kenrey\_152 Start: 83476, Stop: 83631, Start Num: 9  
Candidate Starts for Kenrey\_152:  
(2, 83431), (3, 83446), (Start: 9 @83476 has 11 MA's), (12, 83527), (15, 83590),

Gene: MeganTheeKilla\_146 Start: 81670, Stop: 81822, Start Num: 9  
Candidate Starts for MeganTheeKilla\_146:  
(Start: 9 @81670 has 11 MA's), (12, 81721), (14, 81757), (15, 81781),

Gene: Moab\_144 Start: 83836, Stop: 83991, Start Num: 9  
Candidate Starts for Moab\_144:  
(Start: 9 @83836 has 11 MA's), (12, 83887), (15, 83950),

Gene: Patelgo\_146 Start: 84528, Stop: 84683, Start Num: 9  
Candidate Starts for Patelgo\_146:  
(Start: 9 @84528 has 11 MA's), (12, 84579), (15, 84642),

Gene: Phrampa\_162 Start: 114167, Stop: 114343, Start Num: 10  
Candidate Starts for Phrampa\_162:  
(Start: 10 @114167 has 1 MA's), (11, 114188),

Gene: Phredrick\_149 Start: 81811, Stop: 81966, Start Num: 9

Candidate Starts for Phredrick\_149:

(2, 81766), (3, 81781), (Start: 9 @81811 has 11 MA's), (12, 81862), (15, 81925),

Gene: ReginaGlobina\_174 Start: 113570, Stop: 113764, Start Num: 10

Candidate Starts for ReginaGlobina\_174:

(Start: 10 @113570 has 1 MA's), (15, 113678),

Gene: Rockabye\_173 Start: 105115, Stop: 105306, Start Num: 10

Candidate Starts for Rockabye\_173:

(Start: 10 @105115 has 1 MA's), (14, 105196),

Gene: Talia1610\_170 Start: 112415, Stop: 112588, Start Num: 10

Candidate Starts for Talia1610\_170:

(Start: 10 @112415 has 1 MA's),

Gene: TunaTartare\_145 Start: 84538, Stop: 84702, Start Num: 9

Candidate Starts for TunaTartare\_145:

(2, 84490), (3, 84505), (6, 84529), (7, 84532), (8, 84535), (Start: 9 @84538 has 11 MA's), (15, 84658), (16, 84685),

Gene: WaddleDee\_164 Start: 107780, Stop: 107977, Start Num: 10

Candidate Starts for WaddleDee\_164:

(5, 107765), (Start: 10 @107780 has 1 MA's), (13, 107831), (15, 107888),

Gene: Westy\_147 Start: 83690, Stop: 83851, Start Num: 6

Candidate Starts for Westy\_147:

(2, 83651), (3, 83666), (6, 83690), (7, 83693), (Start: 9 @83696 has 11 MA's), (12, 83747), (15, 83810),