

Pham 284065



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 284065 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284065 has 30 members, 13 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 : Jada\_148, DeluluLabubu\_153
- Track 5 : Maupel\_150, Emma1919\_150
- Track 6 : Phredrick\_149, Kenrey\_152
- Track 7 : Westy\_148
- Track 8 : MeganTheeKilla\_146
- Track 9 : TunaTartare\_145
- Track 10 : KSunshine22\_163, WaddleDee\_154, BooTeria\_167, DunneganBoMo\_158, Artu\_160
- Track 11 : Emmetator\_161
- Track 12 : ReginaGlobina\_174, Atuin\_161
- Track 13 : Stewart25555\_158
- Track 14 : Talia1610\_170, GoldenEssence\_156
- Track 15 : Ellewin\_164
- Track 16 : Panchaali\_170
- Track 17 : Rockabye\_173
- Track 18 : Chilliams\_166
- Track 19 : Phrampa\_162

### ***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 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_145, DeluluLabubu\_153, Emma1919\_150, Francob\_148, Jada\_148, Karp\_140, Kenrey\_152, Maupel\_150, MeganTheeKilla\_146, Moab\_144, Patelgo\_146, Phredrick\_149, TunaTartare\_145,

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

- Westy\_148,

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

- Artu\_160, Atuin\_161, BooTeria\_167, Chilliams\_166, DunneganBoMo\_158, Ellewin\_164, Emmetator\_161, GoldenEssence\_156, KSunshine22\_163, Panchaali\_170, Phrampa\_162, ReginaGlobina\_174, Rockabye\_173, Stewart25555\_158, Talia1610\_170, WaddleDee\_154,

### Summary by start number:

Start 5:

- Found in 7 of 30 ( 23.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Emmetator\_161 (FC),

Start 6:

- Found in 4 of 30 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Westy\_148 (BK1),

Start 9:

- Found in 14 of 30 ( 46.7% ) of genes in pham
- Manual Annotations of this start: 11 of 17
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Belfort\_145 (BK1), DeluluLabubu\_153 (BK1), Emma1919\_150 (BK1), Francob\_148 (BK1), Jada\_148 (BK1), Karp\_140 (BK1), Kenrey\_152 (BK1), Maupel\_150 (BK1), MeganTheeKilla\_146 (BK1), Moab\_144 (BK1), Patelgo\_146 (BK1), Phredrick\_149 (BK1), TunaTartare\_145 (BK1),

Start 10:

- Found in 16 of 30 ( 53.3% ) of genes in pham
- Manual Annotations of this start: 5 of 17
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Artu\_160 (FC), Atuin\_161 (FC), BooTeria\_167 (FC), Chilliams\_166 (FC), DunneganBoMo\_158 (FC), Ellewin\_164 (FC), GoldenEssence\_156 (FC), KSunshine22\_163 (FC), Panchaali\_170 (FC), Phrampa\_162 (FC), ReginaGlobina\_174 (FC), Rockabye\_173 (FC), Stewart25555\_158 (FC), Talia1610\_170 (FC), WaddleDee\_154 (FC),

### Summary by clusters:

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

Info for manual annotations of cluster BK1:

- Start number 6 was manually annotated 1 time for 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 5 times for cluster FC.

### Gene Information:

Gene: Artu\_160 Start: 109245, Stop: 109442, Start Num: 10  
Candidate Starts for Artu\_160:  
(5, 109230), (Start: 10 @109245 has 5 MA's), (13, 109296), (15, 109353),

Gene: Atuin\_161 Start: 111687, Stop: 111881, Start Num: 10  
Candidate Starts for Atuin\_161:  
(Start: 10 @111687 has 5 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: BooTeria\_167 Start: 109325, Stop: 109522, Start Num: 10  
Candidate Starts for BooTeria\_167:  
(5, 109310), (Start: 10 @109325 has 5 MA's), (13, 109376), (15, 109433),

Gene: Chilliams\_166 Start: 103103, Stop: 103294, Start Num: 10  
Candidate Starts for Chilliams\_166:  
(4, 103085), (Start: 6 @103091 has 1 MA's), (Start: 10 @103103 has 5 MA's), (13, 103154), (14, 103184), (16, 103238),

Gene: DeluluLabubu\_153 Start: 83559, Stop: 83717, Start Num: 9  
Candidate Starts for DeluluLabubu\_153:  
(Start: 9 @83559 has 11 MA's), (12, 83610), (15, 83673),

Gene: DunneganBoMo\_158 Start: 108594, Stop: 108791, Start Num: 10  
Candidate Starts for DunneganBoMo\_158:  
(5, 108579), (Start: 10 @108594 has 5 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 5 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: Emmetator\_161 Start: 108892, Stop: 109104, Start Num: 5  
Candidate Starts for Emmetator\_161:  
(5, 108892), (Start: 10 @108907 has 5 MA's), (13, 108958), (15, 109015),

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

Gene: GoldenEssence\_156 Start: 105972, Stop: 106145, Start Num: 10  
Candidate Starts for GoldenEssence\_156:  
(Start: 10 @105972 has 5 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 5 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: Maupel\_150 Start: 82316, Stop: 82471, Start Num: 9  
Candidate Starts for Maupel\_150:  
(1, 82247), (2, 82271), (3, 82286), (Start: 9 @82316 has 11 MA's), (12, 82367), (15, 82430),

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: Panchaali\_170 Start: 109408, Stop: 109602, Start Num: 10  
Candidate Starts for Panchaali\_170:  
(Start: 10 @109408 has 5 MA's), (15, 109516),

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 5 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 5 MA's), (15, 113678),

Gene: Rockabye\_173 Start: 105115, Stop: 105306, Start Num: 10  
Candidate Starts for Rockabye\_173:  
(Start: 10 @105115 has 5 MA's), (14, 105196),

Gene: Stewart25555\_158 Start: 109692, Stop: 109886, Start Num: 10  
Candidate Starts for Stewart25555\_158:  
(Start: 10 @109692 has 5 MA's), (15, 109797),

Gene: Talia1610\_170 Start: 112415, Stop: 112588, Start Num: 10  
Candidate Starts for Talia1610\_170:  
(Start: 10 @112415 has 5 MA's),

Gene: TunaTartare\_145 Start: 84538, Stop: 84702, Start Num: 9  
Candidate Starts for TunaTartare\_145:  
(2, 84490), (3, 84505), (Start: 6 @84529 has 1 MA's), (7, 84532), (8, 84535), (Start: 9 @84538 has 11 MA's), (15, 84658), (16, 84685),

Gene: WaddleDee\_154 Start: 107780, Stop: 107977, Start Num: 10  
Candidate Starts for WaddleDee\_154:  
(5, 107765), (Start: 10 @107780 has 5 MA's), (13, 107831), (15, 107888),

Gene: Westy\_148 Start: 83690, Stop: 83851, Start Num: 6  
Candidate Starts for Westy\_148:  
(2, 83651), (3, 83666), (Start: 6 @83690 has 1 MA's), (7, 83693), (Start: 9 @83696 has 11 MA's), (12, 83747), (15, 83810),