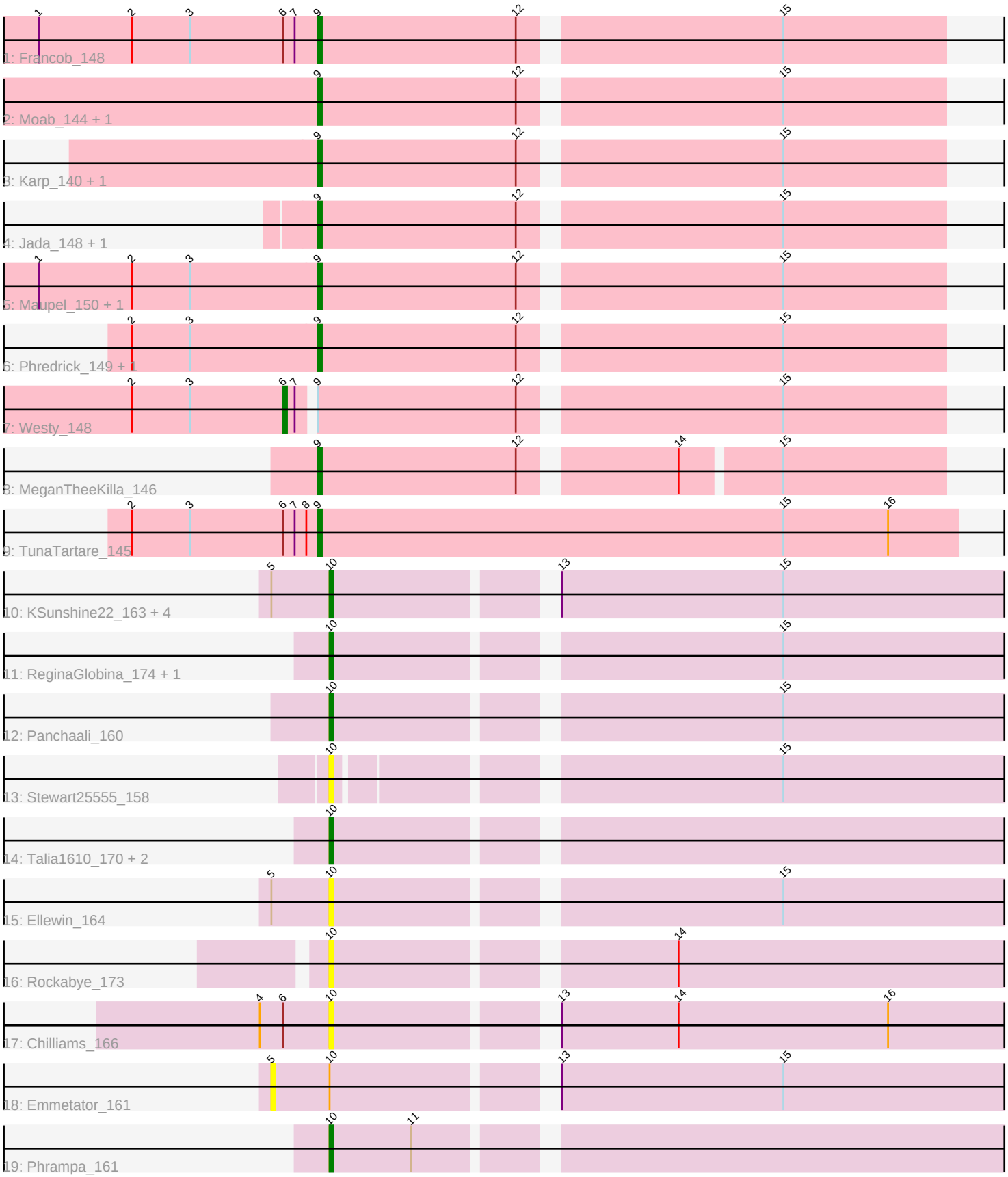
Pham 291403


1: Francob_148
2: Moab_144 + 1
3: Karp_140 + 1
4: Jada_148 + 1
5: Maupel_150 + 1
6: Phredrick_149 + 1
7: Westy_148
8: MeganTheeKilla_146
9: TunaTartare_145
10: KSunshine22_163 + 4
11: ReginaGlobina_174 + 1
12: Panchaali_160
13: Stewart25555_158
14: Talia1610_170 + 2
15: Ellewin_164
16: Rockabye_173
17: Chilliams_166
18: Emmetator_161
19: Phrampa_161

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 291403 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291403 has 31 members, 10 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_152
• 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 : ReginaGlobina_174, Atuin_161
• Track 12 : Panchaali_160
• Track 13 : Stewart25555_158
• Track 14 : Talia1610_170, Patbob_167, GoldenEssence_156
• Track 15 : Ellewin_164
• Track 16 : Rockabye_173
• Track 17 : Chilliams_166
• Track 18 : Emmetator_161
• Track 19 : Phrampa_161

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 12 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Belfort_145, DeluluLabubu_152, 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_160, Patbob_167, Phrampa_161, ReginaGlobina_174, Rockabye_173, Stewart25555_158, Talia1610_170, WaddleDee_154,

Summary by start number:

Start 5:
• Found in 7 of 31 (22.6%) 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 31 (12.9%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Westy_148 (BK1),

Start 9:
• Found in 14 of 31 (45.2%) of genes in pham
• Manual Annotations of this start: 12 of 21
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Belfort_145 (BK1), DeluluLabubu_152 (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 17 of 31 (54.8%) of genes in pham
• Manual Annotations of this start: 8 of 21
• Called 94.1% 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_160 (FC), Patbob_167 (FC), Phrampa_161 (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 12 times for cluster BK1.

Info for manual annotations of cluster FC:
•Start number 10 was manually annotated 8 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 8 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 8 MA's), (15, 111795),

Gene: Belfort_145 Start: 82737, Stop: 82892, Start Num: 9
Candidate Starts for Belfort_145:
(Start: 9 @82737 has 12 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 8 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 8 MA's), (13, 103154), (14, 103184), (16, 103238),

Gene: DeluluLababu_152 Start: 83559, Stop: 83717, Start Num: 9
Candidate Starts for DeluluLababu_152:
(Start: 9 @83559 has 12 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 8 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 8 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 12 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 8 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 12 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 8 MA's),

Gene: Jada_148 Start: 82145, Stop: 82300, Start Num: 9
Candidate Starts for Jada_148:
(Start: 9 @82145 has 12 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 8 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 12 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 12 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 12 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 12 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 12 MA's), (12, 83887), (15, 83950),

Gene: Panchaali_160 Start: 109408, Stop: 109602, Start Num: 10
Candidate Starts for Panchaali_160:
(Start: 10 @109408 has 8 MA's), (15, 109516),

Gene: Patbob_167 Start: 112594, Stop: 112767, Start Num: 10
Candidate Starts for Patbob_167:
(Start: 10 @112594 has 8 MA's),

Gene: Patelgo_146 Start: 84528, Stop: 84683, Start Num: 9
Candidate Starts for Patelgo_146:
(Start: 9 @84528 has 12 MA's), (12, 84579), (15, 84642),

Gene: Phrampa_161 Start: 114167, Stop: 114343, Start Num: 10
Candidate Starts for Phrampa_161:
(Start: 10 @114167 has 8 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 12 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 8 MA's), (15, 113678),

Gene: Rockabye_173 Start: 105115, Stop: 105306, Start Num: 10
Candidate Starts for Rockabye_173:
(Start: 10 @105115 has 8 MA's), (14, 105196),

Gene: Stewart25555_158 Start: 109692, Stop: 109886, Start Num: 10
Candidate Starts for Stewart25555_158:
(Start: 10 @109692 has 8 MA's), (15, 109797),

Gene: Talia1610_170 Start: 112415, Stop: 112588, Start Num: 10
Candidate Starts for Talia1610_170:
(Start: 10 @112415 has 8 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 12 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 8 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 12 MA's), (12, 83747), (15, 83810),